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STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

CONSTRUCTION CODE COMMISSION

Ottawa Building, Upper Level, Conference Room #4 611 West Ottawa Street Lansing, Michigan 48933

AGENDA

July 12, 2017 9:00 a.m.

- * Due to the number of matters on the agenda, the Commission may take a recess for lunch.
- 1. Call to Order and Determination of Quorum
- 2. Approval of Agenda (Pages 1-2)
- 3. Closed Session Consultation with Counsel
- 4. End Closed Session Public Session to start at approximately 9:30 a.m.
- 5. Approval of Minutes April 12, 2017 (Pages 3-9)
- 6. New BusinessA. Checklist for Applications to Administer and Enforce (Page 10)W. Benoit
- 7. Unfinished Business

RICK SNYDER

GOVERNOR

- A. Appeals to Commission, MCL 125.1516
 - i. Jonathan Boskovich (Charter Oaks Development/Island Lakes Development) vs. City of Taylor (Pages 11-43)
- B. Petition for Approval/Certificate of Acceptability, MCL 125.1521
 - i. Liberty Pumps Inc., Liberty Pumps ELV OilTector Elevator Sump Pump Systems (Pages 44-128)
 - ii. Northern Concrete Pipe, Inc., Precast Concrete Grease Interceptors (Pages 129-223)
 - iii. Waste Water Heat Transfer Systems, Heat Wave (Liquid to Liquid Heat Recovery Unit) (Pages 224-234)
 - iv. Huber Engineered Woods, LLC, ZIP System Roof and Wall Sheathing (Pages 235-263)
- C. Applications to Administer and Enforce, MCL 125.1508b
 - i. City of Highland Park, Building, Electrical, Mechanical and Plumbing (Pages 264-349)

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call Sara Leiby at (517) 241-9303 at least 10 working days before the event.

TURNEY

W. Benoit

SHELLY EDGERTON

DIRECTOR

T. Warren

Construction Code Commission Agenda July 12, 2017 Page 2 of 2

- ii. Tuscola Township, Building, Electrical, Mechanical and Plumbing (Pages 350-508)
- iii. Village of Burlington, Building, Electrical, Mechanical and Plumbing (Pages 509-532)
- 8. Applications to Administer and Enforce, MCL 125.1508b
 - A. Village of Emmett, Building, Electrical, Mechanical and Plumbing (Pages 533-552)
 - B. City of Grand Blanc, Electrical, Mechanical and Plumbing (Pages 553-677)
 - C. Moorland Township, Mechanical (Pages 678-698)
 - D. Village of White Pigeon, Building, Electrical, Mechanical and Plumbing (Pages 699-797)
 - E. Village of Marcellus, Building, Electrical, Mechanical and Plumbing (Pages 699-789 and Pages 798-800)
 - F. Village of Centreville, Mechanical and Plumbing (Pages 699-789 and Pages 801-805)
 - G. Volinia Township, Building, Electrical, Mechanical and Plumbing (Pages 699-789 and Pages 806-810)
 - H. Township of Rollin, Mechanical and Plumbing (Pages 811-830)
- 9. Appeals to Commission, MCL 125.1516
 - A. Brandon Sundberg (Greenhills School) vs. State of Michigan (Pages 831-840)
 - B. David Gassen (Kalamazoo Covenant Academy) vs. State of Michigan (Pages 841-868)
- Petition for Approval/Certificate of Acceptability, MCL 125.1521
 A. Penner Manufacturing Inc., Cascade Comfort Bathing System (Pages 869-916)
- 11. Bureau Report

K. Lambert

- 12. Public Comment
- 13. 2017 Meeting Date October 11, 2017
- 14. Adjournment



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

CONSTRUCTION CODE COMMISSION

Ottawa Building, Upper Level Conference Room #4 611 West Ottawa Street Lansing, Michigan 48933

MINUTES

April 12, 2017 9:30 a.m.

MEMBERS PRESENT

Mr. William Benoit, Jr., Chairperson Mr. Thomas Baldwin Mr. Frederick Butters Mr. James Cripps Mr. Thomas Erdman Mr. Adam Krouse Mr. Kenneth Misiewicz Mr. Roger Papineau Mr. Matthew Reno Mr. Donald Staley Dr. Joseph Sucher

DEPARTMENT PERSONNEL ATTENDING

Mr. Keith Lambert, Director, BCC
Ms. Alesha Gensler, Deputy Director, BCC
Ms. LeeAnn Allaire, Manager, Administrative Services Division, BCC
Ms. Dianne Barmes, Manager, Licensing & Complaints Division, BCC
Mr. Joseph Madziar, Chief, Plumbing Division, BCC
Mr. Dean Austin, Chief, Electrical Division, BCC
Mr. Kevin Kalakay, Chief, Mechanical Division, BCC
Mr. Jonathon Paradine, Assistant Chief, Mechanical Division, BCC
Ms. Tracie Pack, Department Analyst, Administrative Services Division, BCC
Ms. Sara Leiby, Secretary, Administrative Services Division, BCC

OTHERS IN ATTENDANCE

- Mr. Ronald Bailey, Village of Onsted
- Mr. Ronald Bellaire, Volinia Township
- Ms. Cindy Carver, Carver Construction Company
- Mr. Bill Denner, Assistant Attorney General
- Mr. John Dobberteen, St. Joseph County
- Mr. Tod Fackler, Tuscola Township

P.O. BOX 30254 • LANSING, MICHIGAN 48909

MEMBERS ABSENT Mr. Anthony D'Ascenzo

Mr. Michael Boss Mr. William Duffield Mr. Daryl Gallant Mr. Greg Pollock Mr. Matt Zurbrick Construction Code Commission April 12, 2017 Page 2 of 7

Mr. Ray Hausbeck, Saginaw Township Mr. William Hordyk, City of Grand Rapids Mr. Jeff Hugo, Tuscola Township Ms. Wendy Jean-Buhrer, City of Grand Blanc Mr. Phillip Kerns, Tuscola Township Mr. Doug Kuhlman, St. Joseph and Cass Counties Mr. Glenn Lindsey, SAFEbuilt, Village of Burlington Mr. Bruce Nickel, Village of Onsted Mr. Ron Ritchey, National Fire Sprinkler Association Ms. Yvette Robinson, City of Highland Park Mr. Corey Roblee, International Code Council Mr. Randy Schmeling, St. Joseph County Mr. Lee Schwartz, Home Builders Association of Michigan Mr. Ted Sczepanski, City of Grand Blanc Mr. Michael Setzer, Tuscola Township Ms. Bethany Smith, City of Grand Blanc Mr. Rob Thall, Tuscola Township Mr. Jack Williams, Building Official, City of Highland Park Mr. Pete Wood, Rooter MD

1. CALL TO ORDER AND DETERMINATION OF QUORUM

Chairperson Benoit called the meeting to order at 9:30 a.m. A quorum was present at that time.

2. <u>APPROVAL OF AGENDA</u>

A **MOTION** was made by Commissioner Misiewicz and **SECONDED** by Commissioner Baldwin to approve the agenda. **MOTION CARRIED**.

3. <u>APPROVAL OF MINUTES</u>

A MOTION was made by Commissioner Cripps and SECONDED by Commissioner Sucher to approve the minutes for the January 11, 2017 meeting. MOTION CARRIED.

4. ADMINISTRATION & ENFORCEMENT COMPLAINTS

A. City of Ann Arbor

The City of Ann Arbor notification of complaint requesting compliance regarding the requirements for construction code appeals and the corresponding response were presented to the Commission.

B. City of Portage

Construction Code Commission April 12, 2017 Page 3 of 7

The City of Portage notification of complaint requesting compliance regarding the certification requirement for fire alarm installers and the corresponding response were presented to the Commission.

C. City of Saint Clair Shores

The City of Saint Clair Shores notification of complaint requesting compliance regarding registration fees for licensed mechanical contractors/registering mechanical contractors as electrical contractors without being properly licensed was presented to the Commission. Mr. Lambert informed the Commission that the City of Saint Clair Shores indicated the fee has been corrected to comply with the law and follow up documentation will be requested.

D. City of Troy

The City of Troy notification of complaint requesting compliance regarding the city adopting amendments to the 2012 International Fire Code (IFC) that directly conflict with the 2012 Michigan Building Code (MBC) and the corresponding response were presented to the Commission.

Chairperson Benoit requested clarification on whether the fire code can only be used in part when a specific section is referenced in the building code.

Mr. Lambert advised that the Bureau is currently requesting advice from counsel regarding reference standards and codes and whether the entire code is adopted if referenced. Per Chairperson Benoit's request, the Bureau will follow-up with the City of Troy regarding non-compliance of the amendment to Section 907.6.5.3 of the 2012 IFC.

5. <u>RECEIPT OF APPLICATIONS TO ADMINISTER AND ENFORCE, MCL</u> <u>125.1508b</u>

The Commission accepts receipt of the following applications to administer and enforce:

- A. Village of Emmett, Building, Electrical, Mechanical and Plumbing
- **B.** City of Grand Blanc, Electrical, Mechanical and Plumbing
- C. Moorland Township, Mechanical
- D. Village of White Pigeon, Building, Electrical, Mechanical and Plumbing
- E. Village of Marcellus, Building, Electrical, Mechanical and Plumbing
- F. Village of Centreville, Mechanical and Plumbing
- 6. <u>PETITION FOR APPROVAL/CERTIFICATE OF ACCEPTABILITY, MCL</u> <u>125.1521</u>

A. Huber Engineered Woods, LLC, ZIP System Roof and Wall Sheathing

Mr. Ken Hix's petition application for a certificate of acceptability from Huber Engineered Woods, LLC for ZIP System Roof and Wall Sheathing was presented to the Commission. Mr. Ken Hix was not present for the review.

Mr. Bill Denner, Assistant Attorney General, advised that there is language in the statute that may be construed as conflicting regarding the matter.

Following discussion, a **MOTION** was made by Commissioner Staley and **SECONDED** by Commissioner Erdman to postpone consideration of petition applications for product approval, such as this, to a future date based on the recommendation forthcoming from the Attorney General's Office. **MOTION CARRIED.**

7. <u>UNFINISHED BUSINESS</u>

A. Administration and Enforcement Complaint Reponses

Mr. Lambert provided the City of Trenton's response to notification of complaint and notified the Commission that the notifications sent to the below municipalities did not solicit a response. The language in the notification will be corrected to request response by specified deadline.

- i. City of Belleville No Response
- ii. Village of Carleton No Response
- iii. City of Inkster No Response
- iv. City of Trenton
- v. City of Dearborn No Response

B. Review of Applications to Administer and Enforce, MCL 125.1508b

i. Village of Onsted, Mechanical and Plumbing

Mr. Bruce Nickel, Building Official, and Mr. Ronald Bailey, Village President, presented the Village of Onsted's Application to Administer and Enforce to the Commission.

Following discussion, a **MOTION** was made by Commissioner Baldwin and **SECONDED** by Commissioner Misiewicz to approve the Village of Onsted's Application to Administer and Enforce effective May 1, 2017. **MOTION CARRIED.**

ii. City of Highland Park, Building, Electrical, Mechanical and Plumbing

Construction Code Commission April 12, 2017 Page 5 of 7

> Mr. Jack Williams, Building Official, and Ms. Yvette Robinson, Department of Community and Economic Development Director, presented the City of Highland Park's Application to Administer and Enforce to the Commission.

> Following discussion, a **MOTION** was made by Commissioner Baldwin and **SECONDED** by Commissioner Misiewicz to postpone consideration of the City of Highland Park's Application to Administer and Enforce to allow time for the applicant to provide additional documentation reflecting the proposed program budget, a construction board of appeals, and applications are brought up to statutory requirements. **MOTION CARRIED.**

iii. Fawn River Township, Mechanical

Mr. Doug Kuhlman, Zoning Administrator and Code Compliance Officer, Mr. Randy Schmeling, Building Official, Mr. John Dobberteen, Plumbing Official, and Mr. Ronald Bellaire, Electrical Official, presented Fawn River Township's Application to Administer and Enforce to the Commission.

Following discussion, a **MOTION** was made by Commissioner Baldwin and **SECONDED** by Commissioner Erdman to approve Fawn River Township's Application to Administer and Enforce effective May 1, 2017. **MOTION CARRIED.**

iv. Village of Colon, Plumbing

Mr. Doug Kuhlman, Zoning Administrator and Code Compliance Officer, Mr. Randy Schmeling, Building Official, Mr. John Dobberteen, Plumbing Official, and Mr. Ronald Bellaire, Electrical Official, presented the Village of Colon's Application to Administer and Enforce to the Commission.

Following discussion, a **MOTION** was made by Commissioner Baldwin and **SECONDED** by Commissioner Erdman to approve the Village of Colon's Application to Administer and Enforce effective May 1, 2017. **MOTION CARRIED.**

v. Tuscola Township, Building, Electrical, Mechanical and Plumbing

Mr. Michael Setzer, Building Official, and Mr. Tod Fackler, Supervisor, presented Tuscola Township's Application to Administer and Enforce to the Commission. Mr. Setzer provided additional documentation at the meeting in response to the letter dated February 11, 2017.

Following discussion, a **MOTION** was made by Commissioner Baldwin and **SECONDED** by Commissioner Papineau to postpone consideration of Tuscola Township's Application to Administer and Enforce until the July 12,

2017 meeting to allow time for the Commission to review the additional documentation submitted. **MOTION CARRIED.**

vi. Village of Burlington, Building, Electrical, Mechanical and Plumbing

Mr. Glenn Lindsey, SAFEbuilt, presented the Village of Burlington's Application to Administer and Enforce to the Commission.

Following discussion, a **MOTION** was made by Commissioner Misiewicz and **SECONDED** by Commissioner Cripps to postpone consideration of the Village of Burlington's Application to Administer and Enforce until the July 12, 2017 meeting to allow time for the applicant to provide additional documentation. **MOTION CARRIED.**

8. <u>NEW BUSINESS</u>

A. Formal Interpretation Request

Mr. Lambert presented the Commission a formal interpretation request submitted on March 20, 2017 from Pete Wood, Rooter MD Plumbing & Heating.

Chairperson Benoit explained that Mr. Wood should direct his request to the local construction board of appeals and then can appeal the local construction board of appeals' decision to the Commission. The Bureau should be notified if a local municipality does not have a construction board of appeals as required by statute.

B. Review and Approval of Training Programs Discussion, MCL 339.6007

Mr. Lambert inquired if the Commission would like to be involved with review of content of training programs.

Following discussion, it was determined that the Commission will assist with the review when the Bureau expresses concern regarding a program.

9. BUREAU REPORT

Mr. Lambert provided information on the following:

- A. Barrier Free Design Complaint Process
- B. Building & School Officials Letter
- C. CE Broker Announcement
- **D.** Mechanical Examination Notification
- E. SAA Program/HUD

10. PUBLIC COMMENT

Construction Code Commission April 12, 2017 Page 7 of 7

- **A.** Mr. Lee Schwartz, Home Builders Association of Michigan, expressed concern that the City of Ann Arbor does not have a local construction board of appeals and requested the Bureau to investigate further.
- **B.** Ms. Wendy Jean-Buhrer, City of Grand Blanc, commented that she will submit additional documentation electronically for the City of Grand Blanc's Application to Administer and Enforce and will see the Commission in July.
- **C.** Commissioner Papineau requests for the Application to Administer and Enforce to be revised based on the concerns expressed earlier in the meeting and for a Bureau organizational chart.

11. <u>2017 MEETING DATES</u>

The Commission is scheduled to meet at 9:30 a.m. at 611 W. Ottawa, Lansing, MI 48933 in Upper Level Conference Room 4 on July 12, 2017 and October 11, 2017.

12. ADJOURNMENT

A **MOTION** was made by Commissioner Erdman and **SECONDED** by Commissioner Cripps to adjourn the meeting at 12:26 p.m. **MOTION CARRIED**.

The following is a list of items that were agreed to by the State Construction Code Sub-Committee regarding applications to enforce codes:

- 1) Reason for application. This would include indicating how permit applications and inspections are currently being handled and how this will be improved by changing who is enforcing the codes.
- 2) Written documentation identifying statutory/rule/ordinance/code they wish to assume.
- Identify affected parties. This would include what impact this will have on the agency currently enforcing the codes and how the change will improve the service to the end user.
- 4) Registration of governmental subdivision and enforcing agency personnel. Indicate that the Building Official is employed by the municipality and include copies of any contracts with private contractors.
- 5) Indicate makeup of Construction Board of Appeals members and provide process and forms for appeals.
- 6) List of administrative personnel and services provided including FOIA, document retention schedule and location of records/documents.
- 7) Provide drafts of all public facing documents including permits, correction/violation notices, certificate of occupancy, notice to appear or show cause and stop work orders.
- 8) Indicate your process for establishing reasonable fees.
- 9) Provide draft of proposed fees for permits, plan reviews, inspections, certificated of use and occupancy and registration of licenses.
- 10) Provide copies of draft budget for the department. If a private company is being used and a percentage of the fees collected will be returned to the municipality provide budget indicating how that money will be used.



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

April 3, 2017

Keith Boc, Director Public Services City of Taylor 23555 Goddard Road Taylor, MI 48180

RE: Construction Code Commission

Dear Mr. Boc:

The Bureau of Construction Codes (BCC) received your written request for the Construction Code Commission (CCC) to re-hear the appeal submitted by Mr. Jonathan Boskovich, Infinity Construction Services. Mr. Boskovich appealed the City of Taylor's November 22, 2016, Construction Board of Appeals' denial of a variance from the requirements of the 2015 Michigan Residential Code, Section R311.3.

Your letter indicates you found discrepancies between what information the CCC based its decision on and what was part of the documentation the City of Taylor Board of Appeals utilized as a basis for its decision,

Therefore, we are requesting the City of Taylor submit, pursuant to 1972 PA 230, MCL 125.1514(4), copies of the exact documentation used by the Taylor Board of Appeals to render its decision of the November 22, 2016 appeal submitted by Mr. Boskovich. Upon receipt of the complete Taylor CBA appeal hearing record of decision you and the appellant will be notified as to the date the appeal will be heard by the State Construction Code Commission.

If you have any questions regarding the issues outlined above, please feel free to contact me at (517) 241-6479.

Sincerely,

Dianne Barmes, Administrative Manager Licensing and Complaints Division

Providing for Michigan's Safety in the Bulit Environment

LARA is an equal opportunity employer Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bco • Telephone (517) 241-9302 • Fax (517) 241-9570

CONSTRUCTION BOARD OF APPEALS – MINUTES TUESDAY, NOVEMBER 22, 2016

A special meeting of the Construction Board of Appeals meeting was held on Tuesday, November 22, 2016, at 23555 Goddard, Taylor, Michigan. Chairman Joe Bradanyi called the meeting to order at 5:25 p.m.

Attending: Joe Bradanyi, Steve Favors, Joe Vig

Excused: Tony Aday, Mark Styles

Also Attending: Jamie McCarty, Manager of Public Services, Jesse Harrington, Building Inspector, Keith Boc, Director of Public Services, Dave Greco, Legal Counsel

Motion by Favors, supported by Vig Resolved: To approve the agenda as submitted. Unanimously carried 11.10-16

Jon Boskovich of Infinity Homes presented his appeal to revoke the requirement to provide a stair, guard rail and landing system off the rear doorwalls of the homes under construction in the Charter Oaks Subdivision, Taylor, Michigan.

More specifically the homes located at: 11617 and 11659 Golfcrest Dr, 26632, 26626, 11889, 11935, 11977, 11848 and 11740 Lake Pointe Dr.

Interested Parties: Matt Sakalian, Infinity Homes

Motion by Favors, supported by Vig

Resolved: To deny the request to revoke the requirement to provide a stair, guard rail and landing system off the rear doorwalls of the homes under construction in the Charter Oaks Subdivision because the request doesn't comply with section R.311: Means of Egress, as stated in the 2015 Michigan Residential Code.

Unanimously carried 11.11-16

Motion by Favors, Supported by Vig Resolved: That the meeting be adjourned. Unanimously carried 11.12-16

The meeting was adjourned at 6:16 p.m.

Joe Bradanyi, Chairman

Cynthia A Bower, Clerl

CONSTRUCTION BOARD OF APPEALS – AGENDA Thursday, November 22, 2016

A special meeting of the Construction Board of Appeals will be held on Tuesday, November 22, 2016, at 5:15 p.m. at the City of Taylor Municipal Offices located at 23555 Goddard, Taylor, Michigan.

Board Members:Tony Aday, Joe Bradanyi, Steve Favors, Mark Styles, Joe VigAlso Attending:Keith Boc, Director of Public Services, Jesse Harrington, Building

Inspector, Dave Greco, Legal Counsel

- 1. Roll Call
- 2. Approval of agenda
- 3. Infinity Homes, Charter Oaks Subdivision

Petitioner is requesting to revoke the requirement to provide a stair, guard rail and landing system off the rear doorwalls of the home under construction in the Charter Oaks Subdivision.

4. Other Business

5. Adjournment

and the second
MADE FOR YOU
Date: 11 1 2016

Construction Board of Appeals Application Building Department 23555 Goddard Taylor, MI 48180 (734) 287-6550 www.cityoftaylor.com

> **Residential Filing Fee: \$100** Commercial; \$500 Receipt No. [BA 100]

Code under which the appeal is sought Building

🗆 Mechanical

D Plumbing

Owner Information:

	Name TAFINITY	HOME	-5			
Address 42.400 GRAND RIVER AVE.						
	City NOVI	State M	1	Zip 48375	E-mail ENFINITY HOMESCOR	LOM
	Phone 1 248-449-800	ઝપ	Phone 2		Fax 248-449-8136]

Applicant/Authorized Agent Information:

Electrical

Name INFINITY HOMES						
Address 42400 GEAND RIVER. AVE.						
City NOVI	State MT-	Zip 48375	E-mail TATAMA HOMES COP	202		
Phone 1 248-449-E	3084 Phone 2	2	Fax 248-449-8136			

Location where appeal is sought:

Address	ALL	HOMES	LOCATES IN	CHARTER OAKS	UNDER	LONSTRUCTION
Zoning						
Property I	D #					

Instructions for Construction Board of Appeals Application Application must be completed in full before applying to the Building Department.

Provide 10 Copies of the following at the time of submitting application:

- □ Application
- D Proof of ownership

Building Data: all information requested from your building permit

Permit Holder: all information requested for the contractor named on your permit □ Summary of Appeal addressed to the board including the following:

Code: provide the code under which your appeal is sought.

Code: section(s), provide the code section(s) that are the subject of the appeal Desired Relief: describe remedy being sought

Basis of Appeal: provide a statement why requested remedy should be granted

Yes, I authorize representatives of the City of Taylor to access the property for the (Initial) purpose of investigation associated with this application.

Affidavit of Petitioner

The undersigned petitioner, being duly sworn, deposes and says the statements and information herewith submitted are true and correct to the best of his or her knowledge, information and belief; further, that s/he is authorized to submit this petition.

Printed name of petitioner INFINITY HOMES	
Signature of petitioner L. A. Zymu	
Interest of property	

Subscribed and sworn to before me on this _____ day of November_____ 2016

Elizabeth See Card	7-27-2083
Notary Public, County of Wayne, State of Mic Macondu ele 11-1-14	higan Elizabeth Lee Carlonimistion Expires Notary Public, state of Michigan County of Macomb My Commission Expires 07-27-2022 Acting in the County of Callaca

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This section to be completed by the Construction Board of Appeals	
Disposition by the City of Taylor Construction Board of Appeals	TAYLOR MADE FOR YOU
· ·	
	- mr
	a
Hearing Date:	
Code(s) which appeal is sought:	
Code Section(s) that are the subject of the appeal;	
Desired Relief;	
□ Approved	
D Denied	
	•

Signature Construction Board of Appeals

Print Name



42400 Grand River, Suite 112, Novi, MI 48375 PH: 248-449-8084 / Fax: 248-449-8136

www.Infinityhomescorp.com

MEMO

To: The City of Taylor Construction Board of From: Infinity Construction Services, LLC

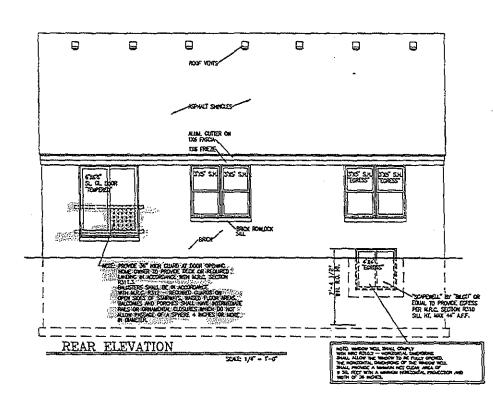
	Appeals		·····	
Fax:		Date:	11/1/2016	
Phon	e:	Pages	1	
Re:	Building Code R311.3-Charter Oaks of	CC:		
	Taylor			

□ For Urgent □ For Review □ Please Comment □ Please Reply

It is our understanding that the municipal code official is requiring our company to provide a stair, guard rail and landing system off the rear doorwalls of our homes resulting in unnecessary costs to the home. The code official, Jesse Harrington, is interpreting the code section R311.3 in the 2015 Michigan Residential Code to support his interpretation. Given what we have researched and discussed with several engineers, architects as well Michigan Home Builders Association, the inspectors interpretation is incorrect and doesn't have merit. The simple reasoning is that when a doorwall is barricaded or prevented from opening (i.e. installing a block in the doorwall to prevent it from opening all the way if not at all, it effectively becomes a window. Furthermore, other means egress are prevalent within the dwelling as required by the code, there is no need for a landing. It is important to note that we have been building within the city for the last four years now and after building over 30 homes in that time in the City of Taylor. It is also important to note that this is not required across any other of 14 municipalities we are currently building in.

We would like to formal make an appeal with the local construction board to have our case heard and reviewed so that some actual evidence of the code can provide a basis of why this is being requested.

Jonathan Boskovich Director of Operations



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42400 Grand River, Suite 112, Novi, MI 48375 PH: 248-449-8084 / Fax: 248-449-8136

www.Infinityhomescorp.com

MEMO

To: The City of Taylor Construction Board of From: Infinity Construction Services, LLC

Appeals				
Fax:		Date: 11/1/2016		
Phon	e:	Pages	1	
Re:	Building Code R311.3-Charter Oaks of	CC:		
	Taylor			

□ For Urgent □ For Review □ Please Comment □ Please Reply

Please see below the list homes sites Infinity Homes still has under construction

Unit 46 11617 Golfcrest Unit 47 11659 Golfcrest Unit 52 26632 Lake Pointe Unit 53 26626 Lake Pointe Unit 57 11889 Lake Pointe Unit 58 11935 Lake Pointe Unit 61 11902 Lake Pointe Unit 63 11848 Lake Pointe Unit 80 11740 Golfcrest

Jonathan Boskovich **Director of Operations**



Jamle McCarty <jmccarty@cl.taylor.mi.us>

RE: REVISED Construction Board of Appeals Application

1 message

Jon Boskovich <jboskovich@infinityhomescorp.com> To: Jamie McCarty <jmccarty@ci.taylor.mi.us> Tue, Nov 8, 2016 at 4:37 PM

Jamie,

The list of homes that we are taking to the Construction Board of Appeals is noted below,

- 11617 Golfcrest
- 11659 Golfcrest
- 26632 Lake Pointe
- 26626 Lake Pointe
- 11889 Lake Pointe
- 11935 Lake Pointe
- 11977 Lake Pointe
- 11848 Lake Ponte
- 11740 Lake Pointe

You can also use this as my approval if any of the board members need to access any of the above noted properties for investigation purposes.

Please let me know if you need anything else.

Jonathan Boskovich

Project Manager

INFINITY & CO.

42400 Grand River Ave., Suite 112

Novi MI 48375

6 Alterations or repairs of existing basements. An ency escape and rescue opening is not required where is basements undergo alterations or repairs.

ception: New sleeping rooms created in an existing *sement* shall be provided with emergency escape and cue openings in accordance with Section R310.1.

SECTION R311 MEANS OF EGRESS

1 Means of egress. Dwellings shall be provided with a of egress in accordance with this section. The means ess shall provide a continuous and unobstructed path of all and horizontal egress travel from all portions of the ng to the required egress door without requiring travel h a garage. The required egress door shall open directly public way or to a yard or court that opens to a public

2 Door type and size. The required exit door shall be a inged door not less than 3 feet (914 mm) in width and 6 inches (2032 mm) in height. Other exterior hinged or 3 doors shall not be less than 24 inches (609 mm) in and 6 feet, 6 inches (1980 mm) in height,

.30518

11.2.1 Interior doors, Interior doors shall be not less n 24 inches: (609 mm) in width and 6 feet, 6 inches. 80 mm) in height.

Exception: Doors to areas less than 10 square feet of floor area.

.30518

A R311.3

3 Floors and landings at exterior doors. There shall inding or floor on each side of each exterior door. The of each landing shall be not less than the door served, landing shall have a dimension of not less than 36 (914 mm) measured in the direction of travel. The is exterior landings shall not exceed 1/4 unit vertical in ts horizontal (2 percent).

ception: Exterior balconies less than 60 square feet (5.6 and only accessible from a door are permitted to have uiding less than 36 inches (914 mm) measured in the iction of travel.

11.3.1 Floor elevations at the required egress doors. dings or finished floors at the required egress door 11 be not more than 11/2 inches (38 mm) lower than the of the threshold.

Exception: The landing or floor on the exterior side that be not more than $7^{3}/_{4}$ inches (196 mm) below the op of the threshold provided the door does not swing over the landing or floor.

Where exterior landings or floors serving the required ss cloor are not at grade, they shall be provided with ess to grade by means of a ramp in accordance with tion R311.8 or a stairway in accordance with Section 11.7.

ICHIGAN RESIDENTIAL CODE

R311.3.2 Floor elevations for other exterior doors; Doors other than the required egress door shall be provided with landings or floors not more than 71, inches (196 mm) below the top of the threshold.

Exception: A top landing is not required where a stairway of not more than two risers is located on the exterior side of the door, provided that the door does not swing over the stairway,

R311.3.3 Storm and screen doors, Storm and screen doors shall be permitted to swing over exterior stairs and landings.

R311.4 Vertical egress. Bgress from habitable levels include ing habitable attics and *basements* not provided with an egress door in accordance with Section R311.2 shall be by a ramp in accordance with Section R311.8 or a stairway in accordance with Section R311.7.

R311,5 Construction.

R311.5.1 Attachment, Exterior landings, decks, balconies, stairs and similar facilities shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-support, ing. Attachment shall not be accomplished by use of toenalls or nails subject to withdrawal.

R311.6 Hallways. The width of a hallway shall be not less than 3 feet (914 mm).

R311.6.4 Modular ramps. Modular ramp systems approved pursuant to the act are not required to comply with the requirements of Section R403.1.4 of the code.

R 408:30518

R311.7 Stairways,

R311.7.1 Width, Stairways shall be not less than 36 inches (914 mm) in clear width at all points above the permitted handrall height and below the required headroom height. Handralls shall not project more than $4^{1/2}$ inches (114 mm) on either side of the stairway and the clear width of the stairway at and below the handrall height, including treads and landings, shall be not less than $31^{1/2}$. Inches (787 mm) where a handrall is installed on one side and 27 inches (698 mm) where handralls are provided on both sides.

Exception: The width of spiral stairways shall be in accordance with Section R311.7.10.1.

R311.7.2 Headroom, The headroom in stairways shall be not less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stairway.

Exceptionst

- 1. Where the nosings of treads at the side of a flight extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom not more than $4^3/_4$ inches (121 mm).
- 2. The headroom for spiral stairways shall be in accordance with Section R3117,101.

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R311.7.12 Ships ladders. Ships ladders shall not be used as an element of a means of egress. Ships ladders shall be permitted provided that a required means of egress stairway or ramp serves the same space at each adjoining level or where a means of egress is not required. The clear width at and below the handralls shall be not less than 20 inches.

R311.7.12.1 Treads of ships ladders. Treads shall have a depth of not less than 5 inches (127 mm). The tread shall be projected such that the total of the tread depth plus the nosing projection is not less than 81/2, inches (216 mm). The riser height shall be not more than 91/2 inches (241 mm).

R311.7.12.2 Handralls of ships ladders, Handralls shall be provided on both sides of ships ladders and shall comply with Sections R311.7.8.2 to R311.7.8.4. Handrall height shall be uniform, not less than 30 inches (762 mm) and not more than 34 inches (864 mm).

R311.8 Ramps.

R311.8.1 Maximum slope. Ramps serving the egress door required by Section R311.2 shall have a slope of not more than 1 unit vertical in 12 units horizontal (8.3-percent slope). All other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5 percent).

Exception: Where it is technically infeasible to comply because of site constraints, ramps shall have a slope of not more than 1 unit vertical in 8 units horizontal (12)5 percent).

R311.8.2 Landings required. There shall be a floor or landing at the top and bottom of each ramp, where doors open onto ramps, and where ramps change directions. The width of the landing perpendicular to the ramp slope shall be not less than 36 inches (914 mm).

R311.8,3 Handralls required. Handralls shall be provided on not less than one side of ramps exceeding a slope of one unit vertical in 12 units horizontal (8.33-percent slope).

R311.8.3.1 Height. Handrall height, measured above the finished surface of the ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

R311.8.3.2 Grip size, Handrails on ramps shall comply with Section R311.7.8.3.

R311.8.3.3 Continuity. Handrails where required on ramps shall be continuous for the full length of the ramp. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than $1/_2$ inches (38 mm) between the wall and the handrails.



R312.1 Guards. *Guards* shall be provided in accordance with Sections R312.1.1 through R312.1.4.

R312.1.1 Where required, Guards shall be located along open-sided walking surfaces, including stairs, ramps and

Iandings, that are located more than 30 liches (762 mm) measured vertically to the floor or grade below at any point within 36 incluse (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.1.2 Height, Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm). In height as measured vertically above the adjacent walking surface of the line connecting the leading edges of the treads.

Exceptions

- Guards on the open sides of states shall have a height not less than 34 inches (864 mm) mea sured vertically from a line connecting the lead ing edges of the treads.
- 2. Where the top of the guard serves as a handrall on the open sides of stalrs, the top of the guard shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) as measured vertically from a line connecting the leading edges of the treads.

R312.1.3 Opening limitations. Required guards shall not have openings from the walking surface to the required guard height that allow passage of a sphere 4 inches (102 mm) in diameter.

Exceptions

- The triangular openings at the open side of stair, formed by the riser, tread and bottom rall of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
- Guards on the open side of stairs shall not have openings that allow passage of a sphere 4%, inches (111 mm) in diameter.

R312.1.4 Exterior plastic composite guards. Plastic composite exterior guards shall comply with the requires ments of Section R317.4.

R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

R312.2.1 Window sills, in dwelling units, where the top of the sill of an operable window opening is located less than 24 inches: (610 mm) above the finished floor and greater than 72 inches: (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:

- Operable windows with openings that will not allow a 4-inch-diameter (102 mm) splice to pass through the opening where the opening is in its largest, opened position.
- Operable windows that are provided with window fall: prevention devices that comply with ASTM F2090.
- Operable windows that are provided with window opening control devices that comply with Scotlon R312.2.2.

R312.2.2 Window opening control devices. Window opening control devices shall comply with ASTM F2090.

2018 MICHIGAN RESIDENTIAL CODE

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that is not less than $1\frac{3}{4}$ inches (45 mm) below the tallest portion of the profile. The minimum width of the handrail above the recess shall be $1\frac{3}{4}$ inches (32 mm) to a maximum of $2\frac{3}{4}$ inches (70 mm). Edges shall have a minimum radius of 0.01 inch (0.25 mm).

R311.7.7.4 Exterior wood/plastic composite handrails. Wood/plastic composite handrails shall comply with the provisions of Section R317.4.

R311.7.8 Illumination. All stairs shall be provided with illumination in accordance with Section R303.6,

R311.7.9 Special stair ways. Spiral stair ways and bulkhead enclosure stairways shall comply with all requirements of Section R311.7 except as specified below.

R311.7.9.1 Spiral stairways. Spiral stairways are permitted, provided the minimum clear width at and below the handrail shall be 26 inches (660 mm) with each treadhaving a $71/_2$ -inch (190 mm) minimum tread depth at 12 inches (914 mm) from the narrower edge. All trends shall be identical, and the rise shall be no more than $91/_2$ inches (241 mm). A minimum headroom of 6 feet 6 inches (1982 mm) shall be provided,

R311.7.9.2 Bulkhead enclosure stairways, Stairways serving bulkhead enclosures, not part of the required building egress, providing access from the outside grade level to the basement shall be exempt from the requirements of Sections R311.3 and R311.7 where the maximum height from the basement finished floor level to grade adjacent to the stairway does not exceed 8 feet (2438 mm) and the grade level opening to the stairway is covered by a bulkhead enclosure with hinged doors or other approved means.

R311,8 Ramps,

R311.8.1 Maximum slope. Ramps shall have a maximum slope of 1 unit vertical in 12 units horizontal (8,3 percent slope).

Exception: Where it is technically infeasible to comply because of site constraints, ramps may have a maximum slope of one unit vertical in eighthorizontal (12:5 percent slope),

R311.8.2 Landings required. A minimum 3-foot by 3-foot (914 mm by 914 mm) landing shall be provided:

- 1. At the top and boltom of ramps,
- 2. Where doors open onto ramps.
- 3. Where ramps change direction,

R311.8.3 Handralls required. Handralls shall be provided on at least one side of all ramps exceeding a slope of one unit vertical in 12 units horizontal (8.33-percent slope).

R311.8.3.1 Height. Handrall height, measured above the finished surface of the ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

R311.8.3.2 Grip size. Handrails on ramps shall comply with Section R311.7.7.3.

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R311.8.3.3 Continuity. Handrails where required on ramps shall be continuous for the full length of the ramp. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 1/2, tinches. (38 mm) between the wall and the handrails.



R312.1 Where required. *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point wildlin 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required *guards* at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed scating, of the line connecting the leading edges of the treads.

Exceptions

- Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.
- Where the top of the guard also serves as a handrall on the open sides of stairs, the top of the guard shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 incluss (102 mm) in diameter.

Exceptions

- The triangular openings at the open side of a staly formed by the riser, tread and boltom rall of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
- Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4% inohes (111 mm) in diameter.

R312.4 Exterior woodplastic composite guards. Woodplastic composite guards shall comply with the provisions of Section R317.4.

SECTION R313 AUTOMATIC FIRE SPRINKLER SYSTEMS

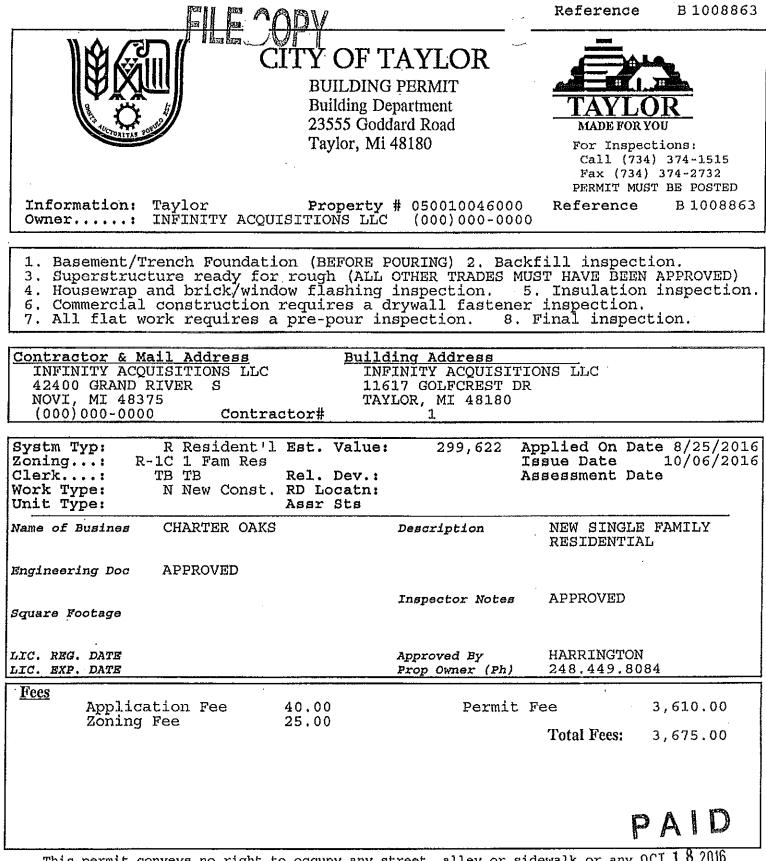
R313.1 Design and installation. Where installed, automatic residential fire sprinkler systems shall conform to the design and installation requirements of the national fire protection association (NFPA) standard 13D or P290411.

R 408.30539a

2009 MICHIGAN RESIDENTIAL CODE

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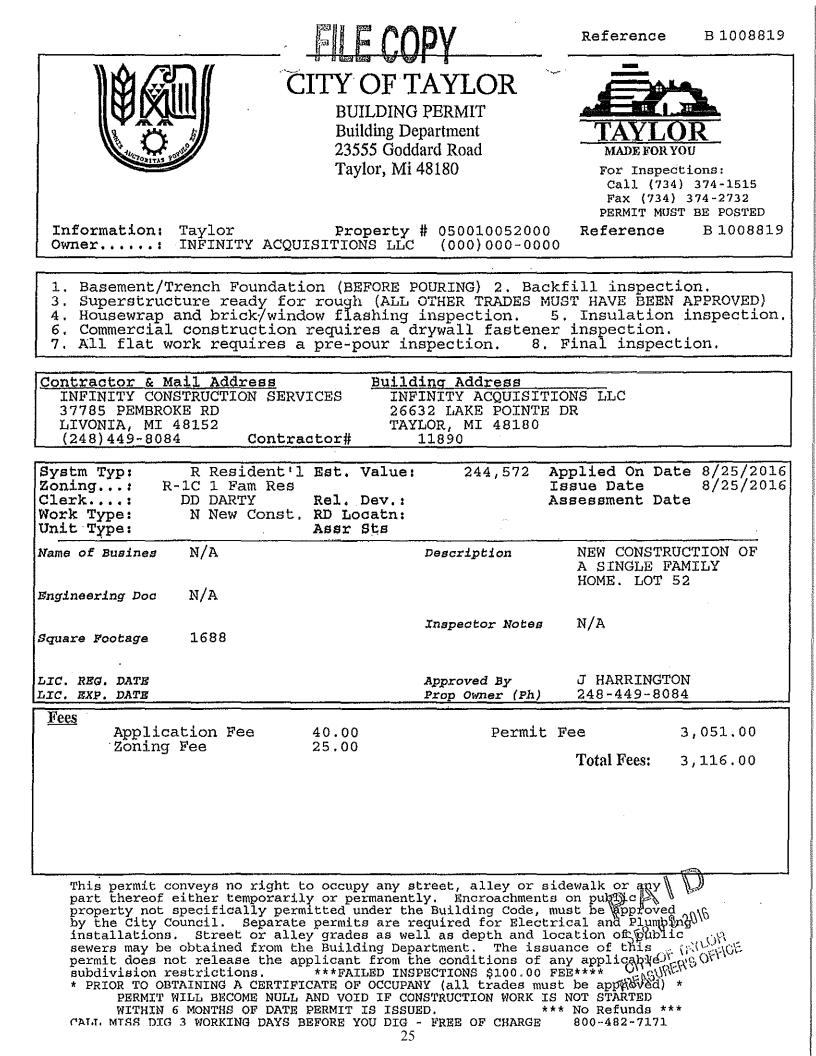
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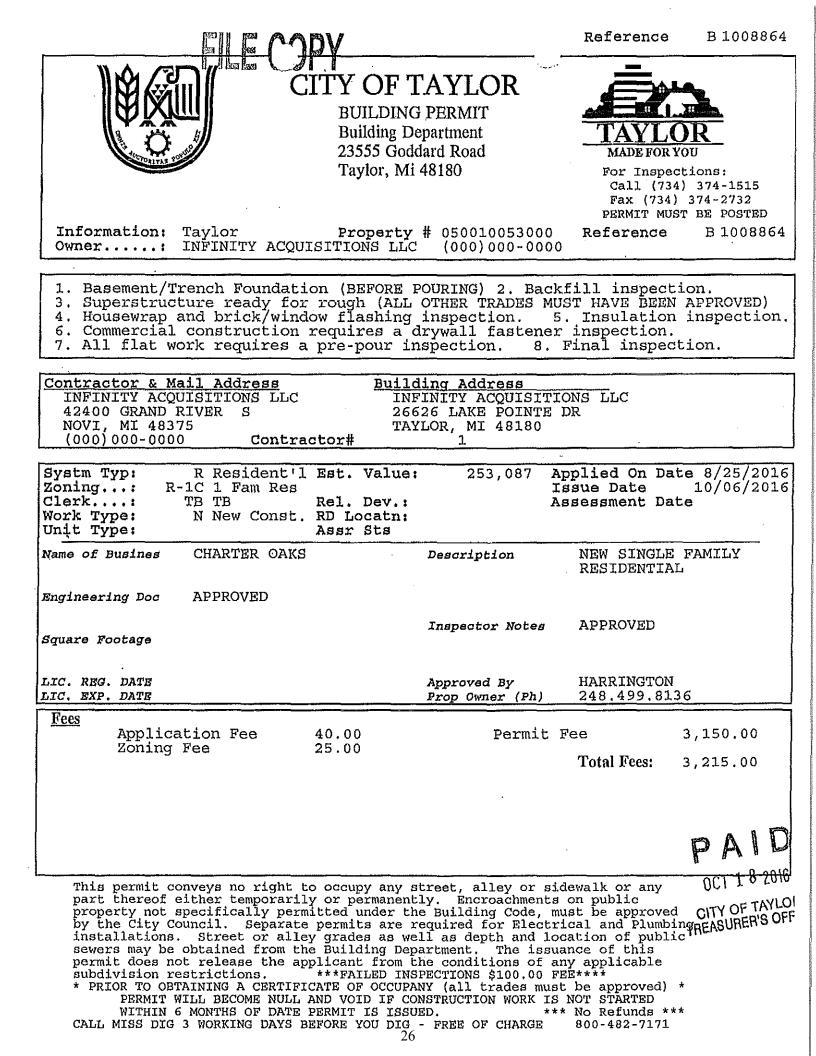


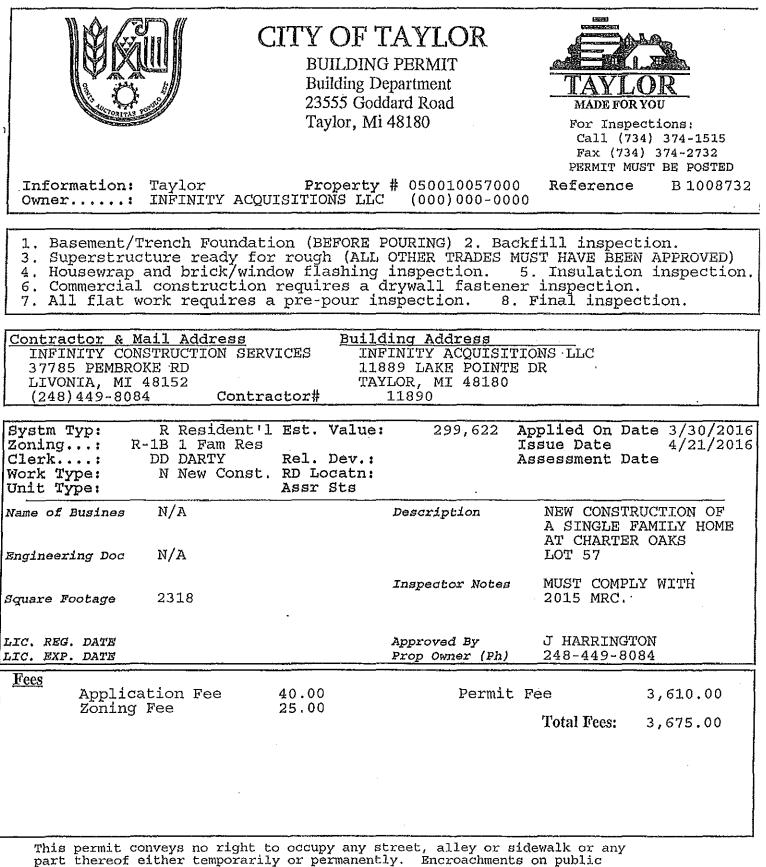
This permit conveys no right to occupy any street, alley or sidewalk or any OCT 1 8 2016 part thereof either temporarily or permanently. Encroachments on public property not specifically permitted under the Building Code, must be approved of TAYLOR by the City Council. Separate permits are required for Electrical and Plumping TAYLOR installations. Street or alley grades as well as depth and location of public sewers may be obtained from the Building Department. The issuance of this permit does not release the applicant from the conditions of any applicable subdivision restrictions. ***FAILED INSPECTIONS \$100.00 FEE**** * PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANY (all trades must be approved) * PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN 6 MONTHS OF DATE PERMIT IS ISSUED. *** No Refunds *** CALL MISS DIG 3 WORKING DAYS BEFORE YOU DIG - FREE OF CHARGE 800-482-7171

		Reference B 1008745
	Y OF TAYLOR BUILDING PERMIT Building Department 23555 Goddard Road Taylor, Mi 48180	TAYLOR TAYLOR MADE FOR YOU For Inspections: Call (734) 374-1515 Fax (734) 374-2732 PERMIT MUST BE POSTED
Information: Taylor Owner: INFINITY ACQUISI	Property # 050010047000 TIONS LLC (000)000-000	Reference B 1008745
1. Basement/Trench Foundation 3. Superstructure ready for ro 4. Housewrap and brick/window 6. Commercial construction rec 7. All flat work requires a pr Contractor & Mail Address INFINITY CONSTRUCTION SERVICE 37785 PEMBROKE RD LIVONIA, MI 48152 (248)449-8084 Contracto	ough (ALL OTHER TRADES M flashing inspection. quires a drywall fastene re-pour inspection. 8. <u>Building Address</u> ES INFINITY ACQUISIT 11659 GOLFCREST D TAYLOR, MI 48180	UST HAVE BEEN APPROVED) 5. Insulation inspection. r inspection. Final inspection.
Systm Typ: R Resident'l Es	st. Value: 299,622	Applied On Date 4/12/2016
Clerk: DD DARTY Re Work Type: N New Const. RE	el. Dev.:	Issue Date 5/13/2016 Assessment Date
Clerk: DD DARTY Re Work Type: N New Const. RE	el. Dev.: 2 D Locatn:	Issue Date 5/13/2016
Clerk: DD DARTY Re Work Type: N New Const. RE Unit Type: As Name of Busines N/A Engineering Doc N/A Square Footage 2318 SQ FT LIC. REG. DATE *4" MIN GRANULA	AR Approved By	Issue Date 5/13/2016 Assessment Date NEW SINGLE FAMILY RESIDENTIAL HOME LOT 47 MUST COMPLY W/2015 MRC.*HARD WIRED SMOKE, FOUNDATION REQUIRED* J HARRINGTON
Clerk: DD DARTY Re Work Type: N New Const. RL Unit Type: As Name of Busines N/A Engineering Doc N/A Square Footage 2318 SQ FT LIC. REG. DATE *4" MIN GRANULA LIC. EXP. DATE BASE REQ FOR CO Fees Application Fee 40	AR Approved By	Issue Date 5/13/2016 Assessment Date NEW SINGLE FAMILY RESIDENTIAL HOME LOT 47 MUST COMPLY W/2015 MRC.*HARD WIRED SMOKE, FOUNDATION REQUIRED* J HARRINGTON 248-449-8084

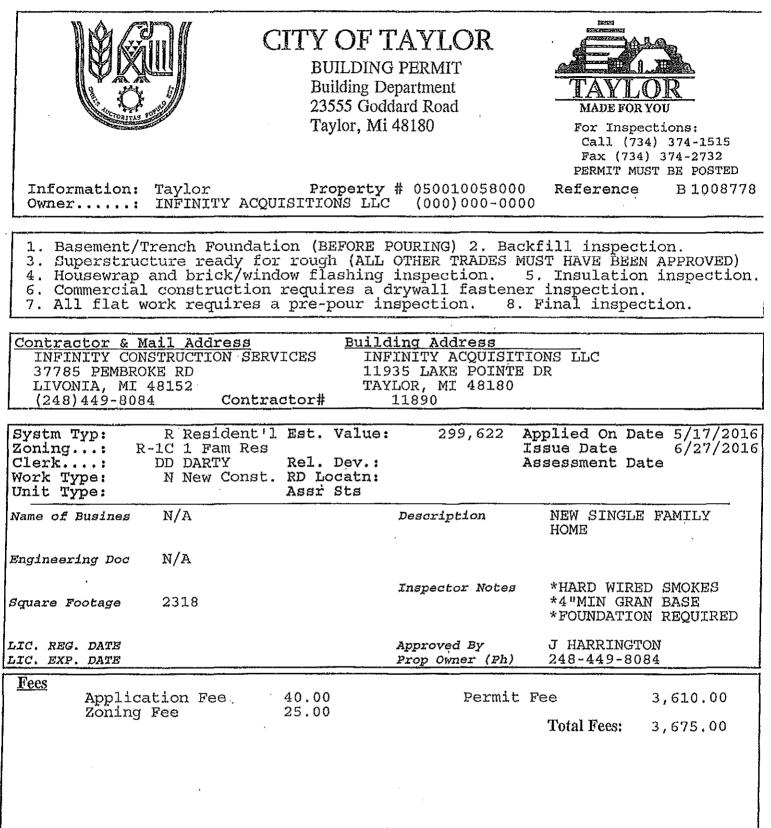
This permit conveys no right to occupy any street, alley or sidewalk or any part thereof either temporarily or permanently. Encroachments on public property not specifically permitted under the Building Code, must be approved by the City Council. Separate permits are required for Electrical and Plumbing installations. Street or alley grades as well as depth and location of public sewers may be obtained from the Building Department. The issuance of this permit does not release the applicant from the conditions of any applicable subdivision restrictions. ***FAILED INSPECTIONS \$100.00 FEE**** * PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANY (all trades must be approved) * PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN 6 MONTHS OF DATE PERMIT IS ISSUED. *** No Refunds *** CALL MISS DIG 3 WORKING DAYS BEFORE YOU DIG - FREE OF CHARGE 800-482-7171





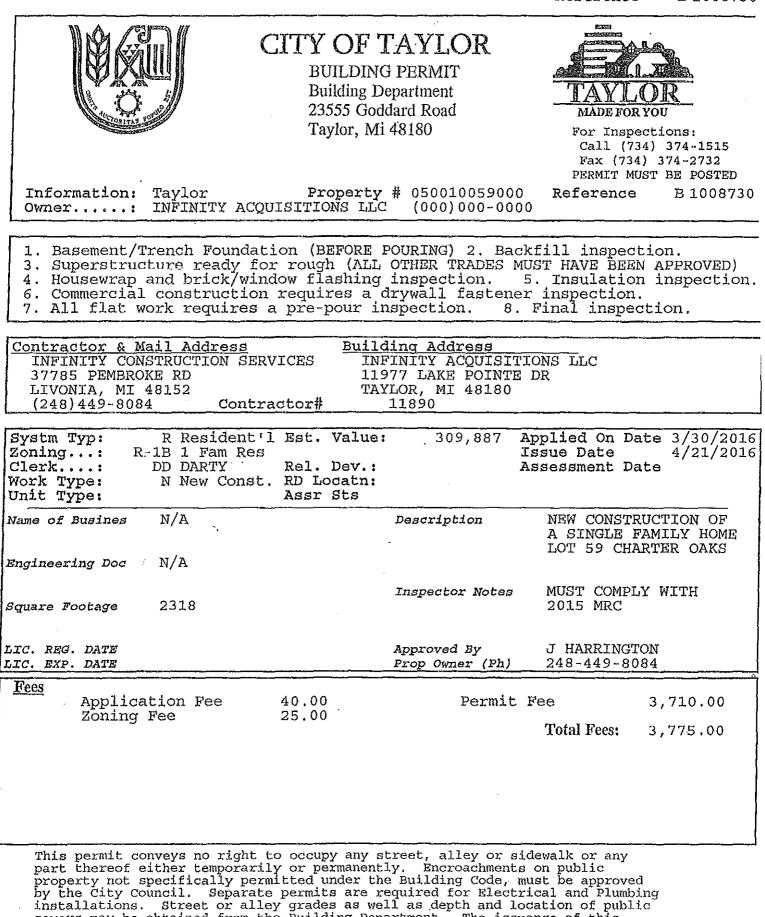


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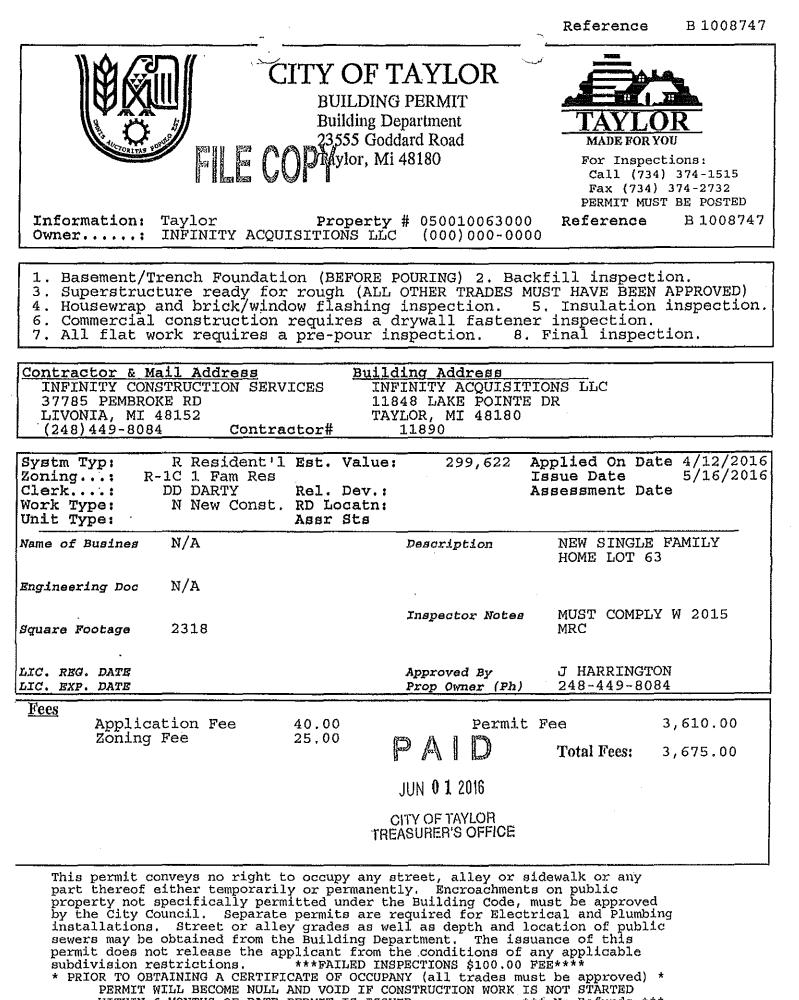


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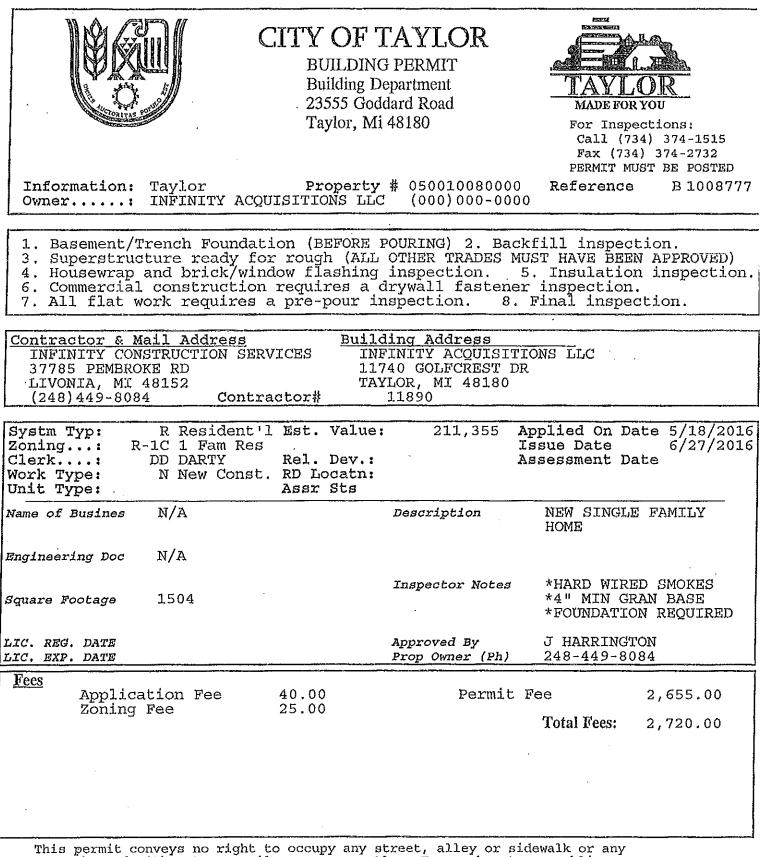
CALL MISS DIG 3 WORKING DAYS BEFORE YOU DIG8 - FREE OF CHARGE 800-482-7171



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PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN 6 MONTHS OF DATE PERMIT IS ISSUED. *** No Refunds *** CALL MISS DIG 3 WORKING DAYS BEFORE YOU DIG 30



This permit conveys no right to occupy any street, alley or sidewalk or any part thereof either temporarily or permanently. Encroachments on public property not specifically permitted under the Building Code, must be approved by the City Council. Separate permits are required for Electrical and Plumbing installations. Street or alley grades as well as depth and location of public sewers may be obtained from the Building Department. The issuance of this permit does not release the applicant from the conditions of any applicable subdivision restrictions. ***FAILED INSPECTIONS \$100.00 FEE**** * PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANY (all trades must be approved) * PERMIT WILL BECOME NULL AND VOID IF CONSTRUCTION WORK IS NOT STARTED WITHIN 6 MONTHS OF DATE PERMIT IS ISSUED. *** No Refunds *** CALL MISS DIG 3 WORKING DAYS BEFORE YOU DIG1- FREE OF CHARGE 800-482-7171 RICK SOLLARS Mayor

CYNTHIA A. BOWER City Clerk

EDWARD L. BOURASSA Treasurer

City of Taylor

23555 GODDARD ROAD TAYLOR, MICHIGAN 48180

PHONE: (734) 287-6550 (Menu) - FAX: (734) 374-1343 www.cityoftaylor.com

March 20, 2017

Keith Lambert, Director, BCC Construction Code Commission Department of Licensing & Regulatory Affairs PO Box 30254 Lansing, MI 48909

Re: Construction Code Commission

Dear Mr. Lambert

The City of Taylor reviewed draft minutes from the website for the Construction Code Commission meeting conducted January 11, 2017. The City of Taylor believes it is unreasonable to make a decision without the attendance of a representative from the City of Taylor to provide critical information for a variance affecting our community.

The City of Taylor was not notified of the public meeting held on January 11, 2017. An appeal was conducted by the Construction Code Commission regarding a decision made by the City of Taylor Construction Board of Appeals concerning Jonathan Boskovich of Infinity Homes Services.

When the City of Taylor contacted LeeAnn¹ Allaire, Manager of the Administrative Services Division, to ask why we were not informed of the meeting she provided a written response saying, "no call to Taylor was documented," and "My newly created division took over all of the bureau board and commission meetings recently and we are still working out some processes. Going forward all interested parties will receive written notification." Although we appreciate what she is going to provide moving forward it does not address the decision already made without notification of the meeting to the City of Taylor.

When we reviewed the draft minutes from the January Commission meeting there were discrepancies, for instance, the minutes documented a variance by the Commission that was not part of the Taylor Board of Appeals decision that included the entire development as well as a separate development not mentioned to the Taylor CBA.

The application to the City of Taylor CBA was specific to nine (9) home addresses and the State Construction Code Commission granted a variance for two entire developments. The minutes have been corrected to reflect the nine (9) homes but that is not what was acted on by the Commission. How can your department change what was actually acted upon in the meeting by

CITY COUNCIL

LINDA PARKER-CRAIG Chairwoman

ANGELA CROFT Chairwoman Pro-Tem

DANIEL A. BZURA ALEX GARZA CHARLES JOHNSON TIMOTHY WOOLLEY JOHN MYERS just changing the minutes? This is suspicious and leaves us wondering what facts were presented to the Commission in the absence of the City of Taylor. The act also requires the Commission to provide the City of Taylor the reason for their decision which was not received.

The fact is the City of Taylor was not notified of the public meeting, was not provided with a reason for the decision to overturn the Taylor Construction Board of Appeals and the Construction Code Commission acted on an appeal that was not part of the Taylor appeal.

Because of these discrepancies the City of Taylor is not confident with the states procedure for open government and following their own rules. The City of Taylor is requesting the Construction Code Commission correct this problem by rescheduling this appeal with the City of Taylor being notified in writing so all parties can attend and provide the facts to the Commission so a fair legal decision can be made.

Sincerely,

Keith Boc Director of Public Services

cc: Alesha Gensler, Deputy Director, BCC LeeAnn Allaire, Manager, Administrative Services Division, BCC CCC, Ottawa Building, Lansing, Michigan

Diames Barmes

RECEIVED

MAR 28 2017

Bureau of Construction Codes

Application for Construction Code Appeal Michigan Department of Licensing and Regulatory Affairs **Bureau of Construction Codes** P.O. Box 30255, Lansing, MI 48909 517-241-9303 www.michigan.gov/bcc

Agency Use Only

Application Fee: \$500.00 Authority: 1972 PA 230 LARA is an equal opportunity employer/program, Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. Failure to provide the information may result in deniel of your request. Penalty:

Note: The applicant is responsible for all fees applicable to this application.

CODE UNDER WHICH APPEAL IS SOUGHY							
Building (141)			echanical (131)	🖾 Plumbing (99)			
APPLICANT (Note: All correspondence will be sent to this address) NAME OF COMPANY							
Infinity Construction Service	s						
APPLICANT NAME			······································	TELEPHONE NUMBER (Include Area Code)			
Infinity Construction Service	(248) 449-8084						
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)			
42400 Grand River AVE STE 112	2 Novi	MI	48375	(248) 449-8136			

Instructions for Application for Construction Code Appeal

Facility Information: Provide all information requested.

Building Data: Provide all information requested from the building permit or plan review.

Permit Holder: Provide the information requested for the entity named on the permit.

Building Owner: Provide the information requested for the entity that owns the building, which is the subject of the appeal.

Building Permit Authority: Provide all information requested for the enforcing agency.

Summary of Appeal: Code; provide the code under which an appeal is sought. Code Section(s); provide the code section(s) that are the subject of the appeal. Desired Relief; describe the remedy being sought. Basis of Appeal; provide a brief statement why the requested remedy should be granted.

Note: If the decision being appealed is that of a local Board of Appeals, this application and the filing fee must be received in our office within 10 business days of the filing of the decision of the local board of appeals in accordance with Section 16 of 1972 PA 230.

U.S. Postal Service

Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building appeals to Plan **Review Division**) P.O. Box 30255 Lansing, MI 48909

Courier Other Than U.S. Postal Service Mi Dept. of Licensing and Regulatory Alfairs MI Dept. of Licensing and Regulatory Affairs **Bureau of Construction Codes** (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building appeals to Plan **Review Division** 1st Floor Ottawa Bidg. 611 W. Ottawa St. Lansing, MJ 48933

Validation Area

Traninfo2141 21/15/02/3-1 12/09/16 (lath: 7567 Amt: \$500.00 10: INFINITY CONSTRUCTION SERVICES LLC

BCC-972 (07/16) Page 1

Charter Oaks Development / Island Lakes Development						
NAME OF CITY, VILLAGE OR TOWNSHIP IN WHICH FAC			COUNTY			
City Village Township	or: Taylor		Wayne			
BUILDING DATA						
GROSS FLOOR AREA			- , <u>- , - , - , - , , , , , , , , , , ,</u>			
	Addition	Alteration		Repair		
CLASSIFICATION PER BUILDING CODE						
Building Use Construction Ty	be No. of O	ccupants	Area/Floor	No. of Floors		
PERMIT HOLDER				Prélember -		
NAME (Company or Individual)		CONTACT PERSON	L	TELEPHONE NUMBER (Include Area Code)		
Infinity Construction Services				(248) 449-8084		
ADDRESS 42400 Grand River AVE STE 112	Novi	STATE	ZIP CODE 48375	FAX NUMBER (Include Area Code) (248) 449-8136		
		M	40375	(240) 449-0130		
BUILDING OWNER NAME (Company or Individual)		CONTACT PERSON		TELEPHONE NUMBER (Include Area Code)		
Infinity Acquisitions		Jonathan Boskovic	h	(248) 449-8084		
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)		
42400 Grand River AVE STE 112	Novi	MI	48375	(248) 449-8136		
BUILDING PERMIT AUTHORITY		1 1 1 1 1				
ENFORCING AGENCY		BUILDING OFFICIAL NAME		TELEPHONE NUMBER (Include Area Code)		
The City of Taylor		Jesse Harrington		(734) 287-6550		
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)		
23555 Goddard RD.	Taylor	MI	48180	(734) 374-1343		
SUMMARY OF APPEAL		I	L			
CODE SECTION(S)			Provide copies of the	ne following as appropriate:		
R311.3		Ŧ	Statement of Fa	icts and Reasoning		
DESIRED RELIEF (State Briefly)						
To be able to install a guard railing of	on the rear doorwall	as depicted in the	Copy of Enforcing Agency Determination			
supporting material			Supporting Material			
BASIS OF APPEAL (State Briefly)			Copy of Decisio	n of Local Board of Appeals		
Our basis is that the City of Taylor h	as the incorrect inter	ruption of the	Transariat of La	cal Board of Appeals Hearing		
2015 building code, The City of Tay		lde by a higher		cal Board of Appeals Realing		
code requirement than is necessary		•				
APPLICANT SIGNATURE			•	DATE		
LA.	Kunt	And a second and a		12/6/2016		
	$\langle \rangle$					

8CC-972 (07/16) Page 2

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This section to be completed by the Construction Board of Appeals Disposition by the City of Taylor Construction Board of Appeals tion m 14 not 5 - Co OP R.311 ¢, Egrez 5 2551 5 M. CH16 A 50 Hearing Date: 11-22-16 Code(s) which appeal is sought: 2015 MRC Code Section(s) that are the subject of the appeal: <u>311</u> Desired Relief: <u>Revolce Require months of Section</u> 34 \Box Approved Denied Jon Bradan Signature Construction Board of Appeals Print Name

CONSTRUCTION BOARD OF APPEALS – MINUTES TUESDAY, NOVEMBER 22, 2016

A special meeting of the Construction Board of Appeals meeting was held on Tuesday, November 22, 2016, at 23555 Goddard, Taylor, Michigan. Chairman Joe Bradanyi called the meeting to order at 5:25 p.m.

Attending: Joe Bradanyi, Steve Favors, Joe Vig

Excused: Tony Aday, Mark Styles

Also Attending: Jamie McCarty, Manager of Public Services, Jesse Harrington, Building Inspector, Keith Boc, Director of Public Services, Dave Greco, Legal Counsel

Motion by Favors, supported by Vig Resolved: To approve the agenda as submitted. Unanimously carried 11,10-16

Jon Boskovich of Infinity Homes presented his appeal to revoke the requirement to provide a stair, guard rail and landing system off the rear doorwalls of the homes under construction in the Charter Oaks Subdivision, Taylor, Michigan

More specifically the homes located at 11617 and 11659 Golfcrest Dr, 26632, 26626, 11889, 11935, 11977, 11848 and 11740 Lake Pointe Dr.

Interested Parties: Matt Sakalian, Infinity Homes

Motion by Favors, supported by Vig

Resolved: To deny the request to revoke the requirement to provide a stair, guard rall and landing system off the rear doorwalls of the homes under construction in the Charter Oaks Subdivision because the request doesn't comply with section R.311: Means of Egress, as stated in the 2015 Michigan Residential Code.

Unanimoùsly carried

11511-10

Motion by Favors, Supported by Vig Resolved: That the meeting be adjourned. Unanimously carried

The meeting was adjourned at 6:16 p.m.

Joe Bradanyi, Chairman

Cynthia A Bower, Clerk



42400 Grand River, Suite 112, Novi, MI 48375 PH: 248-449-8084 / Fax: 248-449-8136

www.Infinityhomescorp.com



To:	The City of Taylor Construction Board of From:		Infinity Construction Services, LLC			
. <u> </u>	Appeals					
Fax:	· .	Date:	10/13/2016			
Phone	8:	Pages:	1			
Re:	Building Code R311.3-Charter Oaks of	CC:				
	Taylor					

□ For Urgent □ For Review □ Please Comment □ Please Reply

It is our understanding that the municipal code official is requiring our company to provide a stair, guard rail and landing system off the rear doorwalls of our homes resulting in unnecessary costs to the home. The code official, Jesse Harrington, is interpreting the code section R311.3 in the 2015 Michigan Residential Code to support his interpretation. Given what we have researched and discussed with several engineers, architects as well Michigan Home Builders Association, the inspectors interpretation is incorrect and doesn't have merit. The simple reasoning is that when a doorwall is barricaded or prevented from opening (i.e. installing a block in the doorwall to prevent it from opening all the way if not at all, it effectively becomes a window. Furthermore, other means egress are prevalent within the dwelling as required by the code, there is no need for a landing. It is important to note that we have been building within the city for the last four years now and after building over 30 homes in that time in the City of Taylor. It is also important to note that this is not required across any other of 14 municipalities we are currently building in.

We would like to formal make an appeal with the local construction board to have our case heard and reviewed so that some actual evidence of the code can provide a basis of why this is being requested.

onathan Boskovich Director of Operations



6 Alterations or repairs of existing basements. An ency escape and rescue opening is not required where ig *basements* undergo alterations or repairs.

ception: New sleeping rooms created in an existing *sement* shall be provided with emergency escape and cue openings in accordance with Section R310.1.

SECTION R311 MEANS OF EGRESS

1 Means of egress. Dwellings shall be provided with a of egress in accordance with this section. The means ess shall provide a continuous and unobstructed path of il and horizontal egress travel from all portions of the ng to the required egress door without requiring travel in a garage. The required egress door shall open directly public way or to a yard or court that opens to a public

2 Door type and size. The required exit door shall be a inged door not less than 3 feet (914 mm) in width and 6

inches (2032 mm) in height. Other exterior hinged or ; doors shall not be less than 24 inches (609 mm) in and 6 feet, 6 inches (1980 mm) in height.

.30518

11.2.1 Interior doors. Interior doors shall be not less n 24 inches (609 mm) in width and 6 feet, 6 inches 80 mm) in height.

Exception: Doors to areas less than 10 square feet of floor area.

30518 A R311.3

3 Floors and landings at exterior doors. There shall inding or floor on each side of each exterior door. The of each landing shall be not less than the door served. landing shall have a dimension of not less than 36 (914 mm) measured in the direction of travel. The it exterior landings shall not exceed $\frac{1}{4}$ unit vertical in ts horizontal (2 percent).

:eption: Exterior balconies less than 60 square feet (5.6 and only accessible from a door are permitted to have inding less than 36 inches (914 mm) measured in the iction of travel.

11.3.1 Floor elevations at the required egress doors. idings or finished floors at the required egress door il be not more than $1^{1}/_{2}$ inches (38 mm) lower than the of the threshold.

Exception: The landing or floor on the exterior side shall be not more than 7^3I_4 inches (196 mm) below the op of the threshold provided the door does not swing over the landing or floor.

Where exterior landings or floors serving the required ess door are not at grade, they shall be provided with ess to grade by means of a ramp in accordance with tion R311.8 or a stairway in accordance with Section 11.7.

ICHIGAN RESIDENTIAL CODE

R311.3.2 Floor elevations for other exterior doors. Doors other than the required egress door shall be provided with landings or floors not more than $7^{3}/_{4}$ inches (196 mm) below the top of the threshold.

Exception: A top landing is not required where a stairway of not more than two risers is located on the exterior side of the door, provided that the door does not swing over the stairway.

R311.3.3 Storm and screen doors. Storm and screen doors shall be permitted to swing over exterior stairs and landings.

R311.4 Vertical egress. Egress from habitable levels including habitable attics and *basements* not provided with an egress door in accordance with Section R311.2 shall be by a ramp in accordance with Section R311.8 or a stairway in accordance with Section R311.7.

R311.5 Construction.

R311.5.1 Attachment. Exterior landings, decks, balconies, stairs and similar facilities shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails or nails subject to withdrawal.

R311.6 Hallways. The width of a hallway shall be not less than 3 feet (914 mm).

R311.6.4 Modular ramps. Modular ramp systems approved pursuant to the act are not required to comply with the requirements of Section R403.1.4 of the code.

R 408.30518

R311.7 Stairways.

R311.7.1 Width. Stairways shall be not less than 36 inches (914 mm) in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than $4^{1}/_{2}$ inches (114 mm) on either side of the stairway and the clear width of the stairway at and below the handrail height, including treads and landings, shall be not less than $31^{1}/_{2}$ inches (787 mm) where a handrail is installed on one side and 27 inches (698 mm) where handrails are provided on both sides.

Exception: The width of spiral stairways shall be in accordance with Section R311.7.10.1.

R311.7.2 Headroom. The headroom in stairways shall be not less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stairway.

Exceptions:

- 1. Where the nosings of treads at the side of a flight extend under the edge of a floor opening through which the stair passes, the floor opening shall be allowed to project horizontally into the required headroom not more than $4^3/_4$ inches (121 mm).
- 2. The headroom for spiral stairways shall be in accordance with Section R311.7.10.1.

2015

R311.7.12 Ships ladders. Ships ladders shall not be used as an element of a means of egress. Ships ladders shall be permitted provided that a required means of egress stairway or ramp serves the same space at each adjoining level or where a means of egress is not required. The clear width at and below the handrails shall be not less than 20 inches.

R311.7.12.1 Treads of ships ladders. Treads shall have a depth of not less than 5 inches (127 mm). The tread shall be projected such that the total of the tread depth plus the nosing projection is not less than $8^{1}/_{2}$ inches (216 mm). The riser height shall be not more than $9^{1}/_{2}$ inches (241 mm).

R311.7.12.2 Handrails of ships ladders. Handrails shall be provided on both sides of ships ladders and shall comply with Sections R311.7.8.2 to R311.7.8.4. Handrail height shall be uniform, not less than 30 inches (762 mm) and not more than 34 inches (864 mm).

R311.8 Ramps.

R311.8.1 Maximum slope. Ramps serving the egress door required by Section R311.2 shall have a slope of not more than 1 unit vertical in 12 units horizontal (8.3-percent slope). All other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5 percent).

Exception: Where it is technically infeasible to comply because of site constraints, ramps shall have a slope of not more than 1 unit vertical in 8 units horizontal (12.5 percent).

R311.8.2 Landings required. There shall be a floor or landing at the top and bottom of each ramp, where doors open onto ramps, and where ramps change directions. The width of the landing perpendicular to the ramp slope shall be not less than 36 inches (914 mm).

R311.8.3 Handrails required. Handrails shall be provided on not less than one side of ramps exceeding a slope of one unit vertical in 12 units horizontal (8.33-percent slope).

R311.8.3.1 Height. Handrail height, measured above the finished surface of the ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

R311.8.3.2 Grip size. Handrails on ramps shall comply with Section R311.7.8.3.

R311.8.3.3 Continuity. Handrails where required on ramps shall be continuous for the full length of the ramp. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than $1^{1}/_{2}$ inches (38 mm) between the wall and the handrails.

SECTION R312 GUARDS AND WINDOW FALL PROTECTION

R312.1 Guards. Guards shall be provided in accordance with Sections R312.1.1 through R312.1.4.

R312.1.1 Where required. Guards shall be located along open-sided walking surfaces, including stairs, ramps and

landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.1.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) in height as measured vertically above the adjacent walking surface or the line connecting the leading edges of the treads.

Exceptions:

- Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.
- Where the top of the guard serves as a handrail on the open sides of stairs, the top of the guard shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) as measured vertically from a line connecting the leading edges of the treads.

R312.1.3 Opening limitations. Required guards shall not have openings from the walking surface to the required guard height that allow passage of a sphere 4 inches (102 mm) in diameter.

Exceptions:

- 1. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.
- 2. Guards on the open side of stairs shall not have openings that allow passage of a sphere $4^{3}/_{8}$ inches (111 mm) in diameter.

R312.1.4 Exterior plastic composite guards. Plastic composite exterior *guards* shall comply with the requirements of Section R317.4.

R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

R312.2.1 Window sills. In dwelling units, where the top of the sill of an operable window opening is located less than 24 inches (610 mm) above the finished floor and greater than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:

- 1. Operable windows with openings that will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.
- Operable windows that are provided with window fall prevention devices that comply with ASTM F2090.
- 3. Operable windows that are provided with window opening control devices that comply with Section R312.2.2.

R312.2.2 Window opening control devices. Window opening control devices shall comply with ASTM F2090.

2015 MICHIGAN RESIDENTIAL CODE









LIBERTY PUMPS, INC.

Product Engineering 7000 Apple Tree Avenue Bergen, N.Y. 14416 phone: 585-494-1817 fax: 585-494-1839 jeff waterman@libertypumps.com April 22, 2016

Petition Application for Certificate of Acceptability Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes P O Box 30255, Lansing, MI 48909

Dear Sirs,

Enclosed please find an application for a Product Approval for the Liberty Pumps ELV OilTector® pumping systems I have enclosed catalog sheets, instruction manuals, and CSA and UL Certifications/Listings for the various components

The ELV OIlTector® systems are primarily designed for use in sumps serving elevator pits where hydraulic oil may be present and must be prevented from entering the sewer. As such, use of these systems then negate the requirement for use of an oil separator

The design of the OilTector® control unit used in our system is unique in that the detection of oil in the pit will never prohibit the pump from functioning when needed – excess water will always be pumped out. The pump operation is controlled by the electronic probes which detect the presence of water and the pump will continue to evacuate water from the sump when the "turn-on" probe is reached, regardless of the oil alarm status

We have three types of systems, but all utilize the OilTector® sensors The first type is our basic ELV-Series With this system any oil is retained in the sump and is never pumped out to the sewer. The sump must be sized to handle the maximum potential for oil leakage plus the volume of water below the "pump on" probe

The second OilTector® system is the ELV Auto-Valve Series With these Simplex pump systems water and oil are detected, and with the use of solenoid valves the oil can be pumped to a separate, appropriately sized holding tank as opposed to being retained in the sump

The third OilTector® system is the ELV Duplex Series These Duplex (twin pump) systems detect oil and water and allow for diversion of the oil to a separate tank and the water to the sewer by dedicated oil and water pumps

Please contact me if you need additional information for the approval I believe these systems should be approved, as they are quite similar to other products that currently have the special approval

Sincerely,

Jeffrey G Waterman Product Engineer

PAGE 1

Petition Application for Certificate of Acceptability Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes PO Box 30255, Lansing, MI 48909 www.michigan.gov/bcc

Application Fee: \$1,000 00) (Each Approval Requested Re	quires a Separate Applicatio	n and Fee)
Authonly 1972 PA 230		LARA is an equal opportunity employer	orooram Auxi	liary aids services and other reasonable accommodations
Penalty Failure to provide the infor	are available upon request to individuals with disabilities			
CODE UNDER WHICH APPROVAL IS S	OUGHT (Limited to One Code Per Petition)			
Building (140)	Mechanical (130)		Plumbing (98)	
	(Note All correspondence will be s	ent to this address)		
NAME OF COMPANY				
Liberty Pumps, Inc				
APPLICANT NAME				
Jeffrey G Waterman				
ADDRESS				TELEPHONE NUMBER (Include Area Code
7000 Apple Tree Ave				(585) 494-1817
СПТҮ	STATE	ZIF	CODE	FAX NUMBER (Include Area Code)
Bergen	NY	14	416	(585) 494-1839

Instructions for Petition Application for Acceptability

Nature of Petition: Check only one box A component is a preassembled unit of different materials or products that will be incorporated into a building

Code Under Which Approval is Sought: Check only one box If there are requirements in 2 or more codes for the approval sought, an additional petition and fee must be submitted

Name: Provide the name of the material, product, or method/manner of construction or installation

Other Identification: Provide the model numbers

Description: Provide a description of the material, product, method or component

Intended Use: Give a brief description of how the product is incorporated into a building or structure and its purpose

Laboratory Test and/or Evaluation By: List all tests performed and provide copies as listed above

Pilot Service Experience and Conditions: Provide report of finding as listed above

Restrictions for Use: Identify any restrictions or conditions of use

Other: Any documentation or description necessary to demonstrate why this application should be approved

Validation Area

U.S. Postal Service Michigan Dept of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building approvals to Plan Review Division) PO Box 30255 Lansing Mi 48909 Courier Other Than U.S. Postal Service Michigan Dept of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building approvals to Plan Review Division) 1st Floor Ottawa Bldg 611 W Ottawa St Lansing Mi 48933

BCC 247 (07/15) Page 1

140/115/130/98

Agency Use Only

· /			
APPROVAL REQUESTED			
NATURE OF PETITION (Limited to One Item Per Pe	lition)		
Material	✓ Product		ner of Construction or Installation
NAME OF MATERIAL PRODUCT OR METHOD/M/	ANNER OF CONSTRUCTION OR INSTALL	ATION	· · · · · · · · · · · · · · · · · · ·
Liberty Pumps ELV OilTector®	Elevator Sump Pump Syst	ems	
OTHER IDENTIFICATION (Model Number)	· · · · · · · · · · · · · · · · · · ·		
ELV OITector®, ELV Auto-Valv	e Oiltector®, ELV Duplex	OllTector®	
DESCRIPTION (Use Additional Sheets If Necessary)	· · · · · · · · · · · · · · · · · · ·		
Basic ELV system will always pr oil to retention tank, Duplex ded			e system one pump unit pumps collected bil to storage tank
INTENDED USE (Use Additional Sheets If Necessar	x)		
			ping water is guaranteed regardless of
oil status Oil is either retained	in pit or diverted to storage	tanks in lieu of use of	foil water separator
DATA SUBMITTED			· · · · · · · · · · · · · · · · · · ·
 ✓Letter ✓Manual Standards ✓Installation Instructions ✓Display Catalog 	Reports ICC - ES BOCA - NES ICBO SBCC NRB Other	□ Pr □ Re	oduct Sample or Model for Approvals by Other Agencies ecommendations by Model Code Bodies aboratory Test/Evaluation
LABORATORY TEST AND/OR EVALUATION BY		· · · ·	
Pumps Certified cCSAus file LR		file E214788, Tanks (Constructed to ASTM D3753
PILOT SERVICE EXPERIENCE AND CONDITIONS	. ,		
Similar to other MI approved sys Water (ref file 1646-PA)	stems, such as by Stancor,	/Industrial Systems (re	if file 1644-PA), and Liquid Smart / See
RESTRICTIONS FOR USE (Use Additional Sheets I	Necessary)		
All other aspects of the applicab	le plumbing, electrical, and	d elevator codes must	be followed
SIGNATURE Jeffreythattator	mar		DATE 4-128/2016

BCC 247 (07/15) Page 2

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They Pumps

10000

96

Alarm

(Year Warrantu

Control

Panel

Level Sensor

lilientin Purmos

OliTector

ELESates

Elevator Sump Pump Systems with OilTector Control

Ideal for elevators, garages and areas where the discharge of oil/hydrocarbons into the environment is prohibited. Compliant with ASME A17.1 and local building and safety codes.

Features:

Complete packaged system
 1/3, 1/2 or 3/4 hp Sump Pump

 1-1/2" Discharge
 OilTector[®] Control

 Remote Alarm
 115 or 230 volt models

 Easy clamp-mount installation, with plug-in ready wiring



ITMOWATE / CVOLVC.

ELV-Series System with OilTector® Control

The OilTector[®] control system is designed and approved for safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and other applications where oil and water must be detected. The OilTector[®] system will activate the pump to remove water from elevator pits in accordance with ASME A17.1, and will provide pumping of only water - even if an oil condition is detected. The OilTector[®] cycles the pump only in the water range. Oil and other harmful substances are not discharged into the environment. An alarm is activated in the event of a high water condition or high oil condition.

OilTector® Description of Operation

On water rise, the pump will activate when the water level reaches the "start" probe. Pump will remain on until the water level is below the "off" probe. When the "off" probe no longer senses water it turns the pump off, air or oil are ignored and an oil layer (if present) will not be pumped out of the sump. If the liquid level reaches the "alarm" probe and mechanical float, the system will differentiate between water and oil and activate the appropriate alarm.

ELV-Series Complete Sump Pump Systems

(Pump, OIIT)	ector" Co	ontrol, Alar	m)
Model	hp.	Volts	Wgt. lbs.
ELV250	1/3	115 v.	34
ELV280	1/2	115 v.	40
ELV280HV	1/2	230 v.	40
ELV290	3/4	115 v.	42
ELV290HV	3/4	230 v.	42

Pump Only Models

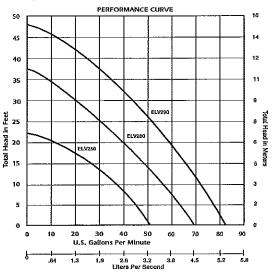
Model	hp.	Volts	Wgt. Ibs.
EV250	1/3	115 v.	24
EV280	1/2	115 v.	30
EV280HV	1/2	230 v.	30
EV290	3/4	115 v.	32
EV290HV	3/4	230 v.	32

Above models supplied with standard 25' pump power cord. For 6' or 50' pump power cords add -06 or -5 respectively. Example: ELV290-06 for 6' pump power cord.

OilTector® Control and Alarm Only

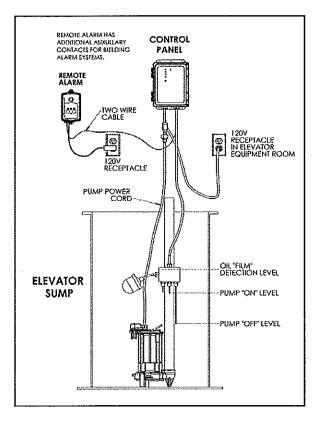
Model	Volts	Max.hp	Cord Length	Wgt. Ibs.	
OTC-115	115	1	25'	11	
OTC-230	230	2	25'	11	
OTC-115-5	115	1	50'	12	
OTC-230-5	230	2	50'	12	

Pump Performance Curve



Features:

- Heavy-duty 1/3, 1/2 or 3/4 hp. cast iron sump pump.
- Oil resistant SJEOOW cord, 25' standard length with both 6' and 50' lengths available.
- Easy, clamp mounted pre-set level sensor holder.
- No field adjustments required. OilTector[®] will turn pumps on and off, sound the high water alarm and high oil alarm with one easy installation.
- Control panel with separate pump and control circuits -Nema 1 enclosure. Height 10.0" x Width 7.5" x Depth 5.5"
- Plug-in ready pump cord and power to panel cord for quick and easy installation.
- Remote alarm with auxiliary contacts for connection to building automation or SCADA system, 24 volt AC/DC, 100 mA max switching.
- · Power on, Pump Run, High water and High oil lights.
- ASME A17.1 Compliant



Certified LISTED CONTROLS Certified Pumps

Specifications subject to change without notice.

Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 • Phone 800-543-2550 Fax (585) 494-1839 www.libertypumps.com Copyright © Liberty Pumps, Inc. 2015 All rights reserved. LLIT6601-R02/15



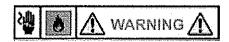


Read all instructions thoroughly. Installation of the OilTector must comply with all Federal, State and Local Codes, Regulations and Practices. The OilTector must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

VPumps[®]

The OilTector control system is designed and approved for the safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and leachate well applications. The OilTector will activate a pump to remove water from elevator pits in accordance with ASME A17.1. The OilTector stops the pump before oil or other harmful substances enter our water supply. Indicator lights will illuminate on the control panel for the following: power, pump running, high water, high oil. The panel has a set of auxiliary contacts that activate on power loss or high Oil/Water conditions. These contacts can be connected to the OilTector remote panel which contains audio/visual alarming along with auxiliary contacts for connection to building automation system or SCADA system. The recommended minimum sump size is Ø18" x 30" high.

Safety Guidelines



- 1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KERO-SENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. PROBE/FLOAT SWITCH SHOULD ONLY BE USED WITH WATER.
- 2. DO NOT HANDLE THE OILTECTOR SYSTEM WITH WET HANDS OR WHEN STANDING ON A WET OR DAMP SURFACE OR IN WATER.
- 3. DISCONNECT ALL ELECTRICAL SERVICE BEFORE WORKING OR HANDLING THE OIL ALERT SYSTEM.
- 4. INCOMING VOLTAGE MUST MATCH OILTECTOR SYSTEM VOLTAGE.
- 5. TO PREVENT ELECTRICAL SHOCK AND EQUIPMENT MALFUNCTION, USE ONLY WITH A PUMP SUPPLIED WITH A GROUNDING CONDUCTOR AND GROUNDING-TYPE ATTACHMENT PLUG. BE CERTAIN TO PLUG THE OILTECTOR PANEL INTO A PROPERLY GROUNDED, GROUNDING-TYPE RECEPTACLE.
- 6. CONTROL PANEL AND ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.
- 7. SECURE LEVEL SENSOR ON DISCHARGE PIPE AT A LEVEL THAT GUARANTEES PARTIAL PUMP SUBMERGANCE WHEN WATER LEVEL IS JUST BELOW THE "OFF" PROBE (THE LONGEST PROBE). (See Figure 5 on page 3 of this manual). FAILURE TO PROPERLY MOUNT THE LEVEL SENSOR MAY CAUSE THE PUMP TO ACTIVATE EVEN WHEN OIL IS PRESENT IN THE SUMP.
- 8. CAUTION! REMOVE ANY FLOAT SWITCH THAT IS CURRENTLY USED OR SUPPLIED WITH THE PUMP. IF THE FLOAT CANNOT BE REMOVED, SECURE SWITCH SO THAT IT IS ALWAYS ON.

Part Numbers

OTC-115 - OilTector 115 volt Oil Sensor Control System (Control Panel, Alarm Panel, Level Sensor). NEMA 1 enclosure.

OTC-230 - OilTector 230 volt Oil Sensor Control System (Control Panel, Alarm Panel, Level Sensor). NEMA 1 enclosure.



Page 1 of 9 Manual 72350001 DWG#72350001



Description of Operation

On water rise, level reaches pump "start" probe to start the pump. Pump will remain on until level is below "off" probe. The "off" probe senses air or oil and turns the pump off so the oil layer will not be pumped out of the sump. If the liquid level reaches alarm probe and mechanical float, the system will differentiate between water and oil and activate the remote alarm.

Liberty Pumps

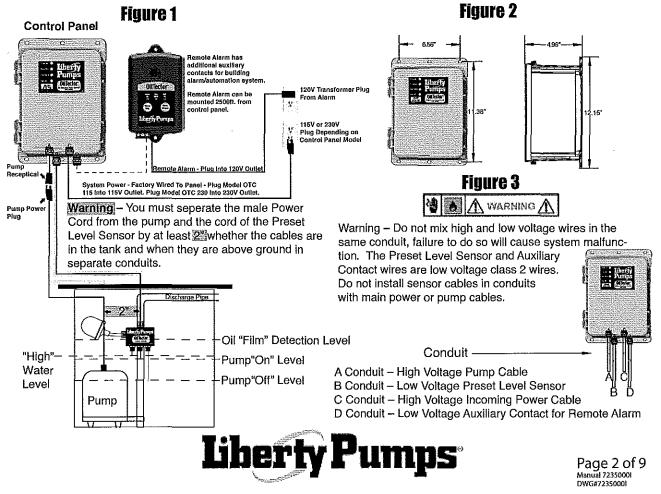
Installation of the Control Panel

1. It is highly recommended to mount the control panel in the same area as the sump pump to eliminate any splicing of sensor and pump wires. See "Installation of Preset Level Sensor Holder" for more information on splicing.

2. Determine mounting location for the control panel. Mount panel at the desired location making sure the mounting location of the control panel is within 6 feet of electrical receptacle.

3. Plug pump cable into control panel receptacle cable. Plug power cable into receptacle only when ready for testing. See Testing System Installation.

4. If the panel is to be installed with conduit, the cables and cord seals must first be removed. Please make note of wire locations. The incoming power (115V or 230V) is connected to L1 and L2 of the contactor, pump receptacle is T1 and T2 on the contactor. Low voltage cable from the level sensing module: green - TB1 off probe, yellow - TB2 start probe, red - TB3 alarm probe, white - TB4 float, black - TB5 float, TB 6 Shield. Low voltage auxiliary contacts are C,O & W. Do not mix low voltage probe wires or auxiliary contacts in high voltage conduits. See figure 1 and figure 3.





Installation of Preset Level Sensor Holder

- 1. Review figures 4, 5 and 6,
- 2. Attach sensor holder to discharge pipe or separate pipe (mounted to side wall) using the stainless steel pipe clamp. Make sure sensor is clear of inlet water and at least 2 inches away from any conductive material. Make sure the bottom probe (off level) is at the same height as the top of the pump or just slightly below ensuring submergence of the pump. See figure 5.
- 3. Route the five conductor cable to the control panel through the liquid tight cord connector and tighten compression nut.
- 4. Connect the wires from the level sensor to the terminal strip inside the control panel. See figure 6.
- 5. If splicing on sensor cable is required:

Figure 6

Circuit Board

- A. For any splicing longer than 100 feet, consult factory.
- B. Use liquid tight junction boxes and appropriate liquid tight connectors and/or conduit.
- C. Do not mix high & low voltage circuits in same junction box or conduit

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Caution! Do Not Run In Same Conduit

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Probe Probe Probe

As High Voltage Circuits

Class 2 Low Voltage.

D. For level sensor splice, it is recommended to use 3 pair-twisted 22 AWG shielded cable.

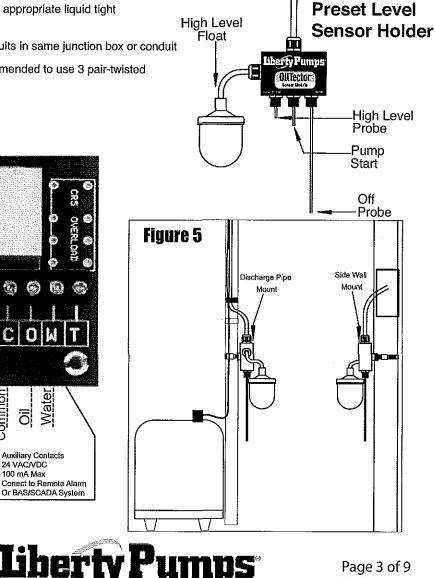


Figure 4

Page 3 of 9

Manual 72350001 DWG#72350001 7000 Apple Tree Avenue, Bergen, NY 14416 Phone: (800) 543-2550-Fax: (585) 494-1839-www.libertypumps.com

OilTector[®] Operation and Maintenance Manual

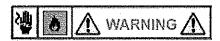
Liberty Pumps[®]

Introduction



Before proceeding with the installation or operation of the Oil Tector Remote Alarm, read all instructions thoroughly, as well as complying with all Federal, State and Local Codes, Regulations and Practices. The Oil Tector Remote Alarm must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

Safety Guildlines



- 1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES.
- 2. REMOTE ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.

Description of Operation

The OIL TECTOR REMOTE ALARM is powered by 120 VAC coming from standard wall outlets and is transformed to 11 VDC. Installing a 9 Volt battery provides battery back-up.

The Oil Tector Remote Alarm activates on High Oil or High Water from the control panel. Seperate dry contacts for High Oil and High Water can be connected to an Auto Dialer, a BAS (building automation system) or SCADA system.

Tools, Supplies and Requirements for Installation (Not Included)

- #1. Phillips screw driver
- #2. (Qty 2) #6 self tapping screws
- #3. Access to 120 VAC power receptacle
- #4. Optional \ plastic anchor if mounting to sheet rock
- #5. Optional 9V battery (used for battery back up if power goes out)
- #6. Optional Wire stripper (used if you need to strip wire to connect to a BAS or SCADA system)
- #7. Optional needle nose pliers if using aux contacts

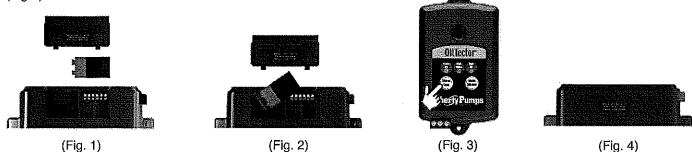


Page 4 of 9 Manual 72350001 DWG#72350001 Imps com

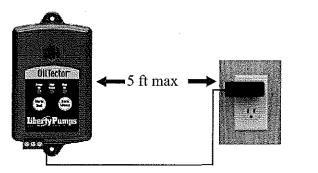


Installation of the Oil Tector Remote Alarm Continued

1. To install/replace the battery for the backup power feature, remove the access cover (Fig. 1) and install 9 VDC battery (Fig. 2). After installing battery, press the test button (Fig. 3) to activate the alarm to make sure the battery works properly. The power indicator, high oil indicator and high water indicator light should illuminate and the buzzer should annunciate. If using the auxiliary contacts, leave cover off until step 3 is completed. If you are not using them, replace the access cover (Fig 4).



2. Determine mounting location for the Oil Tector Remote Alarm. Make sure power outlet is within 5 feet of the alarm (Fig. 5). Make sure the outlet is in on a separate circuit breaker from any other device and not on a switched receptacle to maintain power integrity. Mount the alarm using two #6 self tapping screws (not included) (Fig. 6). Use #8 plastic anchor if mounting to sheet rock. (Fig. 7).



(Fig. 5)



(Fig. 6)



(Fig. 7)



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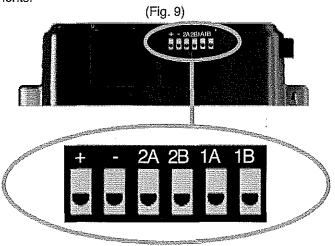
Installation of the ALARM UNIT Continued

3. Continued. If connecting to existing alarm security system or (BAS) system leave terminals + & - open and use 18 gauge 2 conductor wire to connect the existing product to terminals 2A,2B, 1A,1B (Fig. 9). When connected, replace the access cover and pull the wire through the knockouts on the access cover (See Step #4). Caution! - When installing wires, route all wires away from sharp objects & internal components.

Terminals 1A & 1B High Oil

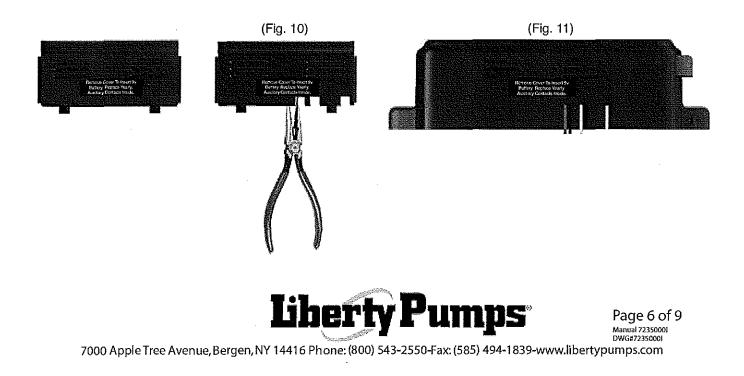
Terminals 2A & 2B High Water

Class 2, 24 VDC/VAC (50/60 HZ) 100 Milliamps MAXIMUM



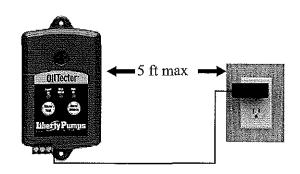
NOTE: The Auxiliary Contacts on the Oil Tector Remote Alarm are Normally Open only.

4. Use a needlenose pliers to remove the desired "break away tabs" from the access cover (Fig. 10). Lightly pull and twist off tab (s). Replace access cover and run wires through the "break aways" (Fig. 11)





6. Plug in the power supply into a 120VAC, 50/60 HZ standard wall outlet. The green "Normal" light should come on.



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7. Test the system by pressing the "Alarm Test" button. The buzzer, the red "High Water" light & the red "High Oil" light will be "on". Release the "Alarm Test" button and the alarm buzzer and indicator lights will automatically reset. Test product weekly to ensure system integrity.





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Testing the complete system Upon complete installation of controls, pump and piping, test the complete system.

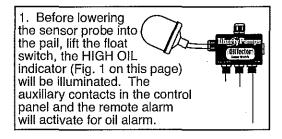
1. Test high oil circuit by lifting the float switch with the sump empty of water. Oil is non conductive like "air", and when the float is lifted only the HIGH OIL indicator will be illuminated. The auxiliary contacts in the control panel and the remote alarm will activate.

2. Test a pump cycle by slowly filling tank with water. Stop filling tank with water when the level touches middle probe. When the water touches the middle probe, pump should start and pump down to the bottom probe at which time the pump will stop. Check discharge plumbing for leaks and make sure discharge is going to the correct area.

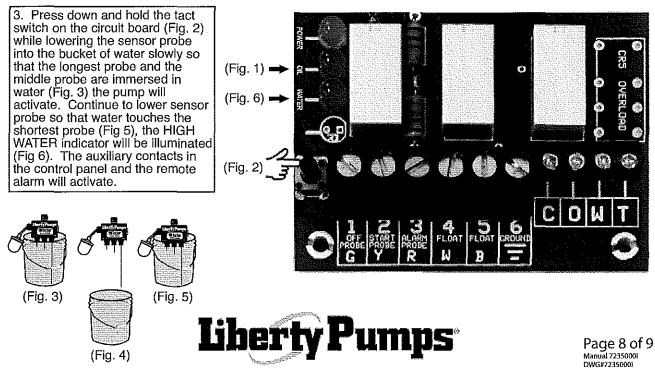
3. Test high water circuit. Slowly fill the tank until the water level just touches the upper probe. When the water touches all probes, the HIGH WATER indicator will be illuminated. The auxiliary contacts in the control panel and the remote alarm will activate.

4. Test the remote alarm for power loss. Unplug the power cord on the control panel. The auxiliary contacts "C & W" will close and the remote alarm will activate.

Testing panel - Using 5 gallon pail. If it is not possible to test the complete system outlined above, then test the panel operation using a 5 gallon pail filled with water.



2. (Press down and hold the tact switch on the circuit board -Fig. 2) while lowering the sensor into the bucket so the bottom and middle probes touch the water (Fig 3), the pump should activate. While the pump is activated, slowly remove the sensor probe out of the water until the longest probe is no longer in the water (Fig 4), then let go of the tact switch (Fig 2) and the pump should turn off. Repeat a couple of times for quality assurance.







Maintenance

- 1. The preset level control must be kept clean and free of rust, mud, soap or any conductive material.
- Every year clean probes keeping them free of debris, calcium or iron deposits.
 Fuses in control panel are 5mm X 20mm 1 amp for F1 (Spare fuses are included for your convenience)

- Every year replace 9 Volt Battery in Remote Alarm. 4.

Trouble Shooting

Symptom

Pump does not run

Possible Cause

Panel Power Cord Unplugged Pump not plugged into panel **Defective Contactor** Loose level sensor wires Pump failure

Action

Plug in Outlet, Check Power Plug pump to panel plug Replace Contactor **Tighten connections** Replace pump

Pump turns off before bottom probe

Pump Runs Continuously

Poor pump ground or system ground

Check grounding system

Make Sure the Preset Level Sensor cable and the power cord from the pump are separated by at least 2" in the tank and 2" apart running into the control panel.



Page 9 of 9 Manual 72350001 DWG#72350001

HAUGE VERVESETES

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OllTector

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Simplex pump system detects oil and water allowing for diversion of oil to a separate tank via automatic electronic valves.

For use in elevator pits, vaults and other areas requiring the control of oil discharge from sump water.

Features:

 Pumps available in 1/2 hp, 3/4 hp and 6/10 hp

 Flow rates to 95 GPM and heads to 65' (depending on model)

 Single and three-phase pump models available

 Complete system ships with control panel, remote alarm, level sensor, solenoid valves, junction box with disconnect, 2 reducer couplings, check valves and pump. (Systems with oil holding tank also available!)

 OilTector® control features advanced touch screen display and programming

 Remote alarm can be mounted up to 2,500¹ from panel

Preset level sensor for easy installation

 Advanced system monitors/verifies the amount of fluid pumped and that it was pumped to the correct location

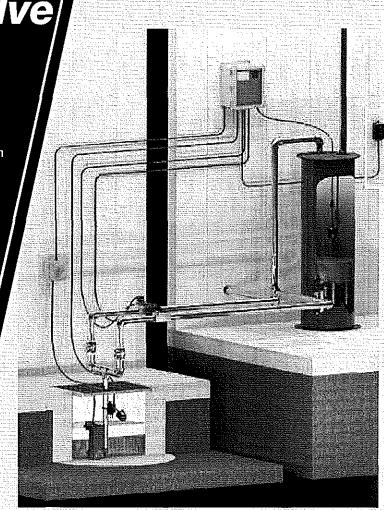
 Controls are available with optional BACnet Gateway for integration with building automation and control systems. Please contact Liberty Pumps for more information

OilTector® ELV Auto-Valve Series

Features and Operation:

The OilTector[®] ELV auto-valve system pairs an advanced controller with solenoid valves to control and eliminate unwanted water from elevator sumps, garages, vaults and other areas where the discharge of oil to the environment is prohibited. The system features a heavy-duty Liberty submersible pump with oil resistant components.

The OilTector[®] controller incorporates a programmable touch screen with a see-through door display - allowing maintenance personnel to easily view real-time system performance. A pre-set level sensor and float switch send level signals from the pit to the controller. When water collects in the sump pit and contacts both the lowest and the middle probe, the water solenoid valve opens and the pump will discharge the water until the level is below the lowest probe. If the water level increases to the highest probe, the high water alarm will sound signifying a high inflow condition or faulty pump.



In the event of an oil leak, the spilled oil will collect in the sump and float on the surface of the water. Once the layer is thick enough to trip the high oil float, the pump will eliminate the oil and water in the sump; the water will be pumped to the drain and then the oil will be routed to the waste oil storage tank preventing unwanted contamination.

The OilTector[®] controller additionally provides a means for manual pump and valve operation, dry contacts for alarm conditions and data logging to document all operational activity.



Specifications are subject to change without notice.





Alarm located

up to

2,500' from

panel

Simplex Control Panel Features:

Easy-to-use touch screen programming with adjustable display brightness.

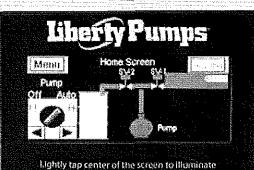
Clear cover panel with locking hasp.

Logic in the panel monitors how much water and/or oil is pumped and verifies that it is pumped to correct location.

The Simplex program is designed to run 1 pump with two solenoid valve controls. Valves open and close depending on input from the OilTector® pre-programmed sensor. An oil storage display is time-based using the pump's gallon-per-minute rating and dimensions of the holding tank as input by the user.

Data logging allows export of events to Excel[®] spreadsheet for expanded analysis and documentation.

Controls are available with optional BACnet Gateway for integration with building automation and control systems. Please contact Liberty Pumps for more information.

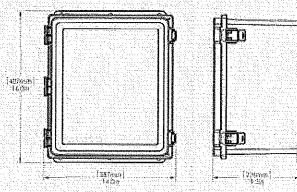




Data Event Log Records

Pump ETM Pump ETM Minutes Maintenance Clock Pump Run Count Pump Cycle Time HOA Status Amp Status Oil Status Valve 1 / Valve 2 Status Previous Count Cycle Time

Control Panel Dimensional Data



Control Panel Specifications:

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Pump Off/Auto switch

Pump elapsed time meter

Pump run counter

Pump off/delay time: adjusts pumps run-time when oil is detected

Pump status light GREEN=ON, RED=STOP

Oil storage level indicator

Display alarm banners for: • Fail • High Water • Oil Alarm • Power Fail

Solenoid valve status indicator GREEN=Open, RED=CLOSED

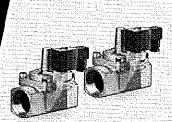
Preset level sensor with 25' of cord

Remote mount alarm (Indoor) can be mounted up to 2,500' from panel

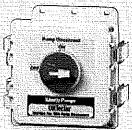
Float switch for oil level sensing in storage tank included with control system

OilTector[®] *ELV Auto-Valve Series*

Oil Tank included with these systems







Junction Box with Pump Disconnect NEMA 4X

Complete system - includes pump, contol panel, level sensor, solenoid valves, junction box with disconnect, check valves, reducer couplings and remote alarm (no holding tank)

Models	HP	Volts	Phase	Holdin	g Tank	Wgt Lbs
ELV280-VS	1/2	120	alta Gerbe r ia	,	lo in the second	90
ELV280HV-VS	1/2	230	Here and		lo 👘	90
ELV290-VS	3/4	120	leg system i i	N	lo	90
ELV290HV-VS	3/4	230		ng a beging tean N	lo <u>de la comp</u> ete	90
ELVFL63-VS	6/10	230	3	Ň	lo	122
Complete systems as above w	ith 59 gallon o	oil holding tan	ık			
ELV280-VST	1/2	120	1	Y	ES .	155
ELV280HV-VST	1/2	230	1	Y	ES .	155
ELV290-VST	3/4	120	1778 - A 187 1 18	i territori (T y	ES de la companya de	155
ELV290HV-VST	3/4	230	1	Y	ES .	155
ELVFL63-VST	6/10	230	3	Y	ES	187
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OilTector® Control System Only (No pumps or tank)

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Models	Volts Phase I	Wax Amps. Panel Style	Style	Wgt. Lbs.	···· .
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OTC-230-3-VS	230 3	4-6.3 NEMA 4X	Touch Screen	61	· · ·
	and the state of the second	(a) a protocol de la sector de la sector de la sector	and the second	and the second	

Above OTC control systems include control panel, remote alarm, level sensor, solenoid valves and junction box with disconnect. Controls are available with optional BACnet Gateway for integration with building automation and control systems.

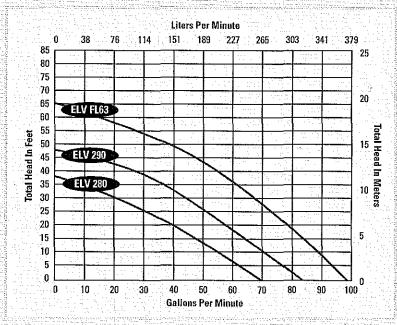
Oil Waste Holding Tank 18" X 54" 59 Gallons

Other sizes available consult factory

www.

libertypumps

:com

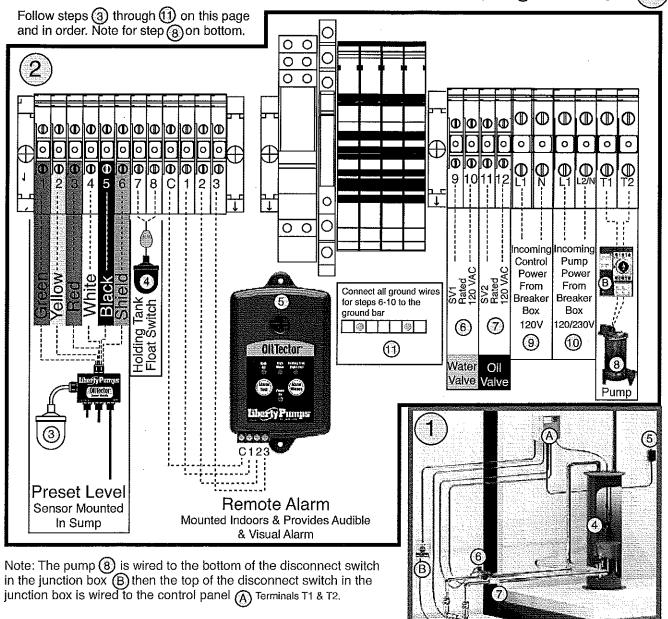


Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 Phone 800-543-2550 Fax (585) 494-1839

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OilTector Quick Start 1 Phase Simplex Auto-Valve

Use the (Installation Example) diagram 1 on the bottom right of this page as a reference to match up each component included in this system to the correct terminal blocks inside the control panel A shown in diagram 2





Page 1 of 3 Manual 6963000A DWG# 6963000A

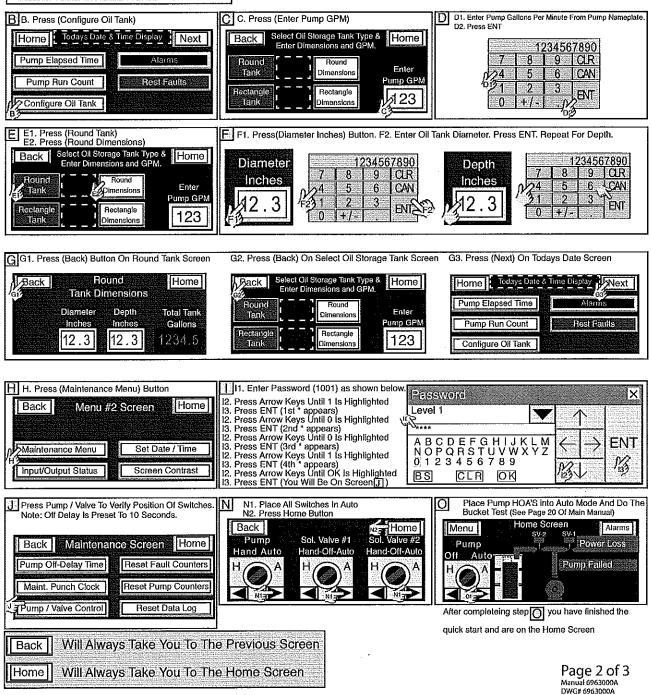
Installation Example

OilTector Quick Start 1 Phase Simplex Auto-Valve

Liberty Pumps[®]

QUICK START USE PAGE 2 FOR ROUND SHAPED HOLDING TANKS (Follow Steps A-O) USE PAGE 3 FOR RECTANGLE OR SQUARE SHAPED HOLDING TANKS (Follow Steps A-O)

A. Turn On Power To The Control Panel

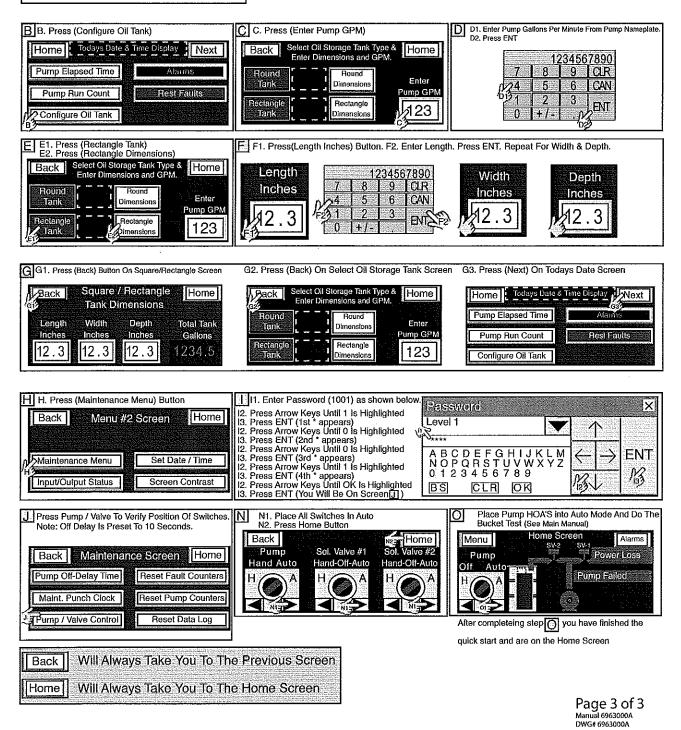




Liberty Pumps[®]

QUICK START - FOLLOW STEPS A-O IF USING A SQUARE OR RECTANGLE TANK

A Turn On Power To The Control Panel



OilTector® Gherty Pumps Ouick Start **3 Phase Simplex Auto-Valve** Use the (Installation Example) diagram on the bottom right of this page as a reference to match up each component included in this system to the correct terminal blocks inside the control panel (A) shown in diagram Follow steps (3) through (8) The pump (8) is wired to the bottom of the disconnect switch in the junction box (B) then the top of the disconnect switch in the junction box is wired to the control panel (A) Terminals T1,T2 & T3. Then go to page 2 of 4 to set transformer & MPS Then return to page 1 and connect(9) and(10) 2 Remote \mathbb{O} \oplus ወ ወ ወ Alarm Œ Φ D D Ð Ð ₪₪ ₪₪ D D D \square 10 Œ ወ Mounted Indoors 0 0 0 0 0 0 0 0 o 0 0 0 o 0 0 0 o 0 0 0 0 0 & Provides Ð Ø Φ Ð Ð ❶ D O ୢୗ୕ୖୢୖୗ୲୲ Audible & Visual Φ \square **D** L2 1 \oplus \mathbb{O} Œ Œ 9 10 11 12 1 2 3 2 3 4 5 6 7 8 С Alarm Ľ1 Ŧ1 L3 T2 TЗ 5 Incoming Power SV2 Rated 120 VAC C From Breaker Box OllTector hite SV1 Rate 30 ack 208/230/460 VAC a va đ 60 HZ Holding Tank Float Switch lank Φ \mathbf{r} (9) (7)(6)Liberty Pumps Water Oil (8) Valve Valve Pump 1 A) (5)Preset Level Sensor Mounted In Sump В 7 Connect all ground wires for steps 6-9 to the ground bar Installation ≩(3) Example 60) 2 × 1 Liberty Pumps[®]

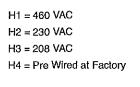
Page 1 of 4 Manual 6964000A DWG# 6964000A

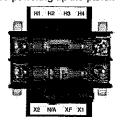




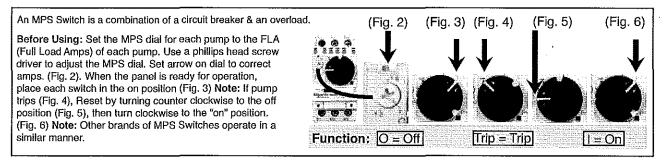
2. Set Your Transformer Tap

Always refer to included electrical schematic to verify wiring and function. Your transformer is used to step power down to the control voltage required for this control panel. Your transformer has to be wired to the correct voltage on the top of your transformer. H4, on the top right will have one leg connected to it when you get it from the factory. The other wire should connect to the corresponding voltage. See the example to verify which terminal you need to connect the other leg of power to. WARNING: Both legs of power must be connected on the top of the transformer before powering up the panel.





3. Set MPS Switch



4. Return To Page 1 of 4 And Connect Incoming Power 7 Then Proceed To Page 3 Of 4



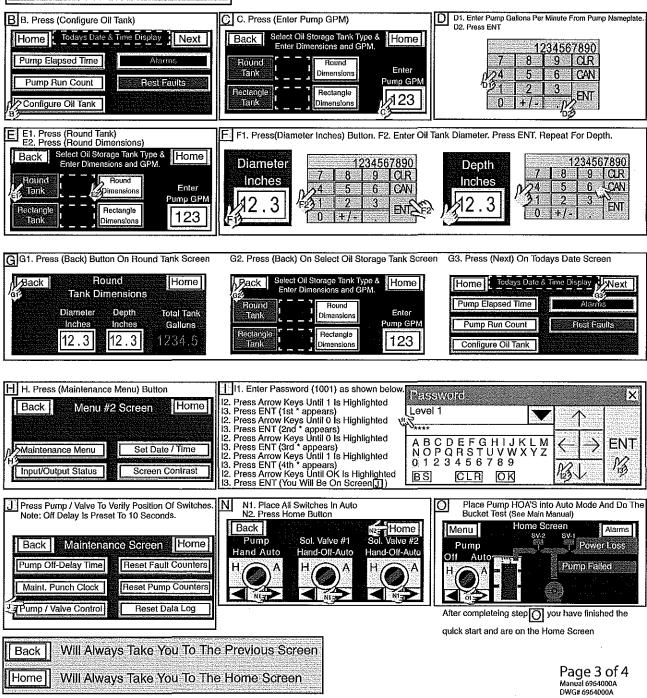
Page 2 of 4 Manual 6964000A DWG# 6964000A

Oil Tector[®] Quick Start 3 Phase Simplex Auto-Valve

QUICK START USE PAGE 3 FOR ROUND SHAPED HOLDING TANKS (Follow Steps A-O) USE PAGE 4 FOR RECTANGLE OR SQUARE SHAPED HOLDING TANKS (Follow Steps A-O)

Liberty Pumps

A.Turn On Power To The Control Panel

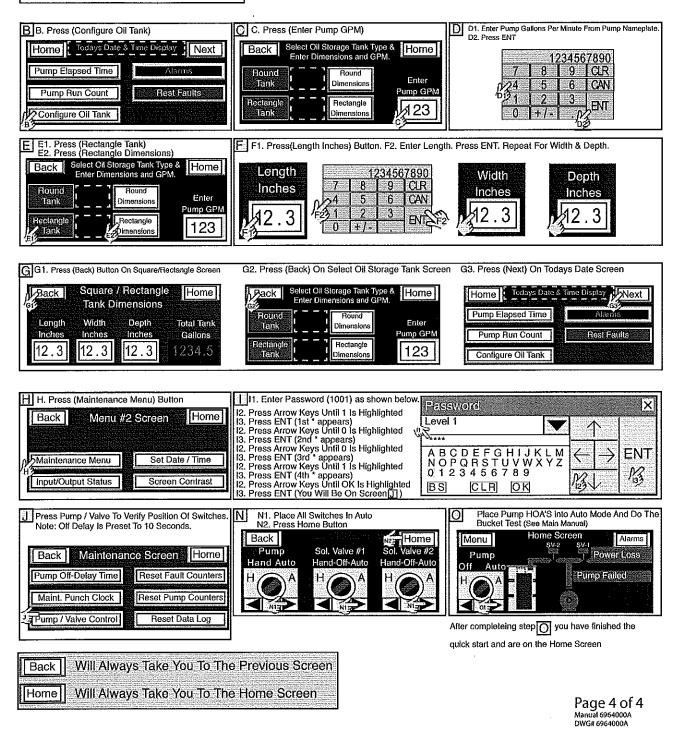




Liberty Pumps[®]

QUICK START - FOLLOW STEPS A-D IF USING A SQUARE OR RECTANGLE TANK

A Turn On Power To The Control Panel



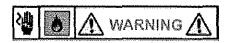


Introduction

Read all instructions thoroughly. Installation of the OilTector must comply with all Federal, State and Local Codes, Regulations and Practices. The OilTector must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

The OilTector control system is designed and approved for the safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and leachate well applications. The OilTector will activate a pump to remove water from elevator pits in accordance with ASME A17.1. The OilTector stops the pump before oil or other harmful substances enter our water supply. Indicator lights will illuminate on the control panel for the following: power, pump running, high water, high oil. The panel has a set of auxiliary contacts that activate on power loss or high Oil/Water conditions. These contacts can be connected to the OilTector remote panel which contains audio/visual alarming along with auxiliary contacts for connection to building automation system or SCADA system. The recommended minimum sump size is Ø18" x 30" high.

Safety Guidelines



- 1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KERO-SENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. PROBE/FLOAT SWITCH SHOULD ONLY BE USED WITH WATER.
- 2. DO NOT HANDLE THE OILTECTOR SYSTEM WITH WET HANDS OR WHEN STANDING ON A WET OR DAMP SURFACE OR IN WATER.
- 3. DISCONNECT ALL ELECTRICAL SERVICE BEFORE WORKING OR HANDLING THE OIL ALERT SYSTEM.
- 4. INCOMING VOLTAGE MUST MATCH OILTECTOR SYSTEM VOLTAGE.
- 5. TO PREVENT ELECTRICAL SHOCK AND EQUIPMENT MALFUNCTION, USE ONLY WITH A PUMP SUPPLIED WITH A GROUNDING CONDUCTOR AND GROUNDING-TYPE ATTACHMENT PLUG. BE CERTAIN TO PLUG THE OILTECTOR PANEL INTO A PROPERLY GROUNDED, GROUNDING-TYPE RECEPTACLE.
- 6. CONTROL PANEL AND ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.
- 7. SECURE LEVEL SENSOR ON DISCHARGE PIPE AT A LEVEL THAT GUARANTEES PARTIAL PUMP SUBMERGANCE WHEN WATER LEVEL IS JUST BELOW THE "OFF" PROBE (THE LONGEST PROBE). (See Figure 5 on page 3 of this manual). FAILURE TO PROPERLY MOUNT THE LEVEL SENSOR MAY CAUSE THE PUMP TO ACTIVATE EVEN WHEN OIL IS PRESENT IN THE SUMP.
- 8. CAUTION! REMOVE ANY FLOAT SWITCH THAT IS CURRENTLY USED OR SUPPLIED WITH THE PUMP. IF THE FLOAT CANNOT BE REMOVED, SECURE SWITCH SO THAT IT IS ALWAYS ON.

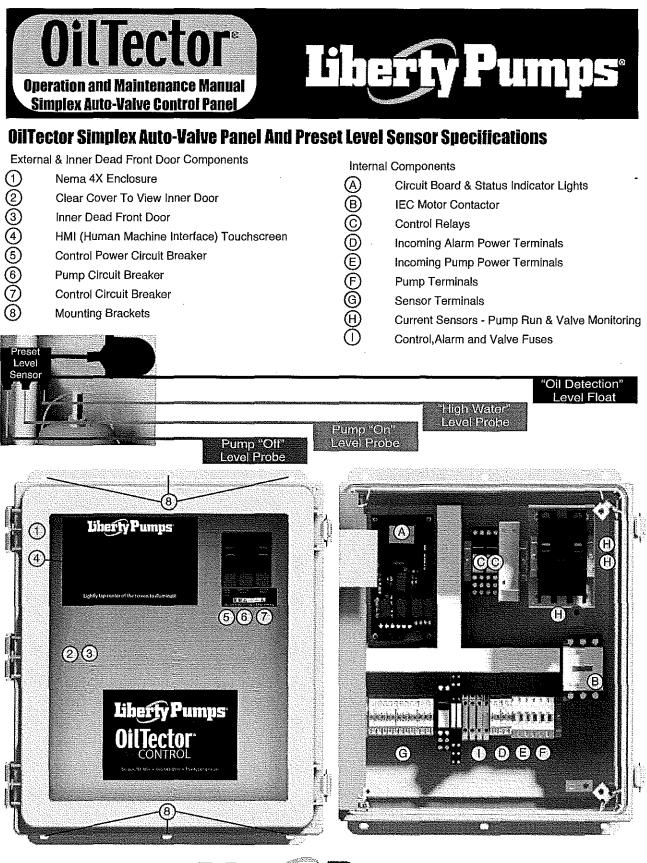
Important

REFER TO THE INCLUDED ELECTRICAL SCHEMATIC FOR ALL INCOMING POWER CONNECTIONS AND PUMP CONNECTIONS WHICH MAY INCLUDE OPTIONAL FIELD WIRING CONNECTIONS.

This Manual Is Used With ELV-VS and ELV-VST Series Oil Tector Control Panels.



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Installation of the Pump Disconnect Junction Boxes

1.Determine mounting location for the disconnect enclosure. Refer to all federal, state and local codes.

2.Drill appropriate holes for cable connectors/conduit fittings for the pump and incoming power for the pump.

3.Connect pump power cable to disconnect switch "load" terminals - use pump wiring label to identify terminals.

4. Connect incoming line power to disconnect switch "line" terminals - use line wiring label to identify terminals.

5.Place Handle to "ON" when ready to apply power to pumps. Note: Power is coming from pump control panel.

Installation of the Control Panel.

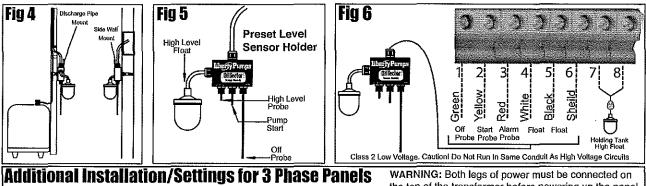
1.Determine mounting location for the control panel - Refer to all federal, state and local codes. If splicing is required, the sensor wires must be run in separate conduit as they are on a low voltage, class 2 circuit. Recommend 3 Wire-twisted pair cable 22 to 18 AWG.

2.Determine conduit entrance location on control panel. Make sure all conduits are sealed and waterproof.

3. Refer to schematic for power, pump, preset level sensor and valve connections.

Installing Preset Level Sensor & Holding Tank High Level Float Switch.

#1. Review figures 4, 5 & 6. #2. Attach sensor holder to discharge pipe or separate pipe (mounted to side wall) using the stainless steel clamp. Make sure sensor is clear of inlet water and at least 2 inches away from any conductive material. Make sure the bottom probe (off level) is at the same height as the top of the pump or just slightly below ensuring submergence of the pump. (Fig 5). #3. Route the five conductor cable to the control panel through sealed conduit connections. #4. Connect the wires from the level sensor to the terminal strip inside the control panel. See figure 6. #5. If splicing on sensor cable is required: A. For any splicing longer than 100 feet, consult factory. B. Use liquid tight junction boxes & appropriate liquid tight connectors and/or conduit. C. Do not mix high & low voltage circuits in same junction box or conduit D. For level sensor splice, it is recommended to use 3 pair-twisted 22 AWG shielded cable.



1. Set your transformer tap.

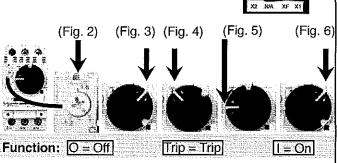
Always refer to included electrical schematic to verify wiring and function. Your transformer is used to step power down to the control voltage required for this control panel. Your transformer has to be wired to the correct voltage on the top of your transformer. H4, on the top right will have one leg connected to it when you get it from the factory. The other wire should connect to the corresponding voltage. See the example to verify which terminal you need to connect the other leg of power to.

2.An MPS Switch is a combination of a circuit breaker & an overload.

Before Using: Set the MPS dial for each pump to the FLA (Full Load Amps) of each pump. Use a phillips head screw driver to adjust the MPS dial. Set arrow on dial to correct amps. (Fig. 2). When the panel is ready for operation, place each switch in the on position (Fig. 3) Note: If pump trips (Fig. 4), Reset by turning counter clockwise to the off position (Fig. 5), then turn clockwise to the "on" position. (Fig. 6) Note: Other brands of MPS Switches operate in a similar manner.

the top of the transformer before powering up the panel.

H1 = 460 VAC
H2 = 230 VAC
H3 = 208 VAC
H4 = Pre Wired at Factory



Liberty Pumps

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Installation of the Remote Alarm Panel

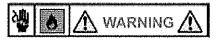
1.Determine mounting location of the remote alarm panel – Note: the alarm panel can be mounted up to 2,500 feet from the control panel.

Introduction



Before proceeding with the installation or operation of the OilTector Remote Alarm, read all instructions thoroughly, as well as complying with all Federal, State and Local Codes, Regulations and Practices. The OilTector Remote Alarm must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

Safety Guildlines



1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES.

2. REMOTE ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.

Description of Operation

The OILTECTOR REMOTE ALARM is powered by 120 VAC coming from standard wall outlets and is transformed to 9 VDC.

The OilTector Remote Alarm activates on High Oil or High Water in the pump basin and activates High Level in the holding tank. Seperate dry contacts for High Oil, High Water and High Holding Tank can be connected to an Auto Dialer, a BAS (building automation system) or SCADA system.

Tools, Supplies and Requirements for Installation (Not Included)

- #1. Phillips screw driver
- #2. (Qty 2) #6 self tapping screws
- #3. Access to 120 VAC power receptacle
- #4. Optional \ plastic anchor if mounting to sheet rock
- #5. Optional 9V battery (used for battery back up if power goes out)
- #6. Optional Wire stripper (used if you need to strip wire to connect to a BAS or SCADA system)
- #7. Optional needle nose pliers if using aux contacts

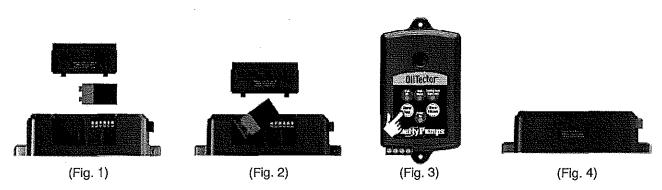


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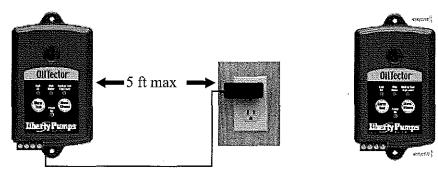


Installation of the OilTector Remote Alarm Continued

1. To install/replace the battery for the backup power feature, remove the access cover (Fig. 1) and install 9 VDC battery (Fig. 2). After installing battery, press the test button (Fig. 3) to activate the alarm to make sure the battery works properly. The power on indicator, high oil indicator, high water indicator and holding tank high level indicator lights should illuminate and the buzzer should annunciate. If using the auxiliary contacts, leave cover off until step 3 is completed. If you are not using them, replace the access cover (Fig 4).



2. Determine mounting location for the OilTector Remote Alarm. Make sure power outlet is within 5 feet of the alarm (Fig. 5). Make sure the outlet is in on a separate circuit breaker from any other device and not on a switched receptacle to maintain power integrity. Mount the alarm using two #6 self tapping screws (not included) (Fig. 6). Use #8 plastic anchor if mounting to sheet rock. (Fig. 7).



(Fig. 5)

(Fig. 6)



(Fig. 7)



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Installation of the ALARM UNIT Continued

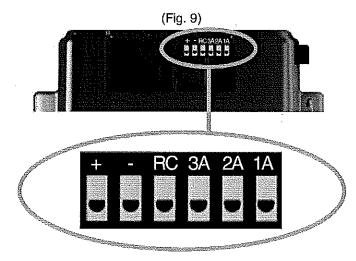
3. Continued. If connecting to existing alarm security system or (BAS) system leave terminals + & - open and use 18 gauge 4 conductor wire to connect the existing product to terminals RC,3A,2A,1A (Fig. 9). When connected, replace the access cover and pull the wire through the knockouts on the access cover (See Step #4). Caution! - When installing wires, route all wires away from sharp objects & internal components.

Terminals RC & 3A High Holding Tank

Terminals RC & 2A High Water/Trouble

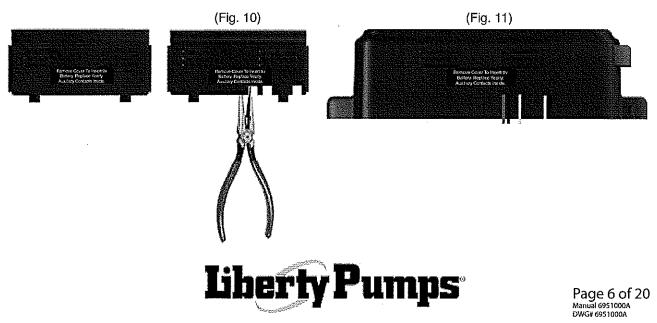
Terminals RC & 1A High Oil

Class 2, 24 VDC/VAC (50/60 HZ) 100 Milliamps MAXIMUM



NOTE: The Auxiliary Contacts on the Oil Tector Remote Alarm are Normally Open only.

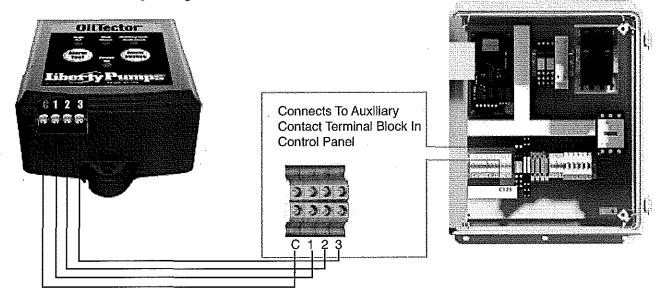
4. Use a needlenose pliers to remove the desired "break away tabs" from the access cover (Fig. 10). Lightly pull and twist off tab (s). Replace access cover and run wires through the "break aways" (Fig. 11)



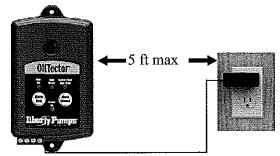


Installation of the OilTector Remote Alarm Continued

6. Connect the OilTector Remote Alarm to the auxiliary contacts marked C, 1,2,3 in the control panel. C on the alarm to C in the panel. 1 on the alarm to 1 in the panel. 2 on the alarm to 2 in the panel & 3 on the alarm to 3 in the panel.Use 18 awg, 4 conductor cable. CAUTION: The auxiliary cotacts are low voltage wires and cannot be run in a conduit with High voltage wires.



6. Plug in the power supply into a 120VAC, 50/60 HZ standard wall outlet. The green "Normal" light should come on.



7. Test the system by pressing the "Alarm Test" button. The buzzer, the red "High Water" light, the red "High Oil" light and the red "Holding Tank High Level" will be "on". Release the "Alarm Test" button and the alarm buzzer and indicator lights will automatically reset. Test product weekly to ensure system integrity.





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Description And Sequence Of Operation

The HMI / PLC program is designed to run and data log a simplex (one pump) application, with two valve control. The OilTector provides the most accurate data logging by using current sensors on the pump and valves to data log that the correct valve opened and pumped the correct fluid to the correct location. The valves open and close depending on the current condition of the OilTector controller. Also there is a storage tank level display that is time based. Using the pump gallons per minute, and the dimensions of the tank that is entered by the user the level display is only an approximation.

After all terminal connections are made, and supply voltage is verified.

- 1.) Power up control panel.
- 2.) Navigate to the Menu > Configure Oil Tank screen.
- 3.) Configure the controller for oil storage tank volume.
 - 3a. Enter the pump gallons per minute.
 - 3b. Select what type of storage tank is being used, and then press the dimensions button.
 - 3c. Enter the dimensions of the tank.

4.) Navigate to the Maintenance Menu > Pump/Valve Control and verify the HOA's are in the correct position.

Hand Mode:

When the pump Hand / Auto switch is placed in "Hand" mode the pump will run. When the solenoid valve #1 Hand-Off-Auto switch is placed in "Hand" mode the valve will open. When the solenoid valve #2 Hand-Off-Auto switch is placed in "Hand" mode the valve will open.

Auto Mode:

When the pump Off / Auto switch is placed into auto mode, the pump will be called to run by the oil alert start, stop, high water probes, and oil float. The valves will open and close depending on the conditions of the oil alert. If water is reaches the start probe it will open valve #1 and then start the pump. If oil is detected it will open valve #2 and then run the pump for the amount of time that was programed by the user, if valve #2 does not open or if valve #1 is open the pump will not run during a oil detection. If the controller doesn't see a run confirm in 5 seconds it will stop the pump, and give a pump fail message on the screen. This fault must be reset by going to the main menu, selecting "reset pump fail" and then press the reset pump fail button. If the controller doesn't receive a valid signal from the either valve within a 5 seconds of being called, it will

Alarm Conditions

High Level, Oil Detected, Pump Fail Alarms:

The alarm will trigger under these conditions (high water, oil detection, high storage tank level) or in the event of a pump failure. These alarm conditions will cause a set of contacts to close when active allowing the user to incorporate a remote alarm. The high levels and oil detection alarms will reset automatically when the condition is in the normal state. The pump fail and high storage display can be reset by navigating to the Menu > Reset Faults. The alarm buzzer may be silenced by pressing the alarm "silence" button.

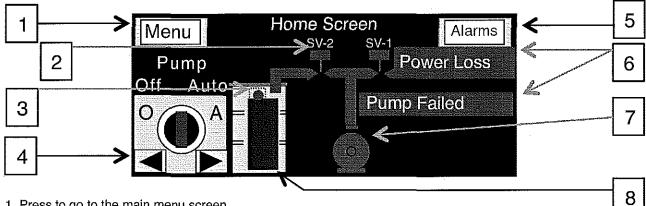


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OilTector **Operation and Maintenance Manual** Simplex Auto-Valve Control Panel

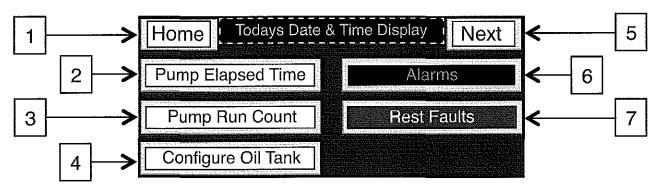
Liberty Pumps

Full Programming Of Touch Screen On Pages 9-16 **Home Screen**



- 1. Press to go to the main menu screen.
- 2. Displays status of solenoid valves Green=OPEN, Red CLOSED
- 3. Red dot blinks if high level float it activated.
- 4. "OFF-AUTO" selector switch.
- 5. Press to go to the alarm count and history screen.
- 6. Displays alarm banners for pump fail, high water, oil alarm, power fail etc.
- 7. Displays the status of the pump Green=ON, Red=STOP.
- 8. Shows the estimated amount of oil in the storage tank based on pump run time.

Main Menu Screen



- 1. Press to go back to the home screen.
- 2. Press to go to the pump elapsed time meter screen.
- 3. Press to go to the pump run count screen.
- 4. Press to go choose the storage tank type round or rectangle and enter the tank dimensions.
- 5. Press to go to menu screen 2.
- 6. Press to go to the alarm count and history screen.
- 7. Press to go to the screen that will allow you to reset a pump / solenoid fail, or full tank display.

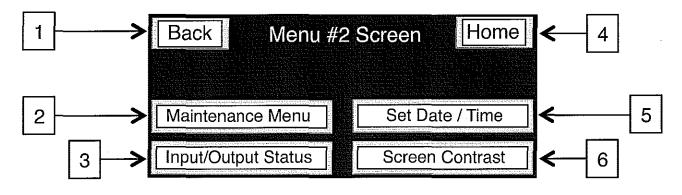


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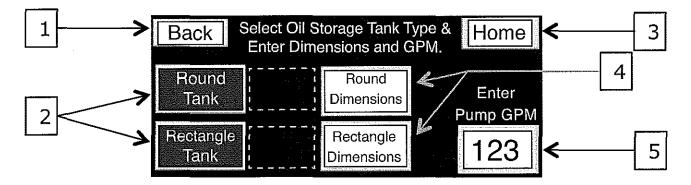
Liberty Pumps[®]

Menu Screen #2



- 1. Press to go back to the previous screen.
- 2. Press to go to the maintenance menu screen. *password protected (1001)
- 3. Press to go view the status of the inputs and outputs.
- 4. Press to go back to the home screen.
- 5. Press to update the current date / time.
- 6. Press to change the brightness of the display.

Oil Storage & Pump GPM Screen



- 1. Press to go back to the home screen.
- 2. Press to select what type of tank you have round or rectangle.
- 3. Press to return to the home screen.
- 4. Press to enter dimension measurements. *Note: Can only enter the dimensions of the tank that is selected.
- 5. Press to enter the gallons per minute of the pump.



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Round Tank Dimensions Screen



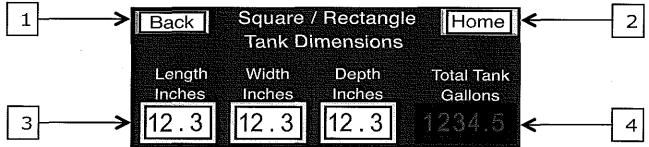
1. Press to go back to the previous screen.

2. Press to return to the home screen.

3. Press to enter the measurements of the diameter and depth of the storage tank.

4. Displays the total gallons of the tank based on the dimensions entered.

Rectangle Tank Dimensions Screen

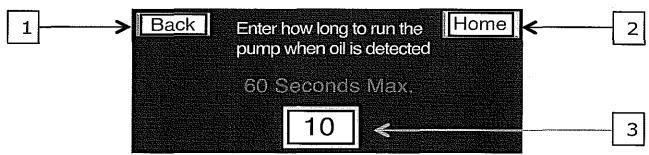


- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.

3. Press to enter the measurements of the Length, Width, and Depth of the storage tank.

4. Displays the total gallons of the tank based on the dimensions entered.

Oil Detected Run Time Screen



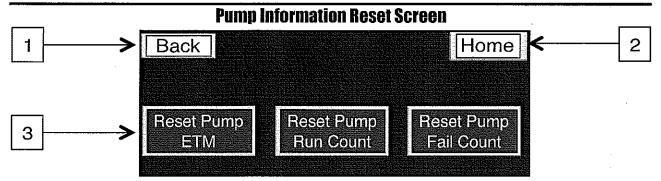
- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to enter the amount of time you want the pump to run if oil is detected. (60 Sec. Max.)



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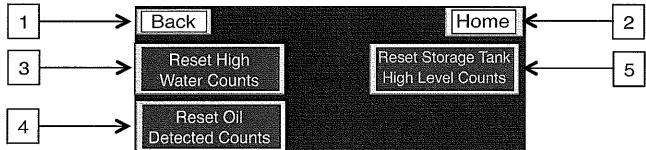
- 1. Press to go back to the previous screen.
- 2. Press to go back to the main menu screen.
- 3. Press to reset a pump fail fault or a solenoid fault.
- 4. Press to reset the level display of the storage tank.



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.

3. Press to reset pump information such as elapsed time meter, run count, pump fail count.

Fault Count Reset Screen



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to reset the high water alarm counts.
- 4. Press to reset the oil alarm counts.
- 5. Press to reset the storage tank high level counts.

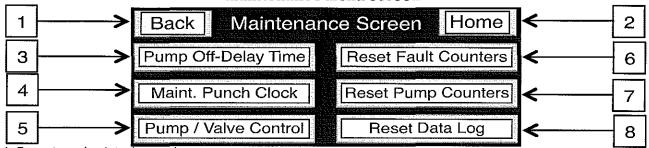


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Maintenance Menu Screen



1. Press to go back to the previous screen.

Press to return to the home screen.

Press to go to the pump run off-delay timer setting screen. *Note: This value is how long the pump will run after the oil alert float drops, if oil is detected. Factory set for (5 sec.)

Press to go to the maintenance punch clock screen.

Press to go to the pump / valve control screen.

Press to go to the fault reset screen.

Press to go to the pump information reset screen.

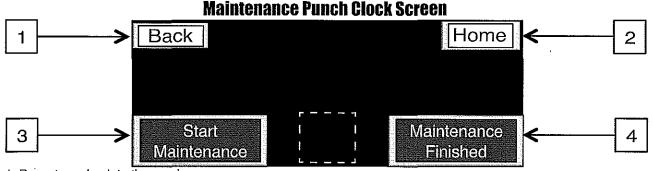
Press to go to the data log reset screen. *password protected (3333)



1. Press to go back to the previous screen.

2. Press to return to the home screen.

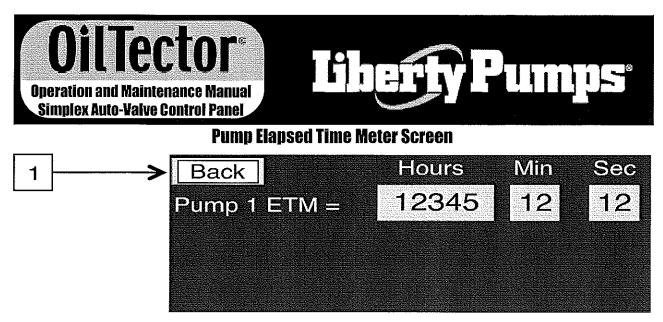
3. Press to toggle the control Hand Off Auto for the pump, solenoid valve #1, or Solenoid valve #2.



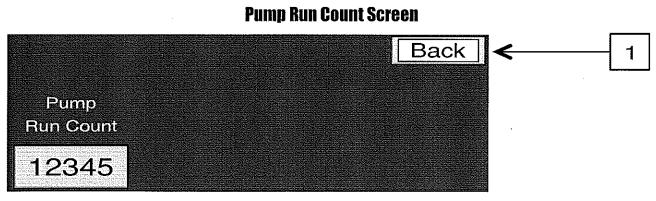
- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to start the maintenance punch clock, a stopwatch image will blink while activated.
- 4. Press to stop the maintenance punch clock, the time will then be stored to the USB flash drive if inserted.



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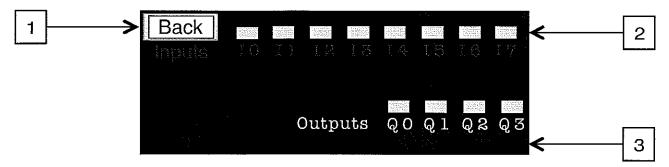


1. Press to go back to the previous screen.



1. Press to go back to the main menu screen.

Input / Output Screen



- 1. Press to go back to the previous screen.
- 2. Displays if the input is off or on. "On = Green".
- 3. Displays if the output is off or on. "On = Green".

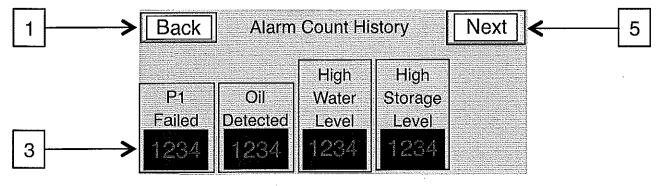


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Liberty Pumps[®]

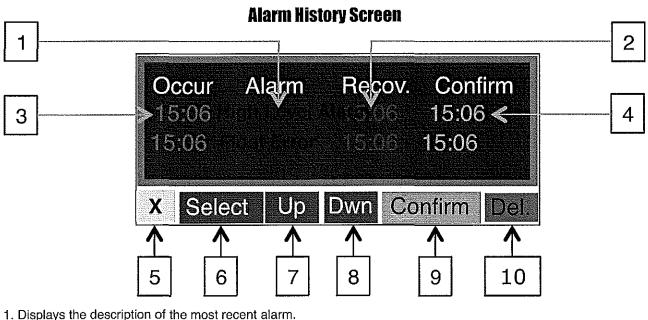
Alarm Count History Screen



1. Press to go back to the previous screen.

2. Press to go view current and past alarm conditions.

3. Displays the corresponding alarm count history.



- 2. Displays the time the alarm was recovered.
- 3. Displays the time that the alarm occurred.
- 4. Displays the time the time the alarm was confirmed/acknowledged.
- 5. Press to go back to the main menu screen.
- 6. Press to highlight the alarm history list. *Note: Must press select button before trying to scroll, confirm, or delete alarms from the list.
- 7. Press to scroll up through the alarm history list.
- 8. Press to scroll down through the alarm history list.
- 9. Press to confirm alarm(s).
- 10. Press to delete the alarm that is selected from the list.

*Note: This information can be saved to the USB flash drive if inserted.

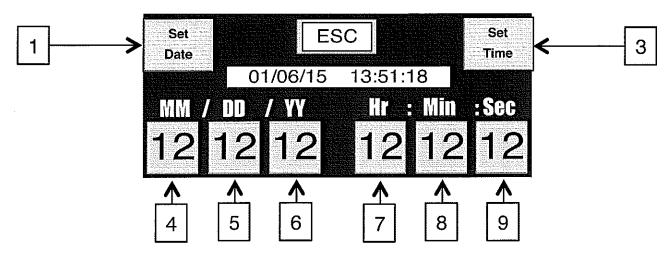


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Date / Time Screen



- 1. Press to set the values from 4,5,6 into the current date.
- 2. Press to go back to the previous screen.
- 3. Press to set the values from 7,8,9 into the current time.
- 4. Press to enter month.
- 5. Press to enter day.
- 6. Press to enter year.
- 7. Press to enter hour. Based on a 24 hour clock
- 8. Press to enter minute.
- 9. Press to enter second.

Data Reset Screen



- 1. Press to go back to the previous screen.
- 2. Press to go back to the home screen.
- 3. Press to delete all alarm and data log values.



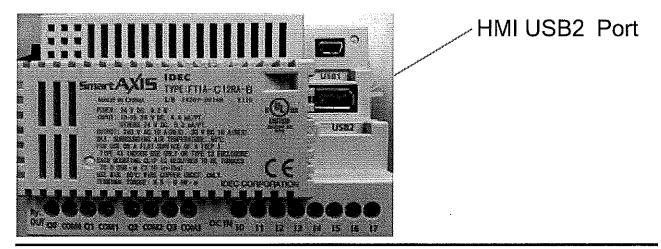
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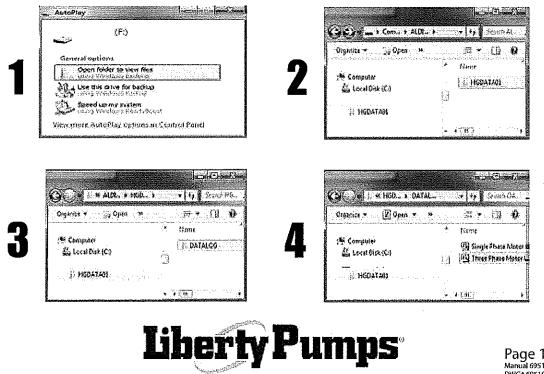
Data Logger

The user can insert a flash drive into the USB2 port on the back of the HMI to retrieve data for the pump and valves. These files are saved as csv. files.



How To View Data

- 1. After inserting the USB into your PC this dialog box will appear open folder to view files.
- 2. Click on the HGDATA01 folder.
- 3. Click on the DATALOG folder.
- 4. Click on which csv. file you want to view.



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Once installation is completed, test the operation of the control panel and all essential components.

(1b)

7

3b) (10b)

(1)

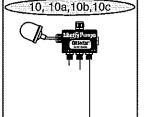
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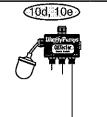
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(11b)

- 1a. &1b. Verify Incoming power then power up the control panel. (2) (a) (4) (5) (6) 2. Navigate to the Maintenance menu enter the password 1001 and then go to pump / valve control.
- 3a. & 3b. Ensure the correct valves open and close when corresponding selector is toggled from auto / hand modes.
- 4. Check the motor voltage, amps, and rotation by toggling the auto / hand selector.
- 5. Place all of the selectors into "auto" mode and navigate to the configure oil tank screen.
- 6. Enter the pump gallons per minute from the pump nameplate.
- 7. Select round or rectangle oil storage tank then enter the dimensions of the tank by pressing the corresponding button.
- 8. Navigate to the home screen place pump off / auto into the auto mode.
- 9. Raise storage tank float for 5 seconds & verify high storage level alarm activates then lower float & alarm resets.
- 10. With the probes on the oil sensor out of the water, raise & lower the float on the sensor. Verify the following
 - a. When raised oil detected alarm should activate.
 - b. When raised Solenoid #2 should energize 1 second before the pump starts.
 - c. When raised the tank level display should start rising.
 - d. When lowered the pump should run approximately 5 seconds ,or the value of the pump off-delay setting.
 - e. When lowered the oil detected alarm should deactivate.





- 11. Slowly lower the sensor probes into water. When middle probe makes contact with the water the water pump will start.
 - a. Keep slowly lowering the sensor until the short probe is making contact with the water and after 5 seconds the high water alarm should activate.
 - b.Then slowly raise the sensor from the water, the pump should keep running until the long probe is out of the water.

Note: If using a bucket for the test make sure there is a ground wire placed in the water or hold & press the tact switch on the circuit board when lowering probes in water. Release tact switch after all probes are out of the water.



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Trouble Shooting

Symptom:	Possible Cause:	Action:
Pump does not start	No source power to panel Control breaker turned OFF Pump breaker or disconnect turned OFF Defective contactor Loose level sensor wires Pump failure Oil storage tank is full HMI selector switch is in OFF mode Solenoid valve is not energizing	Verify source power Turn breaker ON Turn breaker & disconnect ON Replace contactor Tighten sensor connections Replace defective pump Empty tank and reset HMI fault Select AUTO mode in HMI Verify power at solenoid / Replace solenoid
	Solenoid valve CS not activating	Replace current sensor
Pump runs continuously once started with the sensor	Induced voltage on sensor wires	Separate sensor cable from pump power, maintain a minimum separation of 2"
Pump turns off before bottom probe	Poor pump or system ground	Verify good ground for system



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Herry Pumps Officetor ELADITO EXSERTES

Duplex pump system detects oil and waterallowing for diversion of oil to a separate tank via dedicated oil and water pumps.

For use in elevator pits, vaults and other areas requiring the control of oil discharge from sump water.

Features:

 Pumps available in 1/2 hp, 3/4 hp and 6/10 hp

 Flow rates to 95 GPM and heads to 65' (depending on model)

 Single and three-phase pump models available

 Complete system ships with control panel, remote alarm, level sensor, junction box with disconnects, 2 reducer couplings, 2 brass check valves and pumps. (Systems with oil holding tank also available!)

• OilTector® control features advanced touch screen display and programming

- Dry contact outputs for alarm conditions
- Preset level sensor for easy installation

 Advanced system monitors/verifies the amount of fluid pumped and that it was pumped to the correct location

 Controls are available with optional BACnet Gateway for integration with building automation and control systems. Please contact Liberty Pumps for more information

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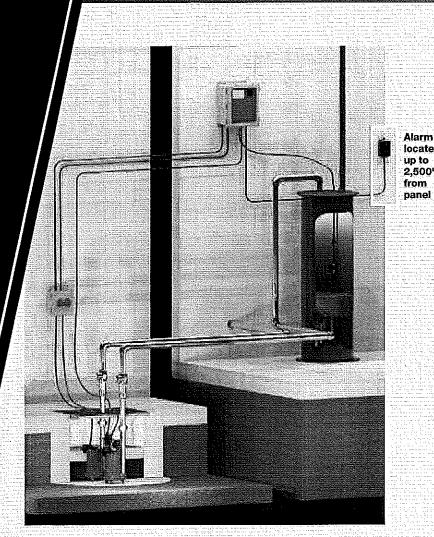
Offecto

OilTector® ELV Duplex Series

Features and Operation:

The OilTector[®] duplex pump system pairs a touch screen controller with two proven Liberty sump pumps to eliminate unwanted water from elevator sumps, garages, vaults and other areas where preventing the unwanted discharge of oil to the environment is required.

The OilTector[®] controller features a pre-set level sensor which consists of 3 metal probes and a float switch which will control two Liberty sump pumps, one designated for water service, and one for oil service. When water collects in the sump and contacts both the lowest and the middle probe, the water service sump pump will discharge the water until the level is below the lowest probe. If the water level increases to the highest probe, the high water alarm sounds signifying a high inflow condition or faulty pump.



Alarm located

from

panel

In the event of an oil leak, the spilled oil will collect in the sump and float on the surface of the water. Once the layer is thick enough to trip the high oil float, the pump will eliminate the oil and water in the sump; the water will be pumped to the drain and then the oil will be routed to the waste oil storage tank preventing unwanted contamination.

The OilTector[®] controller additionally provides a means for manual pump operation, dry contacts for alarm conditions and data logging to document all operational activity.



Specifications are subject to change without notice



Duplex Control Panel Feadurest

Easy-to-use touch screen programming with adjustable display brightness.

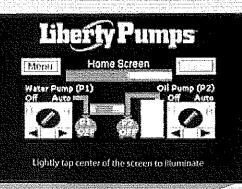
Clear cover panel with locking hasp.

Logic in the panel monitors how much water and/or oil is pumped and verifies that it is pumped to correct location.

The Duplex program is designed to run 2 pumps, one oil and one water. Specific pumps run depending on input from the OilTector® pre-programmed sensor. An oil storage display is time-based using the pump's gallon-per-minute rating and dimensions of the holding tank as input by the user.

Data logging allows export of events to Excel[®] spreadsheet for expanded analysis and documentation.

Controls are available with optional BACnet Gateway for integration with building automation and control systems. Please contact Liberty Pumps for more information.

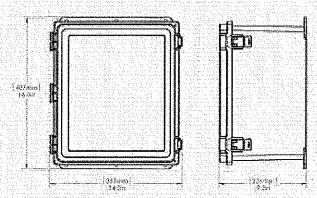




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Dara	EVENT	1 0 a K	ecoras.

Pump ETM Pump ETM Minutes Maintenance Clock Pump Run Count Pump Cycle Time HOA Status Amp Status Oil Status Previous Count Cycle Time

Control Panel Dimensional Data



Control Panel Specifications:

Control input volts 120V, 60 Hz (Single phase only)

Pump input volts 120/230 Single phase or 230/460V 3-phase, 60 Hz

Panel enclosure rating NEMA 4X

Maximum pump amps 15A Single phase 4-6.3A 3-phase

Pump Off/Auto switch

Pump elapsed time meter

Pump run counter

Pump off/delay time: adjusts pumps run-time when oil is detected

Pump status light GREEN=ON, RED=STOP

Oil storage level indicator

Display alarm banners for: • Fail • High Water • Oil Alarm • Power Fail

Preset level sensor with 25' of cord

Remote mount alarm (indoor) can be mounted up to 2,500' from panel

Float switch for oil level sensing in storage tank included with control system

OilTector[®] *ELV Duplex Series*

Oil Tank included with these systems



Junction Box with Pump Disconnects NEMA 4X

Models HP			Volts	1.3		Pha	se,	1	Holdi	ng '	ľank		W	/gt Lb
ELV280-D 1/2		- 177	120	7.15		1				No		.:		119
ELV280HV-D 1/2			230	677		<u>ि.</u> 1	·	- j	s di di	No	22 Q	÷ 73	53	119
ELV290-D 3/4	···· . ·	99. Vil.	120		tel s	1			: 	No		en et	19	119
ELV290HV-D 3/4			230	i della		: 1				No				119
ELVFL63-D 6/10			230	14		3		÷.		No	1.0			158
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Complete systems as above with 59 g	jallon	oil ho	lding tai	nk								s de la		1999 - Pri
ELV280-DT 1/2			120			1		•••••••••••••••••••••••••••••••••••••••	- in	/ES	. i . i .			184
ELV280HV-DT 1/2	111		230); <u></u> .		1		1.1	Ň	/ES		-		184
ELV290-DT 3/4			120	•		1		20	:: :: \	/ES	ret.	i sei .		184
ELV290HV-DT 3/4			230			1		u.	١	ES				184
ELVFL63-DT 6/10	1.77		230			3		ng i		/FS				223

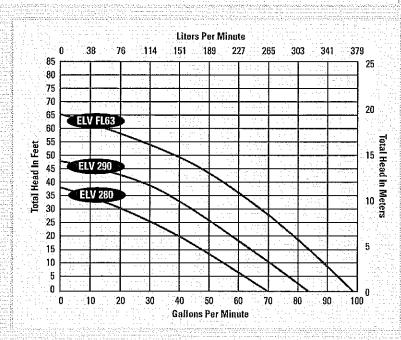
OilTector® Control System Only (No pumps or tank)

Models Voits		The survey of the second		-	
OTC-120/230-D 120/230	16	NEMA 4X	Touch Screen	36	
OTC-230-3-D 230	3 4-6	.3 NEMA 4X	Touch Screen	36	
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Above OTC control systems include control panel, remote alarm, level sensor, and junction box with disconnect. Controls are available with optional BACnet Gateway for integration with building automation and control systems.

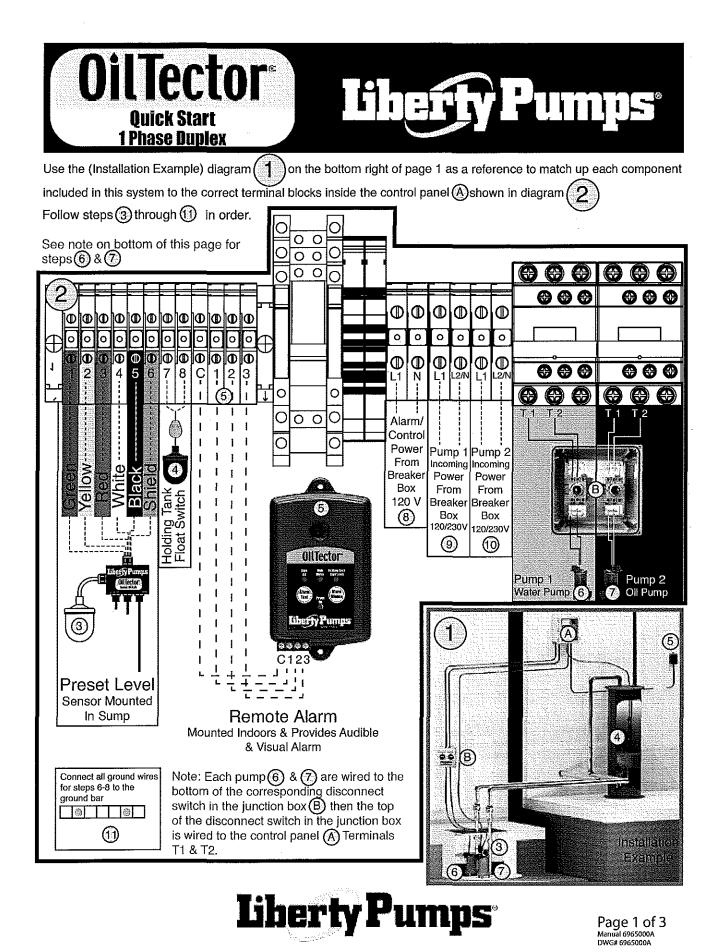
Oil Waste Holding Tank 18" X 54" 59 Gallons

Other sizes available consult factory



www. libertypumps .com Liberty Pumps • 7000 Apple Tree Avenue • Bergen, New York 14416 Phone 800-543-2550 Fax (585) 494-1839

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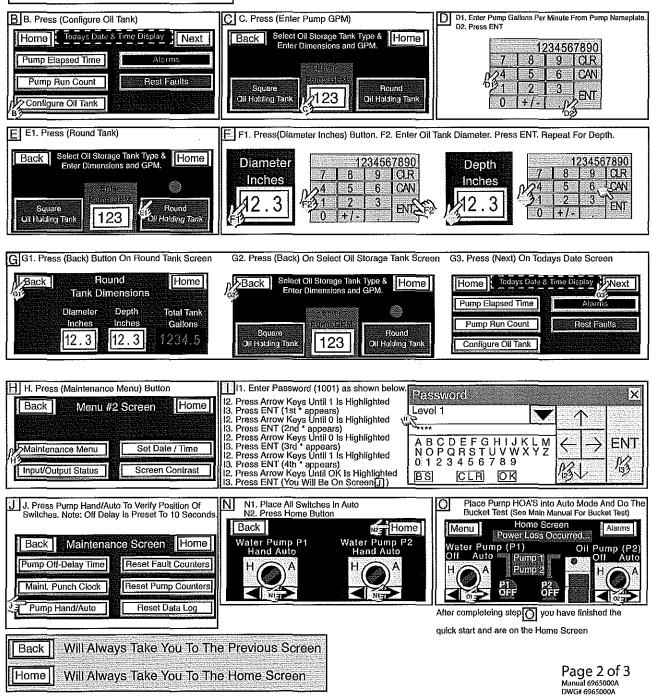


OilTector[®] Quick Start 1 Phase Duplex

QUICK START USE PAGE 2 FOR ROUND SHAPED HOLDING TANKS (FOIIOW Steps A-O) USE PAGE 3 FOR RECTANGLE OR SQUARE SHAPED HOLDING TANKS (FOIIOW Steps A-O)

Liberty Pumps

A. Turn On Power To The Control Panel

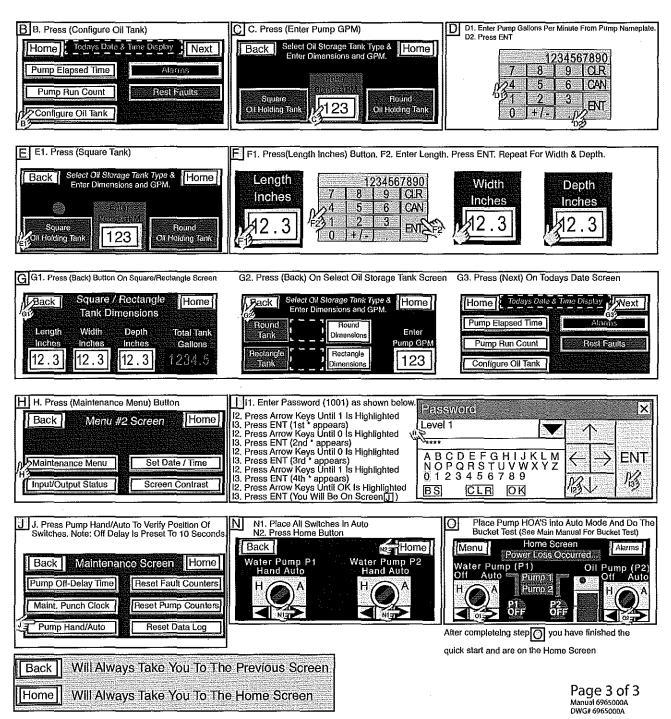


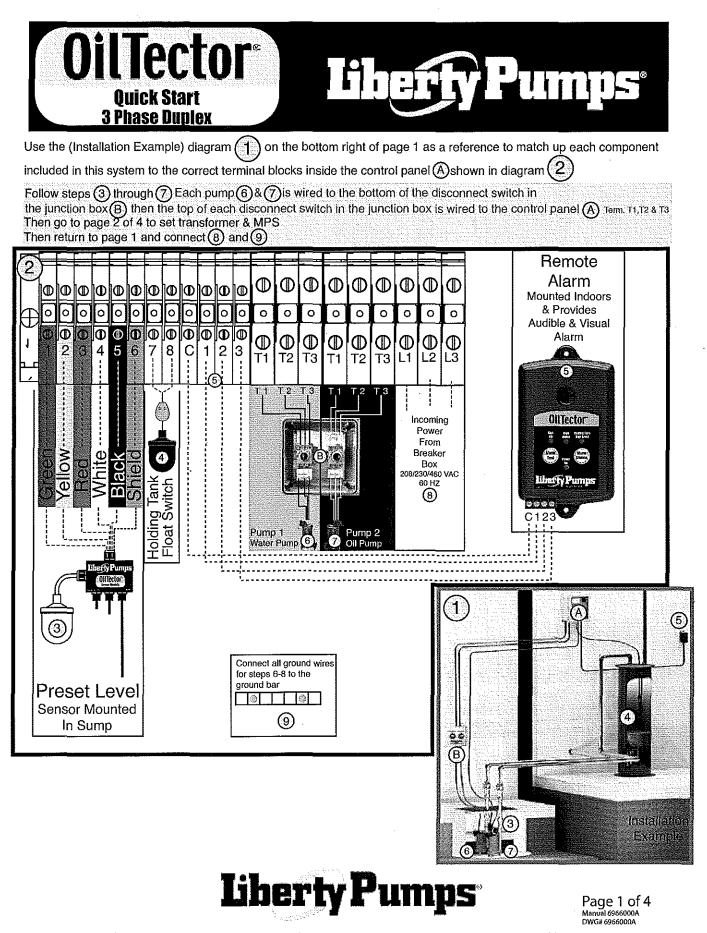


Liberty Pumps

QUICK START - FOLLOW STEPS A-0 IF USING A SQUARE OR RECTANGLE TANK

A.Turn On Power To The Control Panel



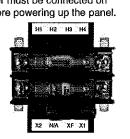




2. Set Your Transformer Tap

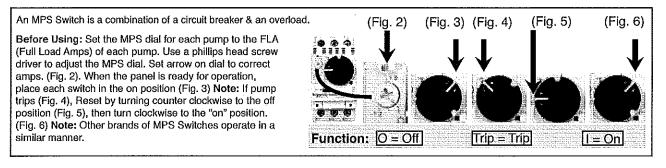
Always refer to included electrical schematic to verify wiring and function. Your transformer is used to step power down to the control voltage required for this control panel. Your transformer has to be wired to the correct voltage on the top of your transformer. H4, on the top right will have one leg connected to it when you get it from the factory. The other wire should connect to the corresponding voltage. See the example to verify which terminal you need to connect the other leg of power to. WARNING: Both legs of power must be connected on the top of the transformer before powering up the panel.

H1 = 460 VAC H2 = 230 VAC H3 = 208 VAC H4 = Pre Wired at Factory



Pumps

3. Set MPS Switch



4. Return To Page 1 of 4 And Connect Incoming Power 77 Then Proceed To Page 3 Of 4



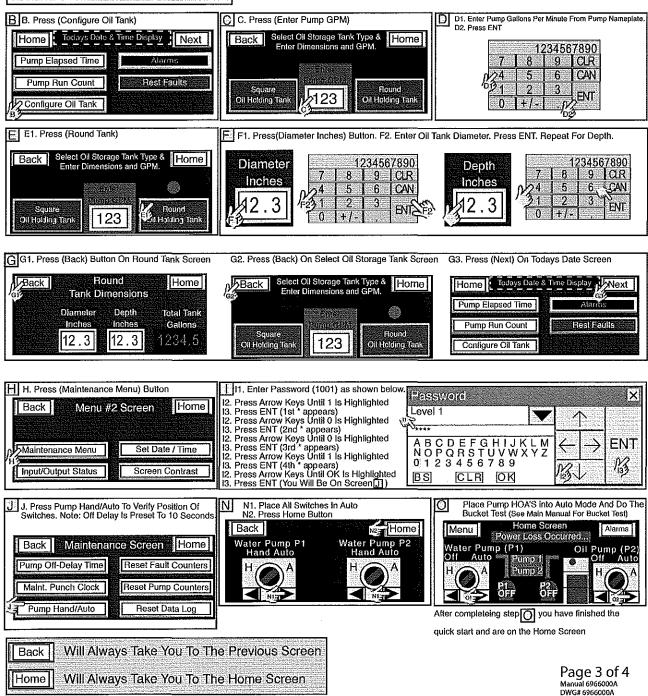
Page 2 of 4 Manual 6966000A DWG# 6966000A

Oil Tector® Quick Start 3 Phase Duplex

QUICK START USE PAGE 3 FOR ROUND SHAPED HOLDING TANKS (Follow Steps A-O) USE PAGE 4 FOR RECTANGLE OR SOUARE SHAPED HOLDING TANKS (Follow Steps A-O)

Liherty Pumps

A Turn On Power To The Control Panel

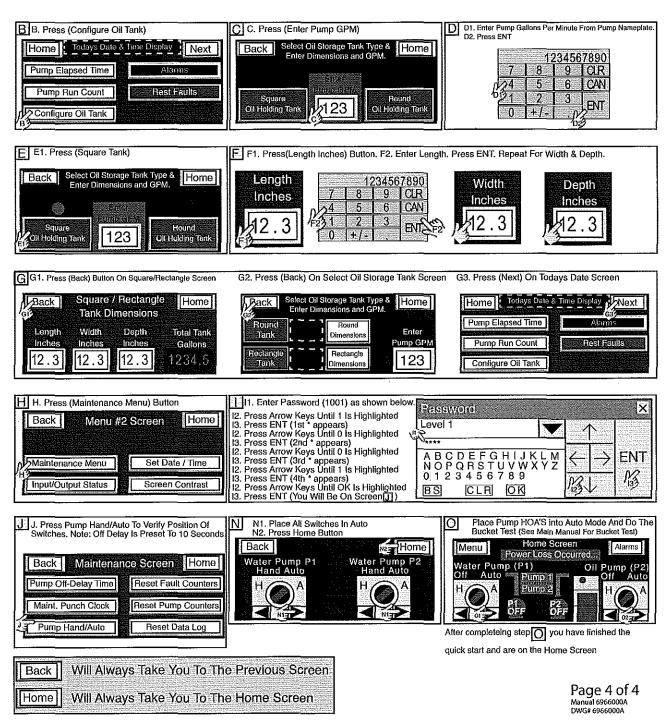




Liberty Pumps[®]

QUICK START - FOLLOW STEPS A-O IF USING A SQUARE OR RECTANGLE TANK

A Turn On Power To The Control Panel





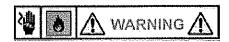


Read all instructions thoroughly. Installation of the OilTector must comply with all Federal, State and Local Codes, Regulations and Practices. The OilTector must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

GARTA PUMPS

The OilTector control system is designed and approved for the safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and leachate well applications. The OilTector will activate a pump to remove water from elevator pits in accordance with ASME A17.1. The OilTector stops the pump before oil or other harmful substances enter our water supply. Indicator lights will illuminate on the control panel for the following: power, pump running, high water, high oil. The panel has a set of auxiliary contacts that activate on power loss or high Oil/Water conditions. These contacts can be connected to the OilTector remote panel which contains audio/visual alarming along with auxiliary contacts for connection to building automation system or SCADA system. The recommended minimum sump size is Ø18" x 30" high.

Safety Guidelines



- 1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KERO-SENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. PROBE/FLOAT SWITCH SHOULD ONLY BE USED WITH WATER.
- 2. DO NOT HANDLE THE OILTECTOR SYSTEM WITH WET HANDS OR WHEN STANDING ON A WET OR DAMP SURFACE OR IN WATER.
- 3. DISCONNECT ALL ELECTRICAL SERVICE BEFORE WORKING OR HANDLING THE OIL ALERT SYSTEM.
- 4. INCOMING VOLTAGE MUST MATCH OILTECTOR SYSTEM VOLTAGE.
- 5. TO PREVENT ELECTRICAL SHOCK AND EQUIPMENT MALFUNCTION, USE ONLY WITH A PUMP SUPPLIED WITH A GROUNDING CONDUCTOR AND GROUNDING-TYPE ATTACHMENT PLUG. BE CERTAIN TO PLUG THE OILTECTOR PANEL INTO A PROPERLY GROUNDED, GROUNDING-TYPE RECEPTACLE.
- 6. CONTROL PANEL AND ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.
- 7. SECURE LEVEL SENSOR ON DISCHARGE PIPE AT A LEVEL THAT GUARANTEES PARTIAL PUMP SUBMERGANCE WHEN WATER LEVEL IS JUST BELOW THE "OFF" PROBE (THE LONGEST PROBE). (See Figure 5 on page 3 of this manual). FAILURE TO PROPERLY MOUNT THE LEVEL SENSOR MAY CAUSE THE PUMP TO ACTIVATE EVEN WHEN OIL IS PRESENT IN THE SUMP.
- 8. CAUTION! REMOVE ANY FLOAT SWITCH THAT IS CURRENTLY USED OR SUPPLIED WITH THE PUMP. IF THE FLOAT CANNOT BE REMOVED, SECURE SWITCH SO THAT IT IS ALWAYS ON.

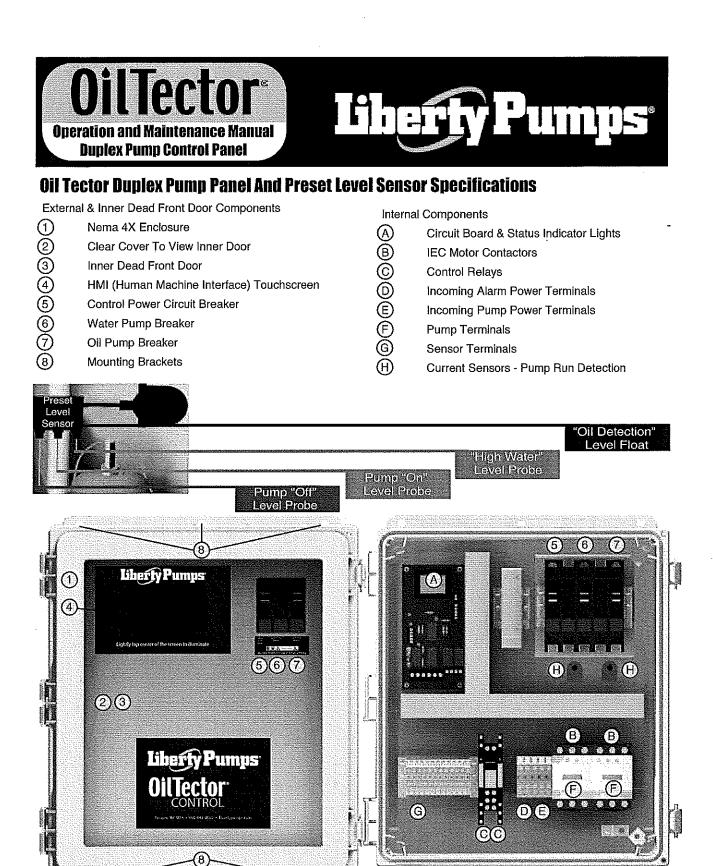
Important

REFER TO THE INCLUDED ELECTRICAL SCHEMATIC FOR ALL INCOMING POWER CONNECTIONS AND PUMP CONNECTIONS WHICH MAY INCLUDE OPTIONAL FIELD WIRING CONNECTIONS.

This Manual Is Used With ELV-D and ELV-DT Series Oil Tector Control Panels.



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7000 Apple Tree Avenue, Bergen, NY 14416 Phone: (800) 543-2550-Fax: (585) 494-1839-www.libertypumps.com

Liberty Pumps

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Liberty Pumps[®]

Installation of the Pump Disconnect Junction Boxes

1.Determine mounting location for the disconnect enclosure. Refer to all federal, state and local codes.

2.Drill appropriate holes for cable connectors/conduit fittings for the pump and incoming power for the pump.

3.Connect pump power cable to disconnect switch "load" terminals - use pump wiring label to identify terminals.

4.Connect incoming line power to disconnect switch "line" terminals - use line wiring label to identify terminals.

5.Place Handle to "ON" when ready to apply power to pumps. Note: Power is coming from pump control panel.

Installation of the Control Panel.

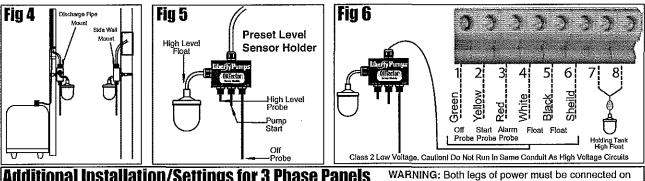
1.Determine mounting location for the control panel -- Refer to all federal, state and local codes. If splicing is required, the sensor wires must be run in separate conduit as they are on a low voltage, class 2 circuit. Recommend 3 Wire-twisted pair cable 22 to 18 AWG.

2.Determine conduit entrance location on control panel. Make sure all conduits are sealed and waterproof.

3.Refer to schematic for all electrical connections.

Installing Preset Level Sensor & Holding Tank High Level Float Switch.

#1. Review figures 4, 5 & 6. #2. Attach sensor holder to discharge pipe or separate pipe (mounted to side wall) using the stainless steel clamp. Make sure sensor is clear of inlet water and at least 2 inches away from any conductive material. Make sure the bottom probe (off level) is at the same height as the top of the pump or just slightly below ensuring submergence of the pump. (Fig 5). #3. Route the five conductor cable to the control panel through sealed conduit connections. #4. Connect the wires from the level sensor to the terminal strip inside the control panel. See figure 6, #5. If splicing on sensor cable is required: A. For any splicing longer than 100 feet, consult factory. B. Use liquid tight junction boxes & appropriate liquid tight connectors and/or conduit. C. Do not mix high & low voltage circuits in same junction box or conduit D. For level sensor splice, it is recommended to use 3 pair-twisted 22 AWG shielded cable.

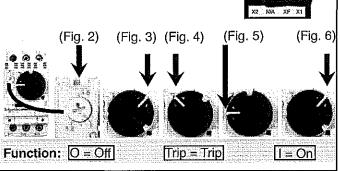


Additional Installation/Settings for 3 Phase Panels 1. Set your transformer tap.

Always refer to included electrical schematic to verify wiring and function. Your transformer is used to step power down to the control voltage required for this control panel. Your transformer has to be wired to the correct voltage on the top of your transformer. H4, on the top right will have one leg connected to it when you get it from the factory. The other wire should connect to the corresponding voltage. See the example to verify which terminal you need to connect the other leg of power to.

2.An MPS Switch is a combination of a circuit breaker & an overload.

Before Using: Set the MPS dial for each pump to the FLA (Full Load Amps) of each pump. Use a phillips head screw driver to adjust the MPS dial. Set arrow on dial to correct amps. (Fig. 2). When the panel is ready for operation, place each switch in the on position (Fig. 3) Note: If pump trips (Fig. 4), Reset by turning counter clockwise to the off position (Fig. 5), then turn clockwise to the "on" position. (Fig. 6) Note: Other brands of MPS Switches operate in a similar manner.



H1 = 460 VAC

H2 = 230 VAC

H3 = 208 VAC

H4 = Pre Wired at Factory

the top of the transformer before powering up the panel.



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Installation of the Remote Alarm Panel

1.Determine mounting location of the remote alarm panel – Note: the alarm panel can be mounted up to 2,500 feet from the control panel.

Introduction



Before proceeding with the installation or operation of the OilTector Remote Alarm, read all instructions thoroughly, as well as complying with all Federal, State and Local Codes, Regulations and Practices. The OilTector Remote Alarm must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NFPA 70). Failure to properly install and test this product can result in personal injury or equipment malfunction.

WARNING

Safety Guildlines

1. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. 2. REMOTE ALARM MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS CONSULT FACTORY.

Description of Operation

The OILTECTOR REMOTE ALARM is powered by 120 VAC coming from standard wall outlets and is transformed to 9 VDC.

The OilTector Remote Alarm activates on High Oil or High Water in the pump basin and activates High Level in the holding tank. Seperate dry contacts for High Oil, High Water and High Holding Tank can be connected to an Auto Dialer, a BAS (building automation system) or SCADA system.

Tools, Supplies and Requirements for Installation (Not Included)

- #1. Phillips screw driver
- #2. (Qty 2) #6 self tapping screws
- #3. Access to 120 VAC power receptacle
- #4. Optional \ plastic anchor if mounting to sheet rock
- #5. Optional 9V battery (used for battery back up if power goes out)
- #6. Optional Wire stripper (used if you need to strip wire to connect to a BAS or SCADA system)
- #7. Optional needle nose pliers if using aux contacts

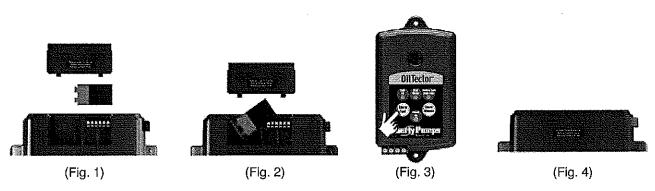


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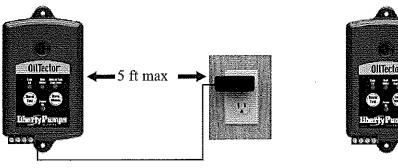


Installation of the OilTector Remote Alarm Continued

1. To install/replace the battery for the backup power feature, remove the access cover (Fig. 1) and install 9 VDC battery (Fig. 2). After installing battery, press the test button (Fig. 3) to activate the alarm to make sure the battery works properly. The power on indicator, high oil indicator, high water indicator and holding tank high level indicator lights should illuminate and the buzzer should annunciate. If using the auxiliary contacts, leave cover off until step 3 is completed. If you are not using them, replace the access cover (Fig 4).



2. Determine mounting location for the OilTector Remote Alarm. Make sure power outlet is within 5 feet of the alarm (Fig. 5). Make sure the outlet is in on a separate circuit breaker from any other device and not on a switched receptacle to maintain power integrity. Mount the alarm using two #6 self tapping screws (not included) (Fig. 6). Use #8 plastic anchor if mounting to sheet rock. (Fig. 7).



(Fig. 5)



(Fig. 6)



(Fig. 7)



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Installation of the ALARM UNIT Continued

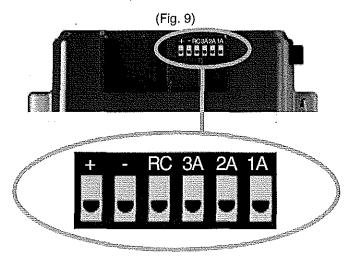
3. Continued. If connecting to existing alarm security system or (BAS) system leave terminals + & - open and use 18 gauge 4 conductor wire to connect the existing product to terminals RC,3A,2A,1A (Fig. 9). When connected, replace the access cover and pull the wire through the knockouts on the access cover (See Step #4). Caution! - When installing wires, route all wires away from sharp objects & internal components.

Terminals RC & 3A High Holding Tank

Terminals RC & 2A High Water/Trouble

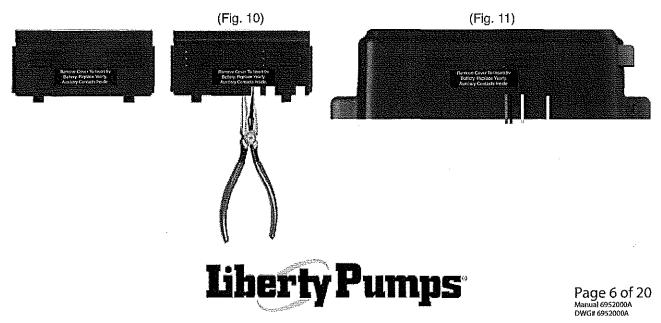
Terminals RC & 1A High Oil

Class 2, 24 VDC/VAC (50/60 HZ) 100 Milliamps MAXIMUM



NOTE: The Auxiliary Contacts on the Oil Tector Remote Alarm are Normally Open only.

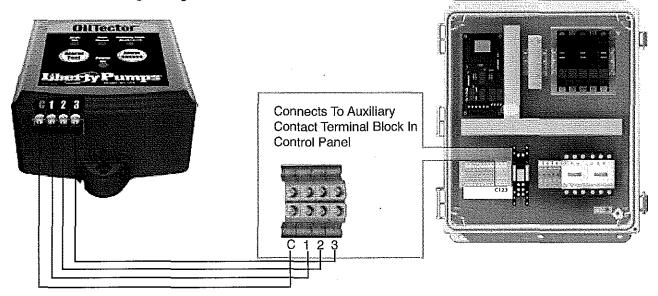
4. Use a needlenose pliers to remove the desired "break away tabs" from the access cover (Fig. 10). Lightly pull and twist off tab (s). Replace access cover and run wires through the "break aways" (Fig. 11)



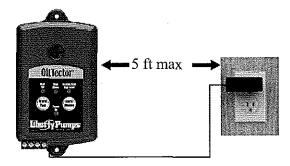


Installation of the OilTector Remote Alarm Continued

6. Connect the OilTector Remote Alarm to the auxiliary contacts marked C, 1,2,3 in the control panel. C on the alarm to C in the panel. 1 on the alarm to 1 in the panel. 2 on the alarm to 2 in the panel & 3 on the alarm to 3 in the panel.Use 18 awg, 4 conductor cable. CAUTION: The auxiliary cotacts are low voltage wires and cannot be run in a conduit with High voltage wires.



6. Plug in the power supply into a 120VAC, 50/60 HZ standard wall outlet. The green "Normal" light should come on.



7. Test the system by pressing the "Alarm Test" button. The buzzer, the red "High Water" light, the red "High Oil" light and the red "Holding Tank High Level" will be "on". Release the "Alarm Test" button and the alarm buzzer and indicator lights will automatically reset. Test product weekly to ensure system integrity.





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OilTector Operation and Maintenance Manual Duplex Pump Control Panel

Description And Sequence Of Operation

The HMI / PLC program is designed to run and data log a duplex (two pump) application, with a separate oil storage tank. The OilTector provides the most accurate data logging of how much water or how much oil has been pumped by using current sensors. The pumps run depending on the current condition of the OilTector controller. Also there is a storage tank level display that is time based. Using the pump gallons per minute, and the dimensions of the tank that is entered by the user the level display is only a guesstimate.

After all terminal connections are made, and supply voltage is verified.

1.) Power up control panel.

- 2.) Navigate to the Configure Oil Tank screen.
- 3.) Configure the controller for oil storage tank volume.
 - 3a. Enter the pump gallons per minute.
 - 3b. Select what type of storage tank is being used.
 - 3c. Enter the dimensions of the tank.

4.) Navigate to the Maintenance Menu > Pump/Valve Control and verify the HOA's are in the correct position.

Hand Mode:

When the a pump Hand / Auto switch is placed in "Hand" mode the corresponding pump will run.

Auto Mode:

When the pump Off / Auto switches are placed into auto mode, the corresponding pump will be called to run by the condition of the oil alert sensor. If water is reaches the start or high water probe and the sensor doesn't detect oil it will call for pump 1. If the float of the sensor is up and there is no conductivity between the stop and start probes this means oil is in the pump basin and the controller will start pump 2. The pump will continue to run after the float drops until the p2 off-delay time setting is met. (Factory set for 5 seconds.) The off-delay setting is password protected but can be changed per application. This allows the pump to empty the basin of oil into the oil storage tank. If the controller doesn't see a run confirm for the pump in 5 seconds it will give a pump fail message on the screen. This fault must be reset by going to the main menu, selecting

Alarm Conditions

High Level, Oil Detected, Pump Fail Alarms:

The alarm will trigger under these conditions high water, oil detection, high storage tank level, or if a pump failure. These alarm conditions will cause a dry set of contacts to close when active allowing the user to incorporate a remote alarm. The high levels and oil detection alarms will reset automatically when the condition is in the normal state. The pump fail and high storage display can be reset by navigating to the Menu > Reset Faults. The alarm buzzer may be silenced by pressing the alarm "silence" button.

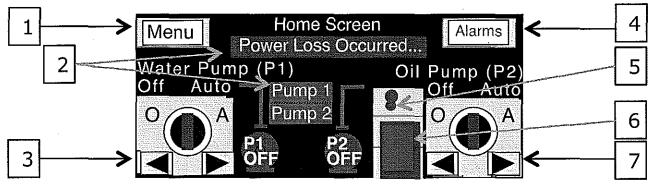


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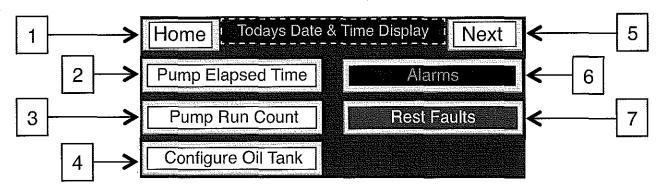
Liberty Pumps[®]

Home Screen



- 1. Press to go to the main menu screen.
- 2. Displays alarm banners for pump fail, high water, oil alarm, power fail etc.
- 3. Pump 1 water pump Off / Auto selector switch.
- 4. Press to go to the alarm count and history screen.
- 5. Red dot blinks if the high level float is activated.
- 6. Shows the estimated amount of oil in the storage tank based on pump run time.
- 7. Pump 2 oil pump Off / Auto selector switch.
- 8. Displays the status of the pump Green=ON, Red=STOP.

Main Menu Screen



- 1. Press to go back to the home screen.
- 2. Press to go to the pump elapsed time meter screen.
- 3. Press to go to the pump run count screen.
- 4. Press to go choose the storage tank type round or rectangle and enter the tank dimensions.
- 5. Press to go to menu screen 2.
- 6. Press to go to the alarm count and history screen.
- 7. Press to go to the screen that will allow you to reset a pump / solenoid fail, or full tank display.

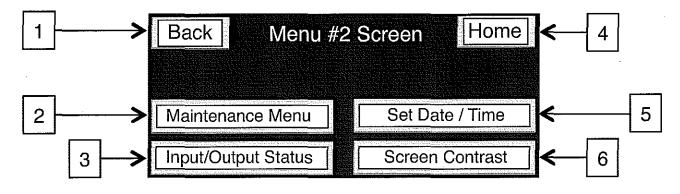


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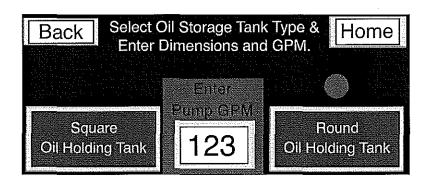
Liberty Pumps[®]

Menu Screen #2



- 1. Press to go back to the previous screen.
- 2. Press to go to the maintenance menu screen. *password protected (1001)
- 3. Press to go view the status of the inputs and outputs.
- 4. Press to go back to the home screen.
- 5. Press to update the current date / time.
- 6. Press to change the brightness of the display.

Oil Storage & Pump GPM Screen



- 1.Press to go back to the home screen.
- 2.Press to return to the home screen.
- 3. Green dot indicates which tank type is chosen.
- 4. Enter the pump nameplate gallons per minute.
- 5. Press to enter the dimensions of your square oil storage tank.
- 6.Press to enter the dimensions of your round oil storage tank.



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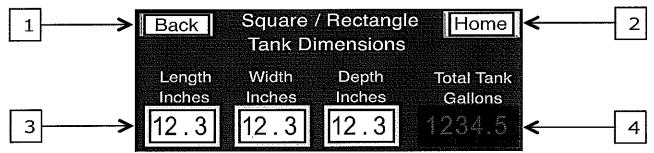
1. Press to go back to the previous screen.

2. Press to return to the home screen.

3. Press to enter the measurements of the diameter and depth of the storage tank.

4. Displays the total gallons of the tank based on the dimensions entered.

Square/Rectangle Tank Dimensions Screen



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.

3. Press to enter the measurements of the Length, Width, and Depth of the storage tank.

4. Displays the total gallons of the tank based on the dimensions entered.

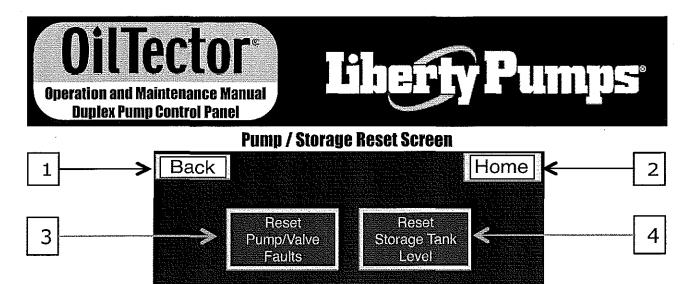
Oil Detected Run Time Screen



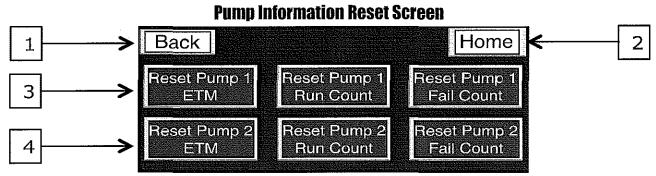
- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to enter the amount of time you want the pump to run if oil is detected. (60 Sec. Max.)



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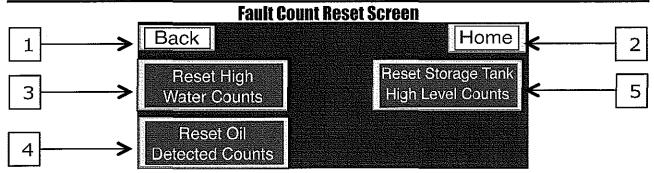
- 1. Press to go back to the previous screen.
- 2. Press to go back to the main menu screen.
- 3. Press to reset a pump fail fault or a solenoid fault.
- 4. Press to reset the level display of the storage tank.



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.

3. Press to reset pump 1 information such as elapsed time meter, run count, pump fail count.

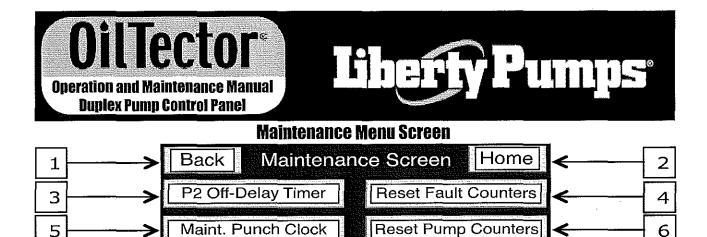
4. Press to reset pump 2 information such as elapsed time meter, run count, pump fail count.



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to reset the high water alarm counts.
- 4. Press to reset the oil alarm counts.
- 5. Press to reset the storage tank high level counts.



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- Pump / Valve Control
- 1. Press to go back to the previous screen.
- Press to return to the home screen.

7

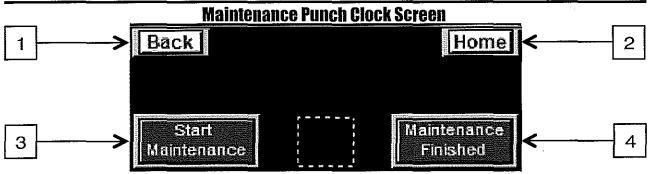
3. Press to go to the pump run off-delay timer setting screen. *Note: This value is how long the pump will run after

Reset Data Log

- 4. the oil alert float drops, if oil is detected. Factory set for (5 sec.)
- 5. Press to go to the fault counters reset screen.
- 6. Press to go to the maintenance punch clock screen.
- 7. Press to go to the pump information reset screen.
- 8. Press to go to the pump hand/auto control screen.
- 9. Press to go to the data log reset screen. *password protected (3333)



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to toggle the Hand / Auto control for the pumps.



- 1. Press to go back to the previous screen.
- 2. Press to return to the home screen.
- 3. Press to start the maintenance punch clock, a stopwatch image will blink while activated.
- 4. Press to stop the maintenance punch clock, the time will then be stored to the USB flash drive if inserted.



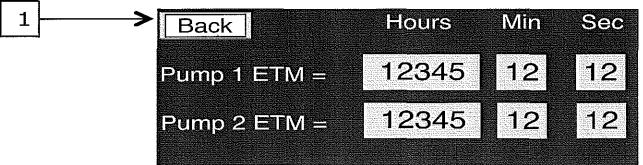
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8





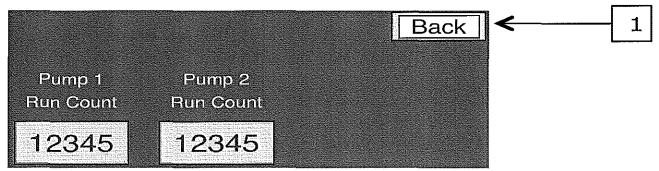
Pump Elapsed Time Meter Screen



1. Press to go back to the previous screen.

2. This screen allows you to view the run time of each pump.

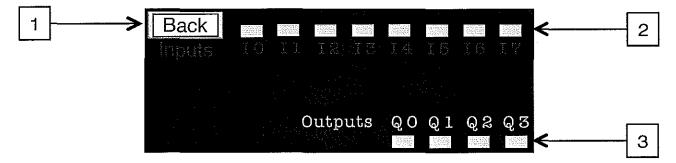
Pump Run Count Screen



1. Press to go back to the main menu screen.

2. This screen allows you to view the pump run counts for each pump.

Input / Output Screen



1. Press to go back to the previous screen.

2. Displays if the input is off or on. "On = Green".

3. Displays if the output is off or on. "On = Green".

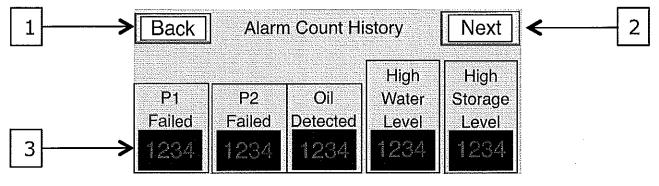


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Liberty Pumps[®]

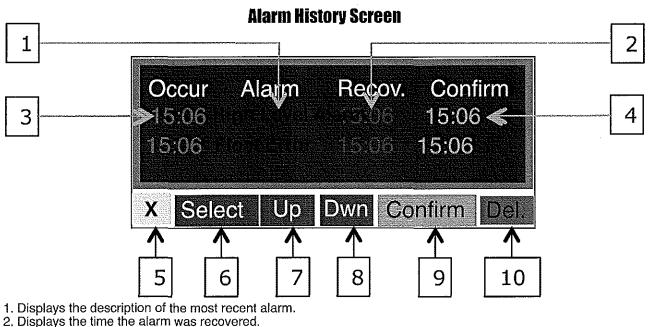
Alarm Count History Screen



1. Press to go back to the previous screen.

2. Press to go view current and past alarm conditions.

3. Displays the alarm count history for the corresponding fault.



- 3. Displays the time that the alarm occurred.
- 4. Displays the time the time the alarm was confirmed/acknowledged.
- 5. Press to go back to the main menu screen.
- 6. Press to highlight the alarm history list. *note: Must press select button before trying to scroll, confirm, or delete alarms from the list.
- 7. Press to scroll up through the alarm history list.
- 8. Press to scroll down through the alarm history list.
- 9. Press to confirm alarm(s).
- 10. Press to delete the alarm that is selected from the list.

*Note: This information can be saved to the USB flash drive if inserted.

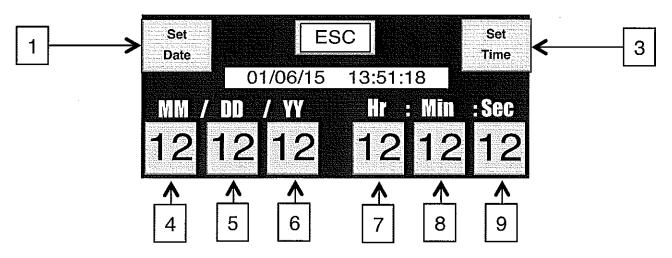


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Date / Time Screen



- 1. Press to set the values from 4,5,6 into the current date.
- 2. Press to go back to the previous screen.
- 3. Press to set the values from 7,8,9 into the current time.
- 4. Press to enter month.
- 5. Press to enter day.
- 6. Press to enter year.
- 7. Press to enter hour. Based on a 24 hour clock
- 8. Press to enter minute.
- 9. Press to enter second.

Data Reset Screen



- 1. Press to go back to the previous screen.
- 2. Press to go back to the home screen.
- 3. Press to delete all alarm and data log values.



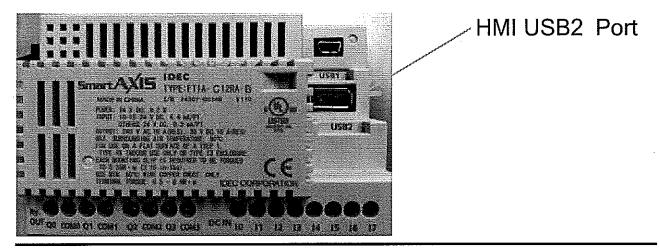
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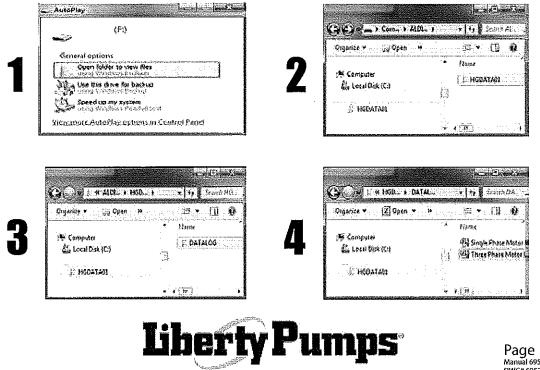
Data Logger

The user can insert a flash drive into the USB2 port on the back of the HMI to retrieve data for the pump and valves. These files are saved as csv. files.



How To View Data

- 1. After inserting the USB into your PC this dialog box will appear open folder to view files.
- 2. Click on the HGDATA01 folder.
- 3. Click on the DATALOG folder.
- 4. Click on which csv. file you want to view.



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Liberty Pumps[®]

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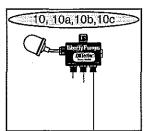
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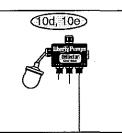
3b

Once Installation is completed, test the operation of the control panel and all essential components.

(16)

- 1a. &1b. Verify Incoming power then power up the control panel.
 2. Navigate to the Maintenance menu enter the password 1001 and then go to pump / valve control.
- 3a. & 3b. Ensure the correct pump starts and stops when corresponding selector is toggled from auto / hand modes.
- 4. Check the motor voltage, amps, and rotation by toggling the auto / hand selector.
- Place all of the selectors into "auto" mode and navigate to the configure oil tank screen.
- 6. Enter the pump gallons per minute from the pump nameplate.
- 7. Select round or rectangle oil storage tank then enter the dimensions of the tank by pressing the corresponding button.
- 8. Navigate to the home screen place pump off / auto into the auto mode.
- Raise storage tank float & verify high storage level alarm activates then lower float & alarm resets after 3 seconds.
- 10. With the probes on the oil sensor out of the water, raise & lower the float on the sensor. Verify the following
 - a. When raised oil detected alarm should activate.
 - b. When raised pump #2 starts
 - c. When raised the oil tank level display should start rising.
 - d. When lowered the pump should run approximately 5 seconds ,or the value of the pump off-delay setting.
 - e. When lowered the oil detected alarm should deactivate.





- Slowly lower the sensor probes into water. When middle probe makes contact with the water the water pump will start.
 - a. Keep slowly lowering the sensor until the short probe is making contact with the water and after 5 seconds the high water alarm should activate.
 - b.Then slowly raise the sensor from the water, the pump should keep running until the long probe is out of the water.

Note: If using a bucket for the test make sure there is a ground wire placed in the water or hold & press the tact switch on the circuit board when lowering probes in water. Release tact switch after all probes are out of the water.



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Trouble Shooting

Possible Cause:

No source power to panel Control breaker turned OFF Pump breaker or disconnect turned OFF Defective contactor Loose level sensor wires Pump failure Oil storage tank is full HMI selector switch is in OFF mode

Action:

Verify source power Turn breaker ON Turn breaker & disconnect ON

Replace contactor Tighten sensor connections Replace defective pump Empty tank and reset HMI fault Select AUTO mode in HMI

Pump runs continuously once started with the sensor

Symptom:

Pump does not start

Induced voltage on sensor wires

Separate sensor cable from pump power, maintain a minimum separation of 2"

Pump turns off before bottom probe

Poor pump or system ground

Verify good ground for system



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Certificate of Compliance

Certificate: 1097876 (082005_0_000)

Project: 70050560

Master Contract: 154610

Date Issued: 2016-03-01

Issued to: Liberty Pumps, Inc. 7000 Apple Tree Ave Bergen, New York 14416 USA Attention: Jeffrey Waterman

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by:

Colín Moorhouse Colin Moorhouse

PRODUCTS

CLASS - C385101 - LIQUID PUMPS CLASS - C385181 - LIQUID PUMPS-Certified to US Standards

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

- <u>PART A</u> Submersible sewage pumps, household, Series LE50 and PSEW50; consisting of Model LE51A/M, PSEW51A/M and LE51LP, rated 115V, 60Hz, 12, 13 or 13.5A and Model LE52A/M, PSEW52A/M and LE52LP, rated 208-230V, 60Hz, 6.8A. Model numbers with "C" suffix use rubber power cords. Suffix "-2" indicates use of 20' or 25' power cords.
- PART B Submersible sewage pumps, household, Series LE40, PSEW40, consisting of Models LE41M/A, PSEW41A/M, LE41LP and C40SW or PSEW41LP rated 115V, 60Hz, 12 or 13A, Models LE42M/A, rated 208/230 V, 60Hz, 6.8A. Model numbers with "C" suffix use rubber power cords Suffix "-2" indicates use of 20' or 25' power cords.
- <u>PART C</u> Submersible sump and effluent pumps, domestic cord connected, Series 250 or SS310, 270 or SS320, rated 120V, 60Hz, 7.9A or 5.2A; consisting of the following models; model numbers may be provided with prefix "P".



Certificate: 1097876 **Project:** 70050560 Master Contract: 154610 Date Issued: 2016-03-01

Model	Alternate Model	<u>Pump</u>	Switch
250	SS310	Cast iron	Switchless
25 1	SS311	Cast iron	Integral switch
252		Cast iron	Vertical switch
253	SS313	Cast iron	Series switch
257	SS314	Cast iron	Vertical magnetic switch
270	SS320	Brass	Switchless
27 1	SS321	Brass	Integral switch
272	-	Brass	Vertical switch
273	SS323	Brass	Series switch
277	SS324	Brass	Vertical magnetic switch

<u>PART D</u> - Oil Resistant Submersible sump pump, intended for use with a Certified/Listed control or for direct wiring into a control panel, Model EV250, rated 115V, 60Hz, 5.2 A; Model EV250HV, rated 230V, 60 Hz, 2.6A.

<u>PART E</u> - Submersible sump and effluent pumps, domestic cord connected, Series 250HV, rated 230V, 60Hz, 2.6A consisting of the following models;

Model	Switch
250HV	Switchless. CSA marked units have no plug-cap.
251HV	Integral float ball switch.
253HV	Series switch, with piggyback plug.
257HV	Integral vertical magnetic switch.

**Note: All models from Parts A through D may have model number suffix "-2" to indicate 20 or 25 foot power cord. Model numbers in Parts C and E with Addfull brand motors may have suffix "-3" to indicate models with 35 foot power cord, and Manual and Integrally Switched models only may have suffix "-5" to indicate 50 foot power cord. Switchless models may have suffix "BL" to indicate plugless models with bare leads for direct wiring to a Certified control device. All models may have power cords shorter than the maximum listed, with a suffix to identify the shorter length, e.g. "-06" for 6 foot length. All automatic models using switch with series plug may have suffix "V" to indicate use of Certified vertical switch mechanism.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 108-14	- Liquid Pumps
UL 778 (5th Edition)	- Motor Operated Water Pumps

DQD 507 Rev. 2012-05-22 Page 2



Certificate of Compliance

Certificate: 1882529 (LR 82005-27)

Project: 2759574

Issued to:

7000 Apple Tree Ave Bergen, NY 14416 USA Attention: Jeffrey Waterman

Liberty Pumps, Inc.

Master Contract:

Date Issued:

January 13, 2015

154610

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Colín Moorhouse

Issued by: Colin Moorhouse

PRODUCTS

CLASS 3851 81 - LIQUID PUMPS - Certified to US Standards CLASS 3851 01 - LIQUID PUMPS

- Submersible Sump Pumps, Series 280, rated 115V, 60Hz, 10A or 8.5A or 8.0A, consisting of the following models 281, 282, 283 and 287.

- Submersible Sump Pumps, Series SS500, consisting of Models SS510, SS511, SS513 and SS514, rated 115V, 60Hz, 10A.

- Drain Pump Kit, Model PAC287, consisting of the Series 280 pump.

- Submersible Sump Pumps, Series 280HV, rated 208/230V, 60Hz, 5A or 4.6A or 4.0A, consisting of the following models 280HV, 281HV, 283HV and 287HV.

- Oil Resistant Submersible sump pumps, intended for use with a Certified/Listed control or for direct wiring into a control panel, Series EV280, rated 115V, 60Hz, 10A or 8.5A or 8.0A, Series EV280HV, rated 208/230V, 60Hz, 5A or 4.6A or 4,0A, consisting of the following models EV280 and EV280HV.

- Series 290 and 290HV, 3/4 HP Submersible Sump and Effluent Pumps. 290 Series pumps rated 115V, 60Hz, 10.4A. 290HV Series pumps rated 208/230V, 60Hz, 5.3A.

Page: 1



Certificate: 1882529 (LR 82005-27)

Master Contract: 154610

Project: 2759574

Date Issued:

January 13, 2015

- Submersible sump pumps, Series 280EF, rated 115V, 60Hz, 8.3A.

- Submersible sump pumps, Series 290EF, rated 115V, 60Hz, 8.9A

- Submersible sump pumps, Series 290HV-2E, rated 220V, 50Hz, 5.6A

Note: Piggyback switch models in any Part of this Report may have suffix "X" to indicate float switch shipped with, but not clamped to pump. Switchless models may have suffix "BL" to indicate plugless models with bare leads for direct wiring to a Certified control device. All models may have power cords shorter than the maximum listed, with a suffix to identify the shorter length, including "-06" for 6 foot length.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 108-14 - Liquid Pumps

UL Std No. 778 (5th Edition) - Motor Operated Water Pumps



Certificate of Compliance

Certificate: 2552866 (LR 82005-21)

Project: 70015138

Issued to: Liberty Pumps, Inc.

7000 Apple Tree Ave Bergen, NY 14416 USA Attention: Jeffrey Waterman Master Contract:

154610

Date Issued:

November 12, 2014

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Colín Moorhouse

Issued by: Colin Moorhouse

PRODUCTS

CLASS 3851 81 - LIQUID PUMPS - Certified to US Standards CLASS 3851 01 - LIQUID PUMPS

Submersible Effluent Pumps, Cord Connected as follows

- Submersible Effluent Pumps, Cord Connected, automatic or switchless, Series FL50, 115 V, single phase units, consisting of the following models:

Model	Volts	HZ	Phase	Amps	Auto/	cCSA	CSAus
				_	Switchless	plug cap	plug cap
FL51A	115V	60	1	12	Auto	Yes	Yes
FL51M	115V	60	1	12	Switchless	Yes	Yes

- Submersible Effluent Pumps, Cord Connected, automatic or switchless, Series FL50, 208-230V, single phase units, consisting of the following models:

Model	Volts	HZ	Phase	Amps	Auto/	cCSA	CSAus
				_	Switchless	plug cap	plug cap
FL52A	208-230V	60	1	6.5	Auto	Yes	Yes
FL52M	208-230V	60	1	6.5	Switchless	No	Optional

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Certificate: 2552866 (LR 82005-21)

Master Contract: 154610

Project: 70015138

Date Issued:

November 12, 2014

- Submersible Effluent Pumps, Cord Connected, automatic or switchless, Series FL70, 208-230V, single phase units, consisting of the following models:

Model	Volts	ΗZ	Phase	Amps	Auto/	cCSA	CSAus
FL72A	208-230V	60	1	10.5	Switchless Auto	plug cap Yes	plug cap Yes
FL72M	208-230V	60	1	10.5	Switchless	No	Optional

- Submersible Effluent Pumps, Cord Connected, Series FL70, 208-230V 3-phase, and 440-480V 3-phase units, consisting of the following models:

Model	Volts	ΗZ	Phase	Amps	Auto/ Switchless	cCSA plug cap	CSAus plug cap
FL73M	208-230V	60	3	7.5	Switchless	No	No
FL74M	440-480	60	3	3.5	Switchless	No	No

- Submersible Effluent Pumps, Cord Connected, automatic or switchless, Series FL60, 208-230V single phase, 208-230V 3-phase, and 440-480V 3-phase units consisting of the following models:

Model	Volts	HZ	Phase	Amps	Auto/ Switchless	cCSA plug cap	CSAus plug cap
FL62A	208-230V	60	1	8.2	Auto	Yes	Yes
FL62M	208-230V	60	1	8.2	Switchless	No	Optional
FL63M	208-230V	60	3	5.6	Switchless	No	No
FL64M	440-480	60	3	2.8	Switchless	No	No

Submersible Effluent Pumps, Cord Connected, Series FL74-_E, 380-415V, 50Hz, 3-phase units, consisting of the following models:

Model	Volts	HZ	Phase	Amps	Auto/ Switchless	Plug cap
FL74ME	380-415V	50	3	2.6	Switchless	No

Submersible Effluent Pumps, Cord Connected, automatic or switchless, Series FL64-_E, 200V, 50Hz, single phase, and 400V, 50Hz 3-phase units consisting of the following models:

Model	Volts	HZ	Phase	Amps	Auto/ Switchless	Plug cap
FL64ME	380-415V	50	3	2.5	Switchless	No

Notes:

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Certificate: 2552866 (LR 82005-21)

70015138

Project:

Master Contract: 154610

Date Issued:

November 12, 2014

1) All models from Parts A thru G may have model number suffix "-2" to indicate 20 or 25 foot power cord, or suffix "-3" to indicate 35 foot power cord. Alternate suffixes may be used to indicate shorter cord lengths, Suffix -1 is used optionally to indicate use of 10 foot power cord. Models FL73M and FL74M as per Part D of this report and models FL63M and FL64M as per Part E of this report may have power cords to 50 feet as designated with suffix "-5." Alternate suffixes may be used to indicate shorter cord lengths. Units without plugcap may have suffix "BL"

2) Series FL50 and FL60 as described in this Report utilize constructions that supersede those as per Report 154610-1779578 (LR82005-21), effective with serial numbers (configuration codes) commencing with prefix B78.

3) Final suffix E is used to indicate 50Hz rated models.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 108-14 - Liquid Pumps

UL Std No. 778 (5th Edition) - Motor Operated Water Pumps

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P.O. Box 420 420 N State Rd 25 Rochester, IN 46975 Toll Free (800) 354-4534 (574) 223-3681 Fax (574) 223-6106 E-mail: <u>toppindustries@toppindustries.com</u> Web-site: <u>www.toppindustries.com</u>

Fiberglass Basin (wet well) Short Specification

The resins used shall be commercial grade polyester and shall be evaluated as a laminate test or determined by previous service to be acceptable for the intended environment.

The reinforcing material shall be a commercial grade of glass fiber (continuous strand, chopped-strand, continuous mat and/or non-continuous mat) having a coupling agent, which will provide a suitable bond between the glass reinforcement material and resin.

The FRP* laminate wall thickness shall vary with the wet well height to provide the aggregate strength necessary to meet the tensile and flexural physical properties requirements. The wet well FRP* wall laminate must be designed to withstand wall collapse or buckling based on:

- Hydrostatic pressure of 62.4 lbs. per square foot
- Saturated soil weight of 120 lbs. per cubic foot
- Soil modulus of 700 lbs. per square foot
- Pipe stiffness values as a specified in ASTM D3753.

The wet well FRP* laminate must be constructed to withstand or exceed two times the assumed loading on any depth of the wet well.

The finished FRP* laminate will have a Barcol hardness of at least 90% of the resin manufacturer's specified hardness for the fully cured resin. The Barcol hardness shall be the same for both the interior and exterior surfaces.

The wet well top flange (cover flange) shall have on outside diameter 2inches (min.) greater than the inside diameter of the wet well. A four or six bolthole pattern shall accommodate the mounting of a cover with at least 1/4" diameter 300 series Stainless Steel fasteners.

The following non-corroding threaded inserts are expectable for use:

• Non-corroding Stainless Steel threaded inserts shall be fully encapsulated with non-continuous mat or chopped-strand glass strand reinforcement. The inserts shall have an offset tab to prevent stripping or spinning out when removing and reinserting cover fasteners.

*Fiberglass Reinforced Polyester

140/115/130/98

Petition Application for Certificate of Acceptability Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes P.O. Box 30255, Lansing, MI 48909 www.michigan.gov/bcc

			Agency Use Only
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Authority: 1972 PA 230		LARA is an equal opportunity employer/program. Auxiliar	
Penalty: Feilure to provide the Information	may result in denial of your request.	are available upon request to individuals with disabilities	·
CODE UNDER WHICH APPROVAL IS SOUGH	IT (Limited to One Code Per Pelliton)		
Building (140)	Electrical (115)	Mechanical (130)	Plumbing (98)
APPLICANT INFORMATION (Note	All correspondence will be se	ant to this address)	
NAME OF COMPANY			
Northern Concrete Pipe. Inc.			
APPLICANT NAME			· · · · · · · · · · · · · · · · · · ·
John E. Balogh			
ADDRESS			TELEPHONE NUMBER (Include Area Code)
401 Kelton Street			(989) 892-3545
CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)
Bay City	Mi.	48706	(989) 892-3533

Instructions for Petition Application for Acceptability

Nature of Petition: Check only one box. A component is a preassembled unit of different materials or products that will be incorporated into a building.

Code Under Which Approval is Sought: Check only one box. If there are requirements in 2 or more codes for the approval sought, an additional petition and fee must be submitted.

Name: Provide the name of the material, product, or method/manner of construction or installation.

Other identification: Provide the model numbers.

Description: Provide a description of the material, product, method or component.

Intended Use: Give a brief description of how the product is incorporated into a building or structure and its purpose.

Laboratory Test and/or Evaluation By: List all tests performed and provide copies as listed above.

Pllot Service Experience and Conditions: Provide report of finding as listed above.

Restrictions for Use: Identify any restrictions or conditions of use.

Other: Any documentation or description necessary to demonstrate why this application should be

U.S. Postal Service Michigan Dept. of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division-Electrica) Division, Mechanical Division or Plumbing Division Please address Building approvals to Plan Review Division) P.O. Box 30255 Lansing, MI 46909

Courler Other Than U.S. Postal Service Michigan Dapt. of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building approvals to Plan Review Division) 1st Floor Ottawa Bidg. 611 W. Ottawa St. Lansing, MI 48933

JUN 3 0 2016

PLUMBING DIVISION

TranInfo;79 21425003-1 06/28/16 ChkN: 160826 Amt; \$1,000.00 TO: NORTHERN CONCRETE FIPTE INC

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BCC-247 (07/16) Page 1

1.0 ¹. 5 T

APPROVAL REQUESTER		
NATURE OF PETITION (Limited to		
Material NAME OF MATERIAL, PRODUCT,	OR METHOD/MANNER OF CONSTRUCTION OR INSTALLATION	Method/Manner of Construction or Installation
Precast Concrete Gr		
OTHER IDENTIFICATION (Model)	•	
500, 750, 1000, 1500), 2000, 2500, 3000, 3500, 4000 gallon	
DESCRIPTION (Use Additional Sh		
Remove grease/oil fr	om the wastewater stream prior to treatme	ent.
INTENDED USE (Use Addillonel S		
Treat kitchen wastew volumes of kitchen w		hospitals, schools and other institutions with large
DATA SUBMITTED	······································	
 ☑ Letter ☑ Manual ☑ Standards ☑ Installation Instructio ☑ Display Catalog 	SBCC NRB Other	Product Sample or Model Prior Approvals by Other Agencies Recommendations by Model Code Bodies Laboratory Test/Evaluation
LABORATORY TEST AND/OR EV	formace / Delta Engineering Structural	
	ND CONDITIONS (Use Additional Sheete If Necessary)	· · · · · · · · · · · · · · · · · · ·
RESTRICTIONS FOR USE (Use A	ddillonal Sheete If Necessary)	
	nMA	DATE 6/23/2016

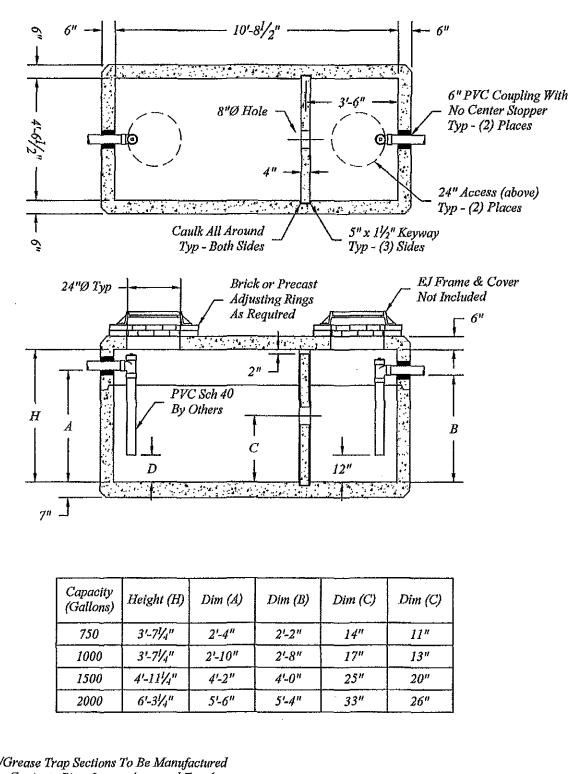
BCC-247 (07/15) Page 2



Submittal Package

By: John E. Balogh



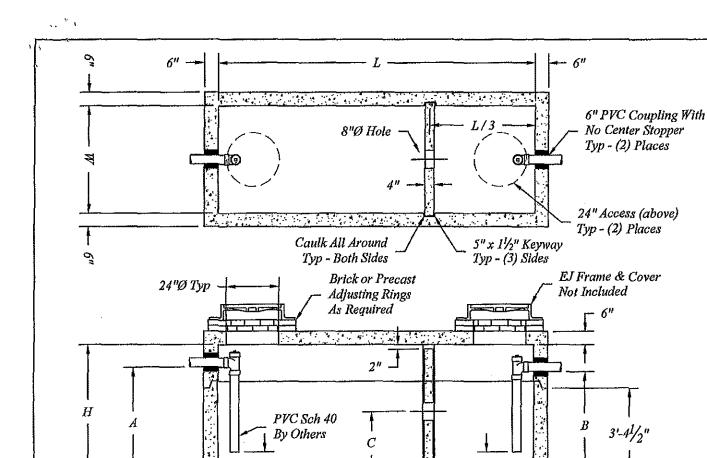


- 1. Interceptor/Grease Trap Sections To Be Manufactured By Northern Concrete Pipe, Inc. or Approved Equal per AASHTO 17th Ed. and ASTM C-1613-10 Specifications w/HS-20 Loading and 0.0' to 3.0' of Earth Cover.
- 2. Concrete: 5000psi @ 28 Days

 $\langle \cdot \rangle$

- 3. Reinforcement per ASTM A-615 & A-185.
- 4. Cover To Be Sealed w/11/2" EZ-Stik or Equal.
- 5. Pipe & Fittings For Inlets & Outlets Are Not Included.





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Capacity (Gallons)	Length (L)	Width (W)	Height (H)	Dim (A)	Dim (B)	Dim (C)	Dim (D)
500	6'-0"	5'-0"	3'-71/2"	2'-5"	2'-3"	15"	11"
750	7'-0"	6'-0"	3'-7!/2"	2'-7"	2'-5"	15"	12"
1000	9'-0"	6'-0"	3'-7!/2"	2'-8"	2'-6"	15"	12"
1500	14'-0"	6'-0"	3'-71/2"	2'-7"	2'-5"	15"	12"
1500	6'-0"	6'-0"	6'-6"	5'-9"	5'-7"	33"	27"
2000	11'-0"	6'-0"	5'-0"	4'-3"	4'-1"	24"	20"
2000	8'-0"	6'-0"	6'-6"	5'-9"	5'-7"	33"	27"
2500	14'-0"	6'-0"	5'-0"	4'-2"	4'-0"	24"	20"
2500	10'-0"	6'-0"	6'-6"	5'-9"	5'-7"	33"	27"
2000	16'-0"	6'-0"	5'-6"	4'-5"	4'-3"	25"	21"
3000	12'-0"	6'-0"	6'-6"	5'-9"	5'-7"	33"	27"
2500	16'-0"	6'-0"	6'-0"	5'-1"	4'-11"	30"	24"
3500	13'-0"	6'-0"	7'0"	6'-2"	6'-0"	36"	29"
1000	16'-0"	6'-0"	6'-6"	5'-9"	5'-7"	33"	27"
4000	15'-0"	6'-0"	7'-0"	6'-2"	6'-0"	36"	29"

1. Interceptor/Grease Trap Sections To Be Manufactured By Northern Concrete Pipe, Inc. or Approved Equal per AASHTO 17th Ed. and ASTM C-1613-10 Specifications w/HS-20 Loading and 0.0' to 5.0' of Earth Cover.

- 2. Concrete: 5000pst @ 28 Days
- 3. Reinforcement per ASTM A-615 & A-185.
- 4. Cover To Be Sealed w/11/2" EZ-Stik or Equal.
- 5. Pipe & Fittings For Inlets & Outlets Are Not Included.

500 - 4000 Gallon Precast Concrete Interceptors

12"



Northern Concrete Pipe

1-800-222-9918 Bay City, Michigan

Grease Interceptor Installation Guide

- **1.** Excavate a proper OSHA approved pit for the placement of the Grease Interceptor.
- 2. Place a 6" thick level bed of sand compacted to the specifications provided by your engineer.
- 3. With properly sized OSHA approved lifting equipment and tackle, usually consisting of coffee pots/lift pins, hooks & cables of proper length & capacity, hoist the grease interceptor base section into the pit and place it, with the proper orientation per the approved set of shop drawings and engineer approved plan set for the project, so that it is plumb vertically and level horizontally.
- 4. Install project piping and sealed pipe connections, in the proper layout, as specified per the approved set of shop drawings and engineer approved plan set for the project.
- 5. Hoist the weir wall into the base section if applicable.
- 6. Seal the joints of the weir wall with engineer approved joint sealer if applicable.
- 7. Clean any debris from the base section joint surface.
- 8. Apply butyl material to the base section joint surface.
- 9. Hoist cover of grease interceptor onto the base section.
- **10**.Apply exterior waterproofing to the joint and lifting holes as specified per the engineer.
- **11.**Backfill evenly around the grease interceptor, on all 4 sides, with 12" lifts of sand compacted to the specifications provided by your engineer.
- **12.**Congratulations! You are now ready to start using your new grease interceptor.

<u>Disclaimer</u>: The guideline instructions offered in this manual do not claim or imply that all project related safety precautions, if any, associated with the use or installation of the grease interceptor, have been addressed. It is the contractor's responsibility to determine the proper OSHA approved safety precautions and practices, proper environmental and health practices, and proper regulatory requirements required for the installation and use of the grease interceptor.

The use of these guideline instructions does not guarantee the proper performance and function of the grease interceptor but merely provides the general outline of how to install the grease interceptor on your project. Thank you for choosing Northern Concrete Pipe.

11/20/2015 MRZ

Project Number: 2007.015.003 Page 1 of 15

DESIGN COMPUTATIONS FOR

Precast Underground Tank, Michigan

Grease Trap Design HS-25

11'-8 1/2" x 5'-6 1/2" Form

PREPARED FOR:

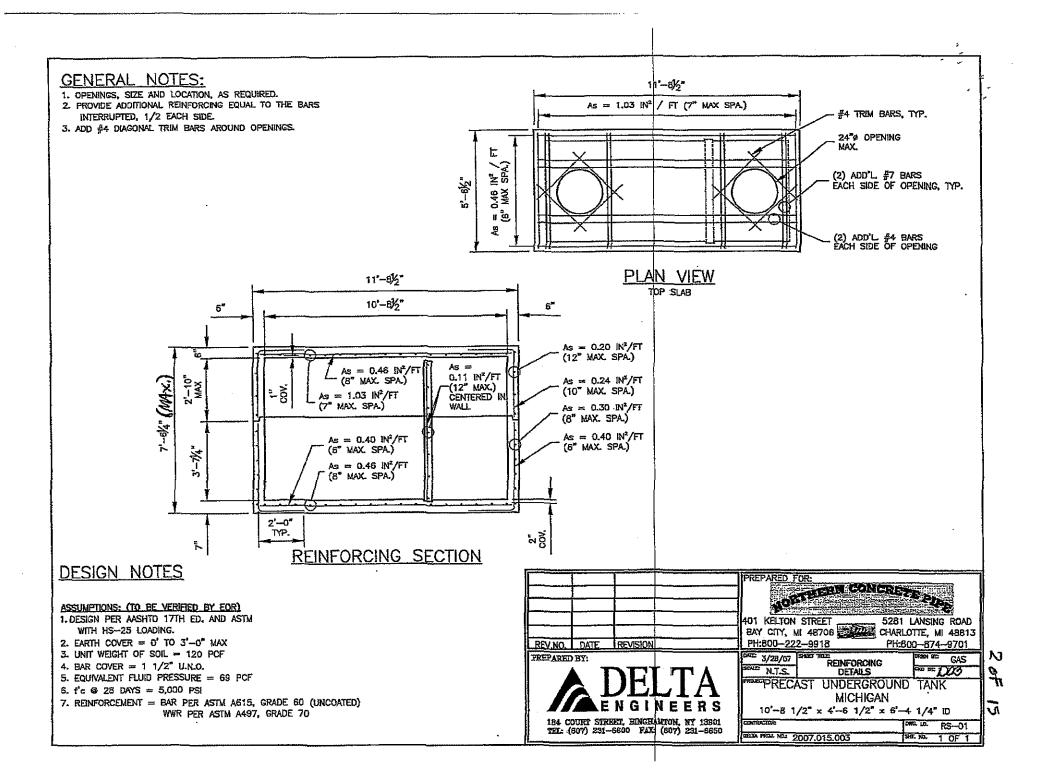
Northern Concrete Pipe, Inc. 401 Kelton Street Bay City, Michigan 48706

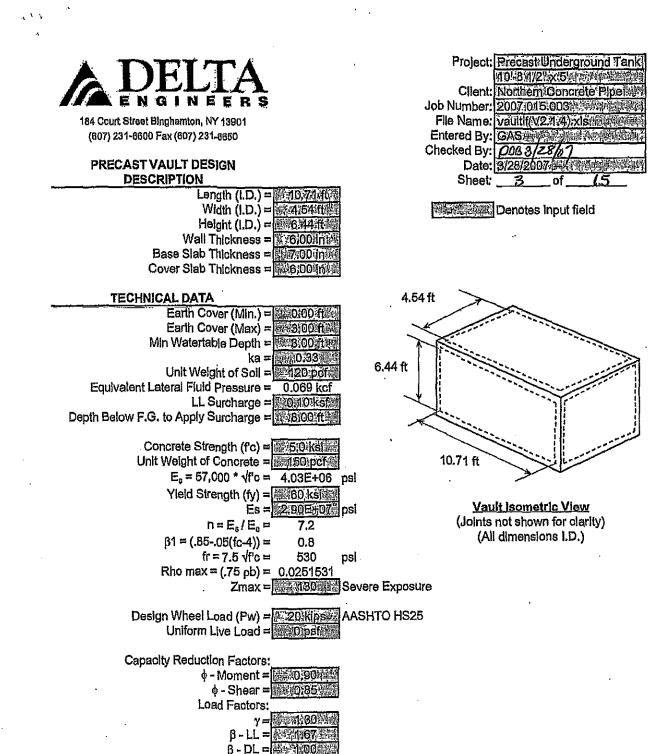
PREPARED BY:



184 Court Street, Binghamton, New York 13901 TEL: 607-231-6600 FAX: 607-231-6650 EMAIL: precast@deltaengineers.com INTERNET: www.deltaengineers.com







References:

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

2, "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

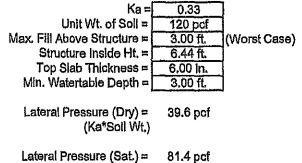
4. "Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures" – ASTM C890

β - EL = 361160



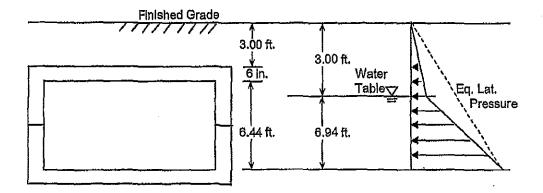
EQUIVALENT LATERAL FLUID PRESSURE:

Project:	Precast Underground Tank 10'-8 1/2" x 5'					
Job #:	2007.01		_			
Sheet:	<u>4</u>	of				
By;	GAS	Date	3/28/2007			
Chk By:	003	Date	3/08/07			



(Ka*(Soll Wt.-62.4pcf)+62.4pcf)

Equivalent Lateral Pressure = 68.8 pcf



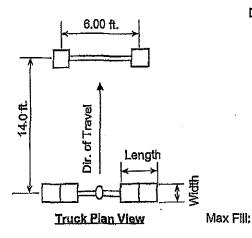


Project:	Precast 10'-8 1/2	Undergrou	und Tank
Job #: Sheet:	2007.01 5		15
By: Chk By:	GAS	Date Date	3/28/2007 3/28/07

Determine Uniform Load From Wheel Live Load for Various Fill Depths

Distance Between CL of Wheel and CL of Truck

Distribution Length = $1.75 ext{ x Depth of Fill + Length of Dual Wheel Dimensions}$ Distribution Width = $1.75 ext{ x Depth of Fill + Width of Dual Wheel Dimensions}$



Dual Wheel	Dimensions:

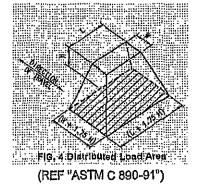
Length Width 1.67 ft. 0.83 ft. A/

0.83 ft AASHTO 3.30

Distrib.	Distrib.	Lengths	DLA	Uniform
Length	Width	Overlap?	ft^2_	Load psf
6.92	6.08	YES	42.1	475:4
7.80	6.96	YES	95.9	416.9
8,67	7.83	YES	114,9	348.2
9.55	8.71	YES	135,3	295.6
10.42	9.58	YES	157.3	254.3
11.30	10.46	YES	180.8	221.2
12,17	11.33	YES	205.9	194.3
13.05	12,21	YES	232.4	172,1
13.92	13.08	YËS	260.6	153.5
14,80	13.96	YES	290.2	137.8
6.92	6,08	YES	78,6	509.2
	6.92 7.80 8.67 9.55 10.42 11.30 12.17 13.05 13.92 14.80	Length Width 6.92 6.08 7.80 6.96 8.67 7.83 9.55 8.71 10.42 9.58 11.30 10.46 12.17 11.33 13.05 12.21 13.92 13.08 14.80 13.96	Length Width Overlap? 6.92 6.08 YES 7.80 6.96 YES 8.67 7.83 YES 9.56 8.71 YES 10.42 9.58 YES 11.30 10.46 YES 12.17 11.33 YES 13.05 12.21 YES 13.92 13.08 YES 14.80 13.96 YES	Length Width Overlap? ft^2 6.92 6.08 YES 42.1 7.80 6.96 YES 95.9 8.67 7.83 YES 114.9 9.56 8.71 YES 135.3 10.42 9.58 YES 157.3 11.30 10.46 YES 180.8 12.17 11.33 YES 205.9 13.05 12.21 YES 232.4 13.92 13.08 YES 260.6 14.80 13.96 YES 290.2

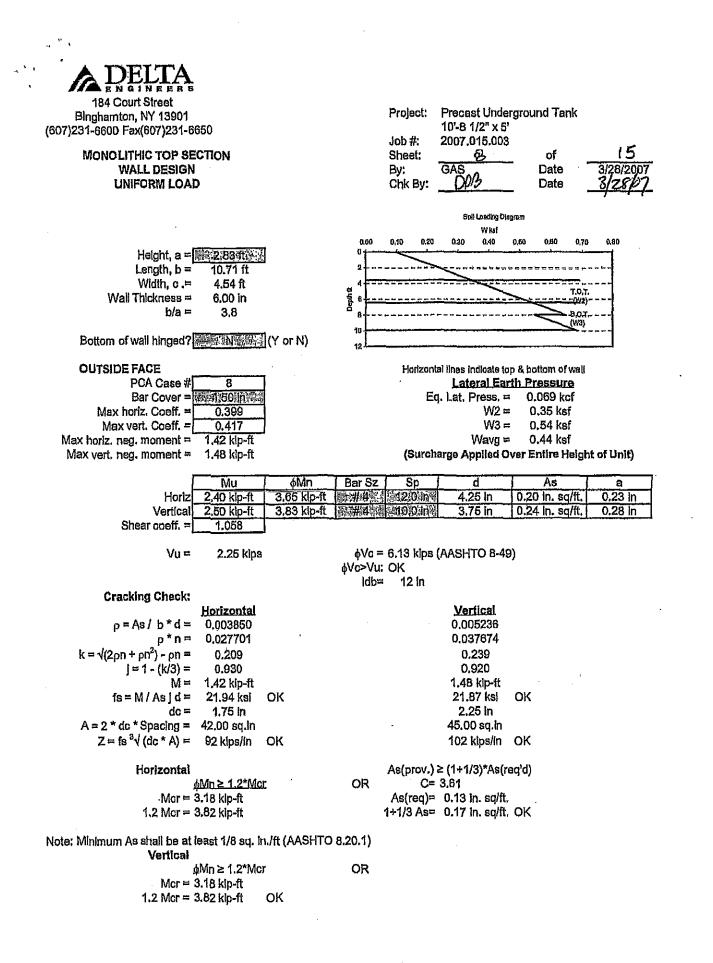
Design Min Fill =	3.00 ft	42.1	475.4
Design Max FIII =	3.00 ft	42.1	475.4

Note: If design fill < 3', design using concentrated load case



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184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650			Project:	Precast Under 10'-8 1/2" x 6'	ground	Tank
COVER SLAB DESIGN AASHTO 3.24.6			Job #: Sheet: By: Chk By:	2007.015.003 GAS	of Date Date	15 3/28/2007 3 28/01
Length (I.D.) = Width (I.D.) = Wall Thickness = Slab Thickness = Earth Cover = Bar cover =	The second s					
Impact ≓	₩¥41,300					
Span (s) = Dead Loads: Soll = Concrete = Additional Uniform Dead Load = Total (wdl) =	One Way Sla 5.04 ft 0.12 ksf 0.08 ksf 0.000ksf 0.20 ksf	-				
2-Way slab fac. (Distributed) = 2-Way slab fac. (Concentrated) = Mdl=wdl $i^2/8*(2-way slab factor) =$ e = 4+.06S = p = (Pw* impact) / e = Mil = ps/4*(2-way slab factor) =	1.000 1.000 0.62 kip-ft 4.30 ft 6.04 kips/ft 7.62 kip-ft	(AASHTO 3.24.6.	1)			
$Mu = \gamma[\beta_{(L+1)} * M11 + \beta_{D} * Md1] =$	17.34 kip-ft					
d =	4.56 In					
Req. Bar Size and Spacing Short Span; As =	1.03 ln. sq/ft	Use 🗟 🛲 🏹	@	高岸10间高州		
Distribution Steel=.As/Span^.5=	0,46 in. sq/ft	Use s #5%	@	8.0 in		
p=As/b*d= p*n= <u>Flexure Check</u> :	0.01882804 0.13547002	ſ				
a = AsFy / 0.86fcb ≕ ¢Mn = ¢*As*Fy*(d-(a/2)) = <u>Gracking Check:</u> k = √(2pn + pn ²) - pn =	1.213 in 18.35 klp-ft	OK				
k = y(2pn + pn) - pn = j = 1 - (k/3) = M = Mdi + Mil = fs = M / As j d =	0.402 0.866 8.24 kip-ft 24.27 ksi	OK				•
dc = A = 2 * dc * Spacing =	1.438 (n 20.1 sq.in					
$Z = fs^3 \sqrt{(dc * A)} =$ Note: Shear considered satisfactory per A	74 kips/In ASHTO 3.24	OK				
Check minimum reinforcement regulreme						•
Note: Minimum As shail be at least 1/8 so		TO 8.20.1)				
1.2 Mor = 1		OK .				

184 Court Street Project: Precast Underground Tank Binghamton, NY-13901 10'-8 1/2" x 5' (607)231-6600 Fax(607)231-6650 2007.015.003 Job #: 5 COVER SLAB DESIGN Sheet: 7 of UNIFORM LIVE LOAD Date 3/28/20 By: Date MAX FILL Chk By: ASTM C890 Length (I.D.) = 10.71 ft. Width (I.D.) = 4.54 ft. 6,00 ln Wall Thickness = Slab Thickness = 6,00 in Earth Cover = 3.00 ft. Bar cover = 展现12001的编纂 **One Way Slab** 6.04 ft. Span 🛱 Dead Loads: Soil = 0.36 ksf Concrete = 0,08 ksf Additional Uniform Dead Load = 30.00 kst Total (wdl) = 0,44 ksf (AASHTO 3.24.6.1) 2-Way slab fac. (Distributed) = 1,000 Mdl=wdl i2 / 8 * (2-way slab factor) = 1.38 klp-ft DLA = 42.07 sf WII =0.48 ksf $M||=w|||^2/8 + (2-way slab factor) = 1.51 klp-ft$ $Mu = \gamma[\beta_{(L+D} * Ml] + \beta_D * Mdl] =$ 5.08 klp-ft 4.56 In d = Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use and the 编录**开**04时与 3 Ø Distribution Steel=.As/Span^.5= 0.46 in. sq/ft. Use Eat 5 se 8.0 in ര $\rho = As / b * d = 0.01882804$ p*n = 0.13547002Flexure Checke a = AsFy / 0.85fcb = 1,213 in ϕ Mn = ϕ *As*Fy*(d-(a/2)) = 18.35 kip-ft OK Cracking Check: k = √(2pn + pn²) - pn ≃ 0.402] = 1 - (k/3) =0.866 M = MdI + MII =2.89 klp-ft fs = M / Asjd = 8.52 ksl OK 1.438 in dc = A = 2* do * Spacing = 20.1 sq.in $Z = fs^3 \sqrt{(dc * A)} =$ 26 klps/in OK Shear Check $Vu@d = \gamma[\beta LL^*Wll + \beta DL^*Wdl] *$ [(span/2) - d] = 3.42 kips/ft(AASHTO B-49) φVo = 6.58 klps/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8,20.1) ¢Mn ≥ 1.2*Mor Mor = 3.18 kip-ft 1.2 Mor = 3.82 kip-ft OK





Project:	Precast Underg 10'-8 1/2" x 5'	round Tank	
Job #: Sheet:	2007.015.003 9	of	15
By: Chk By:	GAS	Date Date	3/28/2007

INSIDE FACE

Bar Cover =	1年。8:50 in 時間
Max horiz.Coeff. =	0.069
Max vert. Coeff. =	0,011
Mex horiz, pos, moment =	0.25 kip-ft
Max vert. pos. moment =	0.04 kip-ft

Mu	φMn	Bar Sz Sp	d	As	а
Horiz 0.41 klp-ft	1.44 kip-ft	約#¥編4]。12.01mg	1.75 ln	0.20 in. sq/ft.	0,23 ln
Vertical 0.06 kip-ft	2.24 kip-ft	算研報回到DIOI的考	2.25 in	0.24 in. sq/ft.	0.28 In

Cracking Check:

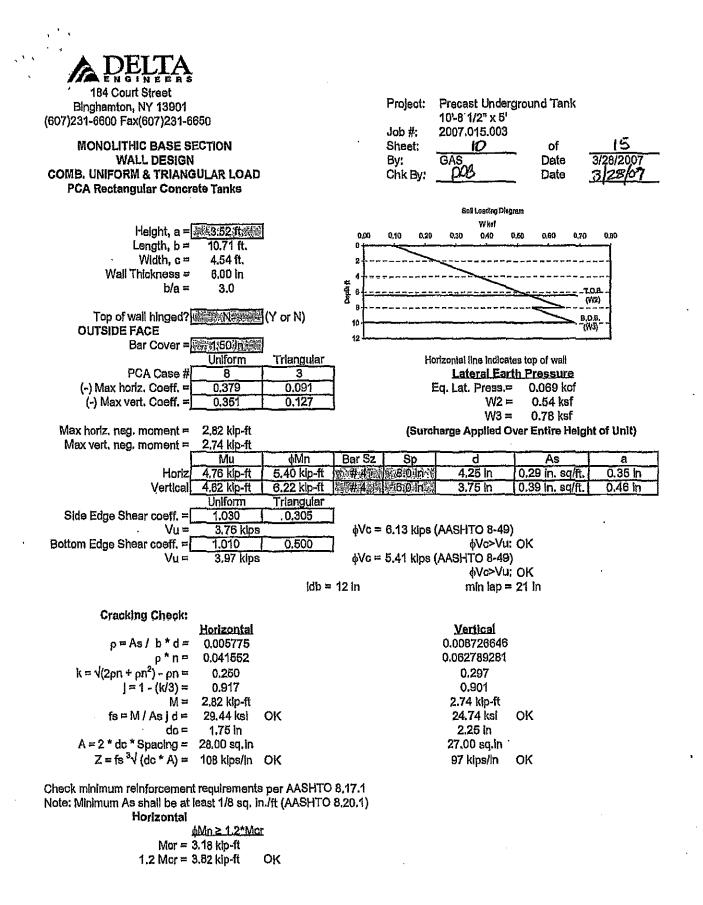
	Horizontal				Vertical	
p=As/b*d≕	0,009350				0.008727	
p*n=	0.067274				0.062789	
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n =$	0.306				0.297	
1 = 1 - (k/3) =	0.898				0.901	
M =	0,25 kip-ft				0.04 kip-ft	
fs≃M/Asjd≔	9,54 ksi	OK			0.97 ksl	OK
dc =	2,25 in				2.25 in	
A = 2 * dc * Spacing =	54.00 sq.in				45.00 sq.in	
Z = fs ^s √ (dc * A) =	47 kips/in	OK			4 kips/in	ок
Horizontal						
!	<u> ∮Mn ≥ 1.2*M</u> c	r	OR	As(prov.) 2	: <u>(1+1/3)*As(</u> r	ed,q)
Mor = 3	3.18 kip-ft			C= 1	1.49	
1.2 Mor = 1	3.82 kip-ft			As(req)≃	0.05 in. sq/ft	•
1	-			1+1/3 As=	0,07 In. sq/ft	. OK

Vertical Mcr = 3,18 klp-ft 1,2 Mcr = 3,82 klp-ft

	As(raq)= 0.05 in. sq/ft. 1+1/3 As= 0.07 in. sq/ft. OK	
OR	<u>As(prov.) ≥ (1+1/3)*As(req'd)</u> C= 1.91	
	As(reg)= 0.01 in. sq/ft.	
	1+1/3 As= 0.01 in. so/ft. OK	

Note: Minimum As shall be at least 1/8 sq. In./It (AASHTO 8.20.1)

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Project:	Precast Underground.Tank			
	10'-8 1/2" x 5'			
Job #:	2007,015.003		_	
Sheet:	(I	of	15	
By:	GAS	Date	3/28/2007	
Chk By:	009	Date	3/28/67	

Check minimum reinforcement requirements (cont.)

Vertical

<u>¢Mn ≥ 1,2*Mcr</u> Mcr = 3,18 kip-ft 1.2 Mcr = 3,82 kip-ft OK

INSIDE FACE Bar Cover =	響8:50mma	
	Uniform	Triangular
PCA Case #	8	3
(+) Max horiz. Coeff. =	0.089	0.024
(+) Max vert. Coeff. =	0,018	0.011
Max horiz, pos, moment =	0.67 kip-ft	
Max vert. pos. moment =	0,15 kip-ft	

	Mu	φMn	Bar Sz	Sp	d	As	a
Horiz	1.13 klp-ft			一名10前号		0.29 in. sq/ft.	0,35 ln
Vertical	0.26 kip-ft	3.57 kip-ft	鐵建4號	治610 前南	2,25 in	0.39 In. sq/ft.	0,46 ln

Cracking Check:

<u>Horizontal</u>		
0.014025		
0,100911		
0,360		
0.880		
0.67 kip-ft		•
17.70 ksi	OK	
2,25 In		
36.00 sq.ln		
76 kips/in	OK	
	0,014025 0,100911 0,360 0.880 0,67 klp-ft 17.70 ksi 2,25 in	0,014025 0,100911 0,360 0.880 0,67 kip-ft 17.70 ksi OK 2,25 in 36,00 sq.in

Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1)

Horizontal

<u>∲Mn ≥ 1.2*Mcr</u> Mcr = 3.18 klp-ft

1.2 Mor = 3.82 klp-ft

Vertical <u>
∲Mn ≥ 1,2*Mcr</u> Mor = 3.18 klp-ft

1.2 Mcr = 3.82 klp-ft

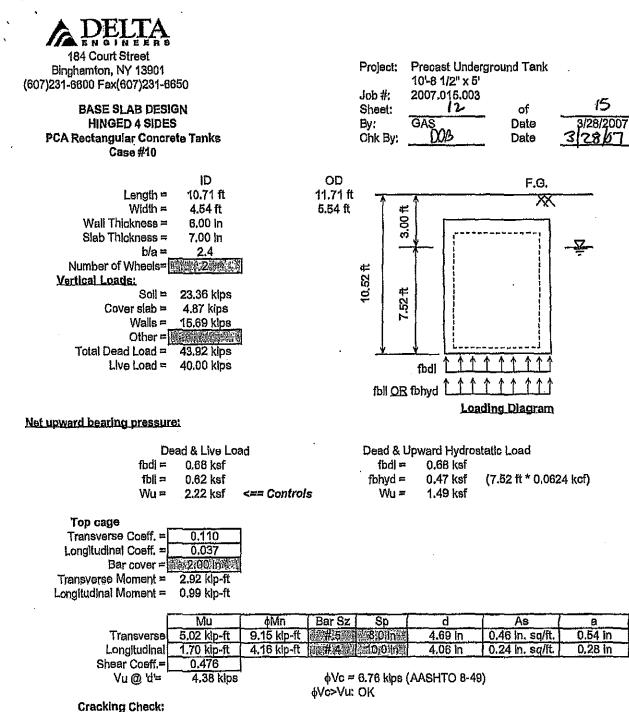
OR <u>As(prov.) ≥ (1+1/3)*As(req'd)</u> C= 1.49 As(req)= 0.15 in. sq/ft. 1+1/3 As= 0.20 in. sq/ft. OK

Vertical 0.01454441 0.104646802 0.365 0.878 0.15 kip-ft 2.38 ksi

2,25 in 27.00 sq.in 9 kips/in OK

OK

OR <u>As(prov.) ≥ (1+1/3)*As(req'd)</u> C= 1.91 As(req)= 0.03 in. sq/ft. 1+1/3 As= 0.03 in. sq/ft. OK



	Transverse	
ρ=As/b*d⊨	0,008181	
p*n=	0.058865	
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n =$	0.289	
] = 1 - (k/3) =	0.904	
M =	2,92 kip-ft	
fs⊨Mi/Asjd ≕	18.00 ksl	OK
dc =	2.31 In	
A = 2 * dc * Spacing =	37.00 sq.ln	
$Z = fs^{3}\sqrt{dc * A} =$	79 kips/in	ок

<u>Longitudinal</u> 0.004833 0.034776

0.004110	
0.231	
0.923	
0,99 klp-ft	
11.68 ksl	ОК
2.25 in	
45.00 sq.in	
54 kips/in	ОК



Project:	Precast Underground Tank				
-	10'-8 1/2" x 5'				
Job #:	2007,015.003		میں		
Sheet:	13	of	15		
By:	GAS	Date	3/28/2007		
Chk By:		Date	328/07		

Longitudinal: <u> ¢Mn ≥ 1.2*Mcr</u> Mor = 4.33 kip-ft 1.2 Mcr = 5.20 kip-ft

OR

<u>As(prov.) ≥ (1+1/3)*As(req'd)</u> C= 3.45 As(req)= 0.09 in. sq/ft. 1+1/3 As= 0.13 in. sq/ft. OK

Project:	Precast Undergr 10'-8 1/2" x 5'	ound Tank	
Job #:	2007.015.003		15
Sheet:	14	of	
By:	GAS	Date Date	3/28/2007
Chk By:		Date	0000

Required Safety Factor for Buoyancy Base extension - short side Base extension - long side Base length 11.71 ft Base width 5.54 ft

184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650

> BUDYANCY CHECK (Structure @ Grade)

Downward Forces:

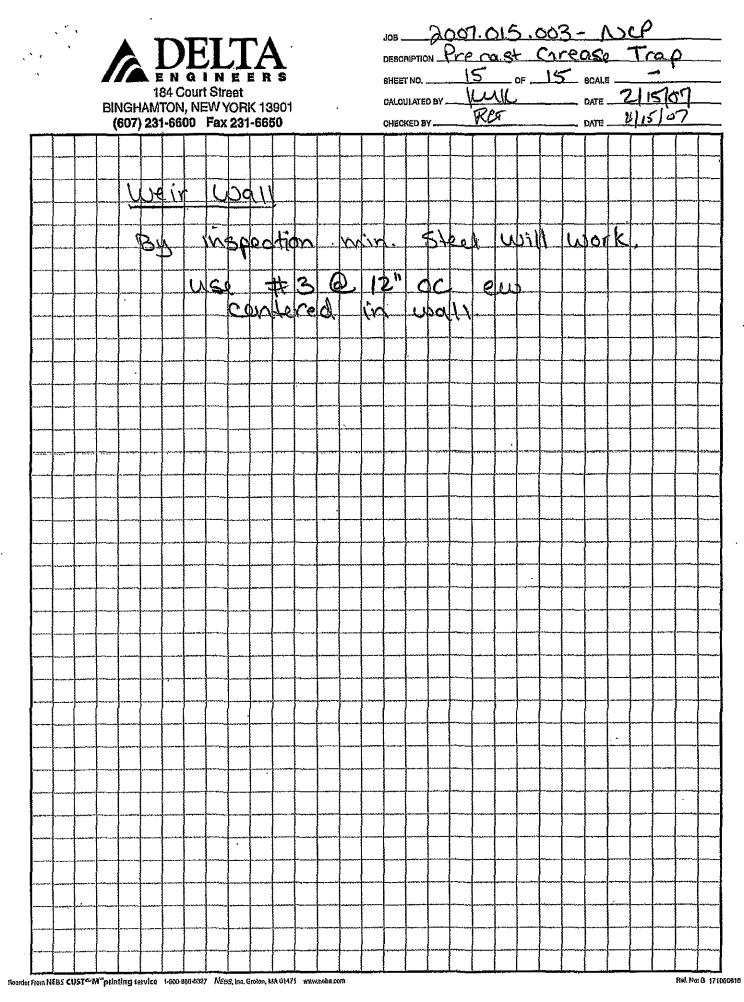
(Based Upon 000 Ell)

Soli 0.00 kips Cover 4.87 kips Walls 15.69 kips Base slab 5.68 kips Soli over base extension 0.00 kips Soli Wedge 0.00 kips Other 0.00 kips Total 26.24 kips

Upward Buoyant Force: 18.30 klps

Difference = 7.93 kips

Safety factor = 1.43 OK



Project Number: 2009.015.019 Page 1 of 70

DESIGN COMPUTATIONS FOR

.. .

Standard Vault Designs HS-20 & HS-25 Live Loading 6' Span x 16' Max. x 7' ID Precast Vault

PREPARED FOR:

Northern Concrete Pipe Inc 401 Kelton Street Bay City, Michigan 48706



184 Court Street, Binghamton, New York 13901 TEL: 607-231-6600 FAX: 607-231-6650 EMAIL: precast@deltaengineers.com INTERNET: www.deltaengineers.com





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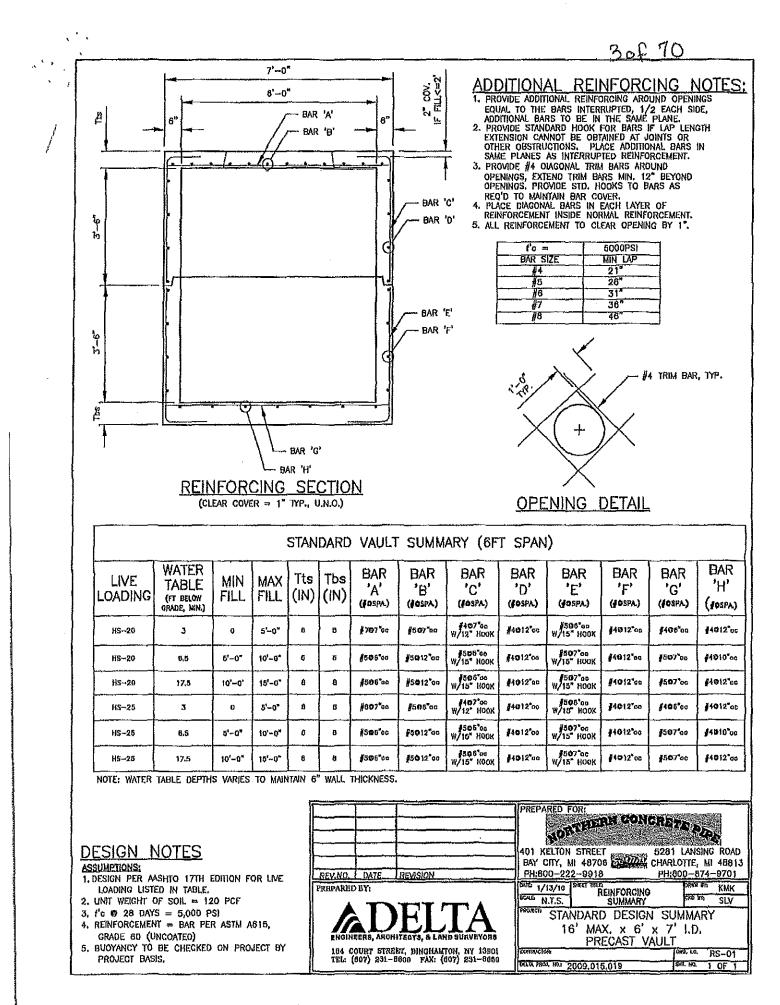
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JØ8	2009.015.019					
DESC)PTION	Table of Contents				ts	
Sheet no.	2	ØF	70	SCALE		
CALCULATED BY		KMK		DATE	1/12/2010	
CHECKED BY		SEU		DATE	61 (01)	

TABLE OF CONTENTS:

6' Span Designs:

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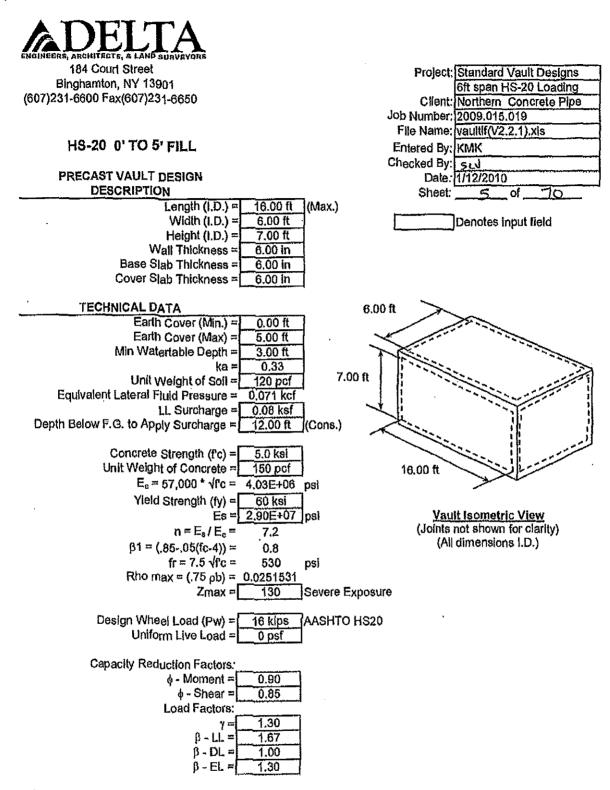




40B	2009.015.019				
DESCIPTION	Design Assumptions				
aheet no.	4	of 70) scale		
CALCULATED BY		KMK	DATE	1/12/2010	
CHECKED DY		sid	DATE	1 20/10	

Design Assumptions:

- * Units to be designed as monolithic top and bottom sections of equal inside height.
- " Walls to be designed as cantilever walls with no bending realized in the horizontal direction (Conservative)
- * Watertable depths vary to maintain a 6" wall thickness for all sizes of vaults.
- Live Load surcharge applied to 12' Max. below grade. (Conservative)



References:

1, "Specifications for Highway Bridges, 17th Ed." - AASHTO

2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

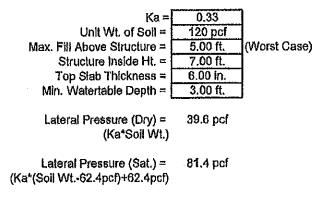
3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

4. "Standard Practice for Minimum Structural Design Loading for Monolithic or

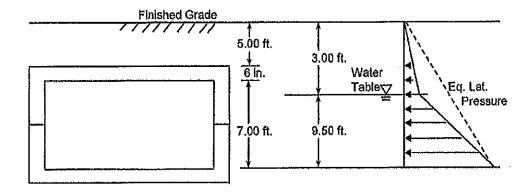
Sectional Precast Concrete Water and Wastewater Structures" - ASTM C890



Project:	Standard Vault Designs 6ft span HS-20 Loading				
Job #: Sheet:	2009.015.019 (p of 170				
By:	KMK	Date	1/12/2010		
Chk By:	SLU	Date	1/20/10		



Equivalent Lateral Pressure = 71.4 pcf





Project:	Standar	rd Vault De	signs
•	6ft spar	HS-20 La	ading
Job #:	2009.01	5.019	
Sheet:	7	of	70
By:	KMK	Date	1/12/2010
Chk By:	_ <u>SL</u>)	Date	1/20/10

Determine Uniform Load From Wheel Live Load for Various Fill Depths

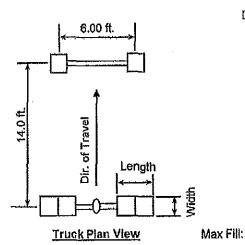
Distance Between CL of Wheel and CL of Truck: 3 Ift

Length

Wheel Load: 16 klps

Width

Distribution Length = 1.75 x Depth of Fill + Length of Dual Wheel Dimensions Distribution Width = 1.75 x Depth of Fill + Width of Dual Wheel Dimensions



al Wheel D	imensions:	1,67 ft.	0.83 ft.	AASHTO	3.30
Depth of	Distrib.	Distrib.	Lengths	DLA	Uniform
Fill (ft)	Length	Width	Overlap?	ft^2	Load psf
3.0	6.92	6,08	YES	42.1	380.3
3.5	7.80	6.96	YES	95,9	333,5
4.0	8,67	7.83	YES	114.9	278.6
4.5	9.55	8.71	YES	135.3	236.5
5.0	10.42	9.58	YES	157.3	203.4
5.5	11.30	10.46	YES	180.8	177,0
6.0	12.17	11.33	YES	205.9	155,4
6.5	13.05	12.21	YES	232.4	137.7
7.0	13.92	13,08	YES	260.6	122.8
7.5	14.80	13.96	YES	290.2	110.3
3.0	6.92	6.08	YES	78.6	407.4
5.0	10.42	9.58	YES	157,3	203,4

Design Min Fill =	3.00 ft	42.1	380,3
Design Max Fill =	5.00 ft	157.3	203.4

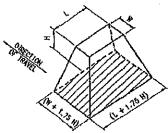
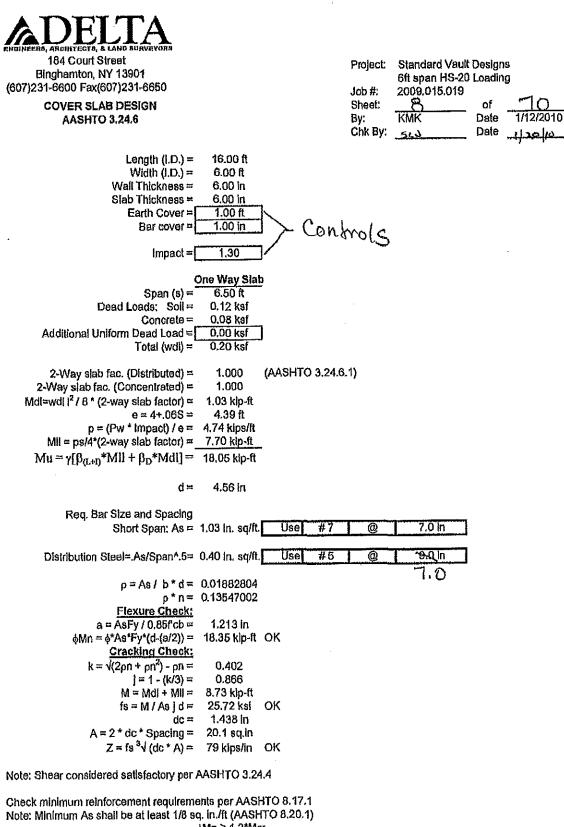


FIG. 4 Distributed Lond Area (REF "ASTM C 890-91") Note: If design fill < 3', design using concentrated load case

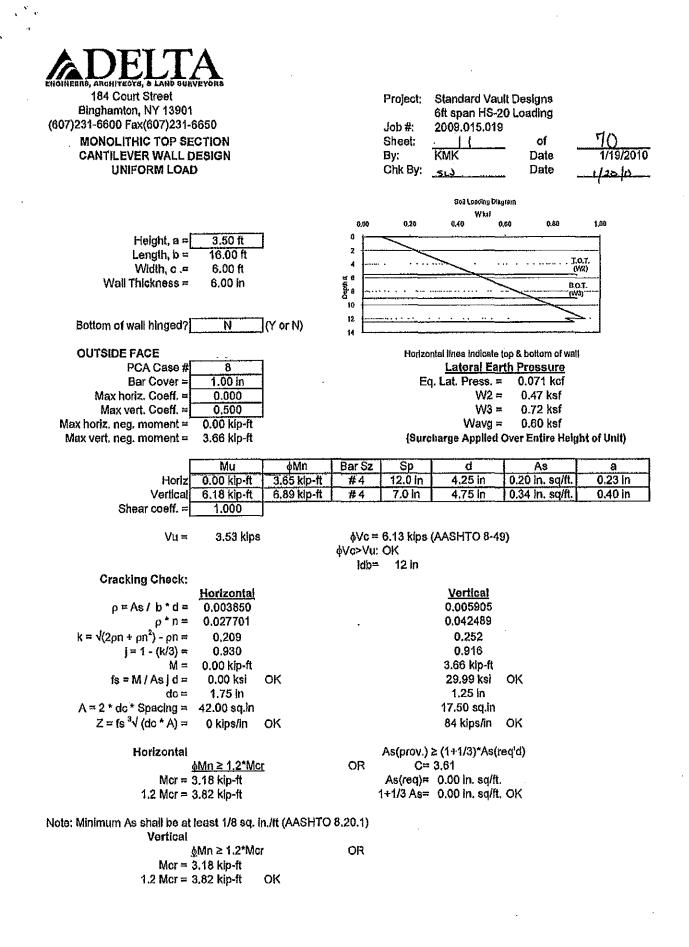


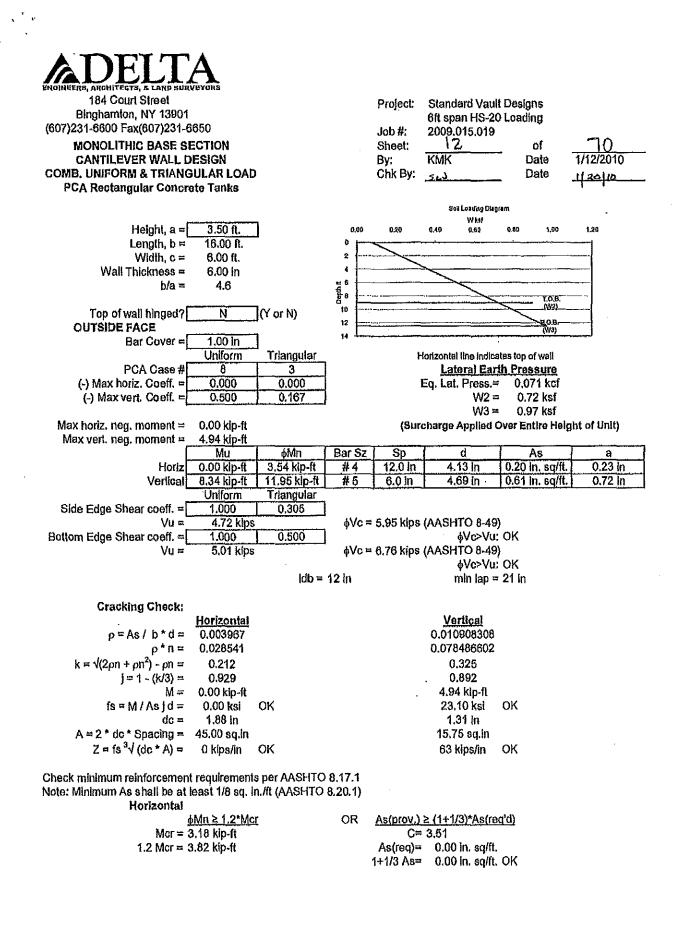
<u>6Mn ≥ 1.2*Mor</u> Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK

EXAMPLE 1 A Street Representation N 19301 Representation N 19301 Represe						
Binghemion, NY 13001 (607)231-600 Ex(607)231-660 United Value LOAD COVER SLAB DESIGN UNIFORM LVE LOAD MMN. FILL ASTM CB00 Length (LD) = 16.00 ft. Width (LD) = 600 ft. Width (LD) = 600 ft. Slab Thickness = 6.00 in Slab Thickness = 6.00 in Concrete = 0.008 ksf Additional Uniform Deal Load = 0.008 ksf Milewill f' / 8 * (2.way slab factor) = 2.20 (lp.ft DL = 42.07 sf Will = 0.38 ksf Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.way slab factor) = 2.01 kp.ft Milewill f' / 8 * (2.01 kp.ft) = 1.20 kp.ft Milewill f' / 8 * (2.01 kp.ft) = 1.20 kp.ft Milewill f' / 8 * (2.01 kp.ft) = 1.20 kp.ft Milewill f' / 8 * (2.01 kp.ft) = 1.20 kp.ft Milewill f' / 8 * (2.01 kp.ft) = 0.402 Milewill f' / 8 * (2.01 kp.ft) =				P571.	01	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$				Project:		
COVER SLAB DESIGN UNFORM LIVE LOAD MIN, FILL ASTM CBD Length (LD,) = 16.00 ft. Width (LD,) = 6.00 ft. Width (LD,) = 6.00 ft. Give By: SLA Width (LD,) = 6.00 ft. Give By: SLA Date $\frac{1}{1/22010}$ Date $\frac{1}{1/22010}$ Date $\frac{1}{1/22010}$ Date $\frac{1}{1/22010}$ Bar cover = $\frac{1}{1.00 \text{ in}}$ Bar cover = $\frac{1}{1.00 \text{ in}}$ Dead Loads: Soli = 0.38 ksf Concrete = 0.00 ksf Dead Loads: Soli = 0.38 ksf Concrete = 0.00 ksf Dead Loads: Soli = 0.38 ksf Concrete = 0.00 ksf Concrete = 0.00 ksf Mdl=wdl f'/ 8 + (2-way slab factor) = 2.00 kp-ft Wil = 0.38 ksf Mdl=wdl f'/ 8 + (2-way slab factor) = 2.01 kp-ft Mdl = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft Use $\frac{\#7}{1.00}$ Distribution Steel=.As/Span*5 = 0.40 in. sq/ft $\frac{1}{1.00}$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 0.018 ksp - 1.03$ $p = As / b^+ d = 3.03 ksp - 1.03$ $p = As / b^+ d = 3.03 ksp - 1.03$ $p = As / b^+ d = 3.04 ksp - 1.03$ $p = As / b^+ d = 3.04 ksp - 1.03$ $p = As / b^+ d = 3.04 ksp - 1.20 ksp - 1.03$ $p = As / b^+ d = 3.04 ksp - 1.20 ksp - 1.03$ $p = As / b^+ d = 3.04 ksp - 1.20 ksp - 1.03$ $p = As / b^+ d = 0.134 ksp - 1.20 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.22 ksp - 1.03$ $p = As / b^+ d = 1.21 ksp - 1.03$ $p = As / b^+ d$	(607)231-6600 Fax(607)231-6650			.iob #:		Loading
UNIFORM LIVE LOAD WIN FILL ASTM CBB0 Largh (LD) = 16.00 ft. Weith (LD) = 6.00 ft. Bar over = 1.00 in Bar over = 1.00 in Bar over = 1.00 in Concrete = 0.08 ksf Concrete = 0.08 ksf Concrete = 0.08 ksf Concrete = 0.08 ksf Concrete = 0.00 ksf Additional Uniform Deal Load = 0.000 ksf Total (wd) = 0.44 ksf 2-Way slab fact. (Distributed) = 1.000 (AASHTO 3.24.6.1) MdI=wdl ² / 8 + (2-way slab factor) = 2.30 kip-ft DLA = 420.7 sf WII = 0.38 ksf Concrete = 0.02 kp-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft MII=wll ² / 8 + (2-way slab factor) = 2.30 kip-ft d = 4.55 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/tt. Use! # 5 MII=wll ² / 8 + ² / (2-Way) = 13.35 kip-ft Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti k = 4/20n + m ³ - n = 0.400 in. sq/tt. Concert Concekti K = 4/20n + 1.20 in. MII = 4.31 klp-ft (AASHTO 6.40) & yto 6.58 kip.ft CK Check minimum resinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be all klp-ft. Am = 1.21Mor MII = 0.11 klp-ft.	COVER SLAB DESIGN				q	of 10
ASTM C880 Length (LD.) = 16.00 ft. Wall Thickness = 6.00 in Sab Thickness = 6.00 in Bar over = 1.00 in Bar over = 1.00 in Bar over = 1.00 in Cone Way Slab Span = 6.50 ft. Deal Load: Solie = 0.08 ksf Concrete = 0.08 ksf Additional Uniform Dead Load = 0.000 ksf Total (wd) = 0.34 ksf Concrete = 0.08 ksf Additional Uniform Dead Load = 0.000 ksf Total (wd) = 0.44 ksf 2.4Vay slab fact (Distributed) = 1.000 (AASHTO 3.24.6.1) MdI=wdl ⁶ /8 * (2-way slab factor) = 2.30 kip-ft Mu = γ [B ₁ ,t ₊₀ *Mill + B ₀ *Midl] = 7.35 kip-ft Mu = γ [B ₁ ,t ₊₀ *Mill + B ₀ *Midl] = 7.35 kip-ft Distribution Steel=As/Span*5= 0.40 in, sq/ft. Usel #7 @ 7.0 in Distribution Steel=As/Span*5= 0.40 in, sq/ft. Usel #6 @ ^90.01 1.0 p = As / b * d = 0.0188204 p * n = 0.3547002 Flaxure Check: a = AsFy / 0.85 kip-ft OK Cracking Check: $k = \sqrt{20n + m^2} - 0.40 is, sip-ft OK$ Cracking Checks: $k = \sqrt{20n + m^2} - 0.39 kip-ft$ f = Mi + As] = 4.25 kip-ft OK Cracking Checks: $k = \sqrt{20n + m^2} - 0.39 kips/ft$ f = Mi + As] = 4.25 kip-ft OK Cracking Checks: $k = \sqrt{20n + m^2} - 0.39 kips/ft$ f = Mi + As] = 4.25 kip slow ft f = Mi + As] = 4.25 kip slow ft $K = \sqrt{20n + m^2} - 0.39 kips/ft$ f = Mi + Ma] = 4.31 kip-ft $(AASHTO 8.49) \phi Ve = 6.58 kips/ft OK$ Check minimum reinforcement requirements per AASHTO 8.20.1) $\frac{Mm = 1.2^2Mit}{Mi + M_0 - ft}$				By:	KMK	Date 1/12/2010
Length (10.) = 16.00 ft. Widdl (10.) = 6.00 ft. Wall Thickness = 6.00 in Sibb Thickness = 6.00 in Betr cover = 1.00 ft. Ber cover = 1.00 ft. Ber cover = 1.00 ft. Ber cover = 1.00 ft. Ber cover = 0.08 ksf Concrete = 0.08 ksf Concrete = 0.08 ksf Concrete = 0.08 ksf Additional Uniform Deel Load = 0.000 ksf Total (wd) = 0.44 ksf 2.4Way stab fact. (Distributed) = 1.000 (AASHTO 3.24.8.1) Mdl=wdl ⁶ /8 * (2-way stab factor) = 2.30 kip.ft OLA = 42.07 sf Wil = 0.38 ksf Mil=wdl ⁶ /8 * (2-way stab factor) = 7.35 kip.ft d = 4.55 in Req. Bar Size and Spacing Stroit Spar: As = 1.03 in. aq/ft. Use #71 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in. aq/ft. Use #71 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in. aq/ft. Use #71 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in. aq/ft. Wil = 0.13647002 Flexure Check: a = AsFy /0.88fcb = 1.213 in dyMn = 4%AsFy*(4cl29) = 10.35 kip.ft K = 1/(20 ft m)^2 - on 0.402 j = 1 - (K3) = 0.8866 M = Mai + Mil + 4.31 kip.ft K = 1/(20 ft m)^2 - on 0.402 j = 1 - (K3) = 0.866 M = Mai + Mil + 4.31 kip.ft K = 1/(20 ft m)^2 - on 0.402 j = 1 - (K3) = 0.866 M = Mai + Mil + 4.35 kip.ft K = 1/(20 ft m)^2 - on 0.402 j = 1 - (K3) = 0.402 (a = 1.438 in X = 5 Å(d c * A) = 3.99 kips/ft ((AASHTO 6.48) dy Kv = 6.68 kips/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum as hall be at least 1/8 bg in.ft (AASHTO 8.20.1) <u>AMD = 1.21Mot</u> Mar = 3.18 kip.ft				Chk By:	510	Date 1/20/10_
Wide $(Lb) = 6.00 \text{ ft}$ Weal Thickness = 6.00 in Earth Cover = 3.00 ft . Bar cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Concretes = 0.08 ksf Additional Unition Dead Load = 1.000 (AASHTO 3.24.8.1) Mdl=wdl $P/8 + (2-way slab factor) = 2.30 \text{ kip-ft}$ Mdl=wdl P/8 + (2-way slab factor) = 2.30 kip-ft Mdl=wdl P/8 + (2-way slab factor) = 2.30 kip-ft $Mu = 7(B_{0.1+0} + Mtl + B_0 + Mdl] = 7.35 \text{ kip-ft}$ d = 4.55 in Req. Bar Size and Spacing Short Span: As = 1.03 h, sq/ft. Use #77 @ 7.0 in Distribution Sleel=Aa/Span^5.5 0.40 in. sq/ft. Use #6.5 @ -9.20 in 1.0 $p = As / b^* d = 0.01862804$ $p^* n = 0.13847002$ Flexure Check: $k = \sqrt{kg/n} + n^2, p = 0.402$ $k = \sqrt{kg/n} + 2.42 \text{ kb} = 1.05 \text{ kb}$ $k = \sqrt{kg/n} + 2.65 \text{ kb} = 0.056$ M = Ma/k = Ma = A.35 kp - ft (AASHTO 6.49) $\sqrt{y} = 6.56 \text{ kb} p/ft$ OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 stig. htt, K = Mtristor 8.17.1 Note: Minimum As shall be at least 1/8 stig. htt, K = Mtristor 8.17.1		10.00 6				
Wall Thickness = 6.00 in Slab Thickness = 6.00 in Earth Cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Bar cover = 1.00 in Dead Loade: Sol = 0.38 ksf Concrete = 0.008 ksf Additional Uniform Dead Load = 0.000 ksf Total (wdl) = 0.44 ksf 2-Way slab fac: (Distributed) = 1.000 (AdSHTO 3.24.6.1) Mdlewdl ⁶ /8 * (2-way slab factor) = 2.01 kip-ft DLa = 42.07 sf UH = 0.38 ksf Mll=v/ll ⁶ /8 * (2-way slab factor) = 2.01 kip-ft Mul = γ [$\beta_{(1,-h)}$ *Mil + β_{h} *Mdl] = 7.35 kip-ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel= As/Span*.55 0.40 in. sq/ft. Use #7 @ 7.0 in Distribution Steel= As/Spacing Short Span: As = 1.03 in. sq/ft. Use #6 @ ~6Q in 7.0 $p = As / b^* d = 0.018e28004$ $p^*n = 0.135 kip-ft$ OK Cracking Check; $k = \sqrt{20} n + n^3$, pn = 0.402 j = 1 - (K2) = 0.686 M = Mdj + Mil = 4.31 kip-ft OK Cracking Check; $k = \sqrt{20} n + n^3$, pn = 0.402 j = 1 - (K2) = 0.686 M = Mdj + Mil = 4.31 kip-ft OK Cracking Check; $Vu@ d = \gamma [BLL*Wil + BDL*Wil] + [(span/2) - d] = 3.99 kips/ft (AASHTO 8.40) = 0.47.1 Note: Minimum As shall be at least 1/8 sq. in.ft (AASHTO 8.2.1) \frac{AMn}{2L22Mot}$						
Earth Cover * Bar cover * Bar cover * Bar cover * Cone Way Slab Span = 6.50 ft. Deed Loads: Sol = 0.38 ksf Concrete = 0.008 ksf Additional Uniform Deed Load = 0.008 ksf Total (wd) = 0.44 ksf Total (wd) = 0.44 ksf Total (wd) = 0.44 ksf NdI=wdl f ² /8 * (2-way slab factor) = 2.30 kjp-ft DLA = 42.07 sf WI = 0.38 ksf MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft MII=wilf f ² /8 * (2-way slab factor) = 2.01 kip-ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in, sq/ft f = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in, sq/ft f = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in, sq/ft f = -1.0 f						
Bar cover = 100 in Span = 650 ft Dead Loads: Soli = 0.38 ksf Concrete = 0.08 ksf Additional Unition Dead Load = 0.00 ksf Total (wd) = 0.44 ksf 2.Way slab fac. (Distributed) = 1.000 (AASHTO 3.24.8.1) Mdl=wdl f ² /8 * (2-way slab factor) = 2.30 kjp-ft WI = 0.38 ksf MII=wil f ² /8 * (2-way slab tactor) = 2.01 kjp-ft $Mu = \gamma(B_{11.44})^* \text{Mil} + B_{D}^* \text{Mdl}] = 7.35 \text{ kip-ft}$ d = 4.55 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft . Use #7 @ 7.0 in Distribution Steel=.As/Span*.5 = 0.40 in. sq/ft. Use #7 @ 7.0 in $p = \text{As } / b^* d = 0.01882804$ $p^* n = 0.13647002$ Fiextre Check; a = ASFY (0.857cb = 1.213 in) $\phi Mn = \phi^* As^+ Fy^* (0.4622) = 1.338 \text{ kip-ft}$ OK Craabing Check; $k = \sqrt{2}pn + pn^2 - pn = 0.402$ j = 1 - (w3) = 0.666 M = Mil + Mil = .431 kip-ft fs = M / As j = 2.13 sub / K $Vu@ d = \gamma(B_{11.1} + Wil + \betaD_{1.4} + Wil) *$ I(gan2) - dI = 3.98 kips/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in.7ft (AASHTO 8.20.1) $\frac{Mar = 3.27 \text{ Mar}}{Mar = 3.28 \text{ kips/ft}}$			7			
$Span = \underbrace{6.50 \text{ ft}}{6.50 \text{ ft}}$ Dead Loads: Soil = 0.38 kef Concrete = 0.08 kef Additional Uniform Dead Load = $\underbrace{0.00 \text{ kef}}{0.00 \text{ kef}}$ Total (wd) = 0.44 kef 2-Way slab fac. (Distributed) = 1.000 (AASHTO 3.24.6.1) Mdl=wdl ⁶ /8 * (2-way slab factor) = 2.30 klp-ft DLA = 42.07 sf Wil = 0.38 kef MlI=wll ⁶ /8 * (2-way slab factor) = 2.01 klp-ft Mu = $\eta[\beta_{11.9}^{*}]$ MII + β_{D}^{*} MdI] = 7.35 klp-ft d = 4.56 in Req. Bar Size and Spacing Shtot Span: As = 1.03 in. sq/ft. Use #77 @ 7.01n Distribution Steel=As/Span^5 = 0.40 in. aq/ft. Use #6 @			4			
Span = $\frac{6.50 \text{ ft}}{0.08 \text{ ksf}}$ Dead Loads: Soli = 0.38 ksf Concrete = 0.008 ksf Additional Unitorn Dead Load = $\frac{0.00 \text{ ksf}}{0.00 \text{ ksf}}$ Total (wd) = 0.44 ksf 2-Way stab fact. (Distributed) = 1.000 (AASHTO 3.24.6.1) Mdl=wdl ⁶ /8 * (2-way stab factor) = 2.30 ktp-ft DLA = 42.07 sf Wil = 0.38 ksf Mll=wll ⁶ /8 * (2-way stab factor) = 2.01 ktp-ft Mu = γ[β _{Q1-0} *MH + β _D *MdI] = 7.35 ktp-ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #77 @ 7.0 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #5 @ ~9.Q in 7.0 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #65 @ ~9.Q in 1.0 $p = As / b^* d = 0.01882804$ $p^* n = 0.13547002$ Flexure Check: a = AsFy / 0.867cb = 1.213 in $q/Mn = q^4/As^+Fy'(d_r/22)) = 10.35 ktp-ft OK$ CrackIng Check: $k = \sqrt{2pn + pn^2 - pn} = 0.402$ j = 1 - (x3) = 0.486 M = MdI + MI = 4.31 ktp-ft is = M/As j d = 12.68 kal OK d = 1.438 in $A = 2^* d o^* Spacing = 20.1 sq.in$ Z = fs 3 (do * A) = 39 kips/ft OK Shaar Check: Vn@ d = γ[βLL+WII + βDL*WdI] * [(span/2) - d] = 3.99 kips/ft OK Check minimum As shell be at least 1/8 sq. in.7t (ASHTO 8.20.1) <u>Man ≥ 1.2¹Mar Mar ≥ 1.18 ktp-ft</u>	Bar cover	1.00 m	1			
Dead Loads: Solt = 0.38 ksf Concrete = 0.00 ksf Total (wdl) = 0.44 ksf 2-Way slab fac. (Distributed) = 1.000 (AASHTO 3.24.6.1) Mdl=wdl f ² /8 * (2-way slab factor) = 2.30 klp-ft DLA = 42.07 sf Wll = 0.38 ksf Mll=wil f ² /8 * (2-way slab factor) = 2.01 klp-ft Mu = y[[p ₁ ,)*Mil + p_0 *Mdl] = 7.35 klp-ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 ln. sq/ft Use #7 @ 7.01n Distribution Steel=.As/Span^5 = 0.40 in. sq/ft Use #6 @ 49.2 ln 1.0 $p = As / b^* d = 0.01882804$ $p^* n = 0.13547002$ Floxue Check: a = AsFy / 0.85fcb = 1.213 in $\phi Mn = \phi^*As^+/y(4.612)$ 18.35 klp-ft OK <u>Cracking Check:</u> $k = V(2n + n^2) - n = 0.402$ j = 1 - (k/3) = 0.866 M = Mdl + Mll = 4.31 klp-ft $A = 2* ds^* Spand = 20.1 sq.ln Z = fs^* (d_0 + A) = 30 klps/ftA = 2* ds^* Spand = 20.1 sq.ln Z = fs^* (d_0 + A) = 30 klps/ft(AASHTO 8.49) = Va = 6.56 klps/ft OKCheck minimum reinforcement requirements per AASHTO 8.17.1Note: Minimum As shall be at least 1/8 sp. in Z: 100 ks/1 C: 200 ks/2 ks/2 ks/2 ks/2 ks/2 ks/2 ks/2 ks/2$			<u>b</u>			
Concrete = 0.08 ksf Additional Uniform Dead Load = 0.00 ksf Total (wdl) = 0.44 ksf 2-Way stab fac. (Distributed) = 1.000 (AASHTO 3.24.6.1) Mdl=wdl ² / 8 ' (2-way stab factor) = 2.30 kjp-ft DLA = 42.07 sf Wll = 0.38 ksf Mll=will f ² / 8 ' (2-way stab factor) = 2.01 kip-ft Mu = $\gamma[\beta_{12,13}, *MII + \beta_{23}, *MII] = 7.35 kip-ft$ d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.01m Distribution Steel=.As/Span ^A .5= 0.40 in. sq/ft. Use #6 @ *8Q in $p = As / b^* d = 0.01882804$ $p^* n = 0.13847002$ Flexure Check: a = AsFy / 0.85fob = 1.213 in $\phi Mn = \phi^*As^Fy^*(d:(a2)) = 18.35 kip-ft OK$ Cracking Check: $k = \sqrt{2(2n + nn^2) - nn = 0.402}$ j = 1 - (k/3) = 0.866 M = kdI + MII = 4.31 kip-ft f = MA s j d = 12.60 ksl OK d = 1.438 in $A = 22 * do^* Spacing = 20.1 sq.in$ $Z = fs^{3}\sqrt{(da^* A)} = 39 kips/ft$ (ASHTO 8.49) $\phi Va = 6.58 kips/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sp. in // (AASHTO 8.20.1) Min = 3.18 kip-ft						
Additional Uniform Dead Load = 0.00 kef Total (wdi) = 0.44 kef 2-Way stab fac: (Distributed) = 1.000 (AASHTO 3.24.6.1) Mdi=wdi ² / 8 * (2-way stab factor) = 2.30 kip.ft DLA = 42.07 sf Wil = 0.38 kef Mil=wil ² / 8 * (2-way stab factor) = 2.01 kip.ft Mu = γ [B ₍₁₊₁₎ *Mil + B ₀ *Mdi] = 7.35 kip.ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #6 @ *SQ in p = As / b * d = 0.01882804 p * n = 0.13547002 Flexure Check: a = AsF7 / 0.85frob = 1.213 in ϕ Mn = ϕ As ⁷ / y ² (d e/2) > 18.35 kip.ft OK Cracking Check: $k = \sqrt{2pn + pn^2}, pn = 0.402$ j = 1 - (k/3) = 0.866 M = Mdi + Mil = 4.31 kip.ft $k = \sqrt{2pn + pn^2}, pn = 0.402$ j = 1 - (k/3) = 0.866 M = Mdi + Mil = 4.31 kip.ft $A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} (d a^{\pm} A_{3}) = 39 kips/in OKShear Check;k = \sqrt{2pn + pn^2}, pn = 0.402j = 1 - (k/3) = 0.866M = Mdi + Mil = 4.31 kip.ftA = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in A = 2^{\pm} d a^{\pm} Spacing = 20.1 sq.in (AASHTO 8.49) \phi Va = 6.58 \text{ kps/ft} OKCheck minimum reinforcement requirements per AASHTO 8.17.1Note: Minimum As shall be at least 1/8 sq. in/H (AASHTO 8.20.1)MMin = 3.18 kip.ft$						
Total (wdl) = 0.44 ksf 2-Way slab fac. (Distributed) = 1.000 (AASHTO 3.24.8.1) Mdl=wdl f ² / 8 * (2-way slab factor) = 2.30 klp-ft DLA = 42.07 sf WII = 0.38 ksf MII=wil f ² / 8 * (2-way slab factor) = 2.01 klp-ft Mu = $\gamma[\beta_{(L,+)}*MII + \beta_{D}*MdI] = 7.35 klp-ft$ d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in, sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in, sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in, sq/ft. Use #6 @ *9.0 in p = As / b * d = 0.01882804 $p^* n = 0.13547002$ <u>Flexure Checks</u> a = AsFY / 0.8670b = 1.213 in $\phi Mn = \phi^*As^*Fy^*(d-(s/2)) = 18.35 klp-ft$ OK <u>Cracking Checks</u> $k = \sqrt{(p + na^2) - pn = 0.402}$ j = 1 - (k/3) = 0.686 M = Mol + MiI = 4.31 klp-ft fs = M / As j = 12.69 ksl OK d = 1.436 ln $A = 2 * dc * Spacing = 20.1 sq.in Z = fs \sqrt[3]{(dc * A)} = 38 klps/in OKStear Checks;Vu@ d = \gamma[\beta LL *WII + \beta DL *WdI] * [(span/2) - d] = 3.39 klps/it (AASHTO 8.49) \phi Vc = 6.58 klps/ft OKCheck minimum reinforcement requirements per AASHTO 8.17.1Note: Minimum As shall be at least 1/8 sq. in.71 (AASHTO 8.20.1)$Mm = 1, 2.18 klp-ftMar = 3.18 klp-ft$			7			
2-Way slab fac. (Distributed)= 1.000 (AASHTO 3.24.8.1) Mdl=wdl f ² /8 * (2-way slab factor) = 2.30 kip-ft DLA = 42.07 sf Wl = 0.38 ksf MlI=wll f ² /8 * (2-way slab factor) = 2.01 kip-ft Mu = $\gamma[\beta_{(1,+)}*Mll + \beta_{D}*Mdl] = 7.35 kip-ft$ d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #6 @ ~4Q in 1.40 $p = As / b^* d = 0.01882804$ $p^*n = 0.03847002$ Flexure Check: a = AsFy / 0.85fcb = 1.213 in $qMn = q^Aas^Try'(d.(q2)) = 18.35 kip-ft OK$ Cracking Check: $k = \sqrt{2pn + pn^2} - pn = 0.402$ j = 1 - (K3) = 0.866 M = Mdl + Ml = 4.31 kip-ft fs = M / As j d = 12.69 ksl OK d = 1.438 in $A = 2^* dc^* Spacing = 20.1 sq.in$ $Z = ts^{-1}\sqrt{(dc^*A)} = 39 kips/in OK$ Stear Check: Vu(@ $d = \gamma[\beta LL^*Wll + [DL^*Wdl] *$ [(span/2)] -] = 3.39 kips/ft OK Check minimum reinforcement requirements per AASHTO 8.20.1) $\frac{Mm = 1.21Mor}{Mm = 1.21Mor}$			1			
Mdl=wdl ² / 8 * (2-way slab factor) = 2.30 klp-ft DLA = 42.07 sf Wll = 0.38 ksf Mll=wll ¹² / 8 * (2-way slab factor) = 2.01 klp-ft Mu =y[[β _(1,+1) *Ml1 + β _p *Mdl] = 7.35 klp-ft d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft Use #7 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in. sq/ft Use #5 @ 76.0 in p = As / b * d = 0.01882804 p * n = 0.13647002 Floxure Check: a = AsFy / 0.367cb = 1.213 in $\phi^m n = \phi^{+} n = 0.13647002$ Floxure Check: $k = \sqrt{(2pn + pn^2) - pn = 0.40g}$ $k = \sqrt{(2pn + pn^2) - pn = 0.40g}$ $A = 2 * dc^{+} Spacing = 20.1 sq.in$ $Z = fs 3/ (dc^{+} A) = 39 klps/ft$ $(ASHTO 8.49) \phi^{Vc} = 6.58 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in.7((AASHTO 8.20.1) $\frac{Mm = 1.2^{2Mor}}{Mc = 3.18 klp.ft}$						
$\begin{array}{llllllllllllllllllllllllllllllllllll$	2-Way slab fac. (Distributed)=		(AASHTO 3.24.6	3.1)		
$WI = 0.38 \text{ ksf}$ $MII=WII \frac{1}{7} (B \cdot (2 \text{-way slab factor}) = 2.01 \text{ klp-ft}$ $Mu = \gamma [\beta_{(1,+1)} \text{*MII} + \beta_{D} \text{*MdI}] = 7.35 \text{ klp-ft}$ $d = 4.56 \text{ in}$ Req. Bar Size and Spacing Short Span: As = 1.03 h. sq/ft Use #7 @ 7.0 in Distribution Steel=.As/Span*.5= 0.40 in. sq/ft Use #6 @ *8.0 in $p = \text{As} / b^* d = 0.01882804$ $p^* n = 0.13647002$ $Flexure Check:$ $a = AsF7 / 0.85 \text{ klp-ft}$ $k = \sqrt{(2n + n^2) - n} = 0.402$ $M = MdI + MII = 4.31 \text{ klp-ft}$ $k = \sqrt{(2n + n^2) - n} = 0.402$ $M = MdI + MII = 4.31 \text{ klp-ft}$ $K = \sqrt{(2n + n^2) - n} = 0.402$ $M = MdI + MII = 4.31 \text{ klp-ft}$ $f = M / \text{As} \text{ j} d = 12.66 \text{ ks}$ $M = 2^* d \text{ o}^* \text{Spacing} = 20.1 \text{ sq. in}$ $Z = fs \frac{3}{4} (d \text{ o}^* \text{ A}) = 39 \text{ klps/ft}$ $A = 2^* d \text{ o}^* \text{Spacing} = 20.1 \text{ sq. in}$ $Z = fs \frac{3}{4} (d \text{ o}^* \text{ A}) = 39 \text{ klps/ft}$ $(ASHTO 8.49) \text{ eVe} = 6.58 \text{ klps.ft} \text{ OK}$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in/ft (ASHTO 8.20.1) $MII = 1.2^{MOI}$	· · · ·					
$\begin{aligned} M H=wl(^2/8 + (2-way slab factor) &= 2.01 k[p-ft] \\ Mu=\gamma[\beta_{(1,+1)}*MH] + \beta_p*MMH] &= 7.35 k[p-ft] \\ d &= 4.56 in \\ \\ Req. Bar Size and Spacing \\ \mathsf{Short Span: As &= 1.03 ln. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline M &= 4.56 in \\ \\ Req. Bar Size and Spacing \\ \mathsf{Short Span: As &= 1.03 ln. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline M &= 5 & @ 7.01 \\ \hline Distribution Steel = As/Span^{A}.5 &= 0.40 in. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline Distribution Steel = As/Span^{A}.5 &= 0.40 in. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline Distribution Steel = As/Span^{A}.5 &= 0.40 in. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline Distribution Steel = As/Span^{A}.5 &= 0.40 in. sq/ft \underline{Use} + 7 & @ 7.01 \\ \hline I &= 0.13647002 \\ \hline Floxure Check: \\ a = As^{Fy}/0.85 fcb = 1.213 in \\ \mathfrak{g} Mn = \mathfrak{g}^{A} s^{A} Fy'(d^{-}(a/2)) = 18.35 kip.ft OK \\ \hline \mathbf{Craakling Check:} \\ k = \sqrt{(2\rho_n + \rhon^2)} - \rho = 0.402 \\ i = 1.438 in \\ A = 2^{A} de^{A} Spacing = 20.1 sq.in \\ Z = fs^{A} \langle (de^{A} A) = 39 kips/in OK \\ \hline de = 1.438 in \\ A = 2^{A} de^{A} Spacing = 20.1 sq.in \\ Z = fs^{A} \langle (de^{A} A) = 39 kips/in OK \\ \hline Shear Check: \\ Vi @ d = \gamma[BLL^* WI] + \beta DL^* Wd] * \\ [(ASHTO B.49) \mathfrak{gVc} = 6.58 kips/in OK \\ Check minimum reinforcement requirements per AASHTO 8.17.1 \\ \mathsf{Note: Minimum As shell be at least 1/8 \mathsf{sq. in/if AISHTO 8.20.1 \\ \underbrace{MM = 1.2^* Mor \\ Mr = 3.18 kip.ft \\ Mr = 1.3^* Mor \\ Mr = 1.3^* Mor \end{aligned} \right$						
$Mu = \gamma [\beta_{(1,+)} * MII + \beta_{D} * MdI] = 7.35 \text{ kip-ft}$ $d = 4.55 \text{ in}$ Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span^5 = 0.40 in. sq/ft. Use #6 @ 9.0 [n] $p = As / b^* d = 0.01882804$ $p^* n = 0.13647002$ <u>Flexure Check:</u> a = AsFy / 0.85f cb = 1.213 in $\phi Mn = \phi^* As^* fy^* (d \cdot (a/2)) = 18.35 \text{ kip-ft}$ OK <u>Crackling Check:</u> $k = \sqrt{(2pn + pn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.866 M = MdI + MII = 4.31 kip-ft fs = M / As j d = 12.60 ks OK dc = 1.438 in $A = 2^* dc^* \text{Spacing} = 20.1 \text{ sq. in}$ $Z = fs^3 \sqrt{(dc^* A)} = 39 \text{ kips/ft}$ $(ASHTO 8.49) \phi Vc = 6.58 \text{ kips/ft}$ OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\delta Mn \ge 1.2^* Mor}{Mcr = 3.18 \text{ kip-ft}}$						
d = 4.56 in Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #5 @ ~400 in Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #5 @ ~400 in $p = A_5 / b^* d = 0.01882804$ $p^* n = 0.13647002$ Fioxure Check: a = AsFy / 0.85f cb = 1.213 in of m = o^*As^*Fy^*(d(a/2)) = 18.35 kip.ft OK Calculation for the formation of the for						
Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7 @ 7.0 in Distribution Steel=.As/Span^5= 0.40 in. sq/ft. Use #5 @ ^9.Q in $p = As / b^* d = 0.01882804$ $p^* n = 0.13647002$ Flexure Check: a = AsFy / 0.35fcb = 1.213 in $\phi Mn = \phi^2 As^T Fy^4 (da 2)$ = 18.35 kip-ft OK Cracking Check: $k = \sqrt{(2n + nn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.402 j = 1 - (k/3) = 0.402 $k = \sqrt{(2n + nn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.402 f = M / As j d = 12.69 ksi OK dc = 1.438 in $A = 2^* dc^* Spacing = 20.1$ sq.in $Z = fs^3 \sqrt{(dc^* A)} = 39$ kips/in OK Shear Check: Vu@ $d = \gamma [\beta LL^* Wil + \beta DL^* Wd]$ [(span/2) - d] = 3.99 kips/ft (AASHTO 8-49) $\phi Vc = 6.58$ kips/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in /ft (AASHTO 8.20.1) $\phi Mn = 3.18$ kip-ft						
Short Span: As = 1.03 ln. sq/ft. Use #7 @ 7.0 ln Distribution Steel=.As/Span^.5= 0.40 in. sq/ft. Use #6 @ -9.0 in p = As / b * d = 0.01892804 p * n = 0.13547002 Flexure Check; a = AsFy / 0.85f cb = 1.213 in $\phi Mn = \phi^*As^*Fy^*(d-(a/2)) = 18.35 kip-ft OK$ <u>Gracking Check</u> ; $k = \sqrt{(2pn + pn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.866 M = Mdl + Mll = 4.31 kip-ft fs = M / As j d = 12.66 ksl OK dc = 1.438 in $A = 2^* dc^* Spacing = 20.1 sq.in$ $Z = fs^3 \sqrt{(dc^*A)} = 3.98 kips/in$ OK <u>Shear Check</u> ; $Vu@ d = \gamma [\beta LL*Will + \beta DL*Wdl] * [(span/2) - d] = 3.99 kips/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in, /ft (AASHTO 8.20.1) \frac{\delta Mn \ge 1.2^*Mcr}{Mcr}$	d =	4.56 in				
Distribution Steel=.As/Span^5.5 0.40 in. sq/ft. Use #5 @ $-9.Q \ln$ p = As / b * d = 0.01882804 p * n = 0.13547002 Flexure Check: a = AsFy / 0.85f cb = 1.213 in $\phi Mn = \phi^*Aa^*Fy^*(d-(a/2)) = 18.35 kip-ft OK$ Crackling Check: $k = \sqrt{(2pn + pn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.866 M = Mdl + Mll = 4.31 klp-ft fs = M / As J d = 12.69 ksI OK $dc = 1.438 \ln$ A = 2 * dc * SpacIng = 20.1 sq.ln $Z = fs \sqrt[3]{d(a^* A)} = 398 klps/fn OK$ Shear Check: $Vu@ d = \gamma[\beta LL*WII + \beta DL*WdI] *$ [(span/2) - d] = 3.99 klps/ft (AASHTO 8-49) $\phi Vc = 6.58 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\delta Mn \ge 1.2^*Mor}{Mcr = 3.18 klp-ft}$		1.601 (1)				
$p = As / b^* d = 0.01882804$ $p^* n = 0.13547002$ Flowure Check: a = AsFy / 0.85fcb = 1.213 in \$\overline{Mn} = \overline{\sigma}^* As^* Fy^* (d-(a/2)) = 18.35 kip-ft OK Cracking Check: k = \overline{\sigma} (2pn + pn^2) - pn = 0.402 j = 1 - (k/3) = 0.866 M = Mdl + Mll = 4.31 kip-ft fs = M / As j d = 12.69 ksl OK dc = 1.438 in A = 2 * dc * Spacing = 20.1 sq.in Z = fs ³ \overline{\sigma} (do * A) = 39 kips/in OK Shear Check: Vu@ d = \gamma[BLL*Will + BDL*Wdi] * [(span/2) - d] = 3.99 kips/ift (AASHTO 8-49) \overline{\sigma} Vc = 6.58 kips/ift OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) \overline{\sigma} Min \geq 1.2*Mor Mor = 3.18 kip-ft	Short Span: As =	1.03 In. sq/ft	. Use #7	0	7.0 m	
$p = As / b^* d = 0.01882804$ $p^* n = 0.13547002$ Flowure Check: a = AsFy / 0.85fcb = 1.213 in $\phi Mn = \phi^*As^*Fy^*(d-(a/2)) = 18.35 \text{ kip-ft OK}$ Cracking Check: k = $\sqrt{(2pn + pn^2) - pn} = 0.402$ j = 1 - (k/3) = 0.866 M = Mdl + Mll = 4.31 klp-ft fs = M / As j d = 12.69 ksl OK dc = 1.438 in A = 2* dc* Spacing = 20.1 sq.in Z = fs $\sqrt[3]{(dc*A)} = 3.99 \text{ klps/in OK}$ Shear Check: Vu@ d = $\gamma[\beta LL*Wll + \beta DL*Wdl] *$ [(span/2) - d] = 3.99 klps/ft (AASHTO 8-49) $\phi Vc = 6.58 \text{ klps/ft OK}$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^2 Mor}{Mcr = 3.18 \text{ klp-ft}}$	Distribution Steel=.As/Span^.5=	0.40 in, sq/ft	Use #5	@	~9.Q in	
$p = As / b^* d = 0.01882804$ $p^* n = 0.13547002$ Flexure Check; a = AsFy / 0.85f cb = 1.213 in $\phi Mn = \phi^* As^* Fy^* (d \cdot (a/2)) = 18.35 \text{ kip-ft} OK$ Cracking Check; $k = \sqrt{(2\rho n + \rho n^2) - \rho n} = 0.402$ $j = 1 - (k/3) = 0.866$ $M = Mdl + Mll = 4.31 \text{ kip-ft}$ $fs = M / As j d = 12.69 \text{ ksi} OK$ $dc = 1.438 \text{ in}$ $A = 2 * dc^* \text{ Spacing = 20.1 sq.in}$ $Z = fs \sqrt[3]{} (dc^* A) = 39 \text{ kips/in} OK$ Shear Check; $Vu @ d = \gamma [\beta LL^* Wll + \beta DL^* Wdl] *$ $[(span/2) - d] = 3.99 \text{ kips/it} OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\delta Mn \ge 1.2^* Mor}{Mcr = 3.18 \text{ kip-ft}}$	•	•				
$\rho^* n = 0.13547002$ $\frac{Flexure Check:}{a = AsFy / 0.85fcb = 1.213 in}$ $\phi Mn = \phi^* As^* Fy^* (d_{-}(a/2)) = 18.35 kip-ft OK$ $\frac{Crackling Check:}{(a = \sqrt{(2\rhon + \rhon^2)} - \rhon = 0.402)}$ $j = 1 - (k/3) = 0.866$ $M = Mdl + Mll = 4.31 kip-ft$ $fs = M / As j d = 12.66 ksl OK$ $dc = 1.438 in$ $A = 2^* dc^* Spacing = 20.1 sq.in$ $Z = fs^{-3}\sqrt{(dc^* A)} = 39 kips/in OK$ $\frac{Shear Check:}{(AASHTO 8-49)} \phi Vc = 6.58 kips/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./f (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^*Mcr}{Mcr = 3.18 kip-ft}$		0.04000004				
$\begin{array}{l} \begin{array}{l} \displaystyle \underset{\alpha = AsFy / 0.85fcb = \\ a = AsFy / 0.85fcb = \\ \hline \\ & 1.213 \text{ in} \\ \hline \\ & \varphi Mn = \varphi^*As^*Fy^*(d\cdot(a/2)) = \\ \hline \\ & 18.35 \text{ kip-ft} OK \\ \hline \\ & Cracking Check: \\ \hline \\ & k = \sqrt{(2\rho_1 + \rho_1^2) - \rho_1 = } \\ \hline \\ & 0.402 \\ \hline \\ & j = 1 - (k/3) = \\ \hline \\ & 0.866 \\ \hline \\ & M = Mdi + Mil = \\ \hline \\ & 4.31 \text{ kip-ft} \\ \hline \\ & fs = M / As j d = \\ \hline \\ & 12.69 \text{ ksl} OK \\ \hline \\ & dc = \\ & 1.438 \text{ in} \\ \hline \\ & A = 2^* dc^* \text{ Spacing = } \\ 20.1 \text{ sq. in} \\ \hline \\ & Z = fs^3 \sqrt{(dc^*A)} = \\ \hline \\ & 39 \text{ kips/in} OK \\ \hline \\ & Shear Check: \\ \hline \\ & Vu@ d = \gamma[\beta LL^*Wil + \beta DL^*Wdi] * \\ \hline \\ & [(span/2) - d] = \\ \hline \\ & (AASHTO 8-49) \varphi Vc = \\ \hline \\ & 6.58 \text{ kips/ft} OK \\ \hline \\ & Check minimum reinforcement requirements per AASHTO 8.17.1 \\ \hline \\ & Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) \\ \hline \\ & \frac{\delta Mn \ge 1.2^*Mor}{Mcr = 3.18 \text{ kip-ft}} \end{array}$						
$a = \overline{AsFy} / 0.85fcb = 1.213 in$ $\phi Mn = \phi^*As^*Fy^*(d-(a/2)) = 18.35 kip-ft OK$ <u>Gracking Check:</u> $k = \sqrt{(2pn + pn^2) - pn} = 0.402$ $j = 1 - (k/3) = 0.866$ $M = Mdl + Mll = 4.31 klp-ft$ $fs = M / As jd = 12.69 ksl OK$ $dc = 1.438 in$ $A = 2^* dc^* Spacing = 20.1 sq.in$ $Z = fs \sqrt[3]{} (dc^*A) = 39 klps/in OK$ <u>Shear Check:</u> $Vu@ d = \gamma[\beta LL^*Wll + \beta DL^*Wdl] *$ $[(span/2) - d] = 3.99 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\delta Mn \ge 1.2^*Mor}{Mcr = 3.18 klp-ft}$	•	0.1007)002				
$\begin{array}{rcl} & \underline{\text{Grackling Check:}} \\ k = \sqrt{(2\rhon + \rhon^2)} - \rhon = & 0.402 \\ & j = 1 - (k/3) = & 0.866 \\ & M = Mdl + Mll = & 4.31 \text{klp-ft} \\ & fs = M / \text{As j } d = & 12.69 \text{ksl} & \text{OK} \\ & dc = & 1.438 \text{in} \\ & A = 2^{*} dc^{*} \text{Spacling} = & 20.1 \text{sq.ln} \\ & Z = fs^{*} \sqrt{(dc^{*} A)} = & 39 \text{klps/in} & \text{OK} \\ & \underline{\text{Shear Check:}} \\ & \text{Vu}(@, d = \gamma[\beta LL^*Wll + \beta DL^*Wdl] * \\ & [(span/2) - d] = & 3.99 \text{klps/ft} \\ & (AASHTO 8-49) & \phi Vc = & 6.58 \text{klps/ft} & \text{OK} \\ & \text{Check minimum reinforcement requirements per AASHTO 8.17.1} \\ & \text{Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1)} \\ & \underline{\phi Mn \ge 1.2^*Mor} \\ & Mcr = & 3.18 \text{klp-ft} \end{array}$	a = AsFy / 0.85fcb =					
$k = \sqrt{(2\rho_{1} + \rho_{1}^{2}) - \rho_{1}} = 0.402$ $j = 1 - (k/3) = 0.866$ $M = MdI + MII = 4.31 klp-ft$ $fs = M / As j d = 12.69 ksI OK$ $dc = 1.438 in$ $A = 2 * dc^{*} SpacIng = 20.1 sq.In$ $Z = fs^{*}\sqrt{(dc^{*}A)} = 39 klps/in OK$ $\frac{Shear Check;}{(AASHTO 8-49)} = 3.99 klps/ft$ $(AASHTO 8-49) \phi Vc = 6.58 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^{*} Mor}{Mcr = 3.18 klp-ft}$		18.35 kip-ft	ок			
$j = 1 - (k/3) = 0.866$ $M = MdI + MII = 4.31 klp-ft$ $fs = M / As j d = 12.69 ksI OK$ $dc = 1.438 ln$ $A = 2 * dc^* SpacIng = 20.1 sq.ln$ $Z = fs^3 \sqrt{(dc^* A)} = 39 klps/in OK$ $\frac{Shear Check;}{(AASHTO 8-49)} = 3.99 klps/ft$ $(AASHTO 8-49) \phi Vc = 6.58 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^* Mcr}{Mcr}$		0.477				
$M = Mdl + Mll = 4.31 \text{ kip-ft}$ $fs = M / As \text{ j } d = 12.69 \text{ ksl} OK$ $dc = 1.438 \text{ in}$ $A = 2* dc^* \text{ Spacing} = 20.1 \text{ sq. in}$ $Z = fs^3 \sqrt{(dc^* A)} = 39 \text{ kips/in} OK$ $\frac{\text{Shear Check;}}{\sqrt{u@} d = \gamma[\beta LL*Wll + \beta DL*Wdl]} *$ $[(span/2) - d] = 3.99 \text{ kips/ft}$ $(AASHTO 8-49) \phiVc = 6.58 \text{ kips/ft} OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2*Mcr}{Mcr}$ Mar = 3.18 kip-ft						
$fs = M / As j d = 12.69 ksl OK$ $dc = 1.438 in$ $A = 2 * dc * Spacing = 20.1 sq.in$ $Z = fs \sqrt[3]{(dc * A)} = 39 klps/in OK$ $\frac{Shear Check;}{}$ $Vu@ d = \gamma[\beta LL*Wll + \beta DL*Wdl] *$ $[(span/2) - d] = 3.99 klps/tt$ $(AASHTO 8-49) \phi Vc = 6.58 klps/ft OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2*Mcr}{Mcr}$						
$dc = 1.438 \text{ in}$ $A = 2 * dc^* \text{ Spacing} = 20.1 \text{ sq. in}$ $Z = \text{ fs} \sqrt[3]{(dc^* A)} = 39 \text{ klps/in} OK$ $\frac{\text{Shear Check:}}{\text{Shear Check:}}$ $Vu@ d = \gamma[\beta LL*Wll + \beta DL*Wdl] *$ $[(\text{span}/2) - d] = 3.99 \text{ klps/ft}$ $(AASHTO 8-49) \phi Vc = 6.58 \text{ klps/ft} OK$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^* \text{Mor}}{\text{Mcr} = 3.18 \text{ klp-ft}}$			ок			
$Z = fs \sqrt[3]{(dc * A)} = 39 \text{ klps/in OK}$ $\frac{Shear Check;}{Vu@ d = \gamma[\beta LL*Wll + \beta DL*Wdl] *}$ $[(span/2) - d] = 3.99 \text{ klps/ft}$ $(AASHTO 8-49) \phi Vc = 6.58 \text{ klps/ft OK}$ Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^* Mcr}{Mcr}$	dc=					
$\label{eq:starsest} \begin{array}{l} \underline{Shear\ Check;}\\ Vu@\ d = \gamma[\beta LL*WII + \beta DL*WdI] * \\ [(span/2) - d] = 3.99\ klps/ft\\ (AASHTO 8-49) & \phi Vc = 6.58\ klps/ft\ OK\\ \end{tabular}$	$A = 2 * dc^* Spacing =$					
Vu@ d = $\gamma[\beta LL*W!! + \beta DL*Wd!]$ * [(span/2) - d] = 3.99 klps/ft (AASHTO 8-49) ϕ Vc = 6.58 klps/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) ϕ Mn \geq 1.2*Mor Mcr = 3.18 klp-ft		39 klps/in	ок			
$[(span/2) - d] = 3.99 klps/tt$ (AASHTO 8-49) ϕ Vc = 6.58 klps/ft OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\frac{\phi Mn \ge 1.2^* Mcr}{Mcr}$ Mcr = 3.18 klp-ft	Shear Check:					
(AASHTO 8-49) $\phi Vc = 6.58 \text{ kips/ft}$ OK Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) $\underline{\phi Mn \ge 1.2^{*} \text{Mor}}$ Mcr = 3.18 kip-ft		2 00 ki-s/#				
Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) <u>6Mn ≥ 1.2*Mor</u> Mcr = 3.18 klp-ft			ок			
Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) <u>&Mn ≥ 1.2*Mor</u> Mcr = 3.18 klp-ft	•	•				
<u>6Mn ≥ 1.2*Mcr</u> Mcr = 3.18 klp-ft						
Mcr = 3.18 klp-ft						
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ENGINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 COVER SLAB DESIGN UNIFORM LIVE LOAD MAX FILL ASTM C890 Length (I.D.) = 16.00 ft. Width (I.D.) = 6.00 ft. Wall Thickness = 6.00 in Stab Thickness = 6.00 in Earth Cover = 5.00 ft. Bar cover = 1.00 in	Project: Standard Vault Designs 6ft span HS-20 Loading Job #: 2009.015.019 Sheet: 10 of 70 By: KMK Date 1/12/2010 Chk By: <u>std</u> Date 1/2010
One Way Slab	
Span = 6.50 ft. Dead Loads: Soil = 0.60 ksf Concrete = 0.08 ksf Additional Uniform Dead Load = 0.00 ksf Total (wdi) = 0.68 ksf	
2-Way slab fac. (Distributed) = 1.000 (AASHTO 3.24.6) Mdl=wdl $l^2/8*$ (2-way slab factor) = 3.56 kip-ft DLA = 157.30 sf Wil = 0.20 ksf Mll=wll $l^2/8*$ (2-way slab factor) = 1.07 kip-ft $Mu = \gamma[\beta_{(L+I)}*MH + \beta_D*MdI] = 6.97$ kip-ft	i.1)
d = 4.56 in	
Req. Bar Size and Spacing Short Span: As = 1.03 in. sq/ft. Use #7	@ 7.0 in
Distribution Steel=.As/Span^.5= 0.40 in. sq/ft. Use #5	@ <u>-0.Q</u> in 7.Q
$\rho = As / b * d = 0.01882804$ $\rho * n = 0.13647002$ <u>Flexure Check:</u> $a = AsFy / 0.85fcb = 1.213 in$ $\phi Mn = \phi * As * Fy * (d - (a/2)) = 18.35 klp-ft OK$ <u>Cracking Check:</u> $k = \sqrt{(2\rho n + \rho n^2)} - \rho n = 0.402$	
j = 1 - (k/3) = 0.866 M = MdI + MII = 4.64 kip-ft fs = M / As j d = 13.67 ksi OK dc = 1.438 in A = 2 * dc * Spacing = 20.1 sq.in	
$Z = fs \sqrt[3]{(dc * A)} = 42 \text{ kips/in OK}$ $\frac{\text{Shear Check:}}{\text{Shear Check:}}$ $Vu@ d = \gamma[\beta LL*W11 + \beta DL*Wd1] *$ $[(span/2) - d] = 3.79 \text{ kips/ft}$ $(AASHTO 8-49) \phi Vc = 6.58 \text{ kips/ft OK}$	
Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) <u>∳Mn ≥ 1.2*Mcr</u>	
Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK	





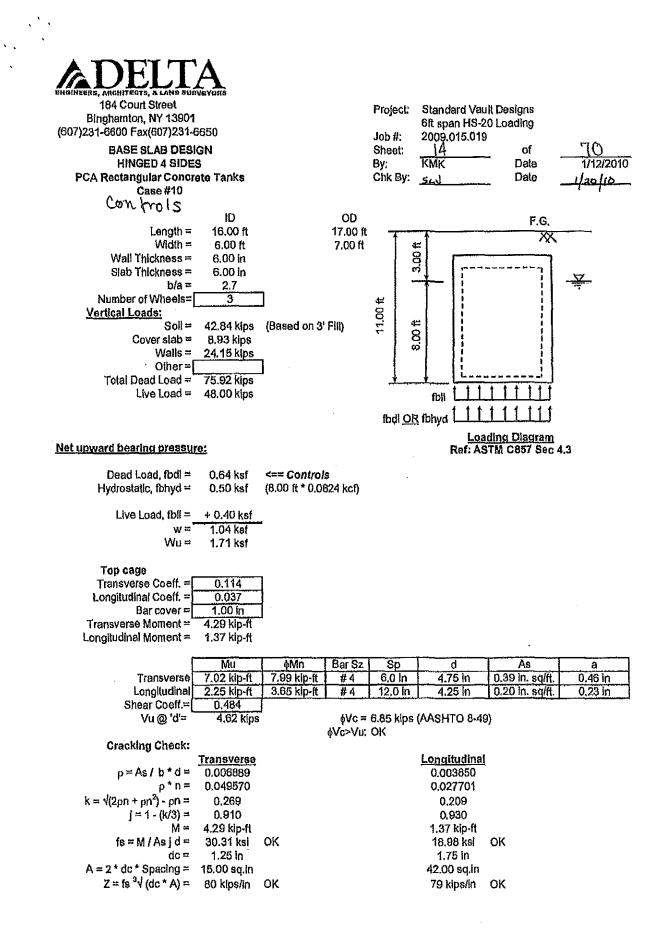


Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

Project:	Standard Vault De	esigns	
	6ft span HS-20 Lo	ading	
Job #.	2009.015.019	•	
Sheet:	13	of	-10
By:	KMK	Date	1/12/2010
Chk By:	51.1	Date	<u></u>





Project:	Standard Vault D 6ft span HS-20 L		
Job #:	2009.015.019	vuaing	-
Sheet: Bv:	15 KMK	of Date	1/12/2010
ву. Chk By:	SLJ	Date	1/20/10

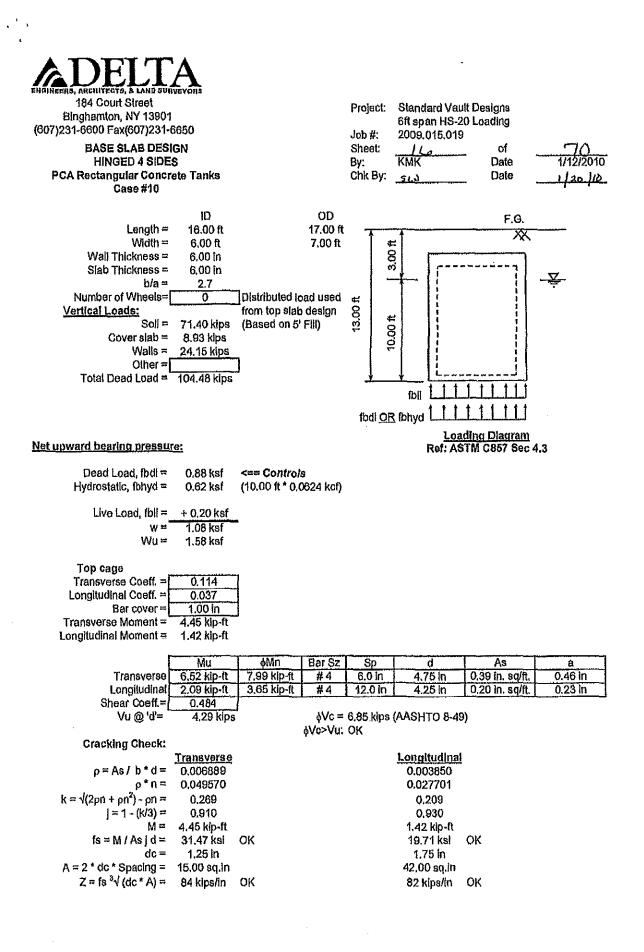
Base Slab Design Continued;

Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) Transverse: $\frac{\phi Mn \ge 1.2^*Mcr}{Mcr}$ Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK

> Longitudinal: <u>6Mn ≥ 1.2*Mcr</u> Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft

OR

<u>As(prov.) ≥ (1+1/3)*As(reg'd)</u> C= 3.61 As(reg)= 0.12 ln. sq/ft. 1+1/3 As≃ 0.16 in. sq/ft. OK





Project:	Standard Vault	Designs	
	6ft span HS-20 I	oading	
Job #: Sheet:	2009.015.019	of	70
By:	KMK	Date	1/12/2010
Chk By:	<u>_5ul</u>	Date	1/20/10

Base Slab Design Continued:

 Check minimum reinforcement requirements per AASHTO 8.17.1

 Note: Minimum As shall be at least 1/8 sq. In./ft (AASHTO 8.20.1)

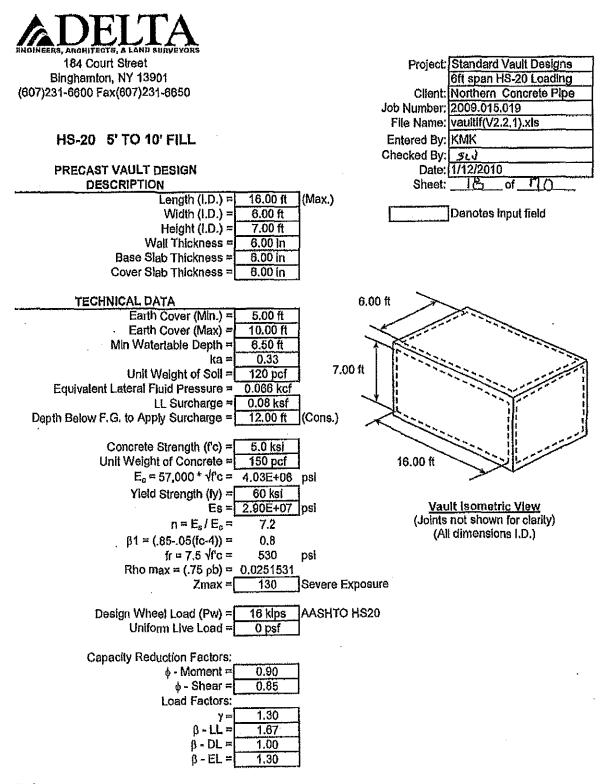
 Transverse:

 <u>åMn ≥ 1.2*Mcr</u>
 Mcr = 3.18 kip-ft
 1.2 Mcr = 3.82 kip-ft
 OK

> Longitudinal: <u>∲Mn ≥ 1,2*Mcr</u> Mcr ≍ 3.18 kip-ft 1.2 Mcr ≍ 3.82 kip-ft

OR

<u>As(prov.) ≥ (1+1/3)*As(reg'd)</u> C= 3.61 As(reg)= 0.11 in. sq/ft. 1+1/3 As= 0.15 in. sq/ft. OK



References;

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

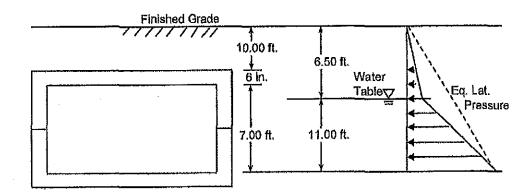
2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

3. "Theory of Plates and Shells" -- Timoshenko, S. 1959.

4. "Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures" – ASTM C890 ADDELIA ENGINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 EQUIVALENT LATERAL FLUID PRESSURE:

Project:	Standard Vault Designs				
	6ft span HS-20 Loading				
Job #:	2009.01	5.019			
Sheet:	19	of	70		
By:	KMK	Date	1/12/2010		
Chk By:	563	Date	1/20/10		

		-
Ka =	0.33	
Unit Wt. of Soil =	120 pcf	}
Max. Fill Above Structure =	10.00 ft.	(Worst Case)
Structure Inside Ht, =	7.00 ft.	
Top Slab Thickness =	6.00 in,]
Min. Watertable Depth =	6.50 fl.]
Lateral Pressure (Dry) ≓ (Ka*Soll Wt.)	39,6 pcf	•
Lateral Pressure (Sat.) = (Ka*(Soil Wt62.4pcf)+62.4pcf)	81.4 pcf	
Equivalent Lateral Pressure =	65.9 pcf	





Project:	Standar	d Vault De	signs
-	6ft span	HS-20 Lo	ading
Job#:	2009.01	5.019	
Sheet:	20	of	70
Ву:	KMK	Date	1/12/2010
Chk By:		Date	1/20/10

Determine Uniform Load From Wheel Live Load for Various Fill Depths

Distance Between CL of Wheel and CL of Truck: 3 ft Wheel Load;

16 kips

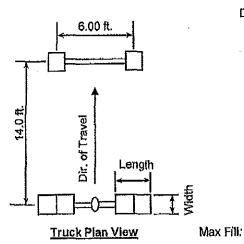
Length

Width

0.83 ft. AASHTO 3.30

Distribution Length = 1.75 x Depth of Fill + Length of Dual Wheel Dimensions Distribution Width = 1.75 x Depth of Fill + Width of Dual Wheel Dimensions

Dual Wheel Dimensions: 1.67 ft.



Depth of	Distrib.	Distrib.	Lengths	DLA	Uniform
Fill (ft)	Length	Width	Overlap?	ft^2	Load psf
3.0	6.92	6.08	YES	42.1	380.3
3.5	7.80	6,96	YES	95.9	333.5
4.0	8.67	7,83	YES	114.9	278.6
4.5	9.55	8.71	YES	135.3	236.5
5.0	10.42	9.58	YES	157.3	203.4
5.5	11.30	10.46	YES	180.8	177.0
6.0	12.17	11.33	YES	205.9	155.4
6.5	13.05	12.21	YES	232.4	137.7
7.0	13.92	13.08	YES	260.6	122.8
7.5	14.80	13,96	YES	290.2	110.3
5.0	10.42	9.58	YES	157,3	203.4
10.0	19.17	18.33	YES	461,4	69.4

Design Min Fill =	5.00 ft	157.3	203,4
Design Max Fill =	10.00 ft	461,4	69,4

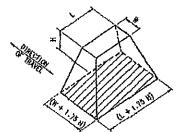


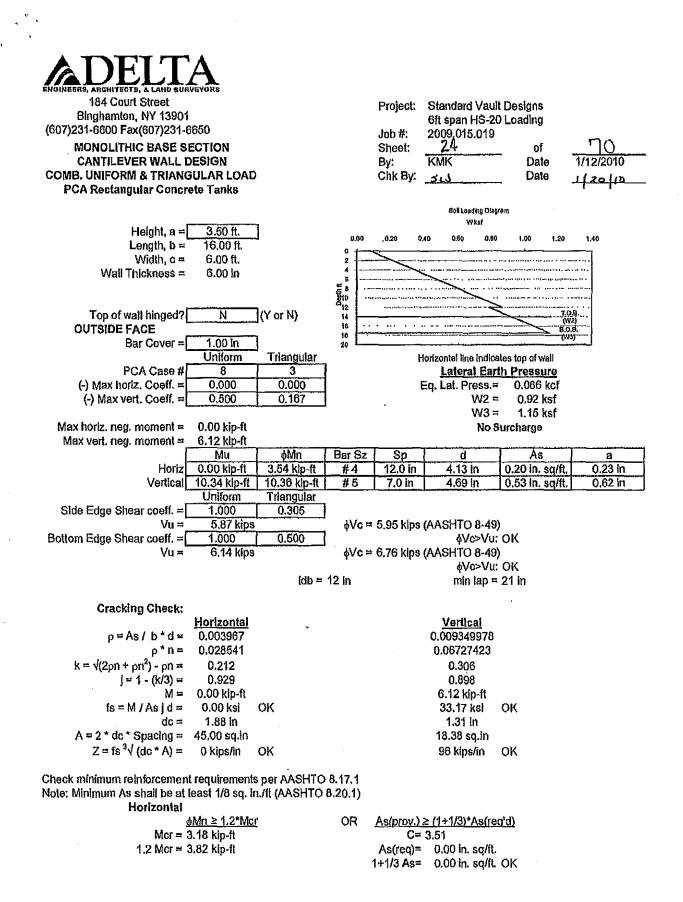
FIG. 4 Distributed Load Area (REF "ASTM C 890-91")

Note: If design fill < 3', design using concentrated load case

ENGINEERIS, ARGHIYEOYS, & LAND SURVEYONS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 COVER SLAB DESIGN UNIFORM LIVE LOAD MAX FILL ASTM C890 Length (I.D.) = Width (I.D.) = Width (I.D.) = Slab Thickness = Earth Cover = Bar cover =	A tvols 16.00 ft. 6.00 ft. 6.00 in 6.00 in 10.00 ft. 1.00 in]	Project: Job #: Sheet: By: Chk By:	Standard Vault 6ft span HS-20 2009.015.019 KMK S4J	
	One Way Sla	b			
Span =	6.50 ft.	-			
Dead Loads: Soll = Concrete =	1.20 ksf 0,08 ksf				
Additional Uniform Dead Load =	0,00 ksf]			
Total (wdi) =	1.28 ksf	-			
2-Way slab fac. (Distributed) =	1.000	(AASHTO 3.24.6.	1)		
Mdl=wdl ² / 8 * (2-way slab factor) =	6.73 kip-ft	(1001) 0 0100	.,		
DLA =	461.37 sf				
WII=	0.07 ksf				
Mil=wil ²/8 * (2-way slab factor) =	0.37 kip-ft				
$Mu = \gamma[\beta_{(L+1)} * Mll + \beta_{D} * Mdl] =$	9.55 kip-ft				
d ≓	4.69 In				
Reg. Bar Size and Spacing					
Short Span: As =	0.61 in. sq/ft	Use #5	@	6,0 in	
the full states of the Andrewski Bar	0.0430 -0/4	Use #5	0	45.0 in	
Distribution Steel=.As/Span^.5=	0.24 m. sym	Use #5			
				12.0	
ρ=As/b*d≈					
ף* תד <u>Flexure Check:</u>	0.0784866				
a = AsFy / 0.85fcb =	0.722 in				
φMn = φ*As*Éy*(d-(a/2)) =		ОК			
Cracking Check:	0.005				
k = √(2pn + pn²) - pn =] = 1 - (k/3) =	0,325 0,892				
M = Mol + Mil =	7.10 kip-fl				
fs = M / As j d =	33.23 ksi	ОК			
	1,313 in				
$A = 2 * dc * Spacing = Z = is 3 \sqrt{(dc * A)} =$	15.8 sq.in 91 kips/in	ок			
Shear Check:	• • • • • •				
$Vu@ d = \gamma[\beta LL^*WII + \beta DL^*WdI]^*$					
[(span/2) - d] =		<u>AU</u>			
(AASHTO 8-49)	6.76 kips/ft	UK			
Check minimum reinforcement requireme	ents per AASI	ITO 8.17.1			
Note: Minimum As shall be at least 1/8 s	q. in./ft (AASH	iTO 8.20.1)			
	<u>∲Mn ≥ 1.2*M</u> 3.18 kip-ft	<u> </u>			
	3.82 kip-ft	ок			

ENGINEERS, ARCHITECTS, & LAND BURVEYORS						
184 Court Street			Destants	Claudard Varil	Panolani	
Binghamton, NY 13901			Project:	Standard Vault 6/t span HS-20		
(607)231-6600 Fax(607)231-6650			Job #:	2009.015.019	Lyuung	,
COVER SLAB DESIGN			Sheet:	22_	of	0
UNIFORM LIVE LOAD			By:	KMK	Date	1/12/2010
MIN. FILL			Chk By:	365	Date	1/20/10
ASTM C890	16.00 ft.					
Length (I.D.) = Width (I.D.) =						
Wall Thickness =						
Slab Thickness =	6.00 in	_				
Earth Cover =	The second se	4				
Bar cover =	<u> 1.00 in</u>	J				
	One Way Sla	h				
Span =						
Dead Loads: Soll =	0.60 ksf					
Concrete =	Martin Concerning Statements	-				
Additional Uniform Dead Load =		1				
Total (wdl) =	0.68 ksf					. •
2-Way slab fac. (Distributed)≃	1,000	(AASHTO 3.24.6.	1)			
Mdl=wdl I2/8 * (2-way stab factor) =						
DLA =						
₩ =						
$MII=WII ^2 / 8 * (2-way stab factor) =$						
$Mu = \gamma[\beta_{(L+1)} * M1] + \beta_D * Mdi] =$	6.97 kip-ft					
d =	4.69 in					
Req. Bar Size and Spacing						
Short Span: As =	0.61 in. sq/ft	Use #6	@	6.0 in		
Distribution Steel=.As/Span^.5=	0.24 in. sq/ft	. Use #5	0	75.0 in		
				12.0		
ρ=As/b*d=	0.01090831					
p*n≈						
Flexure Check:						
a = AsFy / 0.85fcb =		OK				
φMn ≍ φ*As*Fy*(d-(a/2)) = <u>Cracking Check:</u>		UK				
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n =$						
j = 1 - (k/3) =						
M = Mdl + Mll =	4.64 kip-ft					
fs = M / Asjd ⇒		ок				
do≃ Aur 0 t da t Duasiaa =						
A = 2 * dc * Spacing = Z = is ³ √ (dc * A) =		ок				
Shear Check:		UK				
$Vu@d = \gamma[\beta LL*WII + \beta DL*WdI] *$						
[(span/2) - d] =						
	6.76 kips/it	ОК				*
	•					
Check minimum reinforcement requirem						
Note: Minimum As shell be at least 1/8 s	q. in.m (AASF <u>øMn ≥ 1.2*M</u>					
Mor⇒	3.18 klp-ft	==4,				
	3.82 kip-ft	ок				

ENGINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 MONOLITHIC TOP SECTION CANTILEVER WALL DESIGN UNIFORM LOAD	Project: Standard Vault Designs 6ft span HS-20 Loading Job #: 2009.015.019 Sheet: 23 of 70 By: KMK Date 1/19/2010 Chk By: 51.1 Date 1 (20)10
	8691Loading Diagram Wks1 0,00 0.20 0,40 0.80 0.80 1.00 1.20 1.40
	0 120 140 140 140 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bottom of wall hinged? N (Y or N)	
OUTSIDE FACE PCA Case # 8 Bar Cover = 1.00 in Max horiz, Coeff. = 0.000 Max vert, Coeff. = 0.500 Max horiz, neg. moment = 0.00 kip-ft Max vert, neg. moment = 5.43 kip-ft	Horizontal lines Indicate top & bottom of wall <u>Lateral Earth Pressure</u> Eq. Lat. Press. = 0.066 kcf W2 = 0.77 ksf W3 = 1.00 ksf Wavg = 0.89 ksf (Surcharge Applied Over Entire Height of Unit)
	arSz Sp d As a
Vertical 9.18 kip-ft 11.95 kip-ft	#4 12.0 in 4.13 in 0.20 in. sq/ft. 0.23 in #5 6.0 in 4.69 in 0.61 in. sq/ft. 0.72 in
Shear coeff. ≓ 1.000 Vu ≓ 5.25 kips ¢V	φVc = 5.95 klps (AASHTO 8-49) /c>Vu: OK ldb≖ 12 in
Cracking Check:	
<u>Horizontal</u> ρ = As / b * d = 0.003967 ρ * n = 0.028541 k = √(2ρn + ρn²) - ρn = 0.212	<u>Vertical</u> 0.010908 0.078487 0.325
j = 1 - (k/3) = 0.929	0.892
M = 0.00 kip-ft fs = M / As] d = 0.00 ksi OK	5.43 kip-ft 25.43 ksi OK
$dc = 1.88 \ln$	1.31 in
A = 2 * dc * Spacing = 45.00 sq.in Z = fs $^{3}\sqrt{(dc * A)}$ = 0 kips/in OK	15.75 sq.in
$Z = fs^3 \sqrt{(dc^* A)} = 0$ kips/in OK	70 kips/in OK
Horizontal	As(prov.) \geq (1+1/3)*As(req'd)
<u>∳Mn ≥ 1.2*Mor</u> Mcr = 3.18 klp-ft 1.2 Mcr = 3.82 kip-ft	OR C= 3.51 As(req)= 0.00 in. sq/ft. 1+1/3 As= 0.00 in. sq/ft. OK
Note: Minimum As shall be at least 1/8 sq. in.//t (AASHTO 8.2 Vertical	
	OR



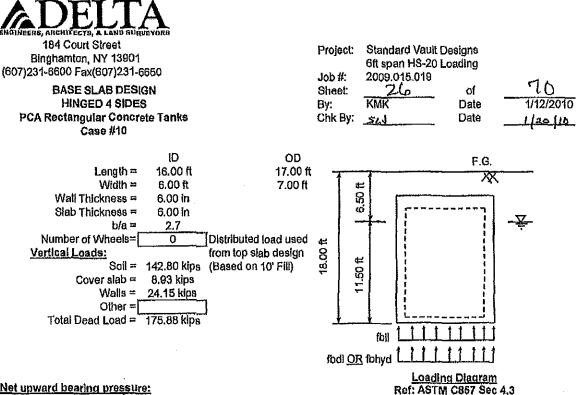


Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

Project:	Standard Vault Designs			
	6ft span HS-20 Lo	bading		
Hob #:	2009.015.019		<u> </u>	
Sheet:	25	of	10	
By:	KMK	Date	1/12/2010	
Chk By:	519	Date	1/20/12	



Net upward bearing pressure:

Dead Load, fbdl = 1.48 ksf <== Controls Hydrostatic, fbhyd = 0,72 ksf (11.50 ft * 0,0624 kcl)

Live Load, fbli = + 0.07 ksf w = ' 1.55 ksf Wu≖ 2.07 ksf

Top cage

Transverse Coeff =	0.114
Longitudinal Coeff. =	0.037
Bar cover =	
Transverse Moment =	6.37 klp-ft
Longitudinal Moment =	2,04 kip-ft

	Mu	φMn	Bar Sz	Sp	d	As	a
Transverse	8.53 klp-ft	10.36 kip-fi	#5	7.0 In	4.69 in	0,53 in, sq/ft.	0.62 in
Longitudinal	2,73 kip-ft	4.23 kip-ft	#4	10.0 in	4.13 In	0.24 in. sq/ft.	0.28 in
Shear Coeff.=/	0,484						
Vu @ 'd'=	5,63 klps	♦Vc = 6,76 kips (AASHTO 8-49)					

Cracking Check:

	Transverse	
ρ=As/b*d≕	0.009350	
ρ*n≂	0.067274	
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n =$	0.306	
) = 1 - (k/3) =	0.898	
M ≖	6.37 kip-ft	
fs = M / As j d =	34.54 ksl	OK
dc ≍	1.31 in	
A = 2 * dc * Spacing =	18.38 sq.in	
Z = fs ³ √ (dc * A) =	100 kíps/in	OK

ψVc>Vu: OK

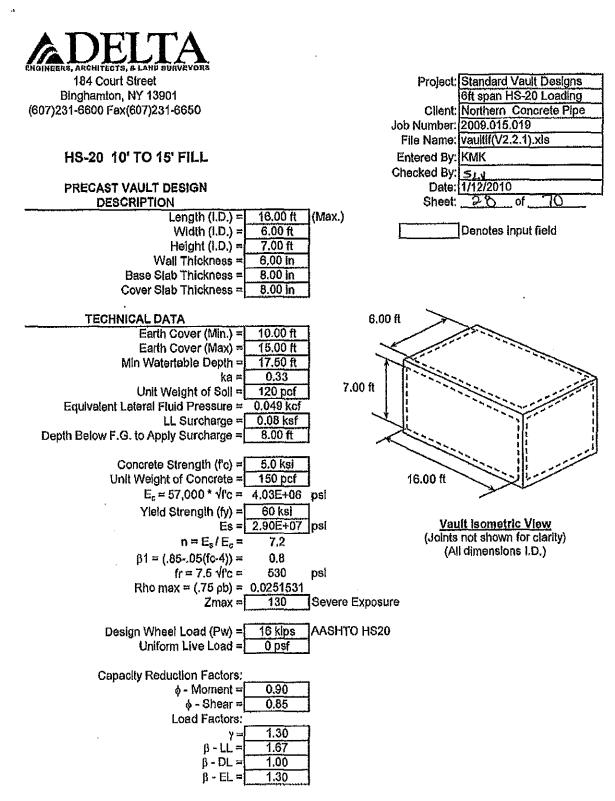
OK
OK



Project:	Standard Vault Designs			
	6ft span HS-20 l	Loading		
Job #:	2009.015.019	_		
Sheet	27	of	10	
By:	KMK	Date	1/12/2010	
Chk By:	5:20	Date	-1120110	

Base Slab Design Continued;

Longitudinal: <u>∳Mn ≥ 1,2*Mcr</u> Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK



References:

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

4. "Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures" – ASTM C890

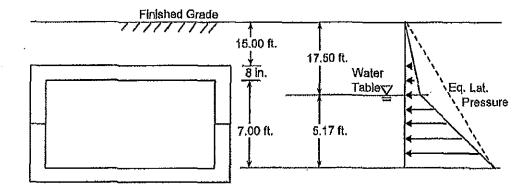
ENGINEERS, ARCHIFECTS, & LAND SURVEYORS
184 Court Street
Binghamton, NY 13901
(607)231-6600 Fax(607)231-6650
EQUIVALENT LATERAL
FLUID PRESSURE:

Project:	Standard Vault Designs			
	6ft span	HS-20 L	oading	
Job #:	2009,01	5.019	-	
Sheet:	29	of	10	
By:	KMK	Date	1/12/2010	
Chk By:	529	Date	1/20/10	

L

Ка =	0.33	
Unit Wt. of Soil =	120 pcf	
Max. Fill Above Structure =	15.00 ft,	(Worst Case)
Structure Inside Ht. =	7.00 ft.	
Top Slab Thickness =	8.00 in.	
Min. Watertable Depth =	17.50 ft.	
Lateral Pressure (Dry) = (Ka*Soll Wt.)	39.6 pcf	
Lateral Pressure (Sat.) = (Ka*(Soli Wt62.4pcf)+62.4pcf)	81.4 pcf	

Equivalent Lateral Pressure = 49.1 pcf





Project:	Standar	d Vault De	isigns	
•		HS-20 Lo	ading	
Job #:	2009.015.019			
Sheet:	.30	of	70	
By:	KMK	Date	1/12/2010	
Chk By:	الانع	Date	_1/20/10_	

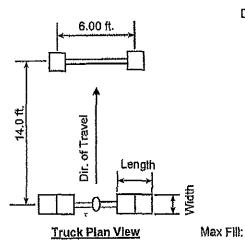
Determine Uniform Load From Wheel Live Load for Various Fill Depths Distance Between CL of Wheel and CL of Truck: 3

l and CL of Truck: 3 ft Wheel Load: 16 kips

Length

Distribution Length = 1.75 x Depth of Fill + Length of Dual Wheel Dimensions Distribution Width = 1.75 x Depth of Fill + Width of Dual Wheel Dimensions

Dual Wheel Dimensions: 1,67 ft.



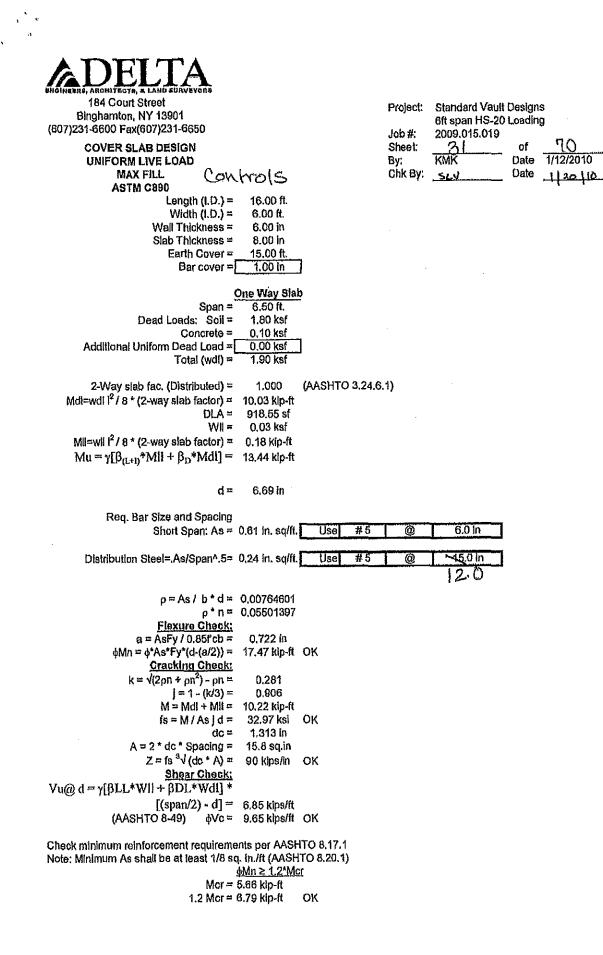
Depth of	Distrib,	Distrib.	Lengths	DLA	Uniform
Fill (ft)	Length	Width	Overlap?	ft^2	Load ost
3.0	6.92	6.08	YES	42.1	380.3
3.5	7.80	6.96	YES	95.9	333.5
4,0	8.67	7.83	YES	114.9	278.6
4,5	9.55	8.71	YES	135.3	236.5
5.0	10.42	9.58	YES	157.3	203.4
5.5	11.30	10.46	YES	180.8	177.0
6.0	12,17	11.33	YES	205.9	155,4
6.5	13.05	12.21	YES	232.4	137.7
7.0	13.92	13.08	YES	260.6	122,8
7,5	14.80	13.96	YES	290.2	110.3
10.0	19.17	18,33	YES	461,4	69.4
15.0	27,92	27.08	YES	918.6	34.8

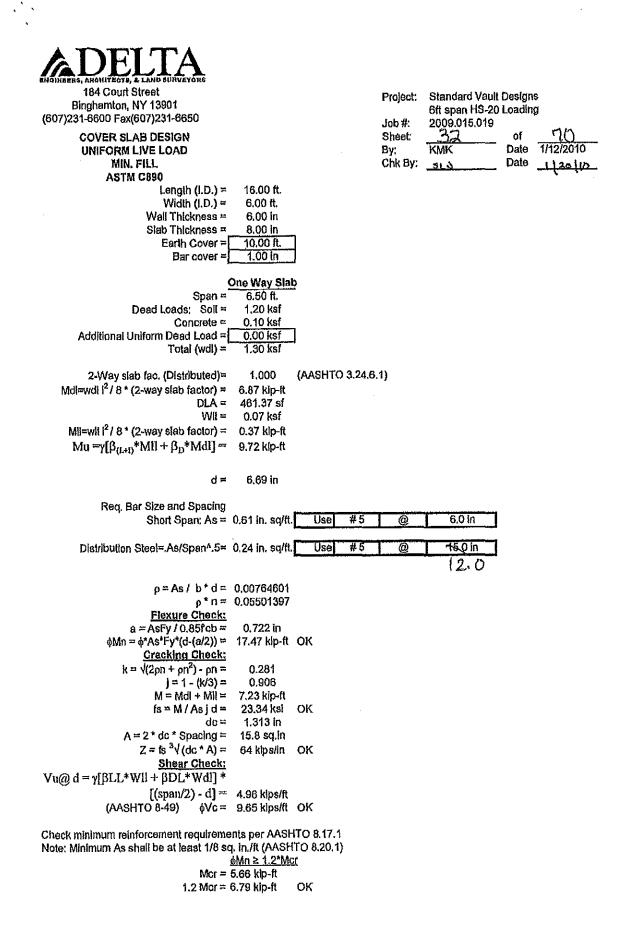
Width

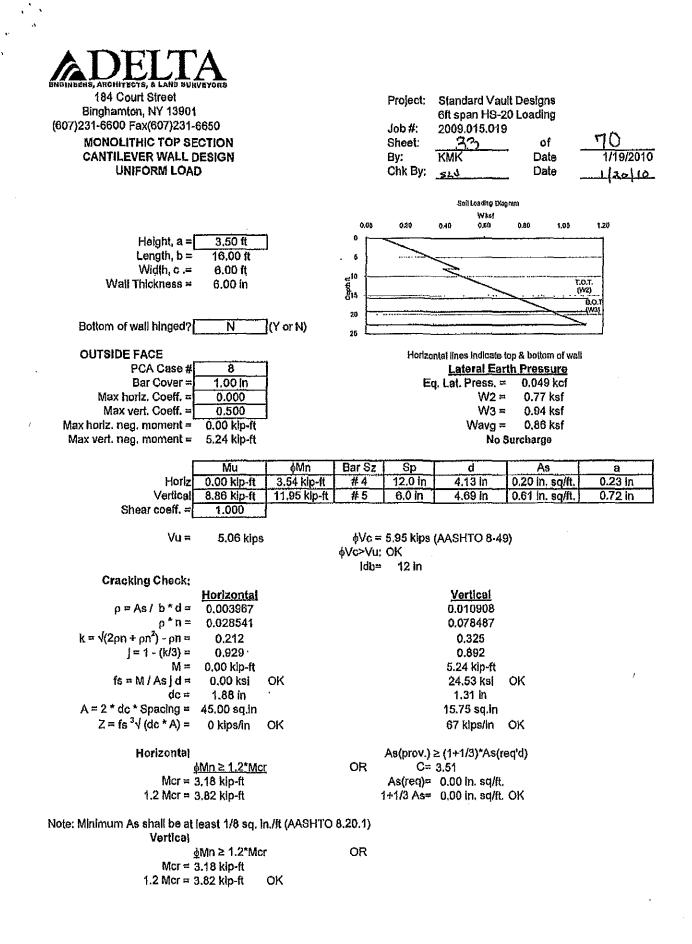
0.83 ft. AASHTO 3.30

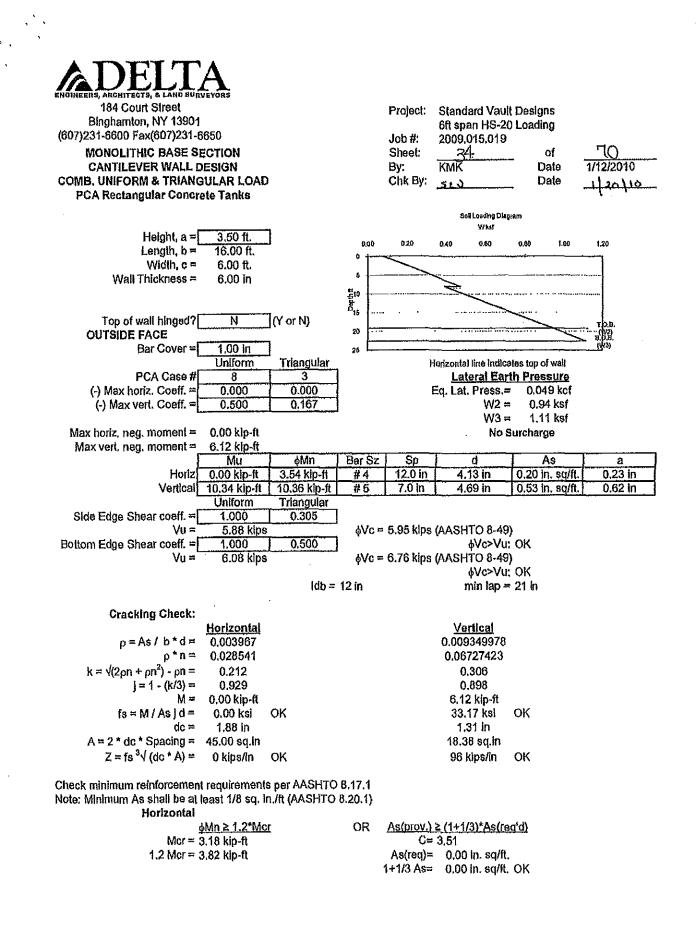
Design Min Fill =	10.00 ft	461.4	69.4
Design Max Fill =	15.00 ft	918,6	34.8

FIG. 4 Distributed Load Area (REF "ASTM C 890-91") Note: If design fill < 3', design using concentrated load case









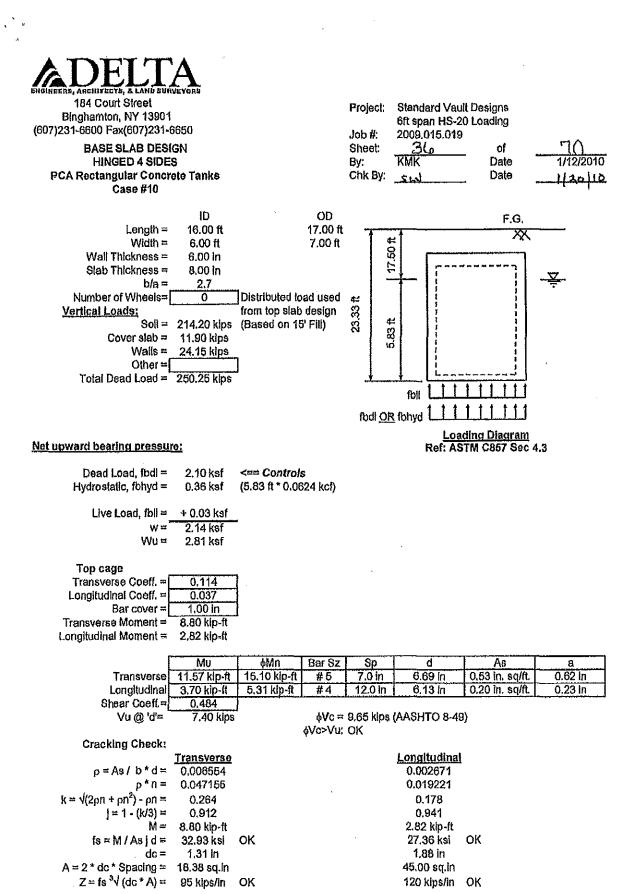


Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

Project:	Standard Vault D	esigns	
	6ft span HS-20 Lo	bading	
Job #:	2009.015.019	-	
Sheet:	35	of	70
By:	KMK	Dale	1/12/2010
Chk By:	SLÙ	Date	1/20/10



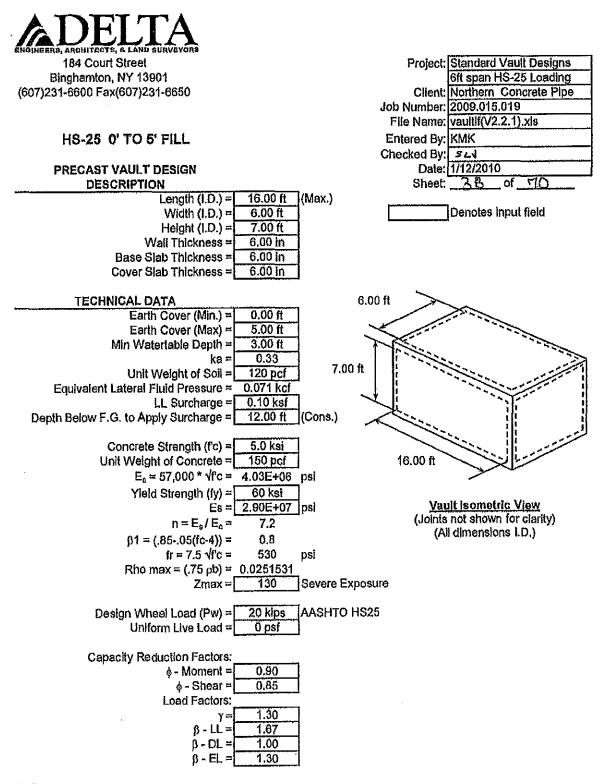


Project;	Standard Vault D)esigns	
-	6ft span HS-20 L	oading	
Job #:	2009.015.019	-	
Sheet:	37	of	10
By:	KMK	Date	1/12/2010
Chk By:	54	Date	1/20/10

Base Slab Design Continued:

OR

 $\begin{array}{l} \underline{As(prov.)} \geq (1+1/3)^*As(reg'd) \\ C= 5.21 \\ As(reg)= 0.14 \text{ in. sg/ft.} \\ 1+1/3 \text{ As}= 0.18 \text{ in. sg/ft. OK} \end{array}$



References:

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

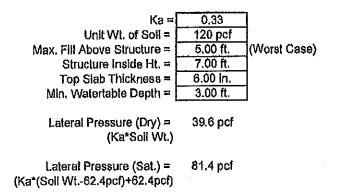
3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

4. "Standard Practice for Minimum Structural Design Loading for Monolithic or

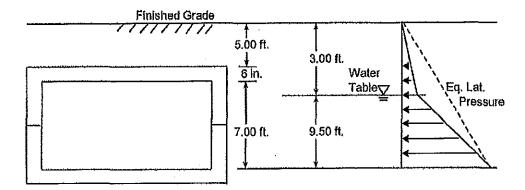
Sectional Precast Concrete Water and Wastewater Structures" - ASTM C890

ENDINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 EQUIVALENT LATERAL FLUID PRESSURE:

Project:	Standard Vault Designs			
-	6ft span	HS-25 Lo	bading	
Job #:	2009.016	5.019	_	
Sheet:	39	of	70	
By:	KMK	Date	1/12/2010	
Chk By:	520	Date	1/20/10	



Equivalent Lateral Pressure = 71.4 pcf





Project:		d Vault De	
	6ft span	HS-25 Lo	ading
Job #:	2009.01	5.019	
Sheet:	40	of	- 70
By:	KMK	Date	1/12/2010
Chk By:	51	Date	1/20/10

Determine Uniform Load From Wheel Live Load for Various Fill Depths

Distance Between CL of Wheel and CL of Truck: 3 ft

Length

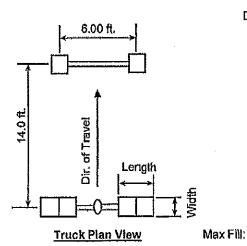
Wheel Load: 20 kips

Width

0.83 ft. AASHTO 3.30

Distribution Length = 1.75 x Depth of Fill + Length of Dual Wheel Dimensions Distribution Width = 1.75 x Depth of Fill + Width of Dual Wheel Dimensions

Dual Wheel Dimensions: 1.67 ft.



Depth of	Distrib,	Distrib.	Lengths	DLA	Uniform
Fill (ft)	Length	Width	Overlap?	ft^2	Load psf
3.0	6.92	6.08	YES	42.1	475.4
3,5	7.80	6.96	YES	95.9	416.9
4.0	8.67	7.83	YES	114.9	348.2
4.5	9.55	8.71	YES	135.3	295.6
5.0	10.42	9,58	YES	157.3	254.3
5,5	11.30	10.46	YES	180.8	221.2
6,0	12.17	11.33	YES	205.9	194.3
6,5	13.05	12.21	YES	232,4	172.1
7.0	13,92	13.08	YES	260.6	153.5
7.5	14,80	13.96	YES	290.2	137.8
3,0	6,92	6.08	YES	78.6	509.2
5,0	10.42	9.58	YES	157.3	254.3

Design Min Fill =	3.00 ft	42.1	475.4
Design Max Fill =	5.00 ft	157.3	254.3

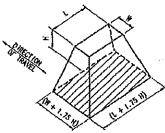
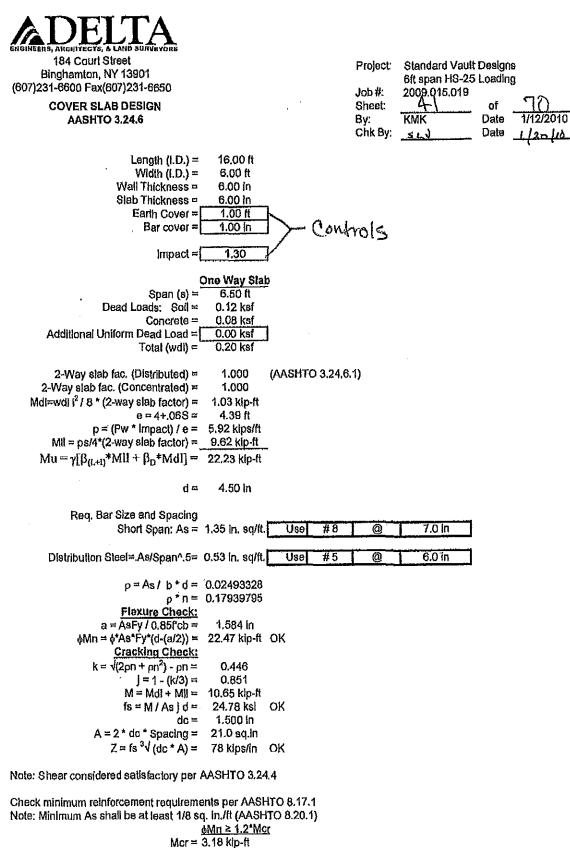
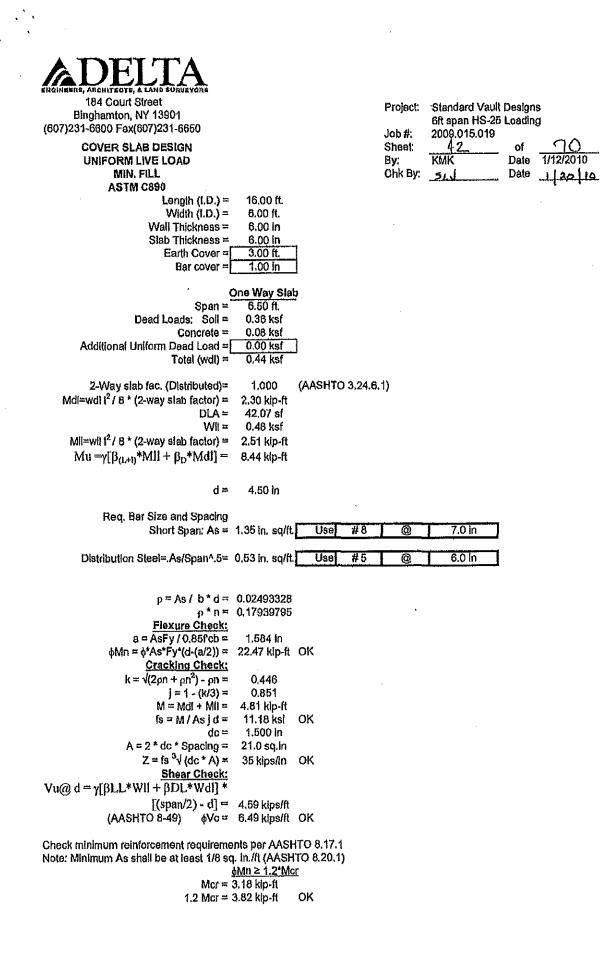


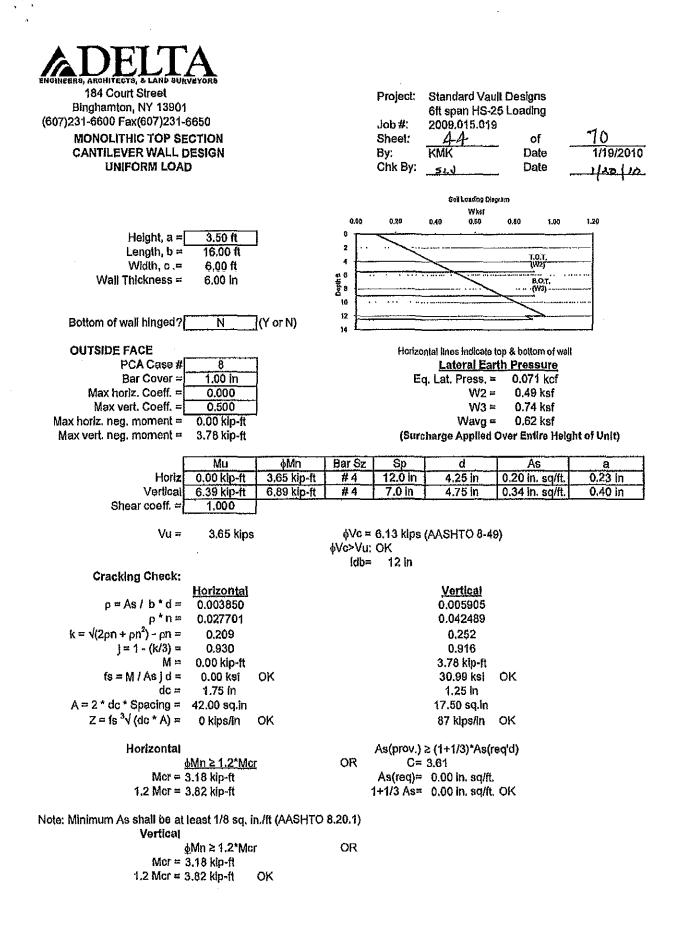
FIG. 4 Distributed Load Area (REF "ASTM C 890-91") Note: If design fill < 3', design using concentrated load case

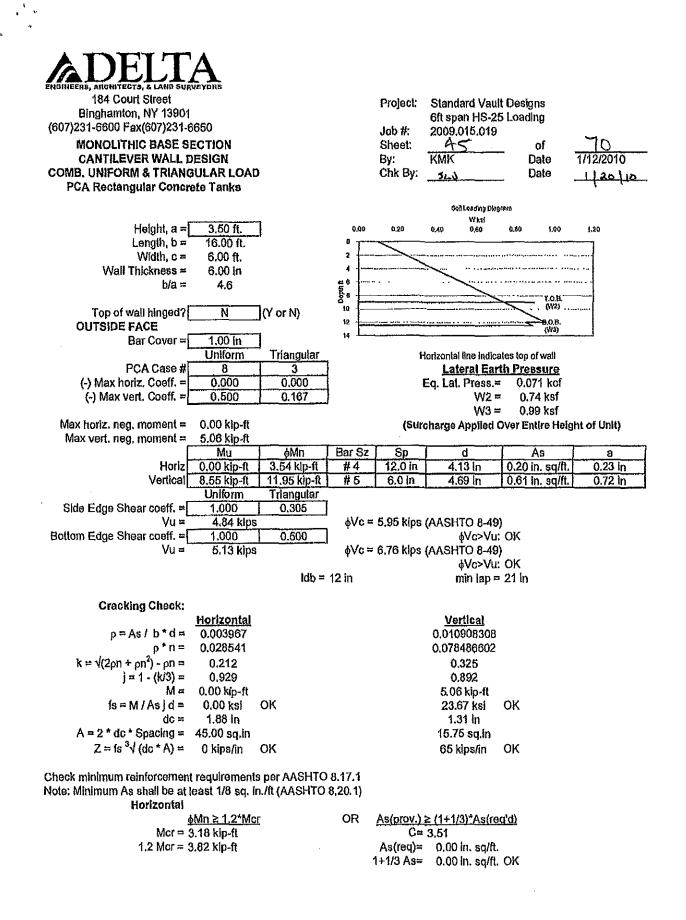


1.2 Mor = 3,82 kip-ft OK



ENGINEERIG, ARCHIVEROTA, & LAND SURVEYORG 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 COVER SLAB DESIGN UNIFORM LIVE LOAD MAX FILL ASTM CB90 Length (I.D.) = 16.00 Width (I.D.) = 6.00 Width (I.D.) = 6.00 Slab Thickness = 6.00 Slab Thickness = 6.00 Bar cover = 1.00	ft. in in ft	Project: Job #: Sheet: By: Chk By:	Standard Vault 6ft span HS-25 2009.015.019 <u>4-3</u> KMK <u>\$4.1</u>	
One Wa				
Span = 6,50 Dead Loads: Soil = 0,60 Concrete ¤ 0,08 AddItional Uniform Dead Load ≈ 0,00 Total (wdl) = 0,68	ksf ksf ksf			
2-Way slab fac. (Distributed) = 1.00	0 (AASHTO 3.24.	6.1)		
$Mdl=wdl l^2/8 * (2-way slab factor) = 3.56 k$,		
DLÁ ≓ 157.3	0 sf			
Wil = 0.25 Mil=wil ²/8*(2-way sleb factor) = 1.34				
MII=wil 2/8* (2-way slab factor) = 1.34 $Mu = \gamma [\beta_{(L+D} * MII + \beta_D * MdI] = 7.55 $				
TIXE HEALTH THE PUT TIXES TO A	ib.it			
d = 4,50	in			
Req. Bar Size and Spacing			7015	
Short Span: As = 1.35 In.	sq/ft. Use #8	@	7.0 in	
Distribution Steel=.As/Span^.5= 0.53 in.	sq/ft. Use #5	@	6.0 in	
ρ¤As/b*d≖ 0.0249	3328			
ρ*n= 0.1793				
Fiexure Check:	1 I.a			
a = ÅsFy / 0.85f'cb = 1.58 ∳Mn = ∳*As*Fy*(d-(a/2)) = 22.47				
Cracking Check:				
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n = 0.44$				
j⊏1-(k/3)≔ 0.8: M=MdI+MII= 4.91 k				
M = Mdi+ Mli≕ 4.91 k fs = M / Asjdi≕ 11.42				
dc = 1,500) în			
A = 2 * dc * Spacing = 21.0 s				
Z ≔ ís ³ √ (dc * A) = 36 kip <u>Shear Check:</u>	s/In OK			
$V_{II} = \gamma [\beta LL^* WII + \beta DL^* WdI]^*$				
[(span/2) - d] = 4.11 k	ps/ft			
(AASHTO 8-49) ∮Vc = 6.49 ki				
Check minimum reinforcement requirements per Note: Minimum As shall be at least 1/8 sq. in./ft ($\frac{1}{6}$ Mn \geq 1	ASHTO 8.20.1)			
1.2 Mer = 3.82 kip	-ft OK			*







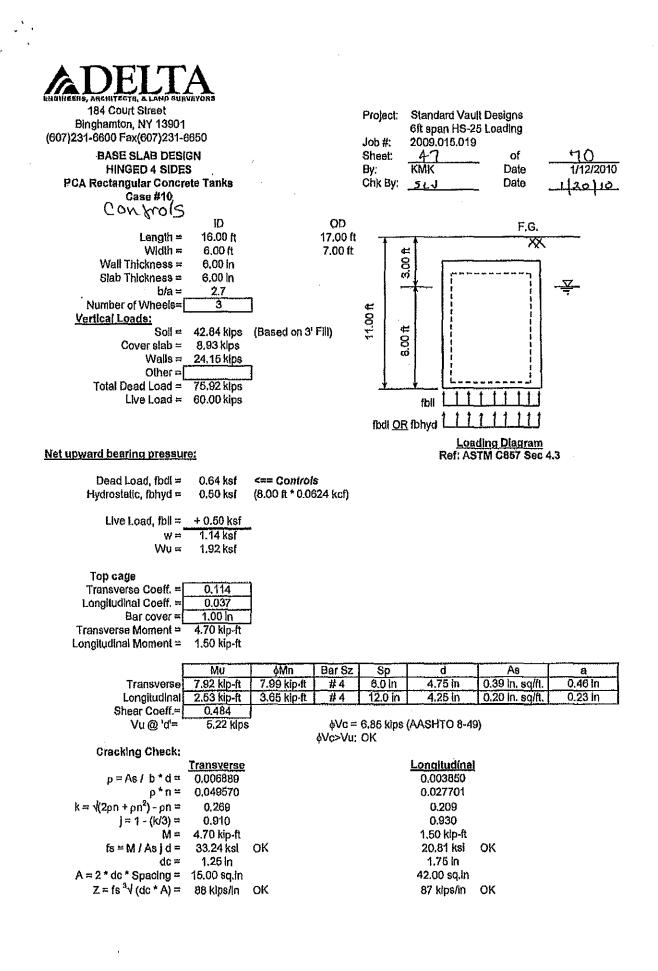
Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

 $\frac{6Mn \ge 1.2^{*}Mcr}{Mcr = 3.18 \text{ kip-ft}}$ 1.2 Mcr = 3.82 kip-ft OK

Project:	Standard Vault Do	esigns	
	6ft span HS-25 Lo	bading	
Job #:	2009.015.019		a . Post
Sheet:	46	of	-1D
By:	KMK	Date	1/12/2010
Chk By:	514	Date	1/20/10





Project:	Standard Vault D		
-	6ft span HS-25 L	oading	
Job #:	2009,015.019	_	-14
Sheet;	48	of	OI^{T}
By:	KMK	Date	1/12/2010
Chk By:	513	Date	1120/10

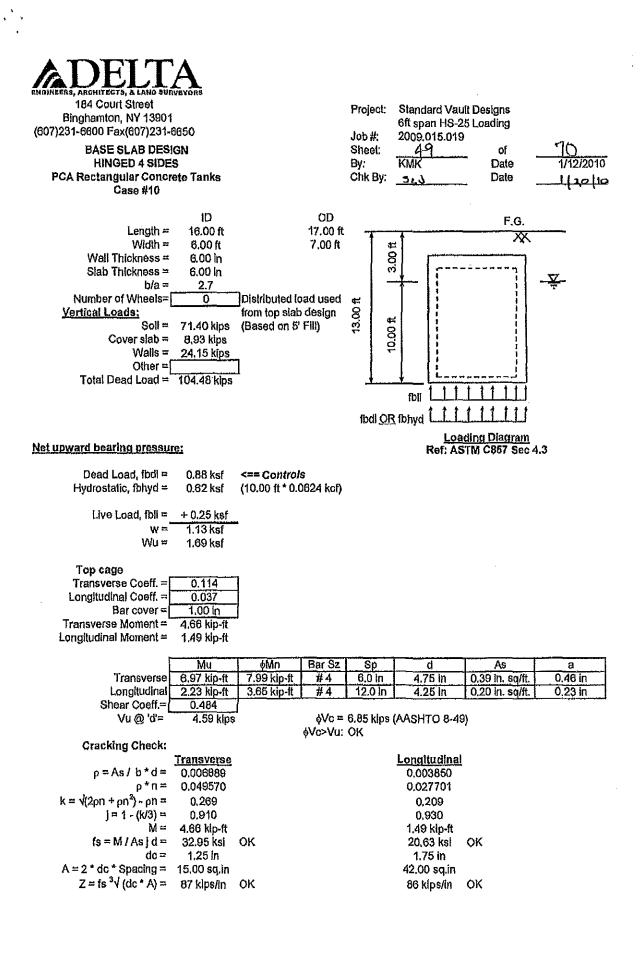
Base Slab Design Continued:

Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) Transverse: $\frac{6Mn \ge 1.2*Mcr}{Mcr = 3.18 \text{ kip-ft}}$ 1.2 Mcr = 3.82 kip-ft OK

> Longitudinal: <u>∳Mn ≥ 1.2*Mcr</u> Mcr = 3.18 kip-ft 1.2 Mcr ≍ 3.82 kip-ft

OR

<u>As(prov.) ≥ (1+1/3)*As(reg'd)</u> C= 3.61 As(reg)= 0.14 in. sg/ft. 1+1/3 As= 0,18 in. sg/ft. OK





Project:	Standard Vault D	esigns	
	6ft span HS-25 L	oading	
Job #:	2009.015.019		<i>.</i>
Sheet:	50	of	70
By:	KMK	Date	1/12/2010
Chk By:	513	Date	1/20/10

Base Slab Design Continued:

Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at least 1/8 sq. in./ft (AASHTO 8.20.1) Transverse: $\frac{\phi Mn \ge 1.2^*Mcr}{Mcr}$ Mcr = 3.18 klp-ft

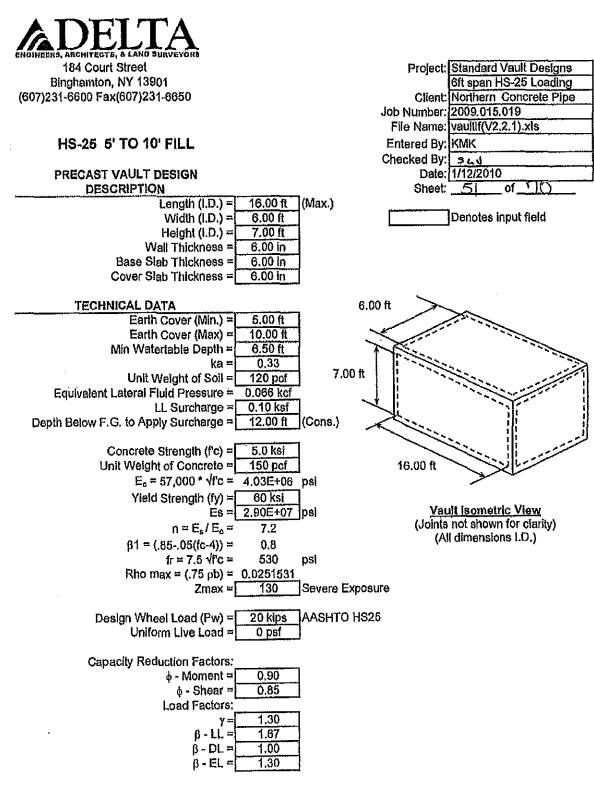
1.2 Mcr = 3.82 kip-ft ΟК

1.2 Mcr = 3.82 kip-ft

Longitudinal: <u>6Mn ≥ 1.2*Mcr</u> Mor = 3.18 klp-ft

OR

 $As(prov.) \ge (1+1/3)^*As(reg'd)$ C= 3.61 As(reg)= 0.12 in. sq/ft. 1+1/3 As= 0.16 in. sq/ft. OK



References:

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

4. "Standard Practice for Minimum Structural Design Loading for Monolithic or

Sectional Precast Concrete Water and Wastewater Structures" - ASTM C890



Project:	Standard Vault D	esigns	
	6ft span HS-25 L	oading	
Job #:	2009.015.019	-	
Sheet:	60	of	70
By:	KMK	Date	1/12/2010
Chk By:	561	Date	1/20/12

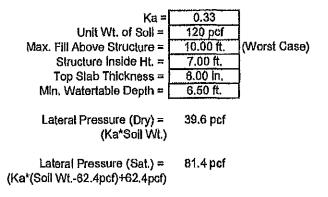
Base Slab Design Continued:

Check minimum reinforcement requirements per AASHTO 8.17.1 Note: Minimum As shall be at teast 1/8 sq. in./ft (AASHTO 8.20.1) Transverse: $\frac{\phi Mn \ge 1.2^*Mcr}{Mcr = 3.18 \text{ kip-ft}}$ 1.2 Mcr = 3.82 kip-ft OK

> Longitudinaf: <u>∳Mn ≥ 1.2*Mcr</u> Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK

ENGINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 EQUIVALENT LATERAL FLUID PRESSURE:

Project:	Standard Vault Designs			
	6ft span HS-25 Loading			
Job #:	2009.015.019			
Sheet:	57	of	10	
By:	KMK	Date	1/12/2010	
Chk By:	sis Date 1/20/10			



Equivalent Lateral Pressure = 65.9 pcf

Finished Grade 10.00 ft. 6 in. 7.00 ft. 11.00 ft. 10.00 ft.



Project:	Standar	d Vault De	signs
•	6ft span	HS-25 Lo	ading
Job #:	2009.01	5.019	
Sheet:	53	of	
By:	KMK	Date	1/12/2010
Chk By:	SLJ	Date	1/20/10

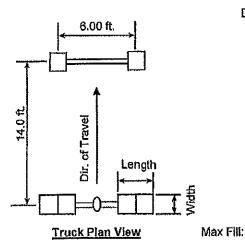
Determine Uniform Load From Wheel Live Load for Various Fill Depths

Distance Between CL of Wheel and CL of Truck: 3 ft Wheel Load: 20 kips

Length

Distribution Length = $1.75 \times \text{Depth of Fill} + \text{Length of Dual Wheel Dimensions}$ Distribution Width = $1.75 \times \text{Depth of Fill} + \text{Width of Dual Wheel Dimensions}$

Dual Wheel Dimensions: 1.67 ft.

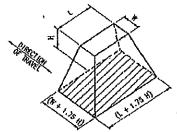


Depth of	Distrib.	Distrib.	Lengths	DLA	Uniform
Fill (ff)	Length	Width	Overlap?	ft^2	Load psf
3.0	6.92	6,08	YES	42.1	475.4
3.5	7,80	6.96	YES	95.9	416,9
4.0	8.67	7.83	YES	114.9	348,2
4.5	9.55	8.71	YES	135.3	295.6
5.0	10.42	9,58	YES	157.3	254,3
5.5	11.30	10,46	YES	180.8	221,2
6.0	12.17	11.33	YES	205.9	194.3
6.5	13.05	12.21	YES	232,4	172.1
7.0	13.92	13,08	YES	260.6	153,5
7.5	14.80	13.96	YES	290,2	137.8
5.0	10.42	9.58	YES	157.3	254,3
10.0	19.17	18,33	YES	461.4	86.7

Width

0.83 ft. AASHTO 3.30

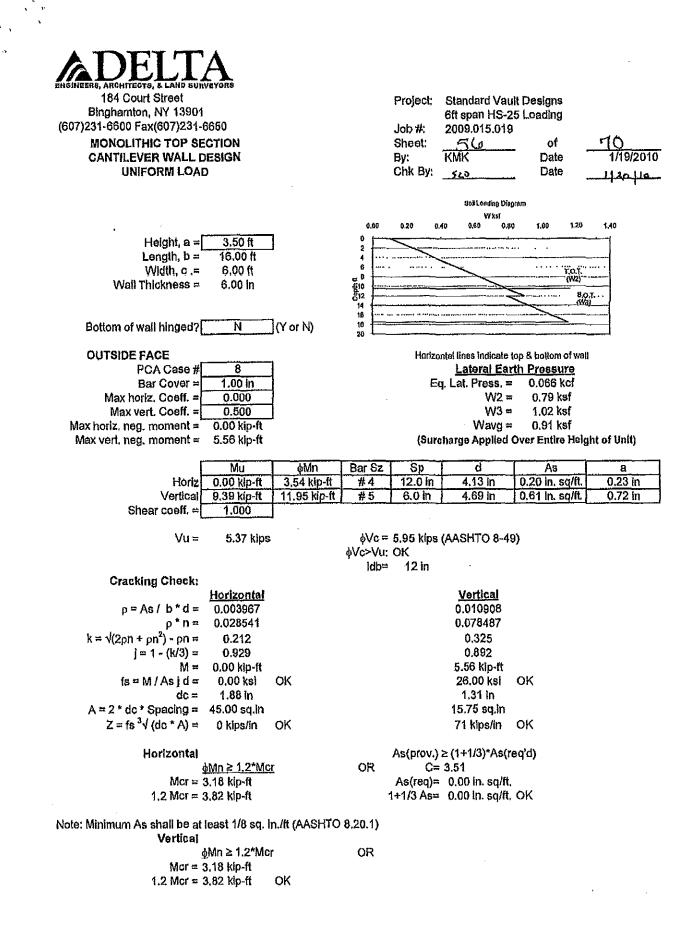
Design Min Fill =	5.00 ft	157.3	254.3
Design Max Fill =	10.00 ft	461.4	86.7

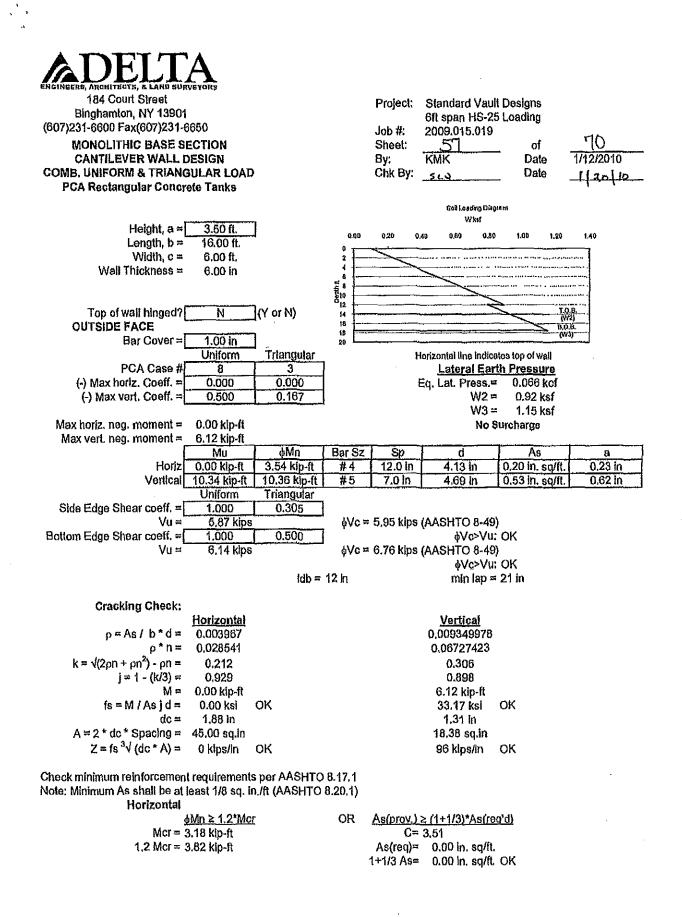


FIG, 4 Distributed Load Area (REF "ASTM C 890-91") Note: If design fill < 3', design using concentrated load case

ASTM C890 Length (I.D.) ≃ Width (I.D.) ⊂	16.00 ft. 6.00 ft.			Project: Job #: Sheet: By: Chk By:	Standard Vault 6ft span HS-26 2009.015.019 5 4 KMK SLV	
Wall Thickness = Slab Thickness = Earth Cover = Bar cover =[6,00 in 6.00 in 10.00 ft. 1.00 in]				
Span =	<u>Dne Way Sia</u> 6.50 ft.	þ				
Dead Loads: Soil =	1.20 ksf					
≍ Concrete Additional Uniform Dead Load	0.08 ksf 0.00 ksf	1				
Total (wdi) =	1.28 ksf	1				
2-Way slab fac. (Distributed) =	1.000	(AASHTO	3,24.6.1	1)		
Mdi=wdi i²/ 8 * (2-way slab factor) =	6,73 kip-ft	•	·			
DLA = WI =	461.37 sf					
Wit=wil I ² / 8 * (2-way slab factor) =	0.09 ksf 0.46 klp-fl					
$Mu = \gamma [\beta_{(L+1)} * M II + \beta_D * M di] =$	9.75 kip-ft					
d =	4,69 in					
Req. Bar Size and Spacing		_				
Short Span; As =	0,61 in. sq/ft.	Use	#5	@	6.0 in	
Distribution Steel=.As/Span^.5=	0,24 in. sq/ft	Use	#5	@	15.0 in	
					12.0	
p≠As/b*d=	0.01090831					
ף*ח= בייייים סוגים ביייים	0,0784866					
<u>Flexure Check:</u> a ≍ AsFy / 0.85fcb =	0.722 in					
φMn ≕ φ*As*Éy*(d-(a/2)) ≕ <u>Cracking Check:</u>	11.95 kip-ft	оК				
$k = \sqrt{(2\rho n + \rho n^2)} - \rho n \approx$	0.325					
] = 1 - (k/3) =	0.892					
M = Mdi + Mli ≕ fs = M / Asid =	7.19 kip-ft 33,66 ksl	ок				
dc =	1.313 In	011				
A = 2 * dc * Spacing =	15.8 sq.in					
Z = fs ³ √ (dc * A) = <u>Shear Check:</u>	92 kips/in	OK				
$V_{II} @ d = \gamma [\beta LL * WII + \beta DL * WdI] *$						
[(span/2) - d] =						
(AASHTO 8-49)	6.76 kips/ft	OK				
	ı. In./(t (AASH ¢Mn ≥ 1.2*Me	ITO 8.20.1)				
1.2 Mor ==	3.18 kip-ft 3.82 klp-ft	ок				

W	8901 131-6650 ESIGN LOAD	16.00 ft. 6.00 ft. 6.00 in <u>6.00 in</u> <u>5.00 ft.</u> 1.00 in			Project: Job #: Sheet: By: Chk By:	Standard Vault 6ft span HS-25 2009.015.019 55 KMK 5.3	
. Dead Additional Uniforr	Span = Loads: Soll = Concrete =	te Way Slat 6.50 ft. 0.60 ksf 0.08 ksf 0.08 ksf 0.68 ksf	2				
2-Way slab fac Mdi≃wdi l ² / 8 * (2-wa Mit≃wli l ² / 8 * (2-wa Mu ≕γ[β _(L+t) *Mit	y slab factor) = DLA = Wil = y slab factor) =	1.000 3.56 klp-ft 157.30 sf 0.25 ksf 1.34 klp-ft 7.55 klp-ft	(AASHTO	3.24.6.1)		
	d =	4.69 in					
	ų -	4,09 11					
	e and Spacing iort Span: As ≃_0,	.61 in. sa/ft.	Use	#5	Ø	6.0 in	~
	=.As/Span^.5= 0.	-	Use	#5	@	45.Q in (2.0	
E a = As \$Mn = \$As <u>Gri</u> k = √(2 k = √(2 f k = 2* Z = Vu@ d = γ[βLL*WII + [($\frac{\text{loxure Check:}}{\text{sFy / 0.85fcb} =} \frac{1}{3} \frac{1}$	0.0784866 0.722 in 1.95 klp-ft 0.325 0.892 4.91 klp-ft 22.97 ksi 1.313 in 15.8 sq.in 63 klps/ft 3.76 klps/ft in./ft (AASH <u>in ≥ 1.2*Mc</u> 18 klp-ft	OK OK OK ITO 8.17.1 TO 8.20.1) I				
	1.2 Mcr = 3.		ок				







Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

<u>6Mn ≥ 1.2*Mcr</u> Mcr = 3.18 kip-ft 1.2 Mcr = 3.82 kip-ft OK

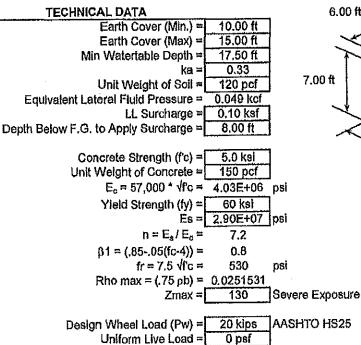
Project:	Standard Vault D		
	6ft span HS-25 L	oading	
Job #:	2009.015.019		
Sheet:	58	of	70
By:	KMK	Date	1/12/2010
Chk By:	<u>sis</u>	Date	1/20/10

ADELITA ENGINEERS, ARCHITECTS, & LAND SURVEYORS 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650

HS-25 10' TO 15' FILL

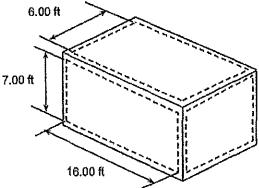
PRECAST VAULT DESIGN DESCRIPTION

CRIPTION		
Length (I.D.) =	16.00 ft	(Max.)
Width (I.D.) =	6.00 ft	
Height (I.D.) =	7.00 ft	
Wall Thickness =	6.00 in]
Base Slab Thickness =	8.00 ln	
Cover Sløb Thickness =	8.00 in	
		-



Project:	Standard Vault Designs
	Standard Vault Designs 6ft span HS-25 Loading
Client:	Northern Concrete Pipe
Job Number:	2009.015.019
File Name:	vaultif(V2.2.1).xls
Entered By:	
Checked By:	SLU
Date:	1/12/2010
Sheet:	(a]of_ <u>F10</u>

Denotes input field



Vault Isometric View (Joints not shown for clarily) (All dimensions I.D.)

Capacity Reduction Factors:

∳ - Moment =	0.90
φ - Shear =	0,85
Load Factors:	
γ =	1.30
β - LL ≃	1.67
β - DL =	1.00
β - EL =	1.30

References:

1. "Specifications for Highway Bridges, 17th Ed." - AASHTO

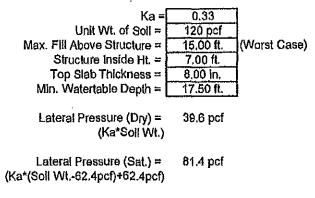
2. "Rectangular Concrete Tanks, 5th Ed." - PCA Publication.

3. "Theory of Plates and Shells" - Timoshenko, S. 1959.

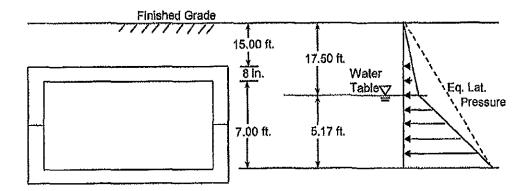
4. "Standard Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures" – ASTM C890



Project:	Standard		
	6ft span		pading
Job #:	2009.01	5.019	4.
Sheet:	62	of	70
By:	KMK	Date	1/12/2010
Chk By:	523	Date	1/20/10



Equivalent Lateral Pressure = 49.1 pcf





Project:	Standar	d Vault De	esigns
	6ft spar	1 HS-25 L¢	bading
Job #:	2009.01	5.019	
Sheet:	63	of	70
By:	KMK	Date	1/12/2010
Chk By:	519	Date	1/20/10

Determine Uniform Load From Wheel Live Load for Various Fill Depths

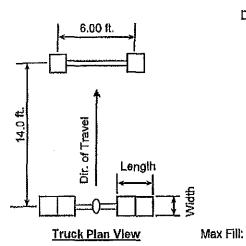
Distance Between CL of Wheel and CL of Truck: 3 ft

Length

Wheel Load: 20 kips

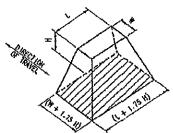
Width

Distribution Length = 1.75 x Depth of Fill + Length of Dual Wheel Dimensions Distribution Width = 1.75 x Depth of Fill + Width of Dual Wheel Dimensions



al Wheel Di		1.67 ft.		AASHTO	
Depth of	Distrib.	Distrib.	Lengths	DLA	Uniform
Fill (性)	Length	Width	Overlap?	ft^2	Load psf
3.0	6.92	6.08	YES	42.1	475.4
3.5	7.80	6.96	YES	95.9	416.9
4.0	8.67	7.83	YES	114.9	348.2
4.5	9.55	8.71	YES	135.3	295.6
5,0	10.42	9.58	YES	157.3	254.3
5.5	11.30	10.46	YES	180.8	221.2
6.0	12.17	11.33	YES	205.9	194.3
6.5	13.05	12.21	YES	232,4	172.1
7.0	13.92	13.08	YES	260.6	153.5
7.5	14.80	13.96	YES	290.2	137,8
10,0	19.17	18.33	YES	461,4	86.7
15,0	27.92	27.08	YES	918.6	43.5

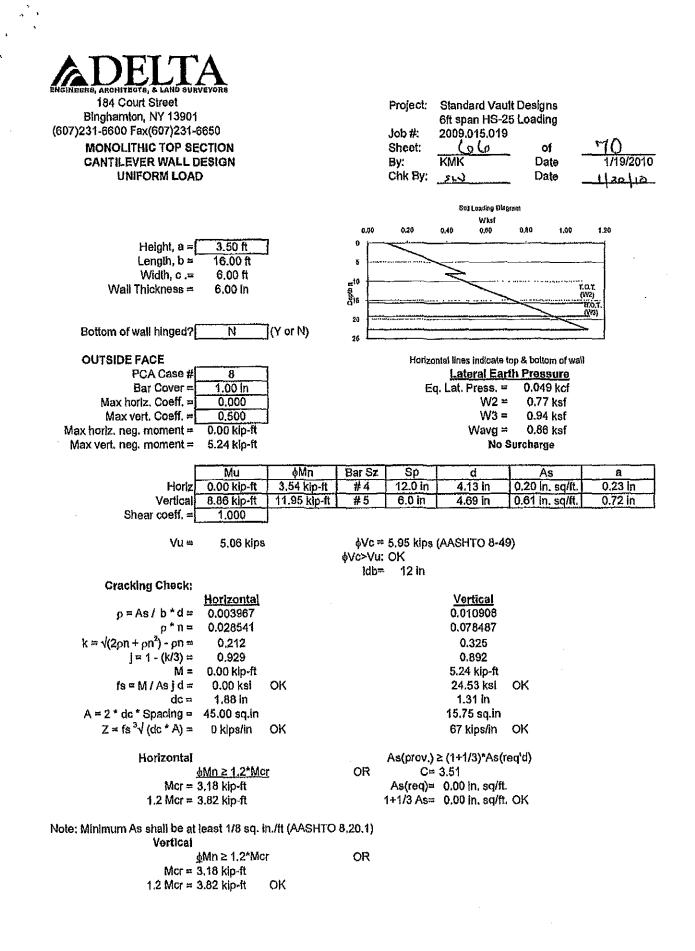
Design Min Fill =	10,00 ft	461.4	86.7
Design Max Fill =	15.00 ft	918,6	43,5

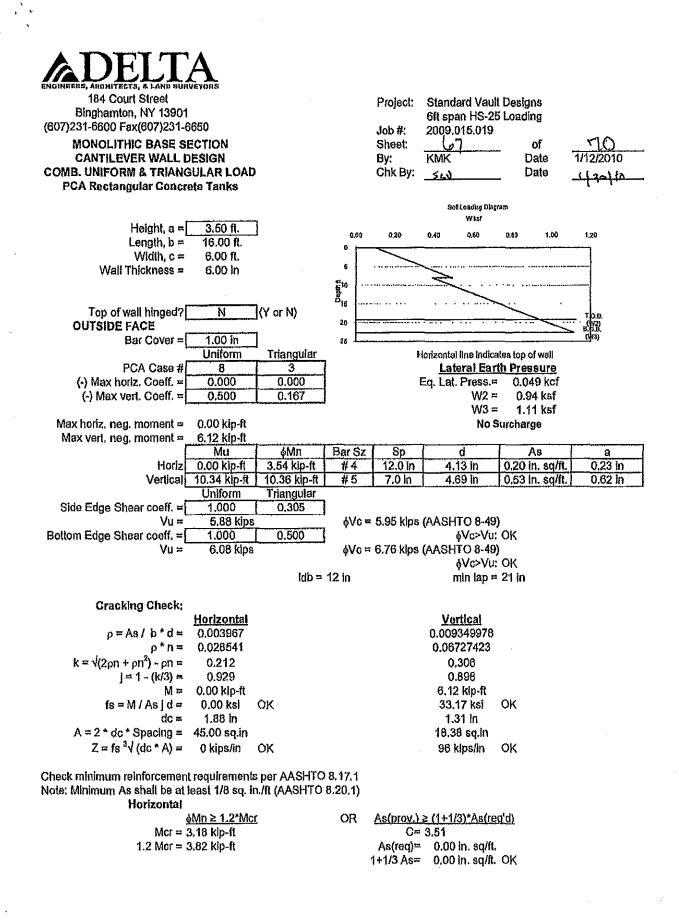


FIG, 4 Distributed Load Area (REF "ASTM C 890-91") Note: If design fill < 3', design using concentrated load case

ENGINEERS, ARCHIVEOYS, & LAND SUAVEYORS 184 Court Street Binghemton, NY 13901 (607)231-8600 Fax(607)231-8650 COVER SLAB DESIGN UNIFORM LIVE LOAD MAX FILL ASTM C890 Length (1.D.) = 16.00 Width (1.D.) = 6.00 Width (1.D.) = 6.00 Slab Thickness = 8.00 Earth Cover = 15.00 Bar cover = 1.00) ft. ft. in in in	Project: Job #: Sheet: By: Chk By:	Standard Vault 6ff span HS-25 2009.015.019 KMK 	
<u>One Way</u> Span = 6.50				•
Dead Loads: Soil = 1.80 Concrete ≓ 0.10	ksf			
Additional Uniform Dead Load = 0.001	sf			
Total (wdl) = 1.901				
2-Way slab fac. (Distributed) = 1.00 Mdi=wdi l ² /8 * (2-way slab factor) = 10.03 k		5.1)		
DLA = 918.5	5 sf			
WII = 0.041				
Mll=wll l ² / 8 * (2-way sleb factor) = 0.23 k $Mu = \gamma [\beta_{(L+D)} * Mll + \beta_D * Mdl] = 13.54 k$				
$MI = A[b(\Gamma + I), MII + bD, MII] = -12.044$	ab-11			
d = 6.69	in			
Req. Bar Size and Spacing			····	
Short Span: As = 0.61 in.	sq/ft. Use #5	@	6.0 in	
Distribution Steel=.As/Span^.5= 0.24 in.	sq/ft. Use #5	@	45.0 in	
	· · · · · · · · · · · · · · · · · · ·		12.0	
$\rho = As / b^* d = 0.00764$	1601			
$\rho \star n = 0.0550^{\circ}$				
Flexure Check:	. 1			
e = AsFy / 0.85fcb ≕ 0.722 ≬Mn = ≬*As*Fy*(d-(a/2)) ≕ 17.47 k	tip-ft OK			
Cracking Check:	up it wit			
$k = \sqrt{(2pn + pn^2)} - pn = 0.2B$				
j = 1 - (k/3) = 0.90 M = MdI + MII = 10.26 k				
M = Mdi + Mii = 10,26 k fs = M / Asjd = 33,12				
do ⇒ 1.313	in			
A = 2 * dc * Spacing = 15.8 s Z ≈ ís ³ √ (dc * A) = 91 kíp				
Z ≍ fs ³ √ (dc * A) = 91 klp. <u>Shear Check:</u>	s/in OK			
$Vu@d = \gamma[\beta LL^*Wl] + \beta DL^*Wdl]^*$				
[(span/2) - d] = 6.91 ki				
(AASHTO 8-49)	ps/rt UK			
Check minimum reinforcement requirements per A				
Note: Minimum As shall be at least 1/8 sq. in./ft (A				
<u>6Mn ≥ 1.</u> Mcr = 5.66 kip				
1.2 Mcr = 6.79 klp				

ENGINEERS, AROMITECTS, & LAND SURVEYORG 184 Court Street Binghamton, NY 13901 (607)231-6600 Fax(607)231-6650 COVER SLAB DESIGN UNIFORM LIVE LOAD MIN. FILL ASTM C890 Length (I.D.) = 18	3.00 ft.	Project: Job #; Sheet: By: Chk By:	Standard Vault (6ft span HS-25) 2009.016.019 (25 KMK -51.0	
Well Thickness = 6 Slab Thickness = 8 Earth Cover = 10	000 ft. 000 lm 000 in 0.00 ft. 000 ln			
Span = 6 Dead Loads: Soil = 1. Concrete = 0. Additional Uniform Dead Load = 0.	Way Slab 1.50 ft. 20 ksf 10 ksf 00 ksf 30 ksf			
Mdl≖wdl I ² / 8 * (2-way slab factor) ≕ 6.8 DLA ≕ 46 Wil ≍ 0. Mil≖wli I ² / 8 * (2-way slab factor) ≕ 0.4	1.000 (AASHTO 3.24.6. 37 kip-ft 1.37 sf .09 ksf 16 kip-ft 92 kip-ft	1)		
d = 6 Req. Bar Size and Spacing	i.69 in			
Short Span: As = 0.61 Distribution Steel=.As/Span^.5= 0.24	······································	@ @	6.0 In	
$\phi Mn = \phi^* As^* Fy^* (d \cdot (a/2)) = 17.$ $Cracking Check:$ $k = \sqrt{(2\rho n + \rho n^2) - \rho n} = 10$ $j = 1 \cdot (k/3) = (10)$ $M = MdI + MII = 7.3$ $fs = M / As j d = 23$ $dc = 1.$ $A = 2 * dc * Spacing = 15$ $Z = fs^3 \sqrt{(dc * A)} = 65$ $Shear Check:$ $Vu@ d = \gamma [\beta LL^* WII + \beta DL^* WdI] *$ $[(span/2) \cdot d] = 5.0$	5501397 722 in 47 kip-ft OK 0.281 0.906 32 kip-ft 0.63 ksi OK .313 in .8 sq.in i kips/in OK		(2.0	
Check minimum reinforcement requirements p Note: Minimum As shall be at least 1/8 sq. in./	per AASHTO 8.17.1 /ft (AASHTO 8.20.1) <u>≥ 1.2⁴Mor</u> kip-ft			





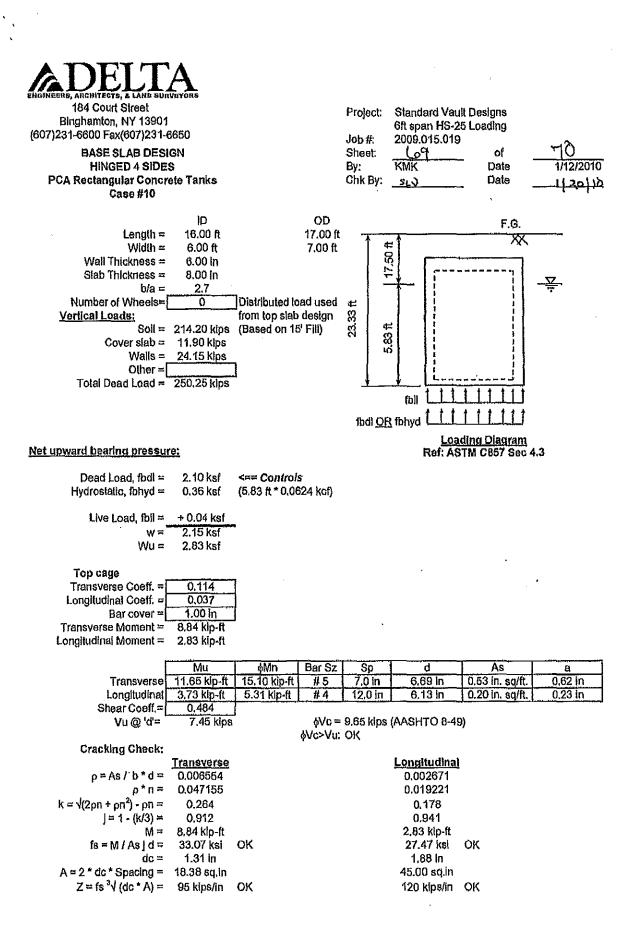


Monolithic Base Section Design Continued:

Check minimum reinforcement requirements (cont.)

Vertical

Project:	Standard Vault De		
	6ft span HS-25 Lo	ading	
Job #:	2009.015.019		
Sheet:	68	of	70
By:	KMK	Date	1/12/2010
Chk By:	510	Date	1/20/10



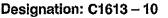


Project:	Slandard Vault D	esigns	
	6ft span HS-25 L	oading	
Job#:	2009.015.019	·	
Sheet:	JD.	of	70
By:	КМК	Date	1/12/2010
Chk By:	5LV	Date	

Base Slab Design Continued:

OR

<u>As(prov.) ≥ (1+1/3)*As(reg'd)</u> C= 5.21 As(reg)= 0.14 |n. sq/tt. 1+1/3 As= 0.18 |n. sq/tt. OK



Standard Specification for Precast Concrete Grease Interceptor Tanks¹

This standard is issued under the fixed designation C1613; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (e) indicates an editorial change since the last rovision or reapproval.

1. Scope

1.1 This specification covers design requirements, manufacturing practices, and performance requirements for monolithic or sectional precast concrete grease interceptor tanks.

1.2 This specification describes precast concrete tanks installed to separate fats, oils, grease, soap scum, and other typical kitchen wastes associated with the food service industry.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards;²

- A82/A82M Specification for Steel Wire, Plain, for Concrete Reinforcement
- A184/A184M Specification for Welded Deformed Steel Bar Mats for Concrete Reinforcement
- A185/A185M Specification for Steel Welded Wire Reinforcement, Plain, for Concrete
- A496/A496M Specification for Steel Wire, Deformed, for Concrete Reinforcement
- A497/A497M Specification for Steel Welded Wire Reinforcement, Deformed, for Concrete
- A615/A615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

A706/A706M Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement

C33 Specification for Concrete Aggregates

- C94/C94M Specification for Ready-Mixed Concrete
- C125 Terminology Relating to Concrete and Concrete Aggregates
- C150 Specification for Portland Cement
- C260 Specification for Air-Entraining Admixtures for Concrete
- C330 Specification for Lightweight Aggregates for Structural Concrete
- C494/C494M Specification for Chemical Admixtures for Concrete
- C595 Specification for Blended Hydraulic Cements
- C618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
- C685/C685M Specification for Concrete Made by Volumetric Batching and Continuous Mixing
- C890 Practice for Minimum Structural Design Loading for Monolithic or Sectional Precast Concrete Water and Wastewater Structures
- C923 Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes, and Laterals
- C990 Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
- C1116 Specification for Fiber-Reinforced Concrete and Shotcrete
- C1602/C1602M Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete

2.2 ACI Standard:³

- ACI 318 Building Code Requirements for Reinforced Concrete
- 2.3 IAPMO Documents:4

Standard Specifications for Highway Bridges

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¹ This specification is under the jurisdiction of ASTM Committee C27 on Precast Concrete Products and is the direct responsibility of Subcommittee C27.30 on Water and Wastewater Containers.

Current edition approved Jan. 1, 2010. Published January 2010. Originally approved in 2006. Last previous edition approved in 2009 as C1613-09. DOI: 10.1520/C1613-10.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

C39/C39M Test Method for Compressive Strength of Cylindrical Concrete Specimens

Uniform Plumbing Code

IAPMO PS-80 Grease Interceptors and Clarifiers

^{2.4} AASHTO Standard:⁵

³ Available from American Concrete Institute (ACI), P.O. Box 9094, Farmington Hills, MI 48333-9094, http://www.concrete.org.

⁴ Available from International Association of Plumbing and Mechanical Officials (IAPMO), 5001 B, Philadelphia St., Ontario, CA 91761.

⁵ Available from American Association of State Highway and Transportation Officials (AASHTO), 444 N. Capitol St., NW, Suite 249, Washington, DC 20001, http://www.transportation.org.

3. Terminology

3.1 For definitions of terms relating to concrete, see Terminology C125.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 access opening, n—a hole in the top slab used to gain access to the inside of the tank for the purpose of cleaning and removing grease, floating scum and sludge without a person actually having to enter the tank.

3.2.2 air scum volume, n—the number of cubic inches (centimeters) in the space between the liquid surface and the underside of the top slab.

3.2.3 *baffle*, n—a device, such as a sanitary tee or other deflector, used to direct the flow of influent down below the separated layer and prevent floating layer of fats, oils, or grease from exiting the tank through the outlet.

3.2.4 grease interceptor capacity, n—the volume of liquid the tank is designed to hold.

3.2.5 grease interceptor tank system, n—a single tank or series of tanks in which wastes from a kitchen or food service establishment containing no sanitary discharges from toilets, urinals and other similar fixtures are received and retained, and from which the liquid effluent, which is comparatively free from fats, oils, greases and settleable and/or floating solids, is then discharged to a public sewer, septic or other approved treatment system.

3.2.6 *inspection opening*, *n*—a hole in the top slab used for the purpose of observing conditions inside the tank.

3.2.7 *joint*, *n*—a physical separation where two pieces of precast concrete are in contact.

3.2.8 non-sealed joint, n-a joint where sealant is not used but where a machined fit will minimize the movement of liquid from one side of a precast concrete wall to the opposite side.

3.2.9 owner, n—is by definition end user, customer, or purchaser.

3.2.10 sealed joint, n—a joint that is sealed to prevent liquid passing from one side of a precast concrete wall to the opposite side.

3.2.11 *tank dividing wall, n*—a partition across the width of the tank that extends partially between the top and bottom intended to deflect influent downward and increase the length of the flow path of the liquid as it travels through the tank.

4. Ordering Information

4.1 The purchaser shall include the following information in bidding documents and on the purchase order, as applicable to the units being ordered:

4.1.1 Reference to this specification, and date of issue.

4.1.2 Quantity, that is, number of units ordered.

4.1.3 Capacity of tank in gallons or litres.

4.1.4 Special cement requirements including moderate sulfate-resisting cement, Specification C150 Type II, or highly sulfate-resisting cement, Specification C150, Type V. If the purchaser does not stipulate, the manufacturer shall use any cement meeting the requirements of Specification C150 or C595 (Type IS or Type IP only).

4.1.5 Acceptance will be based on a review of the calculations or on proof tests. 4.1.6 Design requirements such as depth of earth cover, live load applied at the surface, and ground water level.

4.1.7 Testing for water leakage shall not be required at the job site unless specifically required by the owner at the time of ordering.

4.1.8 Manufacturer is permitted to require testing at the job site prior to backfill in accordance with section 9.1.2.

5. Materials and Manufacture

5.1 Cement—Portland cement shall conform to the requirements of Specification C150 or shall be portland blast-furnace slag cement (Type IS) or portland-pozzolan cement (Type IP) conforming to the requirements of Specification C595.

5.2 Aggregates—Aggregates shall conform to Specification C33 and lightweight aggregates shall conform to Specification C330, except that the requirements for grading shall not apply.

5.3 Water—Water used in mixing concrete shall meet the requirements of Specification C1602/C1602M.

5.4 Admixtures—Admixtures, when used, shall conform to Specification C494/C494M, Specification C618, or Specification C260 and shall not be detrimental to other products used in the concrete.

5.5 Steel Reinforcement—Steel reinforcement shall conform to Specification A82/A82M or A496/A496M for wire; Specification A185/A185M or A497/A497M for wire fabric; or Specification A184/A184M, A615/A615M, or A706/A706M for bars.

5.5.1 Locating Reinforcement-Reinforcement shall be placed in the forms as required by the design.

5.5.2 Holding Reinforcement in Position During Pouring Placement—Reinforcement must be securely tied in place to maintain position during concrete placing operations. Chairs, bolsters, braces, and spacers in contact with forms shall have a corrosion-resistant surface.

5.6 Concrete Mixtures—The aggregates, cement, and water shall be proportioned and mixed to produce a homogeneous concrete meeting the requirements of this specification, and in accordance with Specification C94/C94M or Specification C685/C685M.

5.7 Forms—The forms used in manufacture shall be sufficiently rigid and accurate to maintain the dimensions of the grease interceptor tank within the stated tolerances. All casting surfaces shall be of smooth nonporous material. Form releasing agents used shall not be injurious to the concrete.

5.8 Concrete Placement—Concrete shall be placed in the forms and consolidated such that all reinforcement steel and fixtures are embedded without segregation of materials or voids in the concrete.

5.9 *Curing*—The precast concrete sections shall be cured by any method or combination of methods that will develop the specified compressive strength at 28 days or less.

5.10 Concrete Quality—The quality of the concrete shall be in accordance with the chapter on concrete quality in ACI 318, except for frequency of tests, which shall be specified by the purchaser. Concrete compressive strength tests shall be conducted in accordance with Test Method C39/C39M.

5.11 *Fibers*—Polypropylene or polyolefin fibers are only permitted as a secondary reinforcing material, at the manufacturer's option, in precast concrete grease interceptor tanks. For

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the purposes of this standard, secondary reinforcing material is only used to resist temperature and shrinkage effects. Only Type III conforming to the requirements of Specification C1116 shall be accepted.

5.12 *Pipe Connections*—Pipe-to-tank connections shall employ flexible connectors conforming to the requirements of Specification C923. Materials for the connectors shall have demonstrated resistance to the effects of fats, oils, grease, and fluid temperatures of at least 160°F (70°C).

5.13 *Sealants*—Flexible sealants employed in the manufacture or installation of tanks shall conform to Specification C990, Rigid (mortar) sealing of tank sections is not permitted.

6. Structural Design Requirements

6.1 Structural design of grease interceptor tanks shall be by calculation or by performance.

6.1.1 Design by calculation shall be completed using the Strength Design Method (ultimate strength theory) or the Alternate Design Method (working stress theory) outlined in ACI 318.

6.1.2 Design by performance requires the manufacturer to demonstrate that failure will not occur by physically applying loads to the product. The load applied shall be 2.2 times the design live load or 1.5 times the design dead load, whichever is greater. Such testing shall be witnessed and certified by a registered professional engineer.

NOTE 1—When synthetic fibers are used to replace some or all of the secondary steel reinforcement in the grease interceptor, equivalent performance criteria can be found in section 5.4 of IAPMO PS-80.

6.1.3 Tanks shall be designed so that they will not collapse or rupture when subjected to anticipated earth and hydrostatic pressures when the tanks are either full or empty.

6.1.4 At a minimum, loads from Practice C890 designation A-16 (AASHTO HS20-44) shall be used for design.

6.1.5 The live loads imposed at lifting points shall be considered in the design of the grease interceptor tank.

6.1.6 Inserts embedded in the concrete (including embedded lifting devices) shall be designed and used according to all federal, state, and local regulations.

Nore 3-Lift inserts are typically manufactured with an integral factor of safety of 4, which is already accounted for in their rated load.

6.2 Concrete Strength—The minimum compressive strength (f'c) for designs shall be 4000 psi (28 MPa) at 28 days of age.

6.3 *Reinforcing Steel Placement*—The concrete cover for reinforcing bars, mats, or fabric shall not be less than 1 in. (25 mm).

6.4 Openings—The structural design shall take into consideration the number, placement, and size of all openings.

6.5 Lift Equipment—All equipment used to handle the precast concrete tank shall be designed and used according to all federal, state, and local regulations.

7. Physical Design Requirements

7.1 Capacity—Sizes are generally specified by local regulations and they shall supersede the following requirements. When local regulations are not available, grease interceptor capacity may be determined by use of one of the sizing criteria provided in the Appendix.

7.2 *Shape*—Grease interceptor shapes are generally specified by local regulations and they shall supersede the following requirements.

7.2.1 The air scum volume above the liquid shall be at least 12.5 % of the volume of liquid but not less than 9 in. (230 mm) high for entire surface above liquid.

7.2.2 Minimum liquid depth shall be 30 in. (760 mm) unless otherwise approved by local regulations or the authority having jurisdiction.

7.2.3 Maximum liquid depth shall be 72 in. (1800 mm) unless otherwise approved or required by local regulations, the authority having jurisdiction, or the design engineer.

7.2.4 Tank length shall be greater that the width.

7,3 Compartments:

7.3.1 Grease interceptor tank systems shall include single and multi-compartment units unless otherwise approved by local codes or jurisdiction. In multi-compartment tanks the dividing walls shall be monolithically cast or placed secondarily utilizing a non-sealed joint with the tank body, or any combination thereof.

7.3.2 Multiple units installed in series are acceptable.

7.3.3 The transfer port between compartments shall be sized to maintain a low velocity as liquid moves between compartments. A minimum of 50 in.² (320 cm^2) shall be used where local codes do not specify otherwise.

7.3.4 The transfer port between compartments shall be in the middle 25% of the distance from the bottom of the tank to the water line.

7.3.5 No tee, outlet filter unit, or tank-dividing wall shall extend to the interior roof without providing for venting. The cross-sectional area of a vent shall be at least equivalent to a 4 in. (100 mm) diameter pipe. Poured-in-place inlet and/or outlet baffles are not permitted,

7.4 Inlet and Outlet Pipes;

7.4.1 The inlet pipe shall be no less than 4 in. (100 mm) in diameter.

7.4.2 The difference between the invert of the inlet pipe and the invert of the outlet pipe shall be a minimum of 2 in. (50 mm) and a maximum of 4 in. (100 mm).

7.5 Baffles and Outlet Devices:

7.5.1 Baffles or tees shall be placed at the inlet pipe. Baffles, tees or outlet filters shall be placed at the outlet pipe.

7.5.2 Baffles, tees or outlet filters shall be made of noncorrosive materials and be permanently connected with noncorrosive fasteners to either the inside of the tank or the outlet pipe.

7.5.3 The inlet baffle or tee shall be submerged to a depth located in the middle 25 % of the distance from the bottom of the tank to the water line and at least 5 in. (125 mm) above the liquid level.

7.5.4 The outlet baffle, tee or filter shall be submerged to a depth 6 in. (150 mm) to 12 in. (300 mm) above the tank floor. It shall extend a minimum of 5 in. (125 mm) above the liquid level.

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7.5.5 Outlet filter, when used, shall be maintained in accordance with manufacturer's recommendations or requirements of regulating agencies, or both.

7.5.5.1 Outlet filters, when used, shall be sized using the estimated daily sewage flow through the tank and the rated capacity of the filter, per the filter manufacturer's specifications.

7,5.5.2 When used, the manufacturer of the outlet filter must specify suitability for grease, oil, scum and solids removal for this type of waste.

7.5.5.3 When used, the minimum required filtration surface of an outlet filter shall be based upon the estimated daily waste water volume from the kitchen or food service establishment and the recommendations of the unit manufacturer or regulating agencies, or both.

7.6 Openings in Top Slab:

7.6.1 All access openings and inspection openings shall be brought to grade using risers or other assemblies.

7.6.2 An access opening shall be located over the inlet baffle or tee and the outlet baffle or tee.

7.6.3 An access opening or openings 20 in. or greater shall be provided to permit pumping of all compartments and for each 10-ft increment of tank length for tanks longer than 20 ft.

7.6.4 An access opening or inspection opening located over the tank-dividing wall shall not be prohibited.

7.6.5 All access opening covers and inspection opening covers shall have a permanent means to permit authorized access. Handles, when used, shall be made of corrosion-resistant material and be capable of supporting the weight of the cover.

7.6.6 Handles are not required when the access opening cover sits on top of the slab. The cover must be prevented from moving laterally if sitting on top of the slab.

7.6.7 Each access opening and inspection opening shall be provided with a cover. The cover shall be provided with a means to prevent unauthorized entrance.

7.6.8 All openings, joints, risers, and covers shall be watertight.

8. Quality Control and Sampling

8.1 The manufacturer shall certify that the product meets three criteria: (1) watertightness, (2) physical dimensions, and (3) strength of grease interceptor tank.

8.2 Installation shall be in accordance with manufacturer's instructions.

9. Watertightness Test Methods

9.1 Testing for watertightness shall be performed using either vacuum testing or hydrostatic testing.

9.1.1 Vacuum Testing—Seal the empty tank and apply a vacuum to 4 in. (100 mm) of mercury. Hold the vacuum for 5 minutes. During this initial 5 minute period, the vacuum shall not drop more than $\frac{1}{2}$ in. (13 mm) of mercury, which allows for a pressure equalization loss from equipment seating, and so forth. If the vacuum drops, it shall be brought back up to 4 in. (100 mm) of mercury and held for a further 5 minutes with no vacuum loss. If the tank fails the test, it shall be repaired and retested.

9.1.2 Hydrostatic Testing—Seal the tank, fill with water to its operational level, and let stand for 8 to 10 h. If there is a measurable drop in the water surface elevation, refill the tank and let stand for another 8 to 10 h. There shall be no further measurable drop in the water surface elevation. Tanks shall not be rejected for damp spots on the exterior concrete surface. If water is dripping in a steady stream, the tank shall be repaired and retested.

10. Dimensions and Permissible Variations

10.1 *Dimensional Tolerances*—The length, width, height, or diameter measurements of the grease interceptor tank when measured on the inside surface shall not deviate from the design dimensions more than the following:

Dimension	Tolerance
0 to less than 5 ft (0 to 1.5 m)	±14 ln.(±6 mm)
5 to less than 10 ft (1.5 to 3.0 m)	±%/ kn (±10 mm)
10 to less than 20 ft (3.0 to 6.1 m)	±1⁄2 ln. (±13 mm)
20 (t (6.1 m) and over	±% in (±10 mm)

10.2 Squareness Tolerance—The inside of the rectangular precast concrete component shall be square as determined by diagonal measurements. The difference between such measurements shall not exceed:

Measured Length	Allowance Difference
0 to less than 5 ft (0 to 1.5 m)	±1/2 in. (±13 mm)
5 to less than 10 ft (1.5 to 3.0 m)	±34 in. (±19 mm)
10 ft to less than 20 ft (3.0 m to 6.1 m)	±1 in. (±25 mm)
20 (t (6.1 m) and over	±1½ ln. (±98 mm)

10.3 Joint Surfaces—The joint tolerances for sealed joint gap between two mating joint surfaces shall not exceed $\frac{3}{10}$ in. (10 mm) before the joint sealant is applied.

10.4 Reinforcement Location—With reference to thickness of wall or slab, reinforcement shall be within $\pm \frac{1}{4}$ in. (6 mm) of the design location, but in no case shall the cover be less than 1 in. (25 mm). The variation in reinforcement spacing shall not be more than one tenth of the designed bar spacing nor exceed $\frac{1}{2}$ in. (38 mm). The total number of bars shall not be less than that computed using the design spacing.

11. Repairs

11.1 Repairs of precast concrete grease interceptors, when required shall be performed by the manufacturer in a manuer ensuring that the repaired grease interceptor tank will conform to the requirements of this specification.

12. Rejection

12.1 Precast concrete grease interceptor tanks or sections of grease interceptor tanks shall be subject to rejection because of failure to conform after repairs to any of the requirements contained in this specification.

13. Product Marking

13.1 Each grease interceptor tank shall be clearly marked within 2 ft (6 m) of the inlet to the tank by indentation or other approved means with (1) date manufactured, (2) name or trademark of the manufacturer, (3) tank capacity, (4) minimum and maximum amount of earth cover in feet (or meters), unless required otherwise by local codes.

13.2 Each grease interceptor tank cover shall be clearly marked by indentation, or other approved means with (1) date

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of manufacture, (2) name or trademark of the manufacturer, and (3) indication of external loads for which the grease interceptor tank is designed to resist, including the minimum and maximum amount of earth cover in feet (or meters) above top slab and surface load from Practice C890 (A-16), unless required otherwise by local codes.

13.2.1 When all the requirements of this specification are met, the product shall be so stamped.

Note 4—Where an access opening or an inspection opening has a dimension greater than 8 in. (200 mm) a confined space warning label should be placed in a prominent place.

14. Keywords

14.1 fats, oils and greases; grease interceptor tank; liquid kitchen waste; precast concrete; wastewater pretreatment

APPENDIX

(Nonmandatory Information)

X1. OPTIONAL PRECAST CONCRETE GREASE INTERCEPTOR SIZING CRITERIA

X1.1 The grease interceptor tank may be sized in accordance with Appendix H of the 2003 Uniform Plumbing Code or Chapter 10 of the 2006 Uniform Plumbing Code.

X1.2 The grease interceptor tank may be sized for an existing facility by using the actual average daily-metered water-use figures from the facility multiplied by a safety factor

of 1.S. A minimum retention time of 30 minutes shall be used to size the grease interceptor tank.

X1.3 The grease interceptor tank may be sized by using the peak design flow rates for all fixtures leading to the grease interceptor. A minimum retention time of 30 minutes shall be used to size the grease interceptor tank.

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APPLICANT NAME				
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CITY	STATE	ZIPCODE	FAX NUMBER (Include Area Code)	
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Nature of Petition: Check only one box. A component is a preassembled unit of different materials or products that will be incorporated into a building.

Code Under Which Approval is Sought: Check only one box. If there are requirements in 2 or more codes for the approval sought, an additional petition and fee must be submitted.

Name: Provide the name of the material, product, or method/manner of construction or installation.

Other Identification: Provide the model numbers.

Description: Provide a description of the material, product, method or component.

Intended Use: Give a brief description of how the product is incorporated into a building or structure and its purpose.

Laboratory Test and/or Evaluation By: List all tests performed and provide copies as listed above.

Pilot Service Experience and Conditions: Provide report of finding as listed above.

Restrictions for Use: Identify any restrictions or conditions of use.

Other: Any documentation or description necessary to demonstrate why this application should be approved.

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APPROVAL REQUESTE	D	
NATURE OF PETITION (Limited to	o One Hem Per Polillon)	
Material	✓Product	Method/Manner of Construction or Installation
	OR METHOD/MANNER OF CONSTRUCTION OR INSTAL	LIATION
Heat Wave (Liquid to	Liquid Heat Recovery Unit)	
OTHER IDENTIFICATION (Model W2-80-4-1	Number)	
VVZ-0U- 4 -1		
DESCRIPTION (Use Additional Sh	eels if Necessary)	·
See attachment	······································	
INTENDED USE (Use Additional S	neols If Necessary)	
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DATA SUBMITTED		
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STEVE ARWOOD DIRECTOR

STATE PLUMBING BOARD

Upper Peninsula State Fairgrounds 2401 12th Avenue North Escanaba, Michigan 49829

> MINUTES July 16, 2014

> > <u>MEMBERS</u> ABSEN

Ms. Dana DeBruyn

Mr. Aaron Fedewa

8:15 a.m. Eastern Standard Time

MEMBERS PRESENT

Mr. Daniel Nixon, Vice Chairperson Mr. Curt McNitt Mr. Anthony D'Ascenzo Mr. Steve Busch Mr. Walter Maner

DEPARTMENT PERSONNEL ATTENDING

Mr. Joseph Madziar, Chief, Plumbing Division

OTHERS IN ATTENDANCE

Mr. Tyler Jouppe, Journey Applicant Mr. Myril Brix III., Master Applicant Mr. Doug Guldan, Waste Water Heat Transfer Systems, LLC Mr. Tim Laske, B-Dry Systems of Michigan Mr. Mike Henery, B-Dry Systems of Michigan

1. CALL TO ORDER AND DETERMINATION OF QUORUM

Vice Chairperson Nixon called the meeting to order at 8:15 a.m. A quorum was present at that time.

2. NOMINATION AND ELECTION OF CHAIRPERSON

Board Member Maner moved to nominate Anthony D'Ascenzo as Chairperson. Board Member McNitt seconded the motion. MOTION CARRIED UNANIMOUSLY.

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3. <u>APPROVAL OF AGENDA</u>

Board Member Maner moved to approve the agenda for the July 16, 2014 State Plumbing Board meeting. Chairperson D'Ascenzo seconded the motion. MOTION CARRIED.

4. APPROVAL OF MINUTES

Board Member McNitt moved to approve the board minutes from the June 3, 2014 meeting. Board Member Busch seconded the motion. MOTION CARRIED.

5. APPROVAL OF EXAMINATION MINUTES

Board Member Maner moved to approve the examination minutes of the Journey Plumber and Master Plumber Examinations held on June 4, 2014 and the Plumbing Contractor Examination held on June 25, 2014. Board Member McNitt seconded the motion. MOTION CARRIED.

6. APPLICANTS APPEARING BEFORE THE BOARD

A. <u>Mr. Tyler W. Jouppe</u>, Journey Applicant, appeared before the Board requesting permission to take the Journey Plumber Examination. Mr. Jouppe provided documentation verifying his out-of-state license was obtained through substantially the same requirements as the State of Michigan.

After a discussion with Mr. Jouppe regarding his qualifications to take the Journey Plumber Examination, Board Member Maner moved to allow Mr. Jouppe to take the Journey Plumber Examination. Board Member McNitt seconded the motion. MOTION CARRIED

Mr. Myril A. Brix III., Master Applicant, appeared before the Board requesting permission to take the Master Plumber Examination. Mr. Brix provided documentation verifying his out-of-state license was obtained through substantially the same requirements as the State of Michigan.

After a discussion with Mr. Brix regarding his qualifications to take the Master Plumber Examination, Chairperson D'Ascenzo moved to allow Mr. Brix to take the Master Plumber Examination. Board Member McNitt seconded the motion. MOTION CARRIED.

7. <u>NEW PRODUCTS</u>

A. Waste Water Heat Transfer Systems, LLC, Heat Wave, BCCP-14-006

Mr. Doug Guldan presented the Board a product approval request from Waste Water Heat Transfer Systems, LLC for Heat Wave, Model W2-80-4-1.

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> Following a review and discussion with Mr. Guldan, Chairperson D'Ascenzo moved to forward the product to the Commission for approval for nonpotable water applications. Once the product adheres to NSF 61, the applicant may reapply for product approval for potable water applications. Board Member Busch seconded the motion. **MOTION CARRIED**.

B. B-Dry Systems of Michigan, Pipe & Gravel System, BCCP-14-007

Mr. Tim Laske and Mr. Mike Henery presented the Board a product approval request from B-Dry Systems of Michigan for a Bipe & Gravel System.

Following a review and discussion with Mr Laske and Mr Henery, Chairperson D'Ascenzo moved to forward the product to the Commission to approval. Board Member McNitt seconded the motion MOTION CARRIED.

C. MIFAB, Inc., Floor Drain Trap Seal Protection Devices, BCCP=14-009

Mr. Madziar presented the Board a product approval request from MIFAB, Inc. for Floor Drain Trap Seal Protection Devices, Models MI-GARD-2, MI-GARD-3, MI-GARD-35, AND MI-GARD-4

Following a review and discussion, Board Member McNitt moved to forward the product to the Commission for approval. Board Member Maner seconded the motion. MOTION CARRIED.

8. CHIEF'S REPORT

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Mr. Madziar provided information on the following issues:

Prior Chalippeison David Jones was not reappointed to the Board. Mr. Madziar expressed his appreciation for Mr. Jones' many years of service as a board member.

- B. Mr. Aaron Fedewa was appointed to the Board and will represent licensed plumbing contractors who hold a master's license.
- C. The 2012 Plumbing Code Update Course is now available online through the MPMCA.
- **D.** The September examinations will be based on the 2012 Michigan Plumbing Code.
- E. Committee work continues on the 2012 Michigan Residential Code.

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- F. The Plumbing Division currently has one inspector, Walt Reynolds, off on medical leave. The Division has been approved to hire a temporary inspector.
- G. Mr. Madziar will be attending the NSF Plastics Committee meeting on July 23, 2014 in Ann Arbor.

9. LEGISLATIVE UPDATE

None

10. UNFINISHED BUSINESS

None

11. NEW BUSINESS

The Board discussed Section 27 (2) and (3) of the State Plumbing Act 733 of 2002.

12. PUBLIC COMMENT

None

13. <u>NEXT MEETING</u>

September 16, 2014

14. ADJOURNMENT

Board Member Busch moved to adjourn the meeting at 9:34 a.m. Eastern Standard Time. Board Member Nixon seconded the motion. MOTION CARRIED.

Approved:

Date:

Chairperson Anthony D'Ascenzo



OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of NSF/ANSI Standard 61 - Drinking Water System Components - Health Effects

This is the Official Listing recorded on June 3, 2016.

Waste Water Heat Transfer Systems, LLC P.O. Box 70 Sterling Heights, MI 48311 586-531-7690

Facility: Sterling Heights, MI

	Mechanical Devices		
		Water Contact	Water Contact
Trade Designation [1] Heat Exchanger	Size	Temp	Material
Heat Wave Model W2-80-4-1	[2]	C. HOT	CU

[1] Copper tube (Alloy C12200) is Certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above. Drinking water supplies that are less than pH 6.5 may require corrosion control to limit leaching of copper into the drinking water.

[2] Certified for a minimum daily flow rate of 5450 L/day.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International. 1 of 1

C0077531

789 N. Dixboro Road, Ann Arbor, Michigan 48105-9723 USA 1-800-NSF-MARK / 734-769-8010 www.nsf.org

230

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Waste Water Heat Transfer Systems, LLC

Sterling Heights, MI

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS. PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE AUTHORIZED TO BEAR THE NSF MARK.





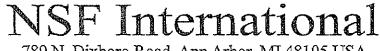


Certification Program Accredited by the Standards Council of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

June 3, 2016 Certificate# C0077531 - 03

David Purkiss General Manager, Plumbing



789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Waste Water Heat Transfer Systems, LLC Facility: Sterling Heights, MI

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS. PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE AUTHORIZED TO BEAR THE NSF MARK.





saus Certification Program Accredited by the American National Standards Institute



Certification Program Accredited by the Standards Council of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

June 3, 2016 Certificate# C0292086 - 01

David Purkiss General Manager, Plumbing

Madziar, Joseph (LARA)

From:	Bruno Casadei <bcasadei@casadeisteel.com></bcasadei@casadeisteel.com>
Sent:	Saturday, June 04, 2016 12:42 PM
То:	Madziar, Joseph (LARA)
Cc:	Doug Guldan (dguldan@w2hts.com)
Subject:	W2HTS NSF Cert
Attachments:	C0077531 - 061.pdf; Certificate - C0077531.PDF; Certificate - C0292086.pdf

Hi Joe,

I am pleased to inform you that we have passed the NSF pat 61 certification for potable water with our heat transfer unit. I have enclosed the documents from NSF. Doug Guldan and I would like to give you a call on Monday June 6th to discuss what will be required for us to have our product certified as and approved plumbing product. Please let me know when you would have some time to talk preferably after 11:00 am. We look forward to speaking with you.

Sincerely

Bruno Casadei

President Casadei Steel Inc. 40675 Mound Road PO BOX 70 Sterling Heights MI 48311 PH 586-698-2898 FAX 586-698-2871 CELL 586-531-7690



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DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES P.O. BOX 30254 LANSING, MI 48909

CERTIFICATE OF ACCEPTABILITY PRODUCT APPROVAL

1653-PA

Issued by the Michigan State Construction Code Commission in accordance with authority granted under Section 21, 1972 P.A. 230, MCL 125.1521 on the recommendation of the Bureau of Construction Codes, Plumbing Division. This product was reviewed to the 2012 Michigan Plumbing Code.

MANUFACTURER;

Waste Water Heat Transfer Systems, LLC

PRODUCT:

Heat Wave, model W2-80-4-1

MANUFACTURER DESIGNATION:

Waste Water Heat Transfer Systems, LLC 40675 Mound Road, P.O. Box 70 Sterling Heights, MI 48311

CONDITIONS OF USE AND INSTALLATION:

- 1. All requirements of the Michigan Plumbing Code shall be applicable.
- 2. Shall be installed in accordance with manufacturer's installation instructions.
- 3. This approval only allows for the installation of this product in a non-potable water system.
- 4. This approval shall become void if and when the product no longer meets the requirements of the Michigan Plumbing Code or a change in design/designation occurs.

THIS CERTIFICATE SHALL NOT BE USED FOR ADVERTISING PURPOSES.

	By Direction of the Construction Code Commission Irvin J. Poke, AIA, Director A.M.M.M.M. Joseph T. Madziar, Chief, Plumbing Division
Effective Date: October 1, 2014	

Petition Application for Certificate of Acceptability Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes P.O. Box 30255, Lansing, MI 48909 www.michigan.gov/bcc

Application Fee: \$1,000.00 (Each	Approval Requested Re	quires a Separate Applica	ation and Fee)	
Authority: 1972 PA 230		LARA is an equal opportunity employer/program. Auxillary aids, services and other reasonable accommodations		
Penalty: Failure to provide the information ma	ay result in denial of your request.	are available upon request to individuals with disabilities.		
CODE UNDER WHICH APPROVAL IS SOUGHT	(Limited to One Code Per Petition)			
Building (140)	Electrical (115)	Mechar	nical (130)	Plumbing (98)
APPLICANT INFORMATION (Note:	All correspondence will be s	ent to this address)		
NAME OF COMPANY			_	
Huber Engineered Woods, LLC				
APPLICANT NAME				
Ken W. Hix				
ADDRESS TELEPHONE NUMBER (Include Area Code)				
1446 Hwy 334				(706)
CITY	STATE		ZIP CODE	FAX NUMBER (Include Area Code)
Commerce	GA		30530	(706) 336-3164

Instructions for Petition Application for Acceptability

Nature of Petition: Check only one box. A component is a preassembled unit of different materials or products that will be incorporated into a building.

Code Under Which Approval is Sought: Check only one box. If there are requirements in 2 or more codes for the approval sought, an additional petition and fee must be submitted.

Name: Provide the name of the material, product, or method/manner of construction or installation.

Other Identification: Provide the model numbers.

Description: Provide a description of the material, product, method or component.

Intended Use: Give a brief description of how the product is incorporated into a building or structure and its purpose.

Laboratory Test and/or Evaluation By: List all tests performed and provide copies as listed above.

Pilot Service Experience and Conditions: Provide report of finding as listed above.

Restrictions for Use: Identify any restrictions or conditions of use.

Other: Any documentation or description necessary to demonstrate why this application should be approved.

Validation Area

<u>U.S. Postal Service</u> Michigan Dept. of Licensing and Regulatory	Courier Other 7 Michigan Dept.
Affairs	Bureau of Const
Bureau of Construction Codes (Address to appropriate division-Electrical	(Address to ap Division, Mech
Division, Mechanical Division or Plumbing	Division
Division	Please address
Please address Building approvals to Plan	Division)
Review Division)	1st Floor Ottawa
P.O. Box 30255	611 W. Ottawa S
Lansing, MI 48909	Lansing, MI 489

Courier Other Than U.S. Postal Service Michigan Dept. of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building approvals to Plan Review Division) 1st Floor Ottawa Bldg. 611 W. Ottawa St. Lansing, Mi 48933

Traninfo:140 21946642-1 02/23/17 ChkM: 8000083369 Ant: \$1.000.00 10: HUBER ENGINEERED WOODS

140/115/130/98

Agency Use Only

BCC-247 (07/15) Page 1

APPROVAL REQUESTED				
NATURE OF PETITION (Limited to One Item	Per Petition)			
	Product	Method/Manner of Constru-	ction or Installation	
NAME OF MATERIAL, PRODUCT, OR METH	HOD/MANNER OF CONSTRUCTION OR INSTALLATIO	N		
ZIP System Roof and Wall	Sheathing			
OTHER IDENTIFICATION (Model Number)				
DESCRIPTION (Use Additional Sheets If Nec	cessary)		a,	
Oriented strand board (OSI	3) panel laminated with a poly-mo	dified water resistive barrier wit	h a self sealing tape applied	
to the panel joints.				
INTENDED USE (Use Additional Sheets If No	acessary)			
Combined roof sheathing a	nd underlayment (ESR 1473).			
	air barrier, and WRB (ESR 1474).			
DATA SUBMITTED				
DATA SUBINITI ED				
Letter	Reports	Product Sample		
☐Manual	⊡ICC - ES		by Other Agencies	
Standards	BOCA - NES		ons by Model Code Bodies	
Installation Instructions		Laboratory Test	/Evaluation	
Display Catalog				
	□NRB ☑Other			
LABORATORY TEST AND/OR EVALUATION				
International Code Council				
PILOT SERVICE EXPERIENCE AND COND	TIONS (Use Additional Sheets If Necessary)			
Product has Certificate of Acceptability based on 2009 Michigan Building and Residential Codes.				
	theasta If Nanagoogo A			
RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)				
See section 5.0 in attached	ICC-ES evaluation reports.			
SIGNATURE			DATE	
The	W. AX		1 FEO 2 \$17	
*	· · · · ·			

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BCC-247 (07/15) Page 2

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES P.O. BOX 30254 LANSING, MI 48909

CERTIFICATE OF ACCEPTABILITY PRODUCT APPROVAL

1635-BA

Issued by the Michigan State Construction Code Commission in accordance with authority granted under Section 21, 1972 P.A. 230, MCL 125.1521 on the recommendation of the Bureau of Construction Codes, Plan Review Division.

MANUFACTURER:

Huber Engineered Woods, LLC 10925 David Taylor Drive, Suite 300 Charlotte, NC 28262

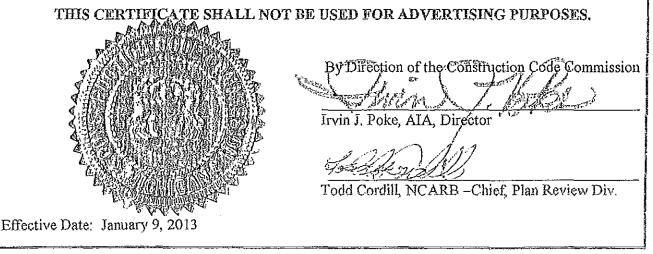
PRODUCT: ZIP System Roof and Wall Sheathing

MANUFACTURER DESIGNATION:

Oriented strand board (OSB) panel laminated with a poly-modified water resistive barrier with a self sealing tape applied to the panel joints identified as ZIP System Roof and Wall Sheathing.

CONDITIONS OF USE AND INSTALLATION:

- 1. This product shall bear identification of the above -manufacturer and designations.
- The approval shall become void if and when the requirements for this product in the 2009 Michigan Building Code and 2009 Michigan Residential Code are amended or new requirements become applicable.
- Condition of use and installation shall be as specified in the International Code Council's (ICC) Evaluation Service Reports ESR-1473 (combined roof sheathing and roof underlayment) and ESR-1474 (combination of wall sheathing, air barrier and WRB).



BCC-978 (Rev. 09/09)



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ESR-1473

Reissued 09/2015 This report is subject to renewal 09/2017.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES SECTION: 06 16 00—SHEATHING DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

ONE RESOURCE SQUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262

EVALUATION SUBJECT:

ZIP SYSTEM[®] AND ZIP SYSTEM+[™] ROOF SHEATHING



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ICC-ES Evaluation Report

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ESR-1473*

www.icc-es.org | (800) 423-6587 | (562) 699-0543

DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC ONE RESOURCE SQUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262 (800) 933-9220 www.huberwood.com

EVALUATION SUBJECT:

ZIP SYSTEM[®] AND ZIP SYSTEM+™ ROOF SHEATHING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 International Building Code[®] (IBC)
- 2015, 2012 and 2009 International Residential Code[®] (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

 $^{\dagger} The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.$

Properties evaluated:

- Structural—wind uplift resistance
- Nonclassified roof covering
- Classified roof covering
- Weather resistance

2.0 USES

ZIP System[®] and ZIP System+[™] roof sheathing panels are used as combination roof sheathing and roof underlayment.

3.0 DESCRIPTION

The ZIP System[®] and ZIP System+[™] roof Sheathing panels are wood structural panels having a laminated facer. The ZIP System+[™] panels are manufactured using a different resin than the Zip System[®] panels. The panels are installed with a proprietary seam tape, which allows the systems to be used as an alternate to the underlayment Reissued September 2015 This report is subject to renewal September 2017.

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required in Chapter 15 of the IBC and Chapter 9 of the IRC. The OSB substrate complies with U.S. DOC PS-2 for wood structural panels and is overlaid on one side with a medium-density, phenol-impregnated, polymer-modified sheet material. The standard-size panels are nominally 4 feet by 8 feet. Oversize panels, wider than 4 feet (1219 mm) or longer than 8 feet (2438 mm), or both, are also produced. The panels are available with either a square-finished-edge profile a tongue-and-groove edge profile or a machined edge profile. The proprietary seam tape is a self-adhering sheet-type membrane consisting of acrylic adhesive laminated to a polyolefin backing, and the face of the tape is labeled with ESR-1473. The tape is 0.012 inch thick (0.30 mm) with a minimum width of 3 inches (76.2 mm), and comes in rolls of varying length.

4.0 INSTALLATION

4.1 General:

Installation of ZIP System[®] and ZIP System+[™] roof sheathing must comply with the applicable code, this report and the manufacturer's published installation instructions. The installation instructions are to be available at the jobsite at all times during installation. The instructions within this report must govern if there are any conflicts between the manufacturer's published instructions and this report.

4.2 Application:

The ZIP System[®] and ZIP System+[™] roof sheathing panels must be installed with the longer dimension perpendicular to the roof framing and fastened to the roof framing in accordance with the applicable code for wood structural panels. The panels must be installed in accordance with the panel span rating as shown on the panels. All corners are to be securely fastened. Tongueand-groove and machined edge panels are designed to provide the correct gap size at the panel edges during installation. Squared-edged panels must be spaced apart a minimum of $\frac{1}{8}$ inch (3.18 mm) at the time of installation. End joints of adjacent panel runs must be staggered. The panel must be installed with the laminated phenolimpregnated polymer-modified sheet material facing to the exterior. All ZIP System[®] and ZIP System+™ roof sheathing seams must be sealed with the Zip System[®] tape. All overlay surfaces must be free of any significant presence of debris, particles or sawdust prior to installation of the ZIP System[®] tape. Overlay surfaces must be void of any free water prior to application of the ZIP System[®] tape. The ZIP System[®] tape edges must be sealed and the tape is to be centered within +/- 1/2 inch (12.7 mm) of all panel edge seam centers. All ZIP System[®] and ZIP System+™

*Revised November 2015

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Page 1 of 2

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roof sheathing surface defects, openings, cracks, etc., that completely penetrate the overlay and substrate, and caused by handling or construction work, must be covered with the ZIP System[®] tape. The ZIP System[®] tape must extend a minimum of 1 inch (25.4 mm) past the panel edge T-joint intersections. The ZIP System[®] tape must be adhered to the ZIP System[®] and ZIP System+TM roof sheathing. Wrinkles in the ZIP System seam tape are acceptable unless they create a leak path to the panel seam.

4.3 Roof Assemblies

4.3.1 Classified Roof Coverings

4.3.1.1 Class A: Underlayment is not required for a minimum $\frac{1}{2}$ -inch thick Zip System+TM roof sheathing with Class A asphalt glass fiber mat shingles.

4.3.1.2 Class B: Underlayment is not required for a minimum 7 /₁₆-inch thick Zip System[®] roof sheathing with Class A asphalt glass fiber mat shingles.

4.3.2 Nonclassified Roof Coverings: The ZIP System[®] and ZIP System+[™] roof sheathing panels are limited to installation on buildings permitted to have nonclassified roof coverings using code-complying asphalt-fiberglass shingles, metal shingles, metal panels, wood shakes, wood shingles, built-up roofing, slate and slate-type shingles, and clay and concrete tile roof coverings. Roof coverings may be applied directly to the taped ZIP System[®] and ZIP System+[™] roof panels unless multi-layer underlayments are required.

4.4 Wind Uplift Resistance:

Wind uplift design loads and ZIP System[®] and ZIP System^{+™} roof wood structural panel allowable uplift resistance shall be determined in accordance with Sections 1609 and 2304.8.2 of the 2015 IBC or 2304.7.2 of the 2012 and 2009 IBC and Section R301.2.1 of the IRC. Roof coverings must be fastened to the sheathing with mechanical fasteners sufficient to resist the design uplift load.

5.0 CONDITIONS OF USE

The ZIP System[®] and ZIP System^{+™} roof sheathing panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- **5.1** This evaluation report and the manufacturer's published installation instructions, when required by the code official, must be submitted at the time of permit application.
- **5.2** The ZIP System[®] and ZIP System+[™] roof sheathing panels must be manufactured, identified and installed in accordance with this report and the manufacturer's published installation instructions.
- 5.3 The ZIP System[®] and ZIP System^{+™} roof sheathing panels are limited to code-approved structural use for

wood structural panels with either a 24/16, 32/16 or 40/20 span rating.

- **5.4** In jurisdictions enforcing the IBC, the roof covering system incorporating the panels is limited to installations in the following construction types:
 - Type III-B and Type V-B
 - Type III-A or Type V-A under the conditions specified in footnote d of IBC Table 601
 - Type III-A or Type V-A under the conditions specified in footnote b of IBC Table 601, for occupancies other than Group F-1, H, M and S-1

In jurisdictions enforcing the IRC, the roof covering system incorporating the panels may be installed on structures constructed in accordance with the IRC.

- 5.5 Enclosed attics and rafter spaces must be ventilated in accordance with the applicable code, except where unvented conditioned attic assemblies are permitted by 2015 and 2012 IRC Section R806.5 or 2009 IRC Section R806.4.
- **5.6** An ice barrier must be provided as required by Section 1507.2.8.2 of the IBC and Section R905.2.7 of the 2015 IRC and Section R905.2.7.1 of the 2012 and 2009 IRC.
- **5.7** Installation is limited to roofs having a slope of 2:12 (16.67% slope) or greater.
- 5.8 ZIP System[®] and ZIP System+™ roof sheathing panels are manufactured by Huber Engineered Woods, LLC, in Crystal Hill, Virginia; Commerce, Georgia; Broken Bow, Oklahoma; and Easton, Maine, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Wood Structural Panel Roof Sheathing Factorylaminated with an Alternative Roof Underlayment (AC266), dated May 2008 (editorially updated October 2015).

7.0 IDENTIFICATION

Each ZIP System[®] and ZIP System+[™] roof sheathing panel covered by this report must bear a label that includes the manufacturer's name (Huber Engineered Woods, LLC) and address; the product name; the evaluation report number (ESR-1473); and the grade, performance category and bond classification.

The panel mill label and span rating, grade, performance category and bond classification label must be visible on the bottom face of panels, opposite the laminated facer.

The ZIP System[®] tape roll is labeled with the product name and the evaluation report number (ESR-1473).



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ESR-1474

Reissued 10/2016 This report is subject to renewal 10/2018.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES SECTION: 06 16 00—SHEATHING **DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION** SECTION: 07 25 00—WATER-RESISTIVE BARRIERS/WEATHER BARRIERS SECTION: 07 27 00—AIR BARRIERS

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC

ONE RESOURCE SOUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262

EVALUATION SUBJECT:

ZIP SYSTEM® WALL SHEATHING



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ICC-ES Evaluation Report

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ESR-1474

Reissued October 2016

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 16 00—Sheathing

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 25 00—Water-resistive Barriers/Weather Barriers Section: 07 27 00—Air Barriers

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC ONE RESOURCE SQUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262 (800) 933-9220 www.huberwood.com

EVALUATION SUBJECT:

ZIP SYSTEM® WALL SHEATHING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 International Building Code[®] (IBC)
- 2015, 2012 and 2009 International Residential Code[®] (IRC)
- 2015, 2012 and 2009 International Energy Conservation Code[®] (IECC)

Properties evaluated:

- Weather resistance
- Air leakage
- 2.0 USES

ZIP System[®] Wall Sheathing panels are used as combination wall sheathing, air barrier, and water-resistive barrier. This report recognizes the use of ZIP System[®] Sheathing, when installed with ZIP System[™] flexible flashing seam tape, in walls of Type V construction (IBC) and dwellings under the IRC, and as an alternate to the water-resistive barrier required in Chapter 14 of the IBC and Chapter 7 of the IRC, and to the air barrier required by Sections R402.4 and C402.5.1 of the 2015 IECC (Sections R402.4 and C402.4.1 of the 2012 IECC; Sections 402.4.1 and 502.4.3 of the 2009 IECC).

This report is subject to renewal October 2018.

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3.0 DESCRIPTION

3.1 Sheathing Panel:

The ZIP System[®] Wall Sheathing panel is an OSB wood structural panel having a laminated exterior facer. The Exposure 1 OSB complies with US DOC PS 2 for wood structural panels. The exterior facer is a medium-density, phenolic-impregnated, polymer-modified sheet material qualifying as a Grade D water-resistive barrier (required by Section 2510.6 of the 2012 and 2009 IBC). The panels are nominally 4 feet wide by 8, 9, 10, 11 or 12 feet long and have a square-finished-edge or machined-edge profile.

When tested in accordance with ASTM E96 (water method), the polymer-modified sheet overlay has a minimum vapor permeance of 12 perms [68.6 X 10^{-11} kg/(Pa-s-m²)]. Equivalent Water Vapor Transmission rate (WVT) of the polymer-modified sheet overlay is 83.4 g/(24h-m²) when tested at 73.4°F (23°C).

The water-resistive barrier and air barrier properties of the ZIP System[®] Wall Sheathing Panels are not affected when the panels are manufactured to comply as facing materials for SIPs in accordance with Section R610.3.2 and Table R610.3.2 of the 2015 IRC (Section R613.3.2 and Table R613.3.2 of the 2012 and 2009 IRC).

3.2 Seam Tape:

The ZIP SystemTM seam tape is a self-adhering membrane tape consisting of acrylic adhesive laminated to a polyolefin backing. The tape is 0.012 inch (0.30 mm) thick with a minimum width of $3^{3}/_{4}$ inches (95.2 mm), and comes in rolls of various lengths.

4.0 INSTALLATION

4.1 General:

Installation of ZIP System[®] Wall Sheathing panels must comply with the applicable code, this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite during installation.

4.2 Application:

4.2.1 General: The ZIP System[®] Wall Sheathing panels must be attached to wall framing in accordance with the applicable code for wood structural panels, and in compliance with their panel span rating. The panels must be installed with the polymer-modified sheet overlay facing the exterior. In accordance with the manufacturer's published installation instructions, it is recommended that the square edges of the panels be installed with a gap

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between adjacent panels and between panels and dissimilar materials. All ZIP System[®] Wall Sheathing panel seams must be sufficiently sealed with ZIP System[™] seam tape. All overlay surfaces must be dry and free of sawdust and dirt prior to application of the ZIP System[™] seam tape. The ZIP System[™] seam tape must extend a minimum of 1 inch (25.4 mm) past the panel edge T-joint intersections and must be centered within ¹/₂ inch (12.7 mm) over the middle of panel seams. The tape must be pressed firmly to adhere to the surfaces and seal the seams. Wrinkles in the ZIP System[™] seam tape are acceptable unless they create a leak path to the panel seam.

4.2.2 Flashing: Flashing complying with the applicable code must be installed at the perimeter of door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies, and similar projections, and at built-in gutters and similar locations where moisture could enter the wall. An adhesive-backed flashing tape recognized in a current ICC-ES evaluation report must be installed to seal all ZIP System® Wall Sheathing flashing joints. Penetration items must be sealed to the panels. The adhesive-backed flashing tape must comply with the ICC-ES Acceptance Criteria for Flexible Flashing Materials (AC148) and must be installed in accordance with the manufacturer's published installation instructions. See Figures 1 through 7 of this report for typical flashing, water-resistive barrier and air barrier assembly installation details.

4.2.3 Air Barrier Assembly: ZIP System[®] Wali Sheathing fastened to maximum 24-inch-on-center (610 mm), wood wali framing, using minimum 6d nails spaced at 6 inches (152 mm) around panel edges and at 12 inches (305 mm) in the field, leaving a 1_{46} -inch (3.18 mm) gap between panels, forms an air barrier assembly when the gaps between panels and the perimeter of penetrations are sealed with ZIP SystemTM seam tape as required by Section 4.2.1. The assembly has demonstrated a maximum air leakage of 0.0072 cfm/ft² [0.037 L/(s·m²)] infiltration and 0.0023 cfm/ft² [0.012 L/(s·m²)] exfiltration at a pressure differential of 1.57 psf (75 Pa) when tested in accordance with ASTM E2357.

5.0 CONDITIONS OF USE

The ZIP System[®] Wall Sheathing panel and tape system described in this report complies with, or is a suitable

alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

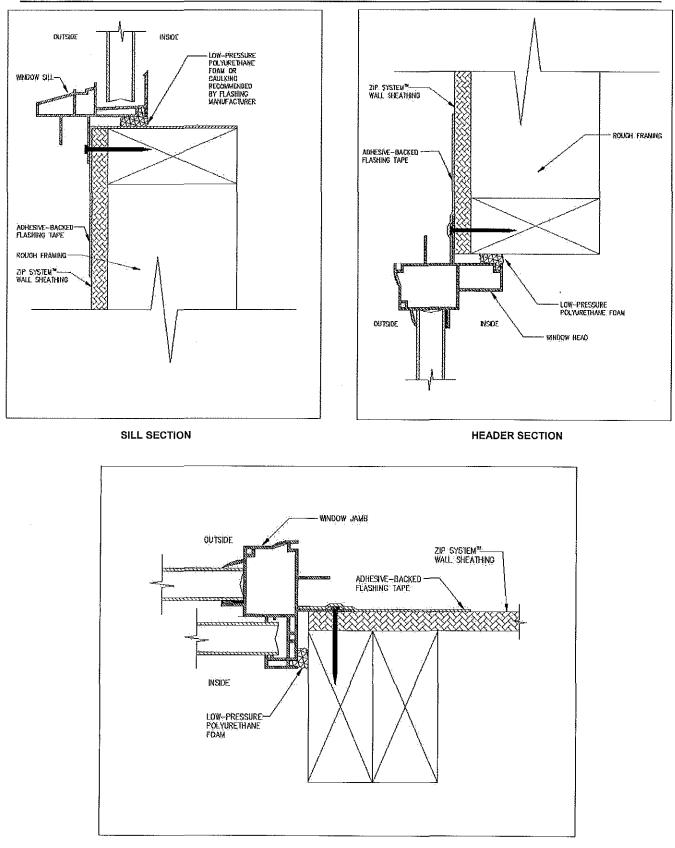
- **5.1** This evaluation report and the manufacturer's published installation instructions, when required by the code official, must be submitted at the time of permit application.
- 5.2 The ZIP System[®] Wall Sheathing panels must be manufactured, identified and installed in accordance with this report and the manufacturer's published installation instructions. In the event of a conflict between the instructions and this report, this report must govern.
- **5.3** The ZIP System[®] Wall Sheathing panels must be covered with a code-complying exterior wall covering, or one that is recognized in a current ICC-ES evaluation report.
- 5.4 The OSB sheathing must comply with US DOC PS-2.
- **5.5** Fire-resistance-rated construction is outside the scope of this report.

6.0 EVIDENCE SUBMITTED

- **6.1** Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Membranes Factorybonded to Wood-based Structural Sheathing, Used as Water-resistive Barriers (AC310), dated May 2008 (editorially revised August 2015).
- 6.2 Air leakage data in accordance with ASTM E2357.

7.0 IDENTIFICATION

Each ZIP System[®] Wall Sheathing panel described in this report must bear a label that includes the manufacturer's name (Huber Engineered Woods LLC), the product name, nominal panel thickness, the evaluation report number (ESR-1474), and the words "Mill 229, Crystal Hill, Virginia"; "Mill 228, Easton, Maine"; "Mill 227, Commerce, Georgia"; or "Mill 290, Broken Bow, Oklahoma." The OSB sheathing must also bear a label demonstrating compliance with US DOC PS 2 from an approved inspection agency. The ZIP System[™] seam tape roll must be labeled with the ZIP System logo and the evaluation report number ESR-1474 (see Figure 8). .



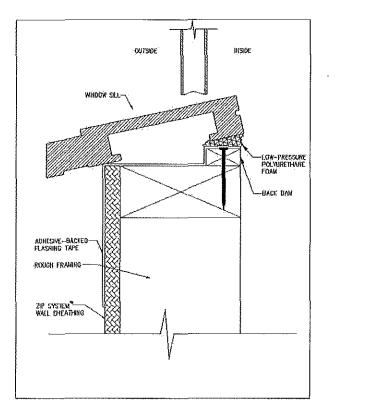
JAMB SECTION

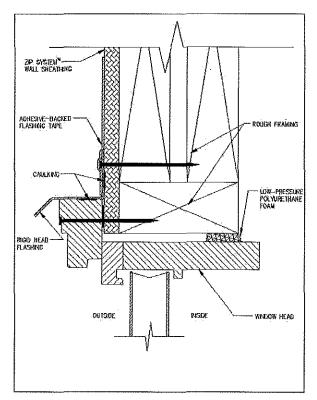
FIGURE 1-TYPICAL CROSS SECTIONS OF FLANGED WINDOW

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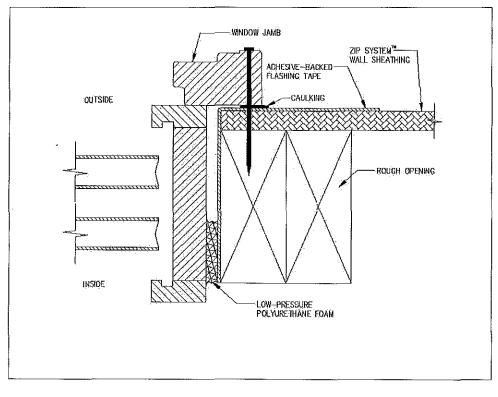
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SILL SECTION

HEADER SECTION



JAMB SECTION

FIGURE 2-TYPICAL CROSS SECTIONS OF INSTALLED BRICK MOLD WINDOW

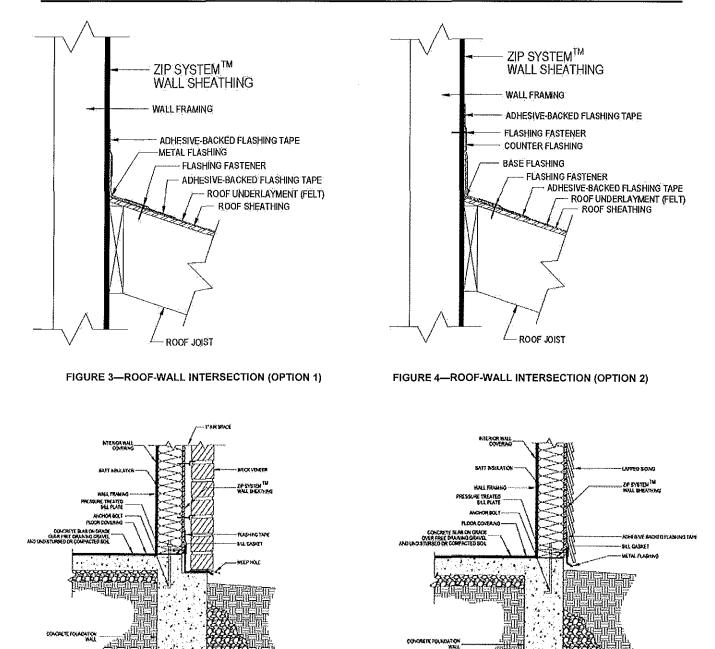
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CONCRETE FOOLING

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inee oran ng Gravel

WIPPO NI



FREE CRAMMS

WEIPAG TRE

AND FLASHING DETAILS FOR BRICK SIDING

FIGURE 5-TYPICAL WALL-SILL INTERSECTION

CONCRETE FOOTING

FIGURE 6—TYPICAL WALL-SILL INTERSECTION

AND FLASHING DETAILS FOR LAPPED SIDING

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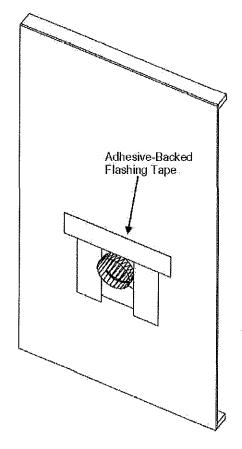


FIGURE 7—INSTALLATION AT PENETRATION OPENING (NON-FIRE-RESISTANCE RATED)



FIGURE 8-LABELING FOR THE ZIP SYSTEM SEAM TAPE ROLL



"2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence"

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ZIP SYSTEM™ FLEXIBLE FLASHING TAPE

ONE RESOURCE SQUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262

EVALUATION SUBJECT:

HUBER ENGINEERED WOODS, LLC

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION SECTION: 07 65 00—FLEXIBLE FLASHINGS

REPORT HOLDER:

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ESR-2227

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 65 00—Flexible Flashings

REPORT HOLDER:

HUBER ENGINEERED WOODS, LLC ONE RESOURCE SQUARE 10925 DAVID TAYLOR DRIVE, SUITE 300 CHARLOTTE, NORTH CAROLINA 28262 (800) 933-9220 www.huberwood.com

EVALUATION SUBJECT:

ZIP SYSTEM™ FLEXIBLE FLASHING TAPE

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 International Building Code[®] (IBC)
- 2015, 2012 and 2009 International Residential Code[®] (IRC)

Property evaluated:

Water resistance

2.0 USES

ZIP System[™] Flexible Flashing Tape is a pressuresensitive, self-adhering, cold-applied tape used as flashing around windows, frames, door frames, wall penetrations and roof penetrations described in this report when used with the materials and substrates noted in Section 5.3. The use of the tape as a flashing material is recognized for use on Type V construction under the IBC and non-fireresistance-rated construction recognized under the IBC and IRC. The tape is recognized as a self-adhered membrane when used as flashing material in accordance with 2015 IRC Section R703.4 [2012 and 2009 IRC Section R703.8].

3.0 DESCRIPTION

ZIP SystemTM Flexible Flashing Tape is a pressuresensitive tape consisting of a polyolefin film with an acrylic adhesive which complies with AAMA 711. The tape is nominally 0.012 inch thick [0.30 mm (12 mils)] and is produced in rolls of various widths, [minimum $3^{3}/_{4}$ inches (95 mm)] and lengths.

4.0 INSTALLATION

Installation of ZIP System[™] Flexible Flashing Tape must comply with this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Reissued February 2016 This report is subject to renewal February 2018.

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The surfaces to which the tapes are applied must be dry and free of frost, dust and dirt, loose nails, and other protrusions. Contact of the adhesive surface with foreign matter that may affect the bond to the substrate must be avoided. The ambient air and substrate temperatures must be at or above $20^{\circ}F$ (-6.7°C) at the time of application.

The tape is applied around penetrations in the manner described in the tape manufacturer's, as well as the window or door manufacturer's, published installation instructions, as applicable. End joints must be overlapped the minimum distance specified in the manufacturer's published installation instructions. The tape is cut to the desired length and firmly pressed into the entire length of the opening and smoothed out until it conforms tightly to the frame opening. Wrinkles in the ZIP System[™] Flexible Flashing Tape are acceptable unless they create a leak path. Application should be in accordance with the manufacturer's installation instructions.

5.0 CONDITIONS OF USE

The Huber Engineered Woods ZIP System[™] Flexible Flashing Tape described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- **5.1** Installation must comply with this report and the manufacturer's published installation instructions. In the event of conflict between this report and the installation instructions, this report governs.
- 5.2 The ZIP System[™] Flexible Flashing Tape must not be left exposed to the weather or installed where it is subject to permanent direct weather exposure.
- 5.3 Installation of the tape as a flashing material is limited to use with OSB, wood, steel, aluminum and vinylframed flanged windows and door frames, transitions to rigid flashings and the proprietary wall and roof sheathing substrates recognized in ICC-ES evaluation reports <u>ESR-1473</u> and <u>ESR-1474</u>.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Flexible Flashing Materials (AC148), dated April 2015.

7.0 IDENTIFICATION

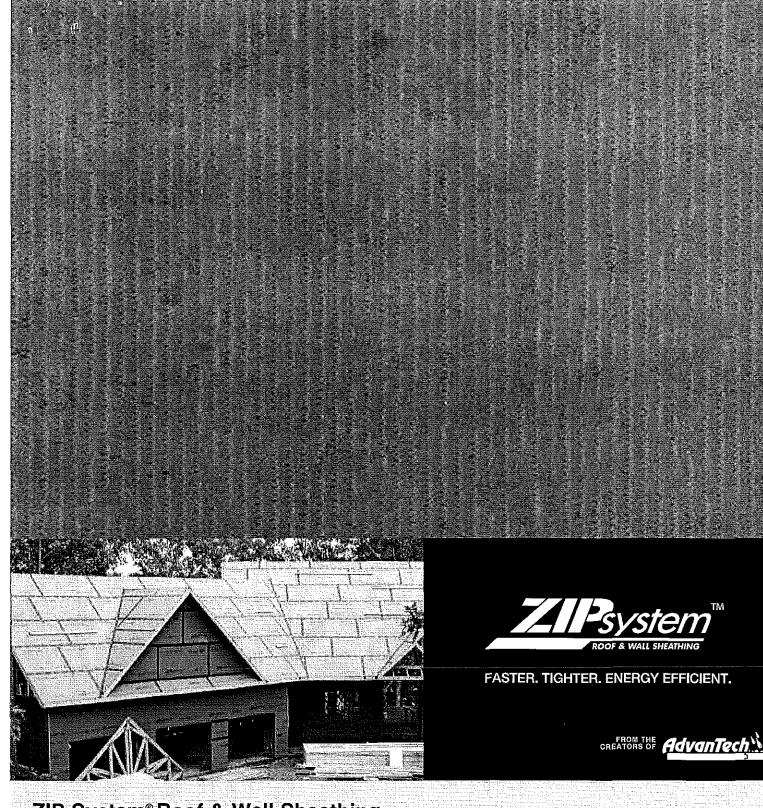
The Huber Engineered Woods ZIP System[™] Flexible Flashing Tape described in this report is labeled at regular intervals with the manufacturer's identification (ZIP System[™]) and the evaluation report number (ESR-2227). The tape packaging is labeled with the manufacturer's name (Huber Engineered Woods LLC) and address and the evaluation report number (ESR-2227).

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ZIP System[®] Roof & Wall Sheathing INSTALLATION MANUAL

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ZIP System® Roof & Wall Sheathing INSTALLATION MANUAL

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- 03 ZIP System[™] Tape Installation -Roof Panel Seams
- 04 ZIP System[™] Tape Installation -Roof Panel Seams (continued)
- 05 Roof Covering Installation Instructions
- 06 ZIP System® Roof & Wall Sheathing Installation
- 07 ZIP System[™] Tape Installation Panel Seams
- ATTENTION: This installation guide is intended to provide general information for the designer and end user. The following guidelines will help you safely and properly install the ZIP System[®] Roof & Wall wall sheathing. We urge you, and anyone installing this product, to read these guidelines in order to minimize any risk of safety hazards and to prevent voiding any applicable warranties. This manual is a general installation guide and does not cover every installation condition. Proper installation shall be deemed to mean the most restrictive requirement specified by Huber Engineered Woods (HEW), local building code, engineer or architect of record or other authority having jurisdiction. You are fully and solely responsible for all safety requirements and code compliance. For additional information contact Huber Engineered Woods LLC.

ZIP System® Roof & Wall Sheathing Safety Guidelines

- Follow all OSHA regulations and any other safety guidelines and safety practices during installation and construction.
- Use approved safety belts and/or harnesses or other fall protection equipment.
- Install ZIP System panels and tape only in dry conditions and on dry surfaces.
 Do not install in rain, snow, frost or other slippery conditions.
- Wear rubber-soled or other high-traction footwear while installing ZIP System sheathing in a roof application. Do not wear footwear with worn soles or heels.
- Ensure the roofing surface is free from oil, chemicals, sawdust, dirt, tools, electric cords, air hoses, clothing and anything else that might create a tripping hazard.
- Install temporary toe boards along the ZIP System sheathing roof surface.

What Is ZIP System® Roof & Wall Sheathing?

ZIP System Roof & Wall sheathing is code-recognized as a wood structural panel, roofing underlayment (ICC-ES ESR-1473), water-resistive barrier and air barrier (ICC-ES ESR-1474). ZIP System Roof & Wall sheathing has a built-in moisture barrier that lets you say good-bye to building paper or housewrap on the walls and felt paper on the roof.* Simply install the panels, tape the seams, and you have a structural wall sheathing, water-resistive barrier and air barrier or a structural roof sheathing and roofing underlayment all from one product.

- 08 ZIP System[®] Roof & Wall Sheathing Window Installation Flanged Windows & Brick Mould Windows
- 09 ZIP System[®] Roof & Wall Sheathing Window Installation Brick Mould Windows (continued)
- 10 ZIP System[®] Roof & Wall Sheathing -Penetration Openings
- 11 ZIP System[®] Roof & Wall Sheathing Installation Details
- 12 ZIP System[®] Roof & Wall Sheathing Installation Details (continued)

ZIP System Roof & Wall sheathing can be used with a range of exterior claddings and roof coverings. Approved wall coverings include brick, vinyl, stone, wood fiber cement, wood and cedar shakes, traditional hard coat stucco and specified drainable EIFS applications, however it is not recommended for use with adhesively attached EIFS. Approved roof coverings include asphalt-fiberglass shingles, metal tiles and panels, clay and concrete tiles, slate and slate-type shingles and wood shakes and shingles. Follow all cladding and roof covering manufacturer's installation instructions.

ZIP System Roof & Wall sheathing can be used on buildings of Type III (Roof Applications ONLY) and Type V construction and construction permitted under the IRC.

ZIP System® Roof & Wall Sheathing Includes:

- ZIP System sheathing panels with built-in moisture barrier with preprinted fastening and tape guides
- ZIP System tape

Storage and Handling

- Set panel stack on three supports (stickers) to keep off the ground.
- Outdoors, cover panels loosely with waterproof protective material.
- Anchor covers on top of the stack, but keep away from sides and bottom to assure good air circulation.
- In high moisture environments, cut banding on the panel stack to prevent edge damage.

ZIP System® Roof & Wall Sheathing Notes and Limitations:

- Do not use on roofs with slopes less than 2/12.
- Do not use abutted against general stone or masonry without providing a minimum of a 1/2" gap.
- Do not install ZIP System tape in temperatures less than 20° F
- ZIP System products are not recommended for manufactured housing applications that are built under a federal building code administered by the U.S. Department of Housing and Urban Development (HUD).
- Do not use panel edge clips (H-Clips) with ZIP System Roof & Wall sheathing without expressed written approval from Huber Engineered Woods.**
- Do not use ZIP System tape to permanently seal around circular roof projections (plumbing vents, pipes, curved walls, etc.)

Contents (continued)

Wall Coverings

- ZIP System Roof & Wall sheathing should be covered with the finished roof covering or exterior cladding within 180 days of installation.
- Finished roof and exterior cladding products should be installed per the manufacturer's installation instructions.
- Per the recommendation of the Western Red Cedar Lumber Association and the U.S. Forest Products Laboratory, wood siding should be primed before installation
- When original roofing or claddings are removed and replaced on existing ZIP System sheathing, the roof or wall should be covered with an additional roofing underlayment or water resistive barrier prior to installation of the new finished roofing or cladding.

Note: In cladding systems requiring multiple layers of water-resistive barriers, like traditional hard-coat stucco, ZIP System sheathing is intended only to replace the first layer.

Wet Blown Cellulose Insulation

In addition to following manufacturer installation instructions, we recommend a maximum moisture content of the cellulose of less than 25% measured at the inside surface of the ZIP System panel before closing the wall cavity.

Secondary Coatings

Do not apply secondary coatings or treatments to ZIP System Roof & Wall sheathing panels with the exception of the following:

- HEW approved fire resistant coatings. Fire resistant coatings must be tested and approved by HEW for use with ZIP System panels.
- Field applied water-soluble borate insecticide or fungicide treatments applied to the non overlay side of the panel. See technical tip, "Termite Treatments on ZIP System Roof & Wall Sheathing," on zipsystem.com for more information.
- Permeable laminated radiant barrier foil or paint. For a radiant barrier foil or coating to be considered permeable, it must have an applied permeance of five perms or greater as tested by the ASTM E 96 wet cup standard. For a radiant foil, the permeance evaluation would include any adhesive and/or backer used to laminate a foil. For a radiant paint/coating, the permeance evaluation should be conducted at the applied thickness of the paint/coating.

ZIP System Roof and Wall sheathing replaces only the first layer in multi-underlayment systems. Edge support is not required by code with 1/2 (32/16 span rated) and 5/8 (40/20 span rated) performance category sheathing if the framing does not exceed 24* o.c. and the total foad does not exceed 93 psf for 1/2 and 156 psf for 5/8 performance categories. This is based on L/180 deflection criteria for total load.

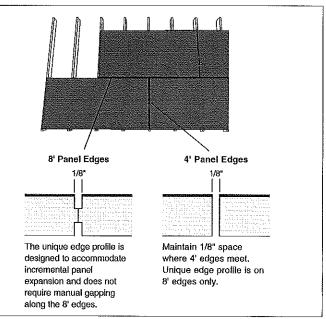
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ZIP System® Sheathing Installation on Roofs

Overview: ZIP System Roof & Wall sheathing is composed of ZIP System panels and ZIP System seam sealing tape. ZIP System⁶ Roof & Wall Sheathing panels should be fully installed before the seam sealing tape is applied. In general, the ZIP System roof sheathing panels should be installed from the lowest point on the roof to the highest. It is at the discretion of the installer whether to apply tape from the top down or from the bottom up. However, working from the highest sections of the roof and working down will minimize foot traffic on the tape. The following installation steps are presented as guidelines and a general outline of the installation process. These are manufacturer installation recommendations – please visit zipsystem.com for a library of flashing and installation details. You are fully and solely responsible for all safety requirements. Good construction and safety practices should be followed at all times.

Step 1.

- Ensure that the panel surface is dry and clean of any nails, sawdust, or other debris or protrusions prior to installing or walking on the panels.
- After ensuring compliance with all OSHA and local code safety guidelines, install ZIP System sheathing panels with the moisture barrier surface facing outside. The long edge (8') should be oriented perpendicular to the framing members, and panels should be installed with the 4' edge seams staggered a minimum of 24".
- 1/8" spacing between square edges of all adjacent panels is recommended, in accordance with industry standards for wood sheathing. (Tongue & Groove panels are designed to self-space and do not require manual spacing on the 8' edges.)



Step 2.

- Ensure that ZIP System panels span at least three framing members and a framing member supports the entire 4' edge of the panels.
- Fasten the ZIP System Roof & Wall sheathing panel to the framing members with code approved fasteners spaced at the appropriate edge and intermediate spacing. It is the responsibility of the general contractor to verify proper fastener type and spacing prior to installation.
- Apply the fasteners 3/8" from the panel ends and corners.
- An ideal installation would be where fastener heads are flush with the panel surface. However, due to variations in materials and limitations on equipment, this may be difficult to achieve in some situations. It is not required to tape over overdriven fasteners unless the fastener head creates a hole through the entire panel thickness. Please see the technical tip, "Overdriven Fasteners in ZIP System Roof and Wall Sheathing," for more information.

Step 3.

Install temporary toe boards as necessary when applying the ZIP System sheathing panels up the slope of the roof planes.



ZIP System[™] Tape Installation - Roof Panel Seams

Apply ZIP System tape after all ZIP System Roof & Wall sheathing panels are fully fastened to roof-framing members. Only ZIP System tape should be used to seal the seams of ZIP System panels. Ensure that the panel surfaces are dry and free of any nails, sawdust and other debris, or protrusions. Avoid stepping on tape in high temperature environments, **ZIP System tape is a contact tape that requires pressure for an adequate seal**.

Step 1.

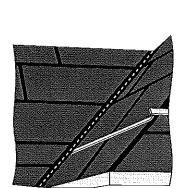
- Apply ZIP System tape to every vertical and horizontal panel seam. It is at the discretion of the installer whether to apply tape from the top down or from the bottom up. However, working from the highest sections of the roof and working down will minimize foot traffic on the tape.
- Ensure that the tape is centered over the seam within +/- 1/2" to provide adequate coverage and to ensure that wrinkles in the tape are minimized.
- Ensure that tape lengths are continuous across the 8' horizontal edge of the panels. If splices are unavoidable, create an overlapping splice of at least 3". Apply moderate pressure onto the surface of the tape to ensure a secure bond between the panel and the tape.
- Use ZIP System tape gun or tape roller to apply pressure to the tape and smooth out any wrinkles.
- Take special care to remove any voids and/or trapped air at splice areas and T-joints.

Step 2.

- For valley areas of framing, we recommend you use 6" wide ZIP System tape. This tape is wider than panel seam tape and is designed to give you optimal protection in valley areas.
- Starting from the bottom and working your way up, apply one continuous piece of 6" tape so that the center of the tape is over the valley seam.
- Use the tape gun or tape roller to apply pressure to the tape to ensure proper contact with the panel and to eliminate any wrinkles that might have occurred in the tape. Take special care to seat tape completely into the valley.

Note:

- It is important to pay extra attention to valley taping as water is directed toward the valleys during rain events.
- Self-adhering ice and water barriers may be required by code. ZIP System tape is not considered a replacement for self-adhering ice and water barriers. Therefore, when self-adhering ice and water barriers are required, they should be installed in addition to ZIP System tape.



3" overlap Second Tape Plece



First Tape Piece

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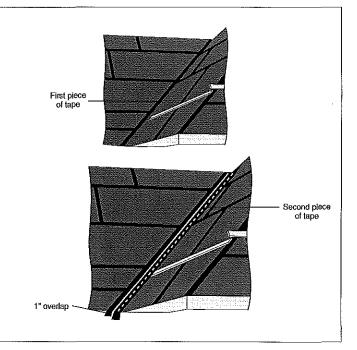
ZIP System[™] Tape Installation - Roof Panel Seams (continued)

Step 3.

- If 6" ZIP System tape is not available, use two continuous pieces of 3.75" ZIP System panel seam tape over the entire length of the valley seam, overlapping the pieces on the valley seam by at least 1".
- Starting from the bottom, install the first piece of tape overlapping the valley seam by at least 1".
- Use the tape gun or tape roller to apply pressure to the tape to ensure proper contact with the panel and to eliminate any wrinkles that might have occurred in the tape.
- Apply the second piece of tape, overlapping the first piece in the valley seam by 1".
- Repeat use of the tape gun or roller to make sure the tape is adequately adhered and tightly pressed into the valley seam.

Note:

- It is important to pay extra attention to valley taping as water is directed toward the valleys during rain events.
- Self-adhering ice and water barriers may be required by code. ZIP System tape is not considered a replacement for self-adhering ice and water barriers. Therefore, when self-adhering ice and water barriers are required, they should be installed in addition to ZIP System tape.



Step 4.

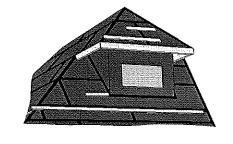
- To provide temporary weather protection to roof/wall intersections of dormers or other wood-sheathed projections, apply 2" of the tape width up the vertical projection from where it intersects with the roof. The remaining tape width can be adhered to the ZIP System roof sheathing panels.
- Use the tape gun or tape roller to apply pressure to the tape and smooth out any wrinkles.

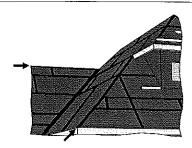
Step 5.

- Install ZIP System tape over hips and ridges by centering the tape over the peak seam. Apply tape in sufficient length to completely extend the length of the hip or ridge.
- Starting from the lowest point of the hip and working up, press tape into place keeping tape centered over the hip. Apply moderate pressure onto the surface of the tape to ensure a secure bond between the panel and the tape.
- Cut ridge tape as required for ventilation prior to installing ridge vent.

Step 6.

Tape over toe board nail holes once the toe boards are removed, working from the highest toe boards to the lowest.







ZIP System Roof & Wall sheathing is a code recognized sheathing and underlayment and is approved for use with the following roof coverings:

- Asphalt-fiberglass Shingles
- Metal Roofs (shingles and panels)
- Clay Tile
- Concrete Tile
- Slate and Slate-type Shingles
- Wood Shingles
- Wood Shakes

When installing roof coverings, follow applicable codes and manufacturer's suggested instructions. Some roof coverings require a slip-sheet in addition to conventional underlayment. Where slip-sheets are required, they should be installed over ZIP System sheathing panels.

05

Note: Visit zipsystem.com for updates and installation details.

Asphalt-fiberglass Shingles

Apply asphalt shingles directly to ZIP System sheathing. For roofs with a slope of 2/12 or greater but less than 4/12, additional underlayment may be required. Install asphalt-fiberglass shingles according to applicable codes and manufacturer's installation instructions.

Metal Roof Coverings

Metal roof coverings may be applied to ZIP System sheathing provided that the roof covering manufacturer's installation instructions and applicable codes are followed.

Fasteners used to secure the ZIP System Roof & Wall sheathing panels to supporting framing must be compatible with the specific metal roof covering used. Galvanized fasteners shall be used with galvanized roof coverings, aluminum-zinc coated fasteners shall be used with aluminum-zinc coated roof coverings and 300 series stainless steel fasteners shall be used with copper roofs. Stainless steel fasteners are acceptable with all metal roof types.

In addition, metal roof flashing shall also be made of a material compatible with the specific metal roof covering used. Apply metal shingles on roofs with slopes of 3/12 or greater.

Clay and Concrete Tile Roof Coverings

ZIP System Roof & Wall sheathing is intended to replace the first layer in a two-layer or multi-layer underlayment system. When installing clay or concrete tile roof coverings, follow the installation recommendations of FRSA/TRI 07320. Install tile roofs according to applicable codes and manufacturer's installation instructions.

Slate and Slate-type Shingles

Apply state and state-type shingles on roofs with slopes of 4/12 or greater. Install state and state-type shingles according to applicable codes and manufacturer's installation instructions,

Wood Shingles

ZIP System Roof & Wall sheathing is intended to replace the first layer of underlayment required by the IBC and/or the IRC. Additional layers of underlayment may be required by code depending on the local climate. Apply wood shingles on roofs with slopes of 3/12 or greater. Install wood shingles according to applicable codes and manufacturer's installation instructions.

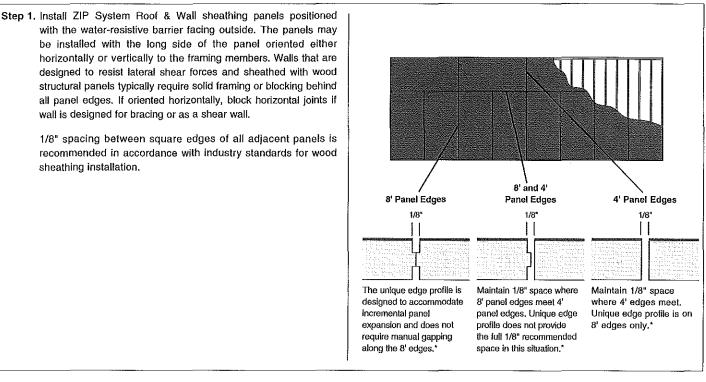
Wood Shakes

ZIP System Roof & Wall sheathing is intended to replace the first layer of underlayment required by the IBC and/or the IRC. Additional layers of underlayment may be required by code depending on the local climate. ZIP System roof sheathing is not to be construed as a replacement for interlayment. Apply wood shakes on roofs with slopes of 4/12 or greater. Install wood shakes according to applicable codes and manufacturer's installation instructions.

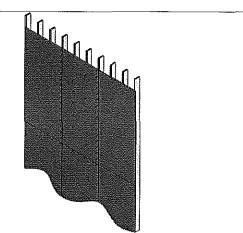
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ZIP System® Sheathing Installation on Walls

Overview: ZIP System Roof & Wall sheathing is composed of ZIP System panels and ZIP System seam sealing tape. ZIP System[®] Roof & Wall Sheathing panels should be fully installed before the seam sealing tape is applied. The following installation steps are presented as a general outline of the installation process. These are manufacturer installation recommendations – please visit zipsystem.com for a library of flashing and installation details. You are fully and solely responsible for all safety requirements. Good construction and safety practices should be followed at all times.

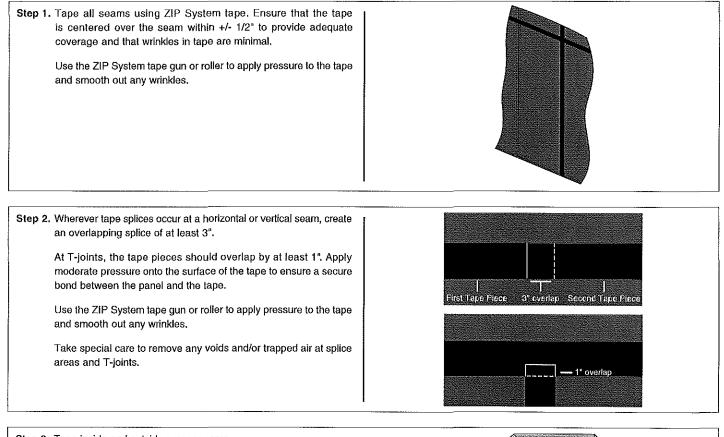


Step 2. Fasten the panels to the framing members with code approved fasteners. Space fasteners 6" o.c. along supported edges and 12" o.c. at intermediate supports, unless otherwise specified by local code or the designer of record. It is the responsibility of the general contractor to verify proper fastener type and spacing prior to installation. Apply the fasteners 3/8" from the ends and corners. An ideal installation would be where fastener heads are flush with the panel surface. However, due to variations in materials and limitations on equipment, this may be difficult to achieve in some situations. It is not required to tape over overdriven fasteners unless the fastener head creates a hole through the entire panel thickness. Please see the technical tip "Overdriven Fasteners in Zip System Roof and Wall Sheathing," on zipsystem.com for more information.

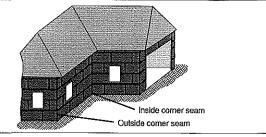


ZIP System[™] Tape Installation - Wall Panel Seams

Apply ZIP System tape after all ZIP System Roof & Wall sheathing panels are fully fastened to wall-framing members. Only ZIP System tape should be used to seal the seams of ZIP System panels. Ensure that the panel surface is dry and free of sawdust and dirt prior to taping. **ZIP System tape is a contact** tape that requires pressure for an adequate seal.



Step 3. Tape inside and outside corner seams.



Note: Tape over any areas of the panel or tape that are damaged during construction.

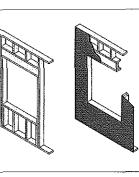
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ZIP System - Window Installation

DISCLAIMER: The following steps represent a general overview for the proper installation of window flashing. Please defer to/consult the installation instructions of your window manufacturer as well as code requirements in your jurisdiction for full installation details.

Flanged Windows

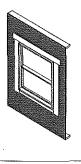
 Fasten the ZIP System sheathing to the wood frame and install ZIP System tape to all wall panel seams, as detailed in sections 02 and 03.



 Cut a length of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to the header, ensuring that the flashing overlaps the jamb flashings.*

Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

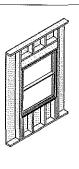
*DO NOT tape bottom flange.



2. ZIP System tape may be used as pan flashing if installed in accordance with flanged window installation details posted on zipsystem.com. Other adhesive-based flashing tapes (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) may be used as pan flashing if installed per ASTM 2112-07. Apply the flashing to cover the bottom of the opening, overhanging onto the sheathing by at least 2" and extending a minimum of 6" up each jamb.



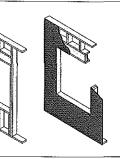
6. From the interior, apply <u>low-pressure</u> polyurethane foam (for windows) between the rough opening and the window frame. (Caulk sealant compatible with the sill flashing may be used at the sill if the opening between the sill flashing and window is too narrow to allow the use of low-pressure polyurethane foam.)



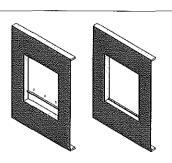
When using ZIP System tape, butyl, 100% silicone or polyurethane sealants are acceptable. Do not use latex sealants with ZIP System tape. If using another flashing tape, follow the flashing manufacturer's recommendation in selecting a sealant compatible with that flashing.

Brick Mould Windows

 Fasten the ZIP System sheathing to the wood frame and install ZIP System tape to all wall panel seams, as detailed in sections 02 and 03.



2. If recommended by the window manufacturer, cut a strip of wood to function as a back dam at the sill. The wood strip should have a length equal to the width of the rough opening and a height and width of at least 1/2". Position the block at the inside edge of the window frame.



3. Apply sealant around inside face of mounting flange. Sealant must be gapped at the sill to permit drainage. Install and level window per manufacturer's installation instructions. Verify sealant compatibility with window manufacturer. When using ZIP System tape as pan flashing, butyl, 100% silicone or polyurethane sealants are acceptable. Do not use latex or other waterbased sealants.



4. Cut two pieces of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to each of the window jamb flanges, ensuring the jamb flashings overlap the sill flashing.

Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

ZIP System - Window Installation

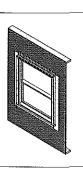
DISCLAIMER: The following steps represent a general overview for the proper installation of window flashing. Please defer to/consult the installation instructions of your window manufacturer as well as code requirements in your jurisdiction for full installation details.

Brick Mould Windows (continued)

3. ZIP System tape may be used as pan flashing if installed in accordance with brick mould window installation details posted on zipsystem.com. Other adhesive-based flashing tapes (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) may be used as pan flashing if installed per ASTM 2112-07. Apply the flashing to cover the bottom of the opening, overhanging onto the sheathing by at least 2" and extending a minimum of 6" up each jamb.



- 7. Cut a piece of rigid head flashing so that when installed, it is flush with the edges of the exterior moulding of the window. Apply a bead of sealant to the back and bottom surface of the rigid head flashing. Use sealant recommended by the flashing manufacturer.
- Secure the rigid head flashing to ZIP System wall sheathing.



 Cut a length of ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to the rigid head flashing, ensuring that the adhesive-backed flashing overlaps the jamb flashings.



Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

10. From the interior, apply low-pressure polyurethane foam (for windows) between the rough opening and the window frame. (Caulk sealant compatible with the sill flashing may be used at the sill if the opening between the sill flashing and window is too narrow to allow the use of low-pressure polyurethane foam.)



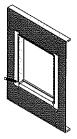
When using ZIP System tape, butyl, 100% silicone or polyurethane sealants are acceptable. Do not use latex or other water-based sealants with ZIP System tape. If using another flashing tape, follow the flashing manufacturer's recommendation in selecting a sealant compatible with that flashing.

4. For vertical jambs, cut ZIP System tape or another adhesive-backed flashing tape (must meet ICC-ES Acceptance Criteria for Flashing Materials (AC148)) and apply to each of the window jambs. Ensure that they cover the entire inside of the rough opening as well as overlap onto the sheathing by at least 2". Flashing shall also extend above the rough opening, such that it will project 1" beyond the exterior trim of the window.



Once the tape is in place, use the tape gun or roller to seal the flashing to the sheathing.

5. Apply sealant to jambs and header allowing for drainage at the sill in accordance with window manufacturer's installation instructions. When using ZIP System tape, use a butyl, polyurethane or 100% silicone sealant. Do not use latex or other water-based sealants with ZIP System tape. When using another flashing tape, follow the flashing manufac-turer's recommendations in selecting a sealant compatible with that flashing.



6. Install and level window per manufacturer's installation instructions.

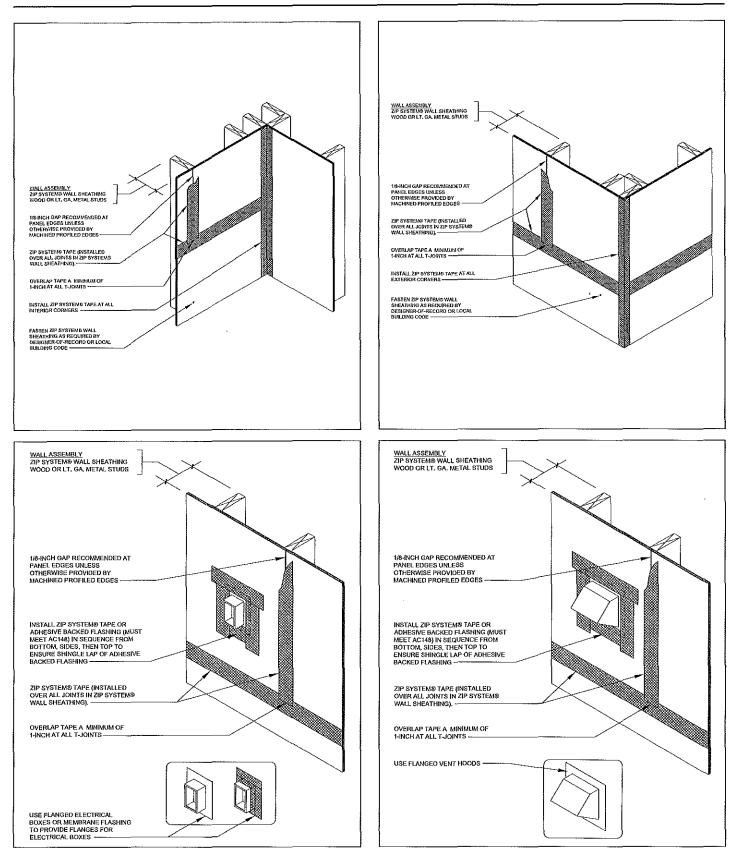


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ZIP System - Penetration Openings

DISCLAIMER: The following steps represent a general overview for the proper installation of penetration flashing. Please defer to/consult your code requirements in your jurisdiction for full installation details.



WALL ASSEMBLY VINYL/WOOD/FIBER CEMENT SIDING WALL ASSEMBLY BRICK VENEER AIR SPACE (AS PRESCRIBED BY (INSTALLED IN ACCORDANCE WITH CLADDING MANUFACTURER'S LOCAL BUILDING CODE) INSTALLATION RECOMMENDATIONS) ZIP SYSTEM® WALL SHEATHING WOOD OR LT. GA. METAL STUDS ZIP SYSTEM® WALL SHEATHING WOOD OR LT, GA, METAL STUDS TOP EDGE OF FLASHING TAPED WITH ZIP SYSTEM® TAPE OR TOP EDGE OF FLASHING TAPED TO WALL SHEATHING WITH ZIP SYSTEM® ADHESIVE BACKED FLASHING. TAPE OR ADHESIVE BACKED (MUST MEET AC148) FLASHING. (MUST MEET AC148) CODE APPROVED BASE CODE APPROVED ELASHING FLASHING WEEP HOLES (AS PRESCRIBED FOUNDATION BY LOCAL BUILDING CODE) WALL ASSEMBLY BRICK VENEER WALL ASSEMBLY VINITAWOOD/HER CEMENT SIDING (INSTALLED IN ACCORDANCE WITH CLADDING MANUFACTURER'S INSTALLATION RECOMMENDATIONS) BRICK VENEER AIR SPACE (AS PRESCRIBED BY LOCAL BUILDING CODE) ZIP SYSTEM® WALL SHEATHING WOOD OR LT, GA. METAL STUDS ZIP SYSTEM® WALL SHEATHING WOOD OR LT. GA. METAL STUDS Z113. 1/8-INCH GAP RECOMMENDED AT PANEL EDGES UNLESS OTHERWISE PROVIDED BY MACHINED PROFILED EDGES ZIP SYSTEM® TAPE (INSTALLED OVER ALL JOINTS IN ZIP SYSTEM® WALL SHEATHING). ZIP SYSTEM® TAPE (INSTALLED OVER ALL JOINTS IN ZIP SYSTEM® WALL SHEATHING), OVERLAP TAPE A MINIMUM OF 1-INCH AT ALL T-JOINTS OVERLAP TAPE A MINIMUM OF 1-INCH AT ALL T-JOINTS 1/6-INCH GAP RECOMMENDED AT PANEL EDGES UNLESS OTHERWISE PROVIDED BY MACHINED PROFILED EDGES -----1/8-INCH GAP RECOMMENDED AT PANEL EDGES UNLESS OTHERWISE PROVIDED BY MACHINED PROFILED EDGES ------KID Stern' FASTEN ZIP SYSTEM® WALL SHEATHING AS REQUIRED BY DESIGNER-OF-RECORD OR LOCAL BUILDING CODE FASTEN ZIP SYSTEM® WALL SHEATHING AS REQUIRED BY DESIGNER-OF-RECORD OR LOCAL BUILDING CODE-

ZIP System Sheathing Installation Details on Walls – visit zipsystem.com for more details.

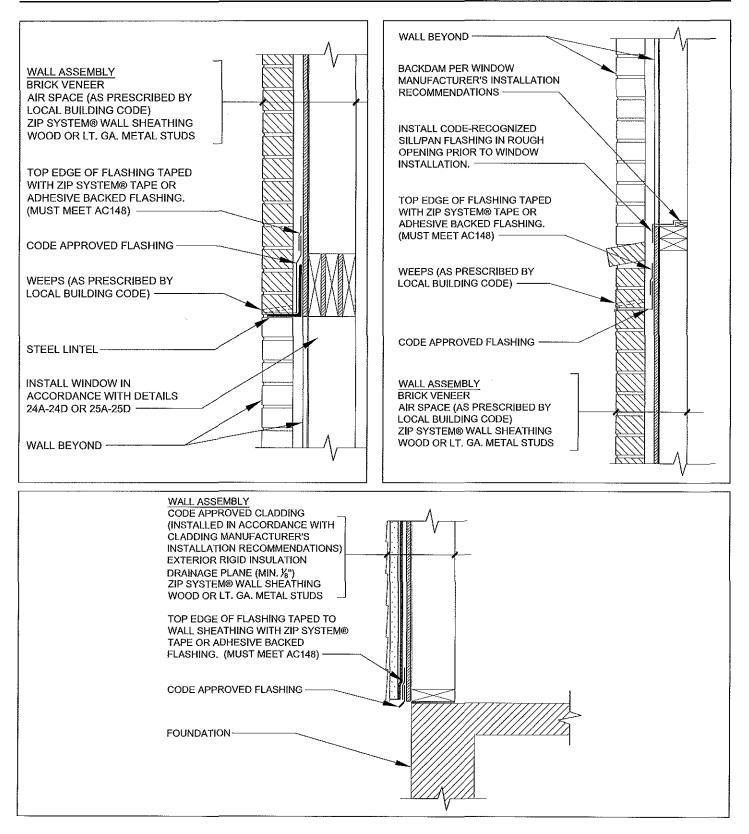
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Note: For optimal air leakage reduction, all untaped edges of the panels can be caulked, gasketed or sealed with a weather stripping material.

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ZIP System Sheathing Installation Details on Walls (continued)



Note: For optimal air leakage reduction, all untaped edges of the panels can be caulked, gasketed or sealed with a weather stripping material.

Leiby, Sara (LARA)

From: Sent:	Yvette Robinson <yrobinson@highlandparkcity.org> Wednesday, June 07, 2017 1:51 PM</yrobinson@highlandparkcity.org>
То:	Leiby, Sara (LARA); HYopp@HighlandParkClty.org; tford@highlandparkcity.org; Loris
Cc:	Thomas; Kathy Ramsey; rharlin@highlandparkcity.org Allaire, LeeAnn (LARA); Lambert, Keith (LARA)
Subject:	RE: Highland Park Building Code Adoption
Attachments:	Highland Park Building Operations Documents.pdf

Good Afternoon,

Please see the attached documentations in response to requested information and updates to our application to enforce.

Please review and let us know if there are any additional changes or information needed by July 3, 2017. This will afford us the time to reply prior to the next meeting.

Thank you in advance and we look forward to a positive outcome at the next meeting.

Yvette L. Robinson, Director Community & Economic Development City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203 313.252.0050 ext. 257 313.852.7320 fax YRobinson@HighlandParkCity.org www.HighlandParkCity.org "Return to Excellence"

-----Original Message-----From: Leiby, Sara (LARA) [mailto:LeibyS@michigan.gov] Sent: Thursday, May 11, 2017 3:40 PM To: HYopp@HighlandParkClty.org; yrobinson@highlandparkcity.org Cc: Allaire, LeeAnn (LARA); Lambert, Keith (LARA) Subject: RE: Highland Park Building Code Adoption

Good Afternoon,

Please see the attached regarding the April 12, 2017 Construction Code Commission review of or your Application to Administer and Enforce Michigan Building, Electrical, Mechanical and Plumbing Codes. The attachment was also placed in the mail today.

If you have any questions, please contact the Administrative Services Division at (517)241-9303.

Sara Leiby, Secretary Administrative Services Division Bureau of Construction Codes Department of Licensing & Regulatory Affairs (517) 241-9303 For 12 Periods Ending 7/31/2018

Period Ending 8/31/2017 9/30/2017 10/31/2017 11/30/2017 12/31/2017 1/31/2018 2/28/2018 3/31/2018 4/30/2018 5/31/2018 5/30/2018 7/31/2018 Total Revenue **Building Permits** 5000.00 7000.00 10000.00 10000.00 10000.00 11000.00 11000.00 12000.00 14000.00 15000.00 17000.00 20000.00 -142,000 Rentals, Vacants & Business Licenses 4000.00 5000.00 7000.00 8000.00 8000.00 8000.00 9000.00 9000.00 10000.00 10000.00 10000.00 10000.00 -98.000 240000.00 9000.00 18000.00 20000.00 21000.00 24000.00 25000.00 27000.00 30000.00 **Total Revenue** 12000.00 17000.00 18000.00 19000.00 **Operating Costs** 114,000 9,500 9,500 9,500 9,500 9,500 9,500 9,500 9,500 9,500 9,500 9,500 9,500 Wages: Temporary Employee: 500 500 500 500 500 500 500 500 500 500 500 500 6,000 4.000 4,000 4,000 4,000 4.000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 48,000 Payroll Taxes 0 0 0 0 0 0 0 0 Health Insurance 0 0 0 0 0 300 Fuel: 300 300 300 300 300 300 300 300 300 300 300 3,600 200 200 200 200 200 200 200 200 200 200 200 200 2,400 Tools and Equipment: Other Office Equipment-1,000 1.000 1,000 1,000 1,000 1,000 12,000 1,000 1.000 1.000 1.000 1,000 1.000 Misc Total Cost Of Sales 15,500 15,500 15,500 15,500 15,500 15,500 15,500 15,500 15,500 15,500 15,500 15,500 186,000 1500.00 2500.00 3500.00 5500.00 9500.00 11500.00 14500.00 54000.00 Gross Revenue 6500.00 3500.00 2500.00 4500.00 8500.00 Expenses 50 50 600 Company-Issued Clothing: 50 50 50 50 50 50 50 50 50 50 1,000 12,000 1,000 1,000 1.000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 Office Supplies: Postage and Delivery: 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 18,000 Cellular Service: 500 500 500 500 500 500 500 500 500 500 500 500 6,000 0 0 0 0 0 0 0 0 0 0 0 0 0 Seminars & Training 400 400 400 400 400 400 400 400 400 400 400 400 4,800 140 Dues and Subscriptions: 140 140 140 140 140 140 140 140 140 140 140 1,680 3.590 3,590 3,590 3,590 3,590 3,590 3,590 3,590 3,590 43,080 Total Expenses 3,590 3,590 3,590 10.00 Net Income From Operations 10090.00 2090.00 1090.00 910.00 1910.00 4910.00 5910.00 7910.00 10910.00 7090 00 1090.00 90.00

Net Income (Loss) 10090.00 7090.00 2090.00 1090.00 1090.00 90.00 910.00 1910.00 4910.00 5910.00 7910.00 10910.00

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10.00

CITY OF HIGHLAND PARK



Hubert Yopp, Mayor Department of Community & Economic Development

Highland Park Construction Board of Appeals Appointees

- 1. Aubin Williams
- 2. Mike Curis
- 3. Antar Rageh
- 4. Nathan Harvey
- 5. Vacant Appointment Acceptance Pending

Robert B. Blackwell Municipal Building 12050 Woodward Avenue Highland Park, Michigan 48203 313-252-0050 ext. 240 313-852-7320 fax

BUILDING PERMIT APPLICATION

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MICHIGAN 48203 (313) 252-7320

	OFFICE USE ONLY
Permit # _	
Issue Date:	

Issued By:

PERMIT TYPI	E: BUILDING	CLASS: RESIDENTIAL	CATEGORY: NEW
	MOVING	COMMERCIAL	REMODEL/ADDITION
CIRCLE ONE	DEMOLITION	MULTI-FAMILY	GARAGE, BARN, SHED
IN EACH	MISC.	INDUSTRIAL	DECK
COLUMN		OTHER	RE-ROOF
		RENEWAL	REPL. WINDOWS
		PRE-APPROVED	OTHER

ALL BLANKS MUST BE FILLED IN - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

PROPERTY ADDRESS & I	NFORMATION		
STREET NUMBER	STREET NAME		LOT NUMBER
41			
PROPERTY TAX I.D. # (Example 41-000-00-0000-000)		SUBDIVISION	
All notices are sent by e-mail	. E-mail address:	Print clearly	

FIRST NAME	LAST NAME		BUSINESS NAME	
STREET ADDRESS			()	
CITY	STATE	ZIP	() FAX NUMBER	

NOTE: ALL RESIDENTIAL CONTRACTORS MUST REGISTER WITH THE CITY ON A SEPARATE FORM

t:		
LAST OR BUSINESS NAME	STREET ADDRESS	
STATE ZIP	() PHONE NUMBER	
	LAST OR BUSINESS NAME	LAST OR BUSINESS NAME STREET ADDRESS

ALL REQUESTED INFORMATION MUST BE PROVIDED - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

FILL IN <u>ONE</u> OF THE NEXT TWO BOXES BELOW COMPLETELY DEPENDING ON THE TYPE OF CONSTRUCTION

IND TWO FAMILY CONSTRUCT	CTION: (NEW/REM	NODEL/ADDITIONS)
		DING DRIVEWAYS ETC. BUT
INCLUDI	NG ALL FINISHED B.	
# BATHROOMS: FULL	HALF	# STORIES
NEW EXISTING	_	
FINISH	GRADE ELEVATION:	
	(INCLUE NO LAN (INCLUD INCLUDI AND BOM # BATHROOMS: FULL NEW EXISTING	NO LAND VALUE)(INCLUDE ALL HABITABLE # INCLUDING ALL FINISHED B. AND BONUS ROOMS) # BATHROOMS: FULL HALF NEW EXISTING

CONSTRUCTION COST:	(INCLUDE ALL COSTS EXCEPT FIXTURES AND SITE IMPROVEMENTS)
SQUARE FOOTAGE:	(TOTAL AREA USING OUTSIDE DIMENSIONS)
MBC USE GROUP(S)	MBC CONSTRUCTION TYPE:
SPRINKLER SYSTEM TYPE:	MEZZANINE: YES NO IF YES AREA IS
SPECIFIC USE(S) OF STRUCTURE:	
# OF FIRE AREAS:	
HAS KNOX BOX BEEN ORDERED? YES NO	IS SPECIAL INSPECTION LIST ATTACHED? YES NO

ARCHITECT: (IF	APPLICABLE)			
FIRST NAME	LAST OR BUSINESS NAME	NUMBER	STREET NAME	
CITY	STATE ZIP	() NUMBER	
() FACSIMILE NUMBER	(REQUIRED)			

ALL SUBMISSIONS MUST INCLUDE TWO COPIES OF THE CONSTRUCTION DOCUMENTS. ONE COPY MUST BE A FULL SIZE COPY (24 X 36 MAXIMUM) TO SCALE AND THE OTHER MUST BE NO LARGER THAN 11 X 17 INCHES. ALL REDUCED COPIES MUST BE FULLY LEGIBLE. REVERSED TEXT DRAWINGS WILL NOT BE ACCEPTED.

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DESCRIBE IN DETAIL THE SCOPE OF THE	E WORK		
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PERMITS ARE NOT TRANSFERABLE AS TO PERSON OR PLACE AND ARE NOT REFUNDABLE. ISSUANCE OF A PERMIT DOES NOT GUARANTEE COMPLIANCE WITH ANY BUILDING OR OTHER CODE. HOMEOWNERS MUST COMPLETE WORK THEMSELVES OR HIRE LICENSED CONTRACTIORS. COMPLETED WORK MUST BE INSPECTED IMMEDIATELY. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS AND PAYMENT OF FEES. IF WORK IS STARTED BEFORE A PERMIT IS <u>ISSUED</u> AN ADDITIONAL INVESTIGATIVE FEE WILL BE ASSESSED.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT 230 OF THE PUBLIC ACTS OF 1972, BEING SECTION 125.15321 OF THE MICHIGAN COMPILED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THE STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.

APPLICANT SIGNATURE: I HAVE READ AND UNDERSTAND THE CONDITIONS LISTED ABOVE

APPLICANT'S SIGNATURE (SEE AFFADAVIT BELOW)

DATE

IF THE APPLICANT IS NOT THE OWNER, THE AFFIDAVIT BELOW MUST BE COMPLETED BY THE APPLICANT.

NON-OWNER APPLICANT AFFIDAVIT

NAME OF APPLICANT

HEREBY CERTIFY THAT THE PROPOSED WORK IS

AUTHORIZED BY THE OWNER OF RECORD AND THAT I HAVE BEEN AUTHORIZED BY THE OWNER,

PRINTED OWNER(S) NAME(S)

OF _____OWNER'S ADDRESS

FOR THE PURPOSE OF APPLYING FOR, AND OBTAINING, THE PERMIT HEREIN REQUESTED.

WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. ALL INFORMATION SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

APPLICANT'S SIGNATURE

L

DATE

OFFICE USE ONLY

	FEES:	PAID:
Administrative Fee:		
Permit Fee:		
Bond:		
Bond Number:		
Plan Review Fee:		
Eng. Plot Plan Fee:		
Contractor Registration:		
Occupancy Fee:		
Investigative Fee:		
Other:		
TOTAL:		

REV 11/15

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 852-0050

STATEMENT OF POLICIES, REQUIREMENTS AND REGULATIONS AS OF APRIL, 2017

This document contains the general polices, requirements and regulations of the City of Highland Park Building Division as they pertain to the review, issuance and/or inspection of site plans, building and trade permits, code inspections, and certificates of occupancy. It is not intended to be all inclusive and is subject to change at any time without notice.

PERMITS:

To obtain permits from this department may require any or all of the following material.

- 1. Approved Site Plan
- 2. Construction Drawings
- 3. Building, Electrical, Mechanical or Plumbing License
- 4. For County/State roads driveway (ROW) permit (from WCRC or MDOT)
- 5. Soil Erosion Permit or waiver
- 6. Plan approval from the Wayne County Health Department or the Department of Agriculture
- 7. Payment of Required Fees

Requirements for these items are as follows:

1. SITE PLANS

A. Single Family Residential Construction

A site plan of the parcel or lot is required for all new residential construction and for all other residential construction which involves an addition to, or a change in, the number, size or shape of any structure(s). Structures include such things as accessory structures, pools and garages in addition to houses. The site plan <u>must</u> show the following:

1. STANDARD DRAFTING REQUIREMENTS

- a. North arrow
- b. Graphic Scale
- c. Lot dimensions, bearings or interior angles
- d. Legal description
- e. Legend

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2. EXISTING CONDITIONS

- All structures, houses, garages, driveways, sheds, etc., on site (if any) and off-site within 50 feet.
- All utilities, based on field observations and city records, on site or adjacent thereto.
- c. Existing street catch basins with dimensional tie to the nearest property line.
- d. Ground elevations taken approximately on a one (1) foot contour:
 - on site
 - 2) at finish grade (F.G.) of adjacent houses, garages, driveways
 - 50 foot off-site in all directions including back of sidewalk, top of curb and gutter and along the rear lot line (extended) and along the front lot line (extended)
- e. Bench Mark near the site, with an elevation related to the U.S.G.S. Datum.

3. PROPOSED CONDITIONS

f.

- a. Location and dimensions (size) of new house, garage, and driveway.
- b. Drainage pattern by arrows.
- c. Location of connections and leads for the water service and sanitary sewer.
- d. Proposed Elevations:
 - finish floor and bottom of footing
 - 2) finish grade (brick ledge) of proposed house
 - 3) every 50 feet along all property lines including the lot corners
 - all driveway corners and at the two points along the front setback line
 - 5) finish grade of proposed garage slab
 - 6) threshold elevation of any side door opening to a driveway.
- e. Location and dimensions of all easements on the property.
 - Method of discharge, and the location and type, of all underground piping for the sump pump and ground water. The following methods of discharge for ground water and sump pumps may be approved as noted.
 - Connection to a storm structure or storm sewer. This is the preferred method and will be required unless the applicant can demonstrate that using this method is a severe economic hardship or a practical difficulty.
 - 2) On site discharge into a swale. The applicant must furnish soil and engineering information to prove the swale can contain, and dissipate, the discharge within the site. Unobstructed point discharge (sump discharge) into, or onto, public sidewalks or other public right-of-way shall not be permitted.
 - 3) In the case where discharge can not be accomplished by the above methods, and the property is serviced by a combined sewer system, the applicant may request discharge into the combined sewer line pursuant to the provisions of the Michigan Plumbing Code. This is considered a last resort method. A sump pump

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installation shall be required in all such cases to facilitate discharge to the exterior of the structure in an emergency.

All underground storm or ground water piping serving more than one parcel shall be in recorded easements.

Photocopier enlargements of subdivision site plans or plats will not be accepted. Residential site plans may be a maximum of 11×17 inches. Others must provide one copy reduced to 11×17 along with the required sets to scale.

B. Commercial, Multi-family, and Industrial Construction

New commercial, multi-family or industrial construction requires site plan approval by the City of Highland Park Planning Commission. Additionally, any construction which involves an addition to, or a change in, the number, size or shape of any structure or landscaping also requires review of the amended site plan by the Commission. No permits will be issued until the site plan review is complete and signed copies of the approved or amended plan are received from the Commission.

2. CONSTRUCTION DRAWINGS

Complete drawings, including an electrical layout plan are required for all buildings and structures. Complete electrical, mechanical and plumbing plans are required on all plans except one and two family residential. One and two family residential plans under thirty-five hundred (3500) square feet may be submitted by a currently licensed Michigan Residential Builder or a qualified homeowner. All other drawings must bear the countersigned seal of a Michigan registered architect or engineer. **At least one set of drawings must be submitted in a format no larger than 11 x 17 inches.** 11 X 17 drawings which are reduced from larger drawings must contain a graphic scale usable on the reduced drawing and must be legible. Reverse layout plans with reversed text will not be accepted.

3. BUILDING, ELECTRICAL, MECHANICAL OR PLUMBING LICENSE

Any contractor making application for a permit must be licensed in the trade for which the permit is requested with the following exceptions:

- A. Commercial building permits (requires sealed plans).
- B. Qualified homeowners.

All residential builders, maintenance and alteration, demolition and moving contractors, electrical contractors, mechanical contractors, plumbing contractors, fire protection contractors, alarm contractors, sign electrical contractors and mobile home installers must register with the City prior to applying for permits. Initial registration requires the license holder to appear in person.

4. CONCRETE PERMITS

New or replacement exterior concrete placement requires a concrete permit. This permit is for the purpose of checking grades and drainage after forming. We do not inspect the flatwork concrete itself on private property.

3

5. FEES

All permit fees are established by resolution of the City Council. The current fee schedule is available from the Community Development Department.

6. INSPECTIONS:

The City of Highland Park provides inspection services through its Building Department for all required inspections except those requiring a licensed professional (surveyor or engineer). Services are provided by State registered inspectors. All inspections are scheduled by the City of Highland Park Building Division at (313) 252-0050.

Inspections must be requested one day in advance. Late requests will be honored only if the workload permits. Inspections are done Monday through Friday between 9:30 AM and 3:30 PM. (Note: Schedule may vary due to workload and inspector availability.)

We can not guarantee an inspection time.

All inspections which do not pass will require payment of a re-inspection fee. This includes lock-outs and missed appointments. Fees must be received prior to re-scheduling the inspection. Inspection fee schedules and required inspection lists are available from this Department.

Cancellations must be received before 9:00 AM the day of the inspection or a re-inspection fee may be charged. Inspections canceled or rescheduled more than once may be subject to a re-inspection fee.

7. CERTIFICATES OF OCCUPANCY:

A certificate of occupancy must be obtained prior to occupying the following for any reason:

- Any new structure.
- 2. A new addition to any structure.
- 3. Any structure which has had a change of use under the building code.
- All business uses.

Commercial certificates of occupancy for new construction must be requested 10 working days in advance. Single family residential certificates require 5 working days notice. The site must meet the minimum requirements set forth in the Ordinances of the City of Highland Park. Temporary certificates will be issued for a maximum of 90 days only in the following circumstances:

- 1. Construction or site completion is delayed more than seven (7) days by weather.
- Site completion, such as landscaping, can not be completed do to City regulations or seasonal conditions.
- Other unusual circumstances at the sole discretion of the Department.

Temporary certificates will not be issued due to construction delays, closing schedules, or poor planning on the part of the builder or purchaser.

8. OTHER DEPARTMENT POLICIES:

Building Division Policies - April 2017

- A. Except where accomplished by a rated unit, no access opening shall be permitted in any required fire separation assembly, and all electric boxes and other similar devices in the surface of such assemblies shall be 2 hr. rated.
- B. All water services must conform to the approved water service installation policy.
- C. On all construction sites the property lines must be identified and verifiable at all times during construction.



City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203 (313) 252-0050

CONTRACTOR REGISTRATION FORM

If the Federal I.D. number provided is a Social Security number, pursuant to the Michigan Social Security Number Privacy Act, this document contains CONFIDENTIAL INFORMATION

Business Name:	
Address:	T 1 1 1
	Cell Phone #:
Federal I.D. #:	Fax #:
Contractor License #:	
E-mail:	
	nption):
MESC Employer # (Self Employed):	<pre>with the following names will be allowed to obtain permits):</pre>
MESC Employer # (Self Employed): FOR <u>BUILDING</u> & Authorized Signatures – <u>please print</u> (only the cont	& <u>SIGN</u> CONTRACTORS ONLY:
MESC Employer # (Self Employed): FOR <u>BUILDING</u> & Authorized Signatures – <u>please print</u> (only the cont FOR <u>ELECTRICAL</u> , <u>PLUMBING</u> ,	& <u>SIGN</u> CONTRACTORS ONLY: tractor and the following names will be allowed to obtain permits):

1, the undersigned, hereby certify that the information herein is true and correct to the best of my knowledge.

Signature of Contractor: _____ Date: ____/ / / Has appeared in person or has signed this letter in front of a Notary Public whose signature and seal is affixed hereto.

O	ffice Use Onl
Reg. #	
Expires:/	
Licenses Verifi	ed 🗌
Initials:	Date:

day of	, in the year
	, Notary Public
	Printed Name
	County, Michigan
Acting in	County, Michigan

1

My commission expires: _

Did you remember to include:

Copy of licensee's (contractor) driver's license.
 Current contractor's license, and current master

- Current contractor's license, and current masters or specialist license for electrical, plumbing and sign specialists. Copy of qualifying officer's license for LLC's, Corporations and Partnerships.
- Registration fee from reverse side.
- □ Signature of licensee (contractor) on this form (must be notarized if form is not being submitted in person).

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 852-0050

(313) 032-0

FOR OFFICE USE ONLY
PERMIT #: _____

DATE ISSUED: _

BY:

ELECTRIC	AL PERM	IT APPLIC	CATION

JOB ADDRESS:			
OWNER'S NAME:	PHONE:	FAX:	
OWNER'S ADDRESS:	CITY:	ZIP:	
APPLICANT:	PHONE:	FAX:	
APPLICANT'S ADDRESS:	CITY:	ZIP:	

E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)	FOR OFFICE USE ONL	Y
Required	Administrative Fee	\$50.00	\$50.00	FEES P	AID
	Temporary Service	\$75.00		Permit:	
	Permanent Service	\$75.00		Registration:	
	Underground Inspection	\$75.00		Investigative Fee:	
	Rough Inspection	\$75.00		Other:	
	Final Inspection	\$75.00		TOTAL:	
	Other	\$75.00			
	TOTAL FEES:			Code Official Approval:	
				Date approved for issue:	

DESCRIPTION OF WORK:

PLAN REVIEW: Plan review is required when the building exceeds 3,500 square feet or the service exceeds 400 amperes. Required plans shall be prepared under the direct supervision of a **qualified** architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

NO

HAVE PLANS BEEN SUBMITTED?

BMITTED? YES

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines. By signing this application I consent to receiving notices by e-mail.

HOMEOWNER AFFIDAVIT: I hereby certify the work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the electrical code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Inspector. I will cooperate with the Inspector and assume the responsibility to arrange for necessary inspections.

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:

APPLICANT'S SIGNATURE

DATE

FEE INFORMATION ON REVERSE SIDE

1.0 ELECTRICAL PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any electrical permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$30.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.4 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.5 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.1 Electrical: Single-Family Residential

For new construction a minimum of three inspections are required, a service, rough and final inspection. An additional inspection shall be required if temporary service is provided.

Remodels shall require a minimum of two inspections, a rough and a final. For all other types or work of this class, inspections shall be required for each visit required from the electrical inspector.

3.2 Electrical: Multiple-Family, Commercial, Industrial

For a multiple-family structure or multi-tenant commercial or industrial building, a minimum of two inspections, a rough and a final, shall be required for each designed unit in such a structure. An inspection shall also be required for the building service.

For all other buildings of this class, inspections shall be required for each visit required from the electrical inspector. The inspector shall estimate the number of visits required.

A separate inspection shall be required for temporary service.

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 852-0050

10,002-000

FOR OFFICE USE	ONLY
PERMIT #:	
DATE ISSUED:	

BY:

MECHANICAL PERMIT APPLICATION

JOB ADDRESS:			
OWNER'S NAME:	PHONE	FAX:	
OWNER'S ADDRESS:	CITY:	ZIP:	
APPLICANT:	PHONE:	FAX:	
APPLICANT'S ADDRESS:	CITY:	ZIP:	

Check here to receive Notices of Repair by e-mail . E-mail address:_

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)	
Required	Administrative Fee	\$50.00	\$50.00	
	Rough Heat	\$75.00		
	Final Heat	\$75.00		
	Residential Air Conditioning	\$75.00		
	Commercial Heat or Air (One inspection per unit)	\$75.00		
	Refrigeration	\$75.00		
	Gas Line	\$75.00		
	Fire Suppression	\$75.00		
	Other			
	TOTAL FEES:			

FOR OFFICE US	SE ONLY
FEES	PAID
Permit:	_
Registration:	-
Investigative Fee:	
Other:	
TOTAL:	_
Code Official Approval:	
Date approved for issue:	

DESCRIPTION OF WORK: _

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet or for alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a **qualified** architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

NO NO

HAVE	-	DEEN	CUDMITTEDO
HAVE	FLAND	DEEN	SUBMITTED?

MITTED? YES

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:

APPLICANT'S SIGNATURE

DATE

FEE INFORMATION ON REVERSE SIDE

1.0 MECHANICAL PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any mechanical permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$35.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00 for mechanical (all categories).
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

- 3.3 Mechanical: Single-Family Residential
 - For new construction a minimum of three inspections, a rough, final, and gas line inspection shall be required for each heating system. A separate inspection shall be required for each cooling system. A heating or cooling unit without a distribution system shall require one inspection.

Remodels shall require a minimum of a rough and final inspection. For all other types or work of this class, inspections shall be required for each visit required from the mechanical inspector.

- Pre-fab fireplaces shall require a minimum of one inspection per dwelling unit. Multiple fireplaces in the same dwelling unit, and inspected on the same visit, shall require one inspection. Units may also require a gas line inspection.
- 3.4 Mechanical: Multiple-Family, Commercial, Industrial

Each heating and/or cooling unit shall require one inspection. Each multi-family dwelling unit shall require a rough and final. Installation or modification of any distribution system not involving the associated heating/cooling unit shall require one inspection. Where an underground inspection(s) is required, an additional inspection shall be charged per visit. Gas lines require an additional inspection per system.

Refrigeration units of one horse-power or greater shall require one inspection per unit.

Concealed piping shall require an additional inspection per system.

FOR OFFICE USE ONLY

PERMIT #: _____ DATE ISSUED: ___

BY: _____

PLUMBING PERMIT APPLICATION

JOB ADDRESS:			
OWNER'S NAME:	PHONE:	FAX:	
OWNER'S ADDRESS:	CITY:	ZIP:	,
APPLICANT:	PHONE:	FAX:	
APPLICANT'S ADDRESS:	CITY:	ZIP:	

Check here to receive Notices of Repair by or e-mail . E-mail address:

CITY OF HIGHLAND PARK

BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203

(313) 852-0050

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)	FOR OFFICE USE ONLY
Required	Administrative Fee	\$50.00	\$50.00	FEES PAID
	Water or Sewer Lead or Private Structures (ea.)	\$75.00		Permit:
	Underground Inspection	\$75.00		Registration:
	Rough Inspection	\$75.00		Investigative Fee:
	Final Inspection	\$75.00		Other:
	Other	\$75.00		TOTAL:
	Other			
	TOTAL FEES:			Code Official Approval:
				Date approved for issue:

DESCRIPTION OF WORK:

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet, alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a **qualified** architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

NO NO

HAVE PLANS BEEN SUBMITTED	H	AVE	PL	ANS	BEEN	SUBM	ITTED
---------------------------	---	-----	----	-----	------	------	-------

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

NOT REQUIRED

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:

APPLICANT'S SIGNATURE

DATE

YES

FEE INFORMATION ON REVERSE SIDE

1.0 PLUMBING PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any plumbing permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$30.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00.
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.5 Plumbing: Single-Family Residential

For new construction a underground, rough and final plumbing inspection shall be required.

Remodels shall require a minimum of two inspections, a rough and final. For all other types or work of this class, inspections shall be required for each visit required from the plumbing inspector.

3.6 Plumbing: Multiple-Family, Commercial, Industrial

Each unit in a multiple-family structure or in a multi-tenant structure shall require a rough and a final inspection. A multiple-family structure or other multi-tenant building shall require an additional inspection for underground plumbing at the rate of one inspection per building. An additional inspection shall be required for sewer and water service.

All other commercial and industrial buildings shall be charged at the rate of one inspection for each visit required from the plumbing inspector. The inspector shall estimate the number of visits required.



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

May 11, 2017

Mayor Hubert Yopp City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203

RE: Application to Administer and Enforce Michigan Building, Electrical, Mechanical and Plumbing Codes

Dear Mayor Yopp:

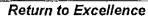
At the April 12, 2017 Construction Code Commission meeting, the Commission postponed consideration of the City of Highland Park's Application to Administer and Enforce to allow time for additional documentation to be provided reflecting the proposed program budget, a construction board of appeals, and applications are brought up to statutory requirements. Attached are excerpts from your application which are highlighted indicating a conflict with 1972 PA 230. If you wish to address the matter at the July 12, 2017 meeting, please provide any supplemental material for your application regarding the discussion from the meeting no later than June 7, 2017.

The July 12, 2017 meeting will be located at 611 West Ottawa Street, Lansing, MI 48933 in the Upper Level Conference Room #4. The public entrance is on the south side of the building. The meeting will begin at 9:30 a.m.

You or your representative are encouraged to attend the meeting. If you have any questions, please contact the Administrative Services Division at (517) 241-9303.

 cc: Ms. Yvette Robinson, Department of Community and Economic Development Director Mr. Jack Williams, Building Official City of Highland Park Clerk BCC Building Division BCC Electrical Division BCC Mechanical Division BCC Plumbing Division BCC Permits and Plan Review Division BCC Licensing and Complaints Division





Hubert Yopp, Mayor Department of Community & Economic Development

March 16, 2017

Bureau of Construction Codes Construction Code Commission P.O. Box 30254 Lansing, MI 48909

RE: Application to Enforce for the City of Highland Park

Dear Commission Members,

Late in 2016 the City of Highland Park filed an application to enforce the building codes in the City. Currently those services are being provided by the State. The City desires to provide full time local access to building department services for its residents as well as full time inspection and enforcement of the codes throughout the City. It is our belief that full time enforcement is necessary to assure compliance.

The City currently has a contract with SAFEbuilt, Inc. to provide these services. SAFEbuilt is currently providing housing and business license inspections and is ready to provide full building department services upon State approval. All inspection personnel are full time employees and are registered with the State under Act 54.

The contract with SAFEbuilt provides for SAFEbuilt to receive seventy-five percent of the permit revenue with the City retaining the remaining twenty-five percent. SAFEbuilt will provide inspection staff, back-up permit techs, vehicles, phones, field computers, forms and equipment; the City will provide office space, one permit tech and office computers and some office equipment. All records will be maintained at the Highland Park City Hall. A formal budget has not been established because we were unable to get permit revenue information from the State. A fee resolution has been adopted by the City Council and any future changes will also be done by resolution of City Council.

Based on SAFEbuilt's experience is anticipated that plan reviews will average three days for residential plans and ten days for commercial/industrial plans. Codes and standards commonly used in the local plan review process will be kept at Highland Park Building Department office and will be available for the public. SAFEbuilt is a national company and through its many offices and locations has access to the remaining standards.

A Board of Review has not yet been established and finding members is extremely problematic as discussed at the January Board meeting. We will continue to pursue this issue. We are aware, per the Director at the January meeting, that we can use the State Board as the CBA in the interim should it become necessary.

Robert B. Blackwell Municipal Building 12050 Woodward Avenue Highland Park, Michigan 48203 313-252-0050 ext. 240 313-852-7320 fax

BUILDING PERMIT APPLICATION

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MICHIGAN 48203 (313) 252-0050 ext. 209

	OFFICE U	SE ONLY
Permit # _		
Issue Date:		
Issued By:		

PERMIT TYPE	BUILDING	CLASS: RESIDENTIAL	CATEGORY: NEW
	MOVING	COMMERCIAL	REMODEL/ADDITION
CIRCLE ONE	DEMOLITION	MULTI-FAMILY	GARAGE, BARN, SHED
IN EACH	MISC.	INDUSTRIAL	DECK
COLUMN		OTHER	RE-ROOF
		RENEWAL	REPL. WINDOWS
		PRE-APPROVED	OTHER

ALL BLANKS MUST BE FILLED IN - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

PROPERTY ADDRESS & INFORMATION					
STREET NUMBER	STREET NAME		LOT NUMBER		
41					
PROPERTY TAX I.D. # (Example 41-000-00-0000-000)		SUBDIVISION			

All notices are sent by e-mail. E-mail address: _

Print clearly

APPLICANT INFORM	MATION:			
FIRST NAME	LAST NAME		BUSINESS NAME	
STREET ADDRESS		· · · · · · · · · · · · · · · · · · ·)	
СПТҮ	STATE	ZIP		

NOTE: ALL RESIDENTIAL CONTRACTORS MUST REGISTER WITH THE CITY ON A SEPARATE FORM

PROPERTY OWN	ER:		
FIRST NAME	LAST OR BUSINESS NAME	STREET ADDRESS	·
СІТҮ	STATE ZIP	()PHONE NUMBER	
DRIVER'S LICENSE	NUMBER	DATE OF BIRTH	

ALL REQUESTED INFORMATION MUST BE PROVIDED - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

DESCRIBE IN DETAIL THE SCOPE OF THE	WORK		
DESCRIDE IN DETAIL THE SCOLE OF THE			
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4			

PERMITS ARE NOT TRANSFERABLE AS TO PERSON OR PLACE AND ARE NOT REFUNDABLE. ISSUANCE OF A PERMIT DOES NOT GUARANTEE COMPLIANCE WITH ANY BUILDING OR OTHER CODE. HOMEOWNERS MUST COMPLETE WORK THEMSELVES OR HIRE LICENSED CONTRACTIORS. COMPLETED WORK MUST BE INSPECTED IMMEDIATELY. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS AND PAYMENT OF FEES. IF WORK IS STARTED BEFORE A PERMIT IS <u>ISSUED</u> AN ADDITIONAL INVESTIGATIVE FEE WILL BE ASSESSED.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT 230 OF THE PUBLIC ACTS OF 1972, BEING SECTION 125.15321 OF THE MICHIGAN COMPILED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THE STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.

APPLICANT SIGNATURE: I HAVE READ AND UNDERSTAND THE CONDITIONS LISTED ABOVE

APPLICANT'S SIGNATURE (SEE AFFADAVIT BELOW)

DATE

IF THE APPLICANT IS NOT THE OWNER, THE AFFIDAVIT BELOW MUST BE COMPLETED BY THE APPLICANT. PROVIDE A COPY OF THE SIGNED CONTRACT. RESIDENTIAL CONTRACTS MUST BE IN THE NAME SHOWN ON THE RESIDENTIAL BUILDER'S OR MAINTENANCE AND ALTERATION CONTRACTOR'S LICENSE.

NON-OWNER APPLICANT AFF	IDAVIT
-------------------------	--------

HEREBY CERTIFY THAT THE PROPOSED WORK IS
NAME OF APPLICANT

AUTHORIZED BY THE OWNER OF RECORD AND THAT I HAVE BEEN AUTHORIZED BY THE OWNER,

OF

RINTED	OWNER(S)	NAME(S)

OWNER'S ADDRESS

TO ACT AS HIS/HER/THEIR AUTHORIZED AGENT FOR THE PURPOSE OF APPLYING FOR, AND OBTAINING, THE PERMIT HEREIN REQUESTED.

WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. ALL INFORMATION SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

APPLICANT'S SIGNATURE

All underground storm or ground water piping serving more than one parcel shall be in recorded easements.

<u>Photocopier enlargements of subdivision site plans or plats will not be accepted.</u> Residential site plans may be a maximum of 11×17 inches. Others must provide one copy reduced to 11×17 along with the required sets to scale.

B. Commercial, Multi-family, and Industrial Construction

New commercial, multi-family or industrial construction requires site plan approval by the City of Highland Park Planning Commission. Additionally, any construction which involves an addition to, or a change in, the number, size or shape of any structure or landscaping also requires review of the amended site plan by the Commission. No permits will be issued until the site plan review is complete and signed copies of the approved or amended plan are received from the Commission.

2. CONSTRUCTION DRAWINGS

Complete drawings, including an electrical layout plan are required for all buildings and structures. Complete electrical, mechanical and plumbing plans are required on all plans except one and two family residential. One and two family residential plans under thirty-five hundred (3500) square feet may be submitted by a currently licensed Michigan Residential Builder or a qualified homeowner. All other drawings must bear the countersigned seal of a Michigan registered architect or engineer. For all projects the original plan(s), DRAWN TO SCALE, shall be a maximum of 24 x 36 inch format. At least one set of drawings must be submitted in a format no larger than 11 x 17 inches. 11 X 17 drawings which are reduced from larger drawings must contain a graphic scale usable on the reduced drawing and must be legible. Drawings larger than 24 x 36 inches will not be accepted. Reverse layout plans with reversed text will not be accepted.

3. BUILDING, ELECTRICAL, MECHANICAL OR PLUMBING LICENSE

Any contractor making application for a permit must be licensed in the trade for which the permit is requested with the following exceptions:

- A. Commercial building permits (requires sealed plans).
- B. <u>Qualified</u> homeowners.

All residential builders, maintenance and alteration, demolition and moving contractors, electrical contractors, mechanical contractors, plumbing contractors, fire protection contractors, alarm contractors, sign electrical contractors and mobile home installers must register with the City prior to applying for permits. Initial registration requires the license holder to appear in person. All persons registering must present their license, federal identification number, workman's compensation carrier, and M.E.S.C. number and pay a registration fee. All contractors' vehicles must have identifying signs on the vehicle.

4. CONCRETE PERMITS

New or replacement exterior concrete placement requires a concrete permit. This permit is for the purpose of checking grades and drainage after forming. We do not inspect the flatwork concrete itself on private property. City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203 (313) 252-0050

CONTRACTOR REGISTRATION FORM

If the Federal I.D. number provided is a Social Security number, pursuant to the Michigan Social Security Number Privacy Act, this document contains CONFIDENTIAL INFORMATION

Business Name:			
Business Owner or Qualifying Officer:	· · · · · · · · · · · · · · · · · · ·		
Address:	Telephone #:		
	Cell Phone #:		
Federal I.D. #:	Fax #:		
ontractor License #: Expiration date:			
E-mail:			
FOR <u>BUILD</u> Authorized Signatures – <u>please print</u> (only the	ING & <u>SIGN</u> CONTRACTORS ONLY: e contractor and the following names will be allowed to obtain permits):		
	PLUMBING & SIGN CONTRACTORS ONLY:		
Master/Specialist authorized to obtain permits	s - <u>please print</u> (copy of master's/specialist's license(s) must be attached)		
Name:			
	igan licensing regulations allow only licensed Electrical/Plumbing ized Master to obtain Electrical/Plumbing permits,		

I, the undersigned, hereby certify that the information herein is true and correct to the best of my knowledge.

Signature of Contractor:	Date://	
Has appeared in person or has signed th	is letter in front of a Notary Public who	se signature and seal is affixed hereto
	Subscribed and sw	orn to me on this
Office Use Only:	day of	, in the year
Reg. #		, Notary Public
Expires://		Printed Name
Licenses Verified Initials: Date:	·	County, Michigan
	Acting in	County, Michigan
	My commission expires:	

Did you remember to include:

Copy of licensee's (contractor) driver's license.

- Current contractor's license, and current masters or specialist license for electrical, plumbing and sign specialists. Copy of qualifying officer's license for LLC's, Corporations and Partnerships.
- □ Registration fee from reverse side.
- □ Signature of licensee (contractor) on this form (must be notarized if form is not being submitted in person).

1.0 ELECTRICAL PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any electrical permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$30.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00 for electrical (all categories).
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.1 Electrical: Single-Family Residential

For new construction a minimum of three inspections are required, a service, rough and final inspection. An additional inspection shall be required if temporary service is provided.

Remodels shall require a minimum of two inspections, a rough and a final. For all other types or work of this class, inspections shall be required for each visit required from the electrical inspector.

3.2 Electrical: Multiple-Family, Commercial, Industrial

For a multiple-family structure or multi-tenant commercial or industrial building, a minimum of two inspections, a rough and a final, shall be required for each designed unit in such a structure. An inspection shall also be required for the building service.

For all other buildings of this class, inspections shall be required for each visit required from the electrical inspector. The inspector shall estimate the number of visits required.

A separate inspection shall be required for temporary service.

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 252-0050 ext. 209

FOR OFFICE USE ONLY PERMIT #: _____

DATE ISSUED:

BY:

MECHANICAL PERMIT APPLICATION

JOB ADDRESS:	;	
OWNER'S NAME:	PHONE:	_FAX:
OWNER'S ADDRESS:	CITY:	ZIP:
APPLICANT:	PHONE:	_FAX:
APPLICANT'S ADDRESS:	CITY:	ZIP:

Check here to receive Notices of Repair by De-mail D. E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)
Required	Administrative Fee	\$50.00	\$50.00
	Rough Heat	\$75.00	
	Final Heat	\$75.00	
	Residential Air Conditioning	\$75.00	
	Commercial Heat or Air (One inspection per unit)	\$75.00	
	Refrigeration	\$75.00	
	Gas Line	\$75.00	
	Fire Suppression	\$75.00	yn Marael I
	Other		
	TOTAL FEES:		

FOR OFFICE USE ONLY		
	<u>FEES</u>	PAID
Permit:		
Registration	n:	
Investigativ	e Fee:	.
Other:		.
TOTAL:		
Code Official Ap	proval:	
Date approved f	or issue:	

DESCRIPTION OF WORK:

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet or for alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a qualified architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

HAVE PLANS BEEN SUBMITTED?

YES

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:			
APPLICANT'S SIGNATURE	DATE	DRIVER'S LICENSE NUMBER	DATE OF BIRTH
FEE INFORMATION ON REVERSE SIDE			

CITY OF HIGHLAND PARK	
BUILDING DEPARTMENT	
12050 WOODWARD AVE. HIGHLAND PARK, MI	48203
(313) 852-0050 ext. 209	

FOR OFFICE USE ONLY

PERMIT #: _____

DATE ISSUED: _____

BY: _____

ĩ

PLUMBING PERMIT APPLICATION

JOB ADDRESS:		
OWNER'S NAME:	PHONE:	_FAX:
OWNER'S ADDRESS:	CITY:	ZIP:
APPLICANT:	PHONE:	.FAX:
APPLICANT'S ADDRESS:	CITY:	ZIP:

Check here to receive Notices of Repair by
or e-mail
. E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)	
Required	Administrative Fee	\$50.00	\$50.00	
	Water or Sewer Lead or Private Structures (ea.)	\$75.00		F
	Underground Inspection	\$75.00		F
	Rough Inspection	\$75.00		1
	Final Inspection	\$75.00		(
	Other	\$75.00		-
	Other			
	TOTAL FEES:			6

FOR OFFICE USE ONLY				
	FEES	PAID		
Permit:		<u>`</u>		
Registration:		.		
Investigative	Fee:			
Other:		. <u> </u>		
TOTAL:				
Code Official Approval:				
Date approved for issue:				

DESCRIPTION OF WORK: _____

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet, alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a qualified architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

HAVE PLANS BEEN SUBMITTED?

	YES
--	-----

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

I HAVE READ AND UNDERSTAND THE	ABOVE PROVISIONS:
--------------------------------	-------------------

APPLICANT'S SIGNATURE

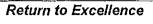
DATE

DRIVER'S LICENSE NUMBER

DATE OF BIRTH

FEE INFORMATION ON REVERSE SIDE





Hubert Yopp, Mayor Department of Community & Economic Development

March 16, 2017

Bureau of Construction Codes Construction Code Commission P.O. Box 30254 Lansing, MI 48909

RE: Application to Enforce for the City of Highland Park

Dear Commission Members,

Late in 2016 the City of Highland Park filed an application to enforce the building codes in the City. Currently those services are being provided by the State. The City desires to provide full time local access to building department services for its residents as well as full time inspection and enforcement of the codes throughout the City. It is our belief that full time enforcement is necessary to assure compliance.

The City currently has a contract with SAFEbuilt, Inc. to provide these services. SAFEbuilt is currently providing housing and business license inspections and is ready to provide full building department services upon State approval. All inspection personnel are full time employees and are registered with the State under Act 54.

The contract with SAFEbuilt provides for SAFEbuilt to receive seventy-five percent of the permit revenue with the City retaining the remaining twenty-five percent. SAFEbuilt will provide inspection staff, back-up permit techs, vehicles, phones, field computers, forms and equipment; the City will provide office space, one permit tech and office computers and some office equipment. All records will be maintained at the Highland Park City Hall. A formal budget has not been established because we were unable to get permit revenue information from the State. A fee resolution has been adopted by the City Council and any future changes will also be done by resolution of City Council.

Based on SAFEbuilt's experience is anticipated that plan reviews will average three days for residential plans and ten days for commercial/industrial plans. Codes and standards commonly used in the local plan review process will be kept at Highland Park Building Department office and will be available for the public. SAFEbuilt is a national company and through its many offices and locations has access to the remaining standards.

A Board of Review has not yet been established and finding members is extremely problematic as discussed at the January Board meeting. We will continue to pursue this issue. We are aware, per the Director at the January meeting, that we can use the State Board as the CBA in the interim should it become necessary.

Robert B. Blackwell Municipal Building 12050 Woodward Avenue Highland Park, Michigan 48203 313-252-0050 ext. 240 313-852-7320 fax



CITY OF HIGHLAND PARK

Return to Excellence

Hubert Yopp, Mayor Department of Community & Economic Development

We look forward to a decision at the April 12, 2017 meeting. Should you have any questions or concerns prior to that meeting, please contact me at <u>YRobinson@HighlandParkCity.org</u> or 313-252-0050 ext. 257.

Sincerely,

Yvette L. Robinson, Director Department of Community & Economic Development

The following are attached:

Public documents: Permit forms, Policy document, Occupancy certificate, Stop order, Violation notice, etc., Adopted fee resolution and ordinance.

Robert B. Blackwell Municipal Building 12050 Woodward Avenue Highland Park, Michigan 48203 313-252-0050 ext. 240 313-852-7320 fax

BUILDING PERMIT APPLICATION

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MICHIGAN 48203 (313) 252-0050 ext. 209

	OFFICE US	SE ONLY
Permit # _	· ·	
Issue Date:		
Issued By:		

PERMIT TYPE	: BUILDING	CLASS: RESIDENTIAL	CATEGORY: NEW
	MOVING	COMMERCIAL	REMODEL/ADDITION
CIRCLE ONE	DEMOLITION	MULTI-FAMILY	GARAGE, BARN, SHED
IN EACH	MISC.	INDUSTRIAL	DECK
COLUMN		OTHER	RE-ROOF
		RENEWAL	REPL. WINDOWS
		PRE-APPROVED	OTHER

ALL BLANKS MUST BE FILLED IN - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

PROPERTY ADDRESS & INFORMATION				
STREET NUMBER	STREET NAME		LOT NUMBER	
41				
PROPERTY TAX I.D. # (Example 41-000-00-0000-000)		SUBDIVISION		

All notices are sent by e-mail. E-mail address: _

Print clearly

APPLICANT INFOR	MATION:			
FIRST NAME	LAST NAME		BUSINESS NAME	
STREET ADDRESS		·	()PHONE NUMBER	
СПҮ	STATE		() FAX NUMBER	

NOTE: ALL RESIDENTIAL CONTRACTORS MUST REGISTER WITH THE CITY ON A SEPARATE FORM

PROPERTY OWN	ER:		
FIRST NAME	LAST OR BUSINESS NAME	STREET ADDRESS	
CITY	STATE ZIP	()PHONE NUMBER	
DRIVER'S LICENSI	E NUMBER	DATE OF BIRTH	

ALL REQUESTED INFORMATION MUST BE PROVIDED - INCOMPLETE APPLICATIONS WILL NOT BE PROCESSED

FILL IN <u>ONE</u> OF THE NEXT TWO BOXES BELOW COMPLETELY DEPENDING ON THE TYPE OF CONSTRUCTION

ALL RESIDENTIAL ONE A	D TWO FAMILY CONSTRUCTION: (NEW/REMC	DDEL/ADDITIONS)
CONSTRUCTION COST:	(INCLUDE ALL COSTS INCLUD NO LAND VALUE)	ING DRIVEWAYS ETC. BUT
SQUARE FOOTAGE:	(INCLUDE ALL HABITABLE AR INCLUDING ALL FINISHED BAS AND BONUS ROOMS)	
# BEDROOMS:	# BATHROOMS: FULL HALF	# STORIES
WATER/SEWER UTILITIES	NEW EXISTING	
FINISH FLOOR ELEVATION:	FINISH GRADE ELEVATION:	

ALL OTHER CONSTRUCTION: COMMERCIAL/INDUSTRIAL/MULTI FAMILY				
CONSTRUCTION COST:	(INCLUDE ALL COSTS EXCEPT FIXTURES AND SITE IMPROVEMENTS)			
SQUARE FOOTAGE:	_ (TOTAL AREA USING OUTSIDE DIMENSIONS)			
MBC USE GROUP(S)	MBC CONSTRUCTION TYPE:			
SPRINKLER SYSTEM TYPE:	MEZZANINE: YES NO IF YES AREA IS			
SPECIFIC USE(S) OF STRUCTURE:				
# OF FIRE AREAS:				
HAS KNOX BOX BEEN ORDERED? YES NO	IS SPECIAL INSPECTION LIST ATTACHED? YES NO			

ARCHITECT: (IF	APPLICABLE)			
FIRST NAME	LAST OR BUSINESS NAME	NUMBER	STREET NAME	
CITY	STATE ZIP	() NUMBER	
() FACSIMILE NUMBER	(REQUIRED)			

ALL SUBMISSIONS MUST INCLUDE TWO COPIES OF THE CONSTRUCTION DOCUMENTS. ONE COPY MUST BE A FULL SIZE COPY (24 X 36 MAXIMUM) TO SCALE AND THE OTHER MUST BE NO LARGER THAN 11 X 17 INCHES. ALL REDUCED COPIES MUST BE FULLY LEGIBLE. REVERSED TEXT DRAWINGS WILL NOT BE ACCEPTED.

DESCRIBE IN DETAIL THE SCOPE OF TH	FWORK		
DEDCHIDE IN DETHIL THE OCCUP OF AND	E WORK		
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4			

PERMITS ARE NOT TRANSFERABLE AS TO PERSON OR PLACE AND ARE NOT REFUNDABLE. ISSUANCE OF A PERMIT DOES NOT GUARANTEE COMPLIANCE WITH ANY BUILDING OR OTHER CODE. HOMEOWNERS MUST COMPLETE WORK THEMSELVES OR HIRE LICENSED CONTRACTIORS. COMPLETED WORK MUST BE INSPECTED IMMEDIATELY. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING PERMITS AND INSPECTIONS AND PAYMENT OF FEES. IF WORK IS STARTED BEFORE A PERMIT IS <u>ISSUED</u> AN ADDITIONAL INVESTIGATIVE FEE WILL BE ASSESSED.

SECTION 23a OF THE STATE CONSTRUCTION CODE ACT OF 1972, ACT 230 OF THE PUBLIC ACTS OF 1972, BEING SECTION 125.15321 OF THE MICHIGAN COMPILED LAWS, PROHIBITS A PERSON FROM CONSPIRING TO CIRCUMVENT THE LICENSING REQUIREMENTS OF THE STATE RELATING TO PERSONS WHO ARE TO PERFORM WORK ON A RESIDENTIAL BUILDING OR A RESIDENTIAL STRUCTURE. VIOLATORS OF SECTION 23a ARE SUBJECT TO CIVIL FINES.

APPLICANT SIGNATURE: I HAVE READ AND UNDERSTAND THE CONDITIONS LISTED ABOVE

APPLICANT'S SIGNATURE (SEE AFFADAVIT BELOW)

DATE

IF THE APPLICANT IS NOT THE OWNER, THE AFFIDAVIT BELOW MUST BE COMPLETED BY THE APPLICANT. PROVIDE A COPY OF THE SIGNED CONTRACT. RESIDENTIAL CONTRACTS MUST BE IN THE NAME SHOWN ON THE RESIDENTIAL BUILDER'S OR MAINTENANCE AND ALTERATION CONTRACTOR'S LICENSE.

NON-OWNER APPLICANT AFFIDAVIT	
I,	PROPOSED WORK IS
AUTHORIZED BY THE OWNER OF RECORD AND THAT I HAVE BEEN AUTHORIZED BY	Y THE OWNER,
OF	
PRINTED OWNER(S) OWNER'S ADDRES	S
TO ACT AS HIS/HER/THEIR AUTHORIZED AGENT FOR THE PURPOSE OF APPLYING FO PERMIT HEREIN REQUESTED.)R, AND OBTAINING, THE
WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE	
APPLICANT'S SIGNATURE DATE	
	· .

OFFICE USE ONLY

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	FEES:	PAID:
Administrative Fee:		
Permit Fee:		<u></u>
Bond:	<u></u>	
Bond Number:	<u> </u>	
Plan Review Fee:		
Eng. Plot Plan Fee:	<u></u>	
Contractor Registration:		
Occupancy Fee:		-
Investigative Fee:		
Other:		
TOTAL:	<u></u>	

OFFICE USE ONLY:			
APPROVED BY	 	DATE	
COMMENTS:	 		

REV 03/17

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 252-0050 ext. 209

STATEMENT OF POLICIES, REQUIREMENTS AND REGULATIONS AS OF APRIL, 2017

This document contains the general polices, requirements and regulations of the City of Highland Park Building Division as they pertain to the review, issuance and/or inspection of site plans, building and trade permits, code inspections, and certificates of occupancy. It is not intended to be all inclusive and is subject to change at any time without notice.

PERMITS:

To obtain permits from this department may require any or all of the following material.

- 1. Approved Site Plan
- 2. Construction Drawings
- 3. Building, Electrical, Mechanical or Plumbing License
- 4. For County/State roads driveway (ROW) permit (from WCRC or MDOT)
- 5. Soil Erosion Permit or waiver
- 6. Plan approval from the Wayne County Health Department or the Department of Agriculture
- 7. Payment of Required Fees

Requirements for these items are as follows:

1. SITE PLANS

A. Single Family Residential Construction

A site plan of the parcel or lot is required for all new residential construction and for all other residential construction which involves an addition to, or a change in, the number, size or shape of any structure(s). Structures include such things as accessory structures, pools and garages in addition to houses. The site plan <u>must</u> show the following:

1. STANDARD DRAFTING REQUIREMENTS

- a. North arrow
- b. Graphic Scale
- c. Lot dimensions, bearings or interior angles
- d. Legal description
- e. Legend

2. EXISTING CONDITIONS

- a. All structures, houses, garages, driveways, sheds, etc., on site (if any) and off-site within 50 feet.
- b. All utilities, based on field observations and city records, on site or adjacent thereto.

1

- c. Existing street catch basins with dimensional tie to the nearest property line.
- d. Ground elevations taken approximately on a one (1) foot contour:
 - 1) on site
 - 2) at finish grade (F.G.) of adjacent houses, garages, driveways
 - 50 foot off-site in all directions including back of sidewalk, top of curb and gutter and along the rear lot line (extended) and along the front lot line (extended)
- e. Bench Mark near the site, with an elevation related to the U.S.G.S. Datum.

3. PROPOSED CONDITIONS

f.

- a. Location and dimensions (size) of new house, garage, and driveway.
- b. Drainage pattern by arrows.
- c. Location of connections and leads for the water service and sanitary sewer.
- d. Proposed Elevations:
 - 1) finish floor and bottom of footing
 - 2) finish grade (brick ledge) of proposed house
 - 3) every 50 feet along all property lines including the lot corners
 - 4) all driveway corners and at the two points along the front setback line
 - 5) finish grade of proposed garage slab
 - 6) threshold elevation of any side door opening to a driveway.
- e. Location and dimensions of all easements on the property.
 - Method of discharge, and the location and type, of all underground piping for the sump pump and ground water. The following methods of discharge for ground water and sump pumps may be approved as noted.
 - 1) Connection to a storm structure or storm sewer. This is the preferred method and will be required unless the applicant can demonstrate that using this method is a severe economic hardship or a practical difficulty.
 - 2) On site discharge into a swale. The applicant must furnish soil and engineering information to prove the swale can contain, and dissipate, the discharge within the site. Unobstructed point discharge (sump discharge) into, or onto, public sidewalks or other public right-of-way shall not be permitted.
 - 3) In the case where discharge cannot be accomplished by the above methods, and the property is serviced by a combined sewer system, the applicant may request discharge into the combined sewer line pursuant to the provisions of the Michigan Plumbing Code. This is considered a last resort method. A sump pump installation shall be required in all such cases to facilitate discharge to the exterior of the structure in an emergency.

All underground storm or ground water piping serving more than one parcel shall be in recorded easements.

<u>Photocopier enlargements of subdivision site plans or plats will not be accepted.</u> Residential site plans may be a maximum of 11×17 inches. Others must provide one copy reduced to 11×17 along with the required sets to scale.

B. Commercial, Multi-family, and Industrial Construction

New commercial, multi-family or industrial construction requires site plan approval by the City of Highland Park Planning Commission. Additionally, any construction which involves an addition to, or a change in, the number, size or shape of any structure or landscaping also requires review of the amended site plan by the Commission. No permits will be issued until the site plan review is complete and signed copies of the approved or amended plan are received from the Commission.

2. CONSTRUCTION DRAWINGS

Complete drawings, including an electrical layout plan are required for all buildings and structures. Complete electrical, mechanical and plumbing plans are required on all plans except one and two family residential. One and two family residential plans under thirty-five hundred (3500) square feet may be submitted by a currently licensed Michigan Residential Builder or a qualified homeowner. All other drawings must bear the countersigned seal of a Michigan registered architect or engineer. For all projects the original plan(s), DRAWN TO SCALE, shall be a maximum of 24 x 36 inch format. At least one set of drawings must be submitted in a format no larger than 11 x 17 inches. 11 X 17 drawings which are reduced from larger drawings must contain a graphic scale usable on the reduced drawing and must be legible. Drawings larger than 24 x 36 inches will not be accepted. Reverse layout plans with reversed text will not be accepted.

3. BUILDING, ELECTRICAL, MECHANICAL OR PLUMBING LICENSE

Any contractor making application for a permit must be licensed in the trade for which the permit is requested with the following exceptions:

- A. Commercial building permits (requires sealed plans).
- B. <u>Qualified</u> homeowners.

All residential builders, maintenance and alteration, demolition and moving contractors, electrical contractors, mechanical contractors, plumbing contractors, fire protection contractors, alarm contractors, sign electrical contractors and mobile home installers must register with the City prior to applying for permits. Initial registration requires the license holder to appear in person. All persons registering must present their license, federal identification number, workman's compensation carrier, and M.E.S.C. number and pay a registration fee. All contractors' vehicles must have identifying signs on the vehicle.

4. CONCRETE PERMITS

New or replacement exterior concrete placement requires a concrete permit. This permit is for the purpose of checking grades and drainage after forming. We do not inspect the flatwork concrete itself on private property.

3

5. FEES

All permit fees are established by resolution of the City Council. The current fee schedule is available from the Community & Economic Development Department; Building Division.

6. **INSPECTIONS:**

The City of Highland Park provides inspection services through its Building Department for all required inspections except those requiring a licensed professional (surveyor or engineer). Services are provided by State registered inspectors. All inspections are scheduled by the City of Highland Park Building Division at (313) 252-0050 ext. 234 or 209.

Inspections must be requested one day in advance. Late requests will be honored only if the workload permits. Inspections are done Monday through Friday between 9:30 AM and 3:30 PM. (Note: Schedule may vary due to workload and inspector availability.)

We cannot guarantee an inspection time.

All inspections which do not pass will require payment of a re-inspection fee. This includes lock-outs and missed appointments. Fees must be received prior to re-scheduling the inspection. Inspection fee schedules and required inspection lists are available from this Department.

Cancellations must be received before 9:00 AM the day of the inspection or a re-inspection fee may be charged. Inspections canceled or rescheduled more than once may be subject to a re-inspection fee.

7. CERTIFICATES OF OCCUPANCY:

A certificate of occupancy must be obtained prior to occupying the following for any reason:

- 1. Any new structure.
- 2. A new addition to any structure.
- 3. Any structure which has had a change of use under the building code.
- 4. All business uses.

Commercial certificates of occupancy for new construction must be requested 10 working days in advance. Single family residential certificates require 5 working days notice. The site must meet the minimum requirements set forth in the Ordinances of the City of Highland Park. Temporary certificates will be issued for a maximum of 90 days only in the following circumstances:

- 1. Construction or site completion is delayed more than seven (7) days by weather.
- 2. Site completion, such as landscaping, cannot be completed do to City regulations or seasonal conditions.
- 3. Other unusual circumstances at the sole discretion of the Department.

Temporary certificates will not be issued due to construction delays, closing schedules, or poor planning on the part of the builder or purchaser.

8. OTHER DEPARTMENT POLICIES:

- A. Except where accomplished by a rated unit, no access opening shall be permitted in any required fire separation assembly, and all electric boxes and other similar devices in the surface of such assemblies shall be 2 hr. rated.
- B. All water services must conform to the approved water service installation policy.
- C. On all construction sites the property lines must be identified and verifiable at all times during construction.

City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203 (313) 252-0050

CONTRACTOR REGISTRATION FORM

If the Federal I.D. number provided is a Social Security number, pursuant to the Michigan Social Security Number Privacy Act, this document contains CONFIDENTIAL INFORMATION

Business Name:	· · · · · · · · · · · · · · · · · · ·	
Business Owner or Qualifying Officer:		•
Address:	Telephone #:	
	Cell Phone #:	
Federal I.D. #:	Fax #:	
Contractor License #:	Expiration da	te:
E-mail:		
Workers Comp Ins. Carrier (or reason for	or exemption):	
MESC Employer # (Self Employed):		
Authorized Signatures – <u>please print</u> (only t 	2, <u>PLUMBING</u> & <u>SIGN</u> CONTRACT its – <u>please print</u> (copy of master's/spec	vill be allowed to obtain permits): ORS ONLY: ialist's license(s) must be attached)
Name: Please be advised that the State of Mic Contractors and Autho		
I, the undersigned, hereby certify that the ir	nformation herein is true and correct to	the best of my knowledge.
Signature of Contractor:	etter in front of a Notary Public whose	Date: / / / signature and seal is affixed hereto
	Subscribed and sworr	n to me on this
Office Use Only:	day of	, in the year
Reg. #		, Notary Public
Expires: / /		Printed Name

County, Michigan

Acting in _____ County, Michigan

My commission expires:

Did you remember to include:

Licenses Verified

Initials: _

Copy of licensee's (contractor) driver's license.

- Current contractor's license, and current masters or specialist license for electrical, plumbing and sign specialists. Copy of qualifying officer's license for LLC's, Corporations and Partnerships.
- □ Registration fee from reverse side.

Date:

□ Signature of licensee (contractor) on this form (must be notarized if form is not being submitted in person).

CITY OF HIGHLAND PARK

Building Department 12050 Woodward Ave. Highland Park, MI 48203 PH. (313) 252-0050 ext. 209

Name Address City St Zip

Date

Dear Permit Holder,

Please be advised that the inspection called for on ______ at _____ under permit # ______ is not approved. The outstanding violations are listed below. A re-inspection is required and the fee of \$40.00 must be paid before a re-inspection may be scheduled. Make checks payable to the City of Highland Park.

Sincerely,

Jack Williams

Building Inspector

Violations:

Uncorrected

Uncorrected

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 252-0050 ext. 209

FOR OFFICE USE ONLY
PERMIT #: _____

DATE ISSUED: _____

BY:

ELECTRICAL PERMIT APPLICATION

JOB ADDRESS:		
OWNER'S NAME:	PHONE:	FAX:
OWNER'S ADDRESS:	CITY:	ZIP:
APPLICANT:	PHONE:	FAX:
APPLICANT'S ADDRESS:	CITY:	ZIP:

E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)
Required	Administrative Fee	\$50.00	\$50.00
	Temporary Service	\$75.00	
	Permanent Service	\$75.00	
	Underground Inspection	\$75.00	
	Rough Inspection	\$75.00	
	Final Inspection	\$75.00	
	Other	\$75.00	
	TOTAL FEES:		

FOR OFFICE USE ONLY		
	FEES	PAID
Permit:		
Registration	:	- <u></u>
Investigative	• Fee:	
Other:		·
TOTAL:		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
Code Official Ap	proval:	
Date approved fo	or issue:	

DESCRIPTION OF WORK: _

PLAN REVIEW: Plan review is required when the building exceeds 3,500 square feet or the service exceeds 400 amperes. Required plans shall be prepared under the direct supervision of a qualified architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

HAVE PLANS BEEN SUBMITTED?

YES

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines. By signing this application I consent to receiving notices by e-mail.

HOMEOWNER AFFIDAVIT: I hereby certify the work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the electrical code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Inspector. I will cooperate with the Inspector and assume the responsibility to arrange for necessary inspections.

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:

APPLICANT'S SIGNATURE

DATE

DRIVER'S LICENSE NUMBER

DATE OF BIRTH

Rev 03/17

FEE INFORMATION ON REVERSE SIDE

1.0 ELECTRICAL PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any electrical permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$30.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00 for electrical (all categories).
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.1 Electrical: Single-Family Residential

For new construction a minimum of three inspections are required, a service, rough and final inspection. An additional inspection shall be required if temporary service is provided.

Remodels shall require a minimum of two inspections, a rough and a final. For all other types or work of this class, inspections shall be required for each visit required from the electrical inspector.

3.2 Electrical: Multiple-Family, Commercial, Industrial

For a multiple-family structure or multi-tenant commercial or industrial building, a minimum of two inspections, a rough and a final, shall be required for each designed unit in such a structure. An inspection shall also be required for the building service.

For all other buildings of this class, inspections shall be required for each visit required from the electrical inspector. The inspector shall estimate the number of visits required.

A separate inspection shall be required for temporary service.

CITY OF HIGHLAND PARK WAYNE COUNTY, MICHIGAN

RESOLUTION regarding FEE SCHEDULE FOR COMMUNITY DEVELOPMENT DEPARTMENT SERVICES

WHEREAS, the City of Highland Park has adopted a City Code containing a Building Code, Property Maintenance Code, and other provisions to protect the public health safety and welfare: and

WHEREAS, it is provided in said Code that the City Council, by resolution, shall establish reasonable fees to be charged by the City for acts and services performed there under; and

WHEREAS, in accordance with the Charter of the City of Highland Park, it is provided that the City Council shall adopt a Budget for the fiscal year, appropriate funds for said purposes and provide for a levy of taxes for said Budget appropriations; and

NOW, THEREFORE, BE IT RESOLVED that the following schedule of fees be, and hereby are, determined and established as follows and that the following schedule of fees shall supersede and replace all previous fee schedules for the services so listed:

CITY OF HIGHLAND PARK COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 252-0050 X 234

SCHEDULE OF FEES FOR PERMITS AND SERVICES Effective October 1, 2016

BUILDING FEES AND INSPECTION SCHEDULE

Notice for all permits: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if; 1) the authorized work is not commenced within one hundred eighty (180) days after issuance of the permit or; 2) if the authorized work is suspended or abandoned for a period of one hundred eighty (180) days after the time of commencing the work or; 3) if no inspections are requested and conducted within one hundred eighty (180) days of the date of issuance or the date of a previous inspection. Closed permits cannot be refunded. Closed permits may be reopened within thirty (30) days of the closure date. The charge to reopen a closed permit is \$75.00. Permits may be renewed, *prior to their expiration*, one time for a period of one hundred eighty (180) days.

1.0 ELECTRICAL, MECHANICAL & PLUMBING PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The permit fees for any electrical, mechanical or plumbing permit shall be \$75.00 per inspection. A minimum of one inspection and the application fee are required on all permits. Permit renewals shall be \$35.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00 for all categories of electrical, mechanical and plumbing contractors. Registrations shall be yearly unless required otherwise by law.
- 1.4 Permits shall be for the minimum number of inspections required in Section 3.

- 1.5 An investigative fee equal to the amount provided for in Section 1.2, may be assessed if a permit was not obtained prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

2.0 **BUILDING, MOVING, DEMOLITION AND SIGN PERMIT FEE SCHEDULE**

- 2.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 2.2 The permit fees for building permits shall be an application fee plus the applicable permit fee. One inspection and the application fee are required on all permits. Permit renewals shall be \$35.00. Permit fees are non-refundable after work has started and non-transferable.
- 2.3 Contractor registration fee shall be \$15.00 annually for building, moving, demolition, concrete and sign contractors.
- 2.4 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.
- 2.5 FEE SCHEDULE

Building and Plan Review Permit Fees

Building fees:

\$50.00 non-refundable application fee plus permit fees as follows:

Improvement Cost Fee

\$0.00 to \$2,000.00 = \$93.00 \$2001.00 up =\$93.00 plus an additional \$13.00 per thousand, or fraction thereof over \$2000.00

Plan review fees:

Residential alteration or accessory structure New residential construction	= \$75.00 = \$200.00
Multi-family, Commercial and Industrial	= .005 x cost, minimum \$250.00, maximum \$5,000.00
	In the event that the Department requires review by outside consultants as part of the plan review, all costs for required outside architectural or engineering reviews shall be paid by the applicant in addition to the standard plan review fees.

Certificates of Occupancy

Residential (One and Two-family) Certificate of Occupancy including replacement certificates = \$25.00

Multiple-Family, Commercial, Industrial

Additions/New Construction/Change in use, owner or occupant: = \$200.00. Replacement certificates: = \$25.00

Temporary Certificate of Occupancy

One and Two Family residential - \$250.00 plus bond of \$500.00 per incomplete item or 100% of cost, whichever is greater. Bondable items are concrete, sod and final grade in the winter months only. Bond for an as-built plot plan shall be \$1000.00.

All other construction - \$250.00 plus bond for 100% of incomplete work.

All temporary certificates are 90 days maximum with one renewal.

<u>Signs</u>

All permits shall be assessed a non-refundable application fee of \$50.00.

Permit Fees: Permit fees are non-transferable.

Permanent signs

Signs:	Up to 20 square feet	= \$125.00
	Over 20 square feet	= \$250.00

Temporary signs

General information	= \$100.00
Non-commercial signs	No fee, must be on private property

Demolition

All permits shall be assessed a non-refundable application fee of \$50.00.

Permit Fees:

Residential = 225.00 (Includes pre-inspection, open hole/sewer cap and final inspection) Non-residential = 100.00 + 0.07 per square foot

Dumpster in Right-of-Way

\$5.00 per day, \$25.00 minimum

Code Inspections

\$75.00 per inspector/per hour, or fraction thereof.

Overtime Inspections

\$115.00 per hour.

Additional/Add-on Inspections, All Permits

\$75.00 per inspection.

2.6 An investigation fee equal to the amounts provided in Section 2.5, may be assessed if a permit was not obtained prior to commencement of work.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.1 Electrical: One and Two Family Residential

For new construction a minimum of three inspections are required for each dwelling unit, a service, rough and final inspection. An additional inspection shall be required if temporary service is provided.

Remodels shall require a minimum of two inspections per unit, a rough and a final. For all other types of work of this class, inspections shall be required for each visit required from the electrical inspector.

3.2 Electrical: Multiple-Family, Commercial and Industrial

For a multiple-family structure or multi-tenant commercial or industrial building, a minimum of two inspections, a rough and a final, shall be required for each living or work unit. An inspection shall also be required for each service.

For all other buildings of this class, inspections shall be required for each visit required from the electrical inspector. The inspector shall estimate the number of visits required.

A separate inspection shall be required for temporary service.

- 3.3 Mechanical: One and Two Family Residential
 - 1. For new construction a minimum of three inspections, a rough, final, and gas line inspection shall be required for each heating system. A separate inspection shall be required for each cooling system. A heating or cooling unit without a distribution system shall require one inspection.

Remodels shall require a minimum of a rough and final inspection. For all other types of work of this class, inspections shall be required for each visit required from the mechanical inspector.

- 2. Pre-fab fireplaces shall require a minimum of one inspection per dwelling unit. Multiple fireplaces in the same dwelling unit and inspected on the same visit shall require one inspection. Units may also require a separate gas line pressure test and inspection.
- 3.4 Mechanical: Multiple-Family, Commercial and Industrial

Each heating and/or cooling unit shall require one inspection. Each multi-family dwelling unit shall require a rough and final per dwelling unit. Installation or modification of any distribution system not involving the associated heating/cooling unit shall require one inspection. Where an underground inspection(s) is required, an additional inspection shall be charged per visit. Gas lines require an additional pressure test and inspection per system.

Refrigeration units of one horse-power or greater shall require one inspection per unit.

Concealed piping shall require an additional inspection per system.

3.5 Plumbing: One and Two Family Residential

For new construction an underground, rough and final plumbing inspection shall be required for each dwelling unit.

Remodels shall require a minimum of two inspections, a rough and final. For all other types of work of this class, inspections shall be required for each visit required from the plumbing inspector.

3.6 Plumbing: Multiple-Family, Commercial and Industrial

Each unit in a multiple-family structure or in a multi-tenant structure shall require a rough and a final inspection. An additional inspection for underground plumbing shall be required for each unit in a strip center. A multiple-family structure or other multi-tenant building shall require an additional inspection for underground plumbing at the rate of one inspection per building. An additional inspection shall be required for sewer and water service.

All other commercial and industrial buildings shall be charged at the rate of one inspection for each visit required from the plumbing inspector. The inspector shall estimate the number of visits required.

3.7 Building – Required Inspections: All Construction

Building inspections shall follow the schedule below to the extent applicable:

- a. Footing before footing is poured. Property lines must be identified for the inspection.
- b. Backfill before foundation wall is backfilled and before slab floors and with sill plate and foundation drain in place and anchor bolts and bracing installed.
- c. Brick Ledge after first course of brick, flashing, weep holes, and pea stone are installed.
- d. Rough before any framing is covered and after rough electrical, mechanical and plumbing inspections are approved.
- e. Insulation prior to covering insulation.
- f. Slab prior to pouring concrete slab with sub-base, forms and any reinforcement and insulation installed.
- g. Fireplace Masonry when damper and first flue liner are in place.
- h. Drywall fastener inspection before drywall is taped.
- i. Final after final electrical, plumbing, and mechanical inspections are approved.
- j. Final Site/Certificate of Occupancy when all inspections are approved and prior to Occupancy. It is illegal to occupy a building before a Certificate of Occupancy is issued. As built drawings including the approved, existing, final grade elevations must be received before an occupancy certificate can be issued.

CONCRETE PERMITS

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 Permit Fees: Permit fees are non-refundable after work has started and non-transferable.

Concrete flatwork = \$75.00 per inspection Restoration inspection = \$75.00

1.3 Contractor registration fee: = \$15.00

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1.4 An investigative fee equal to the amount provided for in Section 1.2, shall be assessed if a permit was not obtained prior to commencement of work.

FENCE PERMITS

- All permits shall be assessed a non-refundable application fee of \$50.00.
 Permit Fees: Permits and fees are non-refundable after work has started and non-transferable. Fences: Industrial/Commercial - First 100 feet - \$50.00 Each additional 100 feet - \$100.00 Residential - \$50.00
 Contractor registration fee: = \$15.00
- 1.4 An investigative fee equal to the amount provided for in Section 1.2, shall be assessed if a permit was not obtained prior to commencement of work.

PRIVATE SEWER AND WATER SERVICE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 Permit Fees: Permit fees are non-refundable after work has started and non-transferable. Private sewer and water leads (from the building to the storm sewer, sanitary sewer or water main) including replacements:

= \$75.00 each.
= \$75.00
= \$75.00 each.

1.3 Contractor registration fee: Registration = \$15.00

1.4 An investigative fee equal to the amount provided for in Section 1.2, shall be assessed if a permit was not obtained prior to commencement of work.

RESALE INSPECTIONS

- 1.1 All applications shall be assessed a non-refundable application fee of \$50.00.
- 1.2 Initial Exterior Inspection = \$75.00 (Includes one re-inspection)

Second and Subsequent Re-inspections = \$75.00 per inspection

PLANNING FEES

Site Plan Review:

Residential, Infill or Multi-family:=\$600.00 + \$10.00 per unitCommercial, Office, Industrial or Institutional:=\$600.00 + \$50.00 per acre or fraction thereofPlanned Development:Preliminary Plan Review – Hourly rates vary

Final Detailed Site Plan Review – Same as Residential & Commercial Above

Revision Reviews: =0.6 Times the Regular Fee Expedited Review: =1.5 Times the Regular Fee

Engineering Reviews: =\$500.00 Deposit (Due upon submission - unused portion refunded)

Special Land Use Permits:

Special Land Use Review: =\$600.00 + \$20.00 per acre or fraction thereof Special Land Use Review w/ Site Plan Review: =\$300.00 + \$20.00 per acre or fraction thereof Special Land Use Permit Renewal: =\$200.00

Zoning Ordinance Text or Map Amendment Hearing: =\$600.00 + \$25.00 per acre or fraction thereof

Plats and Site Condominiums \$1000.00

Easements:

Vacations	\$500.00
Encroachments	\$50.00

Land Divisions/Combinations: =\$250.00 + \$40.00 per lot

Alley or Street Vacations: =\$250.00 + \$35.00 per abutting lot

Other Reviews: =\$500.00 Deposit (hourly rates vary)

	ZONING	FEES			
Zoning Board Appeals: Variance Request, Ordinance Interpretati	ons:	Commercial Residential	= \$750.0 = \$300.0		
Appeal of Administrative Decision/Use V	Appeal of Administrative Decision/Use Variance				
RENI	RENTAL CERTIFICATES				
Registration fee – all properties:	= \$100	0.00			
Certificate Fees:		egistrations and I he Renewal Date		Late Fees**	
One & Two Family Multiple Family, 3 units and over		0.00 per dwelling 9 + \$25.00 per uni		=\$75.00 per unit =\$12.50 per unit	

The license period for all new and renewal certificates shall be twenty-four (24) months from the application date or the expiration date of the previous certificate for the same owner.

*The application fee includes an initial inspection and one re-inspection, if required. An additional fee of \$75.00 per inspection shall be charged for all locked-out inspections, the second and subsequent re-inspection of all failed inspections and second and subsequent cancelled inspections with less that seventy-two hours notice.

**Late fees are assessed if the application <u>and</u> fee are not received before the current expiration date; if the renewal is not completed within fifteen (15) days after the renewal date; or if a new application for an occupied property is not completed within thirty (30) days of the application date.

VACANT PROPERTY REGISTRATION			
Residential:	Initial Registration fee:	= \$275.00*	Annual renewal: = \$200.00
Commercial:	Initial Registration fee:	=\$375.00*	Annual renewal: = \$300.00
Additional Inspections: = \$75.00 each		* Incl	ludes one initial inspection and one re-inspection

BÚSINESS LICENSE INSPECTIONS

Business License Inspection: = \$175.00 (Includes one re-inspection. Additional re-inspections and lock-outs = \$75.00 each)

8

City of Highland Park

12050 Woodward Ave. Highland Park, Michigan. 48203 Phone No. (313) 252-0050 ext. 209

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Date:	Permit Number: PB	
Project Address:		
Project Name:		
Use Group:	Construction Type:	
Scope of Work:		
Special Notes and C	Conditions:	
Reviewed By:	Jack R. Williams, Building Official	
Codes Used: (Boxes	s Checked are Codes used for Review)	Code Symbol
 City of Highlan 2015Michigan 2012 Michigan 2015 Michigan 2012 Michigan 	d Park Code of Ordinances and Local Requirements d Park Zoning Ordinance. Residential Code Building Code. Energy Code. Electrical Code (2014 NEC) (commercial & industrial) Mechanical Code. Plumbing Code. nal Fire Code as amended.	(Z) (MRC) (MBC) (MBC) (MENGC) (MEC) (MEC) (MPC)

No.	Comments or requested information	Code
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FAILURE TO IDENTIFY A CODE VIOLATION DURING THE REVIEW OF THE PLANS DOES NOT GIVE THE PERMIT APPLICANT THE RIGHT TO VIOLATE THE CODE.

CONTINUED ON REVERSE SIDE

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□ Plans Approved as Submitted.

□ Plans Approved Contingent Upon Compliance With Items Listed.

☑ Revised Plans That Comply With Code Must Be Resubmitted For Review.

Inspectors Additional Comments:

Permit Tracking Log:

FAILURE TO IDENTIFY A CODE VIOLATION DURING THE REVIEW OF THE PLANS DOES NOT GIVE THE PERMIT APPLICANT THE RIGHT TO VIOLATE THE CODE.

CITY OF HIGHLAND PARK BUILDING DEPARTMENT 12050 WOODWARD AVE. HIGHLAND PARK, MI 48203 (313) 252-0050 ext. 209

PERMIT #: _____

FOR OFFICE USE ONLY

DATE ISSUED:

BY: _____

MECHANICAL PERMIT APPLICATION

,	
PHONE:	FAX:
CITY:	ZIP:
PHONE:	_FAX:
CITY:	ZIP:
	PHONE: CITY: PHONE:

Check here to receive Notices of Repair by De-mail D. E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)
Required	Administrative Fee	\$50.00	\$50.00
	Rough Heat	\$75.00	
	Final Heat	\$75.00	
	Residential Air Conditioning	\$75.00	
	Commercial Heat or Air (One inspection per unit)	\$75.00	
	Refrigeration	\$75.00	
	Gas Line	\$75.00	
	Fire Suppression	\$75.00	
	Other		
	TOTAL FEES:		

••••			
Date approved for issue:			

DESCRIPTION OF WORK:

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet or for alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a qualified architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

HAVE PLANS BEEN SUBMITTED?

YES

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

I HAVE READ AND UNDERSTAND THE ABOVE PROVISIONS:				
APPLICANT'S SIGNATURE	DATE	DRIVER'S LICENSE NUMBER	D	

NO NO

ATE OF BIRTH

FEE INFORMATION ON REVERSE SIDE

1.0 MECHANICAL PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any mechanical permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$35.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00 for mechanical (all categories).
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

- 3.3 Mechanical: Single-Family Residential
 - 1. For new construction a minimum of three inspections, a rough, final, and gas line inspection shall be required for each heating system. A separate inspection shall be required for each cooling system. A heating or cooling unit without a distribution system shall require one inspection.

Remodels shall require a minimum of a rough and final inspection. For all other types or work of this class, inspections shall be required for each visit required from the mechanical inspector.

2. Pre-fab fireplaces shall require a minimum of one inspection per dwelling unit. Multiple fireplaces in the same dwelling unit, and inspected on the same visit, shall require one inspection. Units may also require a gas line inspection.

3.4 Mechanical: Multiple-Family, Commercial, Industrial

Each heating and/or cooling unit shall require one inspection. Each multi-family dwelling unit shall require a rough and final. Installation or modification of any distribution system not involving the associated heating/cooling unit shall require one inspection. Where an underground inspection(s) is required, an additional inspection shall be charged per visit. Gas lines require an additional inspection per system.

Refrigeration units of one horse-power or greater shall require one inspection per unit.

Concealed piping shall require an additional inspection per system.

CERTIFICATE OF OCCUPANCY

CITY OF HIGHLAND PARK WAYNE COUNTY STATE OF MICHIGAN

Issued by the City of Highland Park Building Department, and having complied with the requirements of the Zoning Ordinance, as amended, and the State Construction Code, where applicable, permission is hereby granted to occupy the premises as set forth below and in the corresponding application.

Property Address:	2035 BELMONT
Certificate Number: OF 17	-0003 Issued:
Use Group: Spinkler System: N	Construction Type: Zoning:
Property Owner:	Issued to:
RAHMAN, KAZI	RAHMAN, KAZI
HAMTRAMCK, MI 48212	HAMTRAMCK MI 48212

Permission to occupy the above described structure is granted on the express condition that said building is, or shall be, in all respects and at all times, in conformance with the Code of Ordinances of the City of Highland Park, regulating the construction, occupancy, use and maintenance of buildings. This Certificate expires immediately upon any change in use or ocupancy and may be revoked at any time, without prior notice, upon violation of any provision of the above ordinances.



Signed in Highland Park, Michigan

S/ Tack R. Williams

Building Official

CITY OF HIGHLAND PARK
BUILDING DEPARTMENT
12050 WOODWARD AVE. HIGHLAND PARK, MI 48203
(313) 852-0050 ext. 209

FOR OFFICE USE ONLY

.....

PERMIT #: _____

DATE ISSUED: _____

BY: _____

PLUMBING PERMIT APPLICATION

JOB ADDRESS:		
OWNER'S NAME:	PHONE:	_FAX:
OWNER'S ADDRESS:	CITY:	ZIP:
APPLICANT:	PHONE:	FAX:
APPLICANT'S ADDRESS:	CITY:	ZIP:

Check here to receive Notices of Repair by D or e-mail D. E-mail address:

FEES & WORK DESCRIPTION:

No. of Inspections	Type of Inspection or Fee	Fee	Cost (No. x Fee)	
Required	Administrative Fee	\$50.00	\$50.00	
	Water or Sewer Lead or Private Structures (ea.)	\$75.00		
	Underground Inspection	\$75.00		
	Rough Inspection	\$75.00		
	Final Inspection	\$75.00		
0 - 10 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	Other	\$75.00		
	Other			
•	TOTAL FEES:			

FOR OFFICE USE ONLY					
-	FEES	PAID			
Permit:		.` 			
Registration:					
Investigative Fee:					
Other:					
TOTAL:					
Code Official Approval:					
Date approved for issue:					

DESCRIPTION OF WORK:

PLAN REVIEW: Plan review is not required for one and two family dwellings under 3,500 square feet, alterations determined to be minor by the building official. Plans are required for all other building types and shall be prepared under the direct supervision of a qualified architect or engineer licensed pursuant to Act 299, of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's seal.

HAVE PLANS BEEN SUBMITTED?

	YES
--	-----

NOT REQUIRED

APPLICANT'S SIGNATURE: Section 23A of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being Section 125.1523A of the Michigan Complied Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23A are subject to civil fines.

I HAVE READ AND UNDERSTAND	THE ABOVE PROVISIONS:
----------------------------	-----------------------

APPLICANT'S SIGNATURE

DATE

DRIVER'S LICENSE NUMBER

DATE OF BIRTH

FEE INFORMATION ON REVERSE SIDE

1.0 PLUMBING PERMIT FEE SCHEDULE

- 1.1 All permits shall be assessed a non-refundable application fee of \$50.00.
- 1.2 The Permit Fees for any plumbing permit shall be \$75.00 per inspection. One inspection and the application fee are required on all permits. Permit renewals shall be \$30.00. Permit fees are non-refundable after work has started and non-transferable.
- 1.3 Contractor registration fee shall be \$15.00.
- 1.4 Permits for new construction shall be for the minimum number of inspections required in Section 3.
- 1.5 An investigative fee equal to the permit fee, shall be assessed if a permit was not issued prior to commencement of work.
- 1.6 A fee of \$40.00 per inspection shall be charged for the re-inspection of all failed inspections.

3.0 INSPECTIONS: MINIMUM NUMBER AND WHEN REQUIRED

3.5 Plumbing: Single-Family Residential

For new construction a underground, rough and final plumbing inspection shall be required.

Remodels shall require a minimum of two inspections, a rough and final. For all other types or work of this class, inspections shall be required for each visit required from the plumbing inspector.

3.6 Plumbing: Multiple-Family, Commercial, Industrial

Each unit in a multiple-family structure or in a multi-tenant structure shall require a rough and a final inspection. A multiple-family structure or other multi-tenant building shall require an additional inspection for underground plumbing at the rate of one inspection per building. An additional inspection shall be required for sewer and water service.

All other commercial and industrial buildings shall be charged at the rate of one inspection for each visit required from the plumbing inspector. The inspector shall estimate the number of visits required.

CITY OF HIGHLAND PARK

Building Department 12050 Woodward Ave., Highland Park MI 48203 PH. (313) 252-0050 ext. 209

Date

NAME: ADDRESS: CITY: ST: ZIP

STOP WORK ORDER

Dear:

The City of Highland Park believes that you are in violation of Ordinance § 497 Art. III Sec 2.02.1 for the construction, development, razing of any use, structure or building, or the restoration or structural improvement of any existing use or structure without first obtaining a permit at ______ FOR PORCH REPAIR. NO FURTHER WORK, EXCEPT TO MAKE THE BUILDING SAFE, IS TO BE DONE UNTIL AND UNLESS THE PROPERTY IS IN COMPLIANCE WITH THE CODE.

You have until Date: to correct this violation.

Failure to correct this action by the deadline issued above will result in the issuance of a ticket subject to the following penalties:

1. \$100.00 fine for the first offense, plus costs if any;

2. \$250.00 fine for the second offense within one (1) year, plus costs if any;

3. Misdemeanor violation subject to ninety (90) days in jail, a \$500 fine, or any combination thereof upon conviction for the third and additional offense within one (1) year.

When the violation is abated, please contact:

<u>The Office of Building Services</u> – (313) 252-0050 ext. 234 or 209 - includes all trade inspections (electrical, mechanical, plumbing), Building Official – Jack Williams, Clerk - Kenyatta Smith. -emails to: <u>KSmith@HighlandParkCity.org</u>

<u>The Office of Code Enforcement</u> – (313) 252-0050 ext. 201 – Carlton Clyburn –emails to: <u>CClyburn@HighlandParkCity.org</u>.

Please use reference number _____.

Sincerely,

Jack Williams

Jack Williams Office of Building and Code Enforcement

Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 E-Mail: bccoas@michigan.gov www.michigan.gov/bcc

Authonity: 1972 PA 230 Penalty: Failure to provide the information may result in denial of your request.		LARA is an equal opportunity employer/program, Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.				
NAME OF GOVERNMENTAL SUBDIVISION CONTACT PERSON (Elected Official)						
City of Highland Park			Mayor Hubert Yopp			
ADDRESS (Street Number and Name)						
12050 Woodward Ave						
CITY	COUNTY	DUNTY		STATE ZIP CODE		
Highland Park	Wayne				48203	
TELEPHONE NUMBER (Include Area Code)			E-MAIL ADDRESS			
(313) 252-0050	(313) 852-7320	313) 852-7320		HYopp@HighlandParkCity.org		
Code Adoption						
To assume responsibility for the administration and enforcement of the act and the state code in accordance with Section 8b(6) of 1972 PA230. Attach a copy of the certified adopted ordinance assuming responsibility for administration and enforcement of the act and the code.						
State Code(s) to be Enforced						
🗹 Building 🛛 🖾 El	I Electrical			Mechanical		
 By checking the boxes below you are certifying the following: The governmental subdivision and the enforcing agency are qualified by experience or training to administer and enforce this act and the code and all related acts and rules. Agency personnel are provided as necesary. Administrative services are provided. Plan review services are provided. Timely field inspection services will be provided. A Board of Appeals is in place per MCL 125.1514. Have immediate access to the codes & standards for which you have applied to administer & enforce. 						
BUILDING OFFICIAL INFORMATION Name: Jack Wi		Registra	Registration Number: 002916			
Certification						
I certify the information given in this application to administer and enforce is true and accurate to the best of my knowledge. Name of Elected Official (Type or Print) μ_{BECT} / o_{PP} Title M_{A} / o_{PC}						
Name of Elected Official (Type or Print) <u>Hubble T Yopp</u> Title <u>MAYOR</u> Signature of Elected Official <u>AUUU Appp</u> Date <u>9-19-16</u>						

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rev. 03/15)

RESOLUTION MANDATING THE IMMEDIATE <u>REPEAL</u> OF THE EMERGENCY FINANCIAL MANAGER DIRECTIVE #61 OF 2003 AND <u>REINSTATEMENT</u> OF THE HIGHLAND PARK BUILDING CODE (CHAPTER 1420.) FROM THE HIGHLAND PARK 'CODE OF ORDINANCES'

WHEREAS, the Emergency Financial Manager, through Directive #61 on February 27th, 2003, directed the City of Highland Park to transfer responsibility for the administration and enforcement of its Building, Electrical, Mechanical and Plumbing code provisions to the Bureau of Construction Code (the State of Michigan) and,

WHEREAS, this directive taken by the aforementioned Emergency Financial Manager has relieved the City of Highland Park of its own ability to inspect building, electrical, mechanical and plumbing within the boundaries of the City of Highland Park and,

WHEREAS, this directive taken by the aforementioned Emergency Financial Manager has assisted in causing financial hardship to the City of Highland Park, now

THEREFORE BE IT RESOLVED, that the Highland Park City Council through its legal legislative powers hereby mandates the immediate <u>REPEAL</u> of the Emergency Financial Manager Directive #61 and <u>REINSTATES</u> the City of Highland Park Building Code (Chapter 1420.) from the Highland Park 'Code of Ordinances' effective immediately.

Absent: McClary

Certified by the City Clerk: Brenda Green

CODIFIED ORDINANCES OF HIGHLAND PARK

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PART FOURTEEN - BUILDING AND HOUSING CODE

TITLE TWO - Standards

Chap.	1420.	BOCA National Building Code and Model Energy Code.
Chap.	1422.	International Plumbing Code.
Chap.	1424.	International Mechanical Code.
Chap.	1426.	BOCA National Property Maintenance Code.
		National Electrical Ćode.

CHAPTER 1420

BOCA National Building Code and Model Energy Code

EDITOR'S NOTE: This chapter was previously titled "BOCA National Building Code and National Energy Conservation Code." The title was changed upon the adoption of the <u>Model Energy Code</u>, the 1995 edition.

$\begin{array}{c} 1420.01\\ 1420.02 \end{array}$	Short title. Purpose.	1420.08	Adoption of Building Code Rules.
1420.03	Adoption of 1996 edition of BOCA National Building	1420.09	Deletions from Building Code Rules.
	Code.	1420.10	Adoption of 1995 edition of
1420.04	Enforcement officers.		Model Energy Code.
1420.05	Coordination with other	1420.11	Effective date.
	laws.	1420.12	Conflict of laws.
$1420.06\\1420.07$	Uniform Board of Appeals. Violations and penalties.	1420.13	Amendments of BOCA Code.

CROSS REFERENCES

State Construction Code - see M.C.L.A. Secs. 125.1501 et seq. Storage of building materials - see GEN. OFF. 646.04 Construction of buildings; protection of vegetation - see S.U. & P.S. 1026.17 Building permits - see B & H Ch 1442 Ch 1444

Building permits - see B. & H. Ch. 1442, Ch. 1444 Licensing of contractors - see B. & H. Ch. 1442, Ch. 1444 Builders' Registry - see B. & H. 1442.05

1420.01 SHORT TITLE.

This chapter shall be known and cited as the Highland Park Building Code. (Ord. 1113. Passed 11-15-82.)

1420.02 PURPOSE.

This chapter is intended to establish minimum acceptable building standards, in terms of performance objectives, implemented by specific requirements, rather than in rigid specifications. This makes possible the acceptance of new materials which can be evaluated under nationally recognized standards, without the necessity of adopting cumbersome amendments for each variable condition. In addition, by presenting the purposes to be accomplished rather than the method to be followed, the designer is allowed the widest possible freedom, and the development of new and innovative construction systems is not hindered.

This chapter shall cover all matters concerning the construction, alteration, addition, repair, removal, demolition, use, location, occupancy and maintenance of all buildings and structures, and shall apply to existing or proposed buildings or structures, except where such matters are otherwise provided for in other chapters or statutes, or in the rules and regulations authorized for promulgation under the provisions of this chapter. (Ord. 1113. Passed 11-15-82.)

1420.03 ADOPTION OF 1996 EDITION OF BOCA NATIONAL BUILDING CODE. That certain document, three copies of which are on file in the office of the City Clerk, being marked and designated as the <u>BOCA National Building Code</u>, Thirteenth Edition, 1996, as amended, as published by Building Officials and Code Administrators (BOCA) International, Inc., is hereby adopted by reference as the Building Code of the City for the control of buildings and structures as therein provided, except such parts of such-Code as are hereinafter modified or deleted, and each and all of the regulations of the <u>BOCA National Building Code</u>, Thirteenth Edition, 1996, as amended, are hereby referred to, adopted and made a part hereof as if fully set out in this chapter. (Ord. 1189. Passed 11-18-96.)

1420.04 ENFORCEMENT OFFICERS.

(a) <u>Building Official</u>. The Inspections Coordinator or his or her designee shall enforce this chapter as herein provided. This official shall be referred to by the term Building Official or Code Official. However, if the Inspections Coordinator is not a licensed architect or engineer, permits for new construction and/or substantial renovation and condemnation orders for unsafe buildings shall be reviewed and approved by the City Engineer or other licensed architect or engineer.

(b) <u>Coordination of Enforcement</u>. Inspection of premises and the issuing of orders in connection therewith under the provisions of this chapter shall be the responsibility of the Building Official. Wherever, in the opinion of the Building Official, it is necessary or desirable to have an inspection of any condition by any other department, he or she shall

arrange for this to be done in such manner that the owners or occupants of buildings shall not be subjected to visits by numerous inspectors or to multiple or conflicting orders. An order to correct any violation under this chapter shall not be issued without the approval of the Building Official, and it shall be the responsibility of the Building Official, before issuing any such order, to determine that the order has the concurrence of any other department or official of the City concerned with any matter involved in the case in question. (Ord. 1154. Passed 12-15-86.)

1420.05 COORDINATION WITH OTHER LAWS.

(a) <u>Zoning</u>. The Building Official shall not issue any certificate of occupancy until the application for such certificate has been reviewed by the Zoning Official who shall have made a finding, in writing, that the proposed use does not conflict with the requirements of the Zoning Code.

The Building Official shall not issue any building permit for a new structure (including permits for the construction of building foundations or parking lots), or any building permit for a building renovation, where the estimated construction costs exceed five thousand dollars (\$5,000), until the application has been reviewed by the Zoning Official who shall have made a finding, in writing, that the proposed construction does not conflict with the requirements of the Zoning Code.

(b) <u>Michigan Energy Code</u>. The Building Official shall not issue any building permit for a new structure (excluding permits for the construction of building foundations or parking lots) until the application has been reviewed by the Division of Engineering, which shall have made a finding, in writing, that the proposed construction does not conflict with the requirements of the Michigan Energy Code. (Ord. 1113. Passed 11-15-82.)

1420.06 UNIFORM BOARD OF APPEALS.

The appeal process specified in Section 124.0 of the <u>BOCA National Building</u> <u>Code</u>, as adopted in Section 1420.03, shall be superseded by the procedures specified in Chapter 1440. (Ord. 1113. Passed 11-15-82.)

1420.07 VIOLATIONS AND PENALTIES.

The penalty section of the <u>BOCA National Building Code</u> (Section 117.0), as adopted in Section 1420.03, is superseded by the following regulations consistent with Section 23 of Act 230 of the Public Acts of 1972, as amended, the <u>Michigan</u> State Construction Code:

- (a) <u>Offenses</u>. A person, including an officer, director or employee of a corporation, or a governmental official or agent charged with the responsibility of issuing permits or inspecting buildings or structures, who commits any of the following acts, shall be guilty of a misdemeanor and shall be punished as provided in Section 202.99:
 - (1) Knowingly violates a provision of this chapter and/or a rule for the enforcement of this chapter;
 - (2) Knowingly constructs or builds a structure or building in violation of a condition of a building permit;
 - (3) Knowingly fails to comply with an order issued pursuant to this chapter by the Building Official, the Uniform Board of Appeals or a court;
 - (4) Knowingly makes a false or misleading written statement, or knowingly omits required information or a statement in an inspection report, application,

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petition, request for approval or appeal to the Building Official or to the Uniform Board of Appeals;

- (5) Knowingly refuses entry or access to an inspector lawfully authorized to inspect any premises, building or structure pursuant to this chapter;
- (6) Unreasonably interferes with an authorized inspection;
- (7) Knowingly issues, fails to issue, causes to be issued or assists in the issuance of a certificate, permit or license in violation of this chapter or a rule promulgated under this chapter or other applicable laws; or
- (8) Having a duty to report a violation of this chapter or a rule promulgated under this chapter or other applicable law, knowingly conceals a violation.
- (b) <u>Penalties.</u> With respect to paragraph (a) (3) hereof, a person is guilty of a separate offense for each day that the person fails to comply with a stop construction order validly issued by the Building Official and for each week that a person fails to comply with any other order validly issued by an enforcing agency. With respect to paragraphs (a)(1) and (4) hereof, a person is guilty of a separate offense for each knowing violation of this chapter or a rule promulgated under this chapter and for each false or misleading written statement or omission of required information or a statement knowingly made in an application, petition, request for approval or appeal to the Building Official or the Uniform Board of Appeals. With respect to paragraph (a)(2) hereof, a person is guilty of a separate offense for each knowing violation of a condition of a building permit. With respect to the other paragraphs, a person is guilty of a separate offense for each knowing violation.

(Ord. 1113. Passed 11-15-82.)

1420.08 ADOPTION OF BUILDING CODE RULES.

That certain document, three copies of which are on file in the office of the City Clerk, being marked and designated as <u>Part 4 Building Code Rules</u> of the Michigan Department of Labor, Construction Code Commission, is hereby adopted by reference as an amendment to the Building Code of the City, except for such parts of such <u>Building Code Rules</u> as may be in conflict with the Charter of the City, and except for such parts of such <u>Building Code Rules</u> as may be modified or deleted in this chapter, and each and all of the regulations of <u>Part 4 Building</u> <u>Code Rules</u>, as amended, are hereby referred to, adopted and made a part hereof as if fully set out in this chapter.

In addition, it is acknowledged that those portions of <u>Part 4 Building Code</u> <u>Rules</u> that apply to barrier free design are specifically mandated by State law. Any future barrier free design rule changes made by the Michigan Department of Labor, Construction Code Commission, shall also be considered to be an amendment to the Building Code of the City. (Ord. 1172. Passed 10-15-90.)

1420.09 DELETIONS FROM BUILDING CODE RULES.

Part 4 Building Code Rules, as adopted in Section 1420.08, are hereby amended and supplemented as set forth in this section. The following rules, which primarily pertain to the administration of the State Building Codes, are hereby deleted: Rules 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 413 and 414. (Ord. 1154. Passed 12-15-86.)

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1420.10 ADOPTION OF 1995 EDITION OF MODEL ENERGY CODE.

That certain document, three copies of which are on file in the office of the City Clerk, being marked and designated as the <u>Model Energy Code</u>, 1995 edition, as amended, as published by the Council of American Building Officials, is hereby adopted by reference as an amendment to the Building Code of the City for the control of buildings and structures as therein provided, except such parts of such Code as are herein modified or deleted, and each and all of the regulations of the <u>Model Energy Code</u>, 1995 edition, are hereby referred to, adopted and made a part hereof as if fully set out in this chapter.

1420,11 EFFECTIVE DATE.

The City Clerk shall certify the adoption of this chapter and cause the same to be published according to law, and this chapter shall take effect fifteen days after approval as so certified. However, this chapter shall not take effect until the State Construction Code Authority has reviewed and approved this chapter, or until the State Construction Code Authority has had this chapter for ninety days without either approving or denying this chapter. (Ord. 1172. Passed 10-15-90.)

1420.12 CONFLICT OF LAWS.

In the event of a conflict between any of the provisions of the <u>BOCA National</u> <u>Building Code</u>, as adopted in Section 1420.03, and a provision of this Building and Housing Code, or any other local ordinance, rule or regulation, the provision of this Building and Housing Code, or the local ordinance, rule or regulation, shall control. In the event of a conflict between any of the provisions of the <u>BOCA</u> <u>National Building Code</u>, as aforesaid, or a provision of this Building and Housing Code, or any other local ordinance, rule or regulation, and a provision of any State law, rule or regulation, the State law, rule or regulation shall control.

1420.13 AMENDMENTS OF BOCA CODE.

The BOCA National Building Code, as adopted in Section 1420.03, is hereby amended and supplemented as set forth in this section:

SECTION 101.0 SCOPE (amendment)

<u>BOCA 101.1 Title</u>: These regulations as set forth herein shall be known as the Highland Park Building Code and are herein referred to as such or as this Code.

SECTION 112.0 FEES (amendment)

<u>BOCA 112.3.1 Fee schedule</u>: The fees for all plan examinations, building permits and inspections shall be as established from time to time by resolution of Council.

SECTION 114.0 PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES (amendment)

BOCA 114.1 General: All design for new construction work, alteration, repair, expansion, addition or modification work involving the practice of professional architecture or engineering shall be as defined by Act 299 of the Public Acts of 1980, as amended, being Sections 339.101 et seq. of the Michigan Compiled Laws, and known as the Occupational Code, and as administered by the Department of Licensing and Regulation. All plans, computations and specifications required for a building permit application for such work shall be prepared by or under the direct supervision of a registered architect or engineer and bear that architect's or engineer's signature and seal in accordance with the Occupational Code.

SECTION 116.0 VIOLATIONS (amendment)

BOCA 116.4 Violation penalties: The penalty section of the BOCA National Building Code is superseded by Section 1420.07 of the Codified Ordinances of the City, consistent with Section 23 of Act 230 of the Public Acts of 1972, as amended, the Michigan State Construction Code.

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SECTION 117.0 STOP WORK ORDER (amendment)

BOCA 117.2 Unlawful continuance: Any person who continues any work in or about the structure after having been served with a stop work order, exept such work as he or she is directed to perform to remove a violation or unsafe condition, shall be subject to the penalty provisions specified in Section 1420.07 of the Codified Ordinances of the City, consistent with Section 23 of Act 230 of the Public Acts of 1972, as amended, the Michigan State Construction Code.

SECTION 119.0 UNSAFE STRUCTURES AND EQUIPMENT (addition) BOCA 119.1.1 Definition of "unsafe structure": For the purpose of this Code, any building or structure which has any or all of the following described conditions shall be deemed an unsafe structure:

- (1) Whenever any door, aisle, passageway, stairway or other means of exit is not of sufficient width or size and is not so arranged as to provide safe and adequate means of exit in case of fire or panic for all persons housed or assembled therein who would be required to use such door, aisle, passageway, stairway or other means of exit;
- (2) Whenever any portion of a structure has been damaged by wind, flood, fire or any other cause in such a manner that the structural strength or stability is appreciably less than it was before such catastrophe and is less than the minimum requirements of this chapter;
- (3) Whenever any portion or appurtenance thereof is likely to fall, become detached or dislodged or collapse and thereby injure persons or damage property;
- (4) Whenever any portion thereof has settled to such an extent that a wall or other structural portions have materially less resistance to winds than is required in the case of new construction;
- (5) Whenever the building or structure or any part thereof, because of dilapidation, deterioration, decay or faulty construction, or because of the removal or movement of some portion of the ground necessary for the purpose of supporting such building or portion thereof, or for other reason, is likely to partially or completely collapse, or whenever some portion of the foundation or underpinning is likely to fall or give way;
- (6) Whenever, for any reason whatsoever, the building or structure or any portion thereof is manifestly unsafe for the purpose for which it is used;
- (7) Whenever the building or structure has been so damaged by fire, wind or flood, or has become so dilapidated or deteriorated, as to become an attractive nuisance to children who might play therein to their danger, or as to afford a harbor for vagrants, criminals or immoral persons, or as to enable persons to resort thereto for the purpose of committing a nuisance or an unlawful or immoral act;

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- (8) Whenever a building or structure used or intended to be used for dwelling purposes, because of dilapidation, decay, damage or faulty construction or arrangement or otherwise, is unsanitary or unfit for human habitation, or is in a condition that is likely to cause sickness or disease when so determined by the Health Officer, or likely to cause injury to the health, safety or general welfare of those living within; or
- (9) Whenever any building becomes vacant, dilapidated and open at a door or window, leaving the interior of the building exposed to the elements or accessible to entrance by trespassers.

SECTION 121.0 MEANS OF APPEAL (amendment) BOCA 121.1 Application for appeal: The appeal process section of the BOCA National Building Code is superseded by the procedures specified in Chapter 1440 of the Codified Ordinances of the City.

SECTION 122.0 DEMOLITION OF UNSAFE BUILDINGS (additions) <u>BOCA 122.1 Demolition of unsafe buildings; general</u>: The Building Official may order the owner of premises upon which is located any structure or part thereof which is unsafe, as defined in Section 119.1.1, to raze and remove such structure or part thereof, or, if it can be made safe by repairs, to make the structure safe and sanitary, or, where there has been a cessation of normal construction of any structure for a period of more than two years, to raze and remove such structure or part thereof.

BOCA 122.2 Unsafe buildings; unreasonable repairs: Whenever the Building Official determines that the cost of such repairs would exceed 100 percent of the current value of such structure, such repairs shall be presumed unreasonable and it shall be presumed that such structure is a public nuisance which may be ordered razed without option on the part of the owner to repair.

<u>BOCA 122.3 Unsafe buildings; order:</u> The order shall specify a time in which the owner shall comply therewith and specify repairs, if any. It shall be served on the owner of record, or an agent where an agent is in charge of the building, and upon the holder of any encumbrance of record, in the manner provided for service of a summons by a court of record. If the owner or a holder of an encumbrance of record cannot be found, the order may be served by posting it on the main entrance of the building and by publishing it once a week for three successive weeks in a newspaper authorized to provide service by publication.

<u>BOCA 122.4 Unsafe buildings; restraining actions:</u> Anyone affected by any such order shall, within 30 days after service of such order, apply to a court of record for an order restraining the Building Official from razing and removing such structure or parts thereof. The court shall determine whether the order of the Building Official is reasonable. If found reasonable, the court shall dissolve the restraining order; if not found reasonable, the court shall continue the restraining order or modify it as the circumstances may require.

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BOCA 122.5 Unsafe buildings; failure to comply: Whenever the owner of a property fails to comply with a demolition order within the time prescribed, the Building Official shall cause the structure or part thereof to be razed and removed, either through an available public agency or by contract or arrangement with private persons, and the cost of such razing and removal shall be charged against the real estate upon which the structure is located and shall be a lien upon such real estate.

BOCA 122.6 Unsafe buildings; salvage materials: When any structure has been ordered razed and removed, Council, or another designated officer under such contract or arrangement aforesaid, may sell the salvage and valuable materials at the highest price obtainable. The net proceeds of such sale, after deducting the expenses of such razing and removal, shall be promptly remitted with a report of such sale or transaction, including the items of expense and the amounts deducted, for the use of the person who may be entitled thereto, subject to any order of a court. If such a surplus does not remain to be turned over, the report shall so state.

SECTION 123.0 CONTRACTORS' LICENSES (additions)

<u>BOCA 123.1 Licenses; contractors</u>: All contractors performing work in the City covered under this chapter shall register with the City in the office of the Engineer-ing Division.

<u>BOCA 123.2 Licenses; fees;</u> All contractors shall be required to pay a fee for registration or license; such fee shall be established by resolution of Council.

<u>BOCA 123.3 Licenses; qualifications</u>: All contractors shall possess a State Contractor's license for the trade in which they are principally involved, prior to making application to the City for a City license or registration.

SECTION 925.0 SMOKE DETECTORS (additions)

<u>BOCA</u> 925.1 Smoke detectors required: Each apartment, suite or sleeping area of every single-family, two-family or multifamily dwelling, boarding house, hotel or motel shall be equipped with a minimum of one smoke detector capable of sensing visible or invisible particles of combustion. The detector shall be approved by a recognized independent testing laboratory. When activated, the detector shall provide an alarm suitable to warn the occupants within the individual dwelling unit. A minimum of one detector shall be located in or adjacent to all sleeping quarters.

BOCA 925.2 Smoke detectors; installation date: All existing dwellings with two or more dwelling units were required to comply with Section 925.1 by December 28, 1979, which was six months after the effective date of Ordinance No. 1081. All existing single-family dwellings were required to comply with Section 925.1 by June 28, 1982, which was three years after the effective date of Ordinance No. 1981. No permit shall be issued for any major alteration or addition to any single-family residence unless the property is brought into compliance with the requirements of Section 925.1.

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<u>BOCA 925.3 Smoke detectors; maintenance</u>: Each detector installed in compliance with Section 925.1 shall be maintained in an operational manner and in accordance with NFiPA Standards and manufacturer's standards.

SECTION 3102.0 SIGNS (amendment)

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BOCA 3102.10.2 Projecting signs; maximum projection: A projecting sign shall not extend across a property line or more than twelve inches into a public right of way.

SECTION 3310.0 DEMOLITION AND EXCAVATION (amendment)

<u>BOCA 3310.6 Deep excavations</u>: Whenever an excavation is made to a depth of more than 12 feet below the established curb, the person who causes such excavation to be made, if afforded the necessary license to enter the adjoining premises, shall preserve and protect from injury at all times, and at his own expense, such adjoining structure or premises which may be affected by the excavation. If the necessary license is not afforded, it shall then be the duty of the owner of the adjoining premises to make his building or structure safe by installing proper underpinning or foundations or otherwise. Such owner, if it be necessary for the prosecution of his work, shall be granted the necessary license to enter the premises where the excavation or demolition is contemplated.

<u>BOCA 3310.7 Shallow excavations</u>: Whenever an excavation is made to a depth less than 12 feet below the curb, the owner of a neighboring building or structure, the safety of which may be affected by the proposed excavation, shall preserve and protect his or her structure from injury and shall support the same by the necessary underpinning or foundations. If necessary for that purpose, such owner shall be afforded a license to enter the premises where the excavation is contemplated. **CITY OF HIGHLAND PARK**



Hubert Yopp, Mayor Department of Community & Economic Development

RESOLUTION TO ADOPT FEE SCHEDULE FOR CITY BUILDING SERVICES

WHEREAS, the City of Highland Park has adopted a City Code containing a Building Code, Property Maintenance Code, and other provisions to protect the public health safety and welfare: and

WHEREAS, it is provided in said Code that the City Council, by resolution, shall establish reasonable fees to be charged by the City for acts and services performed there under; and

WHEREAS, in accordance with the Charter of the City of Highland Park, it is provided that the City Council shall adopt a Budget for the fiscal year, appropriate funds for said purposes and provide for a levy of taxes for said Budget appropriations; and

NOW, THEREFORE, BE IT RESOLVED that the following schedule of fees be, and hereby are, determined and established as follows and that the following schedule of fees shall supersede and replace all previous fee schedules for the services so listed:

AYES:	5	NAYS:	-0-

Certified by City Clerk

Brenda Green, City Clerk/ Cidia Wicker-Brown, Deputy Clerk

> Robert B. Blackwell Municipal Building 12050 Woodward Avenue Highland Park, Michigan 48203 313-252-0050 ext. 257 313-852-7320 fax

ORDINANCE NO. 2016-

An Ordinance to amend the Highland Park City Building Code, Chapters 1420, 1422, 1424 and 1428, and by adopting Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.) and to provide a means for the city to promote, protect and safeguard the public health, safety and welfare of its citizens.

WHEREAS, the City of Highland Park wishes to amend a local Ordinance adopting Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.).

WHEREAS, the Charter for the City of Highland Park provides that Council has the authority to enact all ordinances they deem necessary for the safety, order, and good government of the City and the general welfare of the inhabitants

NOW, THEREFORE, THE CITY OF HIGHLAND PARK ORDAINS:

• CONSTRUCTION CODES: PART 1420

Pursuant to the provisions of the State Building Code, in accordance with Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.) the City of Highland Park hereby assumes the responsibility for the administration and enforcement of that act and code throughout its corporate limits. The building official of the City of Highland Park is designated as the enforcing agency to discharge the responsibilities of the city under the Act.

• PLUMBING CODE: PART 1422

Pursuant to the provisions of the State Plumbing Code, in accordance with Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.) the City of Highland Park hereby assumes the responsibility for the administration and enforcement of that act and code throughout its corporate limits. The building official of the City of Highland Park is designated as the enforcing agency to discharge the responsibilities of the city under the Act.

• MECHANICAL CODE PART: 1424

Pursuant to the provisions of the State Mechanical Code, in accordance with Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.) the City of Highland Park hereby assumes the responsibility for the administration and enforcement of that act and code throughout its corporate limits. The building official of the City of Highland Park is designated as the enforcing agency to discharge the responsibilities of the city under the Act.

• ELECTRICAL CODE PART: 1428

Pursuant to the provisions of the State Electrical Code, in accordance with Public Act No. 230, of the Acts of 1972, (MCL 125.1501 et seq.) the City of Highland Park hereby assumes the responsibility for the administration and enforcement of that act and code throughout its corporate limits. The building official of the City of Highland Park is designated as the enforcing agency to discharge the responsibilities of the city under the Act.

Yeas: <u>5</u> Nays: <u>0</u>

Date: September 6, 2016

Certified by the City Clerk

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Cidia Wicker-Brown, Deputy

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Nov. 3. 2008 1:35PM 02/24/2003 14:59 No. 8682 517-482-8750 P. 2 LAZAR DRO, ISEC, & LAND DEV. PAGE 01 Fax:517-241-8371 Feb 24 '03 14:57 P.02 92.2.W 341-6371 ¥~~

Air ordinance to repeat City of Highland Park Building, Electrical, Mechanical and Plumbing Code Enforcement Authority Administration and enforcement of its Building, Electrical, Mechanical and Plumbing to the Bureau of Construction Codes under the provisions of the State Construction Code Act (Act 230 of the Public Acts of 1972, as amended).

I'he City of Highland Patk ordains:

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Nection 1. Pursuant to the provisions of Section 8b (7) of the State Construction Code Ast of 1972, as amended, the City of Highland Fark hereby transfers responsibility for the administration and enforcement of its Building, Electrical, Mechanical and Plumbing cude provisions to the Bureau of Construction Codes.

Section 2. All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

Section 3. This ordinance shall be effective immediately upon legal publication, in accordance with provisions of the Act governing same.

Date HUN าลขนาง Title

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RICK SNYDER GOVERNOR STATE OF MICHIGAN EXECUTIVE OFFICE LANSING

BRIAN CALLEY LT. GOVERNOR

April 28, 2014

DeAndre Windom, Mayor City of Highland Park 12050 Woodward Avenue Highland Park, Michigan 48203-3578

Highland Park City Council 12050 Woodward Avenue Highland Park, Michigan 48203-3578

Dear Mayor Windom and Highland Park City Councilmembers:

On January 24, 2014, the City of Highland Park Financial Review Team transmitted its report to my Office. The report concluded, pursuant to Section 5(4)(b) of Public Act 436 of 2012, the Local Financial Stability and Choice Act, that a financial emergency exists within the City.

On January 30, 2014, I concurred in the assessment of the Financial Review Team and determined, pursuant to Section 6(1) of the Act, that a financial emergency exists within the City. My January 30, 2014, letter of determination set forth the findings of fact upon which my determination was based and also provided notice of the City's right to request a hearing upon the determination.

On February 3, 2014, the City Council by resolution requested a hearing upon the determination of a financial emergency in the City, pursuant to Section 6(2) of the Act. The hearing was conducted on February 11, 2014, before State Treasurer R. Kevin Clinton.

On February 24, 2014, the State Treasurer submitted to me his report concerning the testimony and information received at the hearing. Having carefully reviewed the record of that hearing, and pursuant to Section 6(2) of the Act, I hereby confirm my determination that a financial emergency exists in the City of Highland Park.

The testimony presented on behalf of the City of Highland Park Financial Review Team by Frederick Headen, Legal Advisor to the State Treasurer and member of the Review Team, documented the financial condition of the City, which I summarize as follows:

- During the City's 2013 fiscal year, the ending balance in the Water and Sewer fund increased from a negative \$5.5 million as of June 30, 2012, to a negative \$12.5 million as of June 30, 2013. This increase in the negative fund balance was attributable to a \$7.7 million operating loss during the 2013 fiscal year which was offset slightly by a \$771,000 transfer from the General Fund.
- As of October 31, 2013, the City owed approximately \$19.5 million in total accounts payable to various venders. This total included an estimated \$18.2 million owed to the City of Detroit for water and sewer services; \$311,380 owed to DTE Energy; \$142,265 owed to Wayne County

DeAndre Windom, Mayor Highland Park City Council April 28, 2014 Page 2

for property assessing; \$125,370 owed to Wayne County for prisoner maintenance; \$105,667 owed to the City of Hamtramck for municipal income tax collection and administration; and \$101,284 owed to the State of Michigan for principal and interest upon outstanding emergency loans.

In fact, according to information provided by City officials to the Review Team, accounts payable increased by more than \$756,000 during just a one-month period, from September 30, 2013 to October 31, 2013. This increase was due primarily to water and sewer services provided by the City of Detroit.

- On November 22, 2013, the City of Detroit Water and Sewer Department filed a lawsuit in United States District Court against the City of Highland Park for an estimated \$17.7 million in delinquent accounts payable (consisting of \$16.9 million for unpaid sewer service and \$805,000 for unpaid water service). On December 30, the Court dismissed the majority of the lawsuit, but upon subject-matter jurisdiction grounds. In other words, the Court concluded that the lawsuit should have been filed in State court rather than in Federal court.
- On December 12, 2013, Fifth Third Bank served written notice upon City officials that failure by them to timely pay the City of Detroit for water and sewer services constituted an "event of default" upon a letter of credit extended by the Bank. The written notice also indicated that the bank would, beginning in January 2014, deny City officials access to bond proceeds on deposit with the Bank that City officials had been utilizing to remit certain monthly pension obligations. Since the Review Team filed its report, the Bank essentially has seized the remaining bond proceeds, forcing City officials to find other sources from which to pay certain monthly pension obligations.
- The City has a relatively high property tax millage rate and, correspondingly, a relatively low
 property tax collection rate. For example, during the 2012 calendar year, the City levied an
 aggregate of 59.7258 mills for various purposes (e.g., operations, garbage collection,
 pensions, and judgments). However, according to City officials, the City collected on
 average only 60 percent of property taxes levied. The remaining 40 percent of property
 taxes not collected for a given year were returned delinquent to the Wayne County
 Treasurer's Office for collection; but remained the responsibility of the City if not collected by
 the County.
- The City's 2013 fiscal year financial audit raised a specific doubt about the ongoing financial viability of the City. Noting that the City "has a significant net deficit in the Water and Sewer Fund at June 30, 2013," the financial audit stated that "[t]his condition raises substantial doubt about the City's ability to continue as a going concern."
- During the 2013 fiscal year, city officials violated Public Act 2 of 1968, the Uniform Budgeting and Accounting Act, by engaging in unbudgeted expenditures in several funds.
- City officials had been consistently unable to issue timely and accurate bills to residential and commercial users of water and sewer services, in some instances for up to two years. One City official had expressed to the Review Team the belief that up to 80 percent of the

DeAndre Windom, Mayor Highland Park City Council April 28, 2014 Page 3

water and sewer accounts were delinquent, either because the City had not issued a bill or because the user had received a bill, but had not remitted the amount due.

It was noted that the present City administration had made a decision to stop issuing water and sewer bills altogether because of concerns over the accuracy of some of the bills that had been issued. Whether due to the City's delinquency in issuing accurate bills, an inability of residents to pay, or other factors, City officials had estimated that \$8.5 million in water and sewer bills were uncollectible. This represented 73 percent of the total Water and Sewer Fund receivables as reported in the City's June 30, 2013 audited financial statements.

The City's testimony was presented by City Attorney Todd Perkins, Mayor DeAndre Windom, City Council President Christopher Woodard, and Finance Director Earnestine Williams. Michigan Senator Bert Johnson also testified on behalf of the City.

City officials did not contest the findings of the Review Team report. However, Senator Johnson did question the accuracy of some of the accounts payable owed by the City. In particular, he questioned the amount owed to the City of Detroit for water and sewer services. However, he offered no countervalling evidence in support of his position. Furthermore, the accounts payable amounts contained in the Review Team report were provided to the Review Team by the City of Highland Park.

The testimony of City officials also expressed the view that they had formulated a plan to address the financial emergency. The essence of the testimony presented on behalf of the City was that City officials had made progress in addressing pension funding issues and financial reforms and could continue to make further progress if given additional time and State assistance.

However, as the State Treasurer set forth in his report summarizing the hearing, nothing presented by City officials at the hearing disturbed the Review Team's conclusion, and my subsequent determination, that a financial emergency exists within the City. Therefore, pursuant to Section 6(2) of the Act, I confirm my determination that a financial emergency exists within the City of Highland Park.

Pursuant to Section 7(1) of the Act, the Highland Park City Council must within seven days of the date of this confirmation adopt a resolution that selects one of the following four statutory options to address the financial emergency:

- (a) The Consent Agreement option pursuant to Section 8 of the Act.
- (b) The Emergency Manager option pursuant to Section 9 of the Act.
- (c) The Neutral Evaluation Process option pursuant to Section 25 of the Act.
- (d) The Chapter 9 Bankruptcy option pursuant to Section 26 of the Act.

DeAndre Windom, Mayor Highland Park City Council April 28, 2014 Page 4

The deadline by which the Highland Park City Council must submit an adopted resolution selecting one of the foregoing statutory options is 5:00 P.M., Monday May 5, 2014. The resolution must be submitted to the Michigan Department of Treasury, Office of Legal Affairs, Richard H. Austin Building, First Floor, 430 West Allegan Street, Lansing, MI 48922. The e-mail address is <u>MIStateTreasurer@michigan.gov</u>. Pursuant to Section 7(3) of the Act, if the City Council fails or refuses to select a statutory option by the deadline, the City will be required to proceed under the Neutral Evaluation Process.

Sincerely,

Soder

Rick Snyder Governor



CITY OF HIGHLAND PARK Return to Excellence... DeAndre Windom Mayor

September 2, 2014

Mr. Rick Snyder, Governor Executive Office State Capitol Lansing, MI 48901

Mr. R. Kevin Clinton, State Treasurer Michigan Department of Treasury Richard H. Austin Building, 1st Floor 430 West Allegan Street P.O. Box 15128 Lansing, MI 48901

Re: City of Highland Park - Submission of Plan of Adjustment and or Readjustment

Dear Governor Snyder and Treasurer Clinton:

Pursuant to your determination that a financial emergency exists within the City of Highland Park and the subsequent selection of the Neutral Evaluation Process by the Highland Park City Council, I hereby submit the City's Plan of Adjustment and or Readjustment dated August 28, 2014 (the "Plan") which was adopted at a duly called and noticed special meeting held at City Hall on Thursday, August 28, 2014 at 4:30 p.m.

The Neutral Evaluation Process which began May 29, 2014 proved to be challenging but the City has undoubtedly resolved all pending disputes with its Interested Parties as required in subsection 23 of Section 25 of Public Act 436 of 2012.

I have also enclosed a certified copy of the resolution passed by City Council approving the City's Plan of how the City of Highland Park will address its outstanding obligations. We now submit the Plan to your office for final approval.

I am happy to answer any questions regarding the enclosed Plan,

Respectfully,

DeAndre Windom, Mayor City of Highland Park

12050 Woodward Avenue • Highland Park, MI 48203 (313) 252-0050 ext. • (313) 852-7320 Fax www.highlandoarkcitv.us



CITY OF HIGHLAND PARK Return to Excellence,.. DeAndre Windom Mayor

cc: Senator Bert Johnson – 2nd Senate District
 State Representative Thomas F. Stallworth III – 7th House District
 Members of the City of Highland Park Council
 Wayne L. Workman, Michigan Department of Treasury, Bureau of Local Government
 William F. Pettit, Office of the Attorney General – Finance Division
 Dennis Muchmore, Chief of Staff to Governor Snyder

12050 Woodward Avenue • Highland Park, MI 48203 (313) 252-0050 ext. • (313) 852-7320 Fax www.bighlandparkeity.us 72 (Rev. 11-13)



STATE OF MICHIGAN DEPARTMENT OF TREASURY LANSING

RICK SNYDER GOVERNOR R, KEVIN CLINTON STATE TREASURER

September 29, 2014

Mayor DeAndre Windom City of Highland Park 12050 Woodward Ave. Highland Park, MI 48203

Mayor Windom,

I am in receipt of your proposed settlement agreement dated August 28, 2014. Reflecting on the neutral evaluation process as facilitated by Ronald Rose, I am encouraged by the possibilities for financial sustainability and operational reform detailed in your submitted document.

In the months ahead, the Department of Treasury expects to work closely with the City in order to monitor and assist in the actual implementation of the settlement agreement.

Sincerely,

Wayne L. Workman

Wayne Workman Deputy State Treasurer

CC: Highland Park City Council R. Kevin Clinton, State Treasurer Senator Bert Johnson, 2nd Senate District Dennis Muchmore, Chief of Staff to Governor Rick Snyder

> 430 WEST ALLEGAN STREET • LANSING, MICHIGAN 48922 www.michigan.gov/ireasury • (517) 373-3200

CRAIN'S DETROIT BUSINESS

Detroit and Southeast Michigan's premier business news and information website

July 17, 2009 9:59 PM

Highland Park returned to local control, for now

By The Associated Press

HIGHLAND PARK (AP) — The state has returned control of Highland Park's finances to local elected officials and department heads — at least for now.

The **Michigan Department of Treasury** says that although emergency financial manager Robert Mason's 90-day term is expiring Friday, the declaration of a financial emergency declared in 2001 remains in place.

The department says it has authority to name another financial manager for the 16,000-resident community surrounded by Detroit if the mayor and City Council don't meet criteria laid out by Mason during the next year.

Mason was appointed after the state fired former emergency financial manager Arthur Blackwell in April amid allegations he authorized \$264,000 in city payments to himself not approved by the state. Use of editorial content without permission is strictly prohibited. All rights Reserved 2016 www.crainsdetroit.com MENU

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TREASURY

Highland Park Returned to Local Control

Contact: Terry Stanton, (517) 335-2167 Agency: Treasury

The Local Emergency Financial Assistance Loan Board (ELB) has announced that the 90-day term for Highland Park's Second Successor Emergency Financial Manager, Robert Mason, will expire at the close of business today. At that time, authority over the city's finances will be returned to locally-elected officials and department heads, while the declaration of a financial emergency will remain in place pursuant to Public Act 72 of 1990.

"This has been a long and sometimes difficult process for the residents of Highland Park," said State Treasurer Robert J. Kleine, Chair of the Emergency Loan Board. "Despite the ups and downs, Highland Park residents should be pleased that their elected representatives are committed to working together to ensure a return to selfgovernance in the not-too-distant future."

While local officials will assume control of the city's finances, the Mayor and City Council President have represented to Mr. Mason that they will abide by a number of provisions laid out to them in Mr. Mason's Final Directive. Should any of the provisions not be followed or acted upon, the Emergency Loan Board has authority to again place an Emergency Financial Manager into Highland Park. If the provisions are successfully carried out by Highland Park during the next year, the Emergency Loan Board will recommend to Governor Granholm that the declaration of financial emergency be lifted.

The Department of Treasury first conducted a review of Highland Park's finances in 1996. The city has been under the authority of an Emergency Financial Manager since 2001.

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State of Michigan



More About Flint Water



LOCAL FINANCIAL STABILITY AND CHOICE ACT (EXCERPT) Act 436 of 2012

141.1565 Neutral evaluation process.

8 - C.

Sec. 25. (1) A neutral evaluation process may be utilized as provided for in this act. The state treasurer may, in his or her own discretion, determine that the state monitor the neutral evaluation process initiated by a local government under this section and may identify 1 or more individuals who may attend and observe the neutral evaluation process. A local government shall initiate the neutral evaluation process by providing notice by certified mail of a request for neutral evaluation process to all interested parties. If the local government does not provide notice under this subsection to all interested parties within $\overline{7}$ days after selecting the neutral evaluation process option, the treasurer may require the local government to go into receivership and proceed under section 9.

(2) An interested party shall respond within 10 business days of receipt of notice of the local government's request for neutral evaluation process.

(3) The local government and the interested parties agreeing to participate in the neutral evaluation process shall, through a mutually agreed-upon process, select a neutral evaluator to oversee the neutral evaluation process and facilitate all discussions in an effort to resolve their disputes.

(4) If the local government and interested parties fail to agree on a neutral evaluator within 7 days after the interested parties have responded to the notification sent by the local government, the local government shall, within 7 days, select 5 qualified neutral evaluators and provide their names, references, and backgrounds to the participating interested parties. Within 3 business days, a majority of participating interested parties may disqualify up to 4 names from the list. If a majority of participating interested parties disqualify 4 names from the list, the remaining candidate shall be the neutral evaluator. If the majority of participating parties disqualify fewer than 4 names, the local government shall choose which of the remaining candidates shall be the neutral evaluator.

(5) If an interested party objects to the qualifications of the neutral evaluator after the process for selection in subsection (4) is complete, the interested party may appeal to the state treasurer to determine if the neutral evaluator meets the qualifications under subsection (6). If the state treasurer determines that the qualifications have been met, the neutral evaluation process shall continue. If the state treasurer determines that the qualifications have not been met, the state treasurer shall select the neutral evaluator.

(6) A neutral evaluator shall have experience and training in conflict resolution and alternative dispute resolution and have at least 1 of the following qualifications:

(a) At least 10 years of high-level business or legal experience involving bankruptcy or service as a United States bankruptcy judge.

(b) At least 10 years of combined professional experience or training in municipal finance in 1 or more of the following areas:

(i) Municipal organization.

(ii) Municipal debt restructuring.

(iii) Municipal finance dispute resolution.

(iv) Chapter 9 bankruptcy.

(v) Public finance.

(vi) Taxation.

(vii) Michigan constitutional law.

(viii) Michigan labor law.

(ix) Federal labor law.

(7) The neutral evaluator's performance shall be impartial, objective, independent, and free from prejudice. The neutral evaluator shall not act with partiality or prejudice based on any participant's personal characteristics, background, values, or beliefs, or performance during the neutral evaluation process.

(8) The neutral evaluator shall avoid a conflict of interest and the appearance of a conflict of interest during the neutral evaluation process. The neutral evaluator shall make a reasonable inquiry to determine whether there are any facts that a reasonable individual would consider likely to create a potential or actual conflict of interest. Notwithstanding subsection (16), if the neutral evaluator is informed of the existence of any facts that a reasonable individual would consider likely to create a potential or actual conflict of interest, the neutral evaluator shall disclose these facts in writing to the local government and all interested parties involved in the neutral evaluation process. If any participating interested party to the neutral evaluation process objects to the neutral evaluator, that interested party shall notify the local government and all other participating interested parties to the neutral evaluation process, including the neutral evaluator, within 15 days of receipt of the notice from the neutral evaluator. The neutral evaluator shall withdraw, and a new neutral evaluator shall be Rendered Friday, August 12, 2016 Page 1 Michigan Compiled Laws Complete Through PA 280 of 2016 Courtesy of www.legislature.mi.gov

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selected as provided in subsections (3) and (4).

(9) Before commencing a neutral evaluation process, the neutral evaluator shall not establish another fiscal or fiduciary relationship with any of the interested parties or the local government in a manner that would raise questions about the integrity of the neutral evaluation process, except that the neutral evaluator may conduct further neutral evaluation processes regarding other potential local public entities that may involve some of the same or similar constituents to a prior mediation.

(10) The neutral evaluator shall conduct the neutral evaluation process in a manner that promotes voluntary, uncoerced decision making in which each participant makes free and informed choices regarding the neutral evaluation process and outcome.

(11) The neutral evaluator shall not impose a settlement on the participants. The neutral evaluator shall use his or her best efforts to assist the participants to reach a satisfactory resolution of their disputes. Subject to the discretion of the neutral evaluator, the neutral evaluator may make oral or written recommendations for a settlement or plan of readjustment to a participant privately or to all participants jointly.

(12) The neutral evaluator shall inform the local government and all participants of the provisions of chapter 9 relative to other chapters of title 11 of the United States Code, 11 USC 101 to 1532. This instruction shall highlight the limited authority of United States bankruptcy judges in chapter 9, including, but not limited to, the restriction on federal bankruptcy judges' authority to interfere with or force liquidation of a local government's property and the lack of flexibility available to federal bankruptcy judges to reduce or cram down debt repayments and similar efforts not available to reorganize the operations of the local government that may be available to a corporate entity.

(13) The neutral evaluator may request from the participants documentation and other information that the neutral evaluator believes may be helpful in assisting the participants to address the obligations between them. This documentation may include the status of funds of the local government that clearly distinguishes between general funds and special funds and the proposed plan of readjustment prepared by the local government. The participants shall respond to a request from the neutral evaluator in a timely manner.

(14) The neutral evaluator shall provide counsel and guidance to all participants, shall not be a legal representative of any participant, and shall not have a fiduciary duty to any participant.

(15) If a settlement with all interested parties and the local government occurs, the neutral evaluator may assist the participants in negotiating a pre-petitioned, pre-agreed-upon plan of readjustment in connection with a potential chapter 9 filing.

(16) If at any time during the neutral evaluation process the local government and a majority of the representatives of the interested parties participating in the neutral evaluation process wish to remove the neutral evaluator, the local government or any interested party may make a request to the other interested parties to remove the neutral evaluator. If the local government and a majority of the interested parties agree that the neutral evaluator should be removed and agree on who should replace the neutral evaluator, the local government and the interested parties shall select a new neutral evaluator.

(17) The local government and all interested parties participating in the neutral evaluation process shall negotiate in good faith.

(18) The local government and each interested party shall provide a representative to attend all sessions of a neutral evaluation process. Each representative shall have the authority to settle and resolve disputes or shall be in a position to present any proposed settlement or plan of readjustment to the participants in the neutral evaluation process.

(19) The local government and the participating interested parties shall maintain the confidentiality of the neutral evaluation process and shall not at the conclusion of the neutral evaluation process or during any bankruptcy proceeding disclose statements made, information disclosed, or documents prepared or produced unless a judge in a chapter 9 bankruptcy proceeding orders that the information be disclosed to determine the eligibility of a local government to proceed with a bankruptcy proceeding under chapter 9, or as otherwise required by law.

(20) A neutral evaluation process authorized by this act shall not last for more than 60 days following the date the neutral evaluator is initially selected, unless the local government or a majority of participating interested parties elect to extend the neutral evaluation process for up to 30 additional days. The neutral evaluation process shall not last for more than 90 days following the date the neutral evaluator is initially selected.

(21) The local government shall pay 50% of the costs of a neutral evaluation process, including, but not limited to, the fees of the neutral evaluator, and the interested parties shall pay the balance of the costs of the neutral evaluation process, unless otherwise agreed to by the local government and a majority of the interested parties.

(22) The neutral evaluation process shall end if any of the following occur:

 Rendered Friday, August 12, 2016
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 Michigan Compiled Laws Complete Through PA 280 of 2016

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(a) The local government and the participating interested parties execute a settlement agreement. However, if the state treasurer determines that the settlement agreement does not provide sufficient savings to the local government, the state treasurer shall provide notice to the local government that the settlement agreement does not provide sufficient savings to the local government and the local government shall proceed under 1 of the other local government options as provided in section 7.

(b) The local government and the participating interested parties reach an agreement or proposed plan of readjustment that requires the approval of a bankruptcy judge.

(c) The neutral evaluation process has exceeded 60 days following the date the neutral evaluator was selected, the local government and the participating interested parties have not reached an agreement, and neither the local government nor a majority of the interested parties elect to extend the neutral evaluation process past the initial 60-day time period.

(d) The local government initiated the neutral evaluation process under subsection (1) and did not receive a response from any interested party within the time specified in subsection (2).

(e) The fiscal condition of the local government deteriorates to the point that necessitates the need to proceed under the chapter 9 bankruptcy option pursuant to section 26.

(23) If the 60-day time period for a neutral evaluation process expires, including any extension of the neutral evaluation process past the initial 60-day time period under subsection (20), and the neutral evaluation process is complete with differences resolved, the neutral evaluation process shall be concluded. If the neutral evaluation process does not resolve all pending disputes with the local government and the interested parties, or if subsection (22)(b), (c), or (d) applies, the governing body of the local government shall adopt a resolution recommending that the local government proceed under chapter 9 and submit the resolution to the governor and the state treasurer. Except as otherwise provided in this subsection, if the local government has a strong mayor, the resolution requires strong mayor approval before the local government proceeds under chapter 9. The resolution shall include a statement determining that the financial condition of the local government jeopardizes the health, safety, and welfare of the residents who reside within the local government or service area of the local government absent the protections of chapter 9. If the governor approves the resolution for the local government to proceed under chapter 9, the governor shall inform the local government in writing of the decision. The governor may place contingencies on a local government in order to proceed under chapter 9 including, but not limited to, appointing a person to act exclusively on behalf of the local government in the chapter 9 bankruptcy proceedings. If the governing body of the local government fails to adopt a resolution within 7 days after the neutral evaluation process is concluded as provided in this subsection, the governor may appoint a person to act exclusively on behalf of the local government in chapter 9 bankruptcy proceedings. If the governor does not appoint a person to act exclusively on behalf of the local government in chapter 9 bankruptcy proceedings, the chief administrative officer of the local government shall act exclusively on behalf of the local government in chapter 9 bankruptcy proceedings. Upon receiving written approval from the governor under section 26, the local government may file a petition under chapter 9 and exercise powers under federal bankruptcy law.

History: 2012, Act 436, Eff. Mar. 28, 2013.

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Compiler's note: Enacting section 2 of Act 436 of 2012 provides:

"Enacting section 2. It is the intent of the legislature that this act function and be interpreted as a successor statute to former 1988 PA 101, former 1990 PA 72, and former 2011 PA 4, and that whenever possible a reference to former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, under other laws of this state or to a function or responsibility of an emergency financial manager or emergency manager under former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, under other laws of this state or to a function or responsibility of an emergency financial manager or emergency manager under former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, under other laws of this state shall function and be interpreted to reference to this act, with the other laws of this state referencing former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, including, but not limited to, all of the following:

(a) The charter township act, 1947 PA 359, MCL 42.1 to 42.34.

(b) 1966 PA 293, MCL 45.501 to 45.521.

(c) 1851 PA 156, MCL 46.1 to 46.32.

(d) The general law village act, 1895 PA 3, MCL 61.1 to 74.25.

(e) The home rule village act, 1909 PA 278, MCL 78.1 to 78.28.

(f) The fourth class city act, 1895 PA 215, MCL 81.1 to 113.20.

(g) The home rule city act, 1909 PA 279, MCL 117.1 to 117.38.

(h) The metropolitan transportation authorities act of 1967, 1967 PA 204, MCL 124.401 to 124.426.

(i) 1947 PA 336, MCL 423.201 to 423.217."

Leiby, Sara (LARA)

From: Sent:	Mike Setzer <msetzer@villageofbirchrun.com> Friday, June 02, 2017 9:39 AM</msetzer@villageofbirchrun.com>
To:	Leiby, Sara (LARA)
Cc:	Jeff Hugo (mining @hotmail.com); Phil Kerns
Subject:	FW: Tuscola Township, MI - Construction Code Commission July 12th Appearance.
Attachments:	CCG - Tuscola Twp.pdf

Sarah, find attached the information requested from the Construction Code Commission regarding our application to Administer and Enforce the applicable codes for Tuscola Township. Please have your staff contact me with any questions or concerns.

Thanks

Michael Setzer Building & Zoning Administrator 12060 Heath Street P. O. Box 371 Birch Run, MI. 48415 (989) 624-5711 (989) 624-9681 fax

From: Phil Kerns [mailto:pkerns@frankenmuthcity.com]
Sent: Wednesday, May 31, 2017 11:49 AM
To: Mike Setzer
Subject: Fwd: Tuscola Township, MI - Construction Code Commission April 12th Appearance.

See attached.

Phillip W. Kerns **City of Frankenmuth** 240 W. Genesee Street Frankenmuth, MI 48734-1398

Direct Dial: (989) 652-3430, x111 Main Office: (989) 652-9901

BUILDING DEPARTMENT

Station.

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POLICIES AND PROCEDURES

2016

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PREFACE

Nullear C

W. Constant

These policies and procedures are intended to provide a general overview of Building, Plumbing, Mechanical and Electrical code administration activities. This document is not intended to be all inclusive.

BUILDING OFFICIAL

Position Description:

- Same

Supervise / coordinate building, plumbing, mechanical and electrical plan review, inspections, office administration and enforcement activities.

Position Duties:

- Distribute construction documents to plan reviewer's and keep a record of review / mailing schedule
- Render interpretations of the current codes and adopt policies and procedures in order to clarify the application of their provisions.
- Issue notices and orders to assure code compliance.
- Answer questions and address concerns to property owners, design professionals and contractors regarding building, plumbing, mechanical and electrical inspector's duties.
- Review / approve requests for the use of alternate material and methods of construction.
- Coordinates building, plumbing, mechanical and electrical inspections to help assure that construction projects receive minimum required inspections.
- Issues certificates of occupancies when required inspections are complete.
- Assists the inspectors in the enforcement of construction codes.
- Maintain the records of the Building Departments activities.

4

BUILDING INSPECTOR

Position description

Complete inspections of the architectural trades portions of construction documents, construction work in progress and/or completed building projects in an effort to assure that buildings are compliant with the requirements of the Construction Code Act of 1972 (P.A.230) as amended.

Position Duties

- Review submitted construction documents for compliance to applicable building codes. Communicate results of review to the designer.
- Answer questions and address concerns regarding the buildings codes to design professionals, building contractors and homeowners.
- Review building permit applications and process them into a building permit once applicable requirement are met.
- Schedule and conduct site inspections to periodical verify building code compliance. See checklist chapter for general inspection schedule.
- Prepare for on-site posting, inspection notices that list areas of concern which need the permit holder's attention before proceeding.
- Create/maintain project files for each building permit. The file should consist of: construction documents, permit applications, construction permits, inspection notices, inspection record, misc. project information and a certificate of occupancy.
- Conduct enforcement activities to complete required inspections and to assure that inspection notice issues are properly addressed. Enforcement activities may include: Written correspondence, stop work orders, issuance of civil infraction and/or civil litigation.
- Complete at the request of the State of Michigan, investigations of licensed builder complaints. Including written and oral testimony.

PLAN REVIEWER

Position description

A NAME OF CASE

Review submitted construction documents for compliance with applicable construction codes as required by:

- The Construction Code Act of 1972 (P.A. 230) as amended.
- The State Plumbing Act of 2002 (P.A. 733) as amended.
- The Forbes Mechanical Act 192 of 1984 as amended.
- The Electrical Administrative Act 217 of 1956 amended.

Duties for all trade inspectors:

(i.e. Plumbing, Mechanical, Electrical Inspectors)

- Review submitted construction documents
- Prepare for the designer, written documentation of any deficiencies found. Include with the deficiency the applicable code section.
- Answer questions and concerns regarding plan review comments and construction code issues.
- Approve or deny in writing plan review response from the designer. Once the Plan Reviewer approves the plans, construction permits can be issued.
- Maintain project files including: Plan review letter or notes, calculation for fee ordinance as amended, plan review response if in letter form and misc. project information.

PLUMBING INSPECTOR

Position Description:

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• The code official shall enforce all of the provisions of the Michigan Plumbing Code and shall act on any question relative to the installation, alteration, repair, maintenance, or operation of all plumbing systems, devices, and equipment except as specifically provided for by statutory requirements or as provided for other section of the code.

Position Duties:

- Review submitted construction documents for compliance to applicable plumbing codes. Communicate results of review to the designer.
- Answer questions and address concerns regarding the plumbing code to design professionals, building contractors and homeowners.
- Review plumbing permit applications and process them into a plumbing permit once applicable requirement are met.
- Schedule and conduct site inspections to periodical verify plumbing code compliance. See checklist chapter for general inspection schedule.
- Prepare for on-site posting, inspection notices that list areas of concern which need the permit holder's attention before proceeding.
- Create/maintain project files for each plumbing permit. The file should consist of: plumbing documents, permit applications, plumbing permits, inspection notices, inspection record and misc. project information.
- Conduct enforcement activities to complete required inspections and to assure that inspection notice issues are properly addressed. Enforcement activities may include: Written correspondence, stop work orders, issuance of civil infraction and/or civil litigation.
- Complete at the request of the State of Michigan, investigations of licensed plumber complaints. Including written and oral testimony.

MECHANICAL INSPECTOR

Position Description:

• The code official is hereby authorized and directed to enforce the provisions of the Michigan Mechanical Code.

Position Duties:

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- Review submitted construction documents for compliance to applicable mechanical codes. Communicate results of review to the designer.
- Answer questions and address concerns regarding the mechanical code to design professionals, building contractors and homeowners.
- Review mechanical permit applications and process them into a mechanical permit once applicable requirement are met.
- Schedule and conduct site inspections to periodical verify mechanical code compliance. See checklist chapter for general inspection schedule.
- Prepare for on-site posting, inspection notices that list areas of concern which need the permit holder's attention before proceeding.
- Create/maintain project files for each mechanical permit. The file should consist of: mechanical documents, permit applications, mechanical permits, inspection notices, inspection record and misc. project information.
- Conduct enforcement activities to complete required inspections and to assure that inspection notice issues are properly addressed. Enforcement activities may include: Written correspondence, stop work orders, issuance of civil infraction and/or civil litigation.
- Complete at the request of the State of Michigan, investigations of licensed mechanical complaints. Including written and oral testimony

ELECTRICAL INSPECTOR

Position Description:

• The code official shall enforce the provisions of the code and shall act on any question relative to the installation, alteration, repair, maintenance, or operation of electrical wiring and equipment, except as otherwise specifically provided for by statute.

Position Duties:

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- Review submitted construction documents for compliance to applicable NEC and Part 8 Rules. Communicate results of review to the designer.
- Answer questions and address concerns regarding the electrical code to design professionals, building contractors and homeowners.
- Review electrical permit applications and process them into an electrical permit once applicable requirement are met.
- Schedule and conduct site inspections to periodical verify electrical code compliance. See checklist chapter for general inspection schedule.
- Prepare for on-site posting, inspection notices that list areas of concern which need the permit holder's attention before proceeding.
- Create/maintain project files for each electrical permit. The file should consist of: electrical documents, permit applications, electrical permits, inspection notices, inspection record and misc. project information.
- Conduct enforcement activities to complete required inspections and to assure that inspection notice issues are properly addressed. Enforcement activities may include: Written correspondence, stop work orders, issuance of civil infraction and/or civil litigation.
- Complete at the request of the State of Michigan, investigations of licensed electrician complaints. Including written and oral testimony

OFFICE / FIELD PROCEDURES

Construction plan review and inspection personal daily activities are divided between office and field operations. It is the responsibility of the individual to schedule adequate amounts of time to service the needs of the building owner, design professional and contractors in both office and field settings. Each inspectors general schedule will need approval from the Building Official or their designee.

Hours:

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- Office / field times are on an as requested basis depending on the inspections scheduled each day. No holiday inspections are required unless scheduled by the individual inspector.
- Scheduling of office time / field inspections are required to be flexible enough to reasonably serve the needs of our clientele.

Lunch & Breaks:

- At the leisure of the inspector
- Time-Off:
 - It is the responsibility of the person requesting the time-off, to contact the Building Official to schedule qualified persons to cover inspection requests during their absences.

Client Relations:

• Inspectors are expected to treat clients in a courteous and professional manor and respond to their pertinent needs in a timely fashion.

Office Relations:

• Inspectors are expected to treat other office staff in a courteous and professional manor.

Vehicles:

• Inspector vehicles shall be operated in compliance with all local and state laws. Clerical Support:

• It is the intention of the Building Official to provide clerical support to construction code enforcement personal. This support includes answering phones, permit processing and filing. However, this support is to be provided on a work-load permitted basis. Therefore, when construction code enforcement personal are in the office they are to assist in answering phones, permit processing and filing. Clerical support is to be utilized only when clerical staff has ample time to accommodate additional activities.

BUILDING PERMIT APPLICATION REVIEW PROCEDURES

The following outline in intended to guide the Permit Technician through the building permit application for accuracy. This list is not inclusive and may not include all review requirements.

- Application with plans and specifications are received by the administration department, stamped received with a date and assigned to a permit technician.
- The Permit Technician reviews the construction cost and verifies all applicable fees have been received with the application.
- Permit Technician then verifies all information contained in the permit application is accurate to the best of their ability.
- The permit and associated plans are then delivered to a plan review technician for processing.

PLAN REVIEW PROCEDURES

- Once the plans and specifications have been received by the plan reviewer they are placed in order for review.
- The review process should be completed within ten (10) days from their stamped receipt date.
- If the review will take more than ten (10) days then contact with the permit applicant will be required.
- Upon completion, a review comment letter will be sent to both the applicant and Licensed Design Professional if one is in responsible charge of the project.
- Once the comments have been outlined and all issues have been addressed then the plan reviewer will sign and date the plans stating the following:
 *Reviewed for code compliance

*Released for construction.

Name of Street

PERMIT ISSUANCE PROCEDURES

• The signed and dated plans then will be received by the Building Official for permit issuance.

- The Building Official will then issue the permit and send copies to the applicant.
- The Building Official and all inspectors assigned to the project will need to review the plans, specifications and the plan review comments.

CODE VIOLATION/CORRECTION NOTICE PROCEDURE

- Code violations will be reported in detail on the inspection notice.
- The applicable code section should be in the notice.
- One copy of the inspection will be left on the jobsite and/or mailed to the applicant. (this procedure to be discussed with the applicant)
- No further work should proceed until the corrections have been performed and documented by the evidence of an additional inspection notice.

CERTIFICATE OF USE AND OCCUPANCY PROCEDURES

- The Building Official or their designee shall review the construction project file and verify that all trade permits have been completed.
- Once verified the Building Official shall have the Certificate of Occupancy/Certificate of Completion issued to the applicant. (125.1513)

CONTRACTOR REGISTRATION PROCEDURE

• The permit technician shall obtain a copy of a contractor registration form furnished by the jurisdiction from the person to be licensed under the Act. Upon payment of all fees the licensed contractor shall be registered for the duration of the license issued under the applicable Act.

FIELD INSPECTION PROCEDURES

CHECKLISTS

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Required Inspections of Residential & Commercial Construction

- Temporary electrical services
- Footing (after excavation is complete, reinforcement & forms are set / prior to concrete placement) Soil reports may be required.
- Foundation reinforcement inspection. (prior to concrete placement).
- Foundation (after foundation wall is constructed, damproofing is installed & footing drain system is completed / prior to back-filling)

• Electrical Rough-In (after distribution panel is set, outlet & Switch boxes are set & wiring is installed / prior to insulating & drywall installation)

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- Plumbing Rough-In (after all supply & waste water piping is installed including vent piping / prior to insulating & drywall installation)
- Mechanical Rough-In (after furnace with related ductwork is installed, exhaust & dryer venting is installed & gas piping is complete / prior to insulating & drywall installation)
- Fireplace Rough-In (after fireplace with related ducting, fire stopping& gas piping is installed / prior to insulating & drywall installation)
- Building exterior weather resistive barrier and all required flashings. (prior to exterior veneer installation)
- Building Rough-In (after framing, sheeting, exterior doors & windows, & stair systems are installed / prior to insulating & drywall installation.)
- Insulation (after installation of insulation systems / prior to drywalling)
- Electrical Final (after installation of the electrical system is complete / prior to occupancy)
- Plumbing Final (after installation of plumbing system is complete / prior to occupancy)
- Mechanical Final (after installation of mechanical system is complete / prior to occupancy)
- Fireplace Final (after installation of fireplace surround and hearth is complete / prior to occupancy)
- Building Final (after building finishes are installed / prior to occupancy

Please Note: In commercial construction an inspection will need to be scheduled with the fire department at the same time the Rough-In's and Final inspections are scheduled.

When other than "typical" construction materials and methods are used, the Building Department may require "Special Inspections"

All inspectors are required to follow an inspection *checklist and the applicable codes enforced at the time of inspection.

After these inspections/ approvals are complete a Certificate of Occupancy can be issued. *Checklist included in this procedures manual may not be inclusive and are subject to the individual inspectors review. Architectural Trades Plan Review Checklists

Inspection Checklist RESIDENTIAL ROUGH-IN INSPECTION

Please verify the following when completing a residential rough-in inspection.

This checklist is intended for use in completing an inspection. This is only a general list and is not intended to address all possible conditions. References are to the 2015 (MRC) Michigan Residential, Mechanical, Plumbing, Fuel Gas Codes; 2014 NEC; 2009 NFPA 1 & 101; 2009 ICC/ANSI A117.1

A. Site

- □ Re-inspection fee payment due prior to next inspection.
- □ All necessary sub-permits obtained (mechanical, plumbing, electrical, etc.)
- □ Street is clear of all debris (mud, nails, rock, trash, wood, etc.)
- □ Portable toilet facility is on-site
- □ Site is identified via a numbered lot sign, visible from the street
- □ Erosion control is correctly installed & maintained
- □ Construction driveway is maintained
- Debris dumpster is on-site and not overflowing
- □ Building permit placard is posted, visible from the street
- □ Electrical rough-in inspection has been approved
- □ Electrical underground installation completed
- Grinder pump rough-in has been approved (if applicable)
- □ Water & sewer underground lines installation completed
- □ Roof covering installation is complete

B. Framing

- □ Construction drawings: approved and complete set are on-site
- ☐ Mud sill plates are P.T. lumber; anchored w/ min. ½" dia. Bolts; spaced max. 6' apart; extend min. 7" into concrete or grouted cells of concrete masonry units; bolts have washers and nuts; min. 2 bolts per plate; bolt not located >12" or <7 bolt diameters from each end of plate section. (or straps installed per manufacturer specifications.
- Lumber is identified by grade mark (dimensional load-bearing)
- □ Lumber components fastened per table.
- □ Wall Studs size, height and spacing per table.
- □ Wall Studs max. allowable height is not exceeded
- \square Wall Studs bearing and/or exterior: bored/drilled = >40% to = <60% require doubled-studs (or stud shoes) with no more than two successive doubled studs bored
- □ Wall Studs bearing and/or exterior: notched are not cut nor notched >25% of width
- \Box Wall Studs non-bearing: bored/drilled = <60% with edge of hole no more than 5/8" to stud's edge and no cut or notch
- \square Wall Studs non-bearing: <u>notched</u> = <40% of a <u>single</u> stud width
- □ <u>Bearing</u> wall top plates that have been bored/notched>50% area properly plate-strapped and contain 8-10d nails each side. Metal tie extends min. 6" past the opening
- Double top plates provided, unless exception for single top plate has been met (walls)

- □ Top plate joints are offset a minimum of 24"
- □ Bottom (sole) plate support for bearing wall studs
- □ Untreated lumber isolated from contact with masonry / concrete
- □ Install header at HVAC return air located in bearing wall
- □ Header spans are not exceeded

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- □ Jack studs at bearing headers / correct number per code
- \Box Walls braced in accordance with code
- □ Knee walls braced at intervals of 48" on center
- □ **Floor joists (including floor trusses):** 1st floor floor system layout was approved by prior inspection. If not, refer to that inspection checklist and attach list of issues
- □ Lumber species, grade, sizing, spacing and length, comply with plans / code / engineered lumber layout drawings
- □ Floor joist spans are not exceeded
- □ Floor joists; ends are supported laterally
- Given Floor joist: ends meet min. bearing requirements or are supported by hangers or ledger strip
- □ Floor joists: cutting, notching and drilling of structural floor members meet code. Check for cuts and/or holes in webs and chords of engineered lumber.
- Engineered lumber: squash blocking / panel blocking installed per plan
- □ Floor framing openings framed with header and trimmer joists
- \Box 1st floor: floor-system layout is per approved plans
- □ Floor / ceiling joists (including floor trusses): Lumber species, grade, sizing, spacing and length, comply with plans / code / engineered lumber layout drawings
- □ Floor / ceiling joist spans are not exceeded
- □ Floor / ceiling joists: ends are supported laterally
- □ Floor / ceiling joists: ends meet min. bearing requirements or are supported by hangers or ledger strip
- □ Floor / ceiling joists: cutting, notching and drilling of structural floor members meet code. Check for cuts and/or holes in webs and chords of engineered lumber
- Engineered lumber: squash blocking / panel installed per plan
- □ Floor framing openings framed with header and trimmer joists
- \Box 2nd floor: floor-system layout per approved plans
- □ Ceiling joists: Lumber species, grade, sizing, spacing and length comply with plans / code / engineered lumber layout drawings
- □ Ceiling joists not over-spanned
- \Box Ceiling joists: ends that are lapped or butted comply w/ code
- Ceiling joists: ends meet min. bearing requirements or are supported by hangers or ledger strip
- □ Ceiling joists: cutting, notching and drilling of structural floor members meet code. Check for cuts or holes in webs and chords of engineered lumber
- Ceiling joist taper cuts at the end of the ceiling joists do not exceed ¼ the depth of the member

- □ **Rafters:** Lumber species, grade, sizing, spacing and length comply with plans / code / engineered lumber layout drawings
- □ Rafters are not over-spanned

- Ends of rafters (lower) meet min. bearing requirements
 - □ Rafters connected to wall top plates (unless exception met) provide uplift resistance
 - □ Ridge boards, top main rafters, valley main rafters shall not be less in depth than the cut end of rafters
 - □ Main roof framing components are supported to bearing. Roof bracing exceeding 8 feet in length requires "Tee" brace
 - \Box Collar ties at rafters: min. 1"x4" and spaced =<4' on center
 - Purlins are sized no less than the rafter they support; are continuous and supported by 2x4 braces installed to bearing walls at a slope not less than 45 degrees; supported at 48" max. on center; and bracing > 8 feet in length are constructed as "Tee" brace
 - □ Double rafters at dormers, skylights, etc.
 - □ Openings in roof & ceiling framing: framed with header & trimmer joists. Headers supported by hangers or ledger strip
 - □ Ends of mid-ridge rafters are supported w/ hangers or ledger strip
 - □ Rafter splices supported to bearing

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☐ Masonry veneer steel angle installed and fastened; Triple rafter support for brick load is braced to bearing.

- □ **Roof Trusses:** Lumber species, grade, sizing, spacing and length comply with plans / code / engineered lumber layout drawings
- □ Roof trusses connected to wall top plates(uplift resistance)
- \Box Roof truss system braced per plan
- □ Structural roof members are not cut, bored or notched in excess of code allowances, nor are they damaged
- □ All structural point loads are fully transferred to bearing from roof to foundation

□ Attic ventilation: Openings in roof sheathing meet code requirements. Where ridge vents are installed, roof sheathing has been cut back per ridge vent installation instructions. Again verify at final inspection.

- □ Hangers are missing at: joists / beams / trusses / other
- Hangers are backed-out at joists / beams / other
- \Box Hangers are the correct size / type for the application
- □ Hanger fasteners appear to be of the correct *type*
- □ Hanger fasteners appear to be of the correct *quantity*
- Dimensional lumber: ends of rafters, ceiling joists, floor/ceiling joists, beams, girders, etc. meet min. bearing requirements

- Engineered lumber: ends of rafters, ceiling joists, floor/ceiling joists, beams, girders, etc. meet min. bearing requirements
- Ends of multi-ply structural members (e.g. beams, girders, I-joists / LVLs, etc.) are supported for full-thickness to bearing
- □ Ledger strips min. number of fasteners and fastener size are provided per code
- □ LVL bolted per Mfg.'s specifications

□ Layout of all rooms and other spaces comply with approved drawings. No additional rooms or spaces added

C. Fireblocking / Firestopping / Draftstopping

- Garage / carport separation properly maintained from habitable spaces (openings / penetrations)
- □ The following are fireblocked with approved materials: chases, fireplace chases, voids, walls at drop ceilings, walls at 10' height intervals, walls at ceiling height, gap between top plates of side-by-side walls
- □ Walls at stair stringers and stair landings are fireblocked, parallel w/ stair stringers and stair landings and all penetrations are sealed with approved materials
- □ Roof offset(s): walls are fireblocked parallel with rafter(s) and penetrations thru fireblocking are firestopped with approved materials
- □ Top and bottom wall plates: penetrations sealed with approved materials
- □ Penetrations thru fireblocking sealed with approved materials
- □ Penetrations thru fireblocking at walls of stair stringers and stair landings are sealed with approved materials
- □ Tub / shower: DWV & supply piping thru subfloor are fireblocked / firestopped with approved materials
- □ Basement gap at stud wall top plate and concrete foundation wall (running parallel to one another) fireblocked with penetrations firestopped

□ **Draftstopping** is installed so that areas of the concealed spaces do not exceed 1,000 sq. ft. Draftstopping has divided the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping is provided in floor/ceiling assemblies under the following circumstances: 1) Ceiling is suspended under the floor framing; 2) Floor framing is constructed of truss-type open-web or perforated members

Draftstopping consists of the material, material thickness, is per code and is properly supported

□ Fireplace chase-flue within the attic space shall be draft-stopped. Draft-stopping materials shall not be less than ½" gypsum board, 3/8" wood structural panels or other materials approved by the building inspector and shall be adequately supported. Penetrations through draft-stopping materials shall be supported and sealed with approved materials to maintain the integrity of the assembly

D. Plumbing

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- □ Water Supply Piping Water supply pressure test: Gauge reading exactly at 100psi
- □ Replace defective test gauge
- □ Pressure reducing valve installed
- □ Water supply piping is supported at max. distances of: copper@6'o.c. ; PEX @ 32"o.c.; CPVC @ 3' o.c.
- □ Air chambers required (water hammering)
- □ Shower valve bodies and heads supported
- □ Primer evident on joints
- \Box Shutoff values for main service and water heater installed

- DWV Piping Plumbing drain test: 10' head test above highest fitting section in that section or to the highest point of the completed system or by air test @ 5psi (AIR TEST NOT PERMITTED ON PLASTIC)
- □ Bathtubs filled with water above the overflow w/ plugs removed
- □ Shower liner test (min. 2" water depth)
- DWV piping supported 4' o.c. horizontal
- □ DWV piping =<2"dia. is supported midway in wall (vertical runs)
- DWV piping sized, and sloped correctly in the correct direction
- DWV cleanouts provided, accessible with min. clearances
- □ Primer evident on joints
- □ Slab openings around bathtubs, showers, piping, etc. sealed

- □ Water Supply Piping and DWV Piping Water supply piping less than 1-1/2" to the edge of studs, joists, rafters is protected against physical damage by steel shield plates, extending not less than 2" above sole plates and below top plates
- DWV piping less than 1-1/2" to the edge of studs, joists, rafters is protected against physical damage by steel shield plates extending not less than 2" above sole plates and below top plates
- □ Bathtubs equipped with circulation pumps shall be provided with an access opening per Mfgr. or code for pump removal (12"x12" / 18"x18"when >2' from access)
- □ Bath, toilet and shower spaces: rough-ins for fixtures are spaced in accordance with code
- □ Piping subject to freezing not installed at exterior wall, attics or crawl spaces unless adequate provision to protect from freezing
- □ Water heaters: Fuel-fired water heater is not located in a storage closet. If located in bedroom or bathroom, shall be in an enclosure and provided with combustion air.
- □ Water heater: when located in garage, water heater's ignition source is elevated min. 18" above garage floor
- □ Water heater installed in attic and/or crawl space: passageway and illumination of passageway are per code
- □ Other locations where water leakage could cause damage, an approved pan under the water heater has been provided
- □ The pan is drained by an indirect waste pipe, not less than ³/₄" of approved material; and extend full-size and terminate over an indirect waste receptor or shall extend to the building's exterior between 6"-24" above the adjacent ground surface
- □ A pressure/temperature (P/T) relief valve has been installed and the release mechanism is not obstructed
- □ The P/T relief valve discharge pipe is not directly connected to the drainage system
- □ Fuel-fired water heater has required combustion air supply provided or appliance is listed as "Direct Vent"

E. Mechanical

- Gas supply line system test: Gas supply test gauge reading maintained 15psi for 15 minutes
- □ Replace defective / inaccurate gas test gauge
- □ Gas gauge face type is max #30
- □ Fuel gas piping is properly supported / strapped

- □ Piping unions are not located in concealed area(s)
- □ Clothes dryer vent piping length does not exceed 35' in length. See Table for duct fitting equivalent length.
- □ Clothes dryer vent piping is rigid metal duct, assembled without screws and supported at 12' max. intervals
- □ Clothes dryer vent does not terminate less than 3' from openings into buildings

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- □ Bath and/or toilet rooms: an operable window or exhaust fan has been provided
- Exhaust fan hoses are securely attached to exhaust fan housing and routed to eave / exterior wall / roof cap

□ Gas shut-off valves accessible

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- \Box Gas shut-off valves accessible if located in concealed areas
- □ Appliances to be accessible for service, repair and replacement
- □ Appliance connections and proper venting in place
- □ Clearances from Type-B vent piping and combustible materials
- □ Gas vent piping has min. ¼"/ ft upward slope
- Gas vent piping is properly supported
- □ Gas vent termination minimum height from roof to lowest discharge opening
- □ Auxiliary drain pan and condensate discharge installed
- □ Condensate drain lines supported and sloped
- □ Return air outdoor & return air not taken from prohibited sources
- □ Combustion air requirements in compliance
- □ HVAC duct located in garage and penetrating the garage separation barrier, shall be a min. 26ga steel
- □ Supply ducts (HVAC) located in attics are R-8 insulated. All other ducts, R-6. No insulation required if ducts are located completely inside the building thermal envelope
- All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed.
- □ Building framing cavities are not used as supply ducts
- □ Mechanical system piping capable of carry fluids above 105° F or below 55° F are insulated to a min. R-3
- □ Isolate direct contact of dissimilar metals (i.e. copper steel)

- □ **Fireplaces** Factory and masonry fireplaces: clearances from combustibles comply with product installation instructions/code
- New wood-burning fireplaces provided with gasketed doors and combustion air supplied from outdoor
- Gas shut-off valve for fireplace is outside of firebox but is within 6' of fireplace/firebox assembly
- Gas supply piping penetration into fireplace chase is fire-caulked
- □ Fireplace flue piping strapping has been installed per manufacturer's installation instructions
- □ Fuel gas appliances not installed in prohibited locations. See code exceptions
- □ A cricket or saddle is installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope

□ Chimney – shall extend 2'higher than any portion of the building within 10', but not less than 3' above the highest point when passing thru roof.

F. Fenestration / Glazing at Hazardous Locations

- □ Windows, doors and skylights, located in the building thermal envelope, are NFRC labeled. Compare the U-factor with approved construction drawings. Verify that windows, skylights and sliding glass doors have an air infiltration rate of no more than 0.3 cfm per square foot. Swinging doors have an air leakage rate of no more than 0.5cgm per square foot
- □ Safety glazing installed and labeled at hazardous locations. Glazing in doors; adjacent to doors; in windows; in guards and railings; at wet surfaces; adjacent to stairs and ramps; etc.

G. Building Envelope

- □ All joints, seams, penetrations, openings, cracks, etc. thru exterior wall sheathing and floors have been sealed to limit air and moisture infiltration
- □ All recessed luminaries, located in the building thermal envelope, are listed as IC rated and labeled as meeting ASTM E283
- Duct tightness testing verified via rough-in test via 3rd party. Documentation received (test exempt if air handler and all ducts located within the conditioned space)

□ **Duct tightness testing to be verified via post-construction test,** via 3rd party. Documentation pending. (test exempt if air handler and all ducts located within the conditioned space)

H. Life Safety

- □ Smoke alarm and carbon monoxide boxes are at required locations and identified.
- Emergency escape and rescue openings required for basements, habitable attics and every sleeping room. Minimum 5.0 sq. ft. for grade floor openings; minimum 5.7 sq. ft. for all others. Minimum height opening 24" net clear, minimum width opening 20" net clear, maximum sill height 44"
- □ Where the opening of an operable window is located more than 72" above the finished grade or surface below, the lowest part of the clear opening of the window shall be a min. of 24" above the finished floor. Where openings of operable sections of windows are less than 24" of the finished floor, window openings do not allow passage of a 4" diameter sphere or are equipped with window opening control devices, listed in compliance with ASTM F2090. When located at emergency egress and rescue openings, the window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by code.

- □ Means of Egress Min. 1 egress door, 32" min. clear width (single leaf side-hinged)
- \Box Stairways have minimum headroom clearance 6'-8" and 36" min. clear width
- □ Stairways, ramps, landings, winders, risers, treads and tread nosings are required to be code compliant. i.e. max. riser height 8 ¼ "; min tread depth 9"; not varying 3/8" in run, etc. Will verify at inspection
- □ Stair *landings* are structurally supported

- □ Stair *stringers* are structurally supported
- □ Stair flight does not have a vertical rise greater than 12 feet between floor levels or landings.
- □ Stair landing at either side of all exterior doors
- □ Stairs/landings located inside and/or outside are provided with means of illumination.
- □ Safety rails at stairs, landings, crossovers and walkovers exceeding 30" to grade or floor are in place during construction

I. Radon

- □ **Radon** piping installed in slabs (as required), attic, crawl, basement. Properly identified in exposed and visible locations with the *label*, "Radon Reduction System"
- □ Radon piping has a 110-volt electrical outlet located within 6 feet of radon piping and where applicable and has a 24" walkway to her electrical outlet and radon piping

J. Crawl Space

- □ All construction material debris, vegetation and organic matter have been removed from the crawl space area
- □ Crawl ventilation vents are installed at locations and in the amount per code unless meeting unvented requirements. (MUEC)
- □ HVAC and appliances installed in crawl spaces are capable of being removed thru an adequate access opening. Travel path from access to appliance does not exceed 20 feet and travel path is illuminated. If no appliance equipment exists, then min. access opening is 16"x24"/18" x 24"

K. Attic Access

☐ Attic access. Buildings with combustible ceiling or roof construction shall have an attic access opening to attic areas that exceed 30 sq. ft. and have a vertical height of 30 "or greater. The rough framed opening shall not be less than 22" x 30" and be located in a hallway or other readily accessible location with headroom of 30" at some point above the access. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

L. Other

- **Drip edge** is provided at eaves and gables of shingle roofs.
- □ Lintels See the code regarding min. / max. height of masonry veneer above openings and allowable spans for lintels supporting masonry veneer
- □ Structural support posts are mechanically connected at top (structure) and bottom (slab/grade beam)
- \square Remove wood from brick ledge at foundation
- □ Porch pit(s): all wood and other bio-degradable items have been removed
- □ Provide product information for:
- □ Structural engineer is to investigate and provide report for the following:

M. Additional Comments

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Inspection Checklist RESIDENTIAL FINAL INSPECTION

Please verify the following when completing a residential final inspection.

This checklist is intended for use in completing an inspection. This is only a general list and is not intended to address all possible conditions. References are to the 2015 MRC Michigan Residential, Mechanical, Plumbing, Fuel Gas Codes; 2009 NFPA 1 & 101; 2009 ICC/ANSI A117.1

A. Preliminary

- □ All necessary sub-permits have been obtained (mechanical, plumbing, irrigation, etc.)
- □ Lot final inspection approval
- □ Grinder pump final inspection
- □ Electrical final inspection approval
- □ Lawn irrigation system (if applicable)
- □ All engineer's inspection reports have been received

B. Site and House Exterior

- □ Street is clear of all debris (mud, nails, rock, trash, wood, etc.)
- □ Site is identified by a house-numbers as required by the Saginaw County Ordinance.
- Driveway has been installed, per approved drawings
- 🗀 Electric meter has been set
- \square Water meter has been set
- □ Gas meter has been set, if applicable
- □ Penetrations thru exterior brick veneer, wall covering and foundation walls are sealed and sleeved, where required
- □ Condensate drain lines terminate min. 18" away from foundation wall
- □ Weepholes in masonry walls are spaced 33" maximum on-center; are min. 3/16" in diameter; and located immediately above the flashing
- □ Final grade is complete. Grade along house perimeter is sloped away from foundation a min. 6 inches in 10 feet
- □ Egress door: at least one egress door is side-hinged; provides a min. clear width of 32 inches when measured between the face of the door and the stop with the door opened at 90°; min. clear height of the door opening is not less than 78"; is readily openable from inside the dwelling without the use of a key or special knowledge or effort

Egress door – landing or floor: a landing or floor is on each side of the egress door and has a width not less than the egress in the direction of travel. On the exterior side, the landing or floor is not more than 7-3/4" below the top of the threshold provided the door does not swing over the landing or floor. If the exterior landing or floor is not at grade, a ramp or stair provides access to grade

Exterior doors: a landing or floor is on each side of each exterior door. The width of each landing is not less than the door served. Every landing has a min. dimension of 36" measured in

the direction of travel. Landing or floor on the exterior side is not more than 7-3/4" below the top of the threshold provided the door does not swing over the landing or floor. (Exception: a landing is not required where a stairway of two or fewer risers is located on the exterior side of the door, provided the door does not swing over the stairway)

- □ Exterior stairways: stairways, ramps, landings, winders, risers, treads and tread nosings, handrails, guardrails, minimum head room, etc. are code compliant including min. 36" width
- □ Exterior flights of stairs do not have a vertical rise greater than 12 feet between floor levels or landings.

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- Exterior/Interior stairways illumination: all interior and exterior stairways shall be provided with a means to illuminate the stairs, including the landings and treads. Interior stairways shall be provided with an artificial light source (1 ft. candle power) located in the immediate vicinity of each landing of the stairway. Exterior stairways providing access to a basement from the outside grade level shall be provided with an artificial light source located in the immediate vicinity of the bottom landing of the stairway. (Exception: artificial light source is not required at the top and bottom landing, provided an artificial light source is located directly over each stairway section.) Light activation: the illumination of the exterior stairways is controlled from inside the dwelling unit. (Exception: lights that are continuously illuminated or automatically controlled
- □ Decks: where supported by attachment to an exterior wall, decks shall be positively anchored to the primary structure and designed for both vertical and lateral loads as applicable. Such attachment shall not be by toenails or nails subject to withdrawal. If positive connection to the primary building structure cannot be verified during inspection, the deck is required to be self-supporting. Decks with cantilevered framing members, connections to exterior walls or other framing members, shall be designed and constructed to resist uplift from the full live load, acting on the cantilevered portion of the deck.(Table R301.5)

- □ Deck ledger connection to band joist: decks supporting a total design load of 50 lbs. per sq. foot, the connection between a deck ledger of P.T. Southern Pine, incised P.T. or approved decay-resistant species, and a 2"nominal lumber band joist bearing on a sill plate or wall plate shall be constructed with ½" lag screws or bolts with washers in accordance with Table 502.2.2.1. Lag screws, bolts and washers are to be hot-dipped galvanized or stainless steel. Placement of lag screws or bolts in deck ledgers and band joists are to code
- □ Deck lateral load connection is per code
- □ Deck post footings have been inspected prior to concrete placement
- □ Deck framing construction is per approved drawings
- □ Deck framing includes necessary joist hangers, ledger strips, ½" bolting of main framing bands and stair stringers to support posts
- □ Deck wood/plastic composites bear a label indicating the required performance levels and demonstrating compliance with the provisions of ASTM D 7032
- □ Deck wood/plastic composites appear to have been installed in accordance with the manufacturer's instructions.

□ Hose bibbs are protected by an atmospheric-type or pressure-type vacuum breaker or a permanently attached hose connection vacuum breaker. Hose bibs subject to freezing, including the "frostproof" type, are equipped with an accessible stop-and-waste type valve inside the building for control and drainage during cold periods, unless exception is met.

Drip edge is provided at eaves and gables of shingle roofs.

- □ Fireplace chimney A cricket or saddle is installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope
- □ Chimney shall extend 2'higher than any portion of the building within 10', but not less than 3' above the highest point when passing thru the roof
- □ Chimney caps: masonry chimneys have concrete, metal or stone cap, sloped to shed water, a drip edge and spark arrestor
- □ Radon piping is terminated min. 12" above the roof in a location at least 10 feet away from any window or other opening into the conditioned spaces of the building that is less than 2 feet below the exhaust point
- □ No structure is located outside the building envelope
- □ **Retaining walls:** location(s) per approved drawings; engineer's inspection reports have been received; guardrails have been installed, where required

□ **Drainage:** Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection that does not create a hazard. Lots shall be graded to drain surface water away from the foundation walls. The grade shall fall a minimum of 6" within the first 10'. Exception (R401.3)

C. Garage and Garage Separation

- □ Garage Separation: separation from the residence and attics is via ¹/₂" thick gypsum board or equivalent; separation from the habitable rooms above is 5/8" thick Type X gypsum board or equivalent; Structures supporting floor/ceiling assemblies used for separation by code via ¹/₂" thick gypsum board or equivalent
- □ Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a min. No. 26 gauge sheet steel or other approved material and have no openings into the garage.
- □ Ducts and other penetrations thru the separation have their openings sealed with an approved material to resist the free passage of flame and products of combustion
- □ Openings between the garage and residence are equipped with solid wood doors not less than 1-3/8" in thickness, solid or honeycomb-core steel doors not less than1-3/8" thick, or 20 minute firerated doors.

□ Garage Stairs: treads, tread nosings and risers meet code. Where guard is required, guard is min. 36" in height. Where 4 or more stair risers exist, a code-complying handrail is installed 34"-38" above tread nosing with min. 1-1/2" clearance, when mounted to wall. Guard on open side of stairs does not allow passage of a sphere 4-3/8" in diameter

- □ The triangular openings at the open side of stairs, formed by the riser, tread and bottom rail of a guard, does not allow passage of a sphere 6" in diameter
- Garage-located water heater the water heater's ignition source is elevated min. 18" above garage floor; A pressure / temperature (P/T) relief valve has been installed and the release mechanism is not obstructed
- □ The P/T relief valve discharge pipe is not directly connected to the drainage system
- A readily accessible full-open value is installed in the cold-water supply pipe of the water heater
- □ Fuel-fired water heater has required combustion air supply provided or appliance is listed as direct vent
- □ Appliances located in private garage are installed with a minimum clearance of 6 feet above the floor. Exception: the appliances are protected from motor vehicle impact
- □ There are no openings from a private garage directly into a room used for sleeping purposes.

D. Kitchen

- \Box Every kitchen area is provided with a sink
- \Box No water leaks were noted under kitchen sink
- Potable water valves serving individual fixtures, appliances, risers and branches are provided with access. An individual shutoff valve is installed on the fixture water supply pipe to each plumbing fixture
- □ The dishwasher waste line rises and is securely fastened to the underside of the counter before connecting to the sink tailpiece
- □ No S-trap has been created in the DWV piping under the kitchen sink
- \Box Air admittance valve, when provided, has been installed per code
- □ Fuel-fired appliances have a gas shutoff valve within 6 feet of the appliance and is installed upstream of the union, connector or quick disconnect device it serves. Each shutoff valve is provided with access
- Penetrations thru kitchen base cabinets have been sealed

E. Bathrooms

- □ Potable water valves serving individual fixtures are provided with access. An individual shutoff valve is installed on the fixture water supply pipe to each plumbing fixture
- □ No water leaks were noted under sinks
- □ NO S-trap has been created in the DWV piping under the bathroom sink
- □ Air admittance valves when provided, have been installed per code
- □ Bathrooms, water closet compartments and other similar rooms are provided with aggregate glazing area in windows of not less than 3 sq. ft., one-half of which is openable or have been provided with artificial light and a local exhaust system of 50 cfm intermittent or 20 cfm continuous. Exhaust air from these spaces has been exhausted directly to the outdoors.
- □ Bathtubs equipped with circulation pumps shall be provided with an access opening per Mfr. or code for pump removal (12"x12" or 18"x18" when >2' from access)
- □ Safety glazing has been installed in walls or enclosures containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers where the bottom exposed edge of the glazing is less than 60" measured vertically above any standing or walking surface shall be considered a

hazardous location. Exception: Glazing that is more than 60", measured horizontally and in a straight line, from the water's edge of a bathtub, hot tub, spa, whirlpool, or swimming pool

F. Stairways and Hallways - Indoors

- □ The minimum width of hallways is not less than 3 feet
- □ Indoor stairways: stairways, ramps, landings, winders, risers, treads and tread nosings, handrails etc. are code compliant
- □ Stairways have minimum headroom clearance 6'-8" (6'-6" spirals) and 36" min. clear width
- □ Flight of stairs do not have a vertical rise greater than 12 feet between floor levels or landings

G. Emergency Escape and Rescue Openings

- □ Emergency escape and rescue openings: basements, habitable attics and every sleeping room shall have at least one operable emergency escape and rescue opening. Where basements contain one or more sleeping rooms, emergency egress and rescue openings shall be required in each sleeping room.
- Emergency escape and rescue openings: Minimum opening areas required for basements, habitable attics and every sleeping room. Minimum 5.0 sq ft for grade floor openings; Minimum 5.7 sq ft for all others; Minimum height opening 24" net clear; Minimum width opening 20" net clear; Maximum sill height 44".

H. Guards and Window Fall Protection

□ Where the opening of an operable window is located more than 72" above the finished grade or surface below, the lowest part of the clear opening of the window is a min. of 24" above the finished floor. Where openings of operable sections of windows are less than 24" from the finished floor, window openings shall not allow passage of a 4" diameter sphere or are equipped with window opening control devices, listed in compliance with ASTM F 2090. When located at emergency egress and rescue openings, the window opening control device, after operation to release the window to fully open, does not reduce the minimum net clear opening area of the window unit to less than the area required by code

I. Fenestration / Glazing at Hazardous Locations

□ All safety glazing has been installed and labeled at hazardous locations. Glazing in doors; adjacent to doors; in windows; in guards and railings; at wet surfaces; adjacent to stairs and ramps; etc. as specified by code

J. Smoke Alarms and Carbon Monoxide Alarms

- □ Smoke alarms: smoke alarms are installed in each sleeping room; outside each separate sleeping area in the immediate vicinity of the bedrooms; on each additional story of the dwelling, including basements and habitable attics; receive their primary power from the building wiring; and are equipped with battery backup power
- □ Smoke alarms have been tested in presence of building inspector. Actuation of one alarm activated all of the alarms within the house

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- □ **Carbon monoxide alarms**: NEW CONSTRUCTION a carbon monoxide alarm is installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units that utilize a fuel fired appliance, and/or have an attached garage.
- □ Carbon monoxide alarms: EXISTING CONSTRUCTION where work requiring a building permit occurs in existing dwellings that have attached garages or where fuel fired appliances exist, alarms shall be installed as above.

K. Energy Conservation

- □ Blower door test passed or Visual Inspection certification received
- □ At least one programmable thermostat has been provided for each separate forced-air heating and cooling system. Thermostat is capable of maintaining the HVAC system on a daily schedule and different times of the day
- □ Supply ducts in attics shall be insulated to a minimum R-8. All others insulated to a minimum of R-6 unless ducts are installed on the inside of the building thermal envelope
- □ The HVAC unit(s) complies with the minimum efficiency indicated in the approved construction documents.
- □ A permanent certificate is completed and posted on or in the electrical distribution panel. The certificate lists the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, basement wall, crawl space wall and/or floor) and ducts outside conditioned spaces; U-factors for fenestration and the solar heat gain coefficient (SHGC) of fenestration and the results from any required duct system and building envelope air leakage testing done on the building. Where there is more than one value for each component, the certificate lists the value covering the largest area. The certificate lists the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater", "electric furnace" or baseboard electric heater", as appropriate. Efficiency shall not be listed for gas-fired unvented room heaters, electric furnaces or electric baseboard heaters.
- \square A min. of 50% of the lamps in permanently installed lighting fixtures are high-efficiency lamps

L. Attic Areas

- ☐ Attic Access: Buildings with combustible ceiling or roof construction shall have an attic access opening to attic areas that exceed 30 sq. ft. and have a vertical height of 30" or greater. The vertical height shall be measured from the top of the ceiling framing members to the underside of the roof framing members.
 - Ceiling framed opening a minimum of 22" x 30".
 - Wall opening min. 22"wide x 30" high
 - In all cases, opening(s) shall be large enough to accommodate the removal of appliances, if applicable
 - Travel distance to the appliance, if applicable, shall not exceed 20' and have 24" wide continuous solid flooring (see exception)

- A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet near the appliance location in accordance with NFPA 70.
- □ **Radon** piping is properly identified in exposed and visible locations with the label "Radon Reduction System"
- □ Radon piping has a 110-volt electrical outlet located within 6 feet of radon piping and where applicable has a 24" walkway to the electrical outlet and radon piping

- Attic insulation: Pull-down stairway assembly opening is insulated and weather-stripped.
 Backside of vertically mounted doors and upper side of horizontally mounted access panels have been weather-stripped and insulated to a level equivalent to the insulation on the surrounding surfaces
- \Box Attic insulation is R-38 in Zone 5.
- □ If spray foam utilized, provide builder with list of information requirements and follow-up
- □ Eave baffles are installed at the eaves and baffles at other locations to prevent insulation from falling or wind-washing into the eaves and other spaces
- □ The thickness of blown-in or sprayed roof/ceiling insulation (fiberglass or cellulose) is written in inches on markers that are installed at least one for every 300 sq. ft. throughout the attic space. The markers are affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers a minimum of 1" in height. Each marker faces the attic access opening. Spray polyurethane foam thickness and installed R-value shall be listed on certification provided by the insulation installer.

□ Attic ventilation: Openings in roof sheathing meet code requirements. Where ridge vents are installed, roof sheathing has been cut back per ridge vent installation instructions

- \square Attic other: HVAC supply ducts in attics shall be insulated to a minimum of R-8
- □ Clearances from Type-B vent piping and combustible materials
- □ Gas vent piping has min. ¼"/ft. upward slope
- □ Gas vent piping is properly supported.
- □ Gas vent termination minimum height from roof to lowest discharge opening
- □ Auxiliary drain pans(s) in place and free of debris
- □ Condensate drain line piping from HVAC unit are supported and sloped. Piping is insulated for a distance not less than 10' from the HVAC unit
- □ Roof framing members including trusses: unless otherwise noted, no evidence of damage is evident

M. Mechanical

Name of

- □ Water heaters Fuel fired water heater is *not* located in a storage closet. If located in bedroom or bathroom, shall be in an enclosure and provided with combustion air
- □ Other locations where water leakage could cause damage, an approved pan under the water heater has been provided
- □ The pan is drained by an indirect waste pipe, not less than ³⁄₄" of approved material; and extend full-size and terminate over an indirect waste receptor or shall extend to the building's exterior between 6" -24" above the adjacent ground surface

- □ A pressure/temperature (P/T) relief valve has been installed and the release mechanism releasing mechanism is not obstructed
- □ The P/T relief valve discharge pipe is not directly connected to the drainage system
- □ Fuel-fired water heater has required combustion air supply provided or appliance is listed as direct vent
- □ Fuel gas piping is properly supported / strapped
- □ Piping unions in concealed area(s) have access panels
- □ Combustion air requirements in compliance
- □ Appliances are not located in sleeping rooms, bathrooms, toilet rooms, storage closets, or in a space that opens only into such rooms or spaces, except where compliance with code exceptions have been met
- □ Appliances installed in outdoor locations are either listed for outdoor installation or provided with protection from outdoor environmental factors that influence the operability, durability and safety of the appliance

N. Additional Comments

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Product information / Required reports / Etc.

Inspection Checklist COMMERCIAL ROUGH-IN INSPECTION

Please verify the following when completing a commercial rough-in inspection.

This checklist is intended for use in completing an inspection. This is only a general list and is not intended to address all possible conditions. References are to the 2012 MBC Michigan Building, Mechanical, Plumbing, Fuel Gas Codes; 2009 NFPA 1 & 101; 2009 ICC/ANSI A117.1

General

- □ Job site address / lot number is identified and visible from the street
- □ Stamped / approved drawings on jobsite
- □ City and State permits posted at the jobsite
- □ Street is clear of all debris (mud, nails, rock, trash, wood, etc.)
- □ Erosion control is correctly installed & maintained
- □ Construction driveway is maintained
- □ Provide report(s) for required special inspections
- □ Provide report(s) for structural observations completed by design professional.
- □ Structure is "in-the-dry" (electrical, roof and wall framing protected)
- □ Any previous outstanding corrections on project
- □ Electrical rough-in and low voltage inspection completed by the Electrical Inspector
- □ Foam / Insulation proposed (walls, ceiling and/or floors) ES Report on jobsite

Foundation

- □ Required anchoring installed per approved drawings
- □ Seismic or special structural elements; reports provided
- □ Soil density and/or compaction test reports provided
- □ Reinforcement steel installed; special inspector report required
- □ Relief arch(s) and /or sleeves installed at piping locations
- □ Vapor barrier in place; special inspection report to confirm

Framing

- □ All connectors installed per approved plans; special inspection report to confirm and included in report
- □ Structural elements/bearing points (beams, girders, support columns, lintels, etc.) in compliance to approved drawings
- □ Ends of joists, beams and girders meet min. bearing requirements
- □ Field welding, bolting anchoring, etc. to be verified by special inspection and included in report
- □ Wall framing layout design consistent with approved plans
- □ Floor framing layout design consistent with approved plans
- \Box Roof framing layout design consistent with approved plans
- \Box Penetrations in rated assemblies are required to be sleeved and sealed

- □ Attic draft-stopping required every 3000 sf in combustible construction with no fire suppression system.
- \Box Untreated lumber isolated from contact with masonry / concrete
- \Box Wall Studs Notched, non-bearing =<40% of a single stud width
- □ Wall Studs Notched, exterior and/or bearing: not cut/notched >25% of width
- \square Wall Studs Bored/drilled non-bearing: =<60% with edge of hole no more than 5/8"to stud's edge and no cut or notch
- \square Wall Studs Bored/drilled exterior and/or bearing: =<40% to =<60% require doubled-studs (or stud shoes) with no more than two successive doubled studs bored.
- □ Studs (wall) do not exceed max, height limitations
- □ Attic access and service space provided

Fireblocking / Draft-Stopping

- □ Top & bottom wall plates: Penetrations sealed with approved material(s)
- □ Chases are fire-stopped
- □ Penetrations thru fire-blocking are correctly sealed
- □ Walls and soffits are blocked at ceiling height
- \Box Walls = horizontally fire-blocked at 10' intervals
- □ Walls at ceiling height: fire-blocked correctly
- □ Exterior wall sheathing penetrations/openings correctly sealed
- □ Stair stringers at walls and landings are fire-blocked
- □ Stair stringers at walls and landings: penetrations thru fire-blocking are fire-stopped correctly

Plumbing

- □ Water supply pressure test; gauge reading 100psi
- □ Plumbing drain test passed
- □ Fixture clearances
- □ Drinking fountain location
- □ Location of water heater(s); provide access for observation, maintenance, servicing and replacement (relief valve location)
- Boilers exceeding 199,999 BTU's are regulated by the State of Michigan- Division of Boiler and Elevator Inspections
- □ Protection of potable water supply
- □ Piping, traps, bend, material and devices used in plumbing system shall bear identification of the manufacturer
- □ Piping supported and secured; hangar spacing compliance and at fixture locations
- □ Piping protected from freezing, breakage, stress & strains; sleeved or relieving arch provided through or under footings and foundations
- □ Piping insulated
- □ Condensation disposal; auxiliary and secondary
- □ Elevator pump discharge; location, contained or interceptor proposed
- □ Nail-guards for piping have been correctly installed/provided
- \Box DWV cleanouts are provided per code
- Grease interceptor or separator rough-in inspection has been passed by the Water & Sewer Dept.
- Grinder pump rough-in inspection has been passed by the Water & Sewer Department (external)

- □ Internal sump or ejector pump proposed
- \square Building sewer and water service piping separation (5')
- □ Primary and secondary roof drainage compliance

Mechanical / Gas

- Gas supply line system test: Test gauge remained at psi for 15 minutes
- □ Appliances to be accessible
- □ Combustion air compliance (indoor/outdoor)
- □ Mechanical ventilation system for enclosed parking garages
- □ For other than steel pipe, exposed pipe shall be identified by a yellow label marked "gas" in black letters at intervals not exceeding 5 feet
- □ Piping from multiple meter installations shall be marked/identified for each meter
- □ Piping to be protected from corrosive action
- □ Gas piping shall not penetrate building foundation walls at any point below grade.
- □ Minimum burial depth of 12 inches for underground piping
- □ Sediment traps installed
- \Box Appliance shut-off(s) to be in same room within 6 feet of appliance
- □ Appliance clearance from grade
- □ Fueled fired appliances-prohibited locations (sleeping rooms, bathrooms, toilet rooms, storage closets, surgical rooms) Review IMC for exceptions
- □ Elevated ignition source (18inches) unless listed as flammable vapor ignition resistant
- □ Minimum clearances between gas vent piping and/or fireplace vent piping and combustible materials are being maintained
- □ Gas piping supported/secured
- □ Vent systems shall be sized and installed in accordance with manufacturer's installation instructions
- □ All portions of vent system properly supported
- □ Commercial venting and hood exhaust (Type I or II)
- □ Commercial make-up air supplied during operation of equipment
- Gas vent/exhaust termination compliance from roof, openings, other
- □ Materials within plenums; non-combustibles
- □ Duct insulation shall conform to the 2009 IECC
- □ Air distribution systems shall be equipped with smoke detectors
- Ducts and air transfer openings penetrating fire partitions shall be protected by fire dampers
- Ducts and air transfer openings penetrating smoke barriers shall be protected by smoke dampers
- □ Shaft enclosure penetrations; exceptions
- \Box Refrigerant circuit access located outside must be secured
- □ Temporary safety guardrails and handrails installed at stairs, landings and ramps
- □ Safety glazing installed at required hazardous locations
- □ Ensure stair treads and risers meet code at final inspection
- □ Stairway headroom meets or exceeds 6'-8" clearance

Other

□ Exterior wall sheathing penetrations / openings sealed

Wood and wood-based product protected against decay
 Ensure adequate attic ventilation, at final inspection
 Additional Comments, Requirements, etc.

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Inspection Checklist COMMERCIAL FINAL INSPECTION

Please verify the following when completing a commercial final inspection.

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A. Preliminary

- > Approved construction drawings on-site.
- > Completed electrical final inspection
- > Final Inspection by Birch Run Township Fire Department
- > Utilities operational (electric, gas and water meters installed)
- > Initial back-flow test report(s) for irrigation, domestic and/or fire
- ➢ Grinder pump approved by the DPW
- Submit fire alarm inspection and testing report per NFPA 72 U0rj/Strobe devices shall be wired so that the strobes continue to flash when the system is silenced
- > Submit contractor's material and test report for underground, above ground and standpipes
- > Submit pump acceptance test data for fire pump
- > Submit copy of State Elevator Inspector's approval
- > State Fire Marshal's final approval (daycare, educational, etc.)
- Saginaw County Health Department Approval (food service and /or swimming pool)
- State Department-Division of Health Care Facilities approval (adult day care, assisted living)
- Submit final inspection reports documenting required special inspections and correction of any discrepancies noted. (Steel, concrete, masonry, soils, pile foundations, driven deep foundations, cast-in-place foundations, sprayed fire resistive materials, mastic & intumescent fire-resistant coating

B. Exterior

- Planning Dept. Approval (landscaping, irrigation system, parking, striping, signage, exterior lighting, build materials, etc.)
- > Engineering approval (parking, drainage, detention/retention, stabilization of site, etc.)
- > HVAC equipment properly screened per Planning Commission and/or Planning Dept. Staff
- Elevator shaft-pump discharge location. To be contained and/or separator required prior to discharge
- > Site accessibility (sidewalks, ramps, landings, etc.)
- > Handrails and guardrails permanently installed
- > Construction & storage trailers and dumpsters removed from site
- > Thresholds at doors shall not exceed ½ inch in height
- The floor on both sides of any door shall be substantially level except for exterior landings which may have a slope of 2% plus 0.5 inch due to finish material
- > Emergency egress lighting at exterior door exit locations
- > Permanent placard of property address

- > Verify exterior of building is completed
- > Verify flashing and roof covering(s) are installed

C. Interior

- □ Rated wall assemblies to be identified (stenciled) above the lay-in ceiling assembly.
- Door closures installed on rated door assemblies.
- A chair rail or other visual barrier is required at glass panels that may be mistaken for doors(s)
- □ Floors of toilet rooms shall have a smooth, hard, nonabsorbent surface that extend a minimum of 4 inches up the wall
- □ Walls of toilet rooms within 2 feet of urinals or water closets shall have a smooth, hard, nonabsorbent surface to four feet above.
- □ Dressing and fitting room accessibility
- □ Accessible bathroom floor clearances and grab bars installed

D. Plumbing

- Drinking fountain(s) installed and operational
- □ Restroom / Bathroom fixtures installed and operational
- □ Primary and secondary roof drainage system 100% completed (location of discharge identified if concealed)
- □ Provide secondary condensate drain for evaporators and cooling coils disposed of where the drain can indicate usage and the clogging of the primary drain.

E. Mechanical

- □ Mechanical exhaust is required for bathrooms, locker rooms, smoking lounges and toilet rooms.
- □ Furnace rooms with any piece of fuel fired equipment shall be enclosed with one-hour rated construction with 45 minute doors or provide automatic sprinkler system and smoke partition
- □ Commercial kitchen fire suppression and hood testing
- □ Provide manual fire suppression actuation device at or near a means of egress from the cooking area a minimum of 10 feet but no more than 20 feet from the kitchen exhaust system.
- □ The actuation of the commercial kitchen hood shall automatically shut down the fuel or electrical power supply to the cooking equipment with manual reset.
- D Provide shunt trip for fuel gas equipment under a Class I Kitchen Hood
- □ Gas appliance shut-off requirements/location
- □ For other than steel pipe, exposed piping shall be identified by a yellow label marked "gas" in black letters and each length of pipe or tubing and each pipe fitting utilized in a fuel gas system shall bear identification of the manufacturer.
- □ All equipment and piping properly supported.
- □ Air handler equipment installed in accessible locations (s)
- □ Clearances from combustible products

F. Life Safety

- □ Construction zone area life safety inspection ready
- □ Provide horn, strobe and alarm compliance letter for new or modifications to existing system during construction. Horn/strobe devices to be wired so that the strobe(s) continue to flash when the system is silenced.
- □ Emergency egress lighting operational
- □ Exit signs operational
- □ Provide tactile exit signs centered 60 inches above finished floor stating "EXIT" complying with 2006 ICC/ANSI at each door to an egress stairway, an exit passageway, and exit discharge.
- □ Sprinkler shop drawings submitted to the Fire Marshall for modifications to existing fire suppression system.
- □ Assembly rooms having an occupancy load over 49 must be posted at the main entrance to the building or room.
- □ Portable fire extinguishers installed.

G. Additional Comments

Inspection Checklist ELECTRICAL INSPECTION

Please verify the following when completing a residential or commercial electrical inspection, rough-in and final. This checklist is intended for use in completing an inspection. This is only a general list and is not intended to address all possible conditions. References are to the 2014 NEC, 2012 MBC Michigan Building, Mechanical, Plumbing, Fuel Gas Codes; 2009 NFPA 1 & 101; 2009 ICC/ANSI

A. Plan Checklist / Information Sheet

- □ One set of original plans should be required for plan check
- \Box The plan should be of a scale not less than 1/8in.
- □ A complete single-line diagram should be provided
- □ Panelboard schedules and a load summary, including all loads
- Available fault current (obtainable from the serving utility)
- □ Interrupting capacities of all overcurrent protective devices
- □ Location of all panelboards, utilization equipment and outlets
- □ Location of service equipment, service lateral, and overhead service.
- □ Rating and location of all disconnecting means
- □ Size of all branch-circuit conductors
- \Box Check for overloaded conductors
- □ Clearances and working space at all electrical equipment
- □ Verify proper use of multiwire branch circuits, and balance all loads
- □ Check all enclosures, raceways and proper sizing for raceway fill
- □ Check motor-starting and running protection.
- □ Verify calculations in accordance with the National Electrical Code
- □ Plans must be of sufficient clarity to identify the extent or location of the proposed installation.
- □ All electrical information must be provided on sheets labeled "E"
- □ Check the plans for a note as follows: "Electrical equipment and material shall be listed and labeled by a recognized electrical testing laboratory"
- □ Check details of all lighting fixtures, or ceiling fan supports
- □ Check for a complete symbol and abbreviation list.
- \Box Check to see that all conductor sizes are show on the plans
- □ Check for grounding electrode system and bonding of the interior water piping system.
- □ Check for main service overcurrent protective device
- \Box Check for sizes and material of the subfeeder(s)
- □ Check to see that panelboard schedules match the layout
- □ Check for panelboard identification, type, voltage phases and bus suzes in amperes, and size of main circuit breakers or fuses
- □ Check the service section and subpanel locations and electrical equipment to be maintained and serviced
- □ Verify that equipment will include proper working clearances and is not located in spaces used for storage

- □ All circuiting should match the circuit numbers on the schedules
- □ Check all raceway sizes or cable assembly types, conductor sizes, and number of conductors installed in raceways.
- □ Disconnecting means shall be located at a readily accessible location and within sight of all airconditioning and refrigerating equipment
- □ Check disconnecting means for motors and controllers, as required

□ Basic Checklist

- Charles

- □ Stamped / approved drawings on jobsite
- □ Number and location of receptacle outlets.
- □ Proper strapping of cables, conduits, or raceways not damaged.
- □ Proper size of conductors as to load and material
- □ Raceway capacities and derating, where required.
- □ Size of all junction and device boxes, conductor fill.
- □ Extension rings and raised covers, where required.
- □ Location of distribution panel, size and support
- \Box Feeders, sizes and installation
- □ Size and type of overcurrent devices per conductor size
- □ Conductor insulation in high ambient temperatures
- □ Type of conductor insulation used in wet locations
- □ Recessed fixtures, spacing from combustibles, insulation thermal protection and suitable splice boxes
- □ Outside receptacles installed, and on ground-faultcircuit-interrupter protection (GFCI)
- □ Bathroom and garage receptacles on GFCI
- □ Proper setting of boxes as to type of construction.
- □ Support of switch, device, outlet, and receptacle boxes
- □ Cable clamps where required in device boxes
- □ Receptacle outlet installed behind gas range
- □ Outlet spacing at all counter tops in kitchen area
- \square Appliance branch circuits in kitchen and laundry
- \square Receptacle within 6 feet of laundry
- Equipment grounding terminal bar bonded to metallic cabinet in subpanel, neutral floating
- □ Lighting outlets as required at all exterior entrances or exits
- □ Switched receptacles or lighting outlets
- □ Lighting as required in attics or underfloor areas
- □ Location of bell transformer not outside of panels
- □ Listed floor boxes where located in the floor
- □ Only recognized types of wiring methods used
- \Box Access to all device, outlet and junction boxes.
- □ Unused or open knockouts sealed
- □ At least 6 inches of free conductor at all outlets
- □ All splicing complete, and neutrals spliced on multiwire branch circuits
- □ Proper wire connectors used at all splices
- □ Proper location of closet light

- Cables through or run parallel to studs, joists, or rafters
- □ Termination of equipment grounding conductors on metal boxes
- □ Conductors wrapped clockwise around device screws
- Proper polarity of fixtures and receptacles
- □ Identification of grounded conductors
- □ Accessibility of equipment requiring servicing
- □ Method of support of fixtures and equipment
- □ Circuits balanced and evenly proportioned in panels
- □ Same size equipment grounding conductor in nonmetallic-sheathed or Type UF cable
- □ No. 8 AWG stranded conductors installed in raceways, with exception for pools
- □ Material of ground clamp compatible with material of water pipe
- Ground clamp properly installed
- Ground rod (made electrode) properly installed
- □ Sizes and types of grounding electrodes
- □ Main switch installed at service entrance
- □ Aluminum grounding electrode conductor not permitted within 18" of the earth
- □ Sheath of non-metallic-sheathed cable not damaged
- □ Lighting and headroom at electrical equipment
- Depth of conduit or cable buried in the ground
- □ Completed panelboard circuit directory
- □ Equipment bonding jumpers at receptacles
- □ Proper weatherhead at service entrance, drip loop.
- □ Cables run properly in attic areas
- □ Insulated bushings where required at raceway ends
- □ Check temperature rating requirements at fixtures
- □ Check tightness of all locknuts, couplings, and connectors
- □ Grounding continuity of entire electrical system
- □ Switches and receptacles installed properly
- □ Configuration of range and dryer receptacles
- □ Raceways reamed, proper cutting die used at threads
- \square Boxes installed at all splices
- □ Boxes installed at all lighting fixture outlets
- □ No concealed flexible cord assemblies
- Dead-front cord caps and proper type and length of cord on food waste disposal and dishwasher
- □ Size and height of outside branch circuits
- \Box Radius of bends in cables
- □ Size of conduit body used for splicing
- □ Lugs listed for aluminum or copper conductors
- □ Proper point of attachment for service drop
- □ Type S fuses and adapters installed properly
- □ No storage in electric equipment room
- □ No fuse in grounded (neutral) conductor
- □ Service minimum of 3-wire 100 amperes
- □ Grounding electrode conductor not smaller than No. 8 AWG copper

- Grounding electrode conductor connected to a metal water pipe and other approved electrode with an approved ground clamp
- □ Service cable protected and secured to building
- □ Connection to ground clamp accessible

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- □ Service equipment suitable for short-circuit current
- □ All branch circuits, feeders, safety switches properly identified
- □ Panelboard not installed in clothes closet or where obstructed
- □ All splices proper and securely made
- \Box No switching in the neutral (grounded) conductor
- □ Type UF cable equipment grounding conductor integral with cable and of proper size
- □ Nonmetallic-sheathed cable NM-B not run where subject to physical damage
- □ Location of HVAC equipment disconnecting means
- □ Class 2 and 3 conductors not in same raceway with supply conductors to AC unit
- □ Conductors run in parallel for services or feeders
- □ Raceways installed as complete system
- □ Raceways not used as support for cables
- □ Installation of conductors with other systems
- □ Surge arresters installed in accordance with Article 280 and NFPA 780
- □ Metal underground gas pipe not used as grounding electrode
- D Points of bonding jumper attachment accessible
- □ Material of main bonding jumper
- □ Construction of main bonding jumper
- □ Attachment of main bonding jumper
- □ Method of bonding at service equipment
- □ Use of grounded circuit conductor for grounding equipment on supply and load side
- Equipment grounding types and materials
- □ Grounding of motor operated water pumps
- □ Entire system free from short circuits and grounds
- □ Anti-short bushings (redheads or red devils) installed at Type AC cable ends
- □ Receptacles connected to aluminum conductors marked CO/ALR
- □ Position of knife switches
- □ Snap switch 20 amp or less on aluminum marked CO/ALR
- □ Class P (thermally protected) ballasts for fluorescent fixtures
- □ Fixtures of proper type where installed in wet or damp locations
- □ Openings around electrical penetrations fire stopped
- Equipment grounding conductor installed
- □ Rating of single receptacle on individual circuit
- □ Bonding jumper installed around water meter and galvanized water pipe unions
- □ Proper ceiling bar boxes for hanging heavy lighting fixtures
- □ Service mast (periscope, stack, etc.) installation and support
- □ Independent support of fixtures in excess of 50 lbs.
- □ Secured grounding electrode conductor
- □ Receptacle accessible where disposal, dishwasher or trash compactor are cord-and-plug connected
- \Box TV antenna not secured to electric service mast
- \Box Not more than one cable assembly under one clamp

- □ Subpanel not protected by overcurrent device larger than rating of bus
- □ Quantity of circuit breakers, CTL type, in panelboard
- Splices in panelboards or enclosures
- □ Operating temperature of SE conductors
- □ Feeder includes an equipment grounding conductor
- □ Neutral (grounded conductor) disconnect link at service equipment
- □ Rating of service disconnect
- □ Proper use and installation of equipment
- □ Support of electric equipment
- Prevention of physical damage

B. Final Inspection

- □ Air-conditioning equipment connected in an approved manner
- □ All circuits tested for proper operation
- □ All circuits 2-pole type provided with a suitable handle-tie (not a nail or screw)
- □ All devices in place with proper plates installed
- □ All equipment exposed to weather of approved or listed type.
- □ All spare or unused outlet boxes have conductors taped off and blank covers installed
- □ Bonding-type bushings on service raceways and bonding jumpers where required
- □ Circuit breakers or fuses of proper size
- □ Clearance of service drop and drip loop
- □ Conductors other than service conductors not installed in a service raceway except for grounding conductors and load management conductors having overcurrent protection
- □ Covers installed on all fuse or circuit-breaker panels
- □ Dishwasher/food waste disposal frames properly grounded
- □ Ensure tight connections and check grounding continuity throughout
- □ Fixtures properly hung
- □ Frames of ranges and dryers properly grounded.
- \Box Ground clamp of the approved type.
- Ground-fault circuit-interrupter(s) installed for outdoor, rooftops, garage, basement, kitchen and bathroom receptacles
- Grounding electrode conductor run in raceway when subject to damage. Enclosed in a continuous metal raceway or bonded
- Grounding-type receptacles at all locations
- □ Lighting outlets where required
- □ Metal service raceway properly grounded
- □ Neutral properly grounded and properly identified
- Overcurrent protection on all motors that automatically start
- □ Panel directory properly filled in either with typed page or ink (not Pencils)
- □ Proper label of qualified electrical testing laboratory on all equipment
- □ Proper working clearances at all panelboards, service equipment, and motors
- □ Proper working space at all electric equipment
- □ Proper working space at all electric equipment
- □ Proper-size service-entrance conductors
- □ Raceways sealed at entry into building

□ Service conductors enclosed in approved raceways or cables

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- □ Service switch externally operated
- □ Service switch of suitable current and voltage
- □ Service switch properly grounded
- □ Service switch to disconnect all equipment
- □ Soldered connections not used at services

C. Additional Comments

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Product information / Required reports / Etc.

LIST OF INSPECTORS

Michael Setzer

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- Reg. # 2434
- Building Official
- Building Inspector
- Plan Reviewer

Ronald Wheatley

- Reg. #4955
- Building Official
- Building Inspector
- Plan Reviewer

Donald Pawlowski

- Reg. # 4911
- Electrical Inspector
- Plan Reviewer

Alton Wicker

- Reg.
- Electrical Inspector
- Plan Reviewer

Merle West

- Reg. # 4108
- Mechanical Inspector
- Plumbing Inspector
- Plan Reviewer

Jeffrey M. Hugo

- Reg. # 3608
- Building Official
- Building Inspector
- Plan Reviewer

CBA PROCEDURES (125.1514)

City of Frankenmuth 240 W. Genesee Street Frankenmuth, MI 48734-1398 Telephone: (989) 652-9901 • Fax: (989) 652-3451 Website: www.frankenmuthcity.com

Construction Board of Appeals Procedures

The following procedures are hereby adopted by the City Council of the City of Frankenmuth to facilitate the duties as outlined in the State Construction Code Act, 1972 PA 230.

SECTION 1. ESTABLISHMENT.

- A. Members-The Construction Board of Appeals shall consist of not less than three (3) members.
- B. Tenure-Members shall be appointed for two (2) year terms. All terms shall be concurrent.
- C. **Appointment-Members** shall be appointed by the City Manager and the Saginaw County Board of Commissioners Chairperson. Members shall then be affirmed by the City Council.
- D. **Appointment Criteria**-A member of the Board of Appeals shall be qualified by experience or training in construction and possess a working knowledge of the codes being enforced.

SECTION 2. MEETING REQUIREMENTS.

- A. **Meetings-**The Construction Board of Appeals shall meet, at a minimum, once yearly to select their officers and review State rule changes. All meetings, except the annual meeting, shall be considered SPECIAL MEETINGS and will be called as needed based on case load.
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- C. **Special Meetings-**Special meetings of the Construction Board of Appeals shall be held in compliance with the Open Meetings Act, PA 267 of the Public Acts of 1976.
- D. Publication Notice Requirements-Meeting notices shall contain the following:
 - Name, address, and telephone number of the City office.
 - The date, time and location of the meeting.
 - The applicant(s) and the nature of their request(s).

E. **Notice to Interested Parties**-Notice shall be given to all interested parties via First Class U.S Mail and shall include the following:

- The date, hour, place, and nature of the hearing.
- A statement of the legal authority and jurisdiction under which the hearing is to be held.
- A reference to the particular section(s) of the statutes, rules or codes involved.
- A short statement of the matters declared.

F. **Meeting Minutes**-Minutes shall be kept of all Board of Appeals meetings and shall contain the date, time, and place of the meeting, members present and absent, any decision made, and a reference to the substance and disposition of all roll call votes, including how each member voted. Draft minutes shall be available not more than eight (8) business days after the meeting to which the minutes refer.

G. **Public Hearings-** All public hearings held by the Construction Board of Appeals must be held as part of a regular or special meeting of the Construction Board of Appeals. The following rules of procedure shall apply to public hearings held by the Construction board of Appeals:

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- 5. Applicant has the ability to cross-examine the City Building Official/Inspector
- 6. Persons wishing to comment on the request are recognized.
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- 9. Construction Board of Appeals deliberates and decides.

SECTION 3. VARIANCES.

- A. **Variances of the Code-**The Construction Board of Appeals may grant a specific variance to a substantive requirement of the code if the literal application of the substantive requirement would result in an exceptional, practical difficulty to the applicant, and if <u>both</u> of the following requirements are satisfied:
 - The performance of the particular item or part of the building or structure with respect to which the variance is granted shall be adequate for its intended use and shall not substantially deviate from the performance required by the code of that particular item or part of the health, safety, and welfare of the people of the City of Frankenmuth and of the State.
 - 2. The specific condition justifying the variance shall be neither so general nor recurrent in nature as to make an amendment of the code with respect to the condition reasonable, practical or desirable.
- B. **Conditions-**The Construction Board of Appeals may attach in writing any condition in connection with the granting of a variance that in its judgment is necessary to protect the health, safety and welfare of the people of the City of Frankenmuth and of the State. The breach of a condition shall

automatically invalidate the variance and any permit, license and certificate granted on the basis of it.

C. **Minimum Relief-In** no case shall more than the minimum variance from the code be granted to alleviate the exceptional, practical difficulty.

SECTION 4. APPEALS.

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CBA PROCEDURES (125.1514)

Township of Frankenmuth 240 W. Genesee Street Frankenmuth, MI 48734-1398 Telephone: (989) 652-6741 • Fax: (989) 652-3795 Website: www.frankenmuthtwp.com

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CBA PROCEDURES (125.1514)

Township of Blumfield 1175 W. Vassar Road Reese, MI 48757 Telephone: (989) 868-9512 • Fax: (989) 868-9519 Website: www.blumfieldtwp.org

Construction Board of Appeals Procedures

The following procedures are hereby adopted by the Township Board of Blumfield to facilitate the duties as outlined in the State Construction Code Act, 1972 PA 230.

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CBA MEMBERS (125.1514)

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Construction Board of Appeals Members

- 1. Representative of Engineering4. Patrick PetersonFirm designated by the
jurisdiction.Image: Comparison of EngineeringBirch Run, MI. 48415
- 2. Thomas A. Gerken Licensed Builder

Bridgeport, MI. 48722 (989)

3. Mark A. Latch Structural Engineer

> Sagina<u>w, MI. 48</u>601 (989)

- Birch Run, MI. 48415 (989)
- **5. Ronald Wheatley** Building Official Birch Run, MI. 48415

(989)

6. Samuel Placher Electrical Contractor

> Bridgeport, MI. 48722 (989)

FLOODPLAIN AND WETLANDS MANAGEMENT PRACTICES:

The jurisdictions participate in the National Flood Insurance Program. New construction permit applications are reviewed for whether or not they are reasonably located in a Special Flood Hazard Area (SFHA) as defined by the Federal Emergency Management Agency (FEMA) and as illustrated in the locally adopted Flood Insurance Rate Map (FIRM).

Permit applications for properties determined to be located in a SFHA and that would impact or be conducted within a floodplain/floodway are then referred to the regional office of the Michigan Department of Environmental Quality (MDEQ) for review prior to the issuance of any permits.

REGISTRATION OF CONTRACTOR LICENSE:

In accordance with Act 299 of 1980 Article 24 any person who contracts with a property owner to perform residential construction or remodeling projects which total value is \$600.00 or more, including material and labor, is required to be licensed with the State of Michigan as either a residential Builder or Alteration Contractor and register with the jurisdiction as a licensed contractor.

The following is the process for registering:

1. Complete a Contractor Registration form with all required information.

COMPLAINT PROCESSING AND RESOLUTION PROCEDURES:

There comes a time in every community when the adopted codes and standards are violated, whether intentional or unintentional is irrelevant. The credibility of successful building codes lies not only in the ability to administer them reasonably and fairly, but in the ability to enforce specific trade code requirements. The following criteria should be evaluated every time a complaint or a code violation has been determined.

1. INVESTIGATION:

Upon receiving a complaint or discovering a code violation the authorized inspector or administrative staff shall:

- a. Log the code violation and all relevant documentation into the data base.
- b. Verify the contractor has been notified either by personal delivery of the inspection correction notice or by first class mail.
- c. Discuss the specific correction action with the Building Official for follow up with the contractor involved.

2. RESOLUTION OF VIOLATION:

After the violation has been documented, the Building Official shall follow up with the contractor and/or "Person in Responsible Charge" of the project to obtain compliance.

- a. Once compliance has been obtained the portion of the work resulting in the violation shall be re-inspected by the authority having jurisdiction.
- b. An approved re-inspection shall be required to proceed with the portion of the project affected by the violation.
- c. If the "Person in Responsible Charge" of the project does not cause the work in violation of the code to be corrected pursuant to the correction notice the authority having jurisdiction may proceed to secure compliance as provided by law and further institute in an appropriate court an injunction, mandamus, abatement or other appropriate proceedings to enjoin, abate or remove any violation of the code.

HOURS OF OPERATION FOR THE BUILDING DEPARTMENT

The hours of operation for the Construction Code Group (CCG) Building Department are Monday through Friday 8:30 am until 5:00 pm. The CCG is located in the Municipal Building at 240 W. Genesee St. Frankenmuth, MI. 48734. Offices are closed on the following Holidays: New Year's Eve New Year's Day Good Friday Memorial Day Independence Day Labor Day Thanksgiving Day/and day after

Christmas Day/and day before

"WARNER"

201

Please check with the office as to any changes to these dates.

CONSTRUCTION CODE GROUP (CCG)

Administrative Information for Tuscola Township 2017

- **1. Application to Administer and Enforce**
- 2. Ordinance to Administer and Enforce
- 3. County Commissioner Signature Page/CBA
- 4. Appointment of CBA
- **5. Joint Enforcement Agreement**
- 6. Amended Interlocal Agreement
- 7. Amended By-Laws
- 8. Employment Agreements
- 9. Inspector Registrations
- **10. Applications and Permits**
- **11. Plan Review Documents**
- **12. Access to Referenced Standards**
- **13. Miscellaneous Documents**
- 14. Annual Budget/CCG

Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 E-Mail: bccoas@michigan.gov www.michigan.gov/bcc

		<u> </u>					
			ARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable ccommodations are available upon request to individuals with disabilities,				
Penalty: Fallure to provide the information may result in der	nial of your request,	accom					
NAME OF GOVERNMENTAL SUBDIVISION			CONTACT PERSON (Elected Official)				
Tuscola Township			Tod Fackler				
ADDRESS (Street Number and Name)						<u></u>	
8561 Van Cleve Rd. (P.O. Box 1702, V							
CITY	COUNTY				STATE	ZIP CODE	
Vassar	Tuscola			(=	<u>MI</u>	48768	
TELEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include Area Cod	, .		E-MAIL ADDRESS			
(989) 871-4507	(989) 871-6628			tuscolatownship@tds.net			
Code Adoption			e ne en liene. F				
To assume responsibility for the admini 1972 PA 230. Attach a copy of the cer of the act and the code.							
State Code(s) to be Enforced							
🗹 Building 🛛 🗹 E	lectrical		년 м	echanical		Plumbin	
By checking the boxes below you are certify	ing the following:						
☑ The governmental subdivision and the enforcing agency are qualified by experience or training to administer and enforce this act							
and the code and all related acts and rules.							
Agency personnel are provided as necesary.							
☑ Administrative services are provided.							
☑ Plan review services are provided.							
☑ Timely field inspection services will be provided.							
☑ A Board of Appeals is in place per MCL 125.1514.							
☑ Have immediate access to the codes & standards for which you have applied to administer & enforce.							
BUILDING OFFICIAL INFORMATION Name: Michael W. Setzer				Registra	Registration Number: 2434		
Certification							
I certify the information given in this appli				····		st of my knowledge	
Name of Elected Official (Type or Print)	Tod Fackler			Title	Super	VISOr	
Signature of Elected Official	Julla		<i>"</i>	Date	9-20	- 2016	

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rev, 03/15)

TUSCOLA TOWNSHIP

TUSCOLA COUNTY, MICHIGAN

ORDINANCE NO. 2016-1

ADOPTED: SEPTEMBER 20, 2016

EFFECTIVE: JANUARY 1, 2017

An Ordinance to assume Township responsibility for administration and enforcement of the Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, as amended, and the State Construction Code promulgated thereunder; to provide for the designation of an enforcing agency to discharge the responsibilities of the Township hereunder; to provide for the establishment of fees; to repeal all conflicting ordinances; to provide for severability; and to provide an effective date.

THE TOWNSHIP OF TUSCOLA TUSCOLA COUNTY, MICHIGAN

ORDAINS:

SECTION I

ASSUMPTION OF ADMINISTRATION AND ENFORCEMENT RESPONSIBILITY

Pursuant to Section 8b(6) of the Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, as amended, MCL 125.1508b(6), Tuscola Township, Tuscola County, Michigan, hereby assumes the responsibility to administer and enforce 1972 PA 230, as amended, and the State Construction Code adopted thereunder as the same is currently in effect and as may from time to time be amended. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

SECTION 2

DESIGNATION OF ENFORCING AGENCY

In accordance with the Urban Cooperation Act (1967 P.A. Ex. Ses 7), Section 8b of the 1972 PA 230, as amended, and other pertinent Michigan statutes, the Township has

entered into an agreement with other governmental subdivisions for the joint administration and enforcement of 1972 PA 230, as amended, the State Construction Code and this Ordinance through a separate legal entity which is a public body corporate and is known as the Construction Code Group. Consistent with that agreement, the Township hereby designates the person(s) appointed and employed by the Construction Code Group as Building Official(s) as the enforcing agency to discharge the responsibility of the Township for the administration and enforcement of 1972 PA 230, as amended, the State Construction Code and this Ordinance.

SECTION 3

FEES

The Board of the Construction Code Group is hereby given the authority to establish by resolution at any public meeting a schedule of fees, rates and charges for the administration and enforcement of 1972 PA 230, as amended, the State Construction Code and this Ordinance, and for the conducting of various activities authorized by said Act/Code and this Ordinance; provided that the same shall be reasonable and bear a reasonable relationship to the cost and expense of such administration, enforcement and activity. The Board of the Construction Code Group shall further have the right to amend by resolution the aforementioned schedule from time to time within the foregoing limits of reasonableness.

SECTION 4

REPEAL OF CONFLICTING ORDINANCES AND SAVINGS CLAUSE

Any proceedings pending, including permits and prosecutions for violations, under any previous construction code administration in Tuscola Township shall not be affected by this Ordinance and may be continued pursuant to said previous administration. All ordinances and parts of ordinances in conflict herewith are hereby repealed.

SECTION 5

SEVERABILITY

Should any part of this Ordinance or the aforementioned Code being administered and enforced hereunder be declared unconstitutional, illegal or of no force and effect by a court of competent jurisdiction, such portion thereof shall not be deemed to affect the validity of any other part or portion thereof.

2

SECTION 6

EFFECTIVE DATE

This Ordinance shall be effective on January 1, 2017.

TUSCOLA TOWNSHIP Michelle Hicks, Clerk 8805 Loren Road Vassar, MI 48768

CERTIFICATE

I, Michelle Hicks, the Clerk for Tuscola Township, Tuscola County, Michigan certify that the foregoing is a true and complete copy of an Ordinance adopted by the Township Board of the Township of Tuscola at a regular meeting held on September, 20 2016 and I further certify that public notice of such meeting was given as provided by law.

Muchelle Hicks, Clerk

Attested by:

- Viente

Tod Fackler, Supervisor

CERTIFICATE OF ADOPTION

Michelle Hicks, Tuscola Township Clerk, hereby certifies that in pursuance of law and statute provided, the Board enacted and passed Ordinance No. <u>2016</u> at a regular meeting of the Township Board held on September 20, 2016, at the Township Hall, said Ordinance to become effective on January 1, 2017.

Motion by <u>Hicks</u>, support by <u>Olson</u>.

The following members voted "aye":

Tod Fackler Michelle Hicks Shirley Olson Sarah Barber Robert Verbeek

The following members voted "nay":

The following member was absent:

I further certify that in accordance with Township Board direction the adopted Ordinance was published in the <u>TUSCOLA County Advertison</u> <u>October 22</u>, 2016, and that said Ordinance was recorded in the Ordinance book on <u>October 26</u>, 2016

DATED: 10 26-16

Joko Clurk

Attest: Aupervin

Fod Fackler, Supervisor

Township of Tuscola 8861 Van Cleve Road Vassar, MI 48768 Telephone: (989) 871-4507

_____, 2016

_____, Chairperson Tuscola County Board of Commissioners

Caro, MI

- and days

RE: Construction Board of Appeals – Tuscola Township.

Dear _____,

As you may be aware, local units of government enforcing the Still-DeRossett-Hale Single State Construction Code Act, Act 230 of 1972 are required under Section 125.1514 to have the construction board of appeals members appointed by the chief executive officer of the township <u>and</u> the chairperson of the County Board of Commissioners.

The attached approvals were executed by me upon approval by the Township Board as listed below. We are requesting your assistance in completing the Public Act 230 requirement.

Thomas A. Gerken-Licensed Builder, Mark A. Latch-Structural Engineer, Patrick Peterson-Plumbing & Mechanical Contractor, Ronald J. Wheatley-Building Official, Samuel Placher-Licensed Electrician, and A professional engineer from a firm representing the Entity

Please sign below and return a copy to me at your earliest convenience. Your signature will indicate approval of the members as they are listed on this correspondence and return same in the enclosed self-addressed stamped envelope. Thank you for your assistance with this matter.

Michael Setzer Building Official for Three Entities _____, Chairperson Tuscola County Board of Commissioners

Enclosure

RESOLUTION NO. 2016-01

APPOINTMENT OF CONSTRUCTION BOARD OF APPEALS

WHEREAS, the Township of Tuscola adopted an ordinance assuming enforcement of the Michigan Construction Codes and the establishment of a Construction Board of Appeals, and

WHEREAS, the purpose of the Construction Board of Appeals shall be to provide an appeal or any person allegedly aggrieved by a decision of the Building Official or Code Inspector as it pertains to, but not limited to the construction, modification, alteration or abatement of a structure, and

WHEREAS, the Construction Board of Appeals shall consist of not less than three (3) nor more than seven (7) members that shall serve two-year terms, and

WHEREAS, in accordance with 1972 PA 230, as amended, the Chief Executive Office shall appoint members to the Construction Board of Appeals and shall be affirmed by the Township Board of Trustees.

NOW BE IT FURTHER RESOLVED, that the Township Board of Trustees, by an affirmative vote of its members, does hereby affirm the following appointees to the Township of Tuscola Construction Board of Appeals:

> Thomas A. Gerken - Licensed Builder Mark A. Latch - Structural Engineer Patrick Peterson - Plumbing & Mechanical Contractor Ronald J. Wheatley - Building Official Samuel Placher - Licensed Electrician Representative of Engineering Firm designated by the City

BE IT FURTHER RESOLVED, that the Township Board of Trustees, by an affirmative vote of its members, designate the appointments to the Township of Tuscola Board of Construction as a two year term, expiring March 30, 2018.

Action <u>//wne-21, 2016</u> Date <u>6-21-2016</u>

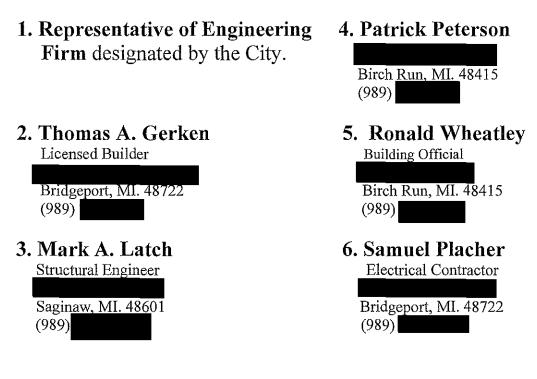
A WOWLY

Ja.1.

TOD FACKLER, SUPERVISOR

File Name: Clerk/Resolution Samples

Township of Tuscola **Construction Board of Appeals** June 21, 2016



I, Tod Fackler, being the Chief Executive Officer of the Township of Tuscola, do hereby appoint the above persons to a two year term on the Construction Board of Appeals for the Township of Tuscola. Said terms shall expire March 31, 2018. This appointment is in accordance with Public Act 230 of 1972, as amended.

n. Tod Fackler, Township Supervisor

Dated: 6-21-2016

UNAPPROVED MINU TOWNSHIP BOARD HE

The meeting was called to ord

Roll call: Present-Bushong, Fa

Olson made a motion to appr Carried.

Olson made a motion to app Bishop. Carried.

Jour enforcent Agreement. 11-8-2011

leep Tuscola

Bishop reported that the Planning Commission had a special meeting with Blasius, Inc. regarding their new addition.

Bushong reported that the Board of Appeals had completed their by-laws. Bushong also stated that the pavilion will be completed this fall.

Schmandt distributed the Zoning Administrator's blight list for November.

Fackler reported that the property at 4855 Byron Dr. has complied with the blight clean-up.

There was some discussion concerning the Cass River Greenway Water Trail Development. The project is nearing completion and the township will ask to meet with Spicer Group concerning the additional cost after that.

After some discussion concerning the clean-up of the septic tank grounds, Fackler made a motion to approve Dave Erbisch to restore this area not to exceed 16 hours and this motion was seconded by Bushong. Carried.

Fackler distributed a report from the Cass River Greenway regarding the Natural Lands Inventory for Lower Cass River-2011. This study was conducted by UM Flint and the Cass River Greenway.

There was discussion regarding the Construction Code Group By-laws and the Resolution of Understanding for the Joint Enforcement and Administration of Construction Codes. Tuscola Township will become a member of Construction Code Group which currently consist of the City of Frankenmuth, the Township of Blumfield and the Township of Frankenmuth effective January 1, 2012. Bushong made a motion authorizing Tod Fackler as signee of the agreement

Township of Frankenmuth

P.O. Box 245, Frankenmuth, MI 48734

RESOLUTION NO. 2011-11-28

RESOLUTION OF UNDERSTANDING FOR THE JOINT ENFORCEMENT AND ADMINISTRATION OF CONSTRUCTION CODES

WHEREAS, the City of Frankenmuth, the Township of Blumfield and the Township of Frankenmuth, all units of local government in Saginaw County, have provided for the joint administration and enforcement of construction codes within their respective limits by the creation of a Construction Code Group, hereinafter referred to as "Group", and

WHEREAS, upon review of the Interlocal Agreement creating the Group and the Group's By-laws it was determined that certain amendments to those documents should be made, and

WHEREAS, the Township of Frankenmuth also agrees that the Interlocal Agreement and the Group's By-laws should be amended.

NOW, THEREFORE BE IT RESOLVED THAT THE TOWNSHIP OF **FRANKENMUTH:**

1. Hereby agrees to the Group's amended Interlocal Agreement as attached hereto, subject to the Agreement being adopted by the City of Frankenmuth and the Township of Frankenmuth.

2. Approves the Group's amended by-laws attached hereto.

3. Appoints Ronald Bell, Treasurer, as trustee and Timothy Hildner, Supervisor, as alternate trustee to serve as its representatives to said Group.

4. Authorizes the Township Supervisor to execute the attached amended Interlocal Agreement.

Ayes: 5 Nays: 0 Absent: 0

Action: Resolution Adopted Dated: November 28, 2011

Tim Hildner, Supervisor

CERTIFICATION OF TOWNSHIP CLERK

I, Sandra K. Humpert, as clerk of the Township of Frankenmuth, hereby certify that the foregoing is a true resolution adopted by the Board of Trustees of the Township of Frankenmuth at a regular meeting thereof held on November 28, 2011, at the City & Township Government Center, 240 W. Genesee Street, Frankenmuth, Michigan.

Sandra K. Humpert, Clerk Frankenmuth T

Sandra K. Humpert, Clerk Frankenmuth Township November 28, 2011 Resolution No. 2011-11-28

RESOLUTION OF UNDERSTANDING FOR THE JOINT ENFORCEMENT AND ADMINISTRATION OF CONSTRUCTION CODES

WHEREAS, the City of Frankenmuth, the Township of Blumfield and the Township of Frankenmuth, all units of local government in Saginaw County, have provided for the joint administration and enforcement of construction codes within their respective limits by the creation of a Construction Code Group, hereinafter referred to as "Group", and

WHEREAS, upon review of the Interlocal Agreement creating the Group and the Group's By-laws it was determined that certain amendments to those documents should be made, and

WHEREAS, the Township of Blumfield also agrees that the Interlocal Agreement and the Group's By-laws should be amended.

NOW, THEREFORE BE IT RESOLVED THAT THE TOWNSHIP OF BLUMFIELD:

1. Hereby agrees to the Group's amended Interlocal Agreement as attached hereto, subject to the Agreement being adopted by the City of Frankenmuth and the Township of Blumfield.

2. Approves the Group's amended by-laws attached hereto.

3. Appoints _____ Ralph Frahm _____ as trustee and _Wesley Reinbold ______ as alternate trustee to serve as its representatives to said Group.

4. Authorizes the Clerk to execute the attached amended Interlocal Agreement.

Action: ___4 yeas 0 nays_____

Dated: 1/10/2012

Ed fortheringe

RESOLUTION NO. 2011-<u>99</u> RESOLUTION OF UNDERSTANDING FOR THE JOINT ENFORCEMENT AND ADMINISTRATION OF CONSTRUCTION CODES

WHEREAS, the City of Frankenmuth, the Township of Blumfield and the Township of Frankenmuth, all units of local government in Saginaw County, have provided for the joint administration and enforcement of construction codes within their respective limits by the creation of a Construction Code Group, hereinafter referred to as "Group", and

WHEREAS, upon review of the Interlocal Agreement creating the Group and the Group's By-laws it was determined that certain amendments to those documents should be made, and

WHEREAS, the City of Frankenmuth also agrees that the Interlocal Agreement and the Group's By-laws should be amended.

NOW, THEREFORE BE IT RESOLVED THAT THE CITY OF FRANKENMUTH:

1. Hereby agrees to the Group's amended Interlocal Agreement as attached hereto, subject to the Agreement being adopted by the Township of Blumfield and the Township of Frankenmuth.

2. Approves the Group's amended by-laws attached hereto.

3. Appoints the City Manager as trustee and the City Treasurer as alternate trustee to serve as its representatives to said Group.

4. Authorizes the Mayor and Clerk to execute the attached amended Interlocal Agreement.

Action

Date 11-9-2011

GARY C. RUPPRECHT, MAYOR

W. KERNS, CLERK

2

AN AMENDED INTERLOCAL AGREEMENT ESTABLISHING CONSTRUCTION CODE GROUP

(MICHIGAN URBAN COOPERATION ACT 1967)

WHEREAS, the City of Frankenmuth, Township of Frankenmuth, and Township of Blumfield, all of Saginaw County, and the Township of Tuscola of Tuscola County, are participating units of government in this Interlocal Agreement and establishment of a Construction Code Group;

WHEREAS, the participating units of government have assumed enforcement authority of the Michigan Construction Codes under Public Act 230 of 1972, as amended, (hereinafter referred to as "construction codes") for regulating construction within each of said unit of government.

WHEREAS, it is the desire of the units of government to cooperate in providing for the joint enforcement and administration of provisions of the construction codes and other government ordinances; and

WHEREAS, it is the desire of the units of government to retain local control of construction code enforcement and, at the same time, provide prompt inspection services to owners and contractors.

NOW, THEREFORE, IT IS HEREBY AGREED AS FOLLOWS:

1. ESTABLISHMENT

The units of government agree to establish a Construction Code Group (hereinafter referred to as "Group"). Pursuant to MCLA 124.507, the Group is established as a separate body corporate.

2. PURPOSE.

"GATTOP"

The purpose of said Group shall be:

- 2.1 to administer and enforce certain construction codes and other ordinances adopted by each of the participating units of government;
- 2.2 to provide contractual inspection services and grant administration services to units of government;
- 2.3 to hire competent inspectors and other personnel necessary to accomplish the foregoing;

- 2.4 to establish appropriate policies and rules for the construction code enforcement program;
- 2.5 to arrange for a convenient location where records can be maintained and permits and inspections may be obtained;
- 2.6 to establish a uniform schedule of fees for permits and inspections; and
- 2.7 to maintain books of account for all receipts and expenditures by the Group.

3. ORGANIZATION.

Each participating unit of government shall appoint a trustee and alternate trustee to the Group. These trustees shall constitute the Group Board of Directors in accordance with the By-Laws of the Group. Each trustee shall serve a term of three (3) years. The trustee may be removed by the appointing governing body at will. The Board of Directors shall annually elect a chairperson, vice-chairperson, and secretary-treasurer. The Board of Directors shall appoint an administrator who will have the power to conduct the day-to-day business of the Group. The Board of Directors shall meet at least one time per year and shall provide minutes of its meetings to each participating unit of government.

4. FINANCES.

The Board of Directors shall annually prepare a proposed budget for the review and approval of each municipality. The proposed budget shall show the projected revenues and expenses during the next fiscal year beginning July 1. The proposed budget shall be based on a fee schedule designed to cover all projected expenses. Budget amendments shall be reviewed and approved by the Board of Directors. If for any reason the expenditures exceed the revenue during any fiscal year, the Group may require a contribution from all participating units of government in proportion to the number of permits issued for the unit of government in comparison to the total number of permits issued for all units of government which are members of the Group.

5. ENFORCEMENT.

- ALUSA

The Group shall be responsible for enforcing the various construction codes specified by the units of government. However, any decision as to whether to institute Circuit Court action, and the cost thereof, shall be the responsibility of the individual unit of government in which the violation occurs.

6. CONSTRUCTION BOARD OF APPEALS.

A Construction Board of Appeals, made up of 3 members, shall be recommended by the Board of Directors to act for the participating units of government and shall be appointed by the

Page 2 of 4

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participating units of government. The terms of the members of the Construction Board of Appeals shall be five (5) years with the first appointees having staggered terms between one (1) and five (5) years. The Construction Board of appeals shall have such authority as is set forth in the various units of government ordinances and the authority specified in the State Construction Code Act (P.A. 230 of 1972 as amended). The Construction Board of Appeals shall establish the rules of procedure under which it operates, subject to approval by the participating units of government.

7. TERMS OF AGREEMENT.

The undersigned units of government hereby agree to be bound by the terms of this agreement. Each unit of government shall continue to be bound by this Agreement for each year thereafter unless the unit of government specifically terminates its participation, the unit of government is expelled, or the Group votes to dissolve.

8. TERMS OF MEMBERSHIP

(A) Termination shall be accomplished by delivery of written notification of termination to the Board of Directors at least one year in advance of the desired termination date. No assets shall be distributed to any terminating unit of government unless the Group discontinues operations entirely and in that case only if the terminating unit has been a member of the Group for at least 5 years.

(B) Only those members of the Group that have been members for at least 5 years may request a vote on whether the Group should dissolve and upon an affirmative vote by 2/3 of such members the Group shall be deemed dissolved. Subsequent to a decision to dissolve only those jobs that have been assigned will be completed and no new jobs will be started. After determining that all jobs have been completed and all expenses of the Group have been paid the administrator shall distribute the Group's remaining assets based on the percentage of revenue derived from each member's building permits averaged over the preceding 5 years. Distributions will only be made upon dissolution and only to those members eligible to vote on the question of whether to dissolve. No distribution will be made to any member who requests to terminate its membership.

(C) Any member may be expelled from the Group upon the unanimous vote of the other Trustees. Expulsion may be for any reason or for no reason. An expelled member is not entitled to any distribution from any fund balance accumulated by the Group. Expulsion will be effective no more than 180 days after an affirmative vote. An expelled member may request expulsion to be effective sooner. The Trustees may vote upon such request. Note: The above provision was not unanimously adopted by all units. Therefore, sub-section 8(c) is null and void.

9. ADDITIONAL MEMBERS.

Any unit of government in Michigan may request and upon approval by not less than two-thirds of the Trustees representing the original three members of the Group (Blumfield Township, City of Frankenmuth, and Frankenmuth Township) may become a member of the Group. Upon approval, the new member shall have the same rights and responsibilities as are provided for all other members; however, a new member shall have no right or interest in any fund balance accumulated by the Group prior to the new member's admission if five (5) years have not elapsed since their becoming a member.

10. CONTRACTED SERVICES.

Services may be provided to nonmember units of government on a contract basis provided that such additional services shall not interfere with the services which are provided to the participating units of government.

11. AMENDMENTS.

"teach"

This Agreement may be amended at any time by unanimous agreement of all participating units of government. Any proposed amendments must be submitted to the Board of Directors for initial review and comment.

Dated: /1-9-2011

Dated: <u>12-5-11</u>

Dated: 01-10-2012

CITY OF FRANKENMUTH

By: Its:

TOWNSHIP OF FRANKENMUTH By SUPFRVISOR Its: (

TOWNSHIP OF BLUMFIELD By: Its:

TOWNSHIP OF TUSCOLA

By: Its:

Dated: 11-08-2011

Page 4 of 4

AMENDED BY-LAWS of the CONSTRUCTION CODE GROUP

Article I. Office

The principal office of the Construction Code Group (the "Group") shall be located at a place which is determined by the Group Board of Directors (The "Board"), from time to time.

Article II. Fiscal Year

The fiscal year of the Group shall be the calendar year ending June 30.

"A Designation of

Article III. Board Meetings

Section 1. Annual Meetings. The annual meeting of the Group Board of Directors (the "Board") shall be held during the third quarter in each fiscal year at a place and time designated by the Board.

Section 2. Regular Meetings. The regular meeting of the Board shall be its annual meeting.

Section 3. Open Meetings Act. All meetings of the Board shall be conducted at a public meeting held in compliance with Act No. 267 of the Public Acts of Michigan of 1976, as amended ("Open Meetings Act"). Public notice of the time, date and place of the meeting shall be given in the manner required by the Open Meetings Act.

Section 4. Special Meetings. Special meetings of the Board shall be held when called by the Chairperson or by one third (1/3) of the Trustees.

Section 5. Notice of Special Meetings. Written notice of special meetings of the Board, stating the time, date and place of meeting, shall be served upon each Trustee personally, or by leaving it at his or her place of residence at least twenty-four (24) hours prior to the time of such meeting, or by depositing the same in a United States Post Office Mail Box within the limits of the Group at least seventy-two (72) hours prior to the time of such meeting, enclosed in a sealed envelope properly addressed to him or her at his or her home or office address, with postage fully prepaid. Any meeting at which all Trustees are present shall be a valid meeting, and all action taken shall be valid, irrespective of lack of notice of the meeting.

Section 6. Notice of Annual Meetings. Written notice of annual meetings of the Board, stating the time, date and place where it is to be held, shall be served by depositing the same in a United States Post Office Mail Box within the limits of the Group at least five (5) days prior to the time of such meeting, properly addressed to him or her at his or her home or office address, with postage fully prepaid thereon. Any meeting at which all Trustees are present shall be a valid

Page 1 of 5

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meeting, and all action taken shall be valid, irrespective of lack of notice. No notice shall be required for regular meetings which are scheduled under Section 2 of this Article.

Section 7. Waiver of Notice of Meeting. Notice may be waived in writing either before or after a meeting.

Section 8. Quorum. At least a majority of the Trustees of the entire Board shall be required for a quorum.

Section 9. Voting. The Board shall act by motion, resolution, regulation or consent to action. An affirmative vote of a majority of the Trustees shall be sufficient for all actions unless otherwise be provided in these By-Laws.

Article IV. Intentionally Left Blank

Article V. Officers

a. The officers of the Group shall consist of a Chairperson, Vice Chairperson, Secretary/ Treasurer, and such other officers as the Board may from time to time deem advisable. All officers are required to be a member of the Board.

b. The officers of the Group shall be elected by the Board at the regular annual meeting of the Board.

c. Each officer shall hold office until the annual meeting of the Board next succeeding his or her election, and until his or her successor shall have been elected and qualified, or until his or her death, resignation or removal.

d. Any officer may resign at any time by giving written notice, of such resignation to the Board or to the Chairperson or Secretary of the Group. Unless otherwise specified in such written notice, such resignation shall take effect upon receipt thereof by the Board, or by the Chairperson, and the acceptance of such resignation shall not be necessary to make it effective.

e. Any officer may be removed, either with or without cause, and a successor elected by the Board at any time.

f. A vacancy in the office by reason of death, resignation, inability to act, disqualification, or any other cause, may at any time be filled for the unexpired portion of the term by the Board.

g. Officers of the Group shall, unless otherwise provided by the Board, each have such powers and duties as generally pertain to their respective offices as well as such powers and duties set forth in the Interlocal Agreement of the Group, or which may from time to time be specifically conferred or imposed by the Board. The Chairperson shall be the chief executive officer of the Group.

Article VI. Indemnification of Officers and Trustees

The Group shall indemnify every Group Trustee and Officer against all expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her as a consequence of his being made a party to or being threatened to be made a party to any threatened, pending or contemplated civil or administrative action, suit or proceeding, by reason of his being or having been a trustee or officer of the Group, except in such cases where he or she is adjudged guilty of willful and wanton misconduct or gross negligence in the performance of his or her duties or adjudged to have not acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interest of the Group and its members. If a trustee or officer claims reimbursement or indemnification hereunder based upon settlement of a matter, he or she shall be indemnified only if the Board (with any trustee seeking reimbursement abstaining) approves such settlement and reimbursement as being in the best interests of the Group and, if a majority of the members request it, such approval is based on an opinion of independent counsel supporting the propriety of such indemnification and reimbursement. The foregoing right of indemnification shall be in addition to and not exclusive of all other rights such trustee or officer may have. The Board shall notify all members that it has approved an indemnification payment at least ten (10) days prior to making such payment.

Article VII. Insurance

The Group shall, to the extent appropriate, carry liability insurance (including, without limitation, directors' and officers' coverage), workers' compensation insurance, if applicable, and such other insurance coverage as the Trustees may determine to be appropriate.

Article VIII. Rules of Order

The rules of the latest edition of Roberts Rules of Order shall govern the procedure of the Board except where such rules are contrary to the Articles of Incorporation, these By-Laws or the laws of the State of Michigan.

Article IX. Corporate Seal

The Group shall have a corporate seal upon which the words "Construction Code Group" shall be embossed. The seal, in the form impressed hereon is hereby adopted.

Article X. Committees

The Board, by resolution adopted by a majority of the entire Board, may from time to time designate from among its members an executive committee and such other committees, and alternate members thereof, as they deem desirable, each consisting of three (3) or more members,

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with such powers and authority (to the extent permitted by law and the Articles of the Group) as may be provided by such resolution. Each such committee shall serve at the pleasure of the Board. At all meetings of a committee, the presence of a majority of the members of the committee shall be necessary to constitute a quorum for the transaction of business, except as otherwise provided in said resolution or by these By-Laws.

Article XI. Secretary/Treasurer's Bond

The Secretary/Treasurer shall provide the Group with a bond conditioned upon the faithful performance of the duties of his or her office as Treasurer. The cost of the bond shall be paid by the Group.

Article XII. Depositories

All monies of the Group shall be deposited in a bank or banks, to be designated by the Board, and all checks or other forms of withdrawals therefrom shall be signed by a person or persons designated by resolution of the Board.

Article XIII. Budgets and Apportionment of Costs

The Board shall prepare a proposed budget for the review and approval of each municipality prior to the first day of July of each fiscal year. The proposed budget shall be based on a fee schedule designed to cover all projected expenses. Budget amendments shall be reviewed and approved bay the Board of Director. If for any reason the expenditures exceed the revenue during any fiscal year, the Group may require a contribution from all participating units of government in proportion to the number of permits issued for the unit of government which are members of the Group.

Article XIV. Conflict of Interest

No Trustee may be a party to or may be interested in any contract or transaction of this Group.

Article XV. Amendment of By-Laws

These By-Laws shall take effect upon adoption. They may be amended by unanimous agreement of all participating units of government. Any proposed amendments must be submitted to the Board of Directors for initial review and comment.

The undersigned Trustees certify that they have adopted the foregoing By-Laws of the Group. They shall become effective upon approval by the Board and filing with the appropriate agency.

CERTIFICATION

STATE OF MICHIGAN)) ss: COUNTY OF SAGINAW)

I, the undersigned, the duly qualified and acting Secretary of the Construction Code Group, Saginaw County, Michigan, do hereby certify that the foregoing is a true and complete copy of the Group's By-Laws.

IN WITNESS, I have affixed my official signature on this <u>Zwin</u> day of <u>November</u> 2011.

Charles B. Graham Secretary-Treasurer Construction Codes Group

Page 5 of 5

BUILDING OFFICIAL/INSPECTOR AND PLANS EXAMINER EMPLOYMENT AGREEMENT

THIS AGREEMENT is made this 25 th day of April, 2016 between the Construction Code Group, a public body corporate formed pursuant to 1967 PA 7 (Ex Sess), whose principal office is located at 240 W. Genesee Street, Frankenmuth, MI, (hereinafter referred to as "CCG"), and Michael W. Setzer (hereinafter referred to as 'EMPLOYEE"), an individual whose address is Birch Run, MI 48415.

WHEREAS CCG desires to employ EMPLOYEE in the capacity of Building Official/Inspector and Plans Examiner, (the "Position"), on the terms and conditions set forth herein, including Attachment A, (hereinafter referred to as the "Attachment"), which attachment is incorporated herein; and

WHEREAS, EMPLOYEE desires to perform for CCG the tasks required by the Position on the terms and conditions set forth herein;

NOW THEREFORE in consideration of the mutual covenants and agreements set forth below, the parties agree as follows:

EMPLOYEE agrees:

A1. When employed in the Position EMPLOYEE shall, other than the ten days of paid time off, (hereinafter referred to as "PTO"), referred to in paragraph B3, have no right to any fringe benefits such as a vacation, hospitalization or retirement plan.

A2. EMPLOYEE will secure and maintain the qualifications, certifications, registrations and licenses necessary to properly perform the Position and agrees to carry out the administrative and operational functions of the Position as required by law and as authorized by the Board of Directors of the CCG.

A3. EMPLOYEE shall perform the duties of the Position as set forth in the Attachment.

A4. EMPLOYEE shall serve the CCG loyally, diligently and effectively, and shall at all times exert his/her best efforts to complete the duties as herein required in a faithful manner, and will perform all of his/her duties with full and complete fidelity according to law.

A5. EMPLOYEE agrees that while employed in the Position he/she shall not engage in the installation of any building systems as a contractor or employee within the jurisdictional limits of the CCG without the prior written permission of the CCG.

A6. EMPLOYEE will provide original copies of all records pertaining to inspections and plan reviews to the CCG.

File Name: Construction Codes/CONTRACT – Setzer 2016 Page 1 of 4 A7. EMPLOYEE will serve in the Position in compliance with the rules and regulations of the CCG as adopted by the CCG, either orally or in writing, and will carry out and perform orders, directions and policies announced to EMPLOYEE by the CCG administrator. EMPLOYEE specifically understands that the CCG shall have final authority and power to direct, control and supervise the manner and time in which EMPLOYEE fulfills the requirements of the Position.

CCG agrees:

B1. CCG will furnish all information necessary for EMPLOYEE to complete his/her duties.

B2. CCG will provide filing areas and clerical assistance to EMPLOYEE during regular business hours.

B3. CCG will pay EMPLOYEE a wage determined as follows: \$15,003.00 per year (spread over 26 bi-weekly pay periods) and \$59.45 per inspection. EMPLOYEE will also be paid a flat rate of 40% of the plan review fees collected for services rendered. EMPLOYEE may have up to ten days of PTO per year. EMPLOYEE shall be paid for unused PTO after December 31st each year. Notwithstanding the language of Section C6 concerning modification of this Agreement, Employee's pay may be modified by resolution of the CCG board of directors."

B4. EMPLOYEE will be covered by a policy similar, if not identical, to a policy procured by the City of Frankenmuth, (hereinafter referred to as the "City"), which policy will defend and indemnify EMPLOYEE for lawsuits and complaints brought against EMPLOYEE for actions arising out of his/her performance of the Position.

It is mutually agreed:

C1. This Agreement shall take effect when signed by both parties.

C2. This section is intentionally left blank.

C3. EMPLOYEE'S employment in the Position is at will and may be terminated by either party at any time, for any reason or for no reason, by giving thirty days written notice to the other party.

C4. EMPLOYEE shall have no rights to unemployment insurance, severance pay, other than as required in paragraph C3, or other benefits in the event of termination of this Agreement.

C5. The provisions of this agreement shall be deemed severable, the validity or unenforceability of any one or more provisions of this Agreement shall not affect the validity and enforceability of other provisions. This Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

C6. It is understood and agreed that the terms of this Agreement are fully contained herein and EMPLOYEE'S employment is not based upon any oral promises or anything outside of the terms and conditions of this Agreement. This Agreement may only be modified by a writing signed by both parties.

File Name: Construction Codes/CONTRACT – Setzer 2016 Page 2 of 4 C7. One or more waivers of any clause by CCG shall not be construed as a waiver of any further or subsequent breach of the same or any other clause.

C8. This Agreement shall extend to and bind the parties to this Agreement. EMPLOYEE shall not assign this Agreement. CCG may assign this Agreement in which case it shall be binding on that assignee.

C9. Michigan law shall govern the right and duties of the parties to this Agreement and the interpretation of its provision.

C10. The parties to this Agreement agree that the courts of the State of Michigan shall have personal jurisdiction over the parties for all actions or disputes between them which arise out of or relate to this Agreement.

C11. Time is of the essence in the performance of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused the within agreement to be executed on their behalf by their duly authorized officers.

Approved and accepted:

CONSTRUCTION CODE GROUP

chael EMPLO

BY: John P./Deterding Secretary/Treasurer

File Name: Construction Codes/CONTRACT – Setzer 2016 Page 3 of 4

ATTACHMENT A BUILDING OFFICIAL/INSPECTOR AND PLANS EXAMINER

As Building Official/Inspector, and Plans Examiner, EMPLOYEE agrees to perform all duties and responsibilities of the Building Official/Inspector, and Plans Examiner required by the CONSTRUCTION CODE GROUP as follows:

1. Reviewing plans for proposed new residential, commercial and industrial buildings or structures, or alterations and repairs to existing buildings or structures to assure compliance with codes enforced by the Construction Code Group.

2. Corresponding verbally and in writing as necessary with design professionals, homeowners, engineers and other agencies regarding corrections or modifications to planned buildings or structures, or planned changes in existing buildings or structures.

3. Assist in calculating the cost of installation or modifications to said buildings or structures and issue permits accordingly.

4. Scheduling and conducting on-site inspections of installation, erection, alteration, repair, relocation, replacement, additions to, use or maintenance of buildings and related structures within the Construction Code Group.

5. Issuing detailed orders for correction of such buildings or structures when necessary to bring them into compliance.

6. Assisting in preparing violation notices when building and other construction codes are not met and appearing in court to testify when necessary.

7. Making final inspections when building projects are completed to determine conformity to approved plans, codes, laws and ordinances.

8. Investigating and providing aid to resolve citizen concerns regarding the installation and repair to their buildings.

9. Compiling reports to the Construction Code Group or State of Michigan authorities as required and needed.

10. Preparing various forms and reports, and maintenance of accurate records of all code permits issued, correction notices issued, inspection approvals, inspections made, dates for re-inspections and other work done according to procedures and requirements.

11. Responding to concerns and supplying accurate answers to the inquiries from professionals, contractors, and the general public who come to the office of the Construction Code Group in person, or who make contact via telephone or in writing regarding codes and ordinances as such relate to buildings.

12. Enforcing housing regulations relative to code enforcement when directed to do so.

13. Performing related duties as assigned.

File Name: Construction Codes/CONTRACT – Setzer 2016 Page 4 of 4

BACK-UP BUILDING INSPECTOR AND PLANS EXAMINER EMPLOYMENT AGREEMENT

THIS AGREEMENT is made this 26th day of March, 2014 between the Construction Code Group, a public body corporate formed pursuant to 1967 PA 7 (Ex Sess), whose principal office is located at 240 W. Genesee Street, Frankenmuth, MI, (hereinafter referred to as "CCG"), and Jeffrey M. Hugo (hereinafter referred to as 'EMPLOYEE"), an individual whose address is Essexville, MI 48732.

WHEREAS CCG desires to employ EMPLOYEE in the capacity of back-up Building Inspector and Plans Examiner, (the "Position"), on the terms and conditions set forth herein, including Attachment A, (hereinafter referred to as the "Attachment"), which attachment is incorporated herein; and

WHEREAS, EMPLOYEE desires to perform for CCG the tasks required by the Position on the terms and conditions set forth herein;

NOW THEREFORE in consideration of the mutual covenants and agreements set forth below, the parties agree as follows:

EMPLOYEE agrees:

A1. When employed in the Position EMPLOYEE shall have no right to any fringe benefits such as a vacation, hospitalization or retirement plan.

A2. EMPLOYEE will secure and maintain the qualifications, certifications, registrations and licenses necessary to properly perform the Position and agrees to carry out the administrative and operational functions of the Position as required by law and as authorized by the Board of Directors of the CCG.

A3. EMPLOYEE shall perform the duties of the Position as set forth in the Attachment.

A4. EMPLOYEE shall serve the CCG loyally, diligently and effectively, and shall at all times exert his/her best efforts to complete the duties as herein required in a faithful manner, and will perform all of his/her duties with full and complete fidelity according to law.

A5. EMPLOYEE agrees that while employed in the Position he/she shall not engage in the installation of any building systems as a contractor or employee within the jurisdictional limits of the CCG without the prior written permission of the CCG.

A6. EMPLOYEE will provide original copies of all records pertaining to inspections and plan reviews to the CCG.

A7. EMPLOYEE will serve in the Position in compliance with the rules and regulations of the CCG as adopted by the CCG, either orally or in writing, and will carry out and perform orders,

File Name: Construction Codes/CONTRACT – Hugo 2014 Page 1 of 4

directions and policies announced to EMPLOYEE by the CCG administrator. EMPLOYEE specifically understands that the CCG hall have final authority and power to direct, control and supervise the manner and time in which EMPLOYEE fulfills the requirements of the Position.

CCG agrees:

B1. CCG will furnish all information necessary for EMPLOYEE to complete his/her duties.

B2. CCG will provide filing areas and clerical assistance to EMPLOYEE during regular business hours.

B3. CCG will pay EMPLOYEE a wage determined at a rate of Forty-five and 75/100 (\$45.75). Dollars per inspection and a rate of Forty-five and 75/100 (\$45.75) Dollars per hour for plan review services rendered. EMPLOYEE will submit an itemized statement of hours worked by the 5th day of each month for all services rendered to the CCG under this contract. The CCG hereby agrees that it shall thereafter compensate EMPLOYEE through its regular CCG bi-weekly payroll. Notwithstanding the language of Section C6 concerning modification of this Agreement, Employee's pay may be modified by resolution of the CCG board of directors."

B4. EMPLOYEE will be covered by a policy similar, if not identical, to a policy procured by the City of Frankenmuth, (hereinafter referred to as the "City"), which policy will defend and indemnify EMPLOYEE for lawsuits and complaints brought against EMPLOYEE for actions arising out of his/her performance of the Position.

It is mutually agreed:

C1. This Agreement shall take effect when signed by both parties.

C2. This section is intentionally left blank.

C3. EMPLOYEE'S employment in the Position is at will and may be terminated by either party at any time, for any reason or for no reason, by giving thirty days written notice to the other party.

C4. EMPLOYEE shall have no rights to unemployment insurance, severance pay, other than as required in paragraph C3, or other benefits in the event of termination of this Agreement.

C5. The provisions of this agreement shall be deemed severable, the validity or unenforceability of any one or more provisions of this Agreement shall not affect the validity and enforceability of other provisions. This Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

C6. It is understood and agreed that the terms of this Agreement are fully contained herein and EMPLOYEE'S employment is not based upon any oral promises or anything outside of the terms and conditions of this Agreement. This Agreement may only be modified by a writing signed by both parties.

File Name: Construction Codes/CONTRACT – Hugo 2014 Page 2 of 4 C7. One or more waivers of any clause by CCG shall not be construed as a waiver of any further or subsequent breach of the same or any other clause.

C8. This Agreement shall extend to and bind the parties to this Agreement. EMPLOYEE shall not assign this Agreement. CCG may assign this Agreement in which case it shall be binding on that assignee.

C9. Michigan law shall govern the right and duties of the parties to this Agreement and the interpretation of its provision.

C10. The parties to this Agreement agree that the courts of the State of Michigan shall have personal jurisdiction over the parties for all actions or disputes between them which arise out of or relate to this Agreement.

C11. Time is of the essence in the performance of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused the within agreement to be executed on their behalf by their duly authorized officers.

Approved and accepted:

BY: Jeffrey M. Hugo

BY: Jeffrey M. Hugo EMPLOYEE CONSTRUCTION CODE GROUP

Charles B. Graham Secretary/Treasurer

File Name: Construction Codes/CONTRACT – Hugo 2014 Page 3 of 4

ATTACHMENT A BUILDING INSPECTOR AND PLANS EXAMINER

As Building Inspector, and Plans Examiner, EMPLOYEE agrees to perform all duties and responsibilities of the Building Inspector, and Plans Examiner required by the CONSTRUCTION CODE GROUP as follows:

1. Reviewing plans for proposed new residential, commercial and industrial buildings or structures, or alterations and repairs to existing buildings or structures to assure compliance with codes enforced by the Construction Code Group.

2. Corresponding verbally and in writing as necessary with design professionals, homeowners, engineers and other agencies regarding corrections or modifications to planned buildings or structures, or planned changes in existing buildings or structures.

3. Assist in calculating the cost of installation or modifications to said buildings or structures and issue permits accordingly.

4. Scheduling and conducting on-site inspections of installation, erection, alteration, repair, relocation, replacement, additions to, use or maintenance of buildings and related structures within the Construction Code Group.

5. Issuing detailed orders for correction of such buildings or structures when necessary to bring them into compliance.

6. Assisting in preparing violation notices when building and other construction codes are not met and appearing in court to testify when necessary.

7. Making final inspections when building projects are completed to determine conformity to approved plans, codes, laws and ordinances.

8. Investigating and providing aid to resolve citizen concerns regarding the installation and repair to their buildings.

9. Compiling reports to the Construction Code Group or State of Michigan authorities as required and needed.

10. Preparing various forms and reports, and maintenance of accurate records of all code permits issued, correction notices issued, inspection approvals, inspections made, dates for re-inspections and other work done according to procedures and requirements.

11. Responding to concerns and supplying accurate answers to the inquiries from professionals, contractors, and the general public who come to the office of the Construction Code Group in person, or who make contact via telephone or in writing regarding codes and ordinances as such relate to buildings.

12. Enforcing housing regulations relative to code enforcement when directed to do so.

13. Performing related duties as assigned.

File Name: Construction Codes/CONTRACT – Hugo 2014 Page 4 of 4

ELECTRICAL INSPECTOR AND PLANS EXAMINER EMPLOYMENT AGREEMENT

THIS AGREEMENT is made this 25 th day of April, 2016 between the Construction Code Group, a public body corporate formed pursuant to 1967 PA 7 (Ex Sess), whose principal office is located at 240 W. Genesee Street, Frankenmuth, MI, (hereinafter referred to as "CCG"), and Travis Cooper (hereinafter referred to as 'EMPLOYEE"), an individual whose address is Millington, MI 48746.

WHEREAS CCG desires to employ EMPLOYEE in the capacity of Electrical Inspector and Plans Examiner, (the "Position"), on the terms and conditions set forth herein, including Attachment A, (hereinafter referred to as the "Attachment"), which attachment is incorporated herein; and

WHEREAS, EMPLOYEE desires to perform for CCG the tasks required by the Position on the terms and conditions set forth herein;

NOW THEREFORE in consideration of the mutual covenants and agreements set forth below, the parties agree as follows:

EMPLOYEE agrees:

A1. When employed in the Position EMPLOYEE shall have no right to any fringe benefits such as a vacation, hospitalization or retirement plan.

A2. EMPLOYEE will secure and maintain the qualifications, certifications, registrations and licenses necessary to properly perform the Position and agrees to carry out the administrative and operational functions of the Position as required by law and as authorized by the Board of Directors of the CCG.

A3. EMPLOYEE shall perform the duties of the Position as set forth in the Attachment.

A4. EMPLOYEE shall serve the CCG loyally, diligently and effectively, and shall at all times exert his/her best efforts to complete the duties as herein required in a faithful manner, and will perform all of his/her duties with full and complete fidelity according to law.

A5. EMPLOYEE agrees that while employed in the Position he/she shall not engage in the installation of any mechanical systems as a contractor or employee within the jurisdictional limits of the CCG without the prior written permission of the CCG.

A6. EMPLOYEE will provide original copies of all records pertaining to inspections and plan reviews to the CCG.

A7. EMPLOYEE will serve in the Position in compliance with the rules and regulations of the CCG as adopted by the CCG, either orally or in writing, and will carry out and perform orders,

File Name: Construction Codes/CONTRACT – Cooper 2016 Page 1 of 4 directions and policies announced to EMPLOYEE by the CCG administrator. EMPLOYEE specifically understands that the CCG hall have final authority and power to direct, control and supervise the manner and time in which EMPLOYEE fulfills the requirements of the Position.

CCG agrees:

B1. CCG will furnish all information necessary for EMPLOYEE to complete his/her duties.

B2. CCG will provide filing areas and clerical assistance to EMPLOYEE during regular business hours.

B3. CCG will pay EMPLOYEE a wage determined at a rate of Forty-two and 00/100 (\$42.00) Dollars per inspection rendered. EMPLOYEE will also be paid a flat rate of 13.33% for electrical plan review fees collected for services rendered. EMPLOYEE will submit an itemized statement of hours worked the first Monday after each new pay period begins for all services rendered to the CCG under this contract. The CCG hereby agrees that it shall thereafter compensate EMPLOYEE through its regular CCG bi-weekly payroll. Notwithstanding the language of Section C6 concerning modification of this Agreement, Employee's pay may be modified by resolution of the CCG board of directors."

B4. EMPLOYEE will be covered by a policy similar, if not identical, to a policy procured by the City of Frankenmuth, (hereinafter referred to as the "City"), which policy will defend and indemnify EMPLOYEE for lawsuits and complaints brought against EMPLOYEE for actions arising out of his/her performance of the Position.

It is mutually agreed:

C1. This Agreement shall take effect when signed by both parties.

C2. This section is intentionally left blank.

C3. EMPLOYEE'S employment in the Position is at will and may be terminated by either party at any time, for any reason or for no reason, by giving thirty days written notice to the other party.

C4. EMPLOYEE shall have no rights to unemployment insurance, severance pay, other than as required in paragraph C3, or other benefits in the event of termination of this Agreement.

C5. The provisions of this agreement shall be deemed severable, the validity or unenforceability of any one or more provisions of this Agreement shall not affect the validity and enforceability of other provisions. This Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

C6. It is understood and agreed that the terms of this Agreement are fully contained herein and EMPLOYEE'S employment is not based upon any oral promises or anything outside of the terms and conditions of this Agreement. This Agreement may only be modified by a writing signed by both parties.

File Name: Construction Codes/CONTRACT – Cooper 2016 Page 2 of 4 C7. One or more waivers of any clause by CCG shall not be construed as a waiver of any further or subsequent breach of the same or any other clause.

C8. This Agreement shall extend to and bind the parties to this Agreement. EMPLOYEE shall not assign this Agreement. CCG may assign this Agreement in which case it shall be binding on that assignee.

C9. Michigan law shall govern the right and duties of the parties to this Agreement and the interpretation of its provision.

C10. The parties to this Agreement agree that the courts of the State of Michigan shall have personal jurisdiction over the parties for all actions or disputes between them which arise out of or relate to this Agreement.

C11. Time is of the essence in the performance of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused the within agreement to be executed on their behalf by their duly authorized officers.

Approved and accepted:

CONSTRUCTION CODE GROUP

BY: Travis Cooper EMPLOYEE

John P. Deterding Secretary/Preasurer

File Name: Construction Codes/CONTRACT – Cooper 2016 Page 3 of 4

ATTACHMENT A ELECTRICAL INSPECTOR/PLAN REVIEWER'S DUTIES

As a contract employee performing Electrical Inspector/Plan Reviewer duties, EMPLOYEE agrees to perform all duties and responsibilities of the Electrical Inspector/Plan Reviewer as required by the CCG as follows:

1. Reviewing plans for proposed new residential, commercial and industrial electrical systems, or alterations and repairs to existing electrical systems to assure compliance with electrical codes enforced by the CCG.

2. Corresponding verbally and in writing as necessary with design professionals, homeowners, engineers and other agencies regarding corrections or modifications to planned systems or planned changes in existing systems.

3. Assist in calculating the cost of installation or modifications to systems and issue permits accordingly.

4. Scheduling and conducting on-site inspections of installation, erection, alteration, repair, relocation, replacement, additions to, use or maintenance of electrical systems and related equipment within the CCG.

5. Issuing detailed orders for correction of such systems when necessary to bring them into compliance.

6. Assisting in preparing violation notices when electrical codes are not met and appearing in court to testify as the Electrical Inspector/Plan Reviewer of the CCG, if necessary.

7. Making final inspections when electrical installations are completed to determine conformity to approved plans, codes, laws and ordinances.

8. Investigating and providing aid to resolve citizen concerns regarding the installation or repair of electrical systems.

9. Compiling reports to the CCG or State of Michigan authorities as required and needed.

10. Preparing various forms and reports, and maintenance of accurate records of electrical permits issued, correction notices issued, inspection approvals, inspections made, dates for re-inspections and other work done according to procedures and requirements.

11. Responding to concerns and supplying accurate answers to the inquiries from professionals, contractors, and the general public who come to the CCG Office in person, or who make contact via telephone or in writing regarding codes and ordinances as such relate to electrical systems.

12. Enforcing Housing Regulations relative to electrical code enforcement when directed to do so.

13. Performing related duties as assigned.

BACK-UP ELECTRICAL INSPECTOR AND PLANS EXAMINER EMPLOYMENT AGREEMENT

THIS AGREEMENT is made this 25 th day of April, 2016 between the Construction Code Group, a public body corporate formed pursuant to 1967 PA 7 (Ex Sess), whose principal office is located at 240 W. Genesee Street, Frankenmuth, MI, (hereinafter referred to as "CCG"), and <u>Donald Pawlowski (hereinafter referred to as 'EMPLOYEE</u>"), an individual whose address is

WHEREAS CCG desires to employ EMPLOYEE in the capacity of Back-up Electrical Inspector and Plans Examiner, (the "Position"), on the terms and conditions set forth herein, including Attachment A, (hereinafter referred to as the "Attachment"), which attachment is incorporated herein; and

WHEREAS, EMPLOYEE desires to perform for CCG the tasks required by the Position on the terms and conditions set forth herein;

NOW THEREFORE in consideration of the mutual covenants and agreements set forth below, the parties agree as follows:

EMPLOYEE agrees:

A1. When employed in the Position EMPLOYEE shall have no right to any fringe benefits such as a vacation, hospitalization or retirement plan.

A2. EMPLOYEE will secure and maintain the qualifications, certifications, registrations and licenses necessary to properly perform the Position and agrees to carry out the administrative and operational functions of the Position as required by law and as authorized by the Board of Directors of the CCG.

A3. EMPLOYEE shall perform the duties of the Position as set forth in the Attachment.

A4. EMPLOYEE shall serve the CCG loyally, diligently and effectively, and shall at all times exert his/her best efforts to complete the duties as herein required in a faithful manner, and will perform all of his/her duties with full and complete fidelity according to law.

A5. EMPLOYEE agrees that while employed in the Position he/she shall not engage in the installation of any mechanical systems as a contractor or employee within the jurisdictional limits of the CCG without the prior written permission of the CCG.

A6. EMPLOYEE will provide original copies of all records pertaining to inspections and plan reviews to the CCG.

A7. EMPLOYEE will serve in the Position in compliance with the rules and regulations of the CCG as adopted by the CCG, either orally or in writing, and will carry out and perform orders,

File Name: Construction Codes/CONTRACT – Pawlowski 2016 Page 1 of 4 directions and policies announced to EMPLOYEE by the CCG administrator. EMPLOYEE specifically understands that the CCG hall have final authority and power to direct, control and supervise the manner and time in which EMPLOYEE fulfills the requirements of the Position.

CCG agrees:

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B1. CCG will furnish all information necessary for EMPLOYEE to complete his/her duties.

B2. CCG will provide filing areas and clerical assistance to EMPLOYEE during regular business hours.

B3. CCG will pay EMPLOYEE a wage determined at a rate of Forty-five and 75/100 (\$45.75) Dollars per inspection rendered. EMPLOYEE will also be paid a flat rate of 13.33% for electrical plan review fees collected for services rendered. EMPLOYEE will submit an itemized statement of hours worked the first Monday after each new pay period begins for all services rendered to the CCG under this contract. The CCG hereby agrees that it shall thereafter compensate EMPLOYEE through its regular CCG bi-weekly payroll. Notwithstanding the language of Section C6 concerning modification of this Agreement, Employee's pay may be modified by resolution of the CCG board of directors."

B4. EMPLOYEE will be covered by a policy similar, if not identical, to a policy procured by the City of Frankenmuth, (hereinafter referred to as the "City"), which policy will defend and indemnify EMPLOYEE for lawsuits and complaints brought against EMPLOYEE for actions arising out of his/her performance of the Position.

It is mutually agreed:

C1. This Agreement shall take effect when signed by both parties.

C2. This section is intentionally left blank.

C3. EMPLOYEE'S employment in the Position is at will and may be terminated by either party at any time, for any reason or for no reason, by giving thirty days written notice to the other party.

C4. EMPLOYEE shall have no rights to unemployment insurance, severance pay, other than as required in paragraph C3, or other benefits in the event of termination of this Agreement.

C5. The provisions of this agreement shall be deemed severable, the validity or unenforceability of any one or more provisions of this Agreement shall not affect the validity and enforceability of other provisions. This Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

C6. It is understood and agreed that the terms of this Agreement are fully contained herein and EMPLOYEE'S employment is not based upon any oral promises or anything outside of the terms and conditions of this Agreement. This Agreement may only be modified by a writing signed by both parties.

File Name: Construction Codes/CONTRACT – Pawlowski 2016 Page 2 of 4 C7. One or more waivers of any clause by CCG shall not be construed as a waiver of any further or subsequent breach of the same or any other clause.

C8. This Agreement shall extend to and bind the parties to this Agreement. EMPLOYEE shall not assign this Agreement. CCG may assign this Agreement in which case it shall be binding on that assignee.

C9. Michigan law shall govern the right and duties of the parties to this Agreement and the interpretation of its provision.

C10. The parties to this Agreement agree that the courts of the State of Michigan shall have personal jurisdiction over the parties for all actions or disputes between them which arise out of or relate to this Agreement.

C11. Time is of the essence in the performance of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused the within agreement to be executed on their behalf by their duly authorized officers.

Approved and accepted:

CONSTRUCTION CODE GROUP

Cawlorux

Y: Don Pawlowski EMPLOYEE

John P. Deterding Secretary/Treasurer

ATTACHMENT A BACK-UP ELECTRICAL INSPECTOR/PLAN REVIEWER'S DUTIES

As a contract employee performing Back-up Electrical Inspector/Plan Reviewer duties, EMPLOYEE agrees to perform all duties and responsibilities of the Electrical Inspector/Plan Reviewer as required by the CCG as follows:

1. Reviewing plans for proposed new residential, commercial and industrial electrical systems, or alterations and repairs to existing electrical systems to assure compliance with electrical codes enforced by the CCG.

2. Corresponding verbally and in writing as necessary with design professionals, homeowners, engineers and other agencies regarding corrections or modifications to planned systems or planned changes in existing systems.

3. Assist in calculating the cost of installation or modifications to systems and issue permits accordingly.

4. Scheduling and conducting on-site inspections of installation, erection, alteration, repair, relocation, replacement, additions to, use or maintenance of electrical systems and related equipment within the CCG.

5. Issuing detailed orders for correction of such systems when necessary to bring them into compliance.

6. Assisting in preparing violation notices when electrical codes are not met and appearing in court to testify as the Electrical Inspector/Plan Reviewer of the CCG, if necessary.

7. Making final inspections when electrical installations are completed to determine conformity to approved plans, codes, laws and ordinances.

8. Investigating and providing aid to resolve citizen concerns regarding the installation or repair of electrical systems.

9. Compiling reports to the CCG or State of Michigan authorities as required and needed.

10. Preparing various forms and reports, and maintenance of accurate records of electrical permits issued, correction notices issued, inspection approvals, inspections made, dates for re-inspections and other work done according to procedures and requirements.

11. Responding to concerns and supplying accurate answers to the inquiries from professionals, contractors, and the general public who come to the CCG Office in person, or who make contact via telephone or in writing regarding codes and ordinances as such relate to electrical systems.

12. Enforcing Housing Regulations relative to electrical code enforcement when directed to do so.

13. Performing related duties as assigned.

File Name: Construction Codes/CONTRACT – Pawlowski 2016 Page 4 of 4

MECHANICAL & PLUMBING INSPECTOR AND PLANS EXAMINER EMPLOYMENT AGREEMENT

THIS AGREEMENT is made this 25 th day of April, 2016 between the Construction Code Group, a public body corporate formed pursuant to 1967 PA 7 (Ex Sess), whose principal office is located at 240 W. Genesee Street, Frankenmuth, MI, (hereinafter referred to as "CCG"), and Merle E. West II (hereinafter referred to as 'EMPLOYEE"), an individual whose address is Vassar, MI 48768.

WHEREAS CCG desires to employ EMPLOYEE in the capacity of Mechanical & Plumbing Inspector and Plans Examiner, (the "Position"), on the terms and conditions set forth herein, including Attachment A, (hereinafter referred to as the "Attachment"), which attachment is incorporated herein; and

WHEREAS, EMPLOYEE desires to perform for CCG the tasks required by the Position on the terms and conditions set forth herein;

NOW THEREFORE in consideration of the mutual covenants and agreements set forth below, the parties agree as follows:

EMPLOYEE agrees:

A1. When employed in the Position EMPLOYEE shall have no right to any fringe benefits such as a vacation, hospitalization or retirement plan.

A2. EMPLOYEE will secure and maintain the qualifications, certifications, registrations and licenses necessary to properly perform the Position and agrees to carry out the administrative and operational functions of the Position as required by law and as authorized by the Board of Directors of the CCG.

A3. EMPLOYEE shall perform the duties of the Position as set forth in the Attachment.

A4. EMPLOYEE shall serve the CCG loyally, diligently and effectively, and shall at all times exert his/her best efforts to complete the duties as herein required in a faithful manner, and will perform all of his/her duties with full and complete fidelity according to law.

A5. EMPLOYEE agrees that while employed in the Position he/she shall not engage in the installation of any mechanical systems as a contractor or employee within the jurisdictional limits of the CCG without the prior written permission of the CCG.

A6. EMPLOYEE will provide original copies of all records pertaining to inspections and plan reviews to the CCG.

A7. EMPLOYEE will serve in the Position in compliance with the rules and regulations of the CCG as adopted by the CCG, either orally or in writing, and will carry out and perform orders,

File Name: Construction Codes/CONTRACT – West 2016 Page 1 of 4 directions and policies announced to EMPLOYEE by the CCG administrator. EMPLOYEE specifically understands that the CCG hall have final authority and power to direct, control and supervise the manner and time in which EMPLOYEE fulfills the requirements of the Position.

CCG agrees:

B1. CCG will furnish all information necessary for EMPLOYEE to complete his/her duties.

B2. CCG will provide filing areas and clerical assistance to EMPLOYEE during regular business hours.

B3. CCG will pay EMPLOYEE a wage determined at a rate of Forty-seven and 70/100 (\$47.70) Dollars per inspection rendered. EMPLOYEE will also be paid a flat rate of 13.33% for mechanical and 13.33% for plumbing plan review fees collected for services rendered. EMPLOYEE will submit an itemized statement of hours worked the first Monday after each new pay period begins for all services rendered to the CCG under this contract. The CCG hereby agrees that it shall thereafter compensate EMPLOYEE through its regular CCG bi-weekly payroll. Notwithstanding the language of Section C6 concerning modification of this Agreement, Employee's pay may be modified by resolution of the CCG board of directors."

B4. EMPLOYEE will be covered by a policy similar, if not identical, to a policy procured by the City of Frankenmuth, (hereinafter referred to as the "City"), which policy will defend and indemnify EMPLOYEE for lawsuits and complaints brought against EMPLOYEE for actions arising out of his/her performance of the Position.

It is mutually agreed:

C1. This Agreement shall take effect when signed by both parties.

C2. This section is intentionally left blank.

C3. EMPLOYEE'S employment in the Position is at will and may be terminated by either party at any time, for any reason or for no reason, by giving thirty days written notice to the other party.

C4. EMPLOYEE shall have no rights to unemployment insurance, severance pay, other than as required in paragraph C3, or other benefits in the event of termination of this Agreement.

C5. The provisions of this agreement shall be deemed severable, the validity or unenforceability of any one or more provisions of this Agreement shall not affect the validity and enforceability of other provisions. This Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted.

C6. It is understood and agreed that the terms of this Agreement are fully contained herein and EMPLOYEE'S employment is not based upon any oral promises or anything outside of the terms and conditions of this Agreement. This Agreement may only be modified by a writing signed by both parties.

File Name: Construction Codes/CONTRACT – West 2016 Page 2 of 4 C7. One or more waivers of any clause by CCG shall not be construed as a waiver of any further or subsequent breach of the same or any other clause.

C8. This Agreement shall extend to and bind the parties to this Agreement. EMPLOYEE shall not assign this Agreement. CCG may assign this Agreement in which case it shall be binding on that assignee.

C9. Michigan law shall govern the right and duties of the parties to this Agreement and the interpretation of its provision.

C10. The parties to this Agreement agree that the courts of the State of Michigan shall have personal jurisdiction over the parties for all actions or disputes between them which arise out of or relate to this Agreement.

C11. Time is of the essence in the performance of this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused the within agreement to be executed on their behalf by their duly authorized officers.

Approved and accepted:

BY:

Y: Merle E. West II EMPLOYEE

CONSTRUCTION CODE GROUP

BY: John P(Deterding Secretary/Treasurer

File Name: Construction Codes/CONTRACT – West 2016 Page 3 of 4

ATTACHMENT A

MECHANICAL & PLUMBING INSPECTOR & PLAN REVIEWER'S DUTIES

As part-time Mechanical & Plumbing Inspector, EMPLOYEE agrees to perform all duties and responsibilities of the Mechanical & Plumbing Inspector and Plan Reviewer, as it specifically pertains to fire suppression systems and back-up to the regular Mechanical & Plumbing Inspector, as required by the CCG as follows:

1. Reviewing plans for proposed new residential, commercial and industrial mechanical systems, or alterations and repairs to existing mechanical & plumbing systems to assure compliance with mechanical & plumbing codes enforced by the CCG.

2. Corresponding verbally and in writing as necessary with design professionals, homeowners, engineers and other agencies regarding corrections or modifications to planned systems or planned changes in existing systems.

3. Scheduling and conducting on-site inspections of installation, erection, alteration, repair, relocation, replacement, additions to, use or maintenance of mechanical & plumbing systems and related equipment within the CCG.

4. Issuing detailed orders for correction of such systems when necessary to bring them into compliance.

5. Assisting in preparing violation notices when mechanical and plumbing codes are not met, and appearing in court to testify as the Mechanical & Plumbing Inspector of the CCG.

6. Making final inspections when mechanical and plumbing installations are completed to determine conformity to approved plans, codes, laws and ordinances.

7. Investigating and providing aid to resolve citizen concerns regarding the installation or repair of mechanical systems.

8. Compiling reports to the CCG or State of Michigan authorities as required and needed.

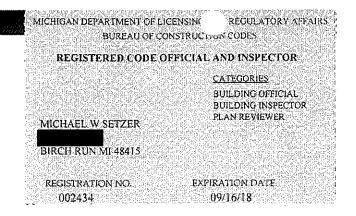
9. Preparing various forms and reports, and maintenance of accurate records of mechanical & plumbing permits issued, specifically pertaining to fire suppression systems, correction notices issued, inspection approvals, inspections made, dates for re-inspections and other work done according to procedures and requirements.

10. Responding to concerns and supplying accurate answers to the inquiries from professionals, contractors, and the general public who come to the CCG Office in person, or who make contact via telephone or in writing regarding codes and ordinances as such relate to mechanical & plumbing systems.

11. Enforcing Housing Regulations relative to mechanical & plumbing code enforcement when directed to do so.

12. Performing related duties as assigned.

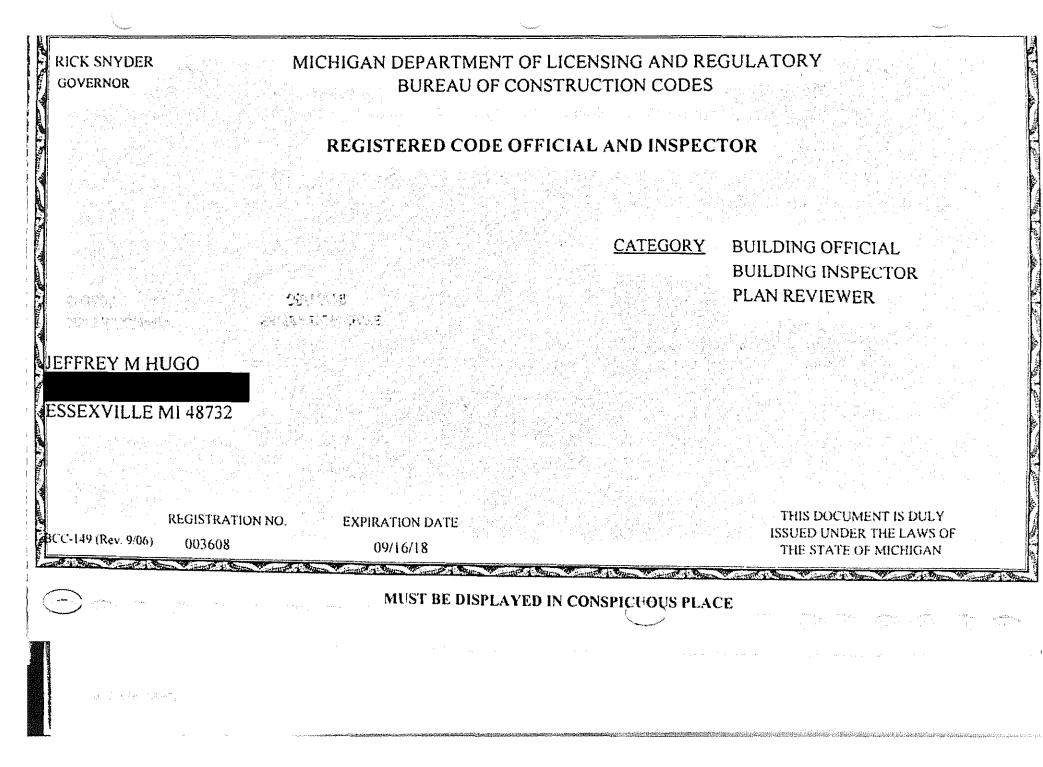
File Name: Construction Codes/CONTRACT – West 2016 Page 4 of 4

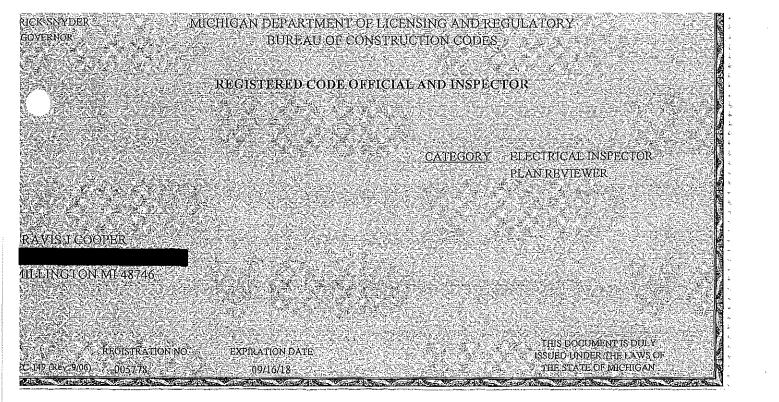


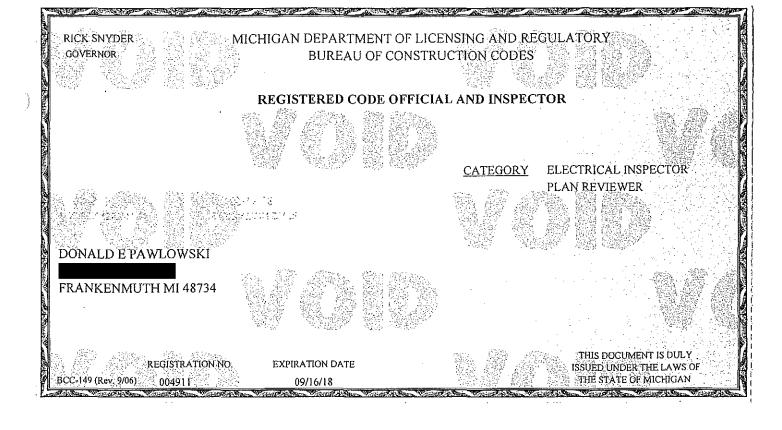
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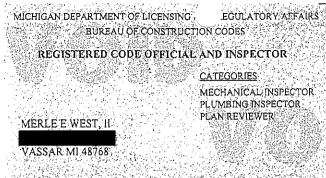






MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES REGISTERED CODE OFFICIAL AND INSPECTOR <u>CATEGORIES</u> ELECTRICAL INSPECTOR PLAN REVIEWER DONALD E PAWLOWSKI FRANKENMUTH MI 48734 REGISTRATION NO. EXPIRATION DATE 004911

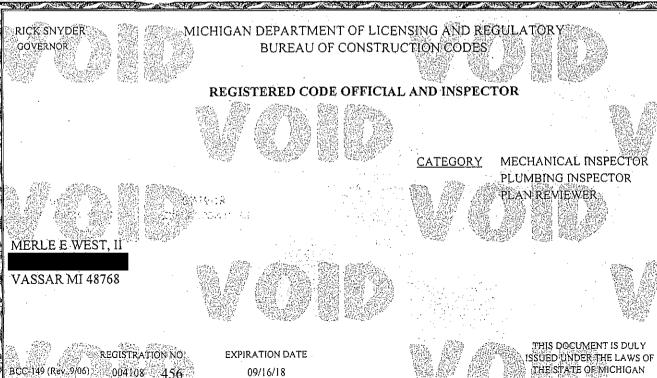
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REGISTRATION NO: EXPIRATION DATE 004108

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BUILDING PERMIT APPLICATION

Sound?

Construction Code Group Blumfield Township Frankenmuth City Frankenmuth Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Phone: (989) 652-3430, x113 Fax: (989) 652-3451 www.frankenmuthcity.com

> Authority: 1972 PA 230. Penalty: No Permit Issued. Completion: Mandatory to obtain permit.

Applicant to Complete All Items in Sections I, II, III, IV, V, VI, VII & VIII. Note: Separate Permit Applications Must Be Completed for Electrical, Mechanical and Plumbing Work.

I. Project Information	n					
Name of Project				City/Townsl		one): []Blumfield Twp. []Frankenmuth Twp.
Street Address & Job L	ocation (Street N	No. & Nan	ae)		City, State	e, Zip
Between	an	nd		Date		
II. Identification						
A. OWNER OR LE	SSEE					
Name			Address			
City	St	tate	Zip	Telephone	Number	
B. ARCHITECT OF	R ENGINEER		I			
Name			Address			
City	St	tate	Zip	Telephone	Number	
License Number			<u></u>	Expiration Date		
C. CONTRACTOR	<u> </u>			.1		
Name			Address			
City	St	tate	Zip	Telephone	Number	
Builder's License Num	ber			Expiration I	Date	<u> </u>
Federal Employer ID Number (or	reason for exemption)			MESC Employer	No. (or reason i	for exemption)
Worker's Compensation Insurance	e Carrier (or reason for e	exemption)				
III. Type of Improver		view				
A. TYPE OF IMPR					0 h	
[] New Building	[]Alteration		[]Demolition	[]Foundation	-	[]Relocation
[]Addition B. PLAN REVIEW	[]Repair		[]Premanufacture	[]Special In	spection	[]Other
		ation for P	lan Examination and the	fee hefore a r	permit can l	he issued except as
1	÷ -		& repair work determin	-		
	-		pes and shall be prepared	•	-	
			PA 299 & shall bear that	•		-

IV. Proposed Use of Building/Setba	icks					
A. RESIDENTIAL						
[]One Family		[]Hotel, Mc	tel - No. of U	Jnits	[]	Detached Garage
[]Two or more family - No. of Units		[]Attached	Garage		[]Other	
B. NON-RESIDENTIAL						
[]Amusement		[]Service St	ation			Library, Educationa
[]Church, Religious	[]Hospital, Institutional				Store, Mercantile	
[]Industrial	[]Office, Bank, Professional			[]	Tanks, Towers	
[]Parking Garage		[]Public Uti				Other
Describe in detail the proposed constru-	uction and u		lding. If use	of building		
C. SETBACKS Front		Side (1)		Side (2)	R	ear
V. Selected Characteristics of Build A. PRINCIPAL TYPE OF FRAM						
	IWood fran		[]Structural	Steel	[]Reinforced S	Steel []Other
B. PRINCIPAL TYPE OF HEAT			Поплеттат	51661	IJKennorceu	
	[]Oil		[]Electricity		[]Coal	[]Other
C. TYPE OF SEWAGE DISPOSA		- <u></u>	Theorienty			
	Septic Sys	tem				
D. TYPE OF WATER SUPPLY	<u>100p100j0</u>					····
	IPrivate We	ell or Cisterr	<u> </u>		<u></u>	
E. TYPE OF MECHANICAL	L.I		· · · · · · · · · · · · · · · · · · ·			
Will there be air conditioning? []Yes.	[]No.	·····	Will there b	e fire suppre	ssion? []Yes.	[]No.
F. DIMENSIONS/DATA	<u> </u>					
Number of Stories		······	Floor Area	Existing	Alterations	New
Use Group			Basement			
Construction Type			1st			
No. of Occupants			2nd			
-		•	3rd/above			
G. NUMBER OF OFF-STREET H	PARKING	SPACES				
Outdoors	Enclosed			Other		
VI. Applicant Information		1 . 1	1'11	- 41-1		
Applicant is responsible for the payme	ent of all fee	s and charge	s applicable t	o mis applic	cation and must	provide the
following information.		Address				<u> </u>
Name		Address				
City	State	Zip		Telephone	Number	
Federal I.D. or Social Security Number				····		
I hereby certify that the proposed work	c is authoriz	ed by the ow	mer of record	and that I h	ave been author	rized by the
owner to make this application as his/l	ner authorize	ed agent, and	l we agree to	conform to	all applicable la	ws of the State
of Michigan. All information submitte						
Section 23a of the state construction c		-			_	son from
conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a						
residential building or a residential str	ucture. Viol	lators of Sec	tion 23a are s	subject to civ	vil fines.	
Signature of Applicant					Date	

"Number"

|--|

[]Check here if additional plans/prints submitted.

" and they

-

North

Indicate front, side and rear setbacks. Indicate North arrow in box.

.

VIII. Calculation of Permit Cost.

The total cost of the improvement provides the basis for the fee schedules. The cost of the improvement will be based on the latest version of the ICC's Building Valuation Data Table and will be calculated for you at the time you submit this application. In addition, the applicant may be required to provide a copy of a signed contract to verify the cost of the project. Pre-manufactured unit fees are based on 50% of the normal on-site construction permit fees.

When submittal documents are required by Section 107 of the MI Building Code (2009 Edition), a plan review fee shall be paid at the time of submitting the said documents for plan review. Said plan review fee shall be fifty percent (50%) of the building permit fee as shown below. The plan review fees specified in this section are separate fees from the permit fees specified in Section 109 of said code and are in addition to the permit fees. When submittal documents are incomplete or changed so as to require additional plan review or when the project involves deferred submittal items as defined in Section 107 of said code, the Building Official has the authority to charge a \$65 per hour fee (or the actual cost plus a 10% administration fee if outside professional assistance is necessary) for plan review submittals which exceed the 1st revision per trade.

Contractor Registration Fee.....\$15.00

The below listed fee schedule can be used for remodels/alterations, subject to approval by the building official.Up to \$1,000.........\$ 75.00\$1,001-\$10,000.......\$ 75.00 base fee plus \$7.00 per \$1,000 of construction\$10,001-\$50,000......\$138.00 base fee plus \$6.00 per \$1,000 of construction\$50,001 and above......\$378.00 base fee plus \$5.00 per \$1,000 of constructionAdditional inspection(s)/Re-inspections or Administartive Fees are \$75 each (per hour minimum of one (1) hour.

Building Permit Fee Attached \$	Cost of Construction	\$
Make Checks Payable to "City of Frankenmuth"		

IX. Local Governmental Agency to Complete	This Section					
Env	vironmental C	ontrol Approv	/als			
	Required?	Approved	Date	Number	By	
A. Zoning	[]Yes []No					
B. Saginaw County Road Comm./MDOT	[]Yes []No					
C. Soil Erosion	[]Yes []No					
D. Flood Zone	[]Yes []No					
E. Water Supply/Well	[]Yes []No					
F. Sewer/Septic System	[]Yes []No					
G. Zoning Board of Appeals Variance Granted	[]Yes []No					
H. Historic Preservation District Approval	[]Yes []No					
I. Other	[]Yes []No					

X. Validation - For Departmental Use Only		
Use Group	Base Fee	
Type of Construction	No. of Inspections	
Square Feet	Computed Cost \$	
Approved By	Title	Date

File Name: Phil's Excel Files/2012 CCG Permit Applications (12/11)

ELECTRICAL PERMIT APPLICATION

Construction Code Group Blumfield Township Frankenmuth City Frankenmuth Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Phone: (989) 652-3430, x113 Fax: (989) 652-3451 www.frankenmuthcity.com

I. Job Location		Authority: 1972 PA 230. Penalty: No Permit Issued. Completion: Mandatory to obtain permit.	
Name of Owner/Agent	Owner's Telephone/Cell No.		
		[]Yes []No []Not Required	
Street Address & Job Location (Street No. & name)		City/Township (check one): [Blumfield Twp.	
		[]Frankenmuth City []Frankenmuth Twp.	

II. Contractor/Homeowner Information

[]Contractor	Name		State License No.	Expiration
[]Homeowner				
Address (Street No	. & Name)			
City		State		Zip
Telephone/Cell No	<u> </u>		Federal Employer ID Number	(or reason for exemption)
()	-			·
Worker's Compensation Ins	urance Carrier (or reason for exemptio		MESC Employer No. (or reaso	on for exemption)

III. Type of Job

[] Single Family	[]New	[]Service Only	[]Other	
[]Other	[]Alteration	[]Special Inspection	[]Premanufactured	

IV. Plan Review Required

Plans must be submitted with an Application for Plan Examination and the appropriate fee before a permit can be issued, except as listed below. Plans are not required for the following:

1. When the electric system rating does not exceed 400 amps and the building is not over 3,500 square feet in area.

2. Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

If work being performed is described above, check box below "Plans Not Required".

What is the rating of the service or feeder in ampere?

What is the building size in square footage?

Plans are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear that architect's or engineer's seal and signature.

[]Plans Not Required

V. Applicant Signature

Section 23a of the state construction code act of 1972, 1972 PA 230, MCL 125.1523A, prol	hibits a person from			
conspiring to circumvent the licensing requirements of this state relating to persons who are	to perform work on a			
esidential building or a residential structure. Violators of Section 23a are subject to civil fines.				
Simetra of Linear and Haman and Alaman and the start of distance of the start of th	Date			

Signature of Licensee or Homeowner (Homeowner signature indicates compliance with Section VI.)

Date

VI. Homeowner Affidavit

I hereby certify the electrical work described on this permit application shall be installed by myself in my home in which I am living or about to occupy. All work shall be installed in accordance with the State Electrical Code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Electrical Inspector. I will cooperate with the Electrical Inspector and assume the responsibility to arrange for necessary inspections. VII. Fee Chart. Enter the number of items being installed, multiply by the unit price and total for fee. A separate permit is required for each unit of a multiple dwelling when such unit is served by a separate entrance. The base permit fees include only ONE final inspection. If additional inspections are necessary, add that cost in line 22 below, per inspection.

	FEE	#/ITEMS	TOTAL
Contractor's Registration Fee	\$15.00	1	
1. APPLICATION FEE (Non-refundable)	\$30.00	1	\$30.00
2. Circuits, each	\$4.00		
3. Control wiring	\$50.00		
4. Dishwasher	\$7.00		
5. Disposal/Garbage grinder	\$7.00		
6. Dryer	\$7.00		
7. Feeder, Bus Ducts, etc per 50 feet	\$7.00		
8. Fire alarm (a) up to 10 devices	\$55.00		
(b) greater than devices/station (each)	\$7.00		
9. Fixtures (per 25 and/or fraction thereof)	\$7.00		
10. Furnace, Unit Heater	\$7.00		
11. Heating Unit (electrical baseboard)	\$7.00		
12. Mobile or Modular Home	\$25.00		
13. Power Outlet, ea. (220 volt outlets other than dryers and ranges)	\$8.00		
14. Range	\$7.00		
15. Rated Equipment - including air conditioning			
(a) Up to 20 KVA or hp	\$8.00		
(b) 21-50 KVA or hp	\$12.00		
(c) 51 KVA or hp or over	\$18.00		·
16. Service (a) Temporary	\$15.00		
(b) Up to 200 amp	\$15.00		
(c) 201 amp to 600 amp	\$25.00		
(d) 601 amp to 800 amp	\$30.00		
(e) Over 800 amp	\$35.00		
Energy Request #			
17. Sign	\$10.00		
18. Sump Pump	\$7.00		
19. Swimming Pool	\$25.00		
20. Unit Heater	\$7.00		
21. Water Heater	\$7.00		
22. Additional/Re-inspection/Corrective Inspection, per inspection	\$45.00		
23. FINAL INSPECTION (includes only one final)	\$45.00	1	\$45.00
24. Plan Review - Hourly - one hour minimum	\$65.00		
MAKE CHECKS PAYABLE TO "CITY OF FRANKENMUTH"	Total		

VIII. INSTRUCTIONS FOR COMPLETING APPLICATION

General: Electrical work shall not be started until the application for permit has been filed with the Construction Code Group. All installations shall be installed in conformance with the State Electrical Code. No work shall be concealed until it has been inspected. When ready for an inspection, call the inspector providing as much advanced notice as possible. The inspector will need the job location and permit number.

EXPIRATION OF PERMIT:

A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing work. A PERMIT WILL BE CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED.

File Name: Phil's Excel Files/2013 CCG Permit Applications (03/13)

MECHANICAL PERMIT APPLICATION Construction Code Group Blumfield Township Frankenmuth City Frankenmuth Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Phone: (989) 652-3430, x113 Fax: (989) 652-3451 www.frankenmuthcity.com

		Authority: 1972 PA 230. Penalty: No Permit Issued.	
I. Job Location		Completion: Mandatory to obtain permit.	
Name of Owner/Agent Owner's Telephone/Cell No.		Has a building permit been obtained?	
		[]Yes []No []Not Required	
Street Address & Job Location (Street No. & name)		City/Township (check one): [Blumfield Twp.	
		[]Frankenmuth City []Frankenmuth Twp.	

II. Contractor/Homeowner Information

[]Contractor	Name		State License	e No. Expiration
[]Homeowner				
Address (Street No.	& Name)			
City		State		Zip
Telephone/Cell No.			Federal Employer	r ID Number (or reason for exemption)
()				
Worker's Compensation Insu	rance Carrier (or reason for exemption	i)	MESC Employer 1	No. (or reason for exemption)

III. Type of Job

[] Single Family	[]New	[]Service Only	[]Other	
[]Other	[]Alteration	[]Special Inspection	[]Premanufactured	

IV. Plan Review Required

Plans must be submitted with an Application for Plan Examination and the appropriate fee before a permit can be issued, except as listed below. Plans are not required for the following:

- 1. One- and two-family dwellings when the total building heating/cooling system input rating is 375,000 Btu's or less.
- 2. Alterations and repair work determined by the mechanical official to be of a minor nature.
- 3. Business, mercantile, and storage buildings having HVAC equipment only, with one fire area and not more than 3,500 square feet.
- 4. Work completed by a governmental subdivision or state agency costing less than \$15,000.00

If work being performed is described above, check box below "Plans Not Required".

What is the building size in square footage?

What is the input rating of the heating system in this building?

Plans are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear that architect's or engineer's seal and signature.

[]Plans Not Required

V. Applicant Signature

Section 23a of the state construction code act of 1972, 1972 PA 230, MCL 125.1	523A, prohibits a person from			
conspiring to circumvent the licensing requirements of this state relating to perso	ns who are to perform work on a			
residential building or a residential structure. Violators of Section 23a are subject to civil fines.				
Signature of Licensee or Homeowner (Homeowner signature indicates compliance with Section VI.	Date			

The LIVING MILLING ALLIGATION

I hereby certify the mechanical work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the State Mechanical Code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Mechanical Inspector. I will cooperate with the Mechanical Inspector and assume the responsibility to arrange for necessary inspections.

VII. Fee Chart. Enter the number of items being installed, multiply by the unit price and total for fee. A separate permit is required for each unit of a multiple dwelling when such unit is served by a separate entrance. The base permit fees include only ONE final inspection. If an additional inspection(s) is necessary, add that cost to line 24 below, per inspection.

	FEE	#/ITEMS	TOTAL
Contractor's Registration Fee	\$15.00	1	
1. APPLICATION FEE (Non-refundable)	\$30.00	1	\$30.00
2. In-floor Heating - includes piping	\$35.00		
3. Furnace - includes duct and piping	\$25.00		
4. Gas/Oil Burning Equipment	\$40.00		
5. Residential Boiler - boilder installer license required	\$40.00		
6. Water Heater	\$7.00		
7. Flue/Vent Damper	\$7.00		
8. Decorative Appliance/gas log/pre-manufactured fireplace	\$25.00		
9. Gas piping - NEW INSTALLATION - each opening (see #16 below for add'l.)	\$4.00		
10. A/C - including split system	\$30.00		
11. Chimney - factory built installed separately	\$25.00		
12. Bath/Kitchen Exhaust - each	\$7.00		
13. Dryer	\$7.00		
14. LP Tank Hook-up - Flat rate - No Application Fee Due	\$35.00		
15. Humidifiers	\$6.00		
16. Gas Piping/Process Piping - minimum \$25.00	.05/ft.		
17. Duct - minimum \$25.00	.10/ft.		
18. Air Handler - under 10,000 CFM	\$22.00		
19. Air Handler - over 10,000 CFM	\$60.00		•
20. Miscellaneous Items:	\$15.00		
Heat Recovery Units, V.A.V. Boxes, Unit Heaters, Unit Ventilators,			
InfraRed Heaters, Wall Heater, Radiant Heater, Supplemental Heating Device,			
Pool Heater (includes piping & vent)			
21. Miscellaneous Items:	\$35.00		
Refrigeration Split System, Hoods with Suppression System,			
Make-up air Louver, Evaporation Cooler			
22. Fire Suppression - \$80.00 plus	.80/head		
23. Heat Pump	\$30.00		
24. Additional Inspection/Re-inspection/Corrective Inspection, per inspection	\$45.00		
25. FINAL INSPECTION	\$45.00	1	\$45.00
26. Plan Review - hourly - minimum one hour	\$65.00		
MAKE CHECKS PAYABLE TO "CITY OF FRANKENMUTH"	Total		

VIII. INSTRUCTIONS FOR COMPLETING APPLICATION

General: Mechanical work shall not be started until the application for permit has been filed with the Construction Code Group. All installations shall be installed in conformance with the State Mechanical Code. No work shall be concealed until it has been inspected. When ready for an inspection, call the inspector providing as much advanced notice as possible. The inspector will need the job location and permit number.

EXPIRATION OF PERMIT:

A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing work. A PERMIT WILL BE CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED.

File Name: Phil's Excel Files/2013 CCG Permit Applications (03/13)

PLUMBING PERMIT APPLICATION

Construction Code Group Blumfield Township Frankenmuth City Frankenmuth Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Phone: (989) 652-3430, x113 Fax: (989) 652-3451 www.frankenmuthcity.com

		Authority: 1972 PA 230. Penalty: No Permit Issued.
I. Job Location		Completion: Mandatory to obtain permit.
Name of Owner/Agent	Owner's Telephone/Cell No.	Has a building permit been obtained?
		[]Yes []No []Not Required
Street Address & Job Location	1 (Street No. & Name)	City/Township (check one): []Blumfield Twp.
		[]Frankenmuth City []Frankenmuth Twp.

II. Contractor/Homeowner Information

[Contractor	Master Plumber	Name of Plumbing Contractor or Homeowner			Constractor Licens	se Number	Expiration Date
Homeowner	[]Water Treatment Installer						
Address (Street	No. & Name)		City	_	State		Zîp
Telephone/ ()	Cell No.			Federal Employe	r ID Number (or rea	ason for exemption	1)
Worker's Compe	ensation Insurance Carrier (or reason	for exemption)		MESC Employer	No. (or reason for	exemption)	
Name of Master Plumber				Master License N	ło.	Expiration Date	
Business/Brauch	Address		City	······································	State		Zip

III. Type of Job

[] Single Family	[]New	[]Sewer Only	[]Water Service Only	[]Other
[]Other	[]Alteration	[]Special Inspection	[]Premanufactured	

IV. Plan Review Required

Plans must be submitted with an Application for Plan Examination and the appropriate fee before a permit can be issued, except as listed below. Plans are not required for the following:

1. One- and two-family dwelling containing not more than 3,500 square feet of building area.

2. Alterations and repair work determined by the plumbing official to be of a minor nature.

3. Buildings with a required plumbing fixture count less than 12.

4. Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

If work being performed is described above, check box below "Plans Not Required."

<u>Plans are required</u> for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear that architect's or engineer's seal and signature.

[]Plans Not Required

V. Applicant Signature

Section 23a of the state construction code act of 1972, 1972 PA 230, MCL 125.1523A, prohibits a pe	rson from
conspiring to circumvent the licensing requirements of this state relating to persons who are to perform	n work on a
residential building or a residential structure. Violators of Section 23a are subject to civil fines.	
Signature of Contractor, Plumber, Water Treatment Installer, or Homeowner (Homeowner indicates compliance with Section VI.)	Date

VI. Homeowner Affidavit

I hereby certify the plumbing work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the State Plumbing Code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Plumbing Inspector. I will cooperate with the Plumbing Inspector and assume the responsibility to arrange for necessary inspections.

VII. Clarification

" AND IN THE

ΓT	EM #14 - SPECIAL FIXTURES	SINCLUDE:		
	Autopsy	Drinking Fountain	Ice Making Machine	Water connected to any:
	Bed Pan Washer	Embalming Table	Plaster Trap	Beverage Dispenser
	Bidet	Emergency Eye Wash	Refrigerator	Heating System
	Condensate Drain	Emergency Shower	Roof Drain	Make-up Water Tank
	Cuspidor	Grease Trap	Starch Trap	Sterilizer
0	R ANY OTHER FIXTURE, DR.	AIN, OR WATER CONNI	ECTED APPLIANCE NO	OT SPECIFICALLY LISTED

VII. Fee Chart. Enter the number of items being installed, multiply by the unit price and total for fee. A separate permit is required for each unit of a multiple dwelling when such unit is served by a separate entrance. The base permit fees include only ONE final inspection. If an additional inspection(s) is necessary, add that cost to line 23 below, per inspection.

	FEE	#/ITEMS	TOTAL
Contractor's Registration Fee	\$15.00		
1. APPLICATION FEE (Non-refundable)	\$30.00	1	\$30.00
2. Bathtub/Hot Tub/Spa	\$7.00		
3. Dishwasher	\$7.00		
4. Floor Drain	\$7.00		
5. Garbage Grinder	\$7.00		
6. Interceptor/Ejector	\$7.00		
7. Laundry Tray	\$7.00		
8. Lavatory	\$7.00		
9. Lawn Sprinkler - including water piping & backflow preventer FLAT FEE	\$75.00		
10. Mobile or Modular Home	\$25.00		
11. Sewer	\$7.00		
12. Shower	\$7.00		
13. Sink	\$7.00		
14. Special Fixture (specify) - See Section VII above.	\$7.00		
15. Stacks	\$7.00		
16. Standpipe	\$7.00		
17. Sump	\$7.00		
18. Urinal	\$7.00		
19. Water Distribution System	\$7.00		
20. Water Closet	\$7.00		
21. Water Heater	\$7.00		
22. Water Piping	\$10.00		
23. Additional Inspection/Re-inspection/Corrective Inspection, per inspection	\$45.00		
24. FINAL INSPECTION	\$45.00	1	\$45.00
25. Plan Review - hourly - one hour minimum	\$65.00		
MAKE CHECKS PAYABLE TO "CITY OF FRANKENMUTH"	Total		

VIII. INSTRUCTIONS FOR COMPLETING APPLICATION

General: Plumbing work shall not be started until the application for permit has been filed with the Construction Code Group. All installations shall be installed in conformance with the State Plumbing Code. No work shall be concealed until it has been inspected. When ready for an inspection, call the inspector providing as much advanced notice as possible. The inspector will need the job location and permit number.

EXPIRATION OF PERMIT:

A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing work. A PERMIT WILL BE CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED.

File Name: Phil's Excel Files/2013 CCG Permit Applications (03/13)

	Building	Pern	nit No. PB1	50056
CONSTRUCTION CODE GROUP Phone: (989) 652-3430 x113	240 W. GENESSEE STREET Fax: (989) 652-3451	FRANKEN	FRANKENMUTH, MI 48734	
lssued: 08/05/2015 Expires: 02/01/2016	Please call (989) 652-3430 x 113 for an inspection 24 hours in advance	Const. value: Zoning: Sec. No.	155,000.00	
APPLICANT	LOCATION	<u></u>	· · ·	
Elite Construction Company 184 N Venner Rd Midland MI 48640 Phone: (989) 837 0686 Fax:	12091 E Tusco 03-11-6-25-21 Plat/Sub:	\$	хороло. У С.	
OWNER LAIL, DONNA FRANKENMUTH MI 48734	OCCUPANT	4 UTH MI 48734		
Phone: Fax:	Phone: Fax:			,

Work Description: Single Family / New Home Stipulations:

	•	
sumait.	160.00	

Permit Item	Work Type	Fee Basis	Item Total
01 Contractor's Registration Fee	STANDARD ITEM	1.00	15.00
Zoning Fee	Standard Item	1.00	43.00
03 New Construction	Standard Item	1.00	878.00

Michael Setzer/013

Fee Total: \$936.00 \$936.00 Amount Paid: **Balance Due:** \$0.00

MINIMUM OF SEVEN INSPECTIONS REQUIRED FOR ALL CONSTRUCTION WORK

1. FOOTINGS - (Prior to placement of concrete)

2. POURED WALL REINFORCEMENT INSPECTION - (Prior to placing concrete in forms)

3. FOUNDATION - (Prior to backfilling)

4. EXTERIOR WALL WEATHER RESISTIVE SHEATHING PAPER/FLASHING - (Prior to installing exterior walt coverings)

5. ROUGH FRAMING INSPECTION - (Prior to installing insulation) 6. MICHIGAN 2009 ENERGY CODE - (Prior to dry-walling)

7. FINAL INSPECTION - (Prior to occupancy of the building)

l agree this permit is only for the work described, and does not grant permission for additional or related work which requires separate permits. I understand that this permit will expire, and become null and void if work is not started within 180 days, or if work is suspended or abandoned for a period of 180 days anytime after work has commenced; and that I am responsible for assuring all required inspections are requested in conformance with the applicable code. I hereby certify that the proposed work is authorized by the owner, and that I am authorized by the owner to make this application as the authorized agent. I agree to conform to all applicable laws of the State of Michigan and the local jurisdiction. All information on the permit application is accurate to the best of my knowlegde.

Payment of permit fee constitutes acceptance of the above terms. CK # 10702 S 136 %

POST THIS CARD SO IT IS VISIBLE FROM STREET

	EACCULICAT		Permit No.		
CONSTRUCTION CODE GROUP	240 W. GENESSEE STREET		FRANKENMUTH, MI 48		48734-1398
Phone: (989) 652-3430 x113	Fax: (989) 652-345	1			
Issued: 08/26/2015 Expires: 02/22/2016	Please call (989) 652 an inspection 24 ho		Const. value: Zoning: Sec. No.	0.00	
APPLICANT		LOCATION	<u></u>		-
Finney Electric LLC		12091 E Tuscola	····		,
3135 N Antique Ct		03-11-6-25-2157	-005 Lot:		
Sanford MI 48657		Plat/Sub:			
Phone: (989) 205 4610			R-PUD		
Fax:					
OWNER		OCCUPANT			
LAIL, DONNA		LAIL, DONNA			······································
FRANKENMUTH MI 48734		FRANKENMU	°H MI 48734		
Phone:		Phone:			4
Fax:		Fax:			

Work Description: Single Family / New Home / #1031464810 Stipulations:

Permit Item	Work Type	Fee Basis	Item Total
25 Contractors Reg. Fee	Standard	1.00	15.00
01 APPLICATION FEE (Non-refundable)	Standard Item	1.00	30.00
02 Circuits, each	Standard Item	16.00	64.00
04 Dishwasher	Standard Item	1.00	7.00
06 Dryer	Standard Item	1,00	7.00
09 Fixtures (per 25 &/or fraction of)	Standard Item	1.00	• 7.0
10 Furnace/Unit Heater	Standard Item	1.00	7.0
13 Power Outlet (each)	Standard Item	2.00	16.0
14 Range	Standard Item	1.00	7.0
16a Service (Temporary)	Standard Item	1.00	15.0
16b Service (up to 200 amp)	Standard Item	00.1	15.0
21 WATER HEATER	Standard Item	1.00	7.0
23 FINAL INSPECTION -only 1 final incl/d	Standard Item	1.00	45.0

Fee Total: \$242.00 Amount Paid; \$242.00 orcald aurensin **Balance Due:** \$0.00 Inspector

Lagree this permit is only for the work described, and does not grant permission for additional or related work which requires separate permits. I understand that this permit will expire, and become null and void if work is not started within 180 days, or if work is suspended or abandoned for a period of 180 days anytime after work has commenced; and that I am responsible for assuring all required inspections are requested in conformance with the applicable code. I hereby certify that the proposed work is authorized by the owner, and that I am authorized by the owner to make this application as the authorized agent. Lagree to conform to all applicable laws of the State of Michigan and the local jurisdiction. All information on the permit application is accurate to the best of my knowlegde.

Payment of permit fee constitutes acceptance of the above terms. Ch. # 1529. R 1529. Ch. R 1529. M 23 7 M

	Mechanical	Permit No. PM1501
CONSTRUCTION CODE GROUP	240 W. GENESSEE STREET	FRANKENMUTH, MI 48734-139
Phone: (989) 652-3430 x113	Fax: (989) 652-3451	
Issued: 11/09/2015 Expires: 05/07/2016	Please call (989) 652-3430 x 113 for an inspection 24 hours in advance	Const. value: 0.00 Zoning: Sec. No.
APPLICANT	LOCATION	
Barnes Central Htg/Energy Concepts 9875 Beech Tree Ln Frankenmuth MI 48734 Phone: (989) 293 9003 Fax:	12091 E Tusco 03-11-6-25-21 Plat/Sub:	•
OWNER	OCCUPANT	
LAIL, DONNA FRANKENMUTH MI 48734	LAIL, DONNA FRANKENMU	
Phone: Fax:	Phone: Fax:	

Work Description: Single Family / New Home

Stipulations:

Permit Item	Work Type	Fee Basis	Item Total
27 Contractor's Fee	Standard'Item	1.00	15.00
01 Application Fee (Non-refundable)	Standard Item	1.00	30.00
03 Furnace	Standard Item	1.00	25.00
08 Decorative Appl./Gas Log/Pre-Manf. FP	Standard Item	1.00	25.00
10 A/C - Incl Split System	Standard Item	1.00	30.00
12 Bath/Kitchen Exhaust -each	Standard Item	3.00	21.00
13 Dryer	Standard Item	1.00	7.00
24 Additional Insp's/Re-insp/per insp	Standard Item	2.00	90.00
25 Final Inspection	Standard Item	1.00	45.00

Inspector

Fee Total:	\$288.00
Amount Paid:	\$288.00
Balance Due:	\$0.00

I agree this permit is only for the work described, and does not grant permission for additional or related work which requires separate permits. I understand that this permit will expire, and become null and void if work is not started within 180 days, or if work is suspended or abandoned for a period of 180 days anytime after work has commenced; and that I am responsible for assuring all required inspections are requested in conformance with the applicable code. I hereby certify that the proposed work is authorized by the owner, and that I am authorized by the owner to make this application as the authorized agent. I agree to conform to all applicable laws of the State of Michigan and the local jurisdiction. All information on the permit application is accurate to the best of my knowlegde.

Payment of permit fee constitutes acceptance of the above terms. $\partial \mathcal{K}(g_{1,0},q_{2,0}) = \frac{2\pi}{3} d^{2} d^{2} d^{2}$

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3 105 42 JE # 14789

1 fumbing]	Perm	IT INO.	PP150055
240 W. GENESSEE STRE	ET	FRANKENN	AUTH, MI	48734-1398
Fax: (989) 652-3451		• ••••••••		
		Const. value: Zoning: Sec. No.	0.00	
LO	CATION			
120	91 E Tuscola			
03-1	1-6-25-2157-	005 Lat		
		R-PUD		1
		·····		
OC	CUPANT			
LAI	L, DONNA	······································		
FR/	ANKENMUTI	H MI 48734		
Ph	one:			1
	Fax:			Ì
	240 W. GENESSEE STRE Fax: (989) 652-3451 Please call (989) 652-3430 an inspection 24 hours in a LOO 1200 03-1 Plan OC LAI FRA	240 W. GENESSEE STREET Fax: (989) 652-3451 Please call (989) 652-3430 x 113 for an inspection 24 hours in advance LOCATION 12091 E Tuscola 03-11-6-25-2157- Plat/Sub: D OCCUPANT LAIL, DONNA	240 W. GENESSEE STREET FRANKENM Fax: (989) 652-3451 FRANKENM Please call (989) 652-3430 x 113 for Const. value: an inspection 24 hours in advance Zoning: Sec. No. Sec. No. LOCATION 12091 E Tuscola 03-11-6-25-2157-005 Lot: Plat/Sub: R-PUD OCCUPANT LAIL, DONNA FRANKENMUTH MI 48734 Phone:	240 W. GENESSEE STREET FRANKENMUTH, MI Fax: (989) 652-3451 FrankENMUTH, MI Please call (989) 652-3430 x 113 for Const. value: 0.00 an inspection 24 hours in advance Zoning: Sec. No. 0.00 IcocATION I2091 E Tuscola 03-11-6-25-2157-005 Lot: Plat/Sub: R-PUD OCCUPANT IAIL, DONNA FRANKENMUTH MI 48734 FRANKENMUTH MI 48734 Phone: Phone: Phone:

Work Description: Single Family / New Home

Stipulations:

Permit Item	Work Type	Fee Basis	Item Total
01 Application Fee	Standard Item	1.00	30.0
02 Bathtub/Hot Tub/Spa	Standard Item	1.00	7.0
03 Dishwasher	Standard Item	1.00	7.0
05 Garbage Grinder	Standard Item	1.00	7.0
08 Lavatory	Standard Item	4.00	,28.0
1] Sewer	Standard Item	1.00	7.0
12 Shower	Standard Item	1.00	7.0
15 Stacks <	Standard Item	2.00	14.0
17 Sump	Standard Item	1.00	7.0
20 Water Closet	Standard Item	3.00	21.0
21 Water Heater	Standard Item	1.00	7.0
22 Water Piping	Standard Item	1.00	10.0
23 Add'l Insp./Re-insp/Adm fee/per insp	o Standard Item	1.00	45.0
24 FINAL INSPECTION (1 Insp Incl'd	Only Standard Item	1.00	45.0

Inspector

 Fee Total;
 \$242.00

 Amount Paid;
 \$242.00

 Balance Due;
 \$0.00

Lagree this permit is only for the work described, and does not grant permission for additional or related work which requires separate permits. Lunderstand that this permit will expire, and become null and void if work is not started within 180 days, or if work is suspended or abandoned for a period of 180 days anytime after work has commenced; and that I am responsible for assuring all required inspections are requested in conformance with the applicable code. Thereby certify that the proposed work is authorized by the owner, and that I am authorized by the owner to make this application as the authorized agent. Lagree to conform to all applicable laws of the State of Michigan and the local jurisdiction. All information on the permit application is accurate to the best of my knowlegde.

Payment of permit fee constitutes acceptance of the above terms.

CONSTRUCTION BOARD OF APPEALS

Application for a Variance, or Appeal

Fee: \$650.00 Non-Refundable

Section I: Applicant Information

"/without

...)

Name:
Address:
Phone Number: ()Home ()Work
Section II: Property Owner Information (If not applicant)
Name:
Address:
Phone Number: ()
Section III: Property Information
The property in question is located at,, Michigan 48, being legally described as:,
Section IV: Previous Appeal
A previous appeal has () or has not () been made with respect to this property and this matter.
If yes, previous case number wasdated
(To be completed by the Local Clerk)
Decision on previous appeal:

Section V: Reason(s) for Application (Please check)

_A. Variance

"NUMBER

(1) To grant a specific variance to a substantive requirement of the code.

Specifically state your request under this section (Attach additional documentation deemed pertinent):

Section VI: Authorization to Access Property

I (we), the legal owners of the property described in Section II above, do hereby grant the members of the Construction Board of Appeals and the Village employees or their agents or representative permission to access and review the site for the purpose of this appeal.

Signature of Property Owner	Date

Signature of Property Owner

Section VII: Execution of Application

I (we), the above named applicant(s), hereby make the aforementioned appeal to the ______ Construction Board of Appeals in accordance with the Single State Construction Code Act, 1972 PA 230.

Signature of Applicant

Date

Date

Signature of Applicant Date

Section VIII: Representation at Public Hearing

I (we), the above named applicant(s) can not personally appear before the Construction Board of Appeals; and such, authorize _______to be my (our) representation for the aforementioned appeals.

Sign	atur	∍ ∩f	Ann	licant
Sign	alui	5 01	whh	ncant

Date

Date

Signature of Applicant

I have read the above application and understand that once the Construction Board of Appeals meeting has been scheduled, the administrative fee will not be refunded under any circumstances.

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"lound"

.....

Signature	Date

F	or Office Use Only
Date Received:	
Fee Received:	Ck #
Case Number:	
Public notice placed in	(Newspaper) on
Posted in Public Locations:	
Notice mailed to property owners v	vithin 300 ft (Attach list of property owners) on:
Property is zoned:	
Action by CBA:	
	· · · · · · · · · · · · · · · · · · ·
,	3

CONSTRUCTION CODE GROUP PLAN REVIEW RESPONSE

Date: 00/00/0000

From: Michael Setzer/Building Inspector

 □ Building
 □ Fire
 □ City Manager
 □ Mech/Plumbing

 □ City Engineer
 □ Elec
 □ Police Chief
 □ DPW

Project: new project

1. STATUS OF PLAN REVIEW. Please "X" applicable statement

□ APPROVE prints as submitted. See Section 2 below.

DISAPPROVE prints as submitted. See Section 3 below.

□ UNABLE TO BE COMPLETED. See Section 3 below.

2. APPROVED WITH COMMENTS. Although Plan Review approval may be issued, the following information must be provided, prior to obtaining a building permit.

D Please "X" here if information has been attached on a separate sheet.

3. DISAPPROVED WITH COMMENTS. In the space provided below, please explain (1) why the prints have been disapproved or why the review has not been completed and (2) what action(s) must be taken in order for the prints to be resubmitted for additional review.

□ Please "X" here if information has been attached on a separate sheet.

Signature_____Title_____

If we do not receive your written comments on the attached form by 00/00/0000 we must assume that a favorable review has taken place and there are no additional requirements per your authority.

CONSTRUCTION DOCUMENTS CHECKLIST for the

2012 Michigan Building Code Including Building Permit Application Checklist

on the type = [105.3(7).,1 completed c tenant finish	and complexity 07.1] Applican hecklist to the ies. Thank you	for the examination and approval of a building permit application for non-residential and multi-family projects. Depend of the project, additional information not indicated on this checklist may be required by the MBC or the Building Offici- ts are encouraged to indicate if the required data is applicable to the project, or not applicable, and attach a copy of the construction documents. Please contact the local building department for requirements regarding phased construction if or taking the time to complete this checklist. Having the necessary information at the beginning of the plan review pro- ance of a building permit.
DATE SU	BMITTED	
PROJECT		
	ADDRESS	
	TRACKING	
REPRESE	ST PREPARI	
	**	PEOLIDED ON THE CONSTRUCTION DOCUMENTS 105 2(4)
Provided	Not	REQUIRED ON THE CONSTRUCTION DOCUMENTS 105.3(4)
Dwg / Spec	Applicable	
		Indicate the project name and address on the plans if available (105.3.(2); 107.2.1)
		Owner's name & mailing address
		Name of the registered design professional
		Address of registered design professional
		Telephone number of the registered design professional
		Fax number of the registered design professional
		Name, Michigan license number, address, telephone number and fax number of the registered design
		professional in responsible charge (unless waived by the Building Official) (107.3.4)
		Name of individual to receive review comments
		Address of individual to receive review comments
		Telephone number of individual to receive review comments
		The Michigan licensed Registered Design Professional must provide original signature, seal and date on all sheets of the drawings and specification manual or on the index sheet of the drawings and specification manual only when the index sheet covers all the sheets that make up the drawing set and specification manual (107 107.3,4)
		List codes applicable to project (107.2.1) The MBC or the MBC Section 34, or the Michigan Rehab Code r be used for existing buildings
		List of all proposed deferred submittal documents (107.3.4.1)
_		SITE PLANS (107 2.5)
		Identify all existing and proposed construction
		Show property lines, identify building distances from property lines and from other buildings on
- 		Identify all structures to be demolished
		Identify the total number of parking spaces provided
		Identify the total number of accessible parking spaces provided, including van accessible spaces (1106.1, 1106.5)
		Show proposed finish grades, grade floor elevations, street elevations
····· ··		Show flood plain elevations and boundaries
		Indicate the occasion of all new and existing utilities including the entrance points into the build and the FDC location
		Show site grading (slope away) of the ground immediately adjacent to the foundation of the building
		Provide complete dimensions, running slope and cross slope of all accessible parking spaces and accessible parking to the accessible entrances (107.2.1, 1104.1)

Page 1 of 5

	BUILDING PLANS
	Indicate Use Group, Indicate mixed use option if applicable (302.1)
<u>,</u>	Indicate Type of Construction (602.1)
	Indicate the use of all rooms and spaces. Indicate number of occupants on every floor, room and space. Show method used to determine the occupant load and means of egress requirements (10 2.1, 107.2.3 1004.1)
	Provide Key Plan if needed to identify the location of the proposed work (107.2.1)
	Indicate total area of building, number of stories, and provide height and area calculations including open perimeter & fire suppression increases (501.1, 503.1)
_	Indicate if a full or limited area Fire Suppression system & Fire Alarm system will be installed and provide deferred submittals. (903; 907; 901.6; 107)
	Show location and provide details of all fire and smoke rated assemblies and protection of penetrations, including permanent markings and identifications. Provide U.L. design number or other approval rating (107.2.1, 701.1, 703.6, 712.1, 713.1)
	Show location of portable fire extinguishers (906.1)
_	Provide details showing the proposed assembly of all walls, floors, roofs and stairs (107.2.1, 107.2.3, 107.2.4)
]	Show location and hourly rating of all fire doors, fire dampers and fire windows (715.1)(716.1)
	Provide details of room finishes including type of materials with flame spread and smoke development ratings indicated for all materials. (801.1)(803)(107.2.1)(2603.1) Documentation f the flame spread and smoke development of all materials must be provided at field inspection
	Provide flame spread and smoke development documentation for all foam plastics and details on the foam plastic insulation thermal barriers (107.2.1, 2603.1)
	Provide complete dimensions for all rooms and spaces including stairs, aisles, passageways, corridors, areas around counters, fixtures, all circulation and egress paths, and maneuvering clearance at all doors (107.2.1, 1003.1, 1101.2)
	Provide door hardware, door and window details including type, size, material and hourly rating required (107.2.1, 1008.1)
	Show masonry sizes, grades, reinforcement, anchorages, loads and compressive strengths, provide masonry fireplace details and clearances. 2101.2, 2101.3(1) thru (9), 2101.3.1)
	Provide stairway details with all guard and handrail details (1009)
	Show location of all exit signs and means of egress lighting (1006.1, 1011.1)
	Show type and thickness of all glazing materials and safety glazing where required (2401.1)
	Provide accessibility details (107.2.1; 1101.2)
	Provide dimensions and details for all interior accessible routes within the building. Include the maneuvering clearance required at all doors (1104)
	Indicate heights, clearances and turning radii along all accessible routes (1104)
	Provide plumbing fixture and accessory details (1109)
	Provide dimensions and details for all use group requirements. Include features and facilities required to be accessible (1107)(1108)(1109)
	Provide signage details including location, wording, size and mounting height (1110)
	Show exterior wall details (107.2.1; 107.2.4; 1401.1)
	All base, sill, jamb and head flashings
	Intersection with dissimilar materials
	Corners
	End conditions
	Control joints
	Intersection at roof, eaves, or parapets
- <u>.</u>	Details around openings
·····-	Construction space venting
	Means of water drainage
	Roof overflow drains (P 1105; P 1108)

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	STRUCTURAL PLANS (107.2.1; 1603.1)
	Indicate design loads (1603.1)
	Roof Live Load (1603.1.2)
	Floor Live Load (1603.1.1)
	Ground Snow Load (1603.1.3)
· · · · · · · · · · · · · · · · · · ·	Roof Snow Load (1603.1.3)
······································	Wind Design Data (1603.1.4)
	Earthquake Design Date (1603.1.5)
	Indicate load bearing value of soils (1603.1.6;1801.2;1803.6 (5)
	Guard and Handrail (1607.8.1)
	Indicate any Special Loads (1603.1 8)
	Show foundation dimensions and details (107.2.1;1601.1;1603.1)
	List all Design / Construction Standards and material speciation's (107.2.1)
	Indicate the location, size and cross section of all structural members with dimensions, column centers and offsets (1603.1)
	Identify lateral resistive system(s) including lateral bracing and transfer and collection systems (1604.4; 1604.9)
	ELECTRICAL PLANS (106.1.1)
	Electrical layout (Michigan Part 8 – 80.21)
	Wattage Schedule (Michigan Part 8 – 80.21)
	Short circuit calculations for circuit breaker installation
	Service Location and Riser Diagram (Michigan Part 8-80.21)
	Show lighting system design, circuits, switches, materials, equipment listing, light fixtures and installation instructions (2701.1 NEC110.2, 110.3)
	Show power system design, circuits, switches, materials, equipment listing, light fixtures and installation instructions (2701; NEC110.2, 110.3)
	Single line diagram including available fault current and bus bracing
	Light fixture schedule
	Show exit signs and lighting and power supply (1001.1, 1011.1)
	Show egress emergency lighting (1001.1, 1006.1, 1011.1)
	Indicate ratings of materials installed in wet locations (NEC 358)
	Indicate wiring and materials in ducts, plenums and equipment
	Indicate wiring methods, conduits and materials (NEC 300)
	Show service conductors, conductor sizes, ratings and insulation (NEC230)
	Indicate interrupting rating (NEC 110.9, 110.10, 230, 240.2)
	Verify working space in front of equipment (NEC 110.26, 110.32, 110.34)
	Indicate means of disconnect and number and location (NEC 230.70, 240.13)
	Show ground fault protection (NEC 230.95)
	Show hazardous locations and materials used
	Indicate protection of conductors (NEC 240.3)
	Indicate grounding of electrical system (NEC 250)
	Show design of emergency electrical system (NEC 700)
	PLUMBING PLANS (P106 3 1)
	Show all underground plumbing and building riser diagram (P106 3.1)
	Show design of water supply and distribution including sizes, depths and materials (P601.1) Show plumbing fixture layout (P401.1, P106.3.1)
	Provide water use calculations (P106.3.1)
	Show all backflow prevention devices and type of device (P106.3.1, 601.1, 608)
	Provide occupancy calculations for plumbing fixtures provided (Table P403.1)
	Show locations, equipment sizes and hookups for all boilers and water heaters (M101.2)
	Provide details of water system design (P601.1)

Page 3 of 5

	PLUMBING PLANS, CONT -
	Indicates water temperature control devices (P607.1)
	Show hot water return circulation (if required) (P607.1)
	Indicate control of thermal expansion (P607.3)
	Indicate hot water heater relief valve discharge (P504)
L	Show design and location of sanitary drains and vent systems including sizes, depths, slopes,
	materials and cleanouts (P701.1)
	Show details for any hazardous waste system (P702.5)
	Show design of storm water management system including sizes, depths, slopes, materials and
	cleanouts (P1101.2)
	Provide calculations for rainfall rates and water retention amounts(P1101.7, 1105,
	1106, 1107)
	MECHANICAL PLANS (M106.3.1)
	Show compliance with International Energy Conservation Code (M301.2)
	Show compliance with international Energy conservation code (NISO1.2) Show protection of penetrations through all rated assemblies (302.2)
	Show protection of penetrations through an fatch assemblies (502.2) Show equipment locations, service clearances and service access (M306.1)
	Show heating and cooling load calculations (M106 3.1; 312.1)
	Provide calculations for combustion air and exhaust air (M701.1)
	Hydronic Systems
	Show complete process piping diagram (M1201.1, 1201.2)
	Show provisions for combustion air supply and venting (M701.1)
	HVAC systems
	Show provisions for ventilation air, natural or mechanical (M401.2; 401.4)
	Show energy loads, equipment locations and equipment specifications including cfn
	and system static (M301.2, 303.1, 304.1)
	Show fire / smoke damper locations and details including rating (607.1)
	Show locations of smoke duct detectors in both return and supply ducts (M606.1)
	Show ductwork layout including gauges, hangers and sizing (M603.1)
** <u></u>	Show duct insulation details including R-factor and Perm. Rating (M604.1)
	Show location of vents for all fuel fired appliances (M804)
	Fuel piping systems
	Provide piping layout, load calculations and meter location (IFGC 402)
	Provide piping layout, told calculations and meter rocarion (IFGC 402) Provide system operating pressure and pressure regulator detail (IFGC 402 416)
	Exhaust and ventilation systems (M501.1, M401.1)
	Show method of smoke control (M513)
·····	Provide documentation for Special Inspector (M513.3)
	Show hazardous exhaust systems (M510.1)
	Determine design class as hazardous or non-hazardous Provide MCDS data sheets t
	support hazardous level indicated (M510.1)
	Show locations for inlets, outlets and heights for exhaust equipment and hoods 502
	Provide exhaust equipment specifications, cfm and static pressure (M106.3.1)
	Commercial kitchen hoods Type 1 and Type 2 (M507.1)
	Provide duct layout, grease door location and method of attachment (M506.3)
	Provide velocity cfm and location of ventilation equipment (507.1(3)
	Provide fire protection for Type 1 hoods (M509)
	Provide make-up air and equipment control diagram (M508.1)
	Provide hood sizing show top, side and front views (M507.4, 507.5, 507.11, 507.12)
	Provide nood sizing show top, side and none views (MS07.4, 507.5, 507.11, 507.12) Provide complete appliance lineup under Type 1 hoods (M507.13)
	Provide Type 2 hoods for dishwashers (M507.2.2)
	Provide ratings for all hoods (M507.1)
	Refrigeration (1101.1)
	Provide classification for refrigeration system (M1103.3)
	Provide refrigerant classification (M1103.1)
	Provide occupancy classification (M1103.2)
	Provide quantity of maximum allowable refrigerant (M1103.1)
L	Provide details for refrigeration system enclosure requirements (M1105)
	Provide details for refrigeration system enclosure requirements (ATTOS) Provide pressure tests for all non-factory or field erected equipment & appliances

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	Please contact the local jurisdiction to determine what additional information may be required, the number of
	sets of documents to be submitted and/or the requirements for phased construction or tenant finish permits
	Contact information provided: Name, Address, Business phone, Cell phone Fax number and Email address
	Building Permit Application filled out completely and signed by the Applicant (105.1, 105.3)
	Construction Documents and Specification Manual, if used - Signed, sealed and dated by a State Licensed
	Registered Design Professional (107.1)
	Describe the business use and its intended operation (105.3)
	Statement of Special Inspections – Include a complete list of materials and work requiring special
	inspections, the inspections to be performed and their frequencies. Provide a list of agencies and firms you
	propose to conduct each of the inspections and the qualifications, credentials and experience for each of the
	individuals (1704.1)
	Soils Report - Prepared by a State Licensed Registered Design Professional. The reports must have the Sta
	Licensed Registered Design Professional's original signature, seal and date. (1803.6)
-	Energy Calculations and details to show compliance to the Michigan Uniform Energy Code Part 10a rules
	R408.31087a to R408.31099. ASHRAE/IESNA Standard 90.1
	Structural Calculations - For all structural members and foundations. Include the deflection limits and all
	load calculations. All calculations must have the State Licensed Registered Design Professional's original
	signature, seal and date. (107.1)
	Hazardous Materials - If hazardous materials are to be stored, dispensed, or used for manufacturing or
	processing, describe the type, use, quantity, location and method of storage of all materials. Material Safety
	Data Sheets (MSDS) must be submitted. The construction drawings shall address the requirements of the
	MBC for high hazard use if quantities above the exempt amounts are proposed. Hazardous materials will
	also be reviewed by the Fire Department (107.2.1; 307.1)
	Valuation. State the valuation of the proposed work. (105.3 #5)

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Phil Kerns <pkerns@frankenmuthcity.com>

MADCAD.com Online Library Access Information

1 message

Erdem Dedebas <ededebas@madcad.com> To: pkems@frankenmuthcity.com Tue, Feb 2, 2016 at 10:21 AM

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If you have any questions on how to use the eLibrary, please feel free to email me at **ededebas@madcad.com** or call me at **202-265-1940 x 207**. For other questions, you can also communicate with Steve Taglauer at **staglaue@midland-mi.org**.

Best regards,

Erdem Dedebas

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Codes & Standards Included in MADCAD.com Online Library - 01/26/2016

<u>ASCE</u>

- ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures, Third Printing / 2010
- SEI/ASCE Standard 32 Design and Construction of Frost-Protected Shallow Foundations / 2001
- ASCE/SEI Standard 24 Flood Resistant Design and Construction / 2005

ASHRAE

- ASHRAE Standard 90.1-2007 Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P Edition) (ANSI Approved; IESNA Cosponsored) / 2007
- ASHRAE Standard 15-2010 Safety Standard for Refrigeration Systems and Standard 34-2010 - Designation and Classification of Refrigerants / 2010
- ASHRAE Standard 62.1-2010 Ventilation for Acceptable Indoor Air Quality / 2010
- ASHRAE Standard 140 Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs (ANSI Approved) / 2007
- ASHRAE Standard 119-1988 (RA 2004) Air Leakage Performance for Detached Single-Family Residential Buildings (ANSI Approved) / 1988

<u>ASME</u>

- ASME A112.4.1 Water Heater Relief Valve Drain Tubes / 1993
- ASME A112.4.3 Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System / 1999
- ASME A112.4.2 Water Closet Personal Hygiene Devices / 2009
- ASME A112.36.2M Cleanouts / 1991
- ASME A112.21.2M Roof Drains / 1983
- ASME A112.6.3 Floor And Trench Drains / 2001
- ASME A112.19.7 Hydromassage Bathtub Appliances / 2006
- ASME A112.3.4 Macerating Toilet Systems and Related Components / 2000
- ASME B31.1 Power Piping / 2010
- ASME B31.3 Process Piping / 2010



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- ASME B36.10M Welded and Seamless Wrought Steel Pipe / 2004
- ASME CSD 1 Control and Safety Devices for Automatically Fired Boilers / 2009
- ASME A112.19.5 Trim for Water-Closet Bowls, Tanks and Urinals / 2005
- ASME B16.26 Standard for Cast Copper Alloy Fittings for Flared Copper Tubes / 2006
- ASME B16.12 Cast Iron Threaded Drainage Fittings / 1998
- ASME B16.18 Cast Copper Alloy Solder Joint Pressure Fittings / 2001
- ASME A17.1/CSA B44 Safety Code for Elevators and Escalators / 2007
- ASME B16.22 Wrought Copper And Copper Alloy Solder Joint Pressure Fittings / 2001
- ASME A112.14.4 Grease Removal Devices / 2001
- ASME A112.18.1 Plumbing Supply Fittings / 2005
- ASME A112.18.2 Plumbing Waste Fittings / 2005
- ASME A112.14.3 Grease Interceptors / 2000
- ASME A112.14.1 Backwater Valves / 2003
- ASME A112.19.4M Porcelain Enameled Formed Steel Plumbing Fixtures / 1994
- ASME A112.1.3 Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances / 2000
- ASME A112.18.3 Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings / 2002
- ASME A112.1.2 Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors) / 2004
- ASME A112.19.1 Enameled Cast Iron Plumbing Fixtures / 1994
- ASME A112.19.2 Ceramic Plumbing Fixtures / 2008
- ASME A112.19.3/CSA B45.4 Stainless Steel Plumbing Fixtures / 2008
- ASME A112.18.6 Flexible Water Connectors / 2009
- ASME A112.19.19 Vitreous China Nonwater Urinals / 2006
- ASME A112.19.15 Bathtub/Whirlpool Bathtubs with Pressure Sealed Doors / 2005
- ASME A112.18.7 Deck mounted Bath/Shower Transfer Valves with Integral Backflow Protection / 1999



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<u>ASTM</u>

- A74-09 Standard Specification for Cast Iron Soil Pipe and Fittings
- A888-09 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
- B32-08 Standard Specification for Solder Metal
- B42-02e1 Standard Specification for Seamless Copper Pipe, Standard Sizes
- B687-99(2005)e1 Standard Specification for Brass, Copper, and Chromium-Plated Pipe Nipples
- B75-02 Standard Specification for Seamless Copper Tube
- B813-00(2009) Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube
- B828-02 Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings
- B88-03 Standard Specification for Seamless Copper Water Tube
- C1261-07 Standard Specification for Firebox Brick for Residential Fireplaces
- C1277-08 Standard Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings
- C1283-07a Standard Practice for Installing Clay Flue Lining
- C129-06 Standard Specification for Nonloadbearing Concrete Masonry Units
- C1396/C1396M-13 Standard Specification for Gypsum Board
- C14-07 Standard Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe
- C143/C143M-08 Standard Test Method for Slump of Hydraulic-Cement Concrete
- C1461-08 Standard Specification for Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gaskets for Joining Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems for Above and Below Ground Use
- C1540-08 Standard Specification for Heavy Duty Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings
- C28/C28M-00(2005) Standard Specification for Gypsum Plasters
- C296-00(2004)e1 Standard Specification for Asbestos-Cement Pressure Pipe
- C33-03 Standard Specification for Concrete Aggregates
- C475/C475M-02(2007) Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board
- C476-08 Standard Specification for Grout for Masonry



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- C55-01 Standard Specification for Concrete Brick
- C55-06e1 Standard Specification for Concrete Building Brick
- C564-08 Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings
- C59/C59M-00(2006) Standard Specification for Gypsum Casting Plaster and Gypsum Molding Plaster
- C62-08 Standard Specification for Building Brick (Solid Masonry Units Made From Clay or Shale)
- C630/C630M-03 Standard Specification for Water-Resistant Gypsum Backing Board
- C73-05 Standard Specification for Calcium Silicate Brick (Sand-Lime Brick)
- C90-00 Standard Specification for Loadbearing Concrete Masonry Units
- C90-08 Standard Specification for Loadbearing Concrete Masonry Units
- C91-05 Standard Specification for Masonry Cement
- C94/C94M-09 Standard Specification for Ready-Mixed Concrete
- D1785-06 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- D1970-01 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- D2235-04 Standard Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
- D2239-03 Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR)
 Based on Controlled Inside Diameter
- D2466-06 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
- D2609-02 Standard Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe
- D2657-07 Standard Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings
- D2661-06 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS)
 Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
- D2665-09 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings



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- D2672-96a(2003) Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement
- D2737-03 Standard Specification for Polyethylene (PE) Plastic Tubing
- D2751-05 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings (Redline)
- D2846/D2846M-09 Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems
- D2949-01a(2008) Standard Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
- D3462-09 Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules
- D3679-09 Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding
- D3957-06 Standard Practices for Establishing Stress Grades for Structural Members Used in Log Buildings
- D4869-05e1 Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing
- D6380-03(2009) Standard Specification for Asphalt Roll Roofing (Organic Felt)
- D7032-08 Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)
- E283-04 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- E814-08b Standard Test Method for Fire Tests of Penetration Firestop Systems
- E84-09 Standard Test Method for Surface Burning Characteristics of Building Materials
- E90-04 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- F1281-07 Standard Specification for Crosslinked
 Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe
- F1282-06 Standard Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
- F1346-91(2003) Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs



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- F1554-07a Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength
- F1667-05 Standard Specification for Driven Fasteners: Nails, Spikes, and Staples
- F1807-08 Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
- F1866-07 Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings
- F1960-09 Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing
- F1974-08 Standard Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked
 Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe
- F1986-01(2006) Standard Specification for Multilayer Pipe Type 2, Compression Fittings, and Compression Joints for Hot and Cold Drinking-Water Systems
- F2080-08 Standard Specification for Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe
- F2090-08 Standard Specification for Window Fall Prevention Devices With Emergency Escape (Egress) Release Mechanisms
- F2098-08 Standard Specification for Stainless Steel Clamps for Securing SDR9
 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings
- F2159-05 Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
- F2262-05 Standard Specification for Crosslinked
 Polyethylene/Aluminum/Crosslinked Polyethylene Tubing OD Controlled SDR9
- F2434-08 Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Crosslinked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing
- F405-05 Standard Specification for Corrugated Polyethylene (PE) Pipe and Fittings
- F409-02(2008) Standard Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings
- F437-06 Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80



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- F441/F441M-02(2008) Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
- F493-04 Standard Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
- F628-08 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS)
 Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core
- F656-08 Standard Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings
- F876-08b Standard Specification for Crosslinked Polyethylene (PEX) Tubing
- F877-07 Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hotand Cold-Water Distribution Systems

<u>AWWA</u>

- AWWA C511-07: Reduced Pressure Principle Backflow Prevention Assembly / 2007
- AWWA C510-07: Double Check Valve Backflow Prevention Assembly / 2007

<u>FEMA</u>

- FEMA TB-2 Flood Damage-Resistant Materials Requirements / 2008
- FEMA TB-11 Crawlspace Construction for Buildings Located in Special Flood Hazard Areas (FIA-TB-11) / 2001

<u>1CC</u>

- International Fire Code / 2012
- International Fuel Gas Code / 2012
- International Private Sewage Disposal Code / 2012
- ICC 500:Standard for the Design and Construction of Storm Shelters / 2008
- International Property Maintenance Code / 2012
- ICC 400-2012: Standard on the Design and Construction of Log Structures / 2012
- ICC/ANSI A117.1 / 2003
- ICC A117.1 Accessible and Usable Buildings and Facilities / 2009
- ICC 300-2012: Bleachers, Folding and Telescopic Seating, and Grandstands / 2012



- Michigan Rehabilitation of Existing Building Code / 2009
- Michigan Residential Code / 2009
- Michigan Mechanical Code / 2012
- Michigan Plumbing Code / 2012
- Michigan Uniform Energy Code / 2009
- Michigan Building Code / 2009

<u>NFPA</u>

- 2009 NFPA 1: Fire Code
- 2012 NFPA 1: Fire Code
- 2015 NFPA 1: Fire Code
- 2007 NFPA 10: Standard for Portable Fire Extinguishers
- 2010 NFPA 10: Standard for Portable Fire Extinguishers
- 2013 NFPA 10: Standard for Portable Fire Extinguishers
- 2006 NFPA 101: Life Safety Code
- 2000 NFPA 101: Life Safety Code
- 2009 NFPA 101: Life Safety Code
- 2012 NFPA 101: Life Safety Code
- 2015 NFPA 101®: Life Safety Code®
- 2010 NFPA 105: Standard for Smoke Door Assemblies and Other Opening Protectives
- 2010 NFPA 11: Standard for Low-, Medium-, and High-Expansion Foam
- 2005 NFPA 110: Standard for Emergency and Standby Power Systems
- 2010 NFPA 110: Standard for Emergency and Standby Power Systems
- 2013 NFPA 110: Standard for Emergency and Standby Power Systems
- 2010 NFPA 111: Standard on Stored Electrical Energy Emergency and Standby Power Systems
- 2006 NFPA 1124: Code for the Manufacturing, Transportation, Storage and Retail Sale of Fireworks and Pyrotechnic Articles
- 2011 NFPA 12: Standard on Carbon Dioxide Extinguishing Systems
- 2010 NFPA 120: Standard for Fire Prevention and Control in Coal Mines
- 2009 NFPA 12A: Standard on Halon 1301 Fire Extinguishing Systems
- 2007 NFPA 13: Installation of Sprinkler Systems
- 2016 NFPA 13: Standard for the Installation of Sprinkler Systems



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- 2010 NFPA 13: Automatic Sprinkler Systems Handbook
- 2013 NFPA 13: Standard for the Installation of Sprinkler System
- 2007 NFPA 13D: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
- 2010 NFPA 13D: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
- 2016 NFPA 13D: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
- 2013 NFPA 13D: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes,
- 2007 NFPA 13R: Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height
- 2010 NFPA 13R: Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height
- 2016 NFPA 13R: Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies
- 2013 NFPA 13R: Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies,
- 2007 NFPA 14: Standard for the Installation of Standpipe and Hose Systems
- 2010 NFPA 14: Standard for the Installation of Standpipe and Hose Systems
- 2013 NFPA 14: Standard for the Installation of Standpipe and Hose Systems
- 2011 NFPA 16: Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems
- 2009 NFPA 17: Standard for Dry Chemical Extinguishing Systems
- 2009 NFPA 170: Standard for Fire Safety Symbols
- 2009 NFPA 17A: Standard for Wet Chemical Extinguishing Systems
- 2007 NFPA 20: Standard for the Installation of Stationary Fire Pumps for Fire Protection
- 2010 NFPA 20: Standard for the Installation of Stationary Pumps for Fire Protection
- 2013 NFPA 20: Standard for the Installation of Stationary Pumps for Fire Protection
- NFPA 2001: Clean Agent Fire Extinguishing Systems



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- 2006 NFPA 211: Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances
- 2010 NFPA 211: Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances
- 2013 NFPA 211: Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances
- 2009 NFPA 221: Standard for Fire Walls and Fire Barrier Walls
- 2012 NFPA 252: Standard Methods of Fire Tests of Door Assemblies
- 2011 NFPA 253: Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
- 2012 NFPA 257: Standard on Fire Test for Window and Glass Block Assemblies
- 2008 NFPA 259: Standard Test Method for Potential Heat of Building Materials
- 2011 NFPA 265: Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls
- 2012 NFPA 268: Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source
- 2009 NFPA 275: Standard Method of Fire Tests for the Evaluation of Thermal Barriers Used Over Foam Plastic Insulation
- 2012 NFPA 285: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components
- 2011 NFPA 286: Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- 2012 NFPA 288: Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies
- 2009 NFPA 289: Standard Method of Fire Test for Individual Fuel Packages
- 2008 NFPA 30: Flammable and Combustible Liquids Code
- 2012 NFPA 30: Flammable and Combustible Liquids Code
- 2015 NFPA 30: Flammable and Combustible Liquids Code
- 2006 NFPA 31: Standard for the Installation of Oil-Burning Equipment
- 2011 NFPA 31: Standard for the Installation of Oil-Burning Equipment
- 2011 NFPA 32: Standard for Drycleaning Plants
- 2011 NFPA 40: Standard for the Storage and Handling of Cellulose Nitrate Film



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- 2011 NFPA 409: Standard on Aircraft Hangars
- 2011 NFPA 418: Standard for Heliports
- 2009 NFPA 484: Standard for Combustible Metals
- 2012 NFPA 484: Standard for Combustible Metals
- 2015 NFPA 484: Standard for Combustible Metals
- 2001 NFPA 50: Standard for Bulk Oxygen Systems at Consumer Sites
- 2007 NFPA 51: Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes
- 2009 NFPA 54: National Fuel Gas Code
- 2012 NFPA 54: National Fuel Gas Code
- 2015 NFPA 54: National Fuel Gas Code
- 2008 NFPA 58: Liquefied Petroleum Gas Code
- 2011 NFPA 58: Liquefied Petroleum Gas Code
- 2014 NFPA 58: LP-Gas Code Handbook
- 2008 NFPA 61: Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities
- 2013 NFPA 654: Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
- 2012 NFPA 655: Standard for Prevention of Sulfur Fires and Explosions
- 2012 NFPA 664: Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities
- 2008 NFPA 70: National Electrical Code
- 2005 NFPA 70: National Electrical Code
- 2011 NFPA 70: National Electrical Code
- 2014 NFPA 70: National Electrical Code (NEC)
- 2010 NFPA 701: Standard Methods of Fire Tests for Flame Propagation of Textiles and Films
- 2012 NFPA 704: Standard System for the Identification of the Hazards of Materials for Emergency Response
- 2007 NFPA 72: National Fire Alarm Code
- 2013 NFPA 72: National Fire Alarm and Signaling Code
- 2010 NFPA 72: National Fire Alarm and Signaling Code
- 2009 NFPA 720: Standard for the Installation of Household Carbon Monoxide (CO) Warning Equipment



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- 2010 NFPA 80: Standard for Fire Doors and Other Opening Protectives
- 2011 NFPA 85: Boiler and Combustion Systems Hazards Code
- 2009 NFPA 92B: Standard for Smoke Management Systems in Malls, Atria, and Large Areas
- 2008 NFPA 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations
- 2012 NFPA 99: Health Care Facilities Code
- 2012 NFPA 5000: Building Construction and Safety Code
- 2015 NFPA 5000®: Building Construction and Safety Code®

SMACNA

- SMACNA Fibrous Glass Duct Construction Standards, 7th Edition / 2003
- SMACNA HVAC Duct Construction Standards Metal and Flexible, 3rd Edition / 2005

Construction Code Group []Blumfield Township • []Frankenmuth City • []Frankenmuth Township • []Tuscola Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Telephone: (989) 652-3430, x113 • Fax: (989) 652-3451 Website: www.frankenmuthcity.com

INSPECTION NOTICE

Job Location						Perr	nit #	
Name of Po	ermit Holder							
Address								
Inspection:	[] Building	[] Ele	ctrical	[] Fire	[]M	lechanical	[] Plumbing	
Туре:	[] Exterior Wall	l/Flashing	[] Underground [] Final	[]P	rogress	[] Rough	[] Insulation	
Suitus:	[] Approved	[] Not Approve	d – See Comment((s) Below [] (Other			
Upon inspe	ection for compli	iance with the C	onstruction Code	e, the followir	ig correct	ion(s) is (are) re	equired:	
		· · · · · · · · · · · · · · · · · · ·						
<u></u>								
	<u></u>	·						
							, , , , , , , , , , , , , , , , , , ,	
			<u></u>			у ₁₁		
e call to be inspected	o schedule a re-ins l and approved be	spection at (989) (fore any work is c	652-3430, x113 wł overed.	nen the correcti	ion(s) has ((have) been comp	leted. The above correcti	ons must
Date of Ins	pection				_ Inspect	or		

File Name: Construction Codes/CCG Inspection Notice Form (12/2011)

"A Landson

Construction Code Group Blumfield Township • Frankenmuth City • Frankenmuth Township 240 W. Genesee Street Frankenmuth, MI 48734-1398 Phone: (989) 652-3430, x113 Fax: (989) 652-3451 Website: www.frankenmuthcity.com Fee: \$15.00

CONTRACTOR REGISTRATION FORM

Date:				Registrati	on: Number	
Company N	lame:					
Address:				_City:	State:	Zip:
Telephone:			Email Ac	ldress:		
Trade: 🗆 Bi	uilding	Electrical	🗆 Plumbing	Mechanical	□ Other:	
1. Occ	upationa	ll License Num	ber:			
Exp	iration I	Date:				
2. Woi (a. (b. E2	rker's Di: .) Work (.) OR - F KCLUSI(sability Compe Comp #: Reason for Exe	msation Insurat (mption: 🗌 No ch can be acquit	ice Carrier:	(provide a 'NO	
3. Inte	ernal Rev	venue Code, Er	nployer Identif	ication Number:		
Rea	son for H	Exemption:				
4. Mic	higan Er	nployment Sec	curity Commiss	ion Number:		
Rea	son for E	Exemption:				
being secti- circumven	on 125.1 t the lice	523a of the M ensing require	ichigan Comp ments of this s	lied Laws prohi tate relating to	bits a person f persons who a	ublic acts of 1972, from conspiring to re to perform 1 23a are subject

Applicant's Signature:

to civil fines.

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" Marine

TO BE PROVIDED: 1.) COPY OF STATE LICENSE 2.) PICTURE ID (I.E. DRIVERS LICENSE, COMPANY I.D.) 3. IF NOT MARKING 'NO EMPLOYEE'S' ABOVE THEN SUPPLY A WORKMANS COMP. CERTIFICATE (OR) PROVIDE A NOTICE OF EXCLUSION FORM (PER 2B ABOVE)

Filing a Complaint

The Bureau of Construction Codes (BCC) is responsible for the investigation of consumer complaints only in those areas within its regulatory authority. BCC has authority to review and investigate licensing complaints against electricians, mechanical contractors, and plumbers. The bureau does not have statutory authority to investigate or regulate contractual issues. If a local code enforcing agency has jurisdiction over the allegations described in your complaint, the complaint will be forwarded to the local jurisdiction.

There are three levels of jurisdiction (state, county, local) for each of the code disciplines (electrical, mechanical, and plumbing). The bureau's Statewide Jurisdiction List shows the enforcing agency for all units of government in Michigan.

LOCAL (city, township, or village); the unit of government has their own code enforcement program. COUNTY; the unit of government receives code enforcement services from a county enforcing agency. STATE; the Bureau of Construction Codes is responsible for code enforcement in that unit of government.

If code activities for your unit of government are enforced at the local or county level, you should first contact the local enforcing agency to see if the matter can be resolved before submitting a complaint to the state. When filing a complaint that alleges code violations, you must contact the local code enforcement official and request a signed inspection report verifying construction code violations.

To file a complaint, please submit the following information. KEEP COPIES OF ALL DOCUMENTS SENT TO THE BUREAU.

•A completed Statement of Complaint form, letter, or email in which you fully describe the factual basis for the allegation. This form is located on our website www.michigan.gov/bcc.

•Copies of any correspondence you sent or hand delivered to the respondent.

•Copies of any written response received from the respondent. If you received a verbal response only, indicate who you spoke with, what you were told and the date.

•Copies of any documents which support your complaint which may include, but are not limited to:

Description of work performed

Notes you may have taken

Permit and inspection records from the local unit of government

Advertisements

Proof of payment for work performed (canceled check, receipt, closing statement)

Court documents if applicable

Do not include any information that you do not want to be released to the respondent, such as your social security number or other personal information. Do not send bulky material. We will request additional information if needed.

Please mail your complaint to the following address:

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes Office of Administrative Services P.O. Box 30254 Lansing, Michigan 48909 Email: bccoas@michigan.gov

You will receive a letter acknowledging receipt of your complaint. Subsequently, your complaint will be reviewed to determine if an investigation should be initiated or if additional information is required. You will receive information notifying you of the disposition of your complaint.

BCC-3015 (Rev. 03/15)

Statement of Complaint

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes/Office of Administrative Services PO Box 30254, Lansing, MI 48909 517-335-2972 www.michigan.gov/bcc E-Mail: bccoas@michigan.gov

COMPLAINT NUMBER - FOR OFFICIAL USE ONLY

Authority:	1972 PA 230, 1956 PA 217, 1984 PA 192, 2002 PA 733	LARA is an equal opportunity employer/program. Auxillary aids, services and other reasonable accommoda-
Penalty:	Failure to provide the information may result in denial of your request,	tions are available upon request to individuals with disabilities.

NOTE: The Bureau does not assist with reimbursement claims due to contractual disputes.

Instructions to the Complainant:

•Please read form in its entirety before completing.

•Be sure to sign and date complaint form.

•Mail form and all applicable attachments to the address listed above.

The Bureau's jurisidiction is limited to certain matters involving consumers and licensees. It is suggested you first contact the person or firm about whom you have a complaint to see if a settlement can be reached. If this is unsuccessful, you may want to consult an attorney to determine your civil options, file an action in Small Claims Court, or contact your local prosecutor. This may be done in conjunction with or in lieu of filing a complaint with this Department.

I. Complainant Information

YOUR NAME: (Last, First, Middle Initial)	ун тул ул ул т	:	E-MAIL ADDRESS:		
YOUR STREET ADDRESS:			CITY:	STATE:	ZIP CODE:
COUNTY:			TELEPHONE NUMBER (Include Area Code):	FAX NUMBER (Inclu	de Area Code):
Preferred Method of Contact:	Regular Mail	E.	I -Mail (Note: Larger-sized responses i	I may need to be se	ent via regular mail)

II. Complaint Information

NAME OF BUSINESS OR INDIVIDUAL COMPLAINT IS REGARDING:		LICENSE NUMBER (If Kn	iown):			
CONTACT PERSON:	TELEPHONE NUMBER (Include Area Code):	COUNTY:				
STREET ADDRESS:	Сіту:	STATE: MI	ZIP CODE:			
THIS COMPLAINT RELATES TO THE FOLLOWING:			***************************************			
Electrical	Mechanical					
Have you contacted the above named business or individual	Have you contacted the above named business or individual regarding your complaint?					
If yes, what was the result? (Please provide copies of any d	ocuments related to the above contact)					
	Perc 4 of 2					

Have you contacted the local unit of govern	ment responsible for code enfo	rcement?	Yes	No
If yes, what was the result?		·····		
	<u></u>	T		
NAME OF THE CODE OFFICIAL:		NAME OF LOCAL JURISDICTION:		
		l	<u></u> г	
Did you file a claim with any other agency, o	or start legal action?		Yes	No
If yes, where?	Case Number:		Current Status of Cl	aim:
				· · · · · · · · · · · · · · · · · · ·
Explain how you would like to see this comp	plaint resolved:			

III. Details of Complaint - Briefly explain your complaint. Attach additional sheets if necessary to clearly document the violations you believe have occurred.

DATE THE WORK/ISSUE OCCURRED?	HAS THE PHYSICAL EVIDENCE BEEN PRESERVED (if applicable)?			
	Yes No			
Explanation of Complaint:				

IV. Attachments Supporting Complaint - Please indicate which documents have been attached.

	Contracts/Price Quotes/Estimates Notes you have taken Permit and inspection records from the local unit of government Court documents (if applicable) Other:	Proof of payment for work performed (cancelled check, receipt, closing statement) Advertisements Clear photographs showing the alleged violation and the date photos were taken
No	te: Additional documentation may be requested to support your complaint.	

V. Signature

SIGNATURE:

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BCC-3015 (Rev. 03/15)

Page 2 of 2

DATE:

CERTIFICATE OF OCCUPANCY

Construction Code Group 240 W. Genesee Frankenmuth, MI 48734 City of Frankenmuth

"WARNA"

THIS IS TO CERTIFY that a "CERTIFICATE OF OCCUPANCY" is hereby issued in accordance with applicable 2009 Edition Michigan Construction Code series to:

Owner: LAIL. DONNA FRANKENMUTH MI 48734	
Applicant: LAIL, DONNA FRANKENMUTH MI 48734	
Address of Proposed Occupancy: 12091 E Tuscola	
Tax I.D: 03-11-6-25-2157-005	
Building Use: R-3	
Type of Construction: 5B	
Fire Supression System:	
Special stipulations and/or conditions:	

CERTIFICATE OF OCCUPANCEY IN REGARDS TO NEW HOME

This Certificate of Occupancy is issued for that structure and occupancy stated above and is void if there is any change in either the occupancy or structure.

	A	Associated Permits	
PB150056			
PE150092			
PM150116			
PP150035			
	Michael Setzer, Building Official	<u>3-2-20</u> (1p Date	

Annual Budget

City of Frankenmuth



Fiscal Year July 01, 2016 – June 30, 2017

(Introduced 03.01.16)

2/24/2016

(Janes)

www.frankenmuthcity.com

frankennuth	City of Frankenmuth Budget 2016-17						
ACCOUNT	Building Department Fund	Actual 2013-14	Actual 2014-15	Budget 2015-16	Estimated Actual 2015-16	Manager Recommends 2016-17	Comments Adjustments
		2010 14	2014 10	2010-10	2010 10	2010 11	ridjustitiento
249-000-452-000 249-000-453-000 249-000-454-000 249-000-640-249 249-000-664-000 249-000-683-000	REVENUES Building Permits Plumbing Permits Electrical Permits Mechanical Permits Sprinkler Inspection Program Fee Interest Earnings Misc. Prior year's carryover TOTAL REVENUES	126,419 14,959 25,941 26,036 2,572 41 1,634 <u>0</u> 197,602	84,494 9,476 19,002 27,191 2,580 54 1,380 <u>0</u> 144,177	9,200 16,000 20,000 2,600 100	70,000 9,500 17,000 20,000 2,600 100 1,000 <u>0</u> 120,200	10,000 17,500 21,000 2,600 100 1,000 <u>3,050</u>	
249-215-712-000 249-215-727-000 249-215-814-000 249-215-826-000	Administration/Overhead Fringes Office Supplies Computer Services Attorney Services	7,500 5,252 1,048 712 290	8,000 5,993 782 5,972 0	5,500 1,100 1,000 250	9,000 6,000 1,100 1,100 250	6,200 1,100 1,100 250	
249-215-829-000 249.215.853.000 249-215-864-000 249-215-910-000 249-215-911-000 249-215-955-000 249-215-980-100	Membership & Dues (GIS) Telephone Charges Education & Training Insurance Workers Comp Insurance Miscellaneous Equipment	4,439 1,083 1,568 822 1,968 313	3,500 572 2,482 790 2,389 211	4,750 1,200 1,600 1,200 2,600 500 1,200	4,750 1,000 1,600 800 1,800 500 1,200	1,000 1,600 1,000 2,000 500	

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(page 27)

Sec.20

frankennigth	City of Frankenmuth Budget 2016-17						
ACCOUNT	Building Department Fund	Actual	Actual	Budget	Estimated Actual	Manager Recommends	Comments
NUMBER	DESCRIPTION	2013-14	2014-15	2015-16	2015-16	2016-17	Adjustments
			ſ				
	Building Dept						
249-380-708-000	Inspection Fees	43,730	47,886	47,000	50,000	52,000	
E Contraction of the second	Plumbing/Mechanical						
249-381-708-000	Inspection Fees	19,111	25,293	22,000	22,000	23,000	
	<u>Electrical</u>						
249-383-708-000		<u>14,305</u>	<u>13,790</u>	<u>15,000</u>	<u>15,000</u>		
	TOTAL EXPENDITURES	<u>102,141</u>	<u>117,660</u>	113,900	<u>116,100</u>	127,250	
	En la la compañía de	407 400	000 0 10	000 400	000 400		
	Fundbalance Beginning	167,188	262,649	,	289,166		
	Fundbalance Ending	262,649	289,166[289,166	293,266	290,216	

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2/23/2016

Second

CITY OF FRANKENMUTH

Frankenmuth, Michigan

Financial Statements June 30, 2015



CIERCE CONTRACTOR CONTRACTOR CONTRACTOR

Gardner | Provenzano Thomas & Luplow

City of Frankenmuth Component Unit Construction Codes Group Authority Balance Sheets June 30, 2015 and 2014

Course of

Assets		2015			
Cash	\$	286,290	\$	259,896	
Accounts Receivable		312	11	274	
Due from other funds		5		5	
Prepaid expenditures	<u>)</u>	3,258		3,547	
Total Assets	\$	289,865	\$	263,722	
<u>Liabilities and Fund Balance</u> Liabilities Accounts Payable Due to other funds Total Liabilities	\$	312 387 699	\$	674 <u>399</u> 1,073	
Fund balance-Assigned Total Liabilities and Fund Balance	\$	289,166	<u> </u>	262,649 263,722	

The accompanying notes are an integral part of these financial statements.

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City of Frankenmuth Component Unit Construction Codes Group Authority Statement of Revenues, Expenditures and Changes in Fund Balance Budget and Actual For the Year Ended June 30, 2015 (With Comparative Actual Amounts for the Year Ended June 30, 2014)

	1. <u>1</u>	2015		2014
			Over	
			(Under)	
	Budget	Actual	Budget	Actual
Revenues	÷			and a state of the
Building permits and plan reviews	\$ 65 000	\$ 84,494	\$ 19,494	\$ 126,419
Plumbing permits and plan reviews	9,200	9,476	276	14,959
Electrical permits and plan reviews	16,000	19,002	-3,002	25,941
Mechanical permits and plan reviews	20,000	27,191	7,191	26,036
Interest	100°	54	(46)	41
Miscellaneous	3,600	3,960	360	4,206
Total Revenues	113,900	144,177	30,277	197,602
				· · · · · · · · · · · · · · · · · · ·
Expenditures				
Administration	32,300	30,691	(1,609)	24,995
Building Inspection	45,000	47,886	2,886	43,730
Plumbing/Mechanical Inspections	20,000	25,293	5,293	19,111
Electrical Inspections	14,000	13,790	(210)	14,305
Total Expenditures	111,300	117,660	6,360	102,141
Evener (Deficiency) of revenues				
Excess (Deficiency) of revenues over expenditures	2,600	26,517	23,917	95,461
overlexpenditules	2,000	20,011	20,011	
Fund Balance, Beginning	262,649	262,649	· · · · · · · · · · · · · · · · · · ·	167,188
Fund Balance, Ending	\$ 265,249	\$289,166	\$ 23,917	\$ 262,649
・ アリー・ション たいしい 時期				

The accompanying notes are an integral part of these financial statements.

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Construction Code Group []Blumfield Twp. []Frankenmuth City []Frankenmuth Twp. []Tuscola Twp. 240 W. Genesee Street Frankenmuth, MI. 48734 Telephone: (989) 652-3430, x 113 Fax: (989) 652-3451 Website: www.frankenmuthcity.com

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PLAN REVIEW PAY VOUCHER

JOB NAME:	
JOB ADDRESS:	
AMOUNT OF BUILDING PERMIT:	\$
AMOUNT OF PLAN REVIEW FEE: (50% of Building Permit Fee)	\$
ADMINISTRATION: -20%: (deduct this amount from plan review)	\$
GROSS TOTAL:	\$
PAY TO BUILDING INSPECTOR: (50% of gross total)	\$
NET TOTAL: (subtracted from building inspector- divide this line by 3)	\$
PAY TO ELECTRICAL INSPECTOR: (1/3 of net total)	: \$
PAY TO MECHANICAL INSPECTOR (1/3 of net total)	٤: \$
PAY TO PLUMBING INSPECTOR: (1/3 of net total)	\$
BALANCE: (should be zero)	\$



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

April 28, 2017

Mr. Tod Fackler, Supervisor Tuscola Township 8561 Van Cleve Rd., P.O. Box 1702 Vassar, MI 48768

RE: Application to Administer and Enforce Michigan Building, Electrical, Mechanical and Plumbing Codes

Dear Mr. Fackler:

At the April 12, 2017 Construction Code Commission meeting, the Commission postponed consideration of Tuscola Township's Application to Administer and Enforce until the July 12, 2017 meeting to allow time for the Commission to review the additional documentation submitted at the meeting.

The July 12, 2017 meeting will be located at 611 West Ottawa Street, Lansing, MI 48933 in the Upper Level Conference Room #4. The public entrance is on the south side of the building. The meeting will begin at 9:30 a.m.

You or your representative are encouraged to attend the July 12, 2017 meeting should the Commission require additional information during their review. If you would like to submit additional supplemental material for your application for the Commission's review, it must be provided no later than June 7, 2017. If you have any questions, please contact the Administrative Services Division at (517) 241-9303.

 cc: Mr. Michael Setzer, Building Official Tuscola Township Clerk Tuscola County Clerk BCC Building Division BCC Electrical Division BCC Mechanical Division BCC Plumbing Division BCC Permits and Plan Review Division BCC Licensing and Complaints Division



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

1.71.72

January 18, 2017

Todd Fackler, Supervisor Tuscola Township 8561 Van Cleve Rd. P.O. Box 1702 Vassar, MI 48768

Dear Mr. Fackler:

The Tuscola Township Application to Administer and Enforce was received by the Construction Code Commission on January 11, 2017, and will be on the agenda for the April 12, 2017, Construction Code Commission meeting. You or your representative, along with enforcing agency personnel should plan to be in attendance at this meeting to respond to Commission inquiries regarding your application.

Issues to be addressed by the Commission may include, but not be limited to, the following:

- Reason for application
- Your proposed program budget
- Proposed public facing documents <u>i.e.</u>:

o Permits, correction/violation notices, certificates of occupancy, stop work orders, etc.

- Drafts of proposed fees for permits, plan reviews, inspections, etc.
- Communication process with enforcing agencies
- Registration of governmental subdivision and enforcing agency personnel
- Board of Appeal members per MCL 125.1514
- Administrative personnel and services provided i.e.:
 - o FOIA, retention schedule, location of official records/documents, etc.
- Processes for establishing fees and variance of code process
- Agency personnel are provided as necessary.
- Plan review services are provided and timely field inspection services will be provided.
- Access to the codes & standards for which you have applied to administer & enforce.
- Your understanding of the Administration and enforcement of 1972 PA 230 (the Act) and the state construction code, pursuant to Section 8b(6) of the Act.

If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

Dianne Barmes, Administrative Manager Licensing and Complaints Division

Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer

Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

TUSCOLA TOWNSHIP TUSCOLA COUNTY, MICHIGAN

NOTICE OF ADOPTION OF ORDINANCE

TO: THE RESIDENTS AND PROPERTY OWNERS OF THE TOWNSHIP OF TUSCOLA, TUSCOLA COUNTY, MICHIGAN AND ANY OTHER INTERESTED PERSONS:

PLEASE TAKE NOTICE that the following is a summary of Tuscola Township Ordinance No. 2016-1, which was adopted by the Tuscola Township Board on September 20, 2016:

<u>SECTION 1.</u> <u>ASSUMPTION OF ADMINISTRATION AND ENFORCEMENT</u> <u>RESPONSIBILITY</u>. Tuscola Township assumes responsibility for the administration and enforcement within its jurisdiction of Act 230 of the Public Acts of Michigan of 1972, as amended, and the State Construction Code adopted thereunder.

<u>SECTION 2.</u> <u>DESIGNATION OF ENFORCING AGENCY</u>. The Township designates the person(s) appointed and employed by the Construction Code Group as Building Official(s) as the enforcing agency to discharge the responsibility of the Township for the administration and enforcement of the Construction Code Act, the State Construction Code and this Ordinance.

<u>SECTION 3</u>. <u>FEES</u>. The Board of the Construction Code Group is given the authority to establish by resolution a schedule of fees, rates and charges for the administration and enforcement of the aforementioned Construction Code Act, the State Construction Code and this Ordinance.

<u>SECTION 4.</u> <u>REPEAL OF CONFLICTING ORDINANCES AND SAVINGS CLAUSE</u>. All ordinances or parts of ordinances in conflict with this Ordinance are repealed; provided, however, that any proceedings pending under previous Construction Code administration in the Township shall not be invalidated by this Ordinance and may be continued under the previous administration.

<u>SECTION 5.</u> <u>SEVERABILITY</u>. The provisions of this Ordinance are severable.

<u>SECTION 6</u>. <u>EFFECTIVE DATE</u>. This Ordinance shall take effect on January 1, 2017.

PLEASE TAKE FURTHER NOTICE that the full text of this Ordinance has been posted in the office of the Tuscola Township Clerk at the address set forth below and that copies of this Ordinance may be purchased or inspected at the office of the Tuscola Township Clerk during regular business hours of regular working days following the date of this publication.

> Michelle Hicks, Clerk Tuscola Township 8805 Loren Road Vassar, MI 48768 989-871-4507



NOV 0 1 2016

OFFICE OF ADMINISTRATIVE SERVICES

TO: CONSTRUCTION CODE COMMISSION

FROM: VILLAGE OF BURLINGTON

THE VILLAGE OF BURLINGTON IS ENTERING INTO A CONTRACT WITH SAFEBUILT INC. TO PROVIDE FULL SERVICE, FULL TIME BUILDING DEPARTMENT SERVICES TO OUR COMMUNITY. WE BELIEVE THIS WILL IMPROVE THE RESPONSE TIME FOR INSPECTION SERVICES SINCE THEY OFFER A NEXT BUSINESS DAY INSPECTIONS. SAFEBUILT WILL PROVIDE THESE SERVICES FROM THEIR EXISTING HUB OFFICE IN ATHENS MI WHICH IS APPROX. 10 MILES FROM THE VILLAGE. SAFEBUILT CURRENTLY SERVES 14 OTHER MUNICIPALITIES FROM THAT LOCATION.

SAFEBUILT WILL PAID 100% OF THE PERMIT FEES GENERATED TO COVER ALL EXPENSES.

SEE ATTACHED FEE SCHEDULE FROM SAFEBUILT AS ADOPTED BY THE VILLAGE. WE ANTICIPATE APPROX. \$2,500 IN ANNUAL PERMIT REVENUE WHICH WILL GENERATE \$2,500 IN EXPENSES FROM SAFEBUILT.

THE BUILDING OFFICIAL (GLENN LINDSEY REG. # 4936) WILL REPORT DIRECTLY TO THE VILLAGE PRESIDENT. ALL ENFORCING AGENCY PERSONNEL ARE PUBLIC ACT 54 REGISTERED.

SAFEBUILT INC. HAS ACCESS TO THE CODES AND STANDARDS NEEDED TO ADMINISTER AND ENFORCE THROUGH SHARED CODES AND STANDARDS WITHIN THEIR MICHIGAN LOCATIONS.

PLEASE ALSO FIND ATTACHED THE OTHER PUBLIC FACING DOCUMENTS THAT THE VILLAGE WILL BE USING.

OUR BUILDING OFFICIAL, GLENN LINDSEY WILL BE PRESENT AT THE JULY 12[™] MEETING TO ANSWER ANY QUESTIONS YOU MAY HAVE.

SINCERELY,

VILLAGE OF BURLINGTON

SAFE**built.** BUILDING & ZONING PERMIT FEE SCHEDULE

269-729-9254 (OFFICE) 269-729-9254 (FAX) ATHENSMI@SAFEBUILT.COM (EMAIL) WWW.CORNERSTONEMI.NET (WEBSITE)

RESIDENTIAL BUILDING PERMITS	
1 & 2 STORY STICK BUILT HOMES ON BASEMENT OR CRAWL SPACE	\$355.00*
5 INSPECTIONS (FOOTING, BACKFILL, FRAMING, ENERGY CODE, FINA	L) *
1 & 2 STORY STICK BUILT HOMES ON SLAB	\$284.00*
4 INSPECTIONS (FOOTING, FRAMING, ENERGY CODE, FINAL)	
HUD OR PREMANUFACTURED HOME ON BASEMENT OR CRAWL SPACE	\$213.00*
3 INSPECTIONS (FOOTING, BACKFILL, FINAL)	
HUD OR PREMANUFACTURED HOME ON SLAB	\$213.00*
3 INSPECTIONS (FOOTING, TIEDOWN, FINAL)	
HUD OR PREMANUFACTURED HOME IN MOBILE HOME COMMUNITY W/EXISTING	G FOUNDATION \$142.00*
2 INSPECTIONS (TIE DOWN, FINAL)	
POLE BARN UNFINISHED	\$142.00*
2 INSPECTIONS (FOOTING, FINAL)	
POLE BARN FINISHED	\$213.00*
3 INSPECTIONS (FOOTING, FRAMING, FINAL)	
ACCESSORY STRUCTURE 200 SQ FT AND UNDER	ZONING PERMIT ONLY - NO BLDG. PERMIT REQUIRED
ACCESSORY STRUCTURE 201 SQ FT - 600 SQ FT	\$ 71.00*
1 INSPECTION (FINAL)	
ACCESSORY STRUCTURE 601 SQ FT AND OVER	\$142.00*
2 INSPECTIONS (FOOTING, FINAL)	
DECK /PORCH SERVING AS MEANS OF EGRESS (POINT OF EXIT AND ENTRY)	\$142.00*
2 INSPECTIONS (FOOTING, FINAL)	
DECK /PORCH NOT SERVING AS MEANS OF EGRESS	\$ 71.00*
1 INSPECTION (FINAL)	
ROOFING & RESHINGLING (ENFORCED PER MUNICIPALITY REQUEST)	1 INSPECTION (FINAL) Re Shingle \$ 71.00
2 INSPECTIONS (ROUGH-inspected when boards are off, FINAL)	Re Shingle & Roofing Board Replacement \$142.00
SWIMMING POOLS	CALL OUR OFFICE
ZONING PERMIT	\$ 61.00
COMMERCIAL BUILDING PERMITS	PRICED BY THE BLDG. INSPECTOR**
ASK FOR 3 TO 4 SETS OF PRINTS STAMPED, SEALED, & SIGNED BY A STATE O	F MICHIGAN LICENSED ARCHITECT OR ENGINEER

ALL COMMERCIAL JOBS ARE SUBJECT TO AN \$86.00 ADMINISTRATIVE FEE

USE GROUP	UNIT COST/PER SQ. FT.	USE GROUP	UNIT COST/PER SQ. FT.	
A-1	\$0.56	I-3	\$0.50	(COMMERCIAL ONLY)
A-2, A-3, A-4	\$0.40	M	\$0.30	FOR ESTIMATING PURPOSES USE
A-5	\$0.35	R-1	\$0.37	THE FOLLOWING FORMULA:
В	\$0.36	R-2	\$0.32	SQ. FT. OF PROJECT
ε	[•] \$0.39	S-1, S-2, U	\$0.19	X UNIT COST
F-1, F-2, H	\$0.21	All Groups Remodel	\$0.12	= SUBTOTAL +
l-1	\$0.35	All Groups Demo	\$0.07	\$86.00 APPLICATION FEE
I-2, I -4	\$0.55	Roofing	\$0.06 <over 8k="" ft=".03/Sq" ft<="" sq="" td=""><td>= TOTAL</td></over>	= TOTAL

Zoning Abbrovel: ALL BUILDING PROJECTS REQUIRE ZONING APPROVAL FROM THE MUNICIPALITY'S ZONING ADMINISTRATOR. IF WE PROCESS THE ZONING, THE "ZONING PERMIT" CHARGE DEPICTED ABOVE IS APPLICABLE. IF WE DON'T, THE CHARGE IS NOT APPLICALBE AND APPLICANT MUST PROVIDE PROOF OF ZONING APPROVAL. NOTE: ANY RESIDENTIAL STRUCTURE WITH 3,500+ SQ. FT. OF OCCUPIABLE SPACE WILL REQUIRE 3 TO 4 COMPLETE SETS OF STRUCTURAL, ELECTRICAL, MECHANICAL AND PLUMBING PRINTS SIGNED, SEALED AND STAMPED BY A STATE OF MICHIGAN LICENSED ARCHITECT OR ENGINEER

*RESIDENTIAL PROJECT MAY REQUIRE PLAN REVIEW. SEE SEPARATE PRICING LIST LABELED "PLAN REVIEW FEE SCHEDULE"

**COMMERCIAL PROJECTS MAY REQUIRE PLAN REVIEW BASED UPON SIZE OF JOB AND SCOPE OF WORK, RATES WILL BE ESTABLISHED BY THE BUILDING INSPECTOR IN ACCORDANCE WITH A PRE-DETERMINED FEE SCHEDULE

SAFE**built**.

107 S. Capital Ave., P.O. Box 190, Athens, MI 49011 Phone: 269-729-9244 Fax: 269-729-9254 Email: <u>athensmi@safebuilt.com</u> Web Site: www.cornerstonemi.net

PLAN REVIEW FEE SCHEDULE

RESIDENTIAL PLAN REVIEW

	HUD OR PREMANUFACTURED HOME		44.00
SWIMMING POOL (INGROUND ONLY - No Plan Review on Pre-manufactured)			32.00
	NEW HOME, ADDITION, REMODEL, DECK, POLE BARN, GARAGE	UNDER 100 SQ. FT.	NONE REQUIRED
		101 SQ. FT. TO 600 SQ. FT.	32.00
		601 SQ. FT. TO 1000 SQ. FT.	44.00
		1001 SQ. FT. TO 1500 SQ. FT.	59.00
		1501 SQ. FT. TO 2000 SQ. FT.	74.00
		2001 SQ. FT. TO 2500 SQ. FT.	89.00
		2501 SQ. FT. TO 3500 SQ. FT.	104.00
		3501 SQ. FT. AND OVER	.06/SQ. FT.

3501 SQ. FT. AND UP OF OCCUPIABLE SPACE REQUIRES 4 FULL SETS OF STRUCTURAL, ELECTRICAL, PLUMBING, AND MECHANICAL PRINTS SIGNED AND SEALED BY AN ARCHITECT OR ENGINEER, LICENSED IN THE STATE OF MICHIGAN

COMMERCIAL PLAN REVIEW

FEES ARE BASED UPON SIZE OF PROJECT AND SCOPE OF WORK FOR ESTIMATING PURPOSES, USE THE SQUARE FOOTAGE OF PROJECT X PRICE PER SQ. FT. BELOW.

BUILDING	UNDER 600 SQ. FT.	\$32.00
	601 TO 1000 SQ. FT.	.057/SQ. FT.
	1001 TO 2000 SQ. FT.	.042/SQ. FT.
	2001 TO 3000 SQ. FT.	.032/SQ. FT.
	3001 TO 4000 SQ. FT.	.027/SQ. FT.
	4001 TO 5000 SQ. FT.	.024/SQ. FT.
	5001 TO 7500 SQ. FT.	.021/SQ. FT.
	7501 TO 10000 SQ. FT.	.019/SQ. FT.
	10001 AND MORE	.017/SQ. FT.
*ELECTRICAL	25% OF BLDG PLAN REVIEW	COST
*MECHANICAL	25% OF BLDG PLAN REVIEW	COST
*PLUMBING	25% OF BLDG PLAN REVIEW	COST
*BARRIER FREE	.014 X TOTAL SQ. FT. OF BLI	DG. PROJECT
*FIRE PROTECTION	.027 X TOTAL SQ. FT. OF BL	dg. project
*PUBLIC SWIMMING POOL	.012 X TOTAL SQ. FT. OF PO	OL

*MINIMUM OF \$44.00

CONSTRUCTION BOARD OF APPEALS PROCEDURES

THE APPEAL FORM SHALL BE SUBMITTED IN SIX (6) COPIES, FILLED OUT ENTIRELY, AND SHALL BE ACCOMPANIED BY A CHECK IN THE AMOUNT OF \$400.00, MADE PAYABLE TO THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.

IN ADDITION TO THE APPEAL FORM, SIX (6) COPIES OF PLANS DRAWN TO SCALE SHOWING THE SIZE, CONSTRUCTION MATERIALS AND METHOD OF CONSTRUCTION, SHALL BE FURNISHED. THE PLANS SHALL DEPICT A CLEAR AND ACCURATE DESCRIPTION OF THE PORTION OF THE PROPOSED STRUCTURE UPON WHICH THE APPEAL IS BASED.

BUSINESS OF THE CONSTRUCTION BOARD OF APPEALS WILL BE CONDUCTED AT A PUBLIC MEETING HELD IN COMPLIANCE WITH THE **OPEN MEETINGS ACT, PA 267 OF 1976.**

THE APPELLANT SHALL BE GIVEN NOTICE OF TIME AND DATE OF THE PUBLIC HEARING NOT LESS THAN FIVE (5) DAYS PRIOR TO SUCH HEARING BY FIRST CLASS MAIL.

FAILURE OF THE APPEALANT OR HIS/HER AUTHORIZED AGENT TO APPEAR BEFORE THE BOARD AS SCHEDULED SHALL BE DEEMED AS JUSTIFIABLE CAUSE TO DISSMISS THE CASE, WITHOUT PREJUDICE, WITH NO REFUND OF THE APPEAL FEE.

THE BOARD OF APPEALS SHALL HEAR THE CASE, RENDER AND FILE THE DECISION, WITH A STATEMENT OF THE REASONS FOR THE DECISION, WITH THE ENFORCING AGENCY FROM WHOM THE APPEAL WAS TAKEN **NOT MORE THAN 30 DAYS AFTER THE SUBMISSION OF THE APPEAL.**

THE STATE CONSTRUCTION CODE ACT OF 1972 (P.A. 230 OF 1972) STATES:

SEC. 15.(1) AFTER A PUBLIC HEARING, A BOARD OF APPEALS MAY GRANT A SPECIFIC VARIANCE TO A SUBSTANTIVE REQUIREMENT OF THE CODE IF THE LITERAL APPLICATION OF THE SUBSTANTIVE REQUIREMENT WOULD RESULT IN AN EXCEPTIONAL, PRACTICAL DIFFICULTY TO THE APPLICANT, AND IF BOTH OF THE FOLLOWING REQUIREMENTS ARE SATISFIED:

(A) THE PERFORMANCE OF THE PARTICULAR ITEM OR PART OF THE BUILDING OR STRUCTURE WITH RESPECT TO WHICH THE VARIANCE IS GRANTED SHALL BE ADEQUATE FOR ITS INTENDED USE AND SHALL NOT SUBSTANTIALLY DEVIATE FROM THE PERFORMANCE REQUIRED BY THE CODE OF THAT PARTICULAR ITEM OR PART FOR THE HEALTH, SAFETY, AND WELFARE OF THE PEOPLE OF THIS STATE.

(B) THE SPECIFIC CONDITION JUSTIFYING THE VARIANCE SHALL BE NEITHER SO GENERAL NOR RECURRENT IN NATURE AS TO MAKE AN AMENDMENT OF THE CODE WITH RESPECT TO THE CONDITION REASONABLY PRACTICAL OR DESIRABLE.

(2) A BOARD OF APPEALS MAY ATTACH IN WRITING ANY CONDITION IN CONNECTION WITH THE GRANTING OF A VARIANCE THAT IN ITS JUDGEMENT IS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THE PEOPLE OF THIS STATE. THE BREACH OF A CONDITION SHALL AUTOMATICALLY INVALIDATE THE VARIANCE AND ANY PERMIT, LICENSE AND CERTIFICATE GRANTED ON THE BASIS OF IT. IN NO CASE SHALL MORE THAN THE MINIMUM VARIANCE FROM THE CODE BE GRANTED THAN IS TO ALLEVIATE THE EXCEPTIONAL, PRACTICAL DIFFICULTY.

CONSTRUCTION ROARD OF A PLAN SUBALICATION

APPEAL COORDINATOR-GLENN LINDSEY PO BOX 190 ATHENS MI 49011 (269) 729-9244 PHONE (269) 729-9254 FAX

APPEAL APPLICATIONS MUST BE SUBMITTED TO SAFEbuilt Inc. AT THE ABOVE ADDRESS, FOR PROCESSING ALONG WITH PAYMENT IN THE AMOUNT OF \$400.00 MADE PAYABLE TO THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED.

REQUEST IS HEREBY MADE FOR PERMISSION TO CONSTRUCT, ENLARGE, ALTER, REPAIR, EXTEND, OR SUBSTITUTE MATERIAL IN OR ON A STRUCTURE THAT MAY BE CONTRARY TO THE PROVISIONS OF THE ADOPTED CODE OF THE MUNICIPALITY.

NAME OF APPLICANT :	· · · · · · · · · · · · · · · · · · ·
OV	VNER OR AUTHORIZED AGENT
ADDRESS:	
	PHONE:
NAME OF OWNER:	·
ADDRESS:	······································
<u>.</u>	PHONE:
LOCATION OR ADDRESS	
OF STRUCTURE:	
LIST BELOW A BRIEF DESCRIPTION OF YOUF	R APPEAL:
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ATTACH ADDITIONAL INFORMATION IF NECESSARY

BY SIGNING THIS APPLICATION, I CERTIFY THAT THE INFORMATION PROVIDED IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE. FURTHER, I UNDERSTAND MY RIGHT TO APPEAL A DECISION OF THE BOARD OF APPEALS TO THE CONSTRUCTION CODE COMMISSION. SUCH APPEAL MUST BE MADE WITHIN TEN (10) BUSINESS DAYS AFTER THE FILING OF THE DECISION WITH THE ENFORCING AGENCY OR, IN CASE OF AN APPEAL BECAUSE OF FAILURE OF A BOARD OF APPEALS TO ACT WITHIN THE PRESCRIBED TIME, AT ANY TIME BEFORE THE FILING OF THE DECISION.

SIGNATURE OF APPLICANT:	

FOR USE BY CONSTRUCTION BOARD OF APPEALS
DATE NOTICE SENT TO APPLICANT:
DATE CASE HEARD:
MEMBERS PRESENT:
OTHERS PRESENT:
ACTION TAKEN BY THE BOARD:
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SAFE**built**.

CORNERSTONE INSPECTION SVCS LLC

107 S. Capital Ave., P.O. Box 190, Athens, MI 49011

Office: 269-729-9244 Fax: 269-729-9254 Email: athensmi@safebuilt.com Website: www.cornerstonemi.net

INSPECTORS AND BUILDING BOARD OF APPEALS MEMBERS

INSPECTORS

Glenn Lindsey Reg. #4936	Building, Plan Review, Ordinance, Property Maintenance, Zoning
Steve Buller Reg. #3814	Mechanical, Building, Mechanical & Building Plan Review
Charles Girolami Reg. #2233	Plumbing, Plumbing Plan Review
Rick Hamilton Reg. #5931	Electrical, Electrical Plan Review

BUILDING BOARD OF APPEALS MEMBERS

Lonnie Smith, Mechanical Contractor

License No. 7111738

Union City, MI 49094 Home: 517-741-8175

Andy Kelley, Retired Plumbing Contractor

Bronson, MI 49028 Cell: 517-

Mike Poortenga, Builder

Colon, MI 49040 Home: 269License No. 2101151780

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CHIEF INSPECTORS AND CREDENTIALS

Glenn Lindsey Reg. #4936

Building, Plan Review, Ordinance Enforcement, Property Maintenance, Zoning

- Became registered as a Building Inspector and Plan Reviewer in 2002
- Became registered as a Building Code Official in 2007
- Zoning Administrator experience for 7 years within 10 different municipalities
- Property Maintenance and Ordinance Enforcement for 7 years within multiple municipalities
- Expert witness for court proceedings on multiple occasions
- Licensed as a Building Contractor for 12 years
- 20 years' experience in the building trade

Steve Buller Reg. #3814

Building and Mechanical, Building and Mechanical Plan Review

- Became registered as a Building & Mechanical Inspector in 1996
- Became registered as a Building Code Official in 1998
- Property Maintenance and Ordinance Enforcement since 1996 within multiple municipalities
- Expert witness for court proceedings
- 38+ years' experience in the mechanical and building trades
- Licensed as a Mechanical Contractor since 1990

Rick Hamilton Reg. #5931

Electrical and Electrical Plan Review

- 39+ years' experience in the electrical trade
- 31 years' specialty experience working with commercial and industrial electrical applications
- Became licensed as an Electrical Contractor in 1982

Charles Girolami Reg. #2233

Plumbing, Plumbing Plan Review

- Became registered as a Plumbing Inspector and Plan Reviewer in 1989
- 39+ years' experience in the plumbing trade
- Formerly licensed as a Plumbing Contractor since 1974

PROCEDURE FOR THE ADMINISTRATION AND ENFORCEMENT OF CODE

- APPLICATIONS RECEIVED ARE REVIEWED FIRST BY THE CLERK TO ENSURE APPLICANT HAS COMPLETED NECESSARY INFORMATION. SHOULD APPLICANT BE A LICENSED CONTRACTOR, A SEPARATE FORM IS COMPLETED (SEE ATTACHED, "CONTRACTOR REGISTRATION FORM") WHEREUPON CLERK VERIFIES CONTRACTOR LICENSE(S) IS ISSUED BY THE STATE OF MICHIGAN AND CURRENT. PHOTO IDENTIFICATION IS REQUESTED BY CLERK. CLERK WILL ALSO ACCEPT PLANS FOR THE PROJECT, IF APPLICABLE.
- PRICING FOR RESIDENTIAL PROJECTS IS DETERMINED BY THE CLERK AND PAYMENT IS ACCEPTED WITH CHECKS MADE PAYABLE TO THE MUNICIPALITY IN WHICH THE PROJECT IS LOCATED. PRICING FOR COMMERCIAL PROJECTS IS NOT DETERMINED NOR COLLECTED AT THIS TIME.
- CLERK INPUTS DATA FOR PERMIT AND CONTRACTOR REGISTRATION INTO A COMPUTER EQUIPPED WITH PERMIT TRACKING SOFTWARE
- CLERK WILL FILE COMPLETED "CONTRACTOR REGISTRATION FORM" (IF APPLICABLE) WITHIN A SEPARATE
 ALPHABETICAL OFFICE FILING SYSTEM
- IF A COMMERCIAL PROJECT, PLANS AND APPLICATION ARE REVIEWED BY THE CODE OFFICIAL THEN PRICING IS DETERMINED.
 - IF VIOLATIONS EXIST WITHIN THE PLANS, CODE OFFICIAL WILL CONTACT THE APPLICANT TO ADVISE OF REVISIONS NEEDED, WHEREUPON APPLICANT IS REQUIRED TO SUBMIT REVISED PLANS
 - CODE OFFICIAL REVIEWS REVISED PLANS
- APPLICANT IS NOTIFIED OF PRICE AND READINESS OF PERMIT WHEREUPON PERMIT IS ISSUED ONCE PAYMENT IS
 RECEIVED
- THE CLERK PREPARES AN ADDRESS- LABELED FILE FOLDER TO KEEP WITHIN THE OFFICE FILING SYSTEM. REFERRED TO AS A 'STREET FILE' HEREAFTER.
 - FOLDER IS FILED IN ALPHABETICAL ORDER AS TO STREET LOCATION. CONTAINED WITHIN THE FOLDER IS CHRONOLOGICAL INFORMATION PERTAINING TO SITE.
- CONTAINED WITHIN THE PRINTED PERMIT, APPLICANT IS NOTIFIED OF; HOW MANY, WHAT KIND OF, AND IN WHAT ORDER, INSPECTIONS SHOULD BE REQUESTED. THE TOLL FREE NUMBER FOR APPLICANT TO CALL FOR INSPECTION IS ALSO PRINTED ON THE ISSUED PERMIT.
- ONCE INSPECTION IS REQUESTED BY APPLICANT, INSPECTOR VISITS SITE AND REPORTS HIS FINDINGS ON A "FIELD INSPECTION REPORT" (COPY ATTACHED A TRUE F.I.R. IS CARBONED).
 - A COMPLETED COPY OF THE F.I.R. REMAINS ON SITE AND ORIGINAL IS PROVIDED TO THE OFFICE FOR STREET FILE
 - IF VIOLATIONS EXIST, THE INSPECTION IS NOTED AS 'PENDING'. THE VIOLATED CODE NUMBER AND DEFINITION ARE SPECIFIED AND A REINSPECTION FEE IS NOTED AS BEING DUE. REINSPECTION FEES MUST BE RECEIVED BY THE OFFICE BEFORE A REINSPECTION REQUEST FROM THE APPLICANT WILL BE CONSIDERED.
 - IF VIOLATIONS DO NOT EXIST, THE INSPECTION IS NOTED AS 'APPROVED'
- ONCE ALL PERMITS ASSOCIATED WITH A BUILDING PROJECT HAVE BEEN APPROVED FOR FINAL, A CERTIFICATE OF OCCUPANCY WILL BE ISSUED.
 - O CLERK WILL GENERATE A PRINTED CERTIFCATE USING THE PERMIT TRACKING SOFTWARE
 - BUILDING CODE OFFICIAL WILL REVIEW AND SIGN CERTIFICATE
 - COPY OF SIGNED CERTIFICATE IS MADE ORIGINAL IS MAILED TO APPLICANT AND COPY IS FILED WITHIN STREET FILE.
 - STREET FILES ARE KEPT INDEFINATELY BY OFFICE OR ARE PROVIDED TO MUNICIPALITY UPON REQUEST

SAFEBUILT, INC. 107 S. Capital Ave., P.O. Box 190, Athens, MI 49011 Office: 269-729-9244 Fax: 269-729-9254 Fax: athensmi@safebhuilt.com Web Site: www.cornerstonemi.net

INSPECTION SCHEDULING PROCESS

AFTER A PERMIT IS ISSUED, A COPY IS MAILED TO THE APPLICANT. LOCATED AT THE TOP CENTER AND THE BOTTOM RIGHT OF THE PERMIT, IS A TOLL FREE INSPECTION SCHEDULING PHONE NUMBER. THIS IS A 24-HOUR, 7 DAYS PER WEEK, INSPECTION SCHEDULING HOTLINE WHICH IS 877-721-9266.

- IF YOU CALL FOR INSPECTION ON A BUSINESS MORNING, BEFORE 7:00AM, THE INSPECTOR WILL BE ON SITE THE SAME DAY
- IF YOU CALL FOR INSPECTION ON A BUSINESS MORNING, AFTER 7:00AM, THE INSPECTION WILL BE SCHEDULED FOR THE FOLLOWING BUSINESS DAY
- YOU MAY ALSO CALL THE LINE SEVERAL DAYS IN ADVANCE TO NEEDING YOUR
 INSPECTION, BUT IN THIS CASE, PLEASE BE SURE TO LEAVE A SPECIFIC DATE FOR WHICH YOU ARE
 REQUESTING AN INSPECTION
- SHOULD THE INSPECTION SITE BE SECURE AND/OR SPECIAL ENTRY INSTRUCTIONS ARE IN ORDER, CONVEY SUCH INSTRUCTIONS ON THE INSPECTION LINE WHEN YOU REQUEST YOUR INSPECTION (I.E. KEY HIDDEN IN J-CHANNEL AT SOUTH ENTRY DOOR OR BACK DOOR UNLOCKED, ETC.)
- WE CANNOT COMMIT TO AN EXACT TIME OF INSPECTION, THOUGH WE CAN COMMIT TO A SPECIFIC DATE
- IF AN INSPECTION REQUEST CANNOT BE MET, OUR OFFICE WILL CALL YOU IMMEDIATELY TO MAKE OTHER ARRANGEMENTS
- INSPECTIONS TAKE PLACE BETWEEN THE HOURS OF 8:00AM AND 5:00PM, UNLESS PRIOR AND OTHERWISE ARRANGED
- PLEASE DO NOT ATTEMPT TO SCHEDULE AN INSPECTION BY CALLING AN INSPECTOR'S CELL PHONE NUMBER - YOUR INSPECTION WILL NOT OCCUR

SAFE**DUIIT.** INSPECTION REPORT

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PERMIT#		JURISDICTION			
Date of Inspection		Inspector			Phone No. <u>(269) 729-9244</u>
Property Address					
Owner	Pho	ie No.	Contractor	r	Phone No.
CALL F	OR REINSPECTI	ON (877) 721-9266	TOLL FREE	E 24 HOUR INSP	ECTION LINE
 □ BUILDING □ Progress □ Footing □ Backfill □ Framing □ Energy Code □ Final □ Other □ Approved □ Pending 	 DEMO Progress Utilities Final Other Approved Pending 	 ELECTRIC Progress Service Undergr Overhea Rough in Final Other Approved Pending 	ound d	MECHANICAL Progress Underground Rough in Final Tank Other Approved Pending	 PLUMBING Progress Service Water Sewer Underground Rough in Final Other Approved Pending
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107 S. Capital Ave., P.O. Box 190, Athens, MI 49011

Office: 269-729-9244 Fax: 269-729-9254 Email: athensmi@safebuilt.com Website: www.cornerstonemi.net

CURRENTLY PROVIDING INSPECTION SERVICES TO THE FOLLOWING MUNICIPALITIES

- City of Albion
- Village of Athens
- ***** Township of Burlington
- ***** Township of Burr Oak
- Village of Burr Oak
- Village of Centreville
- City of Coldwater
- Township of Colon
- Village of Homer
- NHBP (Nottawaseppi Huron Band of the Potawatomi)
- Township of Sherwood
- Township of Tekonsha
- Village of Tekonsha
- City of Three Rivers

SAFEbuilt, INC. 107 S. CAPITAL AVE., P.O. BOX 190, ATHENS, MI 49011 OFFICE: 269-729-9244 FAX: 269-729-9254

EMAIL: athensmi@safebuilt.com

WEBSITE: www.cornerstonemi.net Authority: 1972 PA 230 Completion: Mandatory to obtain permit Penalty: Permit cannot be issued

Permit #	
Fee	
Method of Payment	

Receipt # _____

MAKE CHECK PAYABLE TO THE MUNICIPALITY IN WHICH YOUR PROJECT IS LOCATED

BUILDING PERMIT & PLANS EXAMINATION APPLICATION

I. Project Infe	ormation		an a			
JOB Address			Name of Ov	vner		
Name of City, Village or Towns	hip in which job is loc	ated:	1	County		Zip Code
	Township Ol					
Between	.	And				
II. Identificati						All Children and Antonio a Antonio and Antonio and Antonio Antonio and Antonio and Antonio Antonio antonio antonio and Antonio and Antonio antonio antonio Antonio antonio antonio Antonio antonio antonio Antonio antonio antonio Antonio antonio antonio Antonio antonio antonio Antonio antonio antonio antonio antonio antonio anto
A. Owner or Less	20			alaria di basaria.		
Name		Address			City	
State, Zip	Talanhana	Work/Cell Pho		Fax	. I	Email
State, Lip	Telephone	work/ceii Pho	ne	rax		
B. Contractor						
Name	<u></u>	Address		<u> </u>	City	
State, Zip	Telephone	Work/Cell Pho	ne .	Fax		Email
				L		
Builders License #	Exp	piration Date	Federal Em	ployer ID # (or re	ason for exe	mption)
Workers Comp Insurance Carr	ier (or reason for exe	mption)	MESC # (or	reason for exemp	tion)	
C. Architect or En	gineer					
Name		Address			City	
	1					1
State, Zip	Telephone	Work/Cell Pho	ne	Fax		Email
			<u>,</u>			
License #			Expiration	Date		
	provement				ni di Si Sildiani.	
() New () Addition	() Interior Altera () Exterior Altera			l Roofing Only ing Re-Deck &		() Foundation Only () Demolition
() Siding Only	0	Pre-manufactured	<u> </u>	ing Re-Deck &	~	() Special Inspection
			0,1001	ing siningles of		O special inspection
A. Residential	Jse of Building					en de la composition de la composition En la composition de l
() One Family Home	<u></u>	Deck/Porch <u>Circle On</u>	e (Attached	(Detached) (i	rcle One	() Pool(Above/Below Ground)
() Two Family Home						() Other
() Two Family Home () Outbuilding (Barn/Shed/Carport) <u>Circle One</u> () Other () More than Two Family Home () Garage (Attached/Detached) <u>Circle One</u> () Other					0	
B. Non-Residenti						
() Amusement		() Service Sta	ition		<u> </u>	() School, Library, Educat.
() Church, Religion	5				() Store, Mercantile	
() Industrial	() Office, Bank, Professional			() Tanks, Towers		
0 Parking Garage) Public Util				() Other

Non-Residential: Describe in det secondary school, college, paroch building is being changed, enter p	ial school, parking garag				
V. Selected Cha	racteristics of Build	ding			
A. Principal Type of	Foundation and F	rame			
Foundation: () Basement I	our/Block (Circle C	ne) () Crawl Space	Pour/Block (Circle (ne) () Piers () Other_	
		ral Steel () Reinford		Other	
B. Principal Type of					in an ann an a
		<u> </u>	<u> </u>	<u> </u>	<u> </u>
()Gas	()0il	()Electricity	()Coal	Other	
C. Type of Sewage D		<u>Uncearcy</u>			
	1500341		<u>laikki tolan na arra tetatete</u>		<u> </u>
()City Sewer	()Septic System				
D. Type of Water Su					
D. Type of water Su	рріу				
		G			
OCity Water	OPrivate Well or	Cistern			
E. Type of Mechanic					
Will there be Air Condition				ll there be Fire Suppressi	
Will there be a fire place?				fuel burned in fire place:	the second s
F. Dimensions/Dat	a (Include only pro	ject dimensions of a	altered, remodeled	or new square footage)	
Will any part of the base	nent be finished?	()Yes ()No If so, ho	ow much?	Square Feet	
Number of Stories	_	NEW OR REMODE	LED OR ALTERED I	ROJECT INFORMATION	I
Height of Project			Project L	ength Project Width	Square Feet
	– <u>Circle One</u>	Basement Area	110,000 0	ingui iroject mata	oquiterett
No. of Bedrooms	(New/Altered)	1 st Floor Area			
	_ (New/Altereu)	2 nd Floor Area			
No. of Full Baths	(Now /Altored)				
No. of Full Baths	_ (New/Altered)	3 rd Floor & Above			
	/ht / h h / h h	Outbuilding/Other			<u> </u>
No. of 1/2 Baths	_ (New/Altered)	Deck/Porch (Attach	•		
		Garage (Attached/De	tached)		
				Total Sq	<u>. Ft</u>
G. Number of Off St	reet Parking Space	s FOR COMMERC	IAL USE ONLY		n han a star and a star a s
Enclosed	•	Outdoors			
VI. Applicant Inf	ormation				
Applicant is responsible	for the payment of	all fees and charge	s applicable to this	application and must p	rovide the
following information:		J	••	•	
Name	Address			City	
Strate Win G 1		<u>. </u>			
State, Zip Code	Telephone (inclu	ding area code}	Federal E	mployer ID# (or reason for exer	nption)
I hereby certify that the propo application as his/her author this application is accurate to	ized agent, and we agr	ee to conform to all app			
Section 23a of the state constructi this state to persons who are to pe					
SIGNATURE OF APPLICA				DATE:	
SIGNALOND OF AFFLICA				UAIB.	
		2			

This Department will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc.., under the Americans with Disabilities Act, you may make your needs known to this agency.

VII. Local Gov	ernment Agency to Com	plete This Sect	lon				
ENVIRONMENTAL CONTROL APPROVALS							
	Required	Approved	Date	Number	By		
Zoning	() Yes () No						
Soil Erosion	() Yes () No						
Flood Zone	() Yes () No						
Water Supply	() Yes () No						
Septic System	() Yes () No						
Driveway	() Yes () No						
VIII. Validatio	n-For Department Use O	aly					
Use Group		_	Review to be Performed _	<u></u>			
Type of Construction		_	Number of Inspections	<u></u>			
Square Feet		_	Bldg Permit Fee	Plan Exam	Fee		
Type of Foundation							
Approval Signature:							
Title			Date				

THIS APPLICATION IS FOR BUILDING PROJECTS - BOTH RESIDENTIAL AND COMMERCIAL

ISSUED PERMITS EXPIRE 180 DAYS FROM THE ISSUED DATE. NO REFUNDS WILL BE GIVEN FOR EXPIRED PERMITS. AN ADMINISTRATIVE FEE OF \$71.00 AS WELL AS THE COST OF PLAN REVIEW (IF APPLICABLE) WILL BE RETAINED FOR CANCELLED/TERMINATED PERMITS OR APPLICATIONS.

ALL COMMERCIAL BUILDING PERMITS ARE SUBJECT TO AN \$86.00 APPLICATION FEE. COMMERCIAL BUILDING PERMIT FEES ARE CALCULATED BY THE BUILDING INSPECTOR.

WORK THAT IS STARTED WITHOUT A PERMIT MAY BE SUBJECT TO A \$71.00 VIOLATION FEE IN ADDITION TO THE REQUIRED PERMIT FEE

REINSPECTIONS OF DOCUMENTED CODE VIOLATIONS ARE SUBJECT TO A \$71.00 REINSPECTION FEE - PAYABLE PRIOR TO SCHEDULING THE REINSPECTION

MAKE CHECK PAYABLE TO THE MUNICIPALITY IN WHICH YOUR PROJECT IS LOCATED

RETURNED CHECKS ARE SUBJECT TO FEES IN ACCORDANCE WITH THE APPROPRIATE MUNICIPALITY'S RETURNED CHECK POLICY.

This Department will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc.,, under the Americans with Disabilities Act, you may make your needs known to this agency.

3

VAL DULLY IIV.	
107 S. CAPITAL AVE., P.O. BOX 190, ATHENS, MI 49011	
OFFICE: 269-729-9244 FAX: 269-729-9254	
INSPECTION SCHEDULING: 877-721-9266	
EMAIL: athensmi@safebuilt.com	
WEBSITE: www.cornerstonemi.net	
Authority: 1972 PA 230	
Completion: Mandatory to obtain permit	
Penalty: Permit cannot be issued	

|--|--|

Fee _____ Method of Payment _____ Receipt # _____

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MAKE CHECK PAYABLE TO THE MUNICIPALITY IN WHICH YOUR PROJECT IS LOCATED

RESIDENTIAL ELECTRICAL PERMIT APPLICATION

JOB Address		Has a building permit been obtained for this project? () Yes () No () Not Required						
Name of Owner	Nar	Name of City, Village or Township in which job is located: Comparison OCity OVillage OTownship OF: Comparison						
Owner Telephone	- U		<u> </u>					
II. Contractor/Homeowner Informat	ton							
()Contractor () Owner	an ang in the second		Contractor License #		Expiration Date			
Address			Master License #		Expiration Date			
City	State	Zip		Email				
Telephone	Work/Cell		·	Fax				
Federal Employer ID # (or reason for exemption)	Workers Comp	Ins Carrier (o	r reason for exemption)	MESC # (c	or reason for exemption)			
III. Type of Job								
	Power Compar		Request/Work	: Order #				
Single Family () New	() Service Only	() Pr	Premanuf. Home Setup (State Approved)		O Accessory Building			
() Alteration () Spe		ecial Inspection () HUD Mobile Home Setup			() Other			
IV. Plan Review Required								
Plans and specifications must be submitted when t	he wiring or alter	ation to an ele	ctrical system is over 400 at	nps and is in	excess of 3,500 square feet in all			
buildings.								
What is the rating of the service or feeder in amper	e?		What is the building size	in square fee	et?			
Have plans been submitted?yes	nonot i	required						
Plans are required for all building types and shall be prepa as amended, and shall bear that architect's or engineer's si	red by or under the gnature and seal, ex	direct supervisi	on of an architect or engineer li	censed pursua	nt to Act No. 299 of the Public Acts of			
 When the electrical system rating does not exc 		•	ot over 3.500 square feet in area					
 Work completed by a governmental subdivision 	•	-	•					
	on or state agency to		*13,007.00		na presidental de casa presidenta de la casa da compositiona da compositiona de la compositiona de la composit			
V. Signature								
Section 23a of the State Construction Code Act or requirements of this state relating to persons w								
			••••••••••••••••					
are subjected to civil fines.	wner signature	indicates con	npliance with Section VI, H	lomeowner	Affidavit) Date			
are subjected to civil fines. Signature of Contractor or Homeowner (Homeo	-							
are subjected to civil fines. Signature of Contractor or Homeowner (Homeo VI. Homeowner Affidavit: I herby certif which I am living or about to occup covered up, or put into operation u	y the electrical w y. All work shall	ork described be installed in	on this permit application s accordance with the Michig	hall be instal jan Blectrica	lled by myself in my own home in I Code and shall not be enclosed,			

RESIDENTIAL ELECTRICAL PERMIT FEE & ITEMIZATION GRID

Permit fee is based upon the number of inspections required (\$71.00 per inspection) Multiply Number of **Inspections** from Grid Below _____x \$71.00/each = _____ (Total Permit Fee)

	QTY		QTY
Service		K.V.A & H.P.	
through 200amp		Units up to 20	
over 200amp, through 600amp		Units 21 to 50 K.V.A. or H.P.	
over 600amp, through 800amp		Smoke Detectors	
over 800 amp, through 1200amp		Up to 10 devices	
Circuits		11 to 20 devices	
Lighting Fixtures (per 25)		Data/Telecommunication Outlets	
Dishwasher		1-19 devices	
Furnace-Unit Heater		20+ devices	
Air Conditioner		MISC. (INDICATE BELOW ITEMS(S) BEING INSTALLED)	-
Water Heater			
Subpanel		Inspections (Add QTY column & transfer # above)	
Electrical-Heating Units (baseboard)	-	Temporary Service	
Power Outlets (ranges, dryers, etc)		Service	
Feeders-Bus Ducts, etcper 50 feet		Underground	
Mobile Home Park Site		Rough-In	
Conduit Only or Grounding Only		Re-Rod Grounding	
Pool Bonding/Whirlpool Tub		Special/Safety Inspection	
Generator		Final	
Solar Panel(s)		Additional Inspection	
		Other – Indicate Here:	

THIS APPLICATION IS FOR RESIDENTIAL ELECTRICAL PROJECTS

ISSUED PERMITS EXPIRE 180 DAYS FROM THE ISSUED DATE. NO REFUNDS WILL BE GIVEN FOR EXPIRED PERMITS. AN ADMINISTRATIVE FEE OF \$71.00 WILL BE RETAINED FOR **CANCELED/TERMINATED PERMITS OR APPLICATIONS.**

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MAKE CHECK PAYABLE TO THE MUNICIPALITY IN WHICH YOUR PROIECT IS LOCATED

RETURNED CHECKS ARE SUBJECT TO FEES IN ACCORDANCE WITH THE APPROPRIATE MUNICIPALITY'S RETURNED CHECK POLICY

2

This Department will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

SALEDUIR, INC.
107 S. CAPITAL AVE., P.O. BOX 190, ATHENS, MI 49011
OFFICE: 269-729-9244 FAX: 269-729-9254
INSPECTION SCHEDULING: 877-721-9266
EMAIL: athensmi@safebuilt.com
WEBSITE: www.cornerstonemi.net
Authority: 1972 PA 230
Completion: Mandatory to obtain permit
Penalty: Permit cannot be issued

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Fee _____ Method of Payment _____ Receipt # _____

MAKE CHECK PAYABLE TO THE MUNICIPALITY IN WHICH YOUR PROJECT IS LOCATED

COMMERCIAL ELECTRICAL PERMIT APPLICATION

	Has	Has a building permit been obtained for this project?						
	OY	() Yes () No () Not Required						
Name of Owner			age or Township		ob is located: OF:	County		
Owner Telephone	<u></u>		inge () ioui	15111				
I. Contractor Information								
Name		<u> </u>	Contractor Lic	ense #		Expiration Date		
Address			Master License	e #		Expiration Date		
City	State	Zip			Email	L		
Telephone	Work/Cell				Fax			
Federal Employer ID # (or reason for exemption)	Workers Comp	Ins Carrier (o	r reason for exem	nption)	MESC # (d	or reason for exemption)		
III. Type of job								
Commercial () New	() Service Only	/ () Acco	essory Building	Power Co	ompany	er		
() Alteration	() Special Inspe	al Inspection () Other Request/Work Or			Work Order	#		
IV. Plan Review Required								
Plans and specifications must be submitted when	the wiring or alter	ation to an ele	ctrical system is (over 400 a	mps and is in	excess of 3 500 square feet in all		
			cu icar system is c		inpo una io u	excess of 5,500 square reet in an		
What is the rating of the service or feeder in ampe	re?		Ē		-	t?		
buildings.			Ē		-			
buildings. What is the rating of the service or feeder in ampe Have plans been submitted?yes Plans are required for all building types and shall be prep	_nonot r ared by or under the	required	What is the bui	ilding size	in square fee	t?		
buildings. What is the rating of the service or feeder in ampe Have plans been submitted?yes Plans are required for all building types and shall be prep as amended, and shall bear that architect's or engineer's s	_nonot r ared by or under the signature and seal, ex	required direct supervisi scept:	What is the bui	ilding size r engineer li	in square fee	t?		
buildings. What is the rating of the service or feeder in ampe Have plans been submitted?yes Plans are required for all building types and shall be prep as amended, and shall bear that architect's or engineer's s	_no not r ared by or under the signature and seal, ex acceed 400 amps and t	required direct supervisi scept: the building is no	What is the bui on of an architect or ot over 3,500 square	ilding size r engineer li	in square fee	t?		
buildings. What is the rating of the service or feeder in amperent term of term	_no not r ared by or under the signature and seal, ex acceed 400 amps and t	required direct supervisi scept: the building is no	What is the bui on of an architect or ot over 3,500 square	ilding size r engineer li	in square fee	t?		
buildings. What is the rating of the service or feeder in amperent the service or feeder in a more serv	_no not r ared by or under the signature and seal, ex acceed 400 amps and t	required direct supervisi scept: the building is no	What is the bui on of an architect or ot over 3,500 square	ilding size r engineer li	in square fee	t?		
buildings. What is the rating of the service or feeder in amperent the service or feeder in a more serv	_no not r ared by or under the signature and seal, ex acceed 400 amps and t	required direct supervisi scept: the building is no	What is the bui on of an architect or ot over 3,500 square	ilding size r engineer li	in square fee	t?		

COMMERCIAL ELECTRICAL PERMIT FEE GRID

ALL COMMERCIAL ELECTRICAL PERMITS HAVE A MINIMUM FEE OF \$127.00 PLEASE USE THE GRID BELOW TO ITEMIZE THE JOB - ITEMIZATION IS REOUIRED

	FEE	QTY	TOTAL		FEE	QTY	TOTAL
Application Fee	\$56.00	1	\$56.00	K.V.A & H.P.			
Service				Units up to 20	\$6.00		
Through 200amp	\$10.00			Units 21 to 50 K.V.A. or H.P.	\$10.00		
Over 200 - 600amp	\$15.00			Units 51 K.V.A. or H.P. & over	\$12.00		
Over 600 - 800amp	\$20.00			Fire Alarm Systems (not smoke detectors)			
Over 800 - 1200amp	\$25.00			Up to 10 devices	\$50.00		
Over 1200amp (GFI only)	\$50.00			11 to 20 devices	\$100.00		
Circuits	\$5.00			Over 20 devices	\$5.00		
Lighting Fixtures (per 25)	\$6.00			Data/Telecommunication Outlets			
Dishwasher	\$5.00			1-19 devices	\$5.00		
Furnace-Unit Heater	\$5.00			20-300 devices	\$100.00		
Electrical-Heating Units (baseboard)	\$4.00			Feeders-Bus Ducts, etcper 50 feet	\$6.00		
Power Outlets	\$7.00			Conduit only or Grounding only	\$45.00		
Signs				Pool Bonding/Whirlpool Tub	\$10.00		
Unit	\$10.00			Inspections			
Letter	\$15.00			Special/Safety Inspection	\$71.00		
Solar Panel	\$20.00			Service (New or Upgrade-Circle One)	\$71.00		
Generator	\$15.00			Underground	\$71.00		
Smoke Detector	\$2.00			Additional Inspection	\$71.00		
Subpanel (Each)	\$10.00			Rough-In	\$71.00		
Mobile Home Park Site	\$6.00			Final Inspection	\$71.00	1	\$71.00
Recreational Vehicle Park Site	\$4.00					TOTAL	

THIS APPLICATION IS FOR COMMERCIAL ELECTRICAL PROJECTS

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CONTRACTOR REGISTRATION FORM

SAFE**built**.

107 S. Capital Ave., P.O. Box 190, Athens, MI 49011

	 Constraints 	
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18. A-	-i	

USINESS NAME:			EIN <u>or</u> SS#	
ADDRESS:	· · · · · · · · · · · · · · · · · · ·			
Number	Street Name	City		State Zip
PHONE:	FAX:		CELL:	
EMAIL:	MAIL: OWNER'S NAME:			·
	Print	ed		
	LICENSES ARE THE LEGAL LI STATE OF MICHIGAN TO BE CONTRUCT		PURPOSES OF P	
ELECTRICAL CONTRACTO	R LICENSE #	EXPIRES	MASTER#	EXPIRES
LICENSEE SIGNATURE		LICENSEE PR		
PLUMBING CONTRACTO	R LICENSE #	EXPIRES	_MASTER	EXPIRES
LICENSEE SIGNATURE		LICENSEE PR		
MECHANICAL CONTRACT	OR LICENSE #	EXPIRES		
LICENSEE SIGNATURE		LICENSEE PR		
BOILER INSTALL CONTRA	CTOR LICENSE #	EXPIRES		
		LICENSEE PR		
INSTALLER CONTRACTOR	LICENSE #	EXPIRE	s	
LICENSEE SIGNATURE		LICENSEE PR	INTED NAME	
RESIDENTIAL BLDR LICEN	<u>SE</u> #	EXPIRES	<u> </u>	
LICENSEE SIGNATURE		LICENSEE PRI		
MAINTENANCE/ALTERAT	ION LICENSE#	EXPIRES	5	
LICENSEE SIGNATURE				
CATEGORIES: _	House Wrecking	Insulation V	Vork _	Masonry
	Painting/Decorating Siding/Gutters Install	Roofing	- Pool Install	Screen/Sash Install Tile/Marble Work
_				

CERTIFICATE OF LIABILITY INSURANCE. YOUR CONTRACTOR LICENSE(S) MUST HAVE YOUR COMPANY NAME LISTED IN ORDER FOR US TO ISSUE YOU A PERMIT. YOU MAY FAX, MAIL OR E-MAIL ALL REQUESTED INFORMATION TO US.



RICK SNYDER GOVERNOR

STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

February 11, 2017

Darlene Mack Village of Burlington 215 W. Leroy Street Burlington, MI 49029

Dear Ms. Mack:

The Village of Burlington Application to Administer and Enforce was received by the Construction Code Commission on January 11, 2017, and will be on the agenda for the April 12, 2017, Construction Code Commission meeting. You or your representative, along with enforcing agency personnel should plan to be in attendance at this meeting to respond to Commission inquiries regarding your application.

Issues to be addressed by the Commission may include, but not be limited to, the following:

- Reason for application
- Your proposed program budget
- Proposed public facing documents *i.e.*:
 - o Permits, correction/violation notices, certificates of occupancy, stop work orders, etc.
- Drafts of proposed fees for permits, plan reviews, inspections, etc.
- Communication process with enforcing agencies
- Registration of governmental subdivision and enforcing agency personnel
- Board of Appeal members per MCL 125.1514
- Administrative personnel and services provided *i.e.*:
 - o FOIA, retention schedule, location of official records/documents, etc.
- Processes for establishing fees and variance of code process
- Agency personnel are provided as necessary.
- Plan review services are provided and timely field inspection services will be provided.
- Access to the codes & standards for which you have applied to administer & enforce.
- Your understanding of the Administration and enforcement of 1972 PA 230 (the Act) and the state construction code, pursuant to Section 8b(6) of the Act.

If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

Dianne Barmes, Administrative Manager Licensing and Complaints Division

Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

December 21, 2016

Darlene Mack Village of Burlington 215 W. Leroy Street Burlington, MI 49029

Dear Ms. Mack:

The Village of Burlington Application to Administer and Enforce was received by the Bureau of Construction Codes on Tuesday, December 20, 2016.

Pursuant to statutory requirements the application will be presented to the Construction Code Commission at their January 11, 2017, meeting for their review and decision on the matter. You or your representative are welcome to be in attendance at this meeting to support your application. You will be notified within 90 days of the January 11, 2017, Commission meeting of their decision.

The State of Michigan, Bureau of Construction Codes will continue to administer and enforce the Act and the Mechanical Code within the Township until the Commission renders its decision. If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

Dianne Barmes, Administrative Manager Licensing and Complaints Division Bureau of Construction Codes

Providing for Michigan's Safety in the Built Environment

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Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 E-Mail: bccoas@michigan.gov

www.michigan.gov/bcc

C. State of the second	DIVISION	THE OF GOVERNMENTAL SUBDIVISION			
Village of Burlington			Darlene Mack	an an an an Arraigh An Argan an Arraig	
ADDRESS (Streat Number and Na	115)				
215 W. Leroy St.					
dfy n		COUNTY		STATE	ZIP CODE
Burlington TELEPHONE NUMBER (Include A)	Calhoun MI 1 Code) 1 FAX NUMBER (Induse Ares Code) [FAMAIL ADDRESS		49029		
(517) 705-2222		(517) 705-2223			
Code Adoption					
1972 PA230. Attac of the act and the	ch a copy of the cer code.	atration and enforcement lified adopted ordinance	of the act and the state assuming responsibil	code in accordan ity for administra	ce with Section 8b(6) o ation and enforcemen
State Code(s) to be Er	See a start that the second second	Jectrical	Mechanical		🛛 Plumbing
and stations (;t # ************************************	
Agency personnel a	related acts and rul re provided as neces	03.	ter ny avhauaite oi na	in 2 an	er and enforce this act
 Agency personnel and Administrative services Plan review services Plan review services Timely field inspection A Board of Appeals in Have immediate acc 	related acts and rul re provided as neces as are provided. are provided. an services will be pr s in place per MCL eas to the codes & s	ea, bary. ovided. 125.1514. itandards for which you h	ave applied to administa	ır.& enforce,	
 Agency personnel at Administrative services Plan review services Timely field inspection A Board of Appeals in 	related acts and rul re provided as neces as are provided. are provided. an services will be pr s in place per MCL	ea, bary. ovided. 125.1514. itandards for which you h	ave applied to administa		
 Agency personnel and Administrative services Plan review services Timely field inspection A Board of Appeals in Have immediate acc Have immediate acc BUILDING OFFICIAL INFORMATION Certification 	related acts and rul re provided as necer set are provided. an services will be pr s in place per MCL east to the codes & s Name: Glenn L	ea, bary. ovided. 125.1514. itandards for which you h	ave applied to administa Re	ut & enforce, ogistration Numi	ber: 4936

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction codes forme you and frait approved prior to implementation by local departments of building safety.

BCC-246 (Roy. 03/15)

DEC 2 0 2016

VILLAGE OF BURLINGTON ORDINANCE NUMBER <u>2016 - 10 - 17 A</u> OF 2016

AN ORDINANCE TO DESIGNATE AN ENFORCING AGENCY TO DISCHARGE THE RESPONSIBILITY OF THE VILLAGE OF BURLINGTON UNDER THE PROVISIONS OF THE STILLE-DEROSSETT-HALE SINGLE STATE CONSTRUCTION CODE ACT, 1972 PA 230.

THE VILLAGE OF BURLINGTON ORDAINS:

SECTION 1. ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), the Village of Burlington hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building, Electrical, Mechanical, and Plumbing Codes. The Village of Burlington shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performed plan reviews and inspections shall be registered in accordance with 1986 PA 54.

<u>SECTION 2</u>. REPEAL. All ordinances or parts of ordinances inconsistent with the provisions of this ordinance are hereby repealed.

<u>SECTION 3.</u> <u>SEVERABILITY OF INVALID PROVISIONS</u>. If any provision of this ordinance shall be invalid, its invalidity shall not affect any other provisions of this ordinance that can be given effect without the invalid provision, and for this purpose the provisions of this Ordinance are hereby declared to be severable.

<u>SECTION 4.</u> <u>EFFECTIVE DATE</u>. This Ordinance shall take effect twenty (20) days after the date of passage pursuant to MCL 66.1, which publication shall take place within fifteen (15) days after the ordinance is passed, and shall be in a local newspaper of general circulation in the village. Pursuant to MCL 66.4, the Clerk is permitted to publish the Ordinance or a synopsis of the Ordinance.

This Ordinance is hereby declared to have been passed and adopted by the Village of Burlington, County of Calhoun, State of Michigan, at a regularly scheduled meeting thereof duly called and held on this <u>1746</u> day of <u>October</u>, 2016, and will become effective on the <u>loth</u> day of <u>Novernber</u>, 2016.

but E Ul

Robert Weaver, Jr., Village President

ATTEST:

Conc.

Darlene Mack, Village Clerk

DEC & a 2016

RECEIVED

OFFICEOF ADMINISTRATIVE SERVICES



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

January 18, 2017

Richard Pierce Village of Emmett 3119 Main Emmett, MI 48022

Dear Mr. Pierce:

The Village of Emmett Application to Administer and Enforce was received by the Bureau of Construction Codes on Tuesday, January 12, 2017.

Pursuant to statutory requirements the application will be presented to the Construction Code Commission at their April 12, 2017, meeting for their review and decision on the matter. You or your representative are welcome to be in attendance at this meeting to support your application. You will be notified within 90 days of the April 12, 2017, Commission meeting of their decision.

The State of Michigan, Bureau of Construction Codes will continue to administer and enforce the Act and the codes within the Village until the Commission renders its decision. If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

mez

Dianne Barmes, Administrative Manager Licensing and Complaints Division Bureau of Construction Codes

Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bcc • Telephone (517) 241-9302 • Fax (517) 241-9570

Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 www.michigan.gov/bcc

Authority: 1972 PA 230 Completion: Mandatory Penalty: Governmental subdivisions will not be approved to administer and enforce code(s)	accommodations are availa	ity employer/program, Auxiliary ald le upon request to individuals with d	
NAME OF GOVERNMENTAL SUBDIVISION	Richa	v (Elected Official), rd Alerce	
3/19 Main	·		
Emmett Saint	Main	STATE MI	21P CODE 48022
PELEPHONE NUMBER (Include Area Code) FAX NUMBER (Include Area 810 329-2781 810-384		-MAIL ADDRESS	
A. Code Adoption			
□ To assume responsibility for the administration and enforcer 1972 PA 230. Attach a certified copy of the adopted or ment of the act and the code.			
State Code(s) to be Enforced	·		,
Building 🛛 🕅 Mechanical	Electr		Plumbing
B. Enforcing Agency Personnel			
 Attach copies of the valid registrations for all code officials/ins and employed by the governmental subdivision listed above. Attach all employment agreements with enforcing agency per Attach all documents verifying direct employment relationship Attach all methods and means of compensation for enforcing agency perso 	sonnel to governmental subc agency personnel	-	
Name of Inspector(s) (Attach additional speet, if necessary) Tim Wardy Paul Raicevich Daniel W. Tex Daniel W. Tex	ration Number	Catego Building Electrical Mechanical Plumbing	ries
Name of Plan Reviewer(s) Regist (Attach additional sheet, if necessary)	ration Number	Catego	ries
	-		1

JAN 12 2017

OFFICE OF ADMINISTRATIVE SERVICES

C. Enforcing Agency Responsibilities

Please submit two (2) complete copies of the Application to Administer and Enforce and all related documentation identified below tabbed and indexed.

1. Operations

- a) Department of Building Safety budget including but not limited to enforcing agency and administrative staff salaries and benefits, direct and indirect costs, overhead, including calculations and formulas utilized for development of fee schedules and determination of the level of fees for services related to administration and enforcement of 1972 PA 230
- b) Schedule of Fees
- c) Account Management for Department of Building Safety Funds
- d) Specific cost breakdown for providing Plan Reviews and Inspections
- e) Listing of Codes and Standards with written assurance that they are in your possession or immediately available to the public and your inspectors.
- f) Copies of Ordinances
- g) Hours of Operation for Department of Building Safety

2. Procedures

- a) Permit Application Review Procedures
- b) Plan Review Procedures
- c) Permit Issuance Procedures
- d) Field Inspection Procedures
- e) Code Violation/Correction Notice Procedures
- f) Certificate of Use and Occupancy Procedures
- g) Construction Board of Appeals Procedures
- h) Construction Board of Appeals Member's Names and Qualifications
- i) Floodplain and Wetlands Management Procedures
- j) Registration of Contractor Licenses Procedures
- k) Complaint Processing and Resolution Procedures

3. Forms

- ✓a) Building, Electrical, Mechanical and Plumbing Permit Application Forms
- b) Plan Review Report Form
- vc) Building, Electrical, Mechanical and Plumbing Permit Forms
- d) Field Inspection Report Forms
- e) Code Violation/Correction Notice Form
- f) Certificate of Use and Occupancy Form
- g) Construction Board of Appeals Request for Hearing Application Form
- h) Contractor License Registration Form
- Complaint Submission Form

D. Certification			
I certify the information giv	en in this application to administer an	d enforce is true and accu	rate to the best of my knowledge.
Name of Elected Official (Typ	e or Print) <u>Richard Ber</u>	Title	Village President
Signature of Elected Official	maane 10	Date	1-011

Copies of all documents, forms, policies and procedures attached to or submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

An Application to Administer and Enforce that does not include attachments and supplemental documentation shall be deemed as an incomplete submission and shall be presented to the State Construction Code Commission in accordance with Section 8b (6) of 1972 PA 230,

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Changes in enforcing agency personnel must be immediately reported to the Bureau of Construction Codes. Any changes in the approved ordinance and all procedures, forms, policies and practices must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rev. 10/11) Back

Village of Emmett 3119 Main Emmett, MI 48022-0127

State of Michigan Bureau of Construction Codes:

The Village of Emmett in Emmett Township, Saint Clair County, Michigan requests to be released from State of Michigan Building Inspections from the Department of Building & Construction Codes.

Emmett Township, inside which our Village is located has agreed to take over all building inspections, applications, billing of fees & enforcement of building codes. Emmett Township is already registered with the State, has certified Building Inspectors, Building and Safety budget and Account.

We do not have a budget or account set up for a Building Department. Emmett Township would be handling all applications, fees, permits and inspections according to their schedule. The Village would still review site plans for zoning.

Our reason for this request is that we feel local enforcement will be more expedient for our residents and help keep their building projects on schedule. At this time we feel this would be the right move for our residents.

Please contact me with any questions or concerns.

Thank you for your attention, sincerely

agent Juege

Richard Pierce, Village President Emmett, MI

(810) 329-2781 daytime phone

lecened

JAN 1 2 2017

OFFICE OF ADMINISTRATIVE SERVICES

Village of Emmett

8/12/2016

3119 Main Street Emmett, MI 48022 810-384-8801

The Village of Emmett has passed Ordinance # Article 4, 4.10 at the Council meeting of August 8th, 2016.

Synopsis: The Village of Emmett elects to administer and enforce Michigan Mechanical and Uniform Energy Codes. To issue permits, plan reviews, building inspections & occupancy permits according to Michigan State Construction Codes. Ordinance to take effect September 1st, 2016.

Full copy available at Emmett Village Hall 3119 Main, Emmett< MI 48022. Phone: Office: 810-384-8801, Clerk 810-304-2012.



JAN 1 2 2017

OFFICE OF ADMINISTRATIVE SERVICES

Village of Emmett

Ordinance Number: Article 4, 4.10

An Ordinance to designate an enforcing agency to discharge the responsibility of the Village of Emmett under the provisions of the Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230.

The Village of Emmett ordains:

Section 1. ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of the Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), the Village of Emmett hereby elects to administer and enforce the 1972 PA 230 and the Michigan Mechanical Code. The Village of Emmett shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

Section 2. REPEALS . All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

Section 3. PUBLICATION. This ordinance shall be effective after legal publication and in accordance with provisions of the Act governing same.

This ordinance duly adopted on 8-8-20/6at a regular meeting of the September 1,2016 Emmett Village Council and will become effective on ____

Signed

Richard Pierce, President, Village of Emmett

Kathleen Pratt, Clerk, Village of Emmett

Draft: May 30, 2003

Table 10-3 Site Development Requirements^A

Zoning District	Minimum Lot Area	Minimum Lot Width and Frontage ^E	Maximum Building Height	Maximum Lot Coverage	Minimum Yard Setback		
		Trendge			Front Yard	Side Yard	Rear Yard
RR Rural Residential	2 acres, except 10 acres for a farm	200 ft.	35 ft. ^B	25%	60 ft.	15 ft.	50 ft.
R-1 Suburban Residential	1 acre	100 ft.	35 ft.	30%	40 ft.	15 ft.	50 ft.
R-2 Urban Residential	<u>SFD</u> : 1 acres without public sewer, otherwise 20,000 sq. ft.; <u>TFD</u> : 1.5 acres without public sewer, otherwise 30,000 sq. ft.	100 ft. without public sewer, otherwise 75 ft.	35 ft.	35%	35 ft.	10 ft.	50 ft.
R-MHC Manufact. Hous: Comm.	See Section 10.07						
B-1 Local Business	10,000 sq. ft.	80 ft	35 ft.	70%	None Required	None Required ^C	20 ft.
B-2 General Business	2 acres	200 ft.	35 ft.	35%	50 ft.	20 ft. ^C	40 ft. ^D
l-1 Light Industrial	1 acre	200 ft.	35 ft.	50%	50 ft.	20 ft. ^C	40 ft. ^D

SFD = single family dwelling; TFD = two family dwelling; sq. ft. = square feet; 1 acre = 43,560 sq. ft.

Footnotes for Table 10-3

- A. All uses shall comply with the site development requirements in Table 10-3, unless otherwise specified by Article 11 Standards for Specific Special Land Uses, or Article 20 General Provisions. In addition, all uses shall comply with all other applicable site development provisions of this Ordinance, including, but not limited to, the following Articles: Article 15 Signs; Article 16 Off-Street Parking and Loading; Article 17 Landscaping and Screening; and Article 18 Environmental Standards.
- B. The maximum height of farm buildings and structures shall be one hundred (100) feet. All farm buildings and structures over eighty (80) feet shall be set back from a lot line a distance at least equal to one half the height of the building.
- C. Minimum setback to be increased to 20 feet in the B-1 District, and 50 feet in all other Districts, in the case where the side yard abuts a Residential District.
- D. Minimum setback to be increased to 70 feet in the case where the rear yard abuts a Residential District.
- E. The depth of a lot shall not exceed 4 times its width.

JAN 1 2 2017

Village of Emmett Zoning Ordinance
Article 10, Zoning Districts, Regulations, and Map
10.0

OFFICE OF ADMINISTRATIVE SERVICES

EMMETT TOWNSHIP ST. CLAIR COUNTY, MICHIGAN

BUILDING PERMIT FEE SCHEDULE EFFECTIVE: 5-01-2006 ADOPTED / EFFECTIVE: 1-13-2016**

RESIDENTIAL HOUSES & ADDITIONS (up to 2000 sq. ft.):

\$ 75.00 - PLAN REVIEW FEE
\$ 100.00 - BASE PERMIT FEE, PLUS REQUIREDINSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED**
\$ 500.00 - BOND FOR NEW HOMES
\$ 500.00 - BOND FOR ADDITIONS & ALTERATIONS

HOMES 2001 to 3000 SQ. FT. :

\$ 100.00 - PLAN REVIEW FEE
\$ 125.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED**
\$ 500.00 - BOND FOR NEW HOMES
\$ 500.00 - BOND FOR ADDITIONS & ALTERATIONS

HOMES OVER 3000 SQ. FT.:

\$ 125.00 - PLAN REVIEW FEE
\$ 150.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED **
\$ 500.00 - BOND FOR NEW HOMES
\$ 500.00 - BOND FOR ADDITIONS & ALTERATIONS

POLE BUILDINGS, GARAGES & SHEDS:

\$ 35.00 - PLAN REVIEW FEE**
\$ 75.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED**
\$ 250.00 - BOND

DECKS, PORCHES, & HANDICAP RAMPS:

\$ 25.00 - PLAN REVIEW FEE**
\$ 35.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED**
\$ 250.00 - BOND
*NOTE: IF NOT INCLUDED ON ORIGINAL HOUSE PLANS.

POOLS:

\$ 25.00 - PLAN REVIEW FEE**

\$ 50.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS

\$250.00 - BOND

JAN 12 2017

OFFICE OF

BUILDING INSPECTOR: (810) 650-1714 HALL TELEPHONE: (810) 384-8070

EMMETT TOWNSHIP ST. CLAIR COUNTY, MICHIGAN

BUILDING PERMIT FEE SCHEDULE

EFFECTIVE: 5-01-2006 ADOPTED / EFFECTIVE: 1+13-2016**

TEMPORARY OCCUPANCY PERMIT:

\$ 60.00 - PER INSPECTION REQUIRED**

COMMERCIAL:

\$ 150.00 - PLAN REVIEW FEE PLUS \$25.00 PER 1000 SQ.FT., OVER 1000 SQ. FT.**
\$ 150.00 - BASE PERMIT FEE, UP TO 1000 SQ.FT., WITH ADDITIONAL CHARGE OF \$25.00 PER 1000 SQ.FT., ON BALANCE OF FOOTAGE PLUS, REQUIRED INSPECTIONS**
\$ 75.00 - PER INSPECTION REQUIRED**
\$ 1,000.00 - BOND
*NOTE: REQUIRES STAMPED DRAWINGS FROM REGISTERED DESIGN PROFESSIONAL.**

COMMERCIAL SIGNS:

\$ 25.00 - PLAN REVIEW FEE
\$ 50.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED**
\$ 250.00 - BOND

MOVING OF BUILDING:

\$ 100.00 - FEE, PLUS MILEAGE AT CURRENT RATE *NOTE: BUILDING PERMIT AND \$ 1000.00 BOND REQUIRED BEFORE BUILDING IS MOVED INTO THE TOWNSHIP.

TEMPORARY TRAILER PERMIT:

\$ 25.00 - SITE PLAN REVIEW FEE**

\$ 100.00 - BASE PERMIT FEE

\$ 60.00 - PER INSPECTION REQUIRED**

\$1,000.00 - BOND

*NOTE: BUILDING PERMIT & HOUSE BOND REQUIRED BEFORE PERMIT IS ISSUED.

DEMOLITION OF BUILDINGS :

\$ 25.00 - SITE PLAN REVIEW FEE**
\$ 10.00 - BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
\$ 60.00 - PER INSPECTION REQUIRED***

*NOTE: DEBRIS MUST BE REMOVED FROM SITE.



JAN 1 2 2017

OFFICE OF ADMINISTRATIVE OF ADMINISTRATIVE OFFICES

BUILDING INSPECTOR: (810) 650-1714 HALL TELEPHONE: (810) 384-8070

EMMETT TOWNSHIP ST. CLAIR COUNTY, MICHIGAN

BUILDING PERMIT FEE SCHEDULE EFFECTIVE: 5-01-2006 ADOPTED / EFFECTIVE: 1-13-2016**

VIOLATIONS:

- STARTING WORK WITHOUT A PERMIT: ADMINISTRATION FEES: \$400.00 - COMMERCIAL, HOUSES AND ADDITIONS \$100.00- ACCESSORY BUILDINGS STOP WORK ORDER FEE - \$60.00** UNSAFE STRUCTURES - \$60.00**

REINSPECTIONS AND ADDITIONAL INSPECTIONS:

\$ 60.00 - PER INSPECTION REQUIRED**

CANCELLED PERMITS:

- ADMINISTRATION FEE CHARGED \$ 25.00
- PLAN REVIEW FEE WILL NOT BE RETURNED
- ANY UNUSED PORTION OF THE PERMIT FEES WILL BE RETURNED**

**NOTE: "Any permit issued shall become invalid if the authorized work is not commenced within six months after the issuance of the permit, or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work."

NOTES:

BUILDING OFFICIAL MAY CONTRACT OUT PLAN REVIEW SERVICES AT THE APPLICANT'S EXPENSE.**

BUILDING OFFICIAL WILL LIST REQUIRED INSPECTIONS ON EACH PERMIT ISSUED.**

BUILDING OFFICIAL / DEPARTMENT HAS DISCRETION TO LOWER PERMIT FEES ON SMALLER PROJECTS.**

> BUILDING INSPECTOR: (810) 650-1714 HALL TELEPHONE: (810) 384-8070

JAN 1 2 2017

OFFICE OF ADMINISTRATIVE SERVICES

EMMETT TOWNSHIP ST. CLAIR COUNTY, MICHIGAN

BUILDING PERMIT FEE SCHEDULE EFFECTIVE: 5-01-200 ADOPTED / EFFECTIVE: 1-13-2016**

ZONING PERMITS:

AGRICULTURAL BUILDINGS: \$ 60.00 - PLAN REVIEW FEE **

PONDS:

- \$ 25.00 SITE PLAN REVIEW FEE**
- \$ 50.00 BASE PERMIT FEE, PLUS REQUIRED INSPECTIONS
- \$ 60.00 PER INSPECTION REQUIRED**
- \$250.00 BOND

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JAN 12 2017

OFFICE OF ADMINISTRATIVE SERVICES

医加尔特尔氏试验检试验 网络形式 医水子 网络小子

615

BUILDING INSPECTOR: (810) 650-1714 HALL TELEPHONE: (810) 384-8070

Building Application Emmett Township

11100 Dunnigan, Emmett, MI 48022

(810) 384-8070 • (810) 384-8071 • Fax: (810) 384-6138

60.00

Re-inspection Fee \$50.00. Administration fee for starting work without a Building Permit is \$400.00 includes: houses, additions, alterations, commercial structures, pre-manufactured units. \$100.00 fee for starting work without a permit for any accessory structures and demolitions.

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AUTHORITY: COMPLETION PENALTY:	P.A. 230 OF 1972. AS AMENDED MANDATORY TO OBTAIN PERMIT APPLICATION MUST BE COMPLETED SIGNED PROPER FEE ENCLOSED OR PERMIT WILL NOT BE ISSUED.	AGAIN OF R/ GIN, (BUILDING DEPT. WILL NOT DISCRIMINATE NINST ANY INDIVIDUAL OR GROUP BECAUSE RACE, SEX, RELIGION, AGE, NATIONAL ORI- , COLOR, MARITAL STATUS, HANDICAP, OR .ITICAL BELIEFS.				
	APPLICANT TO COMPLETE ALL ITEMS IN NOTE: SEPARATE APPLICATIONS MUST I FOR PLUMBING, MECHANICAL A	TO THE API	PROPRIATE DI				
I. LOCATION OF	BUILDING						
ADDRESS:			Ā	CREAGE			
CITY, VILLAGE:	EMMETT TOWNSHIP: EMMETT		COUNTY:	ST. CLAIR	ZIP CODE: 48022		
BETWEEN:	'AND:		7	FAX I.D. #: 74-1			
II. IDENTIFICAT	ION			·····	<u>المحمد المحمد بالمحمد بالمحمد بالمحمد المحمد ا</u>		
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B. ARCHITECT	OR ENGINEER		······································		in and a second seco		
NAME:			TELEPHO	NE NO.:			
ADDRESS:	CITY:		STATE:		ZIP CODE:		
LICENSE NUMBE	R.		EXPIRATIO	ON DATE:	L		
C. CONTRACTO	DR				ی میں اور		
NAME:			TELEPHO	NE NO.:			
ADDRESS:	CITY:		STATE:		ZIP CODE:		
BUILDERS LICEN	ISE NUMBER:		EXPIRATI	ON DATE:			
FEDERAL EMPLOY REASON FOR EXE	ER ID NUMBER OR MPTION:						
WORKERS COMP. REASON FOR EXE	INBURANCE CARRIER OR			171	V 7 2 2017		
	NUMBER OR REASON FOR			·	₩ <u>-<u>₹</u>_<u>₹</u>}-<->>+</u>		
	PROVEMENT AND PLAN REVIEW			OF			
A. TYPE OF IM	PROVEMENT	<u></u>		ADMINISTR	ATTVE SERVICES		
1. HOUSE	2. ADDITION 3. ALTERATION	4.🗖	REPAIR	5. 🖵 WRE	CKING		
6 CI MOBILE H		PREMANU	FACTURE S		ION 10. D POLE BARN		
11. GARAGE	12. C ACCESSORY BLDG. 13. C		14. 🖵 🛛 POC	DL 15.	WHIRLPOOL/HOT TUB		
B. REVIEW(S)	TO BE PERFORMED USING MICHIGAN BL	ILDING C	ODE.	· · · · · · · · · · · · · · · · · · ·			
		CHANICAL		ELECTRIC			

	1	
IV. PROPOSED USE OF BUILDING		
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	L, MOTEL 5. DETACHED GAR	AGE
	OF UNITS) CHED GARAGE 6. DOTHER	
B. NONRESIDENTIAL	HED GARAGE	· · · · · · · · · · · · · · · · · · ·
7. C AMUSEMENT 11. SERVICE		RY, EDUCATIONAL
	. INSTITUTIONAL 16. 🗔 STORE, MERCAN ANK, PROFESSIONAL 17. 📮 TANKS, TOWERS	
9. 💭 INDUSTRIAL 13. 🖵 OFFICE, E 10. 💭 PARKING GARAGE 14. 🖵 PUBLIC U		
DRY BUILDING AT HOSPITAL, ELEMENTARY SCHOOL	SE OF BUILDING, E.G. FOOD PROCESSING PLANT, MA SECONDARY SCHOOL, COLLEGE, PAROCHIAL SCH UILDING, OFFICE BUILDING AT INDUSTRIAL PLANT. IF E.	OOL, PARKING GA-
V. SELECTED CHARACTERISTICS OF BUILDING		
A. FOUNDATION FRAME		
	DIMENSIONS	
	BASEMENT	
B. WATERIAL IN FOUNDATION WALLS		
/ / / / / / / / / / / /		CHES PRECAST
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D. PRINCIPAL TYPE OF HEATING FUEL		a
6. 🖸 GAS 7. 🗖 OIL 8. 🗖		0. DOTHER
/	IF YES WHAT TYPE	
E. TYPE OF SEWAGE DISPOSAL		
	12. SEPTIC SYSTEM	
F. TYPE OF WATER SUPPLY		۵۱ <u>۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰</u>
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(Omit cents)		······································
17. COST OF IMPROVEMENTS\$	18. NUMBER OF STORIES	
To be installed but not included in the above cost	19. FLOOR AREA: 1ST & 2ND FLOOR	
a. Electrical	3RD - 10TH FLOOR	
b. Plumbing	11TH - ABOVE FLOOR	
c. Heating, air conditioning,	TOTALAREA	
d. Other (elevator, ect.)		
	20. GARAGE & SIZE	
I. NUMBER OF OFF STREET PARKING SPACES		
21. ENCLOSED	22. OUTDOORS	
	545	

VI. APPLICANT INFORM	ATION				
APPLICANT IS RESPONSIBL PROVIDE THE FOLLOWING		OF ALL FEES AND		CABLE TO THIS A	PPLICATION AND MUS
NAME:			TELEPHON	IE NO.:	· · · · · · · · · · · · · · · · · · ·
ADDRESS:	CI	TY:	STATE:	Z	CIP CODE:
FEDERAL LD. NUMBER/SOC	CIAL SECURITY NUMBI	ER:			··· ···
I HEREBY CERTIFY THAT THE I OWNER TO MAKE THIS APPLIC MICHIGAN. ALL INFORMATION	ATION AS HIS AUTHORIZ	ED AGENT, AND WE AG	REE TO CONFORM	TO ALL APPLICABL	E LAWS OF THE STATE
SECTION 23A OF THE STAT MICHIGAN COMPILED LAWS ING TO PERSONS WHO ARE SUBJECT TO CIVIL FINES.	, PROHIBITS A PERSON FRO	OM CONSPIRING TO CIRC	UMVENT THE LICENS	ING REQUIREMENTS	OF THIS STATE RELAT-
SIGNATURE OF APPLICANT					
		ONMENTAL CONTRO			
	REQUIRED?	APPROVED	DATE	NUMBER	BY
A - ZONING	UYES NO				
B - FIRE DISTRICT	YES NO				
C - POLLUTION CONTROL	TYES NO				· · · · · · · · · · · · · · · · · · ·
D - NOISE CONTROL	I YES I NO				
E - SOIL EROSION	🗆 YES 🗳 NO				
F - FLOOD ZONE	YES NO				·
G-WATER SUPPLY	🗆 YES 🗖 NO		· · · · · · · · · · · · · · · · · · ·		
II- SEPTIC SYSTEM	🛛 YES 🔲 NO			·····	
I- VARIANCE GRANTED	🛛 YES 🖾 NO				
J-CULVERT	YES NO				
K- HOUSE NUMBERS	Q YES Q NO				
L-OTHER	🛛 YES 🔲 NO				
VIII. VALIDATION - FOR D	PEPARTMENT USE C	ONLY	i i i i i i i i i i i i i i i i i i i	North Manager	
NOTES AND DATA:	······································		P.		<u>IVED</u>
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BUILDING PERMIT NUMBER	la is	AF	PROVAL SIGNAT	URE	/ SERVICES
ISSUE DATE:		TI	TLE:		
PERMIT FEE:					
PLAN REVIEW FEE:	BOND:	D/	TE:		

MINIMUM BUILDING SETBACK MUST BE

1. 100' OFF ROAD RIGHT -OF- WAY

*. 7

- 2. 25' OFF SIDE EASEMENT
- 3. 50' OFF REAR EASEMEINT

MUST SHOW ALL BUILDING ON SITE OR PLOT PLAN, MUST SHOW ALL 4 SIDES DISTANCE TO PROPERTY LINES & CORNER, LOTS REQUIRE BOTH ROAD SETBACK. MUST HAVE PRIVATE SEWAGE DISPOSAL SYSTEM, WELL, EDISON POLES CLEARLY MARKED.

DX.	X. SITE OR PLOT PLAN - FOR APPLICANT USE																													
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IN	INDICATE DIRECTION OF NORTH WITHIN THE CIRCLE:										11			5,0																
										DA	re:					_														

ELECTRICAL PERMIT APPLICATION EMMETT TOWNSHIP 11100 DUNNIGAN ROAD, EMMETT, MI 48022

PAUL RAICEVICH ELECTRICAL INSPECTOR				-	
FOR INSPECTIONS CALL 586 873-2660	ELECTRICA	L PERMIT # ERMIT #		Date	
	BUILDING P	ERMIT #	<u> </u>	Date	
1. JOB LOCATION: NAME OF OWNER/AGENT					
STREET ADDRESS & JOB LOCATION (Street Number & Nar	ne) City	State		Zip	
BETWEEN WHAT ROADS:					
2. CONTRACTORS/HOME OWNER INFO				<u>+-</u> +-	
CONTRACTOR HOMEOWNER NAME	(check appropriate box)	LICENSE NO.	EXPIR	RATIO	N DATE
STREET ADDRESS (Street Number & Name)	City	State		Zip	
PHONE NUMBER	FEDERAL ID	NUMBER (or exem	ption)		·
WORKERS COMPENSATION Ins. Carrier (or exemptio	n) MESC EMPLO	YERS ID NO. (or	exemption)	
SIGNATURE OF LICENSEE OR HOMEOWNER (Hom	eowner Must Sign Affida	vit Below)		····	
3. TYPE OF JOB:	4. PLANR	EVIEW REQU	IRED		
SINGLE FAMILY 1, NEW 2, REMODEL	A PLAN REVIE	W MAY BE REOUREI	D BEFORE V	VORK I	SSTARTED
OTHER 3. NEW 4. REMODEL 5. SPECIAL I	NSPECTION ON ANY BUILD	ING OTHER THAN A	SINGLE DW	'ELLIN¢	D LESS THAP
6. MOBILE HOME SETUP 7. MODULAR HOME SETUP	3,500 SQUARE I	EET. HAVE PLANS B	IEEN SUBM	ITTED	FOR REVIEW <u>REQUIRED</u>
5. FEE CHART: Enter the number of items being				<u>NO1</u>	MGQUINUP
		unit price & enter		നാരം	more et
FEE ITEMS1 TO' 1. APPLICATION FEE \$50.00 1 \$	0.00 <u>GENERATORS</u>		FEE I'	ENIS	<u> </u>
1. APPLICATION FEE 350.00 1 3 3 2, SERVICE thru 200 Amp. 25.00	19, UNITS Up to 20	KVA & UP	20.00		S
3. Over 200 Amp thru 600 Amp. 30.00	20. UNITS 21 to 50	KVA&HP	25.00		
4. Over 600 Amp thru 800 Amp. 35.00	21. UNITS 50 & o	/er K.V.A. & H.P.	30.00		
5. Over 800 Amp thru 1200 Amp. 40.00	22. FIRE ALARMS		50.00		
6. Over 1200 Amp. GF1 ONLY 50.00	23. Alarms 11 to 20	Devices	100.00		**************************************
7. CIRCUITS 5.00	24. Alarms over 20	Devices	\$5/ ea.		
8. LIGHT FIXTURES/Outlets- Per 25 10.00	25. ENERGY RET	ROFIT - Temp Contro	45.00		
9. DISHWASHER 8.00	26. CONDUIT Onl	y or Ground Only	45.00		
10. FURNACE - Unit Heater 8,00	27. Special Safety I	nsp. (Inci .Cert. Fee)	50.00		
11. ELECT. HEATING UNITS baseboard 10.00	<u>K.Y.A., H.P., W</u>	IND TURBINES, ***	EVSE and *	***PV	MODULES:
12. POWER OUTLETS range-dryer-etc. 10.00	28. Units up to 20 I		6.00		
13, SIGNS - Per Unit 10.00	Per PV Mode		6,00		
14. Letter Each 15.00 15. Neon Each 25 feet 20.00	29. Units 21 to 50 Per PV Mod		10.00	}	
16. Feeders-Bus Ducts, etc. – Per 50' 10.00	30. Units 50 & over	KVA or HP /	10.00		
17. Mobile Home Park Site 25.00	Per PV Mod		12,00		
18. Recreational Vehicle Park Site 20.00	31. ADDITIONAL		50.00		
	32, FINAL INSPEC		50.00	1	\$ 50,00
· · · · · · · · · · · · · · · · · · ·					

MAKE CHECKS PAYABLE TO: <u>EMMETT TOWNSHIP</u>

6. HOMEOWNER AFFIDAVIT:

I hereby certify the electrical work described on this permit application shall be installed by myself in my home in which I am living or about to occupy. All work shall be installed in accordance with the State Electrical Code and shall not be enclosed, covered up or put into operation until it has been inspected and approved with the Township Electrical Inspector. I will cooperate with the Township Electrical Inspector and assume the responsibility to arrange for necessary inspections.

SIGNATURE

JAN *** EVSE - Elect vehicle supply eqpt **** PV MODULES - Photovoltaic

TOTAL FEES

OFFICE OF ADMINISTRATIVE SERVICES

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MECHANICAL PERMIT APPLICATION

Emmett Township, Emmett, MI 48022

AUTHORITY; ACT 230, P. COMPLETION; Installation Until App PENALTY: Written Order T	Shall Not Be Started lication is Filed		Date of Application: Permit No. Property I.D. #	
I. JOB LOCATION	· · · ·			
Name of Owner/Agent		Has a building p	permit been obtained for this project?	Not required
Street Address & Location (S	treet No. and Name)	City/Village	Township	County
II. CONTRACTOR/F	IOMEOWNER INFORMATION	-		
Contractor U E	Iomeowner Name (Check Appropriate Box)		License Number	Expiration Date
Address (Street No. and Name	a)	City	State	Zíp Code
Felephone Number	Date of Birth	Federal Employer	ID Number (or reason for exemption)	l
Workers Compensation Insur	ance Carrier (or reason for exemption)	MESC Employer	Number (or reason for exemption)	· · · · · · · · · · · · · · · · · · ·

III, TYPE OF JOB

IV. PLAN REVIEW REQUIRED

1.4

					·	
	Single Family	New	Premanufactured Home Setur	(State Approved)	S	e Section VII. for plan review requirements before completing this section.
ĺ					•	A. Plans not required. C. Plans required but not yet submitted.
	Other	Alterations	Manufactured Home Setup (H	UD Mobile Home)	1	
ĺ	1			1		B Plans Required and Submitted

V. APPLICANT SIGNATURE

Section 23a of the State Construction Act of 1972, Act No. 230 of the Public Acts of 1972, being section 125,1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23a are subject to civil fines.

Signature of Licensee or Homeowner (Homeowner must also sign affidavit below)

VI. HOMEOWNER AFFIDAVIT

I herby certify the mechanical work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the State Mechanical Code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Township Mechanical Inspector. I will cooperate with the Township Mechanical Inspector and assume responsibility to arrange for necessary inspections.

Signature of Homeowner

VII. PLAN REVIEW REQUIREMENT

Plans and specifications for new construction work, alteration, repair, expansion, addition, or modification work shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to Act No. 299 of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's signature and seal. A PLAN REVIEW IS REQUIRED BEFORE A PERMIT CAN BE ISSUED.

Exception 1: Alterations and repair work determined by the mechanical official to be of a minor nature.

Exception 2: Work completed by a governmental subdivision or state agency costing less than \$15,000.00,

Exception 3: A building of use group R-2, R-3, or R-4 containing not more than 3,500 square feet of building area.

Exception 4: A building of use group B, M or S-2 having HVAC equipment only, with one fire area and not more than 3,500 square feet.

COMPLETE APPLICATION ON BACK SIDE

VIII. FEE CLARIFICATIONS

ITEM #2, RESIDENTIAL HEATING SYSTEM:

This item is used for the installation of a heating system in a new residential structure, Items #10; Gas Piping and #18; Duct SHOULD NOT BE charged.

Replacement systems should be itemized.

IX. FEE CHART - Enter the number of items being installed, multiply by the unit price for total fee.

	FBE	#ITEM	TOTAL
1. Application Fee (non-refundable)	\$50.00	1	\$50.00
2. Residential Heating System (includes duct & pipe)	\$50.00		r
3. Gas/Oil burning Equipment New and/or Conversion Units	\$30.00		
4. Residential Boiler	\$30.00		
5. Water Heater	\$5.00	·	
6. Flue/Vent Damper	\$5.00		
7. Solid Fuel Equip. (includes chimney) Gas Burning Fireplace	\$30.00		
8. Chimney, Factory built- installed separately	\$25.00		
9. Solar; set of 3 panels (includes piping)	\$20.00		
10. Gas piping; each opening - new installation	\$5.00		
11. Air Conditioning	\$30.00		
12. Heat Pumps; Geo Thermal	\$30.00		
13. Bath & Kitchen exhaust	\$5.00		
Tanks 14. Above ground	\$20.00		
15, Below ground	. \$25.00		,
16. Humidifiers	\$10.00	•	-
17. Piping - minimum \$25.00	\$. 05 / ft.	 	
18. Duct - minimum \$25.00	<u>\$. 10 / ft.</u>	l 	

X. INSTRUCTIONS FOR COMPLETING APPLICATION

GENERAL: Mechanical work shall not be started until the application for permit has been filed with the Township. All installations shall be in conformance with the State Mechanical Code. No work shall be concealed until it has been inspected.

The name of the inspector and the telephone number will be provided on the permit form. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the location and permit number.

EXPIRATION OF PERMIT: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. A PERMIT WILL BE CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED.

	FEE #ITEM TOTAL
19. Heat Pumps; Commercial (pipe not included)	\$20.00
Air Handlers/Heat Wheels 20, Under 10,000 CPM	\$20.00
21 Over 10,000 CFM	\$60.00
22. Commercial Hoods	\$15.00
23. Heat Recovery Units	\$10.00
24, V.A.V. Boxes	\$10.00
_ 25. Unit Ventilators	\$10.00
26. Unit Heaters (Terminal Units)	\$15.00
27. Fire Suppression/Protection - minimum \$20.00	\$.75 per head
28. Evaporator Coils	\$30.00
29. Refrigeration (Split System)	\$30.00
30, Chiller	\$30,00
31. Cooling Towers	\$30.00
32. Compressor	\$30.00
33. Special/Safety Inspection	\$50.00
. 34. Rough & Additional Inspection	\$50.00
35. Final Inspection	\$50.00
36. Plan Review (per hour)	\$50.00
· · ·	TOTAL FEES

1.--

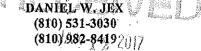
MAKE CHECKS PAYABLE TO:

EMMETT TOWNSHIP

SEND APPLICATIONS TO:

EMMETT TOWNSHIP 11100 DUNNIGAN ROAD EMMETT, MI 48022





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CASH CHECK NO:

WHEN PROPERLY VALIDAT	ED (IN SPACE RELOW)	THIS IS VOUR PERMIT	ISTRATIVE	CEMMON
WIIEATKOFERDT TALIDAT		THO IS TOOR TERMIT		A DURIES

RECEIPT NO:	DATE ISSUED.	

PLUMBING PERMIT APPLICATION

		Emmett	Towns	ship, E	m'n	nett, MI 4	8022	••	
AUTHORITY; ACT 230, PA	1972, as Amended						Date of Application		
COMPLETION; Installation							Permit No.	/11.	
Until Applic PENALTY: Written Order T	ation is Filed o Stop Construction						Property I.D.#	•	······································
I. JOB LOCATION									
Name of Owner/Agent				Has	buil	ling permit been	obtained for this project	 ?	
						Yes			equired
Street Address & Location (St	reet No. and Name)			City/V	illage) • • •	Township		County
II. CONTRACTOR/H	OMEOWNER INFO	나는 방법을 알았다. 나는 것은 것이라.					License Number	 	Expiration Date
Address (Street No. and Nan	(6)			City		· · · · · · · · · · · · · · · · · · ·	State		Zip Code
Telephone Number	Date of Birth			Federal	Emp	loyer ID Numb	per (or reason for exempt	ion)	
Workers Compensation Insu	rance Carrier (or reason fo	r exemption)		MBSC	Bm	loyer Number	(or reason for exemption)	
III. TYPE OF JOB						V. PLAN F	REVIEW REQUIR	ED	- <u> </u>
Single Family	v Premanufaci erations Manufacture				1.	A. L Plans	II. for plan review require not required. C. [] is Required and Submitted	Plans require	re completing this section a but not yet submitted
V. APPLICANT SIG	NATURE								
Section 23a of the State Con person from conspiring to c residential structure, Violat	reunvent the licensing req	uirements of	this state	cts of 197 relating t	2, be o pen	ing section 125. Sons who are to	1523a of the Michigan C perform work on a resid	Compiled La Iential build	ws, prohibits a ling or a
Signature of Licensee or Ho	ncowner (Homeowner	must also sig	n affidavit	t below)					· · ·
VI. HOMEOWNER	AFFIDAVIT							-	•.
I herby certify the plumbing work shall be installed in ac approved by the Township necessary inspections.	cordance with the State P	lumbing Cod	le and sha	ll not be	enció	sed, covered up	, or put into operation u	intil It has b	een inspected and
Signature of Homeowner							•		
VII. PLAN REVIEW F	LEQUIREMENT							•	•
Plans and specifications for a architect or engineer licensed A PLAN REVIEW IS REQU	pursuant to Act No. 299 of	the Public A	cts of 198	, addition, O, as ame	or m ided,	odification wor and shall bear t	k shall be prepared by or nat architect's or engineer	under the di s signature a	rect supervision of an and seal.

Exception 1: Alterations and repair work determined by the Plumbing official to be of a minor nature. Exception 2: Work completed by a governmental subdivision or state agency costing less than \$15,000.00. Exception 3: One or two family dwelling containing not more than 3,500 square feet of building area. Exception 4: Assembly, Business, Mercantile and Storage buildings with a required plumping fixture count less than 12.

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COMPLETE APPLICATION ON BACK SIDE

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VIII. LEAD FREE NOTICE

The State Construction Code Act, Act No. 230 of the Public Acts of 19/2, as amended, requires pipes, pipe fittings, solder or flux, which are used in the installation or repair of a plumbing system in a building or structure, providing water for human consumption or a public water system, be lead free. Lead free is defined as solder or flux containing not more than 0.2% lead; and pipe and pipe fittings containing not more than 8% lead. These provisions do not apply to leaded joints necessary for the repair of cast iron pipes.

IX. FEE CLARIFICATIONS

1.			.		
1.	ITEM #3, FIXTURES, FLOOR DRAIN	S, SPECIAL DRAINS,	, & WATER ¢C	NNECTED APPLIAN	ICES INCLUDE;
	Water Closets Sink (any description)	Slop Sink Dri	inking Fountain	Floor Drain	Water Outlet or connection to any Make-up Water Tank
	Bathtub Emergency Eye Wash	Bidet Co	ndensate Drain	Roof Drain	Water Outlet or connection to Heating System
1	Lavatories Emergency Shower	Cuspidor Wa	shing Machine	Grease Trap	Water Outlet or connection to Filters
	Shower Stall Garbage Grinder	Dishwasher Ac	id Waste Drain	Starch Trap	Connection to Sprinkler System (Irrigation)
	Laundry Tray Water Outlet Cooler	Refrigerator Em	balming Table	Plaster Trap	Water Connected Sterilizer
	Urinal Ice Making Machine	Water Heater Bed	1 Pan Washer	Water Softener	Water Connected Dental Chair
·	Autopsy Water Connected Still	•			Water Connection to Carbonated Beverage Dispensers
	PLUS ANY OTHER FIXTURE, DRAIN	I, OR WATER CONN	ECTED APPLL	ANCE NOT SPECIFIC	CALLY LISTED

X, FEE CHART - Enter the number of items being installed, multiply by the unit price for total fee.

	FEE	#ITEM	TOT	CAL
1. Application Fee (non-refundable)	\$50.00	1	\$50	.00
2. Air admittance valve	\$5.00 each			
3. Fixtures, floor drains, special drains, water connected appliances	\$5.00 each			
4. Stacks (soil, waste, vent and conductor)	\$3.00 each			
5. Sewage ejectors, sumps	\$5.00 each			- 1
6. Sub-soil drains	\$5.00 each	, ·		
Water Service 7. Less than 2"	\$ 5.00			
8. 2" to 6"	\$25.00			
9. Over 6"	\$50.00			
10. Connection bldg. drain - bldg. sewers	\$ 5.00			
Sewers (sanitary, storm, or combined) 11. Less than 6"	\$ 5.00			
12. 6" & Over	\$25.00			
13. Manholes, Catch Basins	\$5.00 each			
14. Domestic water treatment and filtering equipment	\$ 5.00			

XI. INSTRUCTIONS FOR COMPLETING APPLICATION

GENERAL: Plumbing work shall not be started until the application for permit has been filed with the Township. All installations shall be in conformance with the State Plumbing CodeNo work shall be concealed until it has been inspected.

The name of the inspector and the telephone number will be provided on the permit form. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the location and permit number.

EXPIRATION OF PERMIT: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work PERMIT WILL BE CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION, CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED

15. Medical Gas Systems \$45.00 Watering Distributing Pipe (system) 16. 3/4" Water Distribution Pipe \$ 5.00 \$10.00 17. 1^ª Water Distribution Pipe 18. 1 1/4" Water Distribution Pipe \$15.00 19. 1 1/2" Water Distribution Pipe \$20.00 20. 2" Water Distribution Pipe \$25.00 21, Over 2" Water Distribution Pipe \$30.00 22. Reduced pressure zone back-flow preventer \$5.00 each \$50.00 23. Special/Safety Inspection 24, Rough & Underground Inspection \$50.00 25. Final Inspection \$50.00 50.00 26. Plan Review (per hour) \$50.00

FEE

#ITEM TOTAL

TOTAL FEES

MAKE CHECKS PAYABLE TO:

EMMETT TOWNSHIP

SEND APPLICATIONS TO:

EMMETT TOWNSHIP 11100 DUNNIGAN ROAD EMMETT, MI 48022

FOR INSPECTIONS CALL:

DANIEL/W. JEX (810) 531-3030 (810) 982-8419 OFFICE OF

CHECK NO: _

ADMINISTRATIVE SERVICES

WHEN PROFERLY VALIDATED (IN SPACE BELOW) THIS IS YOUR PERMIT

CASH

DATE	ISSUED:



203 E. Grand Blanc Rd. Grand Blanc, MI 48439 **City of Grand Blanc**

www.cityofgrandblanc.com

810-694-1118 Fax 810-694-9517

MAYOR Susan J. Soderstrom

CITY COUNCIL Paula L. Nas - Mayor Pro-Tem Lisa.A. Blondell John W. Creasey Chris Douglas Julie M. Nielsen -

CITY MANAGER Wendy L. Jean-Buhrer

CITY CLERK-ASST. CITY MANAGER Bethany J. Smith

FINANCE DIRECTOR-TREASURER Dianne M. Waterworth

CITY ASSESSOR Tonya Lall

CITY ATTORNEY Walter P. Griffin April 12, 2017

Construction Code Commission 611 W. Ottawa Lansing, MI 48933

Re: Application to Administer and Enforce

Dear Commission Members:

The City of Grand Blanc submitted the Application to Administer and Enforce In January 2017. The City was notified on March 15, 2017, regarding additional requirements. I am responding to the reasoning behind the local administration and enforcement of the electrical, plumbing and mechanical code.

The City currently administers the building code. In 2012, City Council passed the resolution to administer and enforce the electrical, plumbing and mechanical codes, as well as directing administration to proceed with Construction Code Commission approval processes. In 2015, City administration changed; and offering the remaining trades within the City's departments became a priority.

The City's goal is to improve the service provided to builders, contractors and homeowners as the plan review, permitting and inspections will be conducted by one governmental unit instead of two. The City has currently adopted the latest Building, Mechanical, Electrical and Plumbing codes.

The City has also become engaged as a Redevelopment Ready Community through Michigan Economic Development Corporation's program. Lessening the time for the trades to be reviewed and inspected means businesses are in the community operating faster.

If you have any questions, please feel free to contact me.

Thank you,

Wendy L. Jean-Buhrer City Manager

CITY OF GRAND BLANC FY 2016-2017 FINAL AMENDED BUDGET FY 2017-2018 AMENDED BUDGET FY 2018-2019 ORIGINAL BUDGET

* = Proposed Am	ended and Original - Finance Committee	-	_				REQUESTED	REQUESTED
				AMENDED	AMENDED	ORIGINAL	AMENDED	ORIGINAL
	Date of Action:		S	1/11/2017		5/11/2016	•	
		FY 2015-2016	FY 2016-2017	FY 2016-2017	FY 2016-2017	FY 2017-2018	FY 2017-2018	FY 2018-2019
		ACTUAL	ACTUAL	AMENDED	AMENDED	ORIGINAL	AMENDED	ORIGINAL
GL NUMBER	DESCRIPTION	5/31/2016	3/16/2017	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET
Fund 101 - GENE	RAL FUND							
Revenues		-						
Dept 000-REVEN	UE							
101-000-403.000	CURRENT TAXES	2,179,225	2,087,303	2,127,000	2,127,000	2,148,000	2,175,000	2,218,500
101-000-405.000	PAYMENT IN LIEU OF TAXES	1,935	0	0	0	0	0	0
101-000-446.000	PENALTIES & INTEREST	11,282	13,330	21,000	21,000	21,000	21,000	21,000
101-000-501.000	NON-BUSINESS LICENSES	170,517	125,663	168,000	168,000	168,000	168,000	168,000
101-000-504.000	BUILD., ELEC., MECH., PLUM. REV	80,057	55,446	105,000	95,000	155,000	195,000	215,000
101-000-553.000	TRANSFER FROM - SEWER	0	16,458	16,455	16,455	0	0	0
101-000-554.000	TRANSFER FROM - WATER	0	16,458	16,455	16,455	0	0	0
101-000-570.000	LIQUOR LICENSES	7,096	6,873	7,500	6,900	7,500	7,500	7,500
101-000-574.000	MICHIGAN REVENUE SHARING	669,029	471,885	698,280	649,760	667,080	649,760	649,760
	EVIP/CVT Revenue Sharing/Statutory		0		44,280	44,280	44,280	44,280
101-000-607.202	MAJOR STREET ADMINISTRATION FEE	12,500	12,500	12,500	12,500	12,500	12,500	12,500
101-000-607.203	LOCAL STREET ADMINISTRATION FEE	7,000	7,000	7,000	7,000	7,000	7,000	7,000
101-000-607.248	DDA ADMINISTRATION FEE	500	500	500	500	500	500	500
101-000-607.590	SEWER ADMINISTRATION FEE	19,000	9,500	9,500	9,500	9,500	9,500	9,500
101-000-607.591	WATER ADMINISTRATION FEE	35,000	17,500	17,500	17,500	17,500	17,500	17,500
101-000-618.000	COLLECTION FEES	100,119	102,580	102,000	104,000	99,000	104,000	104,000
101-000-622.000	REZONING FEES	8,490	5,702	6,500	6,500	6,500	6,500	6,500
101-000-627.000	ACCIDENT REPORTS	4,724	5,679	4,500	6,000	4,500	5,000	5,000
101-000-638.000	GB SCHOOL REIMBURSEMENT	45,000	0	45,000	45,000	45,000	45,000	45,000

CITY OF GRAND BLANC FY 2016-2017 FINAL AMENDED BUDGET FY 2017-2018 AMENDED BUDGET FY 2018-2019 ORIGINAL BUDGET

* = Proposed Ame	ended and Original - Finance Committee						REQUESTED	REQUESTED
	Date of Action:			AMENDED 1/11/2017	AMENDED *	ORIGINAL 5/11/2016	AMENDED *	ORIGINA
		FY 2015-2016	FY 2016-2017		FY 2016-2017	and the second se	FY 2017-2018	FY 2018-201
		ACTUAL	ACTUAL	AMENDED	AMENDED	ORIGINAL	AMENDED	ORIGINA
GL NUMBER	DESCRIPTION	5/31/2016	3/16/2017	BUDGET	BUDGET	BUDGET	BUDGET	BUDGE
101-000-660.000	POLICE FINES	11,964	10,764	15,000	15,000	15,000	15,000	15,000
101-000-673.000	INTEREST	10,109	1,561	9,700	9,700	9,700	9,700	9,700
101-000-676.001	LOCAL ST - EQUIP RENTAL AND WAGES	29,607	24,888	60,000	50,000	60,000	60,000	60,000
101-000-676.002	MAJOR ST - EQUIP RENTAL AND WAGES	29,684	38,306	45,000	50,000	40,000	50,000	40,000
101-000-677.000	RENTALS	7,405	2,275	8,600	5,600	8,600	8,600	8,600
101-000-678.000	DEBT SERVICE PAYMENT FROM LOCAL ST	100,000	0	0	0	0	0	100,000
101-000-680.000	SALE OF FIXED ASSETS	0	0	150,000	150,000	0	0	0
101-000-690.000	EMPLOYEE HEALTH INSURANCE	22,542	909	1,800	900	22,000	10,000	10,000
101-000-693.003	INSURANCE REBATES	17,399	27,545	26,500	27,500	15,000	15,000	15,000
101-000-693.007	FARMERS MARKET SPONSORSHIPS/DON	11,112	8,719	10,700	10,700	10,700	10,700	10,700
101-000-694.000	MISCELLANEOUS	8,457	5,282	1,100	5,200	1,000	1,000	1,000
101-000-696.000	REFUSE CHARGES	298,807	205,244	300,000	308,000	315,610	315,610	325,080
101-000-696.001	REFUSE PENALTIES	5,387	4,665	5,600	5,600	5,600	5,600	5,600
Total Dept 000-RE	VENUE							
TOTAL Revenues		3,903,947	3,284,534	3,998,690	3,991,550	3,916,070	3,969,250	4,132,220

CITY OF GRAND BLANC FY 2016-2017 FINAL AMENDED BUDGET FY 2017-2018 AMENDED BUDGET FY 2018-2019 ORIGINAL BUDGET

* = Proposed Ame	ended and Original - Finance Committee		_		-		REQUESTED	REQUESTED
		1		AMENDED	AMENDED	ORIGINAL	AMENDED	ORIGINAL
	Date of Action:			1/11/2017		5/11/2016	*	-
		FY 2015-2016	FY 2016-2017	FY 2016-2017	FY 2016-2017	FY 2017-2018	FY 2017-2018	FY 2018-2019
		ACTUAL	ACTUAL	AMENDED	AMENDED	ORIGINAL	AMENDED	ORIGINAL
GL NUMBER	DESCRIPTION	5/31/2016	3/16/2017	BUDGET	BUDGET	BUDGET	BUDGET	BUDGET
Dept 371-BUILD	ELECT, MECH, PLUM, CODE ENFORC		-					
101-371-703.000	SALARIES - CODE ENFORCEMENT	22,966	17,049	28,800	28,800	29,400	29,870	30,470
101-371-703.001	CONTRACTUAL - PLUMBING	0	0	0	0	0	20,000	30,000
101-371-703.002	CONTRACTUAL - ELECTRICAL	0	0	0	0	0	20,000	30,000
101-371-707.000	SALARIES - ADMINISTRATOR PT	42,366	33,677	54,600	54,600	55,700	56,400	57,530
101-371-715.000	SOCIAL SECURITY	4,998	3,881	5,850	5,850	6,000	6,500	6,500
101-371-717.000	DENTAL PLAN	1,914	1,832	2,000	2,000	2,200	2,220	2,470
101-371-719.000	HOSPITALIZATION	544	3,860	550	3,900	600	610	670
101-371-720.000	LIFE INSURANCE	742	574	1,000	1,000	1,100	1,460	1,620
101-371-727.000	OFFICE SUPPLIES	1,554	418	3,000	3,000	3,000	4,500	5,000
101-371-757.000	OPERATING SUPPLIES	260	1,354	1,000	1,500	1,000	2,500	3,000
101-371-864.000	CONFERENCES & MEETINGS	55	1,130	1,130	1,130	1,000	2,000	2,000
101-371-958.000	MEMBERSHIPS	523	40	1,000	1,000	600	900	900
101-371-985.000	CAPITAL OUTLAY	16,620	567	600	600	0	8,000	7,500
Total Dept 371-BL	JILDING INSPECTION/CODE ENFORCEMENT	92,542	64,381	99,530	103,380	100,600	154,960	177,660

(

	City of	Grand Bla	anc	
203 Ea	st Grand Blanc	Road · Gran	d Blanc, MI	48439
	Ph: (810) 694-1	118 Fax: (81	0) 694-9517	7
Electrical	Mechanical	Plumbing	Building	🗆 DPW
Foundation	Backfill	🗆 Rough	Footing	Sewer
Overhead	Underground	🗆 Underslab	Safety	□ Site
Service	Above Ceiling	DPW Final	□Masonary	Insulation
Other	Α	ddress:		
Comments:				
Date	Permit #		Insp	

	Ph: (810) 69	of Grand B 04-1118 Fax: (810 Notice of Correction)) 694-9517	
Electrical	Mechanical	Plumbing	🗖 Building	DPW
		Reason		
		······································		
Date	Permit	#	Insp	

City of Grand Blanc

203 East Grand Blanc Road • Grand Blanc, MI 48439 Ph: (810) 694-1118 Fax: (810) 694-9517

□ Electrical		hanical	□ Plumbing	□ Building	
□ Fire Suppres	ssion	🗆 Ansul	□ DPW	□ Site	
Comments:	F	FIN/	AL		
Date:	Perm	it #	Insp.		

CERTIFICATE OF OCCUPANCY

CITY OF GRAND BLANC STATE OF MICHIGAN

Theodore Sczepanski, CBO (810) 694-1118

Certificate Number OF16-0007

Premises Located At: CLIFF SUMMIT LLC 12341 WORTHINGTON CT GRAND BLANC, MI 48439

This is to certify that the occupancy of the structure at the noted location, having complied with the requirements of the ordinance(s) and building code, is approved for the occupancy by the City of Grand Blanc Building Department.

Building Permi	t Number	Use Group: R-3	Building Code In Effect
PB15-07	Cons	truction Type: V-B	2015 MBC/MRC
Parcel ID#:	56-22-626-032	Permit Type:	Building
Contractor:	Boulder Custom	Type of Construction:	Residential New Construction
Lot Number:		Dwelling Units:	01
Square Feet:	1,623	Automatic Sprinkler System	Required/Provided
Occupancy Load:	00		
Stipulations:			

FULL OCCUPANCY FOR CLIFF SUMMIT LLC

In accordance with section 110.1 Michigan Building Code, 2012 Edition or Section R-110.1 Michigan Residential Code, 2015 Edition. This Certificate of Occupancy is issued for work completed and inspected per the issued building permit as noted above. This Certificate is valid only for the structures (s) and/or work authorized, completed and inspected for compliance.

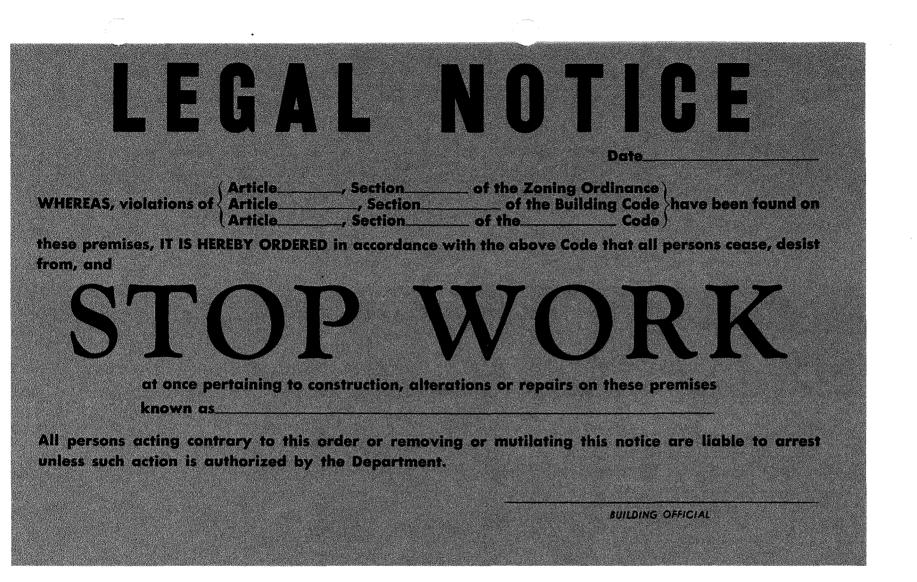
Building Official Signature

Date: 04/03/2017

560



Issued: 06/22/2016



Dangerous and Unsafe This Structure Known as DANGER - KEEP OUT

All persons are hereby notified to keep out as long as this notice remains posted. Any persons willfully destroying, mutilating or removing this card will be punished, to the full extent of the law.

Posted under authority granted in Article _____ Section _____ of the _____ Code.

DATE POSTED

¢

FIELD CORRECTION NOTICE

LOCATION	PERMIT NO.
ISSUED TO	L DECRANCIPILE BADTIES
Upon inspection, violations of the	Secwere in evidence.
The following orders are hereby issued for	r their correction :
,	
	VHEN CORRECTIONS HAVE BEEN COMPLETED. ACCEPTANCE AND F THIS DEPARTMENT IS REQUIRED. ALL CORRECTIONS MUST BE
MADE ON OR BEFORE	
DATE	ΒΥ
	INSPECTOR

ORIGINAL

CITY OF GRAND BLANC RECORD OF BUILDING INSPECTIONS

Permit No	Date	Lot No	
Subdivision			
Street No			
Building Inspector			

CERTIFICATION REQUESTING RESIDENTIAL SESC WAIVER EXEMPT PROJECTS

I, ______, the owner of the property located at ______, in the City/**Township/Village** of ______, Michigan, or the designated agent¹ of the owner of the property, do

hereby affirm that I am requesting a soil erosion and sedimentation permit waiver based upon the one or more of the following:

Please check one or more of the following as applicable:

- o The proposed project involves an earth change² that will disturb less than two hundred twenty-five feet square feet (225 ft2) and the earth change will not contribute sediment to lakes or streams. (See R323.1705(2)).
- o The proposed project is a beach nourishment project permitted under part 325 of Act No. 451 of the Public Acts of 1994, as amended, being MCL § 324.32501 *et. seq.* (See R323.1705(1) (a)).
- o the proposed project is for normal road and driveway maintenance, such as grading or leveling, that does not increase the width or length of the road or driveway and that will not contribute sediment to lakes or streams. (See R323.1705 (l) (b)).
- o the proposed project involves an earth change of a minor nature that will be stabilized within twenty-four (24) hours of the initial earth disturbance and that will not contribute sediment to lakes or streams. (See R323.1705 (1) (c)).
- o The proposed project consists of the installation of oil, gas, and mineral wells under permit from the supervisor of wells if the owner-operator is in compliance with the conditions of Part 91, of Act No. 451 of the Public Acts of 1994, as amended, being MCL § 324.32501 *et. seq.* as determined by the supervisor of wells. (See R323.1705 (l) (d)).
- o The proposed project involves the planting of trees, shrubs, or other similar plants and soil erosion and sedimentation controls will be implemented as required, the earth change will be stabilized within twenty-four (24) hours of the initial earth disturbance, and soil erosion or sedimentation will not reasonably occur to any adjacent properties or the waters of the state. (See MCL § 324.9115a (l) (e) (i)).

¹ Designated agent is defined as "a person who has written authorization from the landowner to sign the application and secure a permit in the landowner's name." (See R323.1705(1) (c)).

² Earth change is defined as "a human-made change in the natural cover or topography of land, including cut and fill **activities, which may result in or contribute to soil erosion or sedimentation of the waters of the state**. Earth change does not include the practice of plowing and tilling soil for the purpose of crop production."

- o The proposed project involves the seeding or reseeding of lawns of less than one (1) acre, the seeded area is at least one hundred feet (100') from the waters of the state, and soil erosion and sedimentation controls will be implemented as required, the earth change will be stabilized within twenty-four (24) hours of the initial earth disturbance, and soil erosion or sedimentation will not reasonably occur to any adjacent properties or the waters of the state. (See MCL § 324.9115a(l)(e)(ii)).
- o The proposed project involves the seeding or reseeding of lawns closer than one hundred feet (100') from the waters of the state if the area to be seeded or reseeded does not exceed one hundred square feet (100 ft²), and soil erosion and sedimentation controls will be implemented as required, the earth change will be stabilized within twenty-four (24) hours of the initial earth disturbance, and soil erosion or sedimentation will not reasonably occur to any adjacent properties or the waters of the state. (See MCL § 324.9115a(1)(e)(iii)).
- o The proposed project involves the temporary stockpiling of soil, sand, or gravel not greater than a total of ten cubic yards (10 yds³) on the property, the stockpiling will occur at least one hundred feet (100') from the waters of the state, and soil erosion and sedimentation controls will be implemented as required, the earth change will be stabilized within twenty-four (24) hours of the initial earth disturbance, and soil erosion or sedimentation will not reasonably occur to any adjacent properties or the waters of the state. (See MCL § 324.9115a(1)(e)(iv)).
- o The proposed project involves seawall maintenance that does not exceed one hundred square feet (100 ft²), and soil erosion and sedimentation controls will be implemented as required, the earth change will be stabilized within twenty-four (24) hours of the initial earth disturbance, and soil erosion or sedimentation will not reasonably occur to any adjacent properties or the waters of the state. (See MCL § 324.9115a(l)(e)(v)).

Brief description of the project:

2 of 3

I understand that if a soil erosion and sedimentation control permit OR a waiver of a soil erosion and sedimentation control permit is issued, the above-mentioned property is not exempt from enforcement procedures under Part 91, of Act No. 451 of the Public Acts of 1994, as amended, being MCL § 324.32501 *et. seq.*

I hereby acknowledge that if a soil erosion and sedimentation control permit OR a waiver of a soil erosion and sedimentation control permit is issued, I hereby voluntarily grant the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents permission to enter onto my property as set forth herein to ensure that the project conforms to the reason stated above as to why the proposed project qualifies for a soil erosion and sedimentation permit waiver. I further understand that if I revoke my consent for the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents to enter onto the property set forth herein, the permit waiver is automatically revoked, I will need to resubmit a new soil erosion and sedimentation permit application or waiver certification, and I must cease all earth moving activities on the property.

I further understand that if I continue to perform earth moving activities on the property after revoking my consent for the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents to enter onto the property set forth herein, I may be subject to one or more of the enforcement procedures set forth in Part 91 of Act No. 451 of the Public Acts of 1994, as amended, and the administrative rules promulgated thereunder.

I hereby acknowledge that the information contained herein is truthful and accurate to the best of my knowledge. I understand that if I knowingly make any false statement in this application it may result in a civil fine of not more than \$10,000.00 per day for each violation.

SIGNATURE OF PROPERTY OWNER:

Date Signed:

Printed Name of Property Owner:



CITY OF GRAND BLANC BUILDING DEPARTMENT FEE SCHEDULE

CONTRACTOR LICENSE REGISTRATION FEE - \$15.00

Subject to renewal at time of license expiration. New registration form and license copies required.

NOTE: Any regulated activity started prior to the applicant securing the permit will be charged an administrative charge at the same rate as the required permit fee not to exceed \$100. This shall be paid prior to the issuance of the required permit.

BUILDING PERMIT - CONSTRUCTION FEES (New construction, Additions & Alterations)

VALUES shall be based upon the greater of #1 or #2 as follows:

- 1. Valuation data found in the quarterly "Building Official & Code Administrator Publication" and as amended 5/8/03
- 2. Actual cost of construction when special features and upgrades not typical of normal construction are used

PERMIT FEE CALCULATION INFORMATION – Single Family Dwelling

- 1. The adjusted gross area modifier is 111 for new residential only (as amended 5/8/03)
- 2. Plan review is charged by square feet (see chart below)
- 3. An additional \$80.00 fee is charged for inspections

4. The re-inspection fee is \$80.00, payable prior to additional inspections for that permit

SETBACK/GRADE PERMIT REQUIRED - New Residential Construction

\$100 for the first acre plus \$25 for each additional acre

(exception: Metes and Bounds parcels five (5) acres or larger with single-family residential uses)

BUILDING PERMIT FEE COMPUTATION

Construction Fee Range		ige	Permit Fee Computation Method/Rates		
\$	1.00	to	\$	1,000.00	Base Fee - \$75.00
\$	1,0001.00	to	\$	100,000.00	\$100.00 + \$7.50/\$1,000 or part thereof over \$1,001 construction cost
\$	100,001.00	to	\$	500,000.00	\$842.00 + \$6.50/\$1,000 or part thereof over \$100,001 construction cost
\$	500,001.00	and	1.	OVER	\$4,086.00 + \$6.00/\$1,000 or part thereof over \$500,001 construction cost

TRADE PERMIT FEE COMPUTATION – SEE ADOPTED PERMIT APPLICATION FOR FEE SCHEDU

JUILDING PLAN REVIEW FEES/RESIDENTIAL & COMMERCIAL

Use Group R-3 & R-4 – New Construction and Additions

2,001-3,500 sq. ft.	\$175.00
3,500 sq. ft. and OVI	ER \$(Construction cost x .0006)

Project "minor in nature" (as determined by Building Official)	\$100		
Up to \$500,000.00	0.0019 of building valuation but not less than \$200		
Over \$500,000.00	\$950 + 0.0006 of the building valuation over \$500,000		

*Plan review fees for assembly, institutional uses, mercantile, covered mall, buildings with smoke control systems, motels, hotels and buildings greater than 2 stories shall be 1.5 times the fee as calculated above.

ELECTRICAL, MECHANICAL and PLUMBING - RESIDENTIAL ONLY

3,500 - 5,000 sq. ft.	\$125.00	7,501 sq. ft. and OVER	\$150.00 + \$30/1,000 sq. ft.
5,001-7,500 sq. ft.	\$150.00		

ELECTRICAL, MECHANICAL & PLUMBING - COMMERCIAL ONLY

Plan review – ¼ building plan review amount for EACH trade (\$100 per trade MINIMUM)

FIRE SUPPRESSION – Includes review of Fire Pumps, Hose Stations and Stand Pipes

0-20 Heads	\$110.00	201-300 Heads	\$235.00	
21-50 Heads	\$135.00	301-400 Heads	\$260.00	
51-75 Heads	\$160.00	401-500 Heads	\$285.00	
'6-100 Heads	\$185.00	501 Heads and OVER	\$285 + 0.25 per add'l head	
101-200 Heads	\$210.00			
Construction cost is ba	used on the fee computed for th	ne permits or submitted value, w	hichever is greater.	
Limited Area Fire Suppression System - \$125.00 Fire Suppression System for Hood - \$125.00				

MISCEL	LANEOUS PERMIT FEES					
Demoli	ition			•		
Sheds,	Garages & Accessory Structures	over 100 sq. ft.		\$50.00		
Residential – Dwelling Structures				\$75 + \$5.00/1,000 sq. ft.		
	Required Bond Payment			\$500 Refundable Bond		
Comme	ercial & Industrial Structures			\$125 + \$5.00	/1,000 sq. ft.	
	Required Bond Payment			\$1,000 Refun	dable Bond	
Shed P	ermit – Building OR Planning/Zo	ning as follows		I		
Zoning	Compliance Permit from Plannin	g/Zoning requir	ed for Res	sidential use sh	neds 200 sq. ft. or less	
Zoning	Compliance Permit from Plannin	g/Zoning requir	ed for cor	nmercial/indus	strial sheds 120 sq. ft. or less	
	er sizes sheds/barns require Build					
	Home Set-Up (park Site)	<u> </u>		\$275.00 per site		
	/Excavation Permits	·····			+ \$25 each additional acre	
	g Board of Appeals	<u></u>		\$400.00	· · · · · · · · · · · · · · · · · · ·	
	ed or Voided Permits are subjec	t to the followi	ng fees:			
	strative Fee			\$75.00		
Plan Re					schedule above	
	ions performed prior to voiding	of permit	According to schedule above \$75 for each inspection performed			
	AL INSPECTION INFORMATION			375 for each inspection performed		
	ommonly requested and/or requ	uired inspection	15'			
	tion Inspection	Backfill Inspec			Garage Footing Inspection	
	Rock/Sump & Drainage Insp. Masonry Inspection				Rough Inspection	
	lab/Visqueen			Final Inspection		
	Inspections will be made during			·00 ANA - 5.00	· · · · · · · · · · · · · · · · · · ·	
 	Permit must be secured prior to				Fill, Monday Grough Filday	
<u>с</u>	Any special inspections or re-in				nimum	
D	Overtime inspections: \$80 per		our minim	um		
E	Removal of Stop Work Order: \$	80				
	STED INSPECTION FOR:		- f			
existing	s Structure for Code Violations (*****			
			\$300 eac			
		ily Residential	\$300 eac			
	Commercial/Indu			25/1,000 sq. ft		
	nt of the required fee provides for					
		e of application	n. One ap	pointment will	l be scheduled and all inspections w	
	e simultaneously.	Desident	-1	¢100.00		
Occupancy Inspection Only		Residential		\$100.00	PERMIT REQUIRED PRIO	
(E	Building Inspection Only)	Commercial/Ir		\$250.00	TO SCHEDULING Bond charge is \$2,500 or 110%	
Tempo	rary C of O – Refundable Bond	Resident		\$2,500.00	of value of uncompleted items	
**Tomr	porary Occupancy will not be iss	Commercial/Ir		\$2,500.00	as estimated by Building Offici	
					whichever is greater.	
	Iowing Services Rendered	Up to one (1) a				
	s for debris removal will be char strative Costs:	seu pursuant to	the cont	ract with the s	elected mowing contractor.	
		icor where City	ofGrand	Plane ovnorda	monios from the Constal Fund	
A	15% fee will be added to all invo	nces where city	or grand	Dialic experios	momes nom me General Fund.	



FIRE PREVENTION

NEW CONSTRUCTION PERMIT APPLICATION

Charter Township Of Grand Blanc FIRE PREVENTION BUREAU

5371 South Saginaw Street, P.O. Box 1833, Grand Blanc, MI 48480 Administrative / Inspections: (810) 424-2630 Fax: (810) 424-2631

BUILDING INFORMATION:				
Business/Occupant Name:			<u></u>	Square Footage:
Building Location:	n alan an a	Use Group:		
Building Owner:	er bol de Mandala de la contra construction d'activitation de la construction de la construction de la constru			Construction Type:
APPLICANT INFORMATION:				
Application / Contractor:			Contact Name	
Address:			Busines	s Phone:
a general a service de la companya d		*******	c	ell Phone:
e License Number:		State Regis	stration Number:	
Expiration Date:		E>	piration Date:	
PLAN REVIEW FEE SCHEDULE:				
Fire Suppression Systems - Water		Item #	Total	
0 - 20 Heads	\$100.00		; <u> </u>	
21 - 50 Heads	\$125.00			
51 - 75 Heads	\$150.00			
76 - 100 Heads	\$175.00			
101 - 200 Heads	\$200.00			
201 - 300 Heads	\$225.00			
301 - 400 Heads	\$250.00			Total
 401 - 500 Heads 501 Heads & Above 	\$275.00 \$275.00 Add \$0.20 Per Additio	nal Head \$		Plan Review Fee:
Other Types Of Systems		Item #	Total	
	\$100.00 Per System			
Fire Pumps	\$200.00 Per Pump	9		
Stand Pipes	\$100.00 Per Building			
Fire Alarm Systems	\$100.00 Add \$1.00 Per Device		;	
Hazardous Materials	\$100.00 Add \$10.00 Per 1,000			
Industrial Ovens	\$100.00 Per Oven		·	
Compressed Gases	\$100.00 Add \$10.00 Per 100 S		·	
Painting & Dipping Systems	\$100.00 Per System	3		

All Additional Plan Reviews Are Based On \$100.00 Per Review Plus \$50.00 Per Hour

NEW CONSTRUCTION FEE SCHEDULE:

'omatic F	ire Suppression			Item #	Total	
	Water Riser	\$100.00	Add \$40.00 Per 100 Heads		\$	
	Range Hood System	\$50.00	Per System / Per 20 Heads		\$	
	Other	\$100.00	Per System / Per 20 Heads		\$	
	Fire Pumps	\$100.00	Per Pump		\$	
	Stand Pipes	\$100.00	Per Riser		\$	
						Total
						Permit Fee:
Other Types	Of Systems			Item #	Total	remilt ree.
D	Compressed Gases	\$100.00	Per System		\$	
	Fire Alarm Systems	\$100.00	Add \$1.00 Per Device		\$	
	Flammable Materials	\$100.00	Minimum or SQ FT x \$.009 (Whichever is Greater)		\$	
	Hazardous Materials	\$100.00	Minimum or SQ FT x \$.013 (Whichever is Greater)	·····	\$	
	Industrial Ovens	\$100.00	Per Oven		\$	
	LP Gas Systems	\$100.00	Per System		\$	

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Permit Fee Includes Two (2) Inspections. There Will Be A \$50,00 Fee For Each Additional Inspection Required.

DESCRIPTION OF WORK:		
APPLICANT SIGNATURE:		
Signature:	Date:	
Print Name:		
DISCLOSURE:		
	t Discriminate Against Any Individual Or Group E tional Origin, Color, Martial Status, Handicap Or F	
AUTHORITY Public Act 207 of 1941, As Amended	COMPLETION Mandatory To Obtain Permit	PENALTY Permit Cannot Be Issued
FOR FIRE PREVENTION BUREAU USE ONLY:		
Application Approved As Submitted	Application Denied As Submitted Due To:	
,roval Signature:		Date:

The City will be contracting with individuals to perform electrical, plumbing and mechanical services. No third party or other governmental agency will be contracted with.

AGREEMENT FOR INDEPENDENT BUILDING INSPECTION FOR ELECTRICAL/PLUMBING/MECHANICAL AND SITE PLAN REVIEW SERVICE

This Agreement, entered into this ______ by and between the City of Grand Blanc, a Michigan City, located in Genesee County, Michigan at 203 E. Grand Blanc Road, Grand Blanc, Michigan, hereafter referred to as The City, and ______ referred to as The Independent Contractor for the City of Grand Blanc.

The parties hereby stipulate and agree as follows that:

The Independent Contractor will perform inspection and review services only at the request of the City Building Official.

The Independent Contractor serves at the pleasure of the City Manager. Any code referenced to a "code official" is inapplicable to the Independent Contractor. Any code adopted by the City that refers to a "code official" is inapplicable to the Independent Contractor.

The term of this agreement is for a period of one (1) year from the date of its execution and shall renew annually, unless terminated at any time by The City, the Building Official, or the Independent Contractor.

The Independent Contractor will provide their own tools and vehicles to carry out the duties described below:

The City will pay the contractor fifteen (\$15.00) dollars per hour for any related duties as may be determined from time to time by the Building Official. Residential home plan review will be paid at one half (1/2) of the current Council approved fee schedule. Commercial plan review fees for the Building Inspector shall be paid at one half (1/2) of the current Council approved fee schedule. Commercial plan review fees for the Trade Inspectors (Electrical, Mechanical, and Plumbing) shall be paid at one quarter (1/4) of the current Council approved fee schedule. Should electrical, mechanical and/or plumbing plan review be required for a new house (over 3,500 square feet, meeting the criteria for electrical, mechanical, and/or plumbing plan review), the Trade Independent Contractor will be paid one half (1/2) of the current fee schedule as approved by the City Council.

The Independent Contractor is not a City employee and not eligible for health insurance, worker's compensation, pension or any other benefits.

The Independent Contractor is free to provide similar services to any other municipality or individual, but shall not solicit clients while performing inspections for the City.

This is the entire Agreement between the Independent Contractor and the City.

Acknowledgement:

Signed this ______day of _____, 20____

Independent Contractor:

THE CITY OF GRAND BLANC:

City Manager

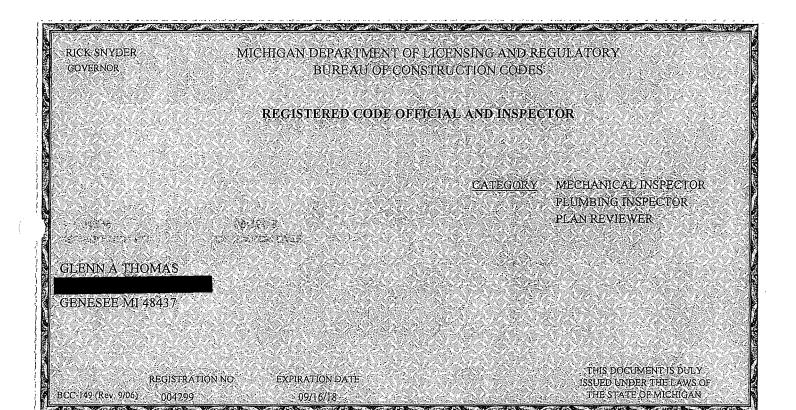
City Clerk

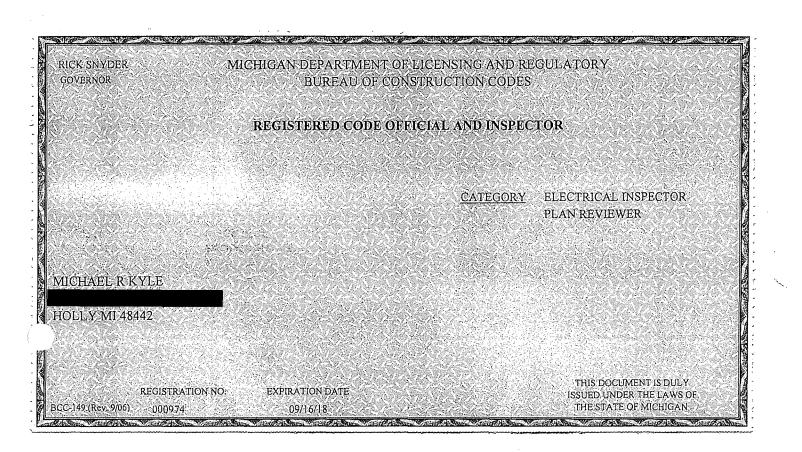
RICK SNYDER MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY NOR BUREAU OF CONSTRUCTION CODES						
		REGISTERED CODE OFFICIAL AND INSPECTOR				
			CATEGORY	BUILDING OFFICIAL BUILDING INSPECTOR PLAN REVIEWER		
THEODORE J	SCZEPANSKI	_				
GRAND BLAN	NC MI 48439					
	REGISTRATION NO.	EXPIRATION DATE		THIS DOCUMENT IS DULY ISSUED UNDER THE LAWS OF		
CC-149 (Rev. 9/06)	002112	09/16/18		THE STATE OF MICHIGAN		

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Jan Thomas

Case cycle





Building Board of Appeals – Appointed by Township Board for 4-year term [from Oct 1 to Sep 30] [On March 24, 1988, the Township Board authorized them to serve for City] Appointments from Township Board Minutes of September 2004 and February 9, 2006. Appointments updated on September 22, 2009. Compensation

*Jeff Bennett (01-98)			FAX 767-1650	1	10-09 to 09-13
Mike Wise (01-98)	Holly 48442	(248)	FAX (248) 634-6646		10-09 to 09-13
	Clarkston, MI 48346				
Steve Edwards (12-95)			FAX		10-12 to 09-16
	Linden, MI 48451		735-8000		
Gregory Goodheart (01-98)				@comcast.net	10-12 to 09-16
	Grand Blanc, MI 48439		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
David Wardine (Reg 09-09) (Alt 01-94)		(248)	FAX (248)	@kiefteng.com	10-12 to 09-16
	Clarkston, MI 48346		625-7110		
Dan Park (Alt) (01-98)			FAX 695-		10-09 to 09-13
	Grand Blanc, MI 48439		6436		_ 0.25°25°25°
Debbie Honea (Alt)			444-0256	@aol.com	
	Flint, MI 48507				-

Election Commission	- Appointed by Township Board [MCL 42.4] State mandates Clerk is the Chairperson of the Election	n Commission with two Trustees
Subject to the Open	Meetings Act. Meets in accordance with State Law – minimal at least once for each election.	No additional compensation.
Appointed	Members	Term
January 12, 2017	Clerk Lane, Trustee Joe Massey, and Trustee Ken Thomas	

Charter Township of Grand Blanc

DRAFT of Boards and Commissions as of January 2017

Page 7

City of Grand Blanc

FOIA Procedures and Guidelines

Preamble: Statement of Principles

It is the policy of the City of Grand Blanc that all persons, except those incarcerated, consistent with the Michigan Freedom of Information Act (FOIA), are entitled to full and complete information regarding the affairs of government and the official acts of those who represent them as public officials and employees. The people shall be informed so that they fully participate in the democratic process.

The City's policy with respect to FOIA requests is to comply with State law in all respects and to respond to FOIA requests in a consistent, fair, and even-handed manner regardless of who makes such a request.

The City acknowledges that it has a legal obligation to disclose all nonexempt public records in its possession pursuant to a FOIA request. The City acknowledges that sometimes it is necessary to invoke the exemptions identified under FOIA in order to ensure the effective operation of government and to protect the privacy of individuals.

Grand Blanc City will protect the public's interest in disclosure, while balancing the requirement to withhold or redact portions of certain records. The City's policy is to disclose public records consistent with and in compliance with State law.

The City Council has established the following written procedures and guidelines to implement the FOIA and will create a written public summary of the specific procedures and guidelines relevant to the general public regarding how to submit written requests to the public body and explaining how to understand a public body's written responses, deposit requirements, fee calculations, and avenues for challenge and appeal. The written public summary will be written in a manner so as to be easily understood by the general public.

Section 1: General Policies

The City Council, acting pursuant to the authority at MCL 15.236, designates the City Clerk/Treasurer as the FOIA Coordinator. He or she is authorized to designate other City staff to act on his or her behalf to accept and process written requests for the City's public records and approve denials.

If a request for a public record is received by fax or email, the request is deemed to have been received on the following business day. If a request is sent by email and delivered to a City spam or junk-mail folder, the request is not deemed received until one day after the FOIA Coordinator first becomes aware of the request. The FOIA Coordinator shall note in the FOIA log both the date the request was delivered to the spam or junk-mail folder and the date the FOIA Coordinator became aware of the request.

The FOIA Coordinator shall review City spam and junk-mail folders on a regular basis, which shall be no less than once a month. The FOIA Coordinator shall work with City Information Technology staff to develop administrative rules for handling spam and junk-mail so as to protect City systems from computer attacks which may be imbedded in an electronic FOIA request.

The FOIA Coordinator may, in his or her discretion, implement administrative rules, consistent with State law and these Procedures and Guidelines to administer the acceptance and processing of FOIA requests.

The City is not obligated to create a new public record or make a compilation or summary of information which does not already exist. Neither the FOIA Coordinator nor other City staff are obligated to provide answers to questions contained in requests for public records or regarding the content of the records themselves.

The FOIA Coordinator shall keep a copy of all written requests for public records received by the City on file for a period of at least one year.

The City will make this Procedures and Guidelines document and the Written Public Summary publicly available without charge. If it does not, the City cannot require deposits or charge fees otherwise permitted under the FOIA until it is in compliance.

A copy of this Procedures and Guidelines document and the City's Written Public Summary must be publicly available by providing free copies both in the City's response to a written request and upon request by visitors at the City's office.

This Procedures and Guidelines document and the City's Written Public Summary will be maintained on the City's website at: <u>www.cityofgrandblanc.com</u>, so a link to those documents will be provided in lieu of providing paper copies of those documents.

Section 2: Requesting a Public Record

No specific form to submit a request for a public record is required. However the FOIA Coordinator may make available a FOIA Request Form for use by the public.

Requests to inspect or obtain copies of public records prepared, owned, used, possessed or retained by the City may be submitted on the City's FOIA Request Form, in any other form of writing (letter, fax, email, etc.), or by verbal request.

Verbal requests for records may be documented by the City on the City's FOIA Request Form.

If a person makes a verbal, non-written request for information believed to be available on the City's website, where practicable and to the best ability of the employee receiving the request, shall be informed of the pertinent website address.

A request must sufficiently describe a public record so as to enable City personnel to identify and find the requested public record.

Written requests for public records may be submitted in person or by mail to any City office. Requests may also be submitted electronically by fax and email. Upon their receipt, requests for public records shall be promptly forwarded to the FOIA Coordinator for processing.

A person may request that public records be provided on non-paper physical media, emailed or otherwise provided to him or her in digital form in lieu of paper copies. The City will comply with the request only if it possesses the necessary technological capability to provide records in the requested non-paper physical media format.

A person may subscribe to future issues of public records that are created, issued or disseminated by the City on a regular basis. A subscription is valid for up to 6 months and may be renewed by the subscriber.

A person serving a sentence of imprisonment in a local, state or federal correctional facility is not entitled to submit a request for a public record. The FOIA Coordinator will deny all such requests.

Section 3: Processing a Request

Unless otherwise agreed to in writing by the person making the request, the City will issue a response within 5 business days of receipt of a FOIA request. If a request is received by fax, email or other electronic transmission, the request is deemed to have been received on the following business day.

The City will respond to a request in one of the following ways:

- · Grant the request.
- · Issue a written notice denying the request.
- · Grant the request in part and issue a written notice denying in part the request.

• Issue a notice indicating that due to the nature of the request the City needs an additional 10 business days to respond for a total of no more than 15 business days. Only one such extension is permitted.

• Issue a written notice indicating that the public record requested is available at no charge on the City's website.

When a request is granted:

If the request is granted, or granted in part, the FOIA Coordinator will require that payment be made in full for the allowable fees associated with responding to the request before the public record is made available.

The FOIA Coordinator shall provide a detailed itemization of the allowable costs incurred to process the request to the person making the request.

A copy of these Procedures and Guidelines and the Written Public Summary will be provided to the requestor free of charge with the response to a written request for public records, provided however, that because these Procedures and Guidelines, and the Written Public Summary are maintained on the City's website at: www.cityofgrandblanc.com, a link to the Procedures and Guidelines and the Written Public Summary will be provided in lieu of providing paper copies of those documents.

If the cost of processing a FOIA request is \$50 or less, the requester will be notified of the amount due and where the documents can be obtained.

If the cost of processing a FOIA request is expected to exceed \$50 based on a good-faith calculation, or if the requestor has not paid in full for a previously granted request, the City will require a good-faith deposit pursuant to Section 4 of this policy before processing the request.

In making the request for a good-faith deposit the FOIA Coordinator shall provide the requestor with a detailed itemization of the allowable costs estimated to be incurred by the City to process the request and also provide a best efforts estimate of a time frame it will take the City to provide the records to the requestor. The best efforts estimate shall be nonbinding on the City, but will be made in good faith and will strive to be reasonably accurate, given the nature of the request in the particular instance, so as to provide the requested records in a manner based on the public policy expressed by Section 1 of the FOIA.

When a request is denied or denied in part:

If the request is denied or denied in part, the FOIA Coordinator will issue a Notice of Denial which shall provide in the applicable circumstance:

- An explanation as to why a requested public record is exempt from disclosure; or
- A certificate that the requested record does not exist under the name or description provided by the requestor, or another name reasonably known by the City; or
- An explanation or description of the public record or information within a public record that is separated or deleted from the public record; and
- An explanation of the person's right to submit an appeal of the denial to either the office of the Mayor or seek judicial review in the Genesee County Circuit Court; and
- An explanation of the right to receive attorneys' fees, costs, and disbursements as well actual or compensatory damages, and punitive damages of \$1,000, should they prevail in Circuit Court.
- The Netice of Deniel shall be signed by the EOIA Coordinator
- The Notice of Denial shall be signed by the FOIA Coordinator.

If a request does not sufficiently describe a public record, the FOIA Coordinator may, in lieu of issuing a Notice of Denial indicating that the request is deficient, seek clarification or amendment of the request by the person making the request. Any clarification or amendment will be considered a new request subject to the timelines described in this Section.

Requests to inspect public records:

The City shall provide reasonable facilities and opportunities for persons to examine and inspect public records during normal business hours. The FOIA Coordinator is authorized to promulgate rules regulating the manner in which records may be viewed so as to protect City records from loss, alteration, mutilation or destruction and to prevent excessive interference with normal City operations.

Requests for certified copies:

The FOIA Coordinator shall, upon written request, furnish a certified copy of a public record at no additional cost to the person requesting the public record.

Section 4: Fee Deposits

If the fee estimate is expected to exceed \$50.00 based on a good-faith calculation, the requestor will be asked to provide a deposit not exceeding one-half of the total estimated fee.

If a request for public records is from a person who has not paid the City in full for copies of public records made in fulfillment of a previously granted written request, the FOIA Coordinator will require a deposit of 100% of the estimated processing fee before beginning to search for a public record for any subsequent written request by that person when all of the following conditions exist:

- The final fee for the prior written request is not more than 105% of the estimated fee;
- The public records made available contained the information sought in the prior written request and remain in the City's possession;
- The public records were made available to the individual, subject to payment, within the time frame estimated by the City to provide the records;
- Ninety (90) days have passed since the FOIA Coordinator notified the individual in writing that the public records were available for pickup or mailing;
- The individual is unable to show proof of prior payment to the City; and
- The FOIA Coordinator has calculated a detailed itemization that is the basis for the current written request's increased estimated fee deposit.

The FOIA Coordinator will not require an increased estimated fee deposit if any of the following apply:

- The person making the request is able to show proof of prior payment in full to the City;
- The City is subsequently paid in full for the applicable prior written request; or
- Three hundred sixty five (365) days have passed since the person made the request for which full payment was not remitted to the City.

Section 5: Calculation of Fees

A fee may be charged for the labor cost of copying/duplication.

A fee will *not* be charged for the labor cost of search, examination, review and the deletion and separation of exempt from nonexempt information *unless* failure to charge a fee would result in unreasonably high costs to the City because of the nature of the request in the particular instance, and the City specifically identifies the nature of the unreasonably high costs.

Costs for the search, examination review, and deletion and separation of exempt from non-exempt information are "unreasonably high" when they are excessive and beyond the normal or usual amount for those services (Attorney General Opinion 7083 of 2001) compared to the costs of the City's usual FOIA requests, not compared to the City's operating budget. (*Bloch v. Davison Community Schools*, Michigan Court of Appeals, Unpublished, April 26, 2011)

The following factors shall be used to determine an unreasonably high cost to the City:

- Volume of the public record requested
- Amount of time spent to search for, examine, review and separate exempt from non-exempt information in the record requested.
- Whether the public records are from more than one City department or whether various City offices are necessary to respond to the request.
- The available staffing to respond to the request.
- Any other similar factors identified by the FOIA Coordinator in responding to the particular request.

The Michigan FOIA statute permits the City to charge for the following costs associated with processing a request:

• Labor costs associated with copying or duplication, which includes making paper copies, making digital copies, or transferring digital public records to non-paper physical media or through the Internet.

• Labor costs associated with searching for, locating and examining a requested public record, when failure to charge a fee will result in unreasonably high costs to the City.

• Labor costs associated with a review of a record to separate and delete information exempt from disclosure, when failure to charge a fee will result in unreasonably high costs to the City.

• The cost of copying or duplication, not including labor, of paper copies of public records. This may include the cost for copies of records already on the City's website if you ask for the City to make copies.

• The cost of computer discs, computer tapes or other digital or similar media when the requester asks for records in non-paper physical media. This may include the cost for copies of records already on the City's website if you ask for the City to make copies.

• The cost to mail or send a public record to a requestor.

Labor costs will be calculated based on the following requirements:

• All labor costs will be estimated and charged in 15-minute increments, with all partial time

increments rounded down. If the time involved is less than 15 minutes, there will be no charge.

• Labor costs will be charged at the hourly wage of the lowest-paid City employee capable of doing

the work in the specific fee category, regardless of who actually performs work.

• Labor costs will also include a charge to cover or partially cover the cost of fringe benefits.

• The City may add up to 50% to the applicable labor charge amount to cover or partially cover the cost of fringe benefits, but in no case may it exceed the actual cost of fringe benefits.

• Overtime wages will not be included in labor costs unless agreed to by the requestor; overtime costs will not be used to calculate the fringe benefit cost.

• Contracted labor costs will be charged at the hourly rate of \$48.90 (6 times the state minimum hourly wage).

The cost to provide records on non-paper physical media when so requested will be based on the following requirements:

• Computer disks, computer tapes or other digital or similar media will be at the actual and most reasonably economical cost for the non-paper media.

• This cost will only be assessed if the City has the technological capability necessary to provide the public record in the requested non-paper physical media format.

• The City will procure any non-paper media and will not accept media from the requestor in order to ensure integrity of the City's technology infrastructure.

The cost to provide paper copies of records will be based on the following requirements:

• Paper copies of public records made on standard letter ($8\frac{1}{2} \times 11$) or legal ($8\frac{1}{2} \times 14$) sized paper will not exceed \$.10 per sheet of paper. Copies for non-standard sized sheets of paper will reflect the actual cost of reproduction. The City will provide records using double-sided printing, if it is cost-saving and available.

The cost to mail records to a requestor will be based on the following requirements:

- The actual cost to mail public records using a reasonably economical and justified means.
- The City may charge for the least expensive form of postal delivery confirmation.
- No cost will be made for expedited shipping or insurance unless specified by the requestor.

If the FOIA Coordinator does not respond to a written request in a timely manner, the City must:

• Reduce the labor costs by 5% for each day the City exceeds the time permitted under FOIA up to a 50% maximum reduction, if *any* of the following applies:

o The City's late response was willful and intentional,

 \circ The written request conveyed a request for information within the first 250 words of the body of a letter facsimile, email or email attachment, or

o The written request included the words, characters, or abbreviations for "freedom of information," "information," "FOIA," "copy" or a recognizable misspelling of such, or legal code reference to MCL 15. 231, et seq. or 1976 Public Act 442 on the front of an envelope or in the subject line of an email, letter or facsimile cover page.

• Fully note the charge reduction in the Detailed Itemization of Costs Form.

Section 6: Waiver of Fees

The cost of the search for and copying of a public record may be waived or reduced if in the sole judgment of the FOIA Coordinator a waiver or reduced fee is in the public interest because it can be considered as primarily benefitting the general public. The City Council may identify specific records or types of records it deems should be made available for no charge or at a reduced cost.

Section 7: Discounted Fees

Indigence

The FOIA Coordinator will discount the first \$20.00 of the processing fee for a request if the person requesting a public record submits an affidavit stating that they are:

· Indigent and receiving specific public assistance, or

• If not receiving public assistance, stating facts demonstrating an inability to pay because of indigence.

An individual is not eligible to receive the waiver if:

• The requestor has previously received discounted copies of public records from the City twice during the calendar year; or

• The requestor requests information in connection with other persons who are offering or providing payment to make the request.

An affidavit is sworn statement. The FOIA Coordinator may make a Fee Waiver Affidavit Form available for use by the public.

Nonprofit organization advocating for developmentally disabled or mentally ill individuals The FOIA Coordinator will discount the first \$20.00 of the processing fee for a request from:

• A nonprofit organization formally designated by the state to carry out activities under subtitle C of the federal developmental disabilities assistance and bill of rights act of 2000, Public Law 106-402, and the protection and advocacy for individuals with mental illness act, Public Law 99-319, or their successors, if the request meets all of the following requirements:

• Is made directly on behalf of the organization or its clients.

 \circ Is made for a reason wholly consistent with the mission and provisions of those laws under

section 931 of the mental health code, 1974 PA 258, MCL 330.1931.

o Is accompanied by documentation of its designation by the state, if requested by the public body.

Section 8: Appeal of a Denial of a Public Record

When a requestor believes that all or a portion of a public record has not been disclosed or has been improperly exempted from disclosure, he or she may appeal to the City Council by filing an appeal of the denial with the office of the City Manager.

The appeal must be in writing, specifically state the word "appeal" and identify the reason or reasons the requestor is seeking a reversal of the denial. The City FOIA Appeal Form (To Appeal a Denial of Records), may be used.

The City Council is not considered to have received a written appeal until the first regularly scheduled City Council meeting following submission of the written appeal.

Within 10 business days of receiving the appeal the City Council will respond in writing by:

- Reversing the disclosure denial;
- Upholding the disclosure denial; or
- Reverse the disclosure denial in part and uphold the disclosure denial in part; or

• Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the City Council shall respond to the written appeal. The City Council shall not issue more than 1 notice of extension for a particular written appeal.

If the City Council fails to respond to a written appeal, or if the City Council upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing a civil action in Circuit Court.

Whether or not a requestor submitted an appeal of a denial to the City Council, he or she may file a civil action in Genesee County Circuit Court within 180 days after the City's final determination to deny the request.

If a court that determines a public record is not exempt from disclosure, it shall order the City to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. Failure to comply with an order of the court may be punished as contempt of court.

If a person asserting the right to inspect, copy, or receive a copy of all or a portion of a public record prevails in such an action, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or City prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements.

If the court determines that the City has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall order the City to pay a civil fine of \$1,000.00, which shall be deposited into the general fund of the state treasury. The court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of \$1,000.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body that is not an individual and that kept or maintained the public record as part of its public function.

Section 9: Appeal of an Excessive FOIA Processing Fee

"Fee" means the total fee or any component of the total fee calculated under section 4 of the FOIA, including any deposit.

If a requestor believes that the fee charged by the City to process a FOIA request exceeds the amount permitted by state law or under this policy, he or she must first appeal to the City Council by submitting a written appeal for a fee reduction to the office of the City Manager.

The appeal must be in writing, specifically state the word "appeal" and identify how the required fee exceeds the amount permitted. The City FOIA Appeal Form (To Appeal an Excess Fee) may be used.

The City Council is not considered to have received a written appeal until the first regularly scheduled City Council meeting following submission of the written appeal.

Within 10 business days after receiving the appeal, the City Council will respond in writing by:

- Waiving the fee;
- Reducing the fee and issuing a written determination indicating the specific basis that supports the remaining fee;
- Upholding the fee and issuing a written determination indicating the specific basis that supports the required fee; or
- Issuing a notice detailing the reason or reasons for extending for not more than 10 business days the period during which the City Council will respond to the written appeal. The City Council shall not issue more than 1 notice of extension for a particular written appeal.

Where the City Council reduces or upholds the fee, the determination must include a certification from the City Council that the statements in the determination are accurate and that the reduced fee amount complies with its publicly available procedures and guidelines and Section 4 of the FOIA.

Within 45 days after receiving notice of the City Council's determination of an appeal, the requesting person may commence a civil action in Genesee County Circuit Court for a fee reduction.

If a civil action is commenced against the City for an excess fee, the City is not obligated to complete the processing of the written request for the public record at issue until the court resolves the fee dispute.

An action shall not be filed in circuit court unless *one* of the following applies:

- The City does not provide for appeals of fees,
- The City Council failed to respond to a written appeal as required, or
- The City Council issued a determination to a written appeal.

If a court determines that the City required a fee that exceeds the amount permitted under its publicly available procedures and guidelines or Section 4 of the FOIA, the court shall reduce the fee to a permissible amount. Failure to comply with an order of the court may be punished as contempt of court.

If the requesting person prevails in court by receiving a reduction of 50% or more of the total fee, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages.

If the court determines that the City has arbitrarily and capriciously violated the FOIA by charging an excessive fee, the court shall order the City to pay a civil fine of \$500.00, which shall be deposited in the general fund of the state treasury. The court may also award, in addition to any actual or compensatory damages, punitive damages in the amount of \$500.00 to the person seeking the fee reduction. The fine and any damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body that is not an individual and that kept or maintained the public record as part of its public function.

Section 10: Conflict with Prior FOIA Policies and Procedures; Effective Date

To the extent that these Procedures and Guidelines conflict with previous FOIA policies promulgated by City Council or the City Administration these Procedures and Guidelines are controlling. To the extent that any administrative rule promulgated by the FOIA Coordinator subsequent to the adoption of this resolution is found to be in conflict with any previous policy promulgated by the City Council or the City Administration, the administrative rule promulgated by the FOIA Coordinator is controlling.

To the extent that any provision of these Procedures and Guidelines or any administrative rule promulgated by the FOIA Coordinator pertaining to the release of public records is found to be in conflict with any State statute, the applicable statute shall control. The FOIA Coordinator is authorized to modify this policy and all previous policies adopted by the City Council or the City Administration, and to adopt such administrative rules as he or she may deem necessary, to facilitate the legal review and processing of requests for public records made pursuant to Michigan's FOIA statute, provided that such modifications and rules are consistent with State law. The FOIA Coordinator shall inform the City Council of any change these Policies and Guidelines.

These FOIA Policies and Guidelines become effective July 1, 2015.

Section 11: Appendix of Grand Blanc City FOIA Forms

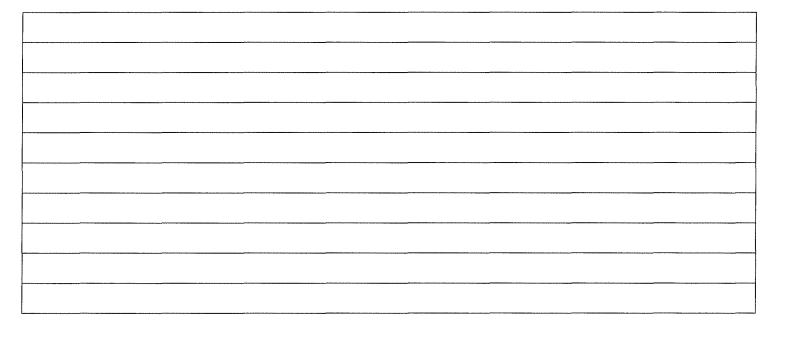
- Request for Public Records Form
- Notice to Extend Response Time Form
- Notice of Denial Form
- Detailed Cost Itemization Form
- Appeal of Denial of Records Form
- Appeal of Excess Fee Form

FOIA Request for Public Records Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231,.

Request No.: Other Electronic Method	Date Received:	Check if r	eceived via: 🛛	Email 🛛 Fax	
		lelivered to junk/sp			
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City		State	Zip		
Request for:□Copyrecord issued on regular basiDelivery Method:□□Email to address above□Deliver on digital media	s pick up □ Will make o	Record inspe wn copies onsite		ubscription to dress above	

Note: The city is not required to provide records in a digital format or on digital media if the city does not already have the technological capability to do so.

escribe the public record(s) as specifically as possible. You may use this form or attach additional sheets:



FOIA Appeal Form—To Appeal a Denial of Records Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231,

`equest No.:	Date Received:	Check if	received via: 🛛 Em	ail 🛛 Fax
☐ Other Electronic Method		Data daliwana dita jumlei	lamana falalaw	
Date of This Notice: (Please Print or Type)		Date <u>delivered</u> to junk/spam folder: Date <u>discovered</u> in junk/spam folder:		
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Street			Email	
City		State	Zip	
Request for:□Copyissued on regular basisDelivery Method:□□Email to address above□Deliver on digital media p	ill pick up □ Will r	nake own copies onsite	e 🛛 Mail to addr	otion to record ress above
Record(s) You Requested: (Li	sted here or see attache	d copy of original request,)	
The appeal must specifically ide attach additional sheets:		n(s) for Appeal: e(s) exceed the amount p	bermitted. You may use	e this form or
Requestor's Signature:			Data	
	Cit	y Response:	Date:	
The City must provide a response one 10-day extension. City Extension: We are extend (month, day Unusual circumstances warranti	se within 10 business da ling the date to respond <i>y, year</i>). Only one extens	ys after receiving this app	or no more than 10 bu	
If you have any questions regard	City E	Determination:		

Denial Reversed Denial Upheld Denial Reversed in Part and Upheld in Part The following previously denied records will be released:

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the City board or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If, after judicial review, the court determines that the City has not complied with CL 15.235 in making this denial and orders disclosure of all or a portion of a public record, you have the right to receive attorneys' fees and damages as provided in MCL 15.240. (See back of this form for additional information on your rights.)

FOIA Appeal Form—To Appeal an Excess Fee Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq*.

`equest No.:	Date Received:	Check i	f received via: 🗆 Email 🗆 Fax 🛛
Other Electronic Method	Det		nk/an ana faldan
Date of This Notice: (Please Print or Type)			nk/spam folder: junk/spam folder:
Name			Phone
Firm/Organization		an di Anno anno an	Fax
Street		*************************************	Email
City		State	Zip
	IP □ Will make own copies ons ided by the city:	site Mail to ac	acription to record issued on regular basis Idress above
The appeal must specifically ide attach additional sheets:	Reason(s) for entify how the required fee(s) exe		permitted. You may use this form or
Requestor's Signature:			Date:
The city must provide a respons one 10-day extension.	City Respo e within 10 business days after		peal, including a determination or taking
	year). Only one extension may		for no more than 10 business days, until IA appeal.
If you have any questions regard	ding this extension, contact:		
City Determination: Written basis for city determinat	ee Waived	🗆 🛛 Fee Up	bheld
You are entitled under Section you believe exceeds the amou commence an action in the Circ a determination of an appeal to	nt permitted under the city's wi uit Court for a fee reduction with the city board. If a civil action is	Information Act, ritten Procedures in 45 days after r commenced in c	al Review MCL 15.240a, to appeal a FOIA fee that and Guidelines to the city board or to eceiving the notice of the required fee or ourt, the city is not obligated to compete armines that the city required a fee that

processing the request until the court resolves the fee dispute. If the court determines that the city required a fee that ceeded the permitted amount, the court shall reduce the fee to a permissible amount. (See back of this form for additional ormation on your rights.)

Signature of FOIA Coordinator: Date

Consent to Non-Statutory Extension of City's Response Time

I have requested a copy of records or a subscription to records or the opportunity to inspect records, pursuant to the shigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq.* I understand that the city must spond to this request within five (5) business days after receiving it, and that response may include taking a 10-business day extension. However, I hereby agree and stipulate to extend the city's response time for this request until: (*month, day, year*).

Requestor's Signature

Date

(Complete both sides)

Records Located on Website

If the city directly or indirectly administers or maintains an official internet presence, any public records available to the general public on that internet site at the time the request is made are exempt from any labor charges to redact (*separate exempt information from non-exempt information*).

If the FOIA coordinator knows or has reason to know that all or a portion of the requested information is available on its website, the city must notify the requestor in its written response that all or a portion of the requested information is available on its website. The written response, to the degree practicable in the specific instance, must include a specific webpage address where the requested information is available. On the detailed cost itemization form, the city must separate the requested public records that are available on its website from those that are not available on the website and must inform the requestor of the additional charge to receive copies of the public records that are available on its website.

If the city has included the website address for a record in its written response to the requestor and the requestor thereafter stipulates that the public record be provided to him or her in a paper format or other form, including digital media, the city must provide the public records in the specified format (if the city has the technological capability) but may use a fringe benefit multiplier greater than the 50%, not to exceed the actual costs of providing the information in the specified format.

Request for Copies/Duplication of Records on City Website

I hereby stipulate that, even if some or all of the records are located on a city website, I am requesting that the city make conies of those records on the website and deliver them to me in the format I have requested above. I understand that a FOIA fees may apply.

Requestor's Signature			Date
	Overtime Labor C	osts	I
Overtime wages shall not be included		costs unless overtime is specifically	y stipulated by the
requestor and clearly noted on the deta			
	Consent to Overtime La		have the adding the s
I hereby agree and stipulate to the city u following categories:	using overtime wages in calci	ulating the following labor costs as it	emized in the
1. Labor to copy/duplicate	2. Labor to locate	3a. Labor to redact	3b. Contract
labor to redact			
6b. Labor to copy/duplicate record	ds already on city's website		
Requestor's Signature			Date
		· · ·	

Request for Discount: Indigence
A public record search must be made and a copy of a public record must be furnished without charge for the first
\$20.00 of the fee for each request by an individual who is entitled to information under this act and who:
1)Submits an affidavit stating that the individual is indigent and receiving specific public assistance, OR
2) If not receiving public assistance, stating facts showing inability to pay the cost because of indigence.
a requester is ineligible for the discount, the public body shall inform the requestor specifically of the reason for
ineligibility in the public body's written response. An individual is ineligible for this fee reduction if ANY of the following
apply:
(i) The individual has previously received discounted copies of public records from the same public body twice
during that calendar year, (ii) The individual requests the information in conjunction with outside parties who are
offering or providing payment or other remuneration to the individual to make the request. A public body may
require a statement by the requestor in the affidavit that the request is not being made in conjunction with outside
parties in exchange for payment or other remuneration.
Office Use:
I am submitting an affidavit and requesting that I receive the discount for indigence for this FOIA request: Date:
Requestor's Signature:
Request for Discount: Nonprofit Organization
A public record search must be made and a copy of a public record must be furnished without charge for the first
\$20.00 of the fee for each request by a nonprofit organization formally designated by the state to carry out activities
under subtitle C of the Developmental Disabilities Assistance and Bill of Rights Act of 2000 and the Protection and
Advocacy for Individuals with Mental Illness Act, if the request meets ALL of the following requirements:
(i) Is made directly on behalf of the organization or its clients.
(ii) Is made for a reason wholly consistent with the mission and provisions of those laws under section 931 of
the Mental Health Code, 1974 PA 258, MCL 330.1931.
(iii) Is accompanied by documentation of its designation by the state, if requested by the township.
Office Use: Documentation of State Designation Received Deligible for Discount
Ineligible for Discount
pulate that I am a designated agent for the nonprofit organization making this FOIA request and that this request is
made directly on behalf of the organization or its clients and is made for a reason wholly consistent with the mission and
provisions of those laws under section 931 of the Mental Health Code, 1974 PA 258, MCL 330.1931:

Requestor's Signature:

Notice of Denial of FOIA Request Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231,

equest No.: Other Electronic Method	Date Received:	Check if re	ceived via: 🛛 Email 🖾 Fax 🛛
Date of This Notice:			pam folder:
(Please Print or Type)		Date discovered in junk	/spam folder:
Name			Phone
Firm/Organization			Fax
Street			Email
City		State	Zip
Request for: Copy	Certified copy	□ Record inspection	Subscription to record
issued on regular basis			
Delivery Method:	bick up 🛛 🗆 Will m	ake own copies onsite	Mail to address above
Email to address above	- provided by the city		
Deliver on digital media			······································
Record(s) You Reques	ted: (Listed here	or see attached	copy of original request)

□ All OR □ Part of your request for records has been denied. Please refer to this form for an explanation. If you have any questions regarding this denial, contact______at

Reason for Denial:

because:___

2. Record Does Not Exist: This item does not exist under the name provided in your request or by another name reasonably known to the city. A certificate that the public record does not exist under the name given is attached. If you believe this record does exist, provide a description that will enable us to locate the record:

□ 3. **Redaction:** A portion of the requested record had to be separated or deleted (redacted) as it is exempt under FOIA Section 13, Subsection ______ (*insert number*), because:

A brief description of the information that had to be separated or deleted:

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the city board or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If, after judicial review, the court determines that the city has not complied with MCL 15.235 in making this denial and orders disclosure of all or a portion of a public record, you have the right to receive 'orneys' fees and damages as provided in MCL 15.240. (See back of this form for additional information on your rights.)

Signature of FOIA Coordinator:

Date:

Notice to Extend Response Time for FOIA Request Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231,

equest No.:	Date Received:	_ Check if received via	a: 🗆 Email 🛛 Fax
山 Other Electronic Me			
	Date delivered		
(Please Print or Type)	Date <u>discover</u>	<u>ed</u> in junk/spam folder	
Name			Phone
Firm/Organization			Fax
Street			Email
City		State	Zip
Request for: issued on regular basi		Record inspection	□ Subscription to record
÷] Will pick up 🛛 Will make c	wn copies onsite	Mail to address above
-	above Deliver on digital	-	
		····· ··· ··· ··· ··· ·· ·· ·· ·· ·· ··	
Record(s) You R	Requested: (Listed here	or see attached	copy of original request)
			· · · · · ·
(month,	date to respond to your FOIA re day, year). Only one extension	may be taken per FO	IA request. If you have any
questions regarding th	is extension, contact		at
	te to Provide Records:		
	te is nonbinding upon the city, I time frame does not relieve a		of the other requirements of this
	Reason fo	or Extension:	
-	search for, collect, or appropried to yo control of the second seco	-	
	•		ield offices, facilities, or other city must coordinate documents

□ 3. Other (describe):

Signature of FOIA Coordinator:



203 E. Grand Blanc Rd. Grand Blanc, MI 48439

City of Grand Blanc

www.city of grandblanc.com

810-694-1118 Fax 810-694-9517

MAYOR Michael N. Matheny

CITY COUNCIL James E. Bappert John A. Freel Connie S. Lesley Susan J. Soderstrom Steven J. Robinson Michael R. Wolfgram

CITY MANAGER Randall D. Byrne

CITY CLERK-TREASURER Bethany J. Smith

FINANCE DIRECTOR-ASST. CITY MGR. Wendy L. Jean-Buhrer

CITY ASSESSOR Marie Collias

CITY ATTORNEY Walter P. Griffin City of Grand Blanc Resolution 02-01-11 Adopting State of Michigan Retention Schedules

WHEREAS, in accordance with MCL 399.5 and MCL 750.491, public records can only be disposed of in accordance with the provisions of an approved Retention and Disposal Schedule; and

WHEREAS, the City of Grand Blanc has been disposing and archiving its records in accordance with a General Record Retention and Disposal Schedule #8 for Cities and Villages approved by the Michigan Department of State on January 17, 1984, and

WHEREAS, the Michigan Department of History, Arts and Libraries, Records Management Services (State Archives); has updated and approved Schedule #8 and has further approved several other retention schedules to meet the administrative, legal fiscal and archival requirements of the State of Michigan; and

WHEREAS, although there is no legal requirement to formally adopt the State of Michigan's approved Retention Schedules prior to implementing, it is highly recommended.

NOW, THEREFORE BE IT RESOLVED, the City of Grand Blanc does hereby adopt the Retention Schedules approved by the Michigan Records Management Services with the exception of Chapter 2 (Airport), Chapter 8 (District Court), Chapter 9 (Fire Department), and Chapter 13 (Parks and Recreation).

BE IT FURTHER RESOLVED, that any amendments to these Retention Schedules or any additional Retention Schedules approved by the Michigan Records Management Services pertinent to public records created and stored by the City of Grand Blanc, are hereby incorporated herein and will need no separate approval prior to implementation.

BE IT FURTHER RESOLVED, that the City Clerk, as "official keeper of the records" shall



MAYOR Michael N. Matheny CITY COUNCIL James E. Bappert

John A. Freel Connie S. Lesley

Susan J. Soderstrom

Steven J. Robinson Michael R. Wolfgram

CITY MANAGER Randall D. Byrne

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FINANCE DIRECTOR-ASST. CITY MGR. Wendy L. Jean-Buhrer 203 E. Grand Blanc Rd. Grand Blanc, MI 48439 www.cityofgrandblanc.com

City of Grand Blanc

810-694-1118 Fax 810-694-9517

- 1. Ensure that all City Departments have a copy of the General Schedules and copies of any agency specific schedules for their use.
- 2. Ensure confidential records are destroyed properly.

Motion by <u>/</u> specit supported by <u>Lenley</u> to approve Resolution 02-01-11. Motion carried.

Adopted this 22nd of February, 2011.

Michael N. Matheny,

Bethany J. Smith, City Clerk

printed on recycled paper

City of Grand Blanc Fee Schedule



Updated 8/12/2015

DEPARTMENT	PERMIT OR SERVICE	Description	FEE OR PRICE PER HOUR
CLERKS OFFICE	COPIES	MISCELLANEOUS	1.00 PER COPY
	WATER BILL		\$1.0
	TAX BILL		\$1.0
	RETURNED CHECK FEE		\$39.00
	NOTARY SERVICES	FOR CITY RESIDENTS ONLY	FREE
	FOIA REQUEST	BASED ON COST OF LABOR PLUS	.05 CENTS PER COPY
	GARAGE SALES	3 DAY PERIOD TWICE PER YEAR	\$5.00
	LAWN MOWING	COST + 50%	VARIES
	PEDDLER PERMIT	INVESTIGATION FEE	\$20.00 each
		PERMIT FEE	\$40 PER WEEK \$100 MO
	GOING OUT OF BUSINESS SALE	INVENTORY LIST REQUIRED	\$50.00 FOR 30 DAYS
	PERFORMANCE BONDS	PERCENTAGE OF COST FOR PROJECT	DETERMINED BY COUNCIL
	COPY OF CHARTER		\$30.00
	COPY OF AUDIT		\$30.00
	COPY OF BUDGET		\$30.00
	PARK PAVILION RENTAL	RUST PARK - RESIDENT	\$75.00
	* DEPOSIT FOR ALL PARKS \$75.00	RUST PARK - NON RESIDENT	\$120.00
		PHYSICIANS PARK - RESIDENT	\$100.00
		PHYSICIANS PARK - NON RESIDENT	\$150.00
WATER DEPT		1	
	GARBAGE BAGS	BOX OF 80	\$20.00
	LAWN & LEAF BAGS	5 IN A PACKAGE	\$2.25
	WATER SHUT OFF	BEFORE 4:00 PM ON DAY OF SHUT OFF	\$50.00
	WATER METER	1" METER	\$275.00
	BULK WATER	EACH 500 GALLONS	\$50.00
	WATER RATES	READY TO SERVE	\$11.00
		PER 100 CUBIC FEET	\$2.50
	SEWER RATES	READY TO SERVE	\$21.50
		PER 100 CUBIC FEET	\$2.96
	GARBAGE COLLECTION	BI-MONTHLY	\$21.60
	WATER TAP -IN	\$800 AFTER 1ST TAP - IN	\$1,500.00
	SEWER TAP- IN	\$800 AFTER 1ST TAP - IN	\$1,500.00
	WATER TAP -IN	DDA DISTRICT AND B-2	\$500.00
	SEWER TAP- IN	DDA DISTRICT AND B-2	\$500.00
	WATER DEPOSIT	FOR RENTER WITH AFFIDAVIT	\$400.00
	RIGHT OF WAY PERMIT		\$500.00
	AUTOMATIC METER READ OPT OUT FEE		\$80.00 PER BILLING PERIOD

Initial fees have been calculated based on estimates of services provided. Beginning in January 2018, fees will be reviewed annually to determine cost coverage.

STILLE-DEROSSETT-HALE SINGLE STATE CONSTRUCTION CODE ACT (EXCERPT) Act 230 of 1972

125.1514 Construction board of appeals; creation; appointment, qualifications, and terms of members; appeal to board; hearing; decision; statement of reasons for decision; appeal to commission; copy of decision; additional powers or duties; procedures; conducting business at public meeting; notice; availability of certain writings to public.

Sec. 14. (1) A construction board of appeals for each governmental subdivision enforcing the code shall be created consisting of not less than 3 nor more than 7 members, as determined by the governing body of the governmental subdivision. Unless otherwise provided by local law or ordinance, the members of the board of appeals shall be appointed for 2-year terms by the chief executive officer of a city, village, or township and the chairperson of the county board of commissioners of a county. A member of the board of appeals shall be qualified by experience or training to perform the duties of members of the board of appeals. A person may serve on the board of appeals of more than 1 governmental subdivision. If an enforcing agency refuses to grant an application for a building permit, or if the enforcing agency makes any other decision pursuant or related to this act, or the code, an interested person, or the person's authorized agent, may appeal in writing to the board of appeals. The board of appeals shall hear the appeal and render and file its decision with a statement of reasons for the decision with the enforcing agency from whom the appeal was taken not more than 30 days after submission of the appeal. Failure by the board of appeals to hear an appeal and file a decision within the time limit is a denial of the appeal for purposes of authorizing the institution of an appeal to the commission. A copy of the decision and statement of the reasons for the decision shall be delivered or mailed, before filing, to the party taking the appeal.

(2) This act does not prevent a governmental subdivision from granting its board of appeals additional powers or duties not inconsistent with this act, or from establishing procedures to be followed by its board of appeals insofar as the procedures do not conflict with this act. Except as otherwise provided by this act, or by other laws or ordinances, a board of appeals may by rules establish its own procedures.

(3) The business which the board of appeals may perform shall be conducted at a public meeting of the board of appeals held in compliance with Act No. 267 of the Public Acts of 1976. Public notice of the time, date, and place of the meeting shall be given in the manner required by Act No. 267 of the Public Acts of 1976.

(4) A record of decisions made by the board of appeals, properly indexed, and any other writing prepared, owned, used, in the possession of, or retained by the board of appeals in the performance of an official function shall be made available to the public in compliance with Act No. 442 of the Public Acts of 1976.

History: 1972, Act 230, Eff. Jan. 1, 1973;—Am. 1977, Act 195, Imd. Eff. Nov. 17, 1977;—Am. 1978, Act 442, Imd. Eff. Oct. 9, 1978.

Popular name: Act 230

Popular name: Uniform Construction Code

AGREEMENT FOR INDEPENDENT BUILDING INSPECTION FOR ELECTRICAL/PLUMBING/MECHANICAL AND SITE PLAN REVIEW SERVICE

This Agreement, entered into this ______ by and between the City of Grand Blanc, a Michigan City, located in Genesee County, Michigan at 203 E. Grand Blanc Road, Grand Blanc, Michigan, hereafter referred to as The City, and ______ referred to as The Independent Contractor for the City of Grand Blanc.

The parties hereby stipulate and agree as follows that:

The Independent Contractor will perform inspection and review services only at the request of the City Building Official.

The Independent Contractor serves at the pleasure of the City Manager. Any code referenced to a "code official" is inapplicable to the Independent Contractor. Any code adopted by the City that refers to a "code official" is inapplicable to the Independent Contractor.

The term of this agreement is for a period of one (1) year from the date of its execution and shall renew annually, unless terminated at any time by The City, the Building Official, or the Independent Contractor.

The Independent Contractor will provide their own tools and vehicles to carry out the duties described below:

The City will pay the contractor fifteen (\$15.00) dollars per hour for any related duties as may be determined from time to time by the Building Official. Residential home plan review will be paid at one half (1/2) of the current Council approved fee schedule. Commercial plan review fees for the Building Inspector shall be paid at one half (1/2) of the current Council approved fee schedule. Commercial plan review fees for the Building Inspector shall be paid at one half (1/2) of the current Council approved fee schedule. Commercial plan review fees for the Trade Inspectors (Electrical, Mechanical, and Plumbing) shall be paid at one quarter (1/4) of the current Council approved fee schedule. Should electrical, mechanical and/or plumbing plan review be required for a new house (over 3,500 square feet, meeting the criteria for electrical, mechanical, and/or plumbing plan review), the Trade Independent Contractor will be paid one half (1/2) of the current fee schedule as approved by the City Council.

The Independent Contractor is not a City employee and not eligible for health insurance, worker's compensation, pension or any other benefits.

The Independent Contractor is free to provide similar services to any other municipality or individual, but shall not solicit clients while performing inspections for the City.

This is the entire Agreement between the Independent Contractor and the City.

Acknowledgement:

Signed this _____day of _____, 20___

Independent Contractor:

THE CITY OF GRAND BLANC:

City Manager

City Clerk

Approved 1/11/2017

JURISC	2015 INTERNATIONAL BUILDING CODE® ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES PLAN REVIEW RECORD	Plan Review # Date: Valuation: Fee:	
BUILDI	NG LOCATION:(Street address)		
REVIEV Numerals in and Usable identified he buildings. T	VED BY:	ding Code (IBC) and ICC/ANSI A117.1-20 In this record is limited to those code section a all code provisions which may be applicate exercising competent judgment in evaluation	ns specifically ble to specific
	CORRECTIONS LIST		Code
No.	DESCRIPTION		Section
			36108

T020357

	CORRECTION LIST (cont'd.)	
No.	DESCRIPTION	Code Section
	A	

	CORRECTION LIST (cont'd.)		
No.	DESCRIPTION	Code Section	
		·	
		- <u> </u>	
		N	
		- <u></u>	

-3-605

ACCESSIBILITY

Note: Numerals indicated in parenthesis are applicable code sections of the International Building Code/2015 (IBC) and ICC/ANSI A117.1-2009 (ICC A117.1) unless otherwise noted. ICC A117.1 section numbers are shown in italics, preceeded by "ICC." Section 1101.2 of the IBC limits the application of ICC A117.1 to the items specifically identified in the code. Items such as accessible telephones and ATM machines, while covered by ICC A117.1, (are not within the prescribed extent of application based on the IBC. As such, these and similar items are beyond the scope of this review.

New Construction		
Occupancy		
Scope (1101.1, 1103.1, 1107.3, 1108.1)		
Areas not required to be accessible		
Building areas (1103.2 - 1103.2.14, 1104.3.1)		
Building levels (1104.3, 1104.3.2, 1104.4, 1107.1, 1108.2.4, 1108.2.9, 1110.4)		
(User Note: Continue with Facility Access and remainder of Review Form)		
Existing Buildings: Change of Occupancy, Alterations and Additions Note: Numerals indicated in parenthesis are applicable code sections of the International Existing Building Code/2015 (IEBC)		
Occupancy		
Scope (IEBC 410.1, 410.6, 410.8, 410.9, 605, 705, 806, 906, 1006, 1012.8, 1105, 1205.15)		
Primary function area/Accessible route (IEBC 410.7, 705.2, 1012.8.2, 1105.1)		
Areas not required to be accessible		
Building areas (IEBC 410.3, 410.9, 1205.15)		
Building levels (IEBC 410.3, 410.9.2)		
Dwelling or sleeping units (IEBC 410.4, 410.4.2, 410.8.6, 410.8.7, 410.8.8, 410.9, 705.1.7, 705.1.8, 705.2, 906.2, 1012.8, 1105.2, 1105.3, 1105.4, 1205.15)		
Technically infeasible (IEBC 202 (definition), 410.4.2, 410.6, 410.8.10, 410.8.11, 410.9, 705.1, 705.1.9 705.1.10, 1012.8.2, 1205.15)		
(User Note: Continue with Facility Access and remainder of Review Form)		

Facility Access

Exterior Accessible Routes

(User Note: For ramps, lifts and elevators, see Vertical Conveyance)

	_ Where required (1009.1, 1009.2, 1104.1 - 1104.3, 1104.5, 1106.6, 1107.4, 1110)	
Route	Criteria (1003.4; <i>ICC 302, 303, 403</i>)	
	Dropoffs (1015.2, 1015.4, 1109.10; <i>ICC 705</i>)	
	Protruding objects (1003.3, <i>ICC 307, 1101.3</i>)	
	Recreational facilities (1110)	
Curb ramps	Location (1003.5; <i>ICC 406.6, 406.8, 406.10, 406.11</i>)	
	Criteria (ICC 406.2 - 406.5, 406.7, 406.10, 406.11)	

Exterior Acce	essible Routes—(continued)
Parking space	s Location (1106.2, 1106.6, 1107.4)
	Number (1106.1 - 1106.5)
	Criteria (1111.1; <i>ICC 502</i>)
Passenger loading zone	Location (1106.7.1 - 1106.7.4)
	Criteria (1111.1; <i>ICC 503</i>)
Accessible E	ntrances
	Criteria (1105.1, 1107.4)
Accessible M	eans of Egress
	Criteria (1009.1 - 1009.5)
	Areas of refuge/Area of rescue assistance (1009.6 - 1009.6.4, 1009.7 - 1009.7.4)
	Communication/Signage (1009.6.5, 1009.8, 1009.9 - 1009.11, 1111.3; <i>ICC 703</i>)
Interior Acces	ssible Routes
	Where required (1009.2, 1104.3, 1104.3.1, 1104.4, 1104.5, 1107.4 <i>ICC 401.1</i>)
	Criteria (1003.4, 1003.5, 1104.6; <i>ICC 302 - 304, 403</i>)
Doors	Clear width and height (1010.1.1, 1010.1.1.1; ICC 404.2.1, 404.2.2, 404.3.1)
	Direction of swing, separation, access (1010.1.2, 1010.1.8; <i>ICC 404.2.3, 404.2.5, 404.3.2, 404.3.4, 405.7.5</i>)
	Hardware (1010.1.9; <i>ICC 404.2.6 - 404.2.10, 404.3.5</i>)
	Threshold (1010.1.5, 1010.1.7, <i>ICC 404.2.4, 404.3.3</i>)
	Dropoffs (1015.2, 1015.5, 1109.10; ICC 705)
	Protruding objects (1003.3, 1012.5.2, 1014.8; ICC 307, 1101.3)
Signage	

_____ Criteria (1013.4, 1111; *ICC 502.7, 703*)

Vertical Conveyance

Ramps
Dimensions (1012.5; <i>ICC 307.5, 405.5, 405.6</i>)
Maximum slope (1012.1, 1012.2, 1012.3, <i>ICC 405.1 - 405.3</i>)
Landings (1012.4, 1012.6; <i>ICC 405.7</i>)
Guards/handrails (1012.8, 1012.9; <i>ICC 405.8, 505</i>)
Edge protection (1012.10; <i>ICC 405.9</i>)
Ramp construction (1003.5, 1012.7; <i>ICC 405.4, 405.10</i>)

Lifts

__ Criteria (1009.2, 1009.5, 1109.8, *ICC 410*)

Elevators

___ Criteria (1009.2.1, 1009.4, 1109.7, 1111.2, 3001.2, 3001.3, *ICC 407, 408*)

Features and Facilities

- _____ Alarms (907.4.2.2, 907.5.2.1, 907.5.2.3; *ICC 702, 1006.3, 1006.4*)
- _____ Storage or locker facilities (1109.9; *ICC 603.4, 803.5, 905*)
- _____ Controls (1109.13, 1109.14; *ICC 309, 404.3.5*)
- _____ Counters and work surfaces (1109.11; *ICC 902*)
- _____ Dressing, fitting and locker rooms (1109.12.1, 1111.1, ICC 803, 903)
- _____ Service counters (1109.12.3; ICC 904.3)
- _____ Check-out aisles (1109.12.2, 1110.1; ICC 904.4)
- _____ Food service lines (1109.12.4; *ICC 308, 309, 904.5*)
- _____ Queuing lines (1109.12.5; ICC 304.3, 403.5, 403.5.1)
- _____ Recreational facilities (1110.1; *ICC Chapter 11*)

Plumbing Facilities — other than within dwelling and sleeping units

_____ Toilet and bathing rooms (1109.2, 1109.2.1, *ICC 305, 306, 309, 603*)

- _____ Family or assisted use toilet and bathing rooms (1109.2.1 1109.2.1.7)
- _____ Water closets (ICC 604, 609)
- _____ Water closet compartments (1109.2.2; ICC 404, 604.9, 609)
- _____ Urinals (1109.2; ICC 605)
- _____ Lavatories (1109.2.3, *ICC 606*)
- _____ Bathtubs (ICC 607, 609, 610.2)
- _____ Showers (ICC 608, 609, 610.3)

_____ Drinking fountains (1003.3.3, 1109.5; *ICC 602*)

- _____ Sinks (1109.3; *ICC 606*)
- _____ Kitchens and kitchenettes (1109.4; ICC 804)

Special Occupancies

Assembly (1108.2, 1109.11)

- _____ Services (1108.2.1; ICC 902, 904)
- _____Listening systems (1108.2.7, 1110.3; *ICC 706*)
- _____ Wheelchair spaces and companion seats (1108.2.2 1108.2.4, ICC 802)
- _____ Lawn seating (1108.2.6)
- _____ Designated aisle seats (1108.2.5; ICC 802.8)
- _____ Performance areas (1108.2.8)
- _____ Dining areas (1108.2.9, 1109.11; *ICC 902*)
- _____ Press boxes (1104.3.2)
 - _____ Self-service storage facilities (1108.3; /CC 905)
 - _____ Judicial facilities (1103.2.13, 1108.4 1108.4.2, 1109.11)

DWELLING UNITS AND SLEEPING UNITS - SCOPING

Gro	oup I-1 (1107.5.1)	_ Total number of units	
	Accessible units	(1107.5.1.1)	
	Units with visible	e alarms (907.5.2.3.2)	
	Type B units (11	07.5.1.2)	
	Exempted units	(1107.7 - 1107.7.5)	
Gro	oup I-2 (1107.5.2, 1107.5.3,	1107.5.4)Total number of units	
	Accessible units	(1107.5.2.1, 1107.5.3.1, 1107.5.4)	
	Yes	_ No - "Intended to be occupied as a residence" ((1102)
	Type B units (11	07.5.2.2, 1107.5.3.2)	
<u></u>	Exempted units	(1107.7 - 1107.7.5)	
Gro	oup I-3 (1107.5.5)	_ Total number of units	
	Accessible units	s (1107.5.5.1, 1107.5.5.2, 1107.5.5.3)	
ential living	facilities (1107.6)		
Gro	up R-1 (1107.6.1)	_ Total number of units	
	Accessible units	(1107.6.1.1)	
	Units with visible	alarms (907.5.2.3.2)	
	Yes	_ No - "Intended to be occupied as a residence" (1102)
	Type B units (110	07.6.1.2)	
	Exempted units	(1107.7 - 1107.7.5)	
Gro	up R-2 live/work units (1107	7.6.2.1) Total number of units	
Gro	up R-2 apartment houses, r	nonasteries and convents (1107.6.2.2)	Total number of units
	Type A units (110	07.6.2.2.1)	
	Units w/ support	for visible alarm notification appliances (907.5.2.	3.3; <i>ICC 1006.4</i>)
	Type B units (110	07.6.2.2.2)	
	Exempted units ((1107.7 - 1107.7.5)	
	up R-2 other than live/work 107.6.2.3)Total	units, apartment houses, monasteries and conve number of units	nts
	Accessible units	(1107.6.2.3.1)	
<u></u>	Units w/ support	for visible alarm notification appliances (907.5.2.	3.3; <i>ICC 1006.4</i>)
	Type B units (110	07.6.2.3.2)	
	Exempted units (1107.7 - 1107.7.5)	

Residential living facilities-(continued)

Group R-3 (1107.6.3, R320.1*) Total number of units
Type B units (1107.6.3)
Exempted units (1107.7 - 1107.7.5)
Group R-4 (1107.6.4) Total number of units
Accessible units (1107.6.4.1)
Type B units (1107.6.4.2)
Exempted units (1107.7 - 1107.7.5)
(*2015 International Residential Code)

Dwelling unit and Sleeping Units - Technical Criteria

Accessible Unit	Ramps (ICC 1003.6)
Primary entrance (1105.1.7, 1107.4; <i>ICC 1002.2</i>)	Elevators and lifts (ICC 1003.7, 1003.8)
Accessible route (ICC 1002.3, 1002.4 Doors and doorways (ICC 1002.5) Windows (ICC 1002.13)	Operable parts (ICC 1003.9) Laundry equipment (ICC 1003.10) Toilet and bathing facilities (ICC 1003.11) Kitchen (ICC 1003.12)
Ramps (ICC 1002.6) Elevators and lifts (ICC 1002.7, 1002 Operable parts (ICC 1002.9) Laundry equipment (ICC 1002.10)	8) Type B Unit Primary entrance (1105.1.7, 1107.4; <i>ICC 1004.2</i>)
Toilet and bathing facilities (ICC 1002 Kitchen (ICC 1002.12) Storage facilities (ICC 1002.14)	
Type A Unit Primary entrance (1105.1.7, 1107.4; ICC 1003.2) Accessible route (ICC 1003.3, 1003.4) Doors and doorways (ICC 1003.5) Windows (ICC 1003.13)	Elevators and lifts (ICC 1004.7, 1004.8) Operable parts (ICC 1004.9) Laundry equipment (ICC 1004.10) Toilet and bathing facilities (ICC 1004.11) Kitchen (ICC 1004.12)

APPENDIX E

Appendices adopted (101.2.1)

_ Compliance verified

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2015 JURISE	2015 INTERNATIONAL RESIDENTIAL CODE® FOR ONE- AND TWO-FAMILY DWELLINGS PLAN REVIEW RECORD	Plan Review # Date: Valuation: Fee:	
	NG LOCATION:		
REVIEV Numerals in in this recor the amount not reference	VED BY: dicated in parenthesis are applicable code sections of the 2015 International Residential d is limited to those code sections specifically identified herein. This recored references and type of detailed information which is typically found on construction documents for ce all code provisions which may be applicable to specific buildings. This record is des e of exercising competent judgment in evaluating construction documents for code com	Code (IRC). The plan review accomplished commonly applicable code sections with d one- and two-family dwellings and townho igned to be used only by those who are kn	lue regard for suses. It does
	CORRECTIONS LIST		
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Item No. 0102PR15

T020336

CORRECTION LIST (cont'd.)		
No.	DESCRIPTION	Code Section
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BUILDING PLANNING (Chapter 3)

DESIGN CRITERIA [Table R301.2(1)]	Parapets and construction
Floor live load (Table R301.5)psf	(R302.2.2, R302.2.3)
Roof live load (Table R301.6)psf	Two-family dwelling separation (R302.3)
Ground snow loadpsf	Dwelling unit penetrations (R302.4)
Ultimate design wind speed mph	Dwelling/garage opening/penetration protec- tion (<i>R302.5</i>)
Wind exposure category (R301.2.1.4)	Dwelling/garage fire separation (R302.6)
High wind design criteria applicable (R301.2.1.1)	Under-stair protection (R302.7)
Seismic design category (SDC)	Wall and ceiling finishes (<i>R302.9</i>)
[Figure R301.2(2)]	Flame spread index (R302.9.1)
SDC C&D provisions (R301.2.2)	Smoke-developed index (R302.9.2)
Weathering	
Frost line depth	Testing (<i>R302.9.3, R302.9.4</i>)
Termite area	Insulation (<i>R302.10</i>)
Decay area	Flame spread/smoke-developed
Winter design temperature	(R302.10.1, R302.10.2)
Ice barrier underlayment required	Cellulose loose-fill and exposed attic
Flood hazards	insulation (<i>R302.10.3, R302.10.4</i>)
FIRE-RESISTANT CONSTRUCTION (R302)	Testing (<i>R302.10.5</i>)
Exterior walls	Fireblocking (R302.11)
[R302.1, Tables R302.1(1) and R302.1(2)]	Draftstopping (R302.12)
Townhouse separation (R302.2)	Fire protection of floors (R302.13)
Continuity and structural independence (R302.2.1, R302.2.4)	Combustible insulation clearance (R302.14)

ROOM PLANNING REQUIREMENTS (R303 through R305)

Use	Area (ft ²)	Width	Ceiling height [†]	Natural light*	Natural ventilation*
Living	70	7'-0"	7'-0"	8% floor area	4% floor area
Dining Kitchen	70 N.A.	7'-0" N.A.	7'-0" 7'-0"	8% floor area 8% floor area	4% floor area 4% floor area
Bedroom	70	7'-0"	7'-0"	8% floor area	4% floor area
Bathroom	N.A.	N.A	6'-8"	3 square feet	1 ¹ / ₂ square feet

* See Sections R303.1 & R303.3 for mechanical ventilation and artificial light and R303.4 for required whole-house mechanical ventilation. † 6'-8" min. at plumbing fixtures and for non-habitable basements.

_____Required heating (R303.9)

SANITATION (R306 and R307)

_____Water closet

____Lavatory

_____Tub or shower

_____Kitchen area with sink

Sanitary sewer (0	Chapter 3	O)
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_____Private disposal (Appendix I)

GLAZING ((R308)
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_____ Identification (R308.1)

_____ Louvered windows or jalousies (R308.2)

- _____Human impact loads/hazardous locations (R308.3, R308.4)
- _____ Skylights and sloped glazing (R308.6)

BUILDING PLANNING (cont'd.)

GARAGES AND CARPORTS (R309)	AUTOMATIC FIRE SPRINKLER SYSTEMS (R313)
Floor surface noncombustible; sloped floor	Townhouses (<i>R313.1</i>)
(<i>R309.1</i>)	One- and two-family dwellings (R313.2)
Carport: open two sides; noncombustible floors; sloped floor (<i>R309.2</i>)	SMOKE ALARMS (R314)
Automatic garage door opener (R309.4)	Referenced standards (R314.1)
Fire sprinklers (R309.5)	Location and interconnection (R314.3, R314.4)
EMERGENCY ESCAPE AND RESCUE OPENINGS	Power source (<i>R314.6</i>)
(R310)	CARBON MONOXIDE ALARMS (R315)
Where required (R310.1)	New construction (R315.1, R315.2)
Areas, height, width, operations (R310)	Existing construction (R315.2.2)
Window wells (<i>R310.2.3</i>)	Referenced standard (R315.6)
Under decks and porches (R310.2.4)	FOAM PLASTIC (R302.8, R316)
Bars, grilles, covers and screens (R310.4)	Labeling (R316.2)
MEANS OF EGRESS (R311)	Surface burning, thermal barrier, specific
General (<i>R311.1</i>)	approval (<i>R316.3 - R316.8</i>)
Egress door (<i>R311.2</i>)	DECAY AND TERMITE PROTECTION (R317 and R318)
Landings at exterior doors <i>(R311.3 - R311.3.3)</i>	Protection required (Table R301.2(1), R317.1, R318.1)
Vertical egress (R311.4)	Quality mark (R317.2 and R318.1.1)
Construction and attachment (R311.5)	SITE ADDRESS (R319)
Hallways <i>(R311.6)</i>	Address numbers (R319.1)
Stairway width, headroom, vertical rise, walk- line (R311.7.1 - R311.7.4)	ACCESSIBILITY (R320)
Stairway treads, risers profiles	Type B dwelling units applicable (R320.1)
(R311.7.5 - R311.7.5.4)	ELEVATORS/PLATFORM LIFTS (R321)
Stairway landings and walking surfaces (R311.7.6, R311.7.7)	Referenced standards (R321.1 - R321.3)
Handrails required (<i>R311.7.8</i>)	FLOOD-RESISTANT CONSTRUCTION (R322)
Handrail height, continuity, grip-size	General (<i>R322.1</i>)
(R311.7.8.1 - R311.7.8.4)	Hazard area and requirements (R301.2.4, R309.3, R322.2, R322.3)
Stairway illumination (<i>R303.7, R311.7.9</i>)	Design professional (R322.3.6)
Special stairways (R311.7.10)	STORM SHELTERS (R323)
Ramp slope, landings, handrails (R311.8)	General/referenced standard (R323.1)
GUARDS AND WINDOW PROTECTION (R312)	SOLAR ENERGY SYSTEMS (R324)
Required for open-sided surfaces, stairs, ramps and landings > 30" above floor/ grade (<i>R312.1.1</i>)	System, installation, access (R324.2 - R324.7)
Height - 36" (R312.1.2)	MEZZANINES (R325)
Opening limitations (<i>R312.1.3</i>)	Area, egress, openness (R325.2 - R325.5)
Window fall protection (R312.2)	SWIMMING POOLS, SPAS AND HOT TUBS (R326)
· · · /	ISPSC (<i>R326.1</i>)

FOUNDATIONS (Chapter 4)

MATERIALS (R402)	Horizontal and vertical reinforcement size and
Wood foundations (R402.1)	spacing [<i>Tables R404.1.2(1) -</i> <i>R404.1.2(8), R404.1.3.2, R404.1.3.3.7</i>]
Concrete, compressive strength (R402.2, R402.3)	Stay-in-place forms (R404.1.3.3.6.1)
FOOTINGS (R403)	SDC D provisions (R404.1.4)
Soil bearing value (R401.4, R403.1)	Height above finished grade (<i>R404.1.6</i>)
Footing width [Tables R403.1(1) - R403.1(3)]	Sill plate size (R404.3)Precast concrete foundation walls (R404.5)
Footing edge thickness; footing projection = 2″ minimum, but ≤ footing thickness (R403.1.1)	Drains required if habitable or usable spaces are below grade* (<i>R405</i>)
Footings in SDC C and D	Soil class <i>(Table R405.1)</i>
(R403.1.2 and R403.1.6.1)	Dampproofing if basements are below grade* (R406.1)
Depth below (outside) grade = 12" minimum; but below frost line (<i>R403.1.4, R403.1.4.1</i>)	Waterproofing if high water table* (R406.2)
Sill plate bolting in concrete/masonry = $\frac{1}{2}$ " di- ameter bolts, within 12" but not less than 7 bolt diameters from ends, 7" embedment	* If uninhabitable, see Under-Floor Space (<i>R408)</i> COLUMNS (R407)
(R403.1.6) Footings adjacent to slopes (R403.1.7)	Protection from decay or corrosion (R407.1 and R407.2)
Frost-protected shallow foundations (R403.3)	Structural requirements (R407.3)
Footings for precast concrete foundations	Anchorage (<i>R407.3</i>)
(R403.4)	Wood columns (minimum 4" square) (R407.3)
FOUNDATION/RETAINING WALLS (R404 - R406)	Steel columns (minimum 3" diameter, Sched-
Masonry foundation walls (R404.1.2)	ule 40 pipe) (<i>R407.3</i>)
Wall height, unbalanced backfill, nominal	UNDER-FLOOR SPACE (R408)
thickness [<i>Tables R404.1.1(1) - R404.1.1(4), R404.1.1(4), R404.1.5.1</i>]	Ventilation (R408.1 and R408.2)
Reinforcement size and spacing [Tables R404.1.1(2) - R404.1.1(4)]	Unvented crawl space (R408.3)
	Access (R408.4)
Concrete foundation walls (R404.1.3)	Removal of debris (R408.5)
Wall height, unbalanced backfill, nominal	Finished grade (R408.6)
thickness <i>[Tables R404.1.2(1) - R404.1.2(8), R404.1.2</i>	Flood resistance (R408.7)

FLOORS (Chapter 5)

WOOD JOISTS AND GIRDERS (R502)	TREATED-WOOD FLOORS (ON GROUND) (R504)
Species and grade (R502.1)	Base course: 4" thick with maximum $\frac{3}{4}$ " (gravel or $\frac{1}{2}$ " crushed stone (<i>R504.2.1</i>)
Joists—Sleeping areas, LL = 30 psf <i>[Table R502.3.1(1)]</i>	Moisture barrier: placed over base course (<i>R504.2.2</i>)
Joists—Nonsleeping areas, LL = 40 psf [Table R502.3.1(2)]	Materials <i>(R504.3)</i>
Cantilevered joists [Tables R502.3.3(1) and R502.3.3(2)]	STEEL FLOOR FRAMING (R505)
Girder and header spans [Tables R602.7(1) - R602.7(3)]	Cold-formed steel; applicability limits; in-line framing (<i>R505.1</i>)
Joists under bearing partitions (R502.4)	Structural framing <i>(R505.2)</i>
Bearing (1.5" minimum on wood or metal; 3" on masonry or concrete) and lapped joists	Corrosion protection (<i>R505.2.2</i>)
(3") <i>(R502.6, R502.6.1)</i>	Identification <i>(R505.2.4)</i>
Lateral restraint and bridging (R502.7, R502.7.1)	Fastening (<i>R505.2.5</i>)
Drilling and notching (R502.8)	Floor construction (R505.3)
Fastening (R502.9)	CONCRETE FLOORS (ON GROUND) (R506)
Framing of openings (R502.10)	Thickness: 3 ¹ / ₂ " minimum; Concrete strength (<i>R506.1</i>)
Wood trusses <i>(R502.11)</i>	
Draftstopping (R502.12)	Support: prepared subgrade; maximum earth fill = 8"; maximum sand or gravel fill = 24" (R506.2.1)
UMBER FLOOR SHEATHING (R503.1)	Base course: 4" graded with 2" maximum
Allowable span (Table R503.1)	aggregate (R506.2.2)
End joints (<i>R503.1.1</i>)	Vapor retarder <i>(R506.2.3)</i>
NOOD STRUCTURAL PANEL SHEATHING (R503.2)	Reinforcement support (R506.2.4)
Grade (<i>R503.2.1</i>)	EXTERIOR DECKS (R507)
Thickness <i>(R503.2.1)</i>	Support, attachment (R507.1 - R507.2.4)
Allowable spans [Tables R503.2.1.1(1) and R503.2.1.1(2)]	Plastic composite materials (R507.3)
Installation [Table 602.3(1)]	Decking/deck joists (R507.4, R507.5)
PARTICLEBOARD UNDERLAYMENT (R503.3)	Deck beams <i>(R507.6)</i>
Grade (<i>R503.3.1</i>)	Deck posts, connections, footings (R507.7.1, R507.8)
Thickness <i>(R503.3.2)</i>	
Installation [Table R602.3(1)]	

WALL CONSTRUCTION (Chapter 6)

WOOD CONSTRUCTION (R602)	Material (<i>R603.2.1</i>)
Construction [Figures R602.3(1) and R602.3(2)] Stud grade (R602.2) Design/construction (R602.3) Stud spacing [R602.3.1, Table R602.3(5)] Interior load-bearing walls (R602.4) Interior nonbearing walls: 2" × 3" at 24" o.c. or 2" × 4" flat at 16" o.c. (R602.5) Drilling and notching—studs (R602.6) Drilling and notching—top plate (R602.6.1) Tables R602.7(1) - R602.7(3) and Figure R602.7.2] Fireblocking (R602.8, R302.11) R602.10.1, R602.10.2) Required length of bracing, method [R602.10.3, R602.10.4, Tables R602.10.3(1) and R602.10.3(3)]	 Corrosion protection (<i>R603.2.2</i>) Identification (<i>R603.2.4</i>) Fastening (<i>R603.2.5</i>) Wall construction (<i>R603.3 - R603.5</i>) Headers (<i>R603.6</i>) Studs, tracks and structural sheathing (<i>R603.7 - R603.9</i>) SHEATHING (R604 and R605) Wood structural panels (<i>R604</i>) Particleboard (<i>R605</i>) MASONRY CONSTRUCTION (R606 - R610) General design (<i>R606</i>) Seismic requirements (<i>R606.12</i>) Glass unit masonry (<i>R607</i>) Exterior concrete wall construction (<i>R608</i>) Exterior windows/doors (<i>R609</i>) Glass unit masonry (<i>R610</i>)
Required length of bracing, method [R602.10.3, R602.10.4, Tables	Exterior windows/doors (R609)

WALL COVERING (Chapter 7)

INTERIOR WALL COVERING (R702)	Wood shakes and shingles (<i>R703.6</i>)
Plaster material (<i>R702.2</i>)	Exterior plaster (<i>R703.7</i>)
Plaster support <i>(R702.2.3)</i>	Stone & masonry veneer (<i>R703.8 & Figure</i> <i>R703.8</i>); Steel angle lintels-4" minimum
Gypsum board materials (R702.3.1)	bearing each end (R703.8.3)
Gypsum board support, application and fas- tening <i>(R702.3.2 - R702.3.7)</i>	Veneer ties: #9 U.S. gage wire or #22 U.S. gage by $7/_8$ corrugated metal; horizontal and vertical spacing; 2.67 square feet
Ceramic tile (<i>R702.4</i>)	maximum area supported (wind > 30 psf
Other finishes (R702.5 and R702.6)	and SDC C or D, maximum area = 2 square feet) <i>(R703.8.4.1)</i>
Vapor retarders (<i>R702.7</i>)	Flashing (<i>R703.4 and R703.8.5</i>)
EXTERIOR WALL COVERING (R703)	Exterior insulation and finish systems (<i>R703.9</i>)
Water-resistive barrier (R703.2)	Fiber cement siding <i>(R703.10)</i>
Attachment and minimum thickness [Table R703.3(1)]	Vinyl siding (<i>R703.11</i>)
Wood siding <i>(R703.5)</i>	Other sidings <i>(R703.12 - R703.17)</i>

ROOF-CEILING CONSTRUCTION (Chapter 8)

Species and grade
Span
Size
RAFTERS [Tables R802.5.1(1) - R802.5.1(8)]
Ground snow load/LL = 20 psf
Controlling design (LL or snow)Ceiling not attached/ceiling attached
Spacing
Species and grade
Span
Size
H _c /H _R ; Adjustment factor
ROOF SHEATHING (R803.2)
Grade
Thickness
FRTW allowable stresses/grading
Allowable spans [Table R503.2.1.1(1)]
Installation (R803.2.3)

ROOF-CEILING CONSTRUCTION (cont'd.)

	Dect exact writer (D201.2)
STEEL ROOF FRAMING (R804)	Roof construction (R804.3)
General (<i>R804.1</i>)	Roof tie-down <i>(R804.3.8)</i>
Structural framing (R804.2)	ROOF VENTILATION (R806)
Material (<i>R804.2.1</i>)	Ventilation requirements (R806.1 - R806.5)
Corrosion protection (<i>R804.2.2</i>)	ATTIC ACCESS (R807)
Identification (<i>R804.2.3</i>)	Access requirements (807.1)
Fastening (<i>R804.2.5</i>)	
ROOF ASSEMB	LIES (Chapter 9)
ROOF CLASSIFICATION (R902)	Metal roof panels (R905.10)
Roof covering materials (R902.1)	Modified bitumen roofing (R905.11)
WEATHER PROTECTION (R903)	Thermoset single-ply roofing (R905.12)
Flashing (R903.2)	Thermoplastic single-ply roofing (R905.13)
Coping (<i>R903.3</i>)	Sprayed polyurethane foam roofing (R905.14)
Roof drainage (<i>R903.4</i>)	Liquid-applied roofing (R905.15)
MATERIALS (R904)	Photovoltaic shingles (R905.16)
Compatibility; specifications; physical charac- teristics; identification (R904.2 - R904.4)	ROOF INSULATION (R906)
	General <i>(R906.1)</i>
REQUIREMENTS FOR ROOF COVERINGS (R905)	ROOFTOP - MOUNTED PHOTOVOLTAIC SYSTEMS
Underlayment (<i>R905.1.1, R905.1.2</i>)	(R907)
Asphalt shingles (R905.2)	Materials and installation (R907.1 - R907.5)
Clay and concrete tile (R905.3)	REROOFING (R908)

_____ Materials and methods (R908.1)

_____ Structural support (R908.2)

_____ Replacement/re-covering (R908.3, R908.4)

ROOFTOP - MOUNTED PHOTOVOLTAIC PANEL SYSTEMS (R909)

_____ Materials and installation (R909.1 - R909.3)

CHIMNEYS AND FIREPLACES (Chapter 10)

_____Metal roof shingles (R905.4)

____Slate shingles (R905.6) ____Wood shingles (R905.7)

_Wood shakes (R905.8)

___Built-up roofs (R905.9)

_Mineral-surfaced roll roofing (R905.5)

MASONRY FIREPLACES (R1001)	Hearth extension (R1001.9, R1001.10)
Construction (Figure R1001.1 and Table R1001.1)	Fireplace clearance (R1001.11)
	Fireblocking (<i>R1001.12</i>)
SDC D reinforcing/anchorage (R1001.3 and R1001.4)	MASONRY CHIMNEYS (R1003)
Firebox walls and dimensions <i>(R1001.5 and R1001.6)</i>	Construction (Table R1001.1, R1003.2, R1003.3, and Figure R1001.1)
Steel fireplace units (R1001.5.1)	Corbeling (<i>R1003.5</i>)
Lintel (noncombustible) (R1001.7)	

CHIMNEYS AND FIREPLACES (cont'd.)

Changes in dimension (R1003.6)	Chimney clearance (R1003.18)
Additional load (R1003.8)	Fireblocking (<i>R1003.19</i>)
Termination (<i>R1003.9</i>)	Chimney crickets (R1003.20)
Spark arrestors (<i>R1003.9.2</i>)	FACTORY-BUILT FIREPLACES (R1004)
Wall thickness; $\ge 4"$ (<i>R1003.10</i>)	Listed and labeled (R1004.1)
Flue lining - material/installation (R1003.11 and R1003.12)	Installation (R1004.2 - R1004.5)
Multiple flues (R1003.13)	FACTORY-BUILT CHIMNEYS (R1005)
Flue area (appliance) (<i>R1003.14</i>)	Listed and labeled (R1005.1)
Flue area (masonry fireplace) (R1003.15)	Installation (<i>R1005.3 and R1005.4</i>)
Inlet (<i>R1003.16</i>)	EXTERIOR AIR SUPPLY (R1006)
Cleanout opening (<i>R1003.17</i>)	Intake size (<i>R1006.2</i> , <i>R1006.4</i>)

ENERGY EFFICIENCY (Chapter 11)

Compliance; information	Electrical (N1104)
(N1101.5, N1101.13)	Simulated performance (N1105)
Climate zone (Table N1101.7)	
Building thermal envelope (N1102)	ERI compliance alternative (N1106)
	Existing buildings (N1107 - N1111)
Systems <i>(N1103)</i>	

MECHANICAL (Chapters 12-23)

Appliance labeling (M1302, M1303)	Chimney and vent location and terminations <i>(Chapters 10 and 18)</i>
Appliance access (M1305, M1401)	Special equipment (Chapter 19)
Appliance installation (M1307)	Boilers/water heaters (Chapter 20)
tions (Chapter 14)	Hydronic piping <i>(Chapter 21)</i> Special piping and storage systems
Exhaust systems (Chapter 15)	(Chapter 22)
Duct systems (Chapter 16)	Solar thermal energy systems (Chapter 23)
Combustion air <i>(Chapter 17)</i>	Penetrations of fire-resistance rated assemblies (R302.4, R302.5)

FUEL GAS (Chapter 24)

Application (G2401.1)	Clearances (G2409)
General regulations (G2404)	Electrical and electrical bonding
Appliance location (G2406)	(G2410, G2411)
Air requirements (G2407)	Pipe sizing <i>(G2413)</i>
Installation (G2408)	Piping materials <i>(G2414)</i>

FUEL GAS (cont'd)

Piping installation (G2415 and G2419)

Venting (G2425 - G2429)

Piping support (G2418 and G2424)

Misc appliances

Valves, controls, connections (G2420, G2421 and G2422) (G2423, G2430 - G2454)

PLUMBING (Chapters 25-33)

Water service location and depth	Freezing protection (P2904.2.3)
(P2603, P2604)	Sprinkler coverage (P2904.2.4)
Sanitary and storm sewer location and depth (P2603, P2604)	Piping materials (P2904.3)
Piping support (Table P2605.1)	Flow rates (P2904.4.1, P2904.4.2)
Listed plastic materials (P2609)	Water supply capacity (P2904.5.2)
Plumbing fixtures (Chapter 27)	Pipe sizing <i>(P2904.6)</i>
Water heater size and location (Chapter 28)	Drain, waste and vent pipe sizing and riser diagram (P3004, P3005, Chapter 31)
Water supply and distribution system-design and calculations (Chapter 29)	Sumps and ejectors (P3007)
Dwelling unit fire sprinkler systems (P2904)	Backwater valves (P3008)
NFPA 13D system (<i>P2904.1</i>)	Fixture traps <i>(P3201)</i>
Temperature rating	Storm drainage (Chapter 33)
(P2904.2.1, P2904.2.2)	Penetrations of fire-resistance rated assemblies (R302.4, R302.5)

ELECTRICAL (Chapters 34-43)

Penetrations of fire-resistance rated assemblies (E3402.2) Listed and labeled materials (E3403)	Wiring methods <i>(Chapter 38)</i> Required lighting and receptacle outlets <i>(E3901, E3903)</i>
Service equipment and location (E3405, E3601, E3606)	Ground-fault and arc-fault circuit-interrupter protection <i>(E3902)</i>
Service size and load calculations (E3602)	Devices and lighting fixtures (Chapter 40)
Available fault current (E3606)	Appliance installation (Chapter 41)
System grounding (E3607)	Swimming pools (Chapter 42)
Required branch circuits (E3703)	Class 2 remote-control, signaling and power-
Feeder requirements and load calculations (E3704)	limited circuits (<i>Chapter 43</i>)

MANUFACTURED HOUSING USED AS DWELLINGS (Appendix E)

Provisions adopted (R102.5)

Compliance with Appendix E verified

PASSIVE RADON GAS CONTROLS (Appendix F)

Provisions adopted (R102.5)	Compliance with Appendix F verified		
PATIO COVERS (Appendix H)			
Provisions adopted (R102.5)	Compliance with Appendix H verified		
PRIVATE SEWAG	GE DISPOSAL (Appendix I)		
Provisions adopted (R102.5)	Compliance with Appendix I verified		
EXISTING BUILDINGS	AND STRUCTURES (Appendix J)		
Provisions adopted (R102.5)	Compliance with Appendix J verified		
SOUND TRAN	SMISSION (Appendix K)		
Provisions adopted (<i>R102.5</i>)	Compliance with Appendix K verified		
HOME DAY CARE—F	R-3 OCCUPANCY (Appendix M)		
Provisions adopted (R102.5)	Compliance with Appendix M verified		
	CULAR GATES (Appendix O)		
Provisions adopted (R102.5)	Compliance with Appendix O verified		
SOLAR-READY PROVISIONS (Appendix U)			
Provisions adopted (R102.5)	Compliance with Appendix U verified		
	NOTES		

`

Name of Permit Holder:	Permit #:
Address/Lot #:	
Inspector:	Date of Inspection:
Weather Condition:	Time of Inspection:
1. GENERAL FRAMING	5. INTERIOR WALLS
1.1 Approved plans and specifications on site	□ 5.1 Bearing
1.2 Rooms and corridors: type, arrangement,	□ 5.2 Non bearing
dimensions, egress and special requirements	□ 5.3 Bottom and top plates
1.3 Windows and doors: type, location, dimensions, framing of openings, egress	□ 5.4 Studs
dimensions, framing of openings, egress	5.5 Corners and partition posts
and special requirements	5.6 Lateral supports
1.4 Framing materials: type, size, dimensions,	5.7 Bracing and blocking
span, condition, grade, location, spacing	5.8 Framing of openings
and alignment	
□ 1.5 Sheathing materials: type, size, dimensions,	6. ROOF
span, condition, grade, location, spacing	G.1 Slope/pitch
1.6 Connection and fastening materials: type,	G.2 Bearing points
size, dimensions, gauge, condition,	□ 6.3 Rafters
placement and spacing	□ 6.4 Ridge
1.7 Splices, cuts, notching and bored holes	
1.8 Wood decay and termite protection	6.6 Lateral supports
1.9 Corrosion protection	□ 6.7 Bracing and blocking
	G.8 Ties and straps
2. SILL	□ 6.9 Overhang/soffit and fascia
2.1 Sill plate	6.10 Framing of openings
2.2 Sill bolts	G 6.11 Sheathing
2.3 Sealer/grout	G 6.12 Flashing
2.4 Band/rim joist	G 6.13 Ventilation
2.5 Laps, splices, blocking	G 6.14 Attic access
3. FLOORS AND CEILING	7. ROOF AND FLOOR TRUSSES
3.1 Columns	☐ 7.1 Engineering calculations and drawings
3.2 Beams/girders	on site
J 3.3 Bearing points	7.2 Manufacturer's installation specification
3.4 Joists and span	on site
3.5 Joist hangers	7.3 Number, sizes, location and span
3.6 Lateral support	☐ 7.4 Bearing points
3.7 Bracing and blocking	□ 7.5 Truss plates and connectors
□ 3.8 Framing of openings	□ 7.6 Lateral support
3.9 Sheathing	☐ 7.7 Bracing and blocking
3.10 Ventilation	☐ 7.8 Ties and straps
	7.9 No field modifications
4. EXTERIOR WALLS	
4.1 Bottom and top plates	8. STAIRWAYS
4.2 Studs	\square 8.1 Rise and run
4.3 Outside corners	\square 8.2 Width
1 4.4 Lateral supports	□ 8.3 Headroom
4.5 Bracing and blocking	□ 8.4 Treads and risers
1 4.6 Framing of openings	□ 8.5 Winders
☐ 4.7 Ties and straps	□ 8.6 Landings
\Box 4.8 Sheathing	\square 8.7 Handrails
J 4.9 House wrap	
□ 4.10 Flashing	
LI ALLO TRASILING	135.1

6

Note any comments on reverse side.

To reorder INSPECT IT! forms, call the International Code Council at 1-888-422-7233, ext. 33801. Copyright 2000.

9. FIRE AND DRAFT STOPPING

- 9.1 Pipes
- □ 9.2 Conduits
- 9.3 Chases
- □ 9.4 Soffits
- 9.5 Stairs
- 9.6 Concealed spaces
- 9.7 Horizontal or vertical spaces

10. COMMON WALLS — FIRE RESTRICTIVE CONSTRUCTION

- 10.1 Fire ratings of floors, ceilings and wall assemblies
- 10.2 Fire ratings of equipment, elements and material in the assembly cavity
- 10.3 Maximum size, location and placement of openings (i.e. metallic electrical boxes)
- 10.4 Continuity of assemblies

Checklist #: COMMENTS:

- 10.5 Parapets
- 10.6 Units structurally independent
- 10.7 Treatment of penetrations and openings in plumbing and mechanical assemblies to maintain ratings
- 10.8 Sound transmission ratings and elements

11. MASONRY EXTERIOR WALLS AND COVERINGS

- □ 11.1 Solid
- □ 11.2 Veneer
- □ 11.3 Corners
- □ 11.4 Wall openings
- □ 11.5 Anchorage
- □ 11.6 Horizontal and vertical supports
- □ 11.7 Tie and lintels
- □ 11.8 Mortar/grouting
- 11.9 Moisture barriers and weep holes
- □ 11.10 Joints
- 11.11 Flashing

12. MASONRY FIREPLACE

- □ 12.1 Clearance to combustibles
- 12.2 Hearth extension and surround

13. PREFABRICATED FIREPLACE

13.1 Per manufacturer's specifications and installation instructions

14. OTHER AREAS INSPECTED

] 14.1	
1 14.2	
1 14.3	
J 14.5	

_	
-	
-	

INSPECTION RESULTS:

□ Approved

oved 🛛 Re-inspection required

Stop work

Approved with corrections

To reorder INSPECT IT! forms, call the International Code Council at 1-888-422-7233, ext. 33801. Copyright 2000.

	Ad	dress/	Lot #:				
	Ins	pecto	r;	-		Date of Inspection:	
	Weather Condition:						
	1	GEN	ERAL BUILDING	4	ROC)F	
	ñ	1.1	Permit posted on site	ñ	4.1	Anchorage, support, attachment and	
⊨.	D		Approved plans and specifications on site	D.	T.1	fasteners	
\$	H		All aspects of the building exterior and		4.2	Flashing	
3	5	1.5	interior for compliance with approved	ă	4.3		
2			plans, specifications and code requirements	H	4.4		
-INAL BUILDING INSPECTION CHECKLIST	σ	1.4	Materials: type, location, size, condition and installation	D	4.5		
E.		1.5		5.	INT	ERIOR WALL, FLOOR AND	
0	9	312	dimensions, gauge, condition, placement	-		LING COVERINGS	
2			and spacing		5.1	Insulation: type, location, rating, condition	
0		1.6		-	2.4	and installation	
2	-	1.0	walls, floors, ceilings and roof		5.2	Anchorage, support, attachment and	
0		1.7	C .	1.1	9.4	fasteners	
III I	U	1./	plumbing, mechanical and electrical		5.3	Flame spread and smoke rating	
0					5.4		
5	-	1 0	fixtures, equipment and controls				
2			Caulking and sealing		5.5	0	
-			Acceptable workmanship		5.6	Trim materials and installation	
2			House numbers	1	DO	ODE AND WINDOWS	
5			Exterior and interior cleanup		12 -0.1	ORS AND WINDOWS	
9			Energy and water conservation measures		6.1	Location and type	
1	U	1.15	Final approvals by plumbing, mechanical		6.2	Dimensions	
5			and electrical inspectors		6.3	Door swings	
00	2	DDA	INAGE		6.4	Installation and operability	
-1	2.				6.5	Glazing in hazardous locations	
A		2.1	Backfill and final grading: maximum	-	10	requirements	
2			height against foundation, minimum slope		6.6	Emergency egress requirements	
ir i			from foundation, type of soil, layered and		6.7	Required glazing label and identification	
	-	2.2	tamped	g	6.8	Skylights and sloped glazing requirements	
-	Q	2.2	Direction of drainage flow from		6.9	Hardware and security locks	
111			foundation, adjoining properties and	g	6.10		
	-	2.2	public areas		6.11		
INSPECT		2.3	Gutters: type, location, anchorage,			Sealants/caulking	
(1)			support, attachment, fasteners, down		6.13	Weather-stripping	
in l			spouts, tails and drainage flow	-	-	EWORK	
2	-	DVT	COLOR WALLS AND COLORDING	7.		FWORK	
-	3.		ERIOR WALLS AND COVERING			veways, walks, terraces, patios, basement	
2		3.1	Insulation: type, location, rating, condition	-		s, garage floors, etc.)	
2	-	2.2	and installation		7.1	Location: exterior, interior and placement	
5		3.2	Anchorage, support, attachment, fasteners,	1.1		per approved plans	
	-		and ratings (insulation, flame spread, etc.)		7.2	Concrete installation: site preparation, fill,	
		3.3	Moisture control			minimum fill depth, approved base course,	
		3.4	Painting and staining			vapor barrier, minimum compressive	
	D	3.5	Trim materials and installation	12	-	strength and minimum thickness of slab	
	D	3.6	Corrosion protection		7.3	Weather exposure: compressive strength,	
	0	3.7	Finished surface conditions			air-entrained and approved concrete mixture for exposure to de-icing chemicals	

Note any comments on reverse side.

- 7. FLATWORK (continued)
- □ 7.4 Expansion and control joints
- 7.5 Finished surface condition and texture
- □ 7.6 Sloped to facilitate drainage of liquids
- 8. STAIRWAYS
- □ 8.1 Location and type
- □ 8.2 Size and width
- □ 8.3 Headroom
- 8.4 Anchorage, support, attachment and fasteners
- 8.5 Dimension of treads and risers
- 8.6 Dimensions of winders, spiral stairs and circular stairways
- 8.7 Landings: location and dimensions
- 8.8 Illumination requirements
- □ 8.9 Under stair protection

9. HANDRAILS AND GUARDRAILS

- 9.1 Location: exterior or interior
- 9.2 Anchorage, support, attachment and fasteners
- 9.3 Minimum and maximum height installation
- 9.4 Continuous construction
- 9.5 Handgrip surface and size
- 9.6 Intermediate rails: required locations, opening limitations and restricted horizontal installation (ladder effect)

10. DECKS, PATIOS, PORCHES AND BALCONIES

- 10.1 Location and dimensions
- 10.2 Columns and/or beams/girders
- 10.3 Anchorage and support
- 10.4 Joist hangers
- □ 10.5 Stair, handrails and/or guardrails

11. SAFETY REQUIREMENTS

- 11.1 Smoke detectors: type, location, installation and operability
- II.2 GFCI: locations, installation and operability
- 11.3 Fire resistance type, materials, location, clearances and installation (fireplaces, common walls, floors and ceiling, etc.)
- □ 11.4 Spark arrester/chimney cap
- 11.5 Plumbing, mechanical and electrical systems
- 11.6 Pools, hot tubs and saunas
- 11.7 Light and ventilation: natural or artificial
- 11.8 Fire and draft stopping

12. OTHER AREAS INSPECTED

- 12.1 Retaining walls
- □ 12.2 Ramps
- □ 12.3 ____
- □ 12.4 ____
- 12.5

Checklist #:	COMMENTS:	
1.1.2		

INSPECTION RESULTS:

□ Approved

Re-inspection required

Stop work

Approved with corrections

Plan review process for the City of Grand Blanc

Two complete sets of construction documents shall be submitted for review before building or trade permits will be issued.

A site plan drawn to scale shall be submitted with all documents for review.

After all applications have been properly completed and submitted, they will be reviewed and either approved, or returned with a revision list of information needed. All construction documents shall be reviewed within twelve (12) business days of an approved submittal for plan review.

All construction documents shall be submitted by a "Design Professional In Charge".

Complete plan review fees shall be paid at the time of submittal.

Plan reviews will not be required for the following:

Building

- When the work is determined by the building official to be of a minor nature.
- When accessory structures are 100 square feet or less.

Electrical

• When the electrical system does not exceed 400 amps and the building is not over 3,500 square feet in area.

Mechanical

- One-and-two-family dwellings when the total building heating/cooling system input rating is 375,000 Btu's or less.
- Alterations and repair work determined by the mechanical official to be minor.
- Business, mercantile, and storage buildings having HVAC equipment only, with one fire area and not more than 3,500 square feet.

• Work completed by a governmental subdivision or state agency costing \$1,500.00.

Plumbing

• One-and-two-family dwellings containing not more than 3,500 square feet of building area.

- Alterations or repair work determined by the plumbing official to be minor.
- Assembly, business, mercantile and storage buildings with a required plumbing fixture count less than 12.
- Work completed by a governmental subdivision or state agency costing less than \$1,500.00.

Any questions regarding plan review services shall be submitted to City of Grand Blanc Building Department at 810-694-1118

MECHANICAL PERMIT APPLICATION - CITY OF GRAND BLANC



CITY OF GRAND BLANC, Building Department, 203 E. Grand Blanc Road, Grand Blanc, MI 48439

Phone: (810) 694-1118 Fax: (810) 694-9517

	APPLIC	ANT IS:	_	CONT	RACTOR	2		HOME	OWNER	
I. JOB LOCATION										
JOB LOCATION (STREET NO. AND	D NAME)		CITY:	FLINT	GRAND	BLANC /	HOLLY	SUBDIVISIO	N	LOT NO.
OWNER'S NAME	1.00						TOWNSHIP GR BLANC	COUNTY	HAS A BUILDING PERMIT	BEEN OBTAINED FOR THIS PROJECT?
II. CONTRACTOR/HOMEON	WNER INFORM	ATION:					-			
NÄME									AUTHORITY: P.A.230 O COMPLETION: MANDAT	F 1972, AS AMENDED ORY TO OBTAIN PERMIT
ADDRESS (STREET NO. AND NAM	1E)					1.00			PENALTY: PERMIT C	ANNOT BE ISSUED
CITY				STATE		ZIP CODE			State License No.	Expiration Date
SOCIAL SECURITY NUMBER or FE EXEMPTION)	EDERAL ID NO. (OR	REASON FOR	2	TELEPHONE	NUMBER				State Registration No.	Local License Jurisdiction
WORKERS COMPENSATION INSU EXEMPTION)	RANCE CARRIER	(OR REASON F	OR	MESC EMPL	YR NO. (OR	REASON FOR	EXEMPTION)		Local License Number	Expiration Date
III. TYPE OF JOB										
Single Family Other	New Alteration			ecial Insp P Tank					t (State Approved) (HUD Mobile Home)	State Owned School
What is the input rating of the in the building?	heating system	What is the feet?	building size	e in square	A Yes	ir Conditioni No	ng?	Yes	Have plans bee No Not I	en submitted? Required
V. PLAN REVIEW REQUIR	ED						Carlos and			
See below for plan review r building heating/cooling syste	requirements b em exceeds 375	,000 Btu's.								wellings when the input rating of the
as amended, and shall bear t 1. O 2. Al 3. Bu	hat architect's o ne- and two-fam Iterations and re	r engineer's nily dwellings pair work de ntile, and stor by a governn	signature a when the t termined by rage buildin nental subd	nd seal, ex total buildin y the mech gs having l ivision or s	cept: g heating/ anical offic HVAC equ tate agenc	cooling syste ial to be of a ipment only, y costing les	em input rati a minor natu with one fir ss than \$15,	ing is 375,0 re. e area and 000.	00 Btu's or less. not more than 3.500 sf	No. 299 of the Public Acts of 1980
ADDI JOANT OLONIATUDI		Plans m	ust be sub	mitted, re	viewed an	d approved	before a p	ermit can	be issued.	
V. APPLICANT SIGNATURE										
Section 23a of the state constructi work on a residential building or a							to circumven	t the licensin	g requirements of this state	e relating to persons who are to perform
X									DATE	
SIGNATURE OF LICENSEE OR HO		OWNER SIGN	ATURE INDIC	ATES COMP	LIANCE WIT	H SECTION V	. HOMEOWNE	R AFFIDAVI	D	
VI. HOMEOWNER AFFIDAV	/IT								the second second	
I hereby certify the mechanical work of shall not be enclosed, covered up necessary inspections.	described on this per or put into operation	rmit application on until it has l	shall be install been <u>inspecte</u>	led <u>by mysel</u> ed and <u>appro</u>	f in my own ved by the M	home in which echanical Inspe	I am living or a ector. I will coo	bout to occup perate with the	y. All work shall be installed in e Mechanical Inspector and as	n accordance with the Mechanical Code and ssume the responsibility to arrange for

629

MECHANICAL PERMIT APPLICATION - GRAND BLANC

VII. FEE CLARIFICATIONS

For New Houses #1, #2, #41 and #42 are required. If you need more then a rough and final inspection then it will be \$75.00/inspection

Item #3 Furnace Replacement is a flat rate of \$125.00-No application fee needed

Item #5 Water Heater is a flat rate of \$125.00-No application fee is needed

The application fee is NON-REFUNDABLE and DOES NOT include any inspections

NEW PERMIT	TO ADD TO EXISTING PERMIT (ADDT'L INSP FEE MAY BE REQUIRED)
COMPLETE DESCRIPTION OF WORK TO BE COMPLETED UNDER THIS PERMIT	EXISTING PERMIT #

COMPLETE DESCRIPTION OF ADDITIONAL WORK

VIII. Fee Chart - Enter the number of item				unit price	tor total fee.				
	FEE	# ITEMS		1	P	FEE		ļ	TOTAL
1. Application Fee	\$ 75.0		\$ 75.00	Į	20. Conversion Burners (oil)	\$ 32	.00		
New Res Htg Sys (incl duct/pipe) to 1,500 sf	\$ 85.0)			21. Commercial Hoods	\$ 16	.00		
New Res Htg Sys (" " " " ")-1,501-3,500 sf	\$ 135.0)			22. Heat Recovery Units	\$ 11	.00		
New Res Htg Sys (" " " " ") 3,501-7,000 sf	\$ 185.0		f		23. V.A.V., Boxes	\$ 11	.00		
New Res Htg Sys (" " " ") 7,001 sf & Over	\$185.00 +	25.00/1,000 SF			24 Unit Ventilators	\$ 11	.00		
3. Furnace Replacement	\$ 125.0)			25. Unit Heaters (Terminal Units)	\$ 27	.00		
Gas/Oil Burning Eq-New/Conv<400,000 In	\$32.00				26. Air Handlers/Heat Wheels	\$ 27	.00		
Gas/Oil Burning Eq-New/Conv>400,000 In	\$42.00				27. Fire Suppression/Protection - minimum \$45.00	0.75 per	head		
4. Residential Boiler	\$ 32.0				28. Evaporator Coils	\$ 32	.00		
5. Water Heater	\$ 6.0				29 Refrigeration (Split Systems) - Self Contained	\$ 17	.00		
Water Heater (Replacement Only)	\$ 125.0)			Refrigeration (Split Systems) - 5 H.P.	\$ 32	.00	T	
6. Flue/Vent Damper	\$ 6.0)			Refrigeration (Split Systems) - Over 5 H.P.	\$ 42	.00		
Solid Fuel Equipment (includes chimney)	\$ 32.0				30. Chiller	\$ 32	.00		
Gas Burning Fireplace	\$ 32.0)]	31. Cooling Towers	\$ 32	.00		
8. Chimney, Factory build - installed separately	\$ 27.0				32. Compressor	\$ 32	.00		
9. Solar; set of 3 panels (includes piping)	\$ 21.0)]	33. Manufactured Chimney	\$ 22	.00	Γ	
10. Gas Piping; each opening - new installation	\$ 6.0)			34. Exhaust Fans	\$ 22	.00		
11. A/C (includes split systems) 1 1/2 - 15 H.P.	\$ 32.0				35. Multi Zone Self Contained Units	\$ 27	.00		
A/C (includes split systems) Over 15 H.P.	\$ 52.00)			36. Through the Wall Units	\$ 27	.00	1	
12. Heat Pumps: Complete Residential	\$ 32.00				37. Ranges (gas)	\$ 22	.00		
13. Bath & Kitchen Exhaust	\$ 6.0				38. Limited Area Suppression (per head)	\$3	.00		
14. Tanks - Aboveground	\$ 22.00				39 Fire Suppression Hood (per head)	\$5	.00		
15. Tanks - Underground	\$ 22.00				40. Special/Safety Insp. (includes Cert Fee)	\$ 75	.00		
16. Humidifiers	\$ 6.00)			41. Additional Inspection	\$ 75	.00		
17. Piping - minimum \$30.00	.05/ft.				42. Final Inspection	\$ 75	.00 1	\$	75.0
18. Duct - minimum \$30.00	.10/ft.				43. Certification Fee	\$ 25	.00	1	
19. Heat Pumps: Commercial (pipe not included)	\$ 22.00				44. Plan Review (see fee sch for calc method)			1	
REQUIRED INSPECTIONS: Underground Pressu	re Rough	Above Ceil	ing Final	Other:	TOTAL FEES			1	
IX. COMPLETING APPLICATION									
GENERAL: Any regulated activity started prior to the applicant securing the permit, will be charged an additional administrative charge at the same rate as the required permit fee not to exceed \$100.00. This shall be paid prior to the issuance of the required permit.	requested & within 6 mor the time of c within six mo	conducted. A petths after issuance	ermit shall bec ce or if work is A pmt will be o of issuance o	ome invalid if suspended o ancelled whe		ice, sex, rei	discriminate agair igion, age, nationa efs.		
Department Approval:	cannot be re	funded or reinsta	ated.		Date:				~

ELECTRICAL PERMIT APPLICATION - CITY OF GRAND BLANC



CITY OF GRAND BLANC, Building Department, 203 E. Grand Blanc Road, Grand Blanc, MI 48439

Phone: (810) 694-1118 Fax: (810) 694-9517

APPLICAN	TIS: C	CONTRACTOR		но	MEOWN	ER	
I. JOB LOCATION							
JOB LOCATION (STREET NO. AND NAME)	CITY:	FLINT / GRA	ND BLANC /	HOLLY	SUBDIVISIO	N	LOT NO.
OWNER'S NAME				TOWNSHIP GR BLANC	COUNTY GENESEE	HAS A BUILDING PERMIT PROJECT?	BEEN OBTAINED FOR THIS
II. CONTRACTOR/HOMEOWNER INFORM	MATION:					1	
NAME ADDRESS (STREET NO. AND NAME)						COMPLETION: MANDAT	OF 1972, AS AMENDED ORY TO OBTAIN PERMIT ANNOT BE ISSUED
						FENALIT. FERMITO	ANNOT DE ISSUED
CITY		STATE	ZIP CODE			State License No.	Expiration Date
SOCIAL SECURITY NUMBER or FEDERAL ID NO. (O EXEMPTION)	R REASON FOR	TELEPHONE NUMBE	ER			State Registration No.	Local License Jurisdiction
WORKERS COMPENSATION INSURANCE CARRIER EXEMPTION)	(OR REASON FOR	MESC EMPLYR NO.	(OR REASON FOR	EXEMPTION)		Local License Number	Expiration Date
III. TYPE OF JOB	1						2
Single Family New	Spec	cial Inspection	-	Premanufa	act Home Set	(State Approved)	State Owned
Other Alteration		ervice Only			d Home Set (HUD Mobile Home)	School
What is the rating of the service or feeder in ampere?	What is the building si feet?		Air Conditioni	ing?	Yes	Have plans been su No No	bmitted? Not Required
IV. PLAN REVIEW REQUIRED	Sec. Sector	Survey March					
See below for plan review requirements system is over 400 amps and is in excess of Plans are required for all building types and Acts of 1980, as amended, and shall bear th 1. When the electrical system rating does 2. Work completed by a governmental su Requi	f 3,500 square feet in a shall be prepared by o nat architect's or engine not exceed 400 amps	Il buildings. r under the direct s eer's signature and and the building is cy costing less thar	upervision of an seal, except: not over 3,500 s 1 \$15,000.	architect or square feet	r engineer l in area.	icensed pursuant to Ac	
V. APPLICANT SIGNATURE		and the second					
Section 23a of the state construction code act of 19 to perform work on a residential building or a reside	in the last of the state of the second state and the second state of the second state of the second state of the	and the second se		to circumven	t the licensin	g requirements of this state	e relating to persons who ar
x						DATE	
SIGNATURE OF LICENSEE OR HOMEOWNER (HOM	EOWNER SIGNATURE IND	ICATES COMPLIANCE	WITH SECTION VI.	HOMEOWNE	R AFFIDAVIT)	
VI. HOMEOWNER AFFIDAVIT	and the state of					and the second second	
I hereby certify the electrical work described on this perr Code and shall not be enclosed, covered up or put in responsibility to arrange for necessary inspections.							

VII. FEE CLARIFICATIONS

Work" Section								
The application fee is NON-REFUND	ABLE and D	DOES NOT	l include a	ny inspections				
ITEM #16, MOBILE HOME UNIT SITE:	ITEM #16. MOBILE HOME UNIT SITE:							
When installing a site service in a park,	When installing a site service in a park, the permit application must include the application fee, service, plus the number of park sites.							
		-		tion fee and a feeder. This shall be done by a lic		ctor.		
				perty, a permit must include the application fee, s			tion.	
	NEW PERMIT	ſ		TO ADD TO EXISTING PERI	MIT (ADDT'L INSP FEE MA	Y BE REQUIR	ED)	
COMPLETE DESCRIPTION OF V	NORK TO BE C	OMPLETED U	JNDER THIS P	ERMIT EXISTING PERMIT #				
				COMPLETE DESCRIPTION	OF ADDITIONAL WORK		Maddian	
VIII. Fee Chart - Enter the number of Iten	n being inst	alled, multi	iply by the u	init price for total fee.				
	FEE	# ITEMS	TOTAL		FEE	# ITEMS	TOTAL	
1. Application Fee	\$ 75.00	1	\$ 75.00	15. Feeders - Bus Ducts, etc per 50'	\$ 7.00			
2. New Res Electrical System up to 1,500 sf	\$ 85.00			16. Mobile Home Park Site (see above)	\$ 6.00			
New Res Electrical System - 1,501 - 3,500 sf	\$ 135.00			17. Recreational Vehicle Park Site	\$ 6.00			
New Res Electrical System - 3,501 - 7,000 sf	\$ 185.00			18. Units up to 20 K.V.A. & H.P	\$ 5.00		L	
New Res Electrical System - 7,001 sf & Over	\$185.00 + \$2	25.00/1000		19. Units 21 to 50 K.V.A. or H.P.	\$ 7.00			
3. Service thru 200 Amps	\$ 15.00			20. Units 51 K.V.A or H.P. or over	\$ 11.00			
4. Over 200 Amps thru 600 Amps	\$ 20.00			21. Fire Alarms - up to 10 devices	\$ 55.00			
5. Over 600 Amps thru 800 Amps	\$ 25.00			22. Fire Alarms - 11 to 20 devices	\$ 105.00			
6. Over 800 amps thru 1200 Amps.	\$ 55.00			23. Fire Alarms - over 20 devices	\$105.00 + \$5	.00/20	j	
7. Over 1200 Amps GFI Only	\$ 80.00			24. Energy Retrofit - Temp. Control	\$ 50.00		j	
8. Circuits	\$ 6.00			25. Conduit only; or grounding only	\$ 50.00			
9. Lighting Fixtures - per 25	\$ 6.00			26. Low Voltage - per opening	\$ 6.00			
10 Dishwasher	\$ 6.00			27. Special/Safety Insp. (includes Cert Fee) \$ 75.00			
11. Furnace - Unit Heater	\$ 6.00			28. Additional Inspection	\$ 75.00			
12. Electrical Heating Units (baseboard)	\$ 32.00			29. Final Inspection	\$ 75.00			
13. Power Outlets (A/C, ranges, dryers, etc)	\$ 8.00			30. Certification Fee	\$ 25.00			
14. Signs: Unit	\$ 7.00			31. Plan Review (see fee sch for calc meth	nod)			
Letter	\$ 11.00			TOTAL FEES			I	
Neon - each 25 feet	\$ 22.00							
REQUIRED INSPECTIONS: Service Undergro	und Rough	Above C	eiling Fina	Temporary Service Other:				
IX. COMPLETING APPLICATION								
GENERAL: Any regulated activity started prior to the applicant securing the permit, will be charged an additional administrative charge at the same rate as the required permit fee not to exceed \$100.00. This shall be paid prior to the issuance of the required permit. He issuance of the required permit.								
	-							

For New Houses items #1,#2,#28 and #29 are required. All inspections are separate fees. Include required detail in "Complete Description of

DEPARTMENT APPROVAL:

DATE:

PLUMBING PERMIT APPLICATION - CITY OF GRAND BLANC



CITY OF GRAND BLANC, Building Department, 203 E. Grand Blanc Road, Grand Blanc, MI 48439

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Phone: (810) 694-1118 Fax: (810) 694-9517

APPLICANT IS:	C	CONTRACTOR			HOMEOWNER				
I. JOB LOCATION									
JOB LOCATION (STREET NO. AND NAME)	CITY:	FLINT / GRAN	D BLANC /	HOLLY	SUBDIVISIO	N	LOT NO.		
OWNER'S NAME				TOWNSHIP GR BLANC	COUNTY	HAS A BUILDING PERMIT THIS PROJECT?	BEEN OBTAINED FOR		
II. APPLICANT INFORMATION									
NAME							OF 1972, AS AMENDED ORY TO OBTAIN PERMIT		
ADDRESS (STREET NO. AND NAME)			1.16			PENALTY: PERMIT C	ANNOT BE ISSUED		
CITY		STATE	ZIP CODE			State License No.	Expiration Date		
SOCIAL SECURITY NUMBER OF FEDERAL ID NO. (OR REASON EXEMPTION)	FOR	TELEPHONE NUMBER				State Registration No.	Local License Jurisdiction		
WORKERS COMPENSATION INSURANCE CARRIER (OR REAS EXEMPTION)	ON FOR	MESC EMPLYR NO. (OI	R REASON FOR	EXEMPTION)		Local License Number	Expiration Date		
III. TYPE OF JOB									
Single Family New	Sewer	1	F	remanufact	Home Set	(State Approved)	State Owned		
OtherAlteration	Water	Special Insp				(HUD Mobile Home)	School		
What is Size of Building (sq ft)?	Air Condi	tioning Included?			Occupant	Load (Commercial/Indu	istrial Uses)		
IV. PLAN REVIEW REQUIRED	-								
HAVE PLANS BEEN SUBMITTED? (see below for plan re	eview requiren	nents before completing	this section)		Yes	No Not R	equired		
Plans are not required for the following:									
1. One-& two-family dwelling containing not more than 3,50						ned to be of a minor natur			
3. Assembly, Business, Mercantile, & Storage Bldgs with a									
	and the second se	d is described above	Contraction of the local division of the loc	the state of the s		the second se			
Plans are required for all other building types and No. 299 of the Public Acts of 1980, as amended, ar	d shall bear	that architect's or e	ngineer's sig	nature and	seal.		d pursuant to Act		
	D PLANS MU	IST BE SUBMITTED	BEFORE A P	ERMIT CAN	I BE ISSUE	D			
V. APPLICANT SIGNATURE									
Section 23a of the state construction code act of 1972, 1972 PA who are to perform work on a residential building or a resident	230 MCL 125. ial structure. V	1523A, prohibits a person /iolators of section 23a an	from conspiring subjected to c	g to circumver ivil fines.	nt the licensi	ng requirements of this sta	te relating to persons		
x					_	DATE			
SIGNATURE OF LICENSEE OR HOMEOWNER (HOMEOWNER S	GNATURE INC	DICATES COMPLIANCE W	ITH SECTION V	I. HOMEOWNE	R AFFIDAVI	[)			
VI. HOMEOWNER AFFIDAVIT	_		and the second						
I hereby certify the plumbing work described on this permit application Plumbing Code and shall not be enclosed, covered up or put int the responsibility to arrange for necessary inspections.	on <u>shall be inst</u> o operation unt	<u>alled by myself in my owr</u> il it has been <u>inspected</u> a	home in which nd approved by	l am living or al the Plumbing	bout to occupy Inspector. 1	All work shall be installed will cooperate with the Plum	in accordance with the bing Inspector and assume		

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VII. FEE CLARIFICATIONS

Item #3 Water He	ater is a flat rate of \$	5125	.00-No	Applic	ation	fee is i	needed								
	ee is NON-REFUNDA							ctions							
TEM #3, MOBILE HO															
When item is u mobile or mod	sed for sewer excavatior ular home on a private pr	ns in rope	a new p rty, a pe	ark, the print and the print should be a constructed by the second second second second second second second se	permit Ild inc	applicat lude the	ion should application	include ti fee, a se	ne a wer	pplication fe	e plus the num drain and a wat	ber of u er servic	nit sites. Wh e or water c	en setting listribution	a pipe.
REQUIRED: ITEM #	4, FIXTURES, FLOOR DR	AIN	S, SPEC	IAL DRAI	NS, &	WATER	CONNECTE	D APPLI	ANC	ES INCLUD	<u> </u>				
Wtr Closets	Sink (any description)		Slo	o Sink		Drinking	g Fountain	F	loor	Drain	Water ou	tlet/Conn	ection to any M	Aake-up WTr	Tank
Bathtub	Emergency Eye Wash		В	idet		Conden	sate Drain		Roof	Drain	Wate	er Outlet/C	Connection to H	leating syster	n
Lavatories	Emergency Shower		Cus	spidor		Washin	g Machine	G	reas	e Trap		Water Ou	tlet/Connection	n to Filters	
Shower Stall	Garbage Grinder		Dish	washer		Acid W	aste Drain	8	tarcl	h Trap	Con	nection to	Sprinkler Syst	tem (irrigation)
Laundry Try	Water Outlet Cooler		Refri	gerator		Embaln	ning Table	F	laste	er Trap		Water	Connected St	erilizer	
Urinal	Ice Making Machine		Wat	er Htr		Bed Pa	n Washer	N N	/tr So	oftener			onnected Den		
Autopsy	Water Connected Still							L					to Carbonate		
			V PERMI							TO ADD TO E	XISTING PERMIT	(ADDT'L	INSP FEE MA	AY BE REQU	RED)
CON	IPLETE DESCRIPTION OF W	VORK	TO BE C	OMPLETE	ED UND	DER THIS	PERMIT			EXISTING PE	RMIT #				
										COMPLETE	DESCRIPTION OF	ADDITIO	NAL WORK		
III. Fee Chart - En	iter the number of item	i bei	ng inst	alled, mi	ultiply	y by the	unit price	for total	fee.						
			FEE	# ITEN	IS 1	TOTAL							FEE	# ITEMS	TOTAL
Application Fee	·	\$	75.00	1	\$	75.00]	13. Sewe	ers 6	" & Over perf 1	00 If (sanitary/store	n)	\$ 30.00		
. New Res Plumbing S	ystem up to 1,500 sf	\$	85.00				1	14. Mani	oles	, Catch Basins	(ea)		\$ 6.00		
New Res Plumbing s	ystem -1,501 - 3,500 sf	\$	135.00					15. Wate	r Dis	st Pipe (syst) 3	/4" Wtr Dist Pipe		\$ 6.00		
	ystem - 3,501 - 7,000 sf	\$	185.00				1	16. Wate	r Dis	st Pipe (syst) 1	" Wtr Dist Pipe		\$ 11.00		
New Res Plumbing S	ystem - 7,001 sf & over	\$18	5.00 + \$2	5.00/1,000				17. Wate	r Dis	st Pipe (syst) 1	1/4" Wtr Dist Pipe		\$ 16.00		
. Water Heater		\$	125.00					18. Wate	r Dis	st Pipe (syst) 1	1/2" Wtr Dist Pipe		\$ 21.00		
. Fixt, flr drains, spec d	rains, wtr conn appl (ea)	\$	6.00								" Wtr Dist Pipe		\$ 26.00		
. Stacks (soil, waste, v	ent or conductor (ea)	\$	3.00								over 2" Wtr Dist Pip)e	\$ 31.00		
. Sewage ejectors, sur	nps (ea)	\$	6.00								w preventer (ea)		\$ 6.00		
. Sub-soil drains (ea)		\$	6.00								tion / min = $$50.00$		\$55.00 + \$5.0	0 ea	
. Water service - Less		\$	6.00					23. Spec	al/Sa	afety Inspectio	n (includes Cert Ltr)	\$ 75.00		
. Water service - 2" - 6		\$	30.00					24. Addit	onal	Inspection			\$ 75.00		
0. Water Service - over		\$	55.00					25. Final					\$ 75.00		
1. Connection - building		\$	6.00					26. Certif					\$ 25.00		
	per 100 If (sanitary/storm)	\$	6.00					27. Mobil	e Ho	me Park Site*			\$ 6.00		
EQUIRED INSPECTION	S: Underground Roug		Above C	•	inal	Other:			0900	TOTAL	FEES				
ENERAL: Any regulated a plicant securing the perm ministrative charge at the	ctivity started prior to the it, will be charged an additional s same rate as the required 00.00. This shall be paid prior ed permit	PER requ withi after requ	MIT EXP ested & c n 6 month the time ested/con	RATION: / onducted. / is after issu of commen ducted with	A permi uance o ncement hin six n	it shall bec or if work is t. A pmt wi months of	ome invalid if suspended o Il be cancelled	the authori r abandone I when no i uance or th	zed v Id for nspe	ssing & inspect work is not con r a period of sizections are ate of a previou	nmenced indivi months nation politic	dual or gr	nt will not discr oup because c color, marital :	of race, sex, re	eligion, age,

COMMERCIAL & INDUSTRIAL BUILDING PERMIT APPLICATION CITY OF GRAND BLANC, Building Department, 203 E. Grand Blanc Road, Grand Blanc, MI 48439

Phone: (810) 694-1118 Fax: (810) 694-9517 THIS DEPARTMENT WILL NOT DISCRIMINATE AGAINST ANY INDIVIDUAL OR GROUP BECAUSE OF RACE, SEX, RELIGION, AGE, NATIONAL ORIGIN, COLOR, MARITAL STATUS, HANDICAP, OR POLITICAL BELIEFS. AUTHORITY: PA 2300F 1972, AS AMENDED COMPLETION: MANDATORY TO OBTAIN PERMIT PENALTY: PERMIT NOT ISSUED

JOB ADDRESS:	SUITE #	_PID:	DATE:
> IT IS YOUR RESPONSIBILITY :Obtain The	e Following County & State Permits	(If Required) F	rior To Application For Your Building Permit:
Soil Erosion Permit (County)	Right-Of-Way Permit (County)	CCIF (B) Permit (County)
IPP Permit (County)	DEQ (State	2)	DNR (State)
Construction Value (to be calculated per nation	al standard):		
Description of work to be completed under this	permit:		
CONTRACTOR INFORMATION:			
Name/Company Name:	Builder's	License Numbe	er:
Project Manager/Contact Person:	Federal E	mployer ID Nu	mber Or Reason Exempt:
Address:	Workman	's Comp Carrie	r Or Reason Exempt:
City/State/Zip Code:	MESC Er	nployer Numbe	r Or Reason Exempt:
Phone Number:	_email:		
Cell Phone:	Fax Numl	oer:	
OWNER/LESSEE:			
Name:	Contact:		
Address:	City/State	Zip Code:	
Phone Number:	Fax Numb	er:	

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APPLICANT INFORMATION:

Name/Company Name:	Project Manager/Contact Person:	-
Address:	City/State/Zip Code:	-
Phone Number:	Cell Phone:	_
Fax Number:	email:	_

IMPORTANT INFORMATION

PLEASE NOTE: UNLESS YOU ARE OTHERWISE NOTIFIED, PERMIT OR DENIAL WILL BE ISSUED WITHIN 21 DAYS OF SUBMISSION OF COMPLETE APPLICATION. Construction shall not be started until the permit has been approved and issued. All construction shall be in compliance with the building code currently in effect. No work shall be concealed until it has been inspected. Inspections must be requested by calling the City of Grand Blanc at (810) 694-1118. Requests must include the job location, permit number, caller' name and company name, return telephone number, and lockbox information.

EXPIRATION: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after the issuance of the permit or the authorized work is suspended or abandoned for a period of six months after the time of commencing work. Once processed for issuance, building permits must be issued, including payment of all required fees, within thirty (30) days. A permit will be cancelled when no inspections are requested or conducted within six months of the date of issuance or the date of a previous inspection. Cancelled permits cannot be reissued or refunded.

IF REQUIRED:

✓ PLAN REVIEW MUST BE COMPLETED PRIOR TO THE PROCESSING AND ISSUANCE OF THE BUILDING PERMIT.
 ✓ TRADE PERMITS WILL NOT BE ISSUED PRIOR TO THE BUILDING PERMIT.

I HEREBY CERTIFY THAT THE OWNER OF RECORD AUTHORIZES THE PROPOSED WORK AND THAT I HAVE BEEN AUTHORIZED BY THE OWNER TO MAKE THIS APPLICATION AS HIS/HER AUTHORIZED AGENT. WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. ALL INFORMATION SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant's Signature:_____

COMMERCIAL & INDUSTRIAL PERMITS: <u>REQUIRED INSPECTIONS</u>

.

- ✓ Project Address (Including Suite Number, Building Number Etc.)
 ✓ Name Of Person Calling And Telephone Contact Number
- ✓ Permit Number
- Relevant Information Such As Location For Inspection, Lockbox, Etc. \checkmark

PLEASE NOTE: Calls Made Later In The Day Will Receive Inspection The Next Business Day (Monday Through Friday).

INSPECTION TYPES:	INSPECTION IS REQUIRED:
Footing Forms	When forms are set and before concrete is poured.
Foundation Forms	When forms are set, any reinforcing is installed and secured, and before the concrete is poured.
Backfill	When concrete is poured, waterproofed, drain tile is in and covered with gravel, before foundation is backfilled.
HVAC Rough	When piping and ductwork are installed.
Electrical Rough-In	When rough-in work is complete; before drywall or insulation is in place.
Plumbing Underground	When piping is located between floors or underground, but before covering is in place. Flushing of underground must be witnessed.
Plumbing Rough-In	When rough work is completed.
Rough (Structural)	Before any drywall, plaster or interior finish is applied. Rough in of electrical, plumbing, and ductwork must be installed and approved. Inspection per floor is required for all uses.
Underslab	When base is prepared and reinforcing in place and before concrete is poured. All utilities and service equipment in concrete must be in place prior to inspection.
Insulation	When framing inspection has been approved and the insulation has been installed.
HVAC Final	When system is installed and operational.
Plumbing Final	When final work is complete and before system is operational.
Electrical Final	When final work is complete.
Fire Protection Systems; Fire	All fire protection, detection, suppression and alarm systems shall be inspected and witnessed
Prevention Systems including	before the systems are operational. **Systems may require a rough inspection. All trade
sprinkler system, fire alarm systems,	inspections must be approved prior to the framing inspection or the final inspection for occupancy.
hood systems, etc.	
Periodic	For large commercial and industrial buildings, between regularly scheduled inspections (progress status reporting).

Final / Occupancy	When all work is completed and all other required inspections have been completed and approved.

APPROVAL FOR PERMIT PROCESSING AND ISSUANCE:

Zoning	Fire Department
Variance Granted (Date):	ZBA #:
Pollution Control	Noise Control
Tap-In Fees	Other

USE GROUP	CONSTRUCTION TYPE	SQUARE FEET	OCCUPANT LOAD	SEAT COUNT

Total Bldg Pmt Fee: \$_____

Building Department Inspector Approval for Permit Issuance

Date

COMMERCIAL OR INDUSTRIAL PROJECTS PLAN REVIEW APPLICATION



CITY OF GRAND BLANC Building Department 203 E. Grand Blanc Road Grand Blanc, MI 48439

Phone: (810) 694-1118 Fax: (810) 694-9517

APPLICATION INFORMATION AND REQUIREMENTS (application MUST be complete):

PLAN REVIEW FEES MUST BE PAID IN FULL AT TIME OF PROJECT SUBMITTAL

PLANS MUST BE SIGNED/SEALED BY ARCHITECT OR ENGINEER

THREE SETS OF SIGNED/SEALED PLANS ARE REQUIRED

DIGITAL COPY REQUIRED

THE FOLLOWING SIGNATURES MUST BE ON THE APPLICATION:

_____Applicant _____Architect/Engineer _____Design Professional In Charge

_____SITE PLAN REVIEW IN PROCESS?______COMPLETED AND APPROVED?

____ZBA REQUIRED? ______IF YES, APPROVAL OBTAINED?

____SPECIAL LAND USE REQUIRED? _____IF YES, APPROVAL OBTAINED?

IT IS YOUR RESPONSIBILITY To Obtain The Following County & State Permits (If Required) Prior To

Application For Your Building Permit:

Soil Erosion Permit (County)

_____Right-Of-Way Permit (County)

_____CCIF (B) Permit (County)

DNR (State)

IPP Permit (County)

____DEQ (State)

Fire Suppression / Fire Prevention Information Required (last page of application)

TED SCZEPANSKI, BUILDING OFFICIAL BUILDING PLAN REVIEW/COMMERCIAL BUILDING INSPECTIONS

MIKE KYLE ELECTRICAL PLAN REVIEW/INSPECTOR GLENN THOMAS MECHANICAL PLAN REVIEW/INSPECTOR FIRE SUPPRESSION PLAN REVIEW/INSPECTOR PLUMBING PLAN REVIEW/INSPECTOR

 Authority: Act 230, P.A. 1972, as amended
 Completion: Mandatory
 Penalty: Permit Cannot Be Issued

 Notice:
 The City of Grand Blanc
 will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, handicap or political beliefs.

<u>PLEASE NOTE</u>: ONLY those items checked and that have fees paid will be reviewed. **Additional submittals for plan review require a new application:

Building	Electrical	_Mechanical	_Plumbing	Energy
- -	D 1 D			
Foundation	_Barrier Free	Fire Prevention*	Fire Suppression	_Fire Alarm

> * Each of the following require fire prevention plan review and permits in addition to mechanical and/or electrical:

- Any project requiring fire suppression plan review and permit.
- Any project requiring fire alarm systems
- Any project requiring Automatic Range Hood systems

> APPLICANT INFORMATION:

Company:		Contact Name:		
Address:		City:	State:	Zip Code:
Phone:		Cell Phone (if desired):	Fa:	x:
> Applicant	Signature:		Title:	
ARCHITECT/EN	GINEER INFORMA	TION:		
Company:		Contact Name:		
Address:		City:	State:	Zip Code:
License #:		Phone:	Fax	
DESIGN PROFE	SSIONAL IN RESPO	NSIBLE CHARGE:		
		NSIBLE CHARGE:		
Company:				
Company:		Contact Name:	State:	Zip Code:
Company: Address: Phone Number:		Contact Name:	State:	Zip Code:
Company: Address: Phone Number: Architect:	Engineer:	Contact Name: City: Fax:	State:	Zip Code:
Company: Address: Phone Number: Architect: Email	Engineer:	Contact Name: City: Fax: License Number:	State:	Zip Code:
Company: Address: Phone Number: Architect: Email > RESPONS	Engineer:	Contact Name: City: Fax: License Number:	State:	Zip Code:
Company: Address: Phone Number: Architect: Email > RESPONS Building	Engineer:	Contact Name: City: Fax: License Number:	State:	Zip Code:

THIS APPLICATION IS FOR:

Project Address:				
Project Name:				
Building Data: No	w Addition	Alteration	Repair	_Other
Proposed Constru	ction Cost:	1997		
<u>AREA 1</u> G	eneral Description:			
Gross Floor Area:	Alteratio	on Area:	Occupant Load:	
Use Group:	Construc	ction Type:	Date:	
Fire Suppression:	Yes / No Type of System	NFPA13 NFPA13R N	FPA13D LTD AREA	HOOD SYS OTHER
Fire Alarms:	Yes / No Type of System	: MANUAL AUTOMAT	TIC	
<u>AREA 2</u> Ge	meral Description:			
Gross Floor Area:_	Alteratio	on Area:	Occupant Load:	
Use Group:	Construc	tion Type:	Date:	
Fire Suppression:	Yes / No Type of System:	NFPA13 NFPA13R NI	FPA13D LTD AREA	HOOD SYS OTHER
Fire Alarms:	Yes / No Type of System:	MANUAL AUTOMAT	IC	
<u>AREA 3</u> Ge	neral Description:			
Gross Floor Area:_	Alteratio	n Area:	Occupant Load:	
Use Group:	Construc	tion Type:	Date:	
Fire Suppression:	Yes / No Type of System:	NFPA13 NFPA13R NF	PA13D LTD AREA	HOOD SYS OTHER
Fire Alarms:	Yes / No Type of System:	MANUAL AUTOMAT	IC	

PLAN REVIEW FIRE SUPPRESSION AND FIRE PREVENTION FOR FIRE SUPPRESSION

Separate Permits Required for Fire Suppression and Fire Prevention for Fire Suppression

ATTENTION OWNERS / LEASEES: ATTENTION CONTRACTORS:

This project may need to obtain yearly operational permit and inspection from the Grand Blanc Fire Department When application for a fire suppression permit is made, **shop drawings are required.**

Owner/Manager is responsible to pay all fire prevention plan review fees and submit a fire prevention permit application with appropriate fees.

PLEASE PROVIDE A DESCRIPTION OF WORK TO BE COMPLETED UNDER THIS PERMIT

SYSTEM TYPE:	GRID		T-System	
Densi	ty	_ W	/et Pipe	
"C" Fac	tor		Pry Pipe	
Design Area Square F	eet	Pre-Action	System	
# Sprinklers Calculat	ted	_ Wet Pipe w/An	tifreeze	
Hose Allowar	nce	-		
Vater Supply Static Flow	Test	Residual	at	G.P.M.
vstem Demand	G.P.M. @	PSI	at	
stem G.P.M	Hose G.P.M	P:	ressure	
zard Type				
for Heads		Design De	nsity	
Head on Each Line				
Rows/Lines:	Spacin	ng of Rows		

BUILDII BUILDII REVIEV Numerals in this record i all code pro	2015 INTERNATIONAL BUILDING CODE® DLAN REVIEW RECORD CTION: City, County, Township, etc.) City, County,	<i>Code (IBC)</i> . The plan review accomplished as indicated in commonly applicable code sections. It does not reference
No.	CORRECTIONS LIST DESCRIPTION	Code
110.	DESCRIPTION	
		-
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CORRECTION LIST (cont'd.)				
No.	DESCRIPTION	Code Section		
		"Printege"		

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NOTES: N.R. — Not required N.A. — Not applicable

ADMINISTRATION (Chapter 1)

Complete construction documents	Signed/sealed construction documents
(107.1, 107.2)	(107.1, State laws vary)

BUILDING PLANNING (Chapters 3, 4, 5, 6)

OCCUPANCY CLASSIFICATION (302 - 312, 508, 509)

_____ Single Occupancy (302.1)

_____ Mixed Occupancy (508.1)

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single occupancy or nonseparated mixed occupancies. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed occupancies.

Frontage				
(506.3)				_
	North	East	South	West
Total Frontage (F)f	t. Perir	neter <i>(P)</i> _	ft.
Width of ope	en space <i>(V</i>	V) =		_
Area Increas due to fronta (506.3.3)				_
	$I_f = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	$\begin{bmatrix} F \\ P \end{bmatrix} = 0.25$	W 30	

FRONTAGE INCREASE

CASE 1 — SINGLE OCCUPANCY OR NONSEPARATED MIXED OCCUPANCIES (508.3)

Using Tables 504.3, 504.4 and 506.2, identify the allowable height and area of the single occupancy or the most restrictive of the nonseparated mixed occupancies. Construction types that provide an allowable building area and height equal to or greater than the actual building area and height are permitted.

DETERMINE CON	ISTRUCTION TYPE	
Actual building area		ft²
Tabular allowance area (A	<i>t</i>)	ft²
Tabular allowance area for buildings (NS)		ft²
Allowable building area	$A_a = A_t + (NS \times I_f)$	ft²
Actual building height	feet	stories
Allowable building height	feet	stories
Permitted types of constructi	ion	
Type of construction assume for review (602.1)	ed	

CHECK MAXIMUM ALLOWABLE AREA (506.2.3) otal floor area (all stories) _______ft² flaximum allowable floor area (all stories) ______ = ____ft²

_____ Incidental uses (509, Table 509)

_____ Accessory occupancies (508.2)

llowable building area (A_a)	number of stories above grade plane (maximum 3) (S_a)	
ompliance verified _		

CASE 2—SEPARATED MIXED OCCUPANCIES (508.4)

Using Tables 504.3, 504.4 and 506.2, identify the allowable height and area of each of the separated occupancies within the building. Construction types that provide, for each story of the building, areas from Table 506.2 (as modified by Section 506.3.3) which result in a sum of the ratios of 1.00 or less and allowable heights (per Tables 504.3 and 504.4) equal to or greater than the actual heights of the occupancies are permitted.

Story Grou	Actual p floor area	Tabular allowance area (<i>A</i> ,)	Tabular allowance area for nonsprinklered buildings (<i>NS</i>)	Allowable floor area*	Actual height	Allowable height	
	ft²	ft²	ft ²	ft²	ft	_storiesft	stories
	ft ²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft ²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft ²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft ²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft²	ft ²	ft ²	ft ²	ft	_stories ft	stories
	ft²	ft²	ft ²	ft ²	ft	_stories ft	stories
Area ratio (single flo *Allowable floor area = A	Allow. fic	oor area oor area*	=++		=≤1.00		
		CHE	ECK MAXIMUM ALLOWA	BLE AREA (506.2.	4)		
ſ	Three stories or less bu	iildings	Ρε	ermitted types of co	nstruction		
	Four or more story build (Total area ratio ≤ 3)	dings		pe of construction a prive of construction a prive of construction a prive of the cons	assumed		
			Co	ompliance verified			

a participant

MEZZANINES (505)

Area limitation (505.2.1)	Openness <i>(505.2.3)</i>	
Egress (505.2.2)	Equipment platforms (505.3)	
UNLIMITED AREA BUILDINGS (507)		
Open space <i>(507.2)</i>	Group H-5 occupancy (507.9)	
Nonsprinklered, one story (507.3)	Aircraft paint hangar (507.10)	
Sprinklered, one story (507.4)	Group E buildings (507.11)	
Two story <i>(507.5)</i>	Motion picture theaters (507.12)	
Group A-3 buildings (507.6, 507.7)	Covered and open mall buildings/ancho stores <i>(507.13)</i>	
Group H-2, H-3 and H-4 occupancies (507.8)		
SPECIAL PROVISIONS (510)		
Special condition applicable (510.1)	Compliance verified	

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (Chapter 4)

COVERED MALL AND OPEN MALL BUILDINGS (402)

Open space (402.1.1, 402.1.2)	Plastic signs (402.6.4)
Lease plan <i>(402.3)</i>	Standpipe system (402.7.1)
Area/type of construction (402.4.1)	Smoke control (402.7.2)
Fire separations (402.4.2 - 402.4.2.3)	Emergency power and emergency voice/
Open mall construction (402.4.3)	alarm <i>(402.7.3, 402.7.4)</i>
Automatic sprinkler system (402.5)	Fire department access (402.7.5)
	Mall width (402.8.1)
Interior finish <i>(402.6.1)</i>	Occupant load (402.8.2 - 402.8.2.4)
Kiosk requirements (402.6.2)	Egress (402.8.3 - 402.8.7)
Children's play structures (402.6.3)	Lyless (402.0.3 - 402.0.7)
	Security grilles and doors (402.8.8)

HIGH-RISE BUILDINGS (403)	OTHER SPECIAL USE AND OCCUPANCY
Construction (403.2)	Underground structures (405)
Automatic sprinkler system (403.3)	Motor-vehicle-related occupancies (406, 510) Group I-2 (407) Group I-3 (408) Motion picture projection rooms (409) Stages, platforms and technical production areas (410) Special amusement buildings (411) Aircraft-related occupancies (412) Combustible storage (413) Hazardous materials (307.1, 414) Groups H-1, H-2, H-3, H-4 and H-5 (415) Application of flammable finishes (416)
Smoke detection <i>(403.4.1)</i> Fire alarm system <i>(403.4.2)</i>	
Standpipes (403.4.3)Emergency voice/alarm systems (403.4.4)Emergency responder radio coverage (403.4.5)Fire command center (403.4.6)Smoke removal (403.4.7)Standby/emergency power (403.4.8)Stair remoteness (403.5.1)Additional stairway (403.5.2)	
	Drying rooms (417) Organic coatings (418) Live/work units (419) Groups I-1, R-1, R-2, R-3 and R-4 (420) Hydrogen fuel gas rooms (421) Ambulatory care facilities (422) Storm shelters (423) Children's play structures (424) Hyperbaric facilities (425) Combustible dusts (426)
Interior exit stairways (404.10)	

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRE-RESISTANCE-RATED CONSTRUCT	CTION (Tables 601 & 602 and Chapter 7)
Note: Entry in indicates required rating in hours. NC indicates noncombustible construction required.	FIRE-RESISTANCE RATINGS AND FIRE TESTS (703)
Construction classification (602)	Ratings / Combustibility (703.2, 703.4, 703.5)
COMBUSTIBILITY (602.2, 602.3, 602.4, 602.5, 603)	Alternative methods (703.3, 719, 721, 722)
Exterior walls	Rated glazing (703.6)
Interior elements	Marking and identification (703.7)
Roof	

BUILDING ELEMENTS (Table 601)

Structural frame (704)	Atriums (707.3.6)
Interior bearing walls	Incidental uses (707.3.7)
Interior nonbearing walls	Control areas (707.3.8)
Floor construction (711)	Mixed occupancy and fire area separa- tions (707.3.9, 707.3.10, 901.7)
Roof construction (711)	Construction (707.2, 707.5 - 707.10)
EXTERIOR WALLS (507, Table 602, 705, 707.4) North East South West	VERTICAL OPENINGS (712)
Fire separation distance	SHAFTS (713)
Bearing Nonbearing	Construction (713.2 - 713.12, 713.14)
Projections (705.2)	Refuse and laundry chutes (713.13)
Materials/stability (705.4, 705.6)	OTHER FIRE-RESISTANT CONSTRUCTION
Opening protection (705.8.1 - 705.8.4)	Fire walls (706)
Vertical fire spread protection (705.8.5, 705.8.6)	Fire partitions (708)
Parapets (705.11)	Smoke barriers (709)
FIRE BARRIERS (707)	Smoke partitions (710)
Shaft enclosures (707.3.1)	Penetrations (714)
Interior exit stairway/ramp (707.3.2)	Fire-resistant joint systems (715)
Exit access stairway/ramp (707.3.3)	Opening protectives (716)
Exit passageway (707.3.4)	Dampers (717)
Horizontal exits (707.3.5)	Concealed spaces (718)
	Thermal- and sound-insulating materials (720, 807)

INTERIOR FINISHES (Chapter 8)

Smoke development	Floor finish <i>(804)</i>		
(803.1.1, 803.1.2, 803.11, Table 803.11)	Combustible materials (805)		
Flame spread <i>(803.1.1, 803.1.2, 803.11,</i>	Decorations and trim (806)		
($603.1.1, 803.1.2, 803.11,$ Table 803.11)	Acoustical ceiling systems (808)		
Textile/expanded vinyl coverings (803.1.3, 803.1.4, 803.5 - 803.8)			
FIRE PROTEC	CTION (Chapter 9)		
AUTOMATIC SPRINKLER SYSTEMS (903) (Where required)	NFPA 13R system (903.3.1.2)		
Assembly (A-1, A-2, A-3, A-4, A-5)	NFPA 13D system (903.3.1.3)		
(903.2.1) (903.2.1)	Quick-response and residential heads (903.3.2)		
Ambulatory health care facilities (B) (903.2.2)	Actuation (903.3.4)		
Educational (E) (903.2.3)	Water supplies (903.3.5)		
Factory/Industrial (F-1) (903.2.4)	Hose threads (903.3.6)		
High-hazard (H-1, H-2, H-3, H-4, H-5) <i>(903.2.5)</i>	Fire department connections (903.3.7)		
Institutional (I-1, I-2, I-3, I-4) (903.2.6)	Limited area sprinkler system (903.3.8)		
Mercantile (M) <i>(903.2.7)</i>	Sprinkler monitoring and alarms (903.4)		
	* Also see Fire Code Sprinkler Plan Review Record		
Residential (R) <i>(903.2.8)</i>	ALTERNATIVE AUTOMATIC FIRE-EXTINGUISHING SYSTEMS (904)		
Storage/Repair garage (S-1) (903.2.9)	Installation (904.3)		
Parking garages (903.2.10)	Wet-chemical systems (904.5)		
Windowless story (903.2.11.1)	Dry-chemical systems (904.6)		
Rubbish and linen chutes (903.2.11.2)	Foam systems (904.7)		
Buildings over 55 ft. high (903.2.11.3)	Carbon dioxide systems (904.8)		
Incidental uses (Table 509)	Halon systems (904.9)		
Additional required systems (Table 903.2.11.6)	Clean-agent systems (904.10)		
· · · · · · · · · · · · · · · · · · ·	Automatic water mist system (904.11)		
International Fire Code (IFC 903.2.11.6)	Commercial cooking systems		
AUTOMATIC SPRINKLER SYSTEMS* (903) (Design)	(903.2.11.5, 904.2.2, 904.12)		
Shop drawings (107.2.2)	Domestic cooking in Group I-2 (904.13)		
NFPA 13 system <i>(903.3.1.1)</i>			

FIRE PROTECTION (continued)

TANDPIPE SYSTEMS (905)	FIRE ALARM AND DETECTION SYSTEMS (907)		
Installation standard (905.2)	(Design)		
Building height (905.3.1)	Residential smoke alarm interconnection (907.2.11.5)		
Group A <i>(905.3.2)</i>	Residential smoke alarm power source		
Covered and open malls (905.3.3)	(907.2.11.6)		
Stages (905.3.4)	Smoke detection system (907.2.11.7)		
Underground buildings <i>(905.3.5)</i>	Fire safety functions (907.3)		
Helistops/heliports (905.3.6)	Initiating devices (907.4)		
Marinas/boatyards (905.3.7)	Occupant notification (907.5)		
Rooftop gardens/landscaped roofs (905.3.8)	Installation (907.6, 907.7)		
Hose connections and locations (905.1, 905.4, 905.5, 905.6)	EMERGENCY ALARM SYSTEMS (908)		
Cabinets <i>(905.7)</i>	Detection system applicable (908.1 - 908.7)		
Dry standpipes (905.8)			
219 orandpipes (000.0)	SMOKE CONTROL SYSTEMS (909)		
DRTABLE FIRE EXTINGUISHERS (906)	Where required (402.7.2, 404.5, 405.5, 408.9, 410.3.7.2, 1023.11, 1029.6.2.1)		
Required locations (906.1, 906.5, 906.6)	Design requirements (909.1 - 909.4)		
Installation standard (906.2)	Smoke barriers (909.5)		
Size and distribution (906.3)	Pressurization method (909.6)		
Cabinets (906.8)	Airflow design method (909.7)		
Installation (906.9)	Exhaust method (909.8)		
	Design fire <i>(909.9)</i>		
E ALARM AND DETECTION SYSTEMS (907) nere required)	Equipment/Power (909.10, 909.11)		
Construction documents/shop drawings	Detection and control (909.12 - 909.18)		
(907.1.1, 907.1.2)	Smokeproof enclosures (909.20) Elevator hoistway pressurization (909.21) SMOKE AND HEAT REMOVAL (910) Where required (910.2) Smoke and heat vents (910.3) Mechanical alternative (910.4)		
Assembly (A-1, A-2, A-3, A-4, A-5) <i>(907.2.1)</i>			
Business (B) <i>(907.2.2)</i>			
Educational (E) (907.2.3)			
Factory (F-1, F-2) <i>(907.2.4)</i>			
High-hazard (H-5/organic coatings/highly			
toxic gases/organic peroxides/ oxidizers) (907.2.5)	FIRE COMMAND CENTER (911)		
Institutional (I-1, I-2, I-3, I-4) (907.2.6)	Requirements (911.1.1 - 911.1.6)		
Mercantile (M) <i>(907.2.7)</i>	FIRE DEPARTMENT CONNECTIONS (912)		
Residential (R-1, R-2, R-4)	Installation (912.1 - 912.6)		
(907.2.8, 907.2.9, 907.2.10)	FIRE PUMPS (913)		
Single/multiple station smoke alarms (907.2.11)	EMERGENCY RESPONDER SAFETY FEATURES/ RADIO COVERAGE (914, 916)		
High-rise buildings <i>(907.2.13)</i>			
Atriums <i>(907.2.14)</i>			
Other buildings/areas	Requirements (914.1, 914.2, 916.1)		
(907.2.12, 907.2.15 - 907.2.23)	CARBON MONOXIDE DETECTORS (915)		
	Requirements (915.1 - 915.6)		

OCCUPANT NEEDS (Chapters 10, 11, 12) MEANS OF EGRESS (Chapter 10)

						able		2, 1004.4)	CAPACITY OF (1005.3.1, 10	EGRESS COMPONENTS	
Location	Floor Area	+	Sq. f	t./ <u>=</u> on	Occt. load		Other occt.	Total	Egress width (i	inch/occupant)	
		loads		Stairways	· · ·						
										component	
											Other egrees
									Location	Stairways	Other egress components
											·····
<u> </u>											
					4 -1						
				·	······						
									NUMBER OF E	EXITS/EXIT ACCESS (1006)	
									Location	Required	Shown
						_					
											······
						-					
											(

MEANS OF EGRESS (continued)

GENERAL MEANS OF EGRESS

Design requirements (1003.2 - 1003.7) Encroachment (1005.7) Means of egress illumination (1008) Exit signs (1013) Accessible means of egress (1009) Door size/swing/opening force (1010.1 - 1010.1.3) Special doors/Gates/Turnstiles (1010.1.4, 1010.2, 1010.3)	Door landings/Thresholds/Arrangement (1010.1.5 - 1010.1.8) Door hardware (1010.1.9, 1010.1.10) Stairways (1011) Roof access (1011.12) Ramps (1012) Handrails (1014) Guards (1015) Luminous egress path markings (1025)				
EXIT ACCESS					
Exit access configuration (1007.1.1 - 1007.1.3) Common path of egress travel (Table 1006.2.1) Intervening spaces (1016.2, 1016.2.1) Exit access travel distance (1017)	Aisles (1018) Exit access stairways/ramps (1019) Corridors (1020) Air movement in corridors (1020.5) Egress balconies (1021)				
EXITS / EXIT DISCHARGE					
Exits/Exit doors (1006, 1022) Exit configuration (1007.1.1, 1007.1.2) Interior exit stairways/ramps (1023) Exit passageways (1024)	Horizontal exits <i>(1026)</i> Exterior exit ramps/stairways <i>(1027)</i> Exit discharge <i>(1028)</i>				

OTHER MEANS OF EGRESS

_Miscellaneous egress requirements (1006.2.2.1 - 1006.2.2.5) _____Assembly aisles & features (1029.6 - 1029.16)

_Emergency escape and rescue (1030)

_____Bleachers (1029.1.1)

____Assembly exits & egress (1029.2 - 1029.5)

ACCESSIBILITY* (Chapter 11)

Scoping requirements (1103)	Dwelling units and sleeping units (1107)
Accessible route (1104)	Special occupancies (1108)
Accessible entrances (1105)	Features and facilities (1109)
Parking and passenger loading (1106)	Recreational facilities (1110)
Also see Accessibility Plan Review Record	Signage (1111)

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INTERIOR ENVIRONMENT (Chapter 12)

Ventilation (1203, 1503.5)*	Sound transmission (1207)

_____Temperature control (1204)

_____Lighting (1205)

STRUCTURAL DESIGN

_____Yards or courts (1206)

_____ Interior space dimensions (1208)

_____ Access to unoccupied spaces (1209)

____Toilet and bathroom requirements (1210, 2509)

*Also see Mechanical Code Plan Review Record

BUILDING ENVELOPE (Chapters 13*, 14, 15)

*See Energy Conservation Code Plan Review Record

EXTERIOR WALLS (Chapter 14)

Performance requirements (1403)	Combustible material restrictions (1406)
Materials (1404)	EIFS (1408)
Exterior wall coverings/MCM's (1405, 1407)	HPL (1409)
	Plastic composite decking (1410)

ROOF ASSEMBLIES AND ROOFTOP STRUCTURES (Chapter 15)

Weather protection (1503)	Roof coverings <i>(1507)</i>
Flashing (1503.2, 1507.2.9, 1507.3.9,	Roof insulation (1508)
1507.5.7, 1507.7.7, 1507.8.8, 1507.9.9)	Radiant barriers (1509)
Performance requirements (1504)	Rooftop structures (1510)
Fire classification (1505)	Reroofing (1511)
Materials (1506)	Solar photovoltaic panels/modules (1512)

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTUR	AL DESIGN (Chapter 16)
CALCULATIONS	Roof snow loads (1603.1.3, 1608; Chapter 7 of ASCE 7)

Submitted for all str (106, 107.1, 107	uctural members 7.2.1, 1604, 1605)	Ground snow load, p _g (1608.2; 7.2 of ASCE 7)		
DESIGN LOADS ON CONSTRU (1603)	JCTION DOCUMENTS	If $p_g > 10$ psf, flat-roof snow load, p_f (7.3 of ASCE 7)		
Uniformly distributed floor live lo (1603.1.1, Table 1607.1)	ads	If $p_g > 10$ psf, snow exposure factor, C_e (Table 7-2, 7.3.1 of ASCE 7)		
Floor Area Use	Loads Shown	If $p_g > 10$ psf, snow load importance factor, I _s (7.3.3, Table 1.5-2 of ASCE 7)		
		If $p_g > 10$ psf, roof thermal factor, C_t (Table 7-3, 7.3.2 of ASCE 7)		
		Sloped roof snow load, p_s (7.4 of ASCE 7)		
-		Drift loads (7.7, 7.8 of ASCE 7)		
Live load reduction (1603.1.1, 1607.	10, 1607.11)	Width of snow drift (7.7, 7.8 of ASCE 7)		
Roof live loads (160)3.1.2, 1607.12)	Ponding instability (1608.3; 7.11 of ASCE 7)		

DESIGN LOADS (continued)	Site class (1613.3.2; 11.4.2, Chapter 20 of
Wind loads (1603.1.4, 1609; Chapters 26 - 31 of ASCE 7)	ASCE 7)
Design procedure (1609.1.1, 1609.6, Chapters 26 - 31 of ASCE 7)	Seismic design category (1613.3.5; 11.6 of ASCE 7)
Alternate all-heights method (1609.6)	Basic seismic-force-resisting system (Table 12.2-1 of ASCE 7)
Wind speed (1609.3; Fig. 26.5.1 of ASCE 7)	Response modification coefficient, R (Table 12.2-1 of ASCE 7)
Risk category (Table 1604.5; Table 1.5-1 of ASCE 7)	Seismic response coefficient, C_s (12.8.1.1 of ASCE 7)
Surface roughness/Exposure categories (1609.4; 26.7 of ASCE 7)	Analysis procedure (12.6 of ASCE 7)
Internal pressure coefficient (26.11, Table 26.11-1 of ASCE 7)	Design base shear (12.8 of ASCE 7) Flood loads (1603.1.7, 1612)
Component and cladding pressures (Chapter 30 of ASCE 7)	Flood hazard area (1612.3)
Main wind-force resisting system (1609.5; 27.4, 27.6, 28.4, 28.6 of ASCE 7)	Documentation (1612.5) Ice loads (1614; Chapter 10 of ASCE 7) Compliance
Earthquake design data (1603.1.5, 1613; Chapters 11 - 13 and 15 - 23 of ASCE 7)	Other loads
Risk category (Table 1604.5; Table 1.5-1 of ASCE 7)	Concentrated live loads (1607.4) Partition loads (1607.5)
Seismic importance factor, I (11.5.1, Table 1.5-2 of ASCE 7)	Impact loads (1607.9)
Mapped spectral response acceleration parameters, S_s and S_1 (1613.3.1; 11.4.1 of ASCE 7)	Misc. loads (1607.6, 1607.7, 1607.8, 1607.13, 1607.14, 1610, 1611, 2404) Structural integrity (1615)
Design spectral response parameters, S_{DS} and S_{D1} (1613.3.4; 11.4.4 of ASCE 7)	Design requirements (1615.1 - 1615.4)

SPECIAL INSPECTIONS AND TESTS (Chapter 17)

Approvals/Research report(s) (1703, 1703.4.2) Report No	Sprayed fire-resistant materials and coatings (1705.14, 1705.15)
Statement of special inspections (1704.3)	EIFS (1705.16)
Report requirement/submittal to building official (1704.2.4, 1704.5)	Fire-resistant penetrations and joints (1705.17)
Prefabricated items (1704.2.5, 1705.10)	Smoke control (1705.18)
Steel construction (1705.2)	Wind requirements (1704.3.3, 1705.11)
Concrete construction (1705.3, 1901.6)	Seismic resistance
Masonry construction (1705.4, 2101.3)	(1704.3.2, 1705.12, 1705.13)
Wood construction (1705.5)	Contractor responsibility (1704.4)
Prepared fill and foundations	Structural observations (1704.6)
(1705.6 - 1705.9)	Testing (other) <i>(1706 - 1709)</i>

SOILS AND FOUNDATIONS (Chapter 18)

Soils investigations/Reports (1803.1, 1803.2, 1803.3, 1803.6)	Foundation walls, retaining walls and embedded posts and poles (1807)
Soil classification (1803.5)	Foundations (1808)
Excavation, grading and fill (1804)	Shallow foundations (1809)
Dampproofing and waterproofing (1805)	Deep foundations (1810)
Load-bearing values (1603.1.6, 1806)	
STRUCTURAL MATERIAI	LS (Chapters 19, 21, 22, 23)
CONCRETE	E (Chapter 19)
Plain, reinforced and structural plain	Construction documents (1901.5)
concrete design/construction standard specified (1901.2, 1905, 1906)	Slab provisions (1907)
	Shotcrete (1908)
MASONRY	(Chapter 21)
Design method, construction standard	Seismic design <i>(2106)</i>
specified (2101.2, 2104)	Glass unit masonry (2110)
Masonry units <i>(2103.1)</i>	Fireplaces/Heaters/Chimneys
Mortar type/grout (2103.2, 2103.3)	(2101.3.1, 2111, 2112, 2113)
Metal reinforcement (2103.4)	
STEEL (C	Chapter 22)
Structural steel design/construction	Steel cable structures (2208)
standard specified (2205)	Steel storage racks (2209)
Composite structural steel and concrete (1901.4, 2206)	Cold-formed steel design/construction standard specified <i>(2210)</i>
Open-web steel joist design/construction standard specified (2207)	Cold-formed steel light-framed design/ construction standard specified (2211)
WOOD (C	Chapter 23)
Design method option used (2301.2)	Structural composite lumber (2303.1.10)
MATERIAL STANDARDS / CONSTRUCTION REQUIRE-	Structural log members (2303.1.11)
MENTS (2303 - 2306)	Round timber poles and piles (2303.1.12)
Lumber <i>(2303.1.1)</i>	Engineered wood rim board (2303.1.13)
Wood I-joists (2303.1.2)	Fire-retardant-treated wood (2303.2)
Glue-laminated timbers (2303.1.3, 2303.1.4)	Hardwood and plywood <i>(2303.3)</i> Trusses <i>(2303.4)</i>
Wood structural panels (2303.1.5, 2304.6, 2304.7, 2304.8)	Joist hangers (2303.5)
Fiber-, hard-, & particle-, boards (2303.1.6 - 2303.1.8)	Fasteners and fastening (2303.6, 2304.10, Table 2304.10.1)
Decay and termite protection (2303.1.9, 2304.12)	Heavy timber construction (2304.11) Shear walls and diaphragms (2305, 2306)

WOOD (continued)

	Wall construction (2308.5) Wall bracing (2308.6) Roof and ceiling framing (2308.7) Design of elements (2308.8) ERIALS (Chapters 24, 25, 26) _AZING (Chapter 24) Safety glazing (2406, 2407, 2408, 2409)			
GYPSUM BOARD ANI Gypsum board materials (2506, Table 2506.2, Table 2508.1)	D PLASTER (Chapter 25) Plaster (2507, 2508, 2510 - 2513) Reinforced gypsum concrete (2514)			
PLASTIC	(Chapter 26)			
FOAM PLASTIC INSULATION (2603) Labeling (2603.2, 2603.5.6) Surface-burning characteristics (2603.3, 2603.5.4) Thermal barrier (2603.4) Thermal barrier (2603.4) Exterior walls/Roofs (2603.5, 2603.6) Interior finish/trim in plenums (2603.7) Protection against termites (2603.8)	Wind resistance (2603.10)Cladding attachment (2603.11, 2603.12)MISCELLANEOUS PLASTICSInterior finish and trim (2604)Plastic veneer (2605)Light-transmitting plastics (2606 - 2611)Plastic composites (2612)Fiber-reinforced polymer (2613)			
BUILDING SERVICES*	Chapters 27, 28, 29, 30			
	YING SYSTEMS (Chapter 30)			
Construction standard specified (3001.2)Hoistway enclosures (3002)Opening protectives (3002.1.1)Emergency operations (3003)Conveying systems (3004)	Machine rooms (3005) Elevator lobbies/hoistway opening protec- tion (3006) Fire service access elevator (3007) Occupant evacuation elevator (3008) .28) and Plumbing (Ch.29) Plan Review Records			

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 32)

SPECIAL CONSTRUCTION (Chapter 31)

Membrane structures (3102)	Automatic vehicular gates (3110)						
Temporary structures (3103)	Photovoltaic panels/modules (3111)						
Awnings and canopies/Marquees (3105, 3106) Signs (3107) Telecommunication and broadcast towers (3108) Swimming pool enclosures (3109)	PEDESTRIAN WALKWAYS AND TUNNELS (3104) Construction and use (3104.3, 3104.4) Separation (3104.5, 3104.10) Public way (3104.6) Egress (3104.7 - 3104.9)						
ENCROACHMENTS INTO THE PUE	BLIC RIGHT-OF-WAY (Chapter 32)						
Below grade (3202.1)	Temporary (3202.4)						
Above grade (3202.2, 3202.3)							
APPENDICES A - M Appendices adopted (101.2.1)Compliance verified							

NOTES

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Best regards,

Sczepanski, Ted

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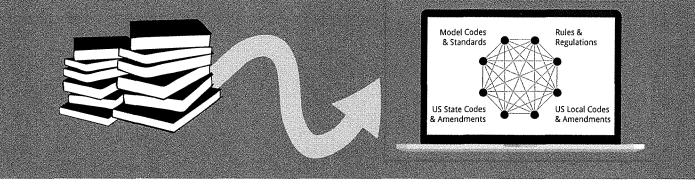
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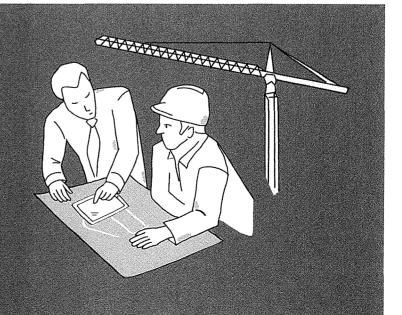
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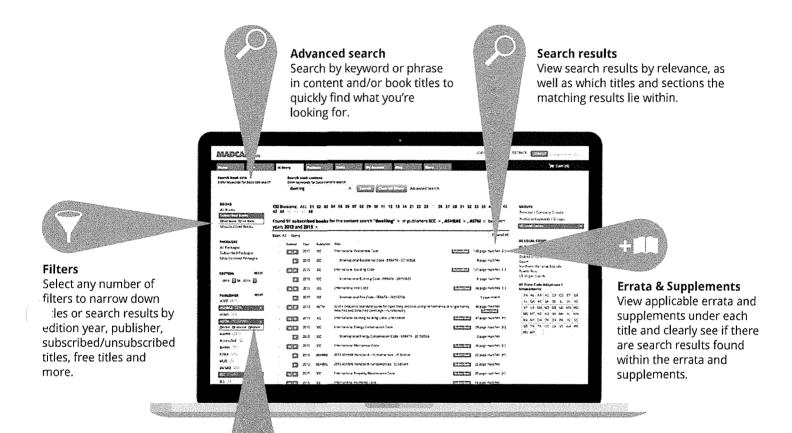
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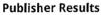
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US State Code Adoptions / Amendments

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CA Adoptions / Amendments

CA : Adopted Model Codes 2010 CA : Adopted Model Codes 2013 CA : Custom State Codes 2012 CA : Integrated Codes 2007 CA : Integrated Codes 2010 CA : Integrated Codes 2013

CA jurisdiction Adoptions / Amendments

City of Dublin

Alameda County Adopted State Codes 2010 Adopted State Codes 2013 Amendments 2010 City of Alameda Adopted State Codes 2013 City of Berkeley Adopted State Codes 2013 Amendments 2013

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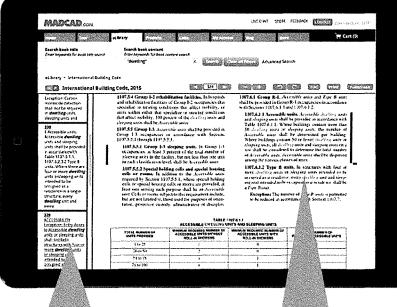
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Hypertext View vs Page View. View codes & standards in two different formats.



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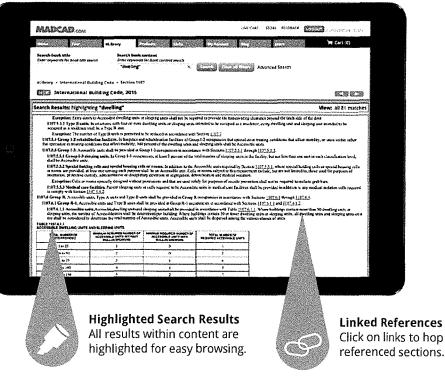
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Time savings Your team will save significant amounts of time when referring to codes, helping projects get done quickly and more efficiently with less costly errors.

About MADCAD.com

MADCAD.com is a product of Compu-tecture, Inc, a technology company based in Washington, DC.

ompu-tecture's mission is to provide codes and standards in an

easy-to-use, intelligent format to support better enforcement and compliance, and as a result, safer and more resilient buildings.

By licensing content from major SDOs

as well as collecting content from all 50 States and Local jurisdictions, MADCAD.com puts the majority of codes and standards you need at your fingertips, no matter where you are based. As the Building Official, Ted Sczepanski will present the City's understanding of the Administration and enforcement of 1972 PA 230 (the Act) and the state construction code, pursuant to Section 8(b) of the Act.



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

January 18, 2017

Wendy L. Jean-Buhrer, Manager City of Grand Blanc 203 E. Grand Blanc Rd. Grand Blanc, MI 48439

Dear Ms. Jean-Buhrer:

The City of Grand Blanc Application to Administer and Enforce was received by the Bureau of Construction Codes on Tuesday, January 17, 2017.

Pursuant to statutory requirements the application will be presented to the Construction Code Commission at their April 12, 2017, meeting for their review and decision on the matter. You or your representative are welcome to be in attendance at this meeting to support your application. You will be notified within 90 days of the April 12, 2017, Commission meeting of their decision.

The State of Michigan, Bureau of Construction Codes will continue to administer and enforce the Act and the Electrical, Mechanical, and Plumbing codes within the City until the Commission renders its decision. If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

Dianne Barmes, Administrative Manager Licensing and Complaints Division Bureau of Construction Codes

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City of Grand Blanc

203 E. Grand Blanc Rd. Grand Blanc, MI 48439 www.cityofgrandblanc.com

810-694-1118 Fax 810-694-9517

MAYOR Susan J. Soderstrom

CITY COUNCIL Paula L. Nas - Mayor Pro-Tem Lisa A. Blondell John W. Creasey Chris Douglas Julie M. Nielsen

CITY MANAGER Wendy L. Jean-Buhrer

CITY CLERK-ASST. CITY MANAGER Bethany J. Smith

FINANCE DIRECTOR-TREASURER Dianne M. Waterworth

CITY ASSESSOR Tonya Lall

CITY ATTORNEY Walter P. Griffin January 13, 2017

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes/Office of Administrative Services P.O. Box 30254 Lansing, MI

Re: Application to Administer and Enforce

Dear Commission Members:

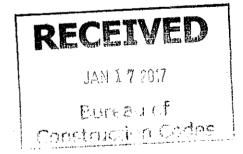
The City of Grand Blanc is requesting approval to administer and enforce the electrical, plumbing and mechanical code at the April 12, 2017 Commission meeting. I have enclosed the ordinance, resolution and the agreement for the independent contractor for these services which will serve under the part time building official.

I look forward to meeting each of at the April meeting.

If you have any questions, please contact me at any time.

Sincerely

Wendy L. Jean-Buhrer City Manager



Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 E-Mail: bccoas@michigan.gov

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uthority: 1972 PA 230 enalty: Failure to provide the information may result in denial of your request,			LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.						
Penalty: Failure to provide the information may result in denia									
NAME OF GOVERNMENTAL SUBDIVISION			CONTACT PERSON (Elected Official)						
CITY OF GRAND BLANC			SUSAN SODERSTROM						
ADDRESS (Street Number and Name)									
203 E. GRAND BLANC ROAD									
CITY	COUNTY				STATE	ZIP CODE			
GRAND BLANC	GENESEE				MI	48439			
TELEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include Area C	lode)		E-MAIL ADDRESS					
(810) 694-1118	(810) 694-9517			MAYOR@U	JIYOFGR	ANDBLANC.COM			
Code Adoption									
Pursuant to Section 8b(6) of 1972 PA 2 and the state construction code, as defi of the certified adopted ordinance as:	ned in Section 2(a)(1)(I) of	the Act and a	as provided fo	r in Section 4	4(2) of the Act, a cop			
attached.	รงกายปฏ เอริษัทยายแ	ty tor	aunniistidti		centent of th	ie act and the code l			
Please list the code or parts thereof to be	enforced.								
Section 8b(6) of 1972 PA 230 (the Act); Section 4(2) - Electrical, Plumbing and Mechanical Codes									
				, i iamoing					
By checking the boxes below you are certify	ing the following:								
The governmental subdivision and the en and the code and all related acts and rule		ualified	l by experiend	ce or training	to administer	and enforce this act			
Agency personnel are provided as neces	ary.								
Administrative services are provided.					ECF	IVED			
Plan review services are provided.									
☑ Timely field inspection services will be provided.					JAN 1	7 2017			
A Board of Appeals is in place per MCL 125.1514.						+ LOH			
I Have immediate access to the codes & st	andards for which yo	u have	applied to a	dminister & er	nforBurea	au of			
) Structi	on Codes			
BUILDING OFFICIAL INFORMATION Name: THEOD	ORE SCZEPAN	ISKI				er: 002112			
Certification									
I certify the information given in this appl	ication to administe	r and	enforce is tri	ue and accur	ate to the be	est of my knowledge			
r certify the mormation given in this appr		anu		ue anu accui	ate to the bo	eat of my knowledge			
Name of Elected Official (Type or Print) <u>Sτ</u>	<u>ısan J. Soders</u>	trom		Title_	Mayor				
1									
Signature of Elected Official	- podusti	L_2/~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	Date_	1/12/17				
	/								

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rev. 05/15)

RESOLUTION

At the regular meeting of the City Council of the City of Grand Blanc, Genesee County, Michigan held at the City of Grand Blanc Municipal Building, in said City on the Twenty Sixth day of September, 2012 at 7:00 P.M.

Present: Telliga, Adkins, Wolfgram, Bender, Freel

Absent: Bappert

The following resolution was offered by Councilman Telliga and supported by Councilman Wolfgram.

WHEREAS, the City currently administers and enforces the State Construction Code for building; and

WHEREAS, it is the City's desire to assume responsibility for the administration and enforcement of the State Construction Code for electrical, mechanical and plumbing pursuant to MCL 125.1508b; and

WHEREAS, the proposed amendment will improve the service provided to builders, contractors and home owners as the plan review, permitting and inspections will be conducted by one governmental unit instead of two; and

WHEREAS it is deemed in the best interest of the public health, safety and welfare of the citizenry of the City of Grand Blanc to administer and enforce the State Construction Code.

NOW THEREFORE BE IT RESOLVED THE CITY COUNCIL OF THE CITY OF GRAND BLANC hereby INTRODUCES FOR PUBLICATION AND SUBSEQUENT ADOPTION Ordinance Number 10-12-01.

Adopted: Yeas 3 Nays 2

Susan J. Soderstrom

Mayor

hand Smith

RECEIVED

JAN 17 2017

Bureau of Construction Codes

RECEIV

JAN 17 2017

CITY OF GRAND BLANC COUNTY OF GENESEE, STATE OF MICHIGAN CITY ORDINANCE NO 10-12-01 Bureau of Construction Codes

CITY OF GRAND BLANC ADMINISTRATION AND ENFORCEMENT OF THE MICHIGAN MECHANICAL, ELECTRICAL AND PLUMBING CODES.

AN ORDINANCE TO DESIGNATE AN ENFORCING AGENCY TO DISCHARGE THE RESPONSIBILITY OF THE CITY OF GRAND BLANC IN GENESEE COUNTY, UNDER THE PROVISIONS OF THE STATE CONSTRUCTION CODE ACT, 1972 P.A. 230 AS AMENDED

IT IS HEREBY ORDAINED BY THE CITY OF GRAND BLANC, GENESEE COUNTY, MICHIGAN:

Section 1. - AGENCY DESIGNATED

Pursuant to the provisions of the Michigan Mechanical, Electrical, and Plumbing Codes, in accordance with Sections 8b and 23 of 1972 P.A. 230, as amended, the mechanical, electrical, and plumbing code officials of the City of Grand Blanc are hereby designated as the enforcing agencies to discharge the responsibility of the City of Grand Blanc under 1972 P.A. 230, State of Michigan, as amended. The City of Grand Blanc assumes responsibility for the administration and enforcement of said Act throughout its corporate limits.

Section 2. – ENFORCEMENT AND PENALTIES

1. Failure to comply with the Michigan Mechanical, Electrical or Plumbing Codes shall constitute a violation of this ordinance. Each day that there is such a failure to comply will constitute a separate offense.

2. Violation of the state Mechanical, Electrical or Plumbing Codes shall be deemed to be a nuisance per se. Any person or anyone acting on behalf of any such person who shall violate any provisions of said codes, or who shall fail to comply with any requirements thereof, shall be in violation of a municipal civil infraction as provided in City of Grand Blanc Codified Ordinances Section number 202.99. A violator shall also be subject to such additional sanctions, remedies, and judicial orders as are authorized under Michigan law, including costs and attorneys' fees.

Section 3 – SEVERABILITY

This ordinance and the various parts, sentences, and clauses thereof are hereby declared to be severable and if any in part, sentence, paragraph, section or clause is adjudged unconstitutional or invalid, the same shall not affect the validity of this ordinance as a whole or any part thereof, other than the part declared to be unconstitutional and invalid.

Section 4 - REPEAL CLAUSE

All ordinances or parts of ordinances in conflict herewith are repealed to the extent necessary to give this ordinance full force and effect.

Section 5 – EFFECTIVE DATE

This ordinance shall take effect and be in force twenty 20 days after its publication. Nays 🖉 Yeas 6 Adopted:

Jusan / Sodies Two Susan J. Soderstrom, Mayor

Bethany J. Smith,

RECEIVED JAN 1 7 2017 Bureau of Construction Codes

ORDINANCE NO: 2013-02

An Ordinance to be included in Ordinance Chapter 14 – Building & Housing Code

THE CITY OF GRAND BLANC ORDAINS:

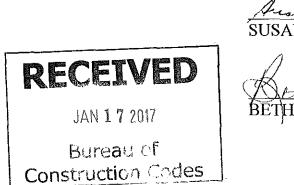
ORDINANCE NO. , SECTION

AN ORDINANCE TO DESIGNATE ENFORCING AGENCY TO DISCHARGE THE RESPONSIBILITY OF CITY OF GRAND BLANC UNDER THE PROVISIONS OF THE STILLE-DEROSSETT-HALE SINGLE STATE CONSTRUCTION CODE ACT, 1972 PA 230.

SECTION 1. ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), The City of Grand Blanc hereby elects to administer and enforce the 1972 PA 230 and the **Michigan Building Code**. The City of Grand Blanc shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

SECTION 2. REPEALS. All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

SECTION 3. PUBLICATION. This ordinance shall be effective after legal publication and in accordance with provisions of the Act governing same.



SUSAN SODERSTROM, Mayor

Barmes, Dianne (LARA)

From: Sent: To: Cc: Subject: Attachments: Barmes, Dianne (LARA) Wednesday, March 08, 2017 11:16 AM Dan, Nutt Allaire, LeeAnn (LARA) Mechanical Code moorland twp M denial order.doc; moorland twp M review letter.doc; moorland twp M review.doc; Application to Administer and Enforce.pdf

Mr. Nutt:

Following research I was able to locate some additional information regarding the Mechanical code. The Bureau of Construction Codes records indicate the State has had mechanical code authority in the Township since March 25, 1981 with no interruption.

The Township was granted jurisdiction over Electrical - January 12, 2000, Building & Plumbing – July 31, 2001, Plan Review & Building Official – October 1, 2007.

A 2011/2012 application from Moorland Twp. to administer and enforce the Mechanical code was presented to the Construction Code Commission. The attached letters addressing that application were sent to the Township office. The denial order document explains why the application was not approved.

Based upon the January 9, 2012, Decision of the Michigan Construction Code Commission your recent application will need to be addressed by the Construction Code Commission. I will present the application you submitted and received in this office on February 8, 2017. However, please review the new application (attached) and the letter I sent to you dated February 13, 2017, outlining the issues the Commission wishes to address with all applicants.

Upon submittal of your application to the Commission, you will be notified as to the date of the Commission meeting where your application will be reviewed.

Thank you

Dianne Barmes, Administrative Manager Licensing and Complaints Division Bureau of Construction Codes 1st Floor, Ottawa Building 611 W. Ottawa, Lansing, MI 48933 517/241-6479 - tele 517/373-8547 - Fax

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES CONSTRUCTION CODE COMMISSION 2501 Woodlake Circle Okemos, MI 48864

Mailing Date: January 9, 2012

Moorland Township (Muskegon Co) 12416 Apple Avenue Ravenna, MI 49451 Application to Administer and Enforce Mechanical CCC Document No. 12-13

DECISION OF THE MICHIGAN CONSTRUCTION CODE COMMISSION

On January 4, 2012, the Construction Code Commission reviewed Moorland Township's Application to Administer and Enforce as prescribed in the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1501. The application and all supplemental materials received before the meeting date were provided to all parties. The decision is issued pursuant to Section 8b (6) of 1972 PA 230, MCL 125.1508b (6).

FINDINGS

- 1. The Township did not provide a certified copy of an adopted ordinance assuming the responsibility for the administration and enforcement of the Michigan Mechanical Code.
- 2. The Township's proposed application for a mechanical permit form does not identify the Township as the enforcing agency and is not a form prescribed for use by the Commission in accordance with Section 10 (1) of the Act.
- 3. The Township did not provide a copy of its proposed mechanical permit form for review.
- 4. The Township has indicated that it is utilizing Sullivan Township's Construction Board of Appeals, but the Township did not provide a written set of procedures for the governance of its board of appeals.
- 5. There is no cost analysis provided to establish the fee charged for a plan review.
- 6. There is no cost analysis provided to establish the fee charged for an inspection.
- 7. There was no information regarding the method and analysis utilized to establish the fees charged for mechanical code enforcement services provided to the public.

- 8. The Township charges a fee for work started without a permit, but the Township does not indicate the amount of the additional fee.
- 9. The Township does not provide the fee for a pre-manufactured unit.
- 10. There were no copies of inspector employment agreements or contracts provided for review.
- 11. There was no information providing the means and method of inspector compensation.
- 12. There was no information providing the days and hours of enforcing agency operation
- 13. There was no proposed building department budget and staffing information provided for review.
- 14. The Township did not provide assurance that a complete library of codes and standards is available for use by the inspectors and plan reviewers as identified in Chapter 15 of the 2009 Michigan Mechanical Code.
- 15. The Township's application indicates that its mechanical inspector is associated with a private inspection agency and names the Township Supervisor as the governmental official responsible for decision making as it relates to code administration and enforcement. However, a review of the Bureau's inspector registration records indicates that the supervisor is not registered as a code official in accordance with 1986 PA 54. The Township must identify a registered code official to serve as the governmental official.

CONCLUSION

Moorland Township has not demonstrated that it is "qualified by experience and training to administer and enforce this act and the code and all related acts and rules" as required by MCL 125.1508b (6) for the reasons enumerated above.

THEREFORE, it is the decision of the Construction Code Commission to not approve Moorland Township's Application to Administer and Enforce. In accordance with Section 8b (6) of 1972 PA 230, MCL 125.1508b (6), a governmental subdivision that receives a disapproval may resubmit its application for approval.

January 9, 2012

Irvin J. Poke, AIA Director, Bureau of Construction Codes



RICK SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES IRVIN J. POKE DIRECTOR

STEVEN H. HILFINGER DIRECTOR

November 15, 2011

Mr. Chuck Kreps, Supervisor Moorland Township 12416 Apple Avenue Ravenna, MI 49451

RE: Application to Administer and Enforce Michigan Mechanical Code

Dear Mr. Kreps:

The Township's Application to Administer and Enforce and related information, received in this office on October 14, 2011, has been reviewed.

It is requested that Moorland Township review and provide all the information and documentation requested upon the Application to Administer and Enforce and checklist forms, and forward the material to this office for review. The comments and checklist shall not be presumed to be exclusive of any additional information deemed to be appropriate and necessary to effectuate the general purposes of the Act. Additional information may be requested by the bureau to complete the review. Our office must receive and complete a successful review of the Township's information by no later than November 30, 2011, in order to be included upon the agenda for the next meeting of the State Construction Code Commission scheduled for January 4, 2012.

I have enclosed a copy of the current Application to Administer and Enforce form and a sample ordinance to assist the Township in assuming the responsibility to enforce the Michigan Mechanical Code. If you have questions, you may contact our office at (517) 335-2972.

Sincerely,

Michael Somers, Analyst Office of Administrative Services

MDS/ms Enclosures

Cc: Kimberly Borgman, Clerk, Moorland Township, w/o encl.

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MOORLAND TOWNSHIP MUSKEGON COUNTY, MICHIGAN

(Ordinance No. 38.0/)

AN ORDINANCE TO AMEND MOORLAND TOWNSHIP ORDINANCES, RULES, AND REGULATIONS TO AUTHORIZE THE TOWNSHIP OF MOORLAND TO ADMINISTER AND ENFORCE THE MICHIGAN BUILDING CODE, ELECTRICAL CODE, MECHANICAL CODE, AND PLUMBING CODE AND TO DESIGNATE THE ENFORCING AGENCY THEREOF.

The following Ordinance was offered for adoption by Township Board Member 5. Kalisan/Seconded By, Township Board Member K. Borgman.

THE TOWNSHIP OF MOORLAND (the "Township") ORDAINS

Section 1. <u>Purpose</u>. This Ordinance designates the Township as having responsibility for the administration and enforcement of the Michigan Building Code, Electrical Code, Mechanical Code, and Plumbing Code under the provisions of the State Construction Code Act, being Public Act No. 230 of the Public Acts of 1972, as amended.

Section 2. <u>Agency Designated</u>. Pursuant to the provisions of the State Construction code Act, in accordance with Act 230 of the Public Acts of 1972, as amended, the Township will enforce and administer the Michigan Building Code, Electrical Code, Mechanical Code, and Plumbing Code and the Township's Building Inspector is hereby designated as the enforcing agency to discharge the responsibility of the Township under Act 230 of the Public Acts of 1972, as amended, State of Michigan. The Township assumes responsibility for the administration and enforcement of said statute throughout the Township.

Section 3. <u>Violation</u>. Any violation of the Michigan Building Code, Electrical Code, Mechanical Code, and plumbing Code, as administered and enforced by the Township, shall constitute a municipal civil infraction violation.

Section 4. Eccs. The fees to be charged by the Township for administration and enforcement of the Michigan Building Code, Electrical Code, Mechanical Code and Plumbing Code shall be as set from time to time by the Township Board by resolution.

Section 5. <u>Repeals</u>. All ordinances inconsistent with the provisions of this Ordinance are hereby deemed repealed to the extent of such inconsistency,

Section 6. <u>Publication</u>. This Ordinance (or a summary thereof) shall be published in the newspaper in accordance with the provisions of Michigan Law governing the same.

Section 7. Effective Date. This Ordinance shall become effective on July 31, 2001.

YEAS:	5				
NAYS:	0				
ABSTAI	N/ABSENT:	0	······································		
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		, du	nberly	Jorgman	<i></i>

Kimberly Borgman Moorland Township clerk

CERTIFICATION

I hereby declare that the above is a true copy of an ordinance adopted by the Moorland Township Board at a regular meeting held on July 9, 2001, at the Moorland Township Hall, pursuant to the required statutory procedures.

DATED: (2001

Respectfully Submitted,

By Kimberly Horgman

Moorland Township Clerk

10591 (001) 140012.01



RICK-SNYDER GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS LANSING

SHELLY EDGERTON DIRECTOR

February 13, 2017

Daniel Nutt, Supervisor Moorland Township 12416 E. Apple Avenue P.O. Box 346 Ravenna, MI 49451

Dear Mr. Nutt:

The Moorland Township Application to Administer and Enforce was received in the Bureau of Construction Codes office on February 8, 2017. As submitted we are unable to present your application to the Construction Code Commission.

In your letter you indicate that, approximately 25 years ago, Moorland Township did not file a document properly. Pursuant to the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(5) the Township was to have submitted a notice of intent to continue to administer and enforce the act and code. Failure to submit this document reverted the enforcement of the act and the code to the Bureau of Construction Codes.

Therefore, Moorland Township must follow the process outlined in MCL 125.1508b(6) and submit an application with ALL required documents. The application **must** include a copy of the certified adopted ordinance assuming responsibility for administration and enforcement of the act and the code. The application, with the proper documentation, will be submitted by BCC to the Construction Code Commission (CCC) to render a decision on the application.

Once the CCC receives a complete application you will be notified of the date the application will be placed on the CCC meeting agenda. You or your representative, along with enforcing agency personnel should plan to be in attendance at this meeting to respond to Commission inquiries regarding your application.

Issues to be addressed by the Commission may include, but not be limited to, the following:

- Reason for application
- Your proposed program budget
- Proposed public facing documents <u>i.e.</u>:
 - o Permits, correction/violation notices, certificates of occupancy, stop work orders, etc.
- Drafts of proposed fees for permits, plan reviews, inspections, etc.
- Communication process with enforcing agencies
- Registration of governmental subdivision and enforcing agency personnel
- Board of Appeal members per MCL 125.1514
- Administrative personnel and services provided *i.e.*:
 - o FOIA, retention schedule, location of official records/documents, etc.

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Daniel Nutt Moorland Township Application to Administer and Enforce February 13, 2017 Page 2

- Processes for establishing fees and variance of code process
- Agency personnel are provided as necessary.
- Plan review services are provided and timely field inspection services will be provided.
- Access to the codes & standards for which you have applied to administer & enforce.
- Your understanding of the Administration and enforcement of 1972 PA 230 (the Act) and the state construction code, pursuant to Section 8b(6) of the Act.

If you have questions regarding this issue please feel free to contact me at (517) 241-6479.

Sincerely,

. .

Dianne Barmes, Administrative Manager Licensing and Complaints Division

Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972 E-Mail: bccoas@michigan.gov

www.michigan.gov/bcc	
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Authority: 1972 PA 230 Penalty: Failure to provide the information may result in denia	1972 PA 230 Failure to provide the information may result in denial of your request.			LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities.			
NAME OF GOVERNMENTAL SUBDIVISION			ON (Elected Official))			
Moorland Township		Daniel Nut	t				
ADDRESS (Street Number and Name)							
12416 E. Apple Avenue				07175			
СІТҮ	COUNTY			STATE	ZIP CODE		
Ravenna TELEPHONE NUMBER (Include Area Code)	Muskegon FAX NUMBER (Include Area Co	4-1	E-MAIL ADDRESS	M	49451		
· · ·		aa)		_ @moorlandt			
(231) 853-2015	(231) 853-5013		supervisorie	gnoonanut	wp.com		
Code Adoption	ni energi Agge bannin i inte V		in in a popularia.	eren en der ser			
To assume responsibility for the adminis 1972 PA 230. Attach a copy of the cert of the act and the code.							
State Code(s) to be Enforced		· ۲۰۰۰					
	lectrical	j 🖾 Me	chanical				
 By checking the boxes below you are certifying the following: The governmental subdivision and the enforcing agency are qualified by experience or training to administer and enforce this act and the code and all related acts and rules. Agency personnel are provided as necesary. Administrative services are provided. Plan review services are provided. Timely field inspection services will be provided. A Board of Appeals is in place per MCL 125.1514. Have immediate access to the codes & standards for which you have applied to administer & enforce. 							
BUILDING OFFICIAL INFORMATION Name: Michigan Township Services Muskeyon Registration Number: 204480							
Certification							
I certify the information given in this appl	ication to administer	and enforce is tri	le and accur	ate to the be	st of my knowledge.		
Name of Elected Official (Type or Print) Signature of Elected Official	INIEL NUTT		Title	<u> Super</u> 02/01	VISOR 6/2017		

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rev. 03/15)

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FEB 0 8 2017
Bureau of
Construction Codes

Use for Spring Lake Twp, Sullivan Twp and Moorland Twp

ELECTRICAL PERMIT	Michigan Township Services Make checks payable to MTSM or Michigan Township Services Muskegon or for Spring Lake Twp - make payable to Spring Lake Township				
michigantownshipservicesmuskegon.com	· ·			rt, MI 49415	
mtsm@frontier.com			•		
lurisdiction	Ph. 231-865-6977 or 231-865-3310 Fax 231-865-6191				
Junsaiction		Date			
PERMIT NO			e of Serv		
			Tomporan	y UpgradePermanent	
Project address			-		
Owner's name and address			amps ,	overheadunderground	
CityStateZip		Ту	pe of pro	oject	
Phone Number		Co	mmercia	I: New Remodel	
e·mail					
- * i i di i		Re	sidentia	l: New Remodel	
The permit holder is responsible for arranging access for inspections. If an inspection is request completed due to locked or otherwise inaccessible job site, a re-inspection lee may be charged.	ed, but cannot be	De	scription	n of work	
ELECTRICAL PERMIT FEE SCHEDULE	PER UNIT	NUMBER	FEE		
Permit base fee, plus permit unit charge (includes one inspection)	\$35.00	1	\$35.00		
Final Inspection	\$35.00				
Services through 200 amp	\$10.00			Building Permit Number	
over 200 amp through 600 amp	\$15.00			<u> </u>	
over 600 amp through 800 amp	\$20.00				
over 800 amp	\$25.00				
Circuits	\$4.00			Name of Power Co	
Lighting fixtures per 25 and fraction thereof	\$6.00				
Fumace, unit heaters, Dishwasher, garbage disposal and range hood	\$5.00				
Electrical heating units (baseboards), each	\$4.00				
Power outlets (including ranges, dryers, etc.), each (30 amp or more)	\$7.00				
Rewire/Repairs	\$20.00			Energy request number	
Feeders, bus ducts, etc. per 50 feet and fraction thereof	\$6.00				
Mobile home park site	\$6.00			· · · · · · · · · · · · · · · · · · ·	
Recreational vehicle park site	\$4.00				
K.V.A. & H.P., each (well pumps, A.C., etc.)	\$6.00				
Fire Alarms - Commercial - up to 10 stations	\$50.00				
over 10 stations and horns	\$100.00			· ·	
certification (upon request)	\$20.00				
Additional inspection fee (service, underground, etc.)	\$35.00				
Signs, each	\$35,00				
Commercial Plan Review Fee based on \$50 per hour - \$50 min	\$50.00				
1	T	OTAL FEE			

. .

This permit will be expired/canceled when no inspections are requested and conducted within six months of the date the permit is issued or the last inspection. Expired/canceled permits cannot be refunded. A new permit is required if work to be completed after expiration of permit **Contractor Information**

NAME			FAX NO.	
ADDRESS	·····		TELEPHONE NO.	
СПТҮ	STATE	ZIP CODE	e-mail	
	<u>_</u>		JMBER	
FEDERAL EMPLOYER ID NUMBER OR REASON FOR EXEMPTION	;;;;	EXPIRATIO	NDATE	
WORKERS COMP. INSURANCE CARRIER OR REASON FOR EXEMPTION		• • • •		
MESC EMPLOYER NUMBER OR REASON FOR EXEMPTION				

ige for the required inspections.

687

Home Owner Affidavit t hereby certify the electrical work described on this permit application shall be installed by myself in my own single family dwelling in which 1 am living or about to occupy. All work shall be installed in accordace with the local Electrical Code and shall not be enclosed, covered or put into opertion until inspected and approved by the Electrical Inspector. I will cooperate with the Electrical Inspector and assume the responsibility to arrange for the necessary inspections. Signed

Mechanical Permit

Use for Spring Lake Twp and Sullivan Twp

Jurisdic	tion	of:	

· · · · · · · · · · · · · · · · · · ·	
PERMIT NUMBER	
Address of project	·
Owner	
Owners address if different than above	
City	State Zip

Phone #_____

E-mail____

The permit holder is responsible for arranging access for inspections. If an inspection is requested but cannot be completed due to a locked or otherwise inaccessible job site - a re-inspection fee may be charged.

Make checks payable to MTSM or Michigan Township Services or for Spring Lake Twp - make payable to Spring Lake Twp

Michigan Township Services Muskegon

5855 Airline Fruits Ph, 231-865-6977 or 8 Fax 231-865-6191		2
www.michigantownship mtsm@frontler.com	servicesmuskegon.	com .
Date:	·	-
Type of project Commercial - Ne	w 🔲 Remodel [Other
Residentiai Ne	w 🔄 Remodel 🕻	Other
Description of work to be	done	

Building Permit Number _____

.....

Single Family - fee schedule	Per Unit	Number	Fae		Per Unit	Number	Fee
Permit base fee (Includes one inspection)	\$35,00		\$35,00	Cooling towers - each,	\$40.00		
Final Inspection	435100		405.00	Compressor 15HP to 50HP each	\$35.00		-
Furnaces (heat pumps, bollers, wir hir, and	\$35.00			over 50 HP each	\$60.00		
decorative appliances)	\$20.00			Air Handiars - self contained units Ventilation and exbusst lans uner 1,500 CFM - each	\$7.00		
Fireplaces - Gas, soild fuel (wood or pellet stoves etc) Includes one inspection - base fee not regulred	\$70.00			1,500 CFM to F0,000 CFM - each	\$30,00		
Chimney factory built	\$20.00			Over 10,000 CFM - each	\$60.00		
Central Alr	\$20.00			Heat recovery and wall fan coild - each	\$12,00		
Duct system or hydronic piping	\$15.00			. Vait Heaters - each	\$20.00		
Solar equipment system, piping fee included	\$20.00			Ducts, insulation, piping, fire suppression/protection systems based on bid price			
Gas piping new Installtion	\$10.00			under \$3000	\$25.00		
Exhaust fans each	\$4.00		·····	\$3000 to \$7999	\$35.00		
LP and fuel oil tanks - piping fee included - each	\$15.00			\$8000 to \$10,999	\$45.00		
additional inspection	\$35.0 0			\$10 for each \$3000 over \$11,000 in addition to the above rate			
Total				Incinerators · each			-
Commercial/industrial				Highlefilers - each	\$20.00		
Permit base fee - includes one inspection	\$35.00			Electronic airo cloaner with washer - bach	\$12.00		
Gas.off burning equipment, new and/or conversion unit	\$25.00			Tanks - for widerground Lasks add \$5 to each of the following	\$35,00		
Gas piping - each outlet new installation	\$5.00			Under 276 gallon - each	\$15.00		
Solar equipement -each panel and tank - piping include	\$20,00			276 gallon to SSO · each	\$20.00		
A/C and refrigeration heat pumps self contained	\$20.00			over SSO gallons · each	\$30.00		
under IS HP A/C · each	\$20.00			additional Inspection	\$35.00		
evaporator colis each	\$30,00			final lospection	\$35.00		
Under 5 HP split system - each	\$30.00			Plan Review Fee - \$50 per hour (\$50 minimum)	\$50.00	· · ·	
5 HP and over split system - each	\$40.00			Total			
Chiller - each	\$90,00				<u>_</u>		

Permit will be expired/canceled if no inspections are requested or conducted within six months of the date of issuance or date of last inspection. Expired/canceled permit cannot be refunded and a new permit shall be issued if work is to be completed after expiration of permit.

Contractor Information

Name		Phone #		Fax #
Address	City	Stat	e	Zlp Code
License #	Expiration date	Expiration date		
Federal Employer ID number or reason for exe				
Workers Compinsurance Carrier or reason for				
MESC Employer number or reason for exempt				

CONTRACTOR AFFIDAVIT: All work shall be installed in accordance with the current Mechanical Code and I will assume the responsibility to arrange for the required inspections

HOME OWNER AFFIDAVIT:

I hereby certify mechanical work described on this permit shall be installed by myself in my own single family dwelling in which I am living or about to occupy. All work shall be installed in accordance with the local Mechanical Code and shall not be enclosed, covered up or put into operation until it has been inspected and approved by the Mechanical Inspector. I will cooperated with the Mechanical inspector and assume the responsibility to arrange for necessary inspections.

Signed ______

Use for Spring Lake Twp, Moorland Twp and Sullivan Twp

Make check payable to MTSM or Michigan Township Services Muskegon

3.00

6.00

4.00

3.00

35.00

50.00 TOTAL

PLUMBING	PERMIT	wp - make payable 5855 Airline	• -	-		
Jurisdiction of		231-865-3	5855 Airline - Fruitport, MI 49415 231-865-3310 or 231-865-6977 Fax 231-865-6191			
			mtsm@fron			
PERMIT NO	.		TYPE OF			
ob Location						
Owner			RESIDEN	ITIAL: NE		
)wner's Address			OTHER - D	ESCRIPTION	BELOW	
			DESCRIP	TION OF	WORK:	
lity	State	Zip				
hone No.	e-mail	address				
	accessible job site, a re-insp	· · · · · · · · · · · · · · · · · · ·	PER UNIT	NO.	FEE	
Permit base f	ee (includes one inspecti	on)	35.00	1	\$35.00	
Final inspec	tion	·····	35.00		····	
Undergroun	d inspection		35.00		· · · · · · · · · · · · · · · · · · ·	
Fixtures - ea	ach		4.00			
Stacks, ven	s and roof conductors		3.00			
Subsoil drains	, each		6.00			
Utility holes, c	atch basins, each		6,00			
Sewage sump	s, sewage ejectors, eacl	<u>ו</u>	6.00			
Water distribu	ting pipe (system)	Up to one inch	6.00			
		Over one inch	22.00	1 T		

Note: permit will be expired/canceled when no inspections are requested and conducted within six months of the date of issuance or the last inspection done. An expired/canceled permit can not be refunded and a new permit shall be required if the work is to be completed after permit has been expired/canceled. **Contractor Information**

Laboratory, hospital, clinic fixtures, equipment & devices

Water connected appliance, equipment & devices each

Commercial Plan Review Fee based on \$50 per hour - \$50 minimum

Reduced pressure zone backflow preventer each

Additional Inspections, trench or cross connection

Floor drains, special drains & traps

If work is started before permit is applied for,

an additional fee will be charged.

NAME	FAX NO.		
ADDRESS	· · · · · · · · · · · · · · · · · · ·		TELEPHONE NO.
СІТҮ	STATE	ZIP CODE	
LICENSE NUMBER	I	EXPIRATION DATE	e-mail address
FEDERAL EMPLOYER ID NUMBER OR REASON FOR EXEMPTION			
WORKERS COMP INSURANCE CARRIER OF REASON FOR EXEMPTION	3		,
MESC EMPLOYER NUMBER OR REASON FOR EXEMPTION	·····	······································	· · ·
REASON FOR EXEMPTION MESC EMPLOYER NUMBER OR		Numbing Codes and I will assume the respon	sibility to arrange for the required inspections.

HOMEOWNERS AFFIDAVIT I hereby certify the plumbing work described on this permit application shall be installed by myself in my own single family dwelling in which 1 am living or about to occupy. All work shall be installed in accordance with the Local Plumbing Code and shall not be enclosed, covered up, or put into operation until it has been inspected and <u>approved</u> by the Plumbing Inspector. 1 will cooperate with the Plumbing Inspector and assume the responsibility to arrange for necessary inspections.

Building Permit Fees

(These fees do not apply to commercial or industrial buildings)

Residential - One and Two Family and Accessory Buildings:

Calculate a valuation from the residential cost schedule Use that valuation with the Rate Table to determine the fee

Building Permit Rate Table * Valuation

<u>valuation</u>	
\$0 - \$1,000	\$40.00
\$1,001 - \$10,000	\$40.00 + \$2.00/100 over \$1,000
\$10,000 - \$1,000,000	\$210.00 + \$4.00/1,000 over \$10,000
Over \$1,000,000	\$4170.00 + \$3.00/1,000 over \$1,000,000

* Investigation Fee will be charged for work started without a permit. Re-inspection charge - \$40.00 per inspection or \$40.00 per hour (whichever is greater) Plan review fee -\$50.00 per hour -Residential Construction \$25.00 per hour - Decks, Detached Garages, Pools, Hot Tubs, Gazeboes and similar structures

Value for Determining Building Permit Fees

Base Mobile Home - Doublewide \$53.65 per sq. ft. \$65.00 - \$82.00 per sq. ft. **Base Modular Construction Base Custom Construction** \$87.50 per sq. ft. Add to base cost the following: Crawl Space \$9.35 per sq. ft. Basement - unfinished \$11.25 per sq. ft. Basement - finished \$23.35 per sq. ft. Additional Bath \$3382.00 \$2040.00 Additional half bath Fireplace & Chimney (prefab) Masonry Fireplace \$6065.00 2nd Masonry Fireplace(same chimney) \$1500.00 Porches and Breezeways \$21.00 per sq. ft. Wood Decks \$10.00 per sq. ft. \$12.25 per sq. ft. Wood Decks over 30" \$10.00 per sq. ft. Carports - Simple without sides Pools Contract price of pool \$21.00 per sq. ft. Garages - wood frame - unattached Attached or unattached slab \$18.65 per sq. ft. **Pole Buildings** \$11.70 per sq. ft. Shed \$11.25 per sq. ft. Reside - contract price or \$245.00 per square Reroof - contract price or \$152.75 per square

Miscellaneous Improvements - at cost (labor and materials or estimated contract price)

For Industrial, Commercial and other use groups use the current State fee schedule to establish minimum value of project. Once value is established run it thru the above Building Permit Rate Table. Plan Review fee - .15% of the project value over \$100,000 - minimum fee of \$150.00

\$3090.00



Moorland Township

12416 East Apple Avenue P.O. Box 368 Ravenna, MI 49451 (231) 853-2015

February 6, 2017

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes/Office of Administrative Services P.O. Box 30254 Lansing, MI 48909

To whom it may concern,

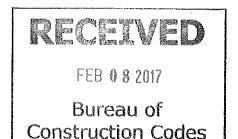
My name is Dan Nutt, newly elected supervisor of Moorland Township, located in Muskegon County, Michigan. I am writing in regard to mechanical inspections.

From what I understand, approximately 25 years ago, Moorland Township did not file a document properly, and as a result our mechanical inspections were never given back to the township. At this point I am requesting that, in lieu of filling out the requested paperwork and providing the documents necessary, that we receive our mechanical inspection abilities back to the township.

Thank you for your consideration in this matter. Please feel free to call our office with any questions or concerns.

Regards,

Dan Nutt Township Supervisor



CONSTRUCTION CODE INSPECTIONS SERVICES AGREEMENT

THIS AGREEMENT, made and entered into this $\underline{/3}^{\prime\prime\prime\prime}$ day of $\underline{/e} \ b_{\mathcal{R}_{MARY}}$, 2006, by and between Moorland Township with its principal offices at 12416 E. Apple Avenue, Ravenna, MI 49451 (hereinafter referred to at the "Township"), and Michigan Township Services Muskegon, Inc., a Michigan Corporation with business offices locates at 384 N. Third, suite E, Fruitport, MI 49415 (hereinafter referred to as the "Contractor").

WITNESSETH:

WHEREAS, THE Township has by ordinance, and pursuant to the Michigan State construction code Act (1972 PA 230, as amended; hereinafter, "SCCA"), undertaken the responsibility for administration and enforcement of certain of the codes and code sections referred to in that Act (hereinafter, referred to as "the Codes"); and

WHEREAS, THE Township and the enforcing agencies designated by it to administer and enforce codes (hereinafter, "Enforcing Agency") require expert assistance in conducting inspections mandated by the SCCA and applicable codes and regulations.

NOW, THEREFORE, for and in consideration of the mutual covenants hereinafter contained, IT IS HEREBY AGREED as follows:

1.0 SCOPE AND MANNER OF SERVICES

- 1.1 The Municipality hereby employs Michigan Township Services Muskegon, Its officers, agents and employees, for the purpose of code enforcement administration as their Building Official, Building Inspector, Plan Reviewer, Electrical Inspector, Mechanical Inspector and Plumbing Inspector under State law and local ordinances for the Codes.
- 1.2 The contractor shall review all plans submitted and issue all building, Electrical, mechanical and plumbing permits.
- 1.3 The Contractor shall perform Building, Electrical, Plumbing and Mechanical Code Inspection duties as mandated by the applicable current Michigan Building and Residential Codes.
- 1.4 The Contractor shall respond to a request for an inspection within 24 hours (excluding weekends and holiday on which the offices are closed and occasional training days) from the time the Contractor receives a request to make an inspection.
- 1.5 The Contractor shall perform the services hereunder under the direction of the Enforcing Agencies.
- 1.6 The Contractor shall perform all services hereunder in accordance with the highest professional standards and in a manner consistent with the highest level of skill and care in the construction code industry. The Contractor represents and warrants that it has the capability, experience and materials required to perform the services contemplated by this Agreement and consistent with such standards.

FEB 0 8 2017

Bureau of Construction Codes

- 1.7 On a daily and monthly basis, the Contractor shall submit a report to the applicable enforcing Agency disclosing the results of inspections performed.
- 1.8 The contractor shall perform all inspections in accordance with the SCCA codes, applicable regulations and other applicable laws.
- 1.9 The Contractor shall not be held liable for inspections done prior to the effective date of this agreement.

2.0 COMPENSATION

- 2.1 For the duties specified in Section 1.0 Scope and Manner of Services the Contractor agrees to remit to the Municipality 10% of Building, Electrical, Mechanical and Permits collected on a monthly basis.
- 2.2 Contractor will bill the Township at a rate of \$40.00 for inspections done on Any permits issued prior to the date of this contract.

3.0 QUALIFICATIONS OF CONTRACTOR'S PERSONNEL.

- 3.1 The Contractor shall ensure that all its officers and employees possess at all Times the licenses, certifications and registrations required by applicable Federal and State laws, rules and regulations which are required to perform the services to be performed under this Agreement, including but not limited to the registration requirements in the Building Officials and Inspectors Registration Act (1986 PA54).
- 3.2 Any officer or employee of the Contractor whose license, certification or Registrations which are required to perform the services to be performed under this Agreement expires and is not renewed or is revoked, shall immediately upon the expiration or revocation thereof cease performing work under this agreement.
- 3.3 The Contractor shall provide the Township with Copies of the State of Michigan Registration Certification for Building, Electrical, Plumbing and Mechanical Inspectors.

4.0 TERMS OF AGREEMENT

- 4.1 Either party may terminate this Agreement by giving written notice at least Sixty (60) days in advance of the desired termination date. This notice requirement need not be complied with if the termination is due to default.
- 4.2 In case of a party's breach of this Agreement, the other party may terminate This agreement, effective on the date that written notice of default is delivered to the defaulting party.
- 4.3 Within thirty (30) days after termination of this Agreement, all fees and Charges due and owing by one party to the other shall be paid.
- 5.0 <u>MODIFICATION OF AGREEMENT</u>. Modifications, amendments or waivers of any provisions of this Agreement may be made only by the written mutual consent of the parties hereto.

6.0 <u>CERTIFICATION OF AUTHORITY TO SIGN AGREEMENT</u>. The persons Signing this Agreement on behalf of the parties hereto certify by their signatures that they are duly authorized to sign this Agreement on behalf of said parties and that this Agreement has been authorized by said parties.

MOORLAND TOWNSHIP BY: ITS: ATTESTED BY:/ ITS:

MICHIGAN TOWNSHIP SERVICES MUSKEGON, INC.

BY: · · · ITS: President

ATTESTED BY: ITS. Secretary/Treasurer



UCK SNYDER GOVERNOR	MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY BUREAU OF CONSTRUCTION CODES
	REGISTERED CODE OFFICIAL AND INSPECTOR
•	<u>CATEGORY</u> BUILDING OFFICIAL BUILDING INSPECTOR PLUMBING INSPECTOR PLAN REVIEWER
GREGORY T MASON RUITPORT MI 49415	
REGISTR	THIS DOCUMENT IS DULY ISSUED UNDER THE LAWS OF
CC-149 (Rev. 9/06) 0(1448)	09/16/18 THE STATE OF MICHIGAN
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CC-149 (Rov. 9/06) 00448(09/16/18 THE STATE OF MICHIGAN
3CC-149 (Rov. 9/06) 00448(1755-1755-1755)	09/16/18 THE STATE OF MICHIGAN

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RICK SNYDER Gentenor	MICHIGAN DEPARTMENT OF BUREAU OF CON	LICENSING AND RE STRUCTION CODES		
	REGISTERED CODE OFF	FICIAL AND INSPEC	TOR	
ROBERT F MODRESKE	• ·	CATEGORY	MECHANICAL INSPECTOR PLUMBING INSPECTOR PLAN REVIEWER	
REGISTRATION NO CONTRACTOR VIEW	EXPIRATION DATE 09-16-18		THIS DOCUMENT IS INTLY ISSUED UNDER THE LAWS OF THE STATE OF MICHIGAN	
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GÖVERNOR HAROLD J CALLENDER, J	MICHIGAN DEPARTMENT OF BUREAU OF CON REGISTERED CODE OF	STRUCTION CODES	GULATORY FOR MECHANICAL INSPECTOR PLUMBING INSPECTOR	
GOVERNOR HAROLD J CALLENDER, J WHITEHALL TWP MI 4946 REGISTRATION	MICHIGAN DEPARTMENT OF BUREAU OF CON REGISTERED CODE OF I il-	ISTRUCTION CODES	GULATORY FOR MECHANICAL INSPECTOR PLUMBING INSPECTOR PLAN REVIEWER THIS DOCUMENT IS DULY ISSUED UNDER THE LAWS OF THE STATE OF MICHIGAN	

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## **Moorland Township**

12416 East Apple Avenue P.O. Box 368 Ravenna, MI 49451

## MOORLAND TOWNSHIP ZONING BOARD OF APPEALS MEMBERS (Three year terms)

Tim Hendges

Ravenna, MI 49451 231-

**Rich Miller** 

231-

Ravenna, MI 49451 231-

Ravenna, MI 49451

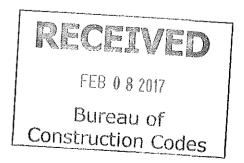
Rose Spoelman, Board Rep.

Term expires: 12/31/2017

12/31/2018

12/31/2019

Zoning Administrator: Michigan Township Services 384 N. Third Street, Suite E Fruitport, MI 49415 231 865-3310

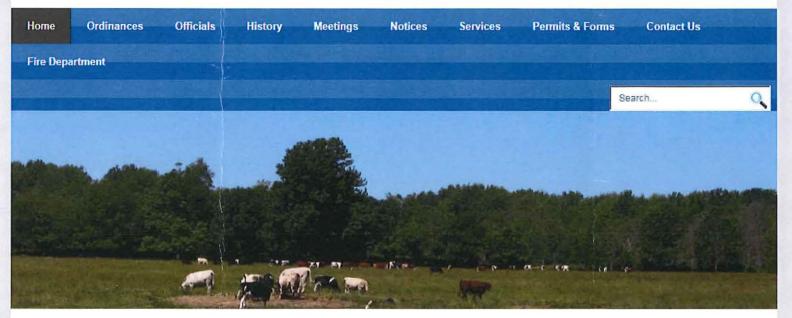


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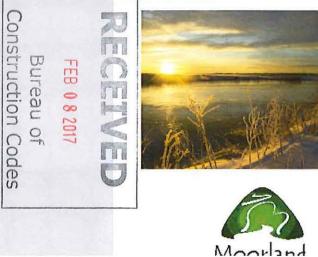
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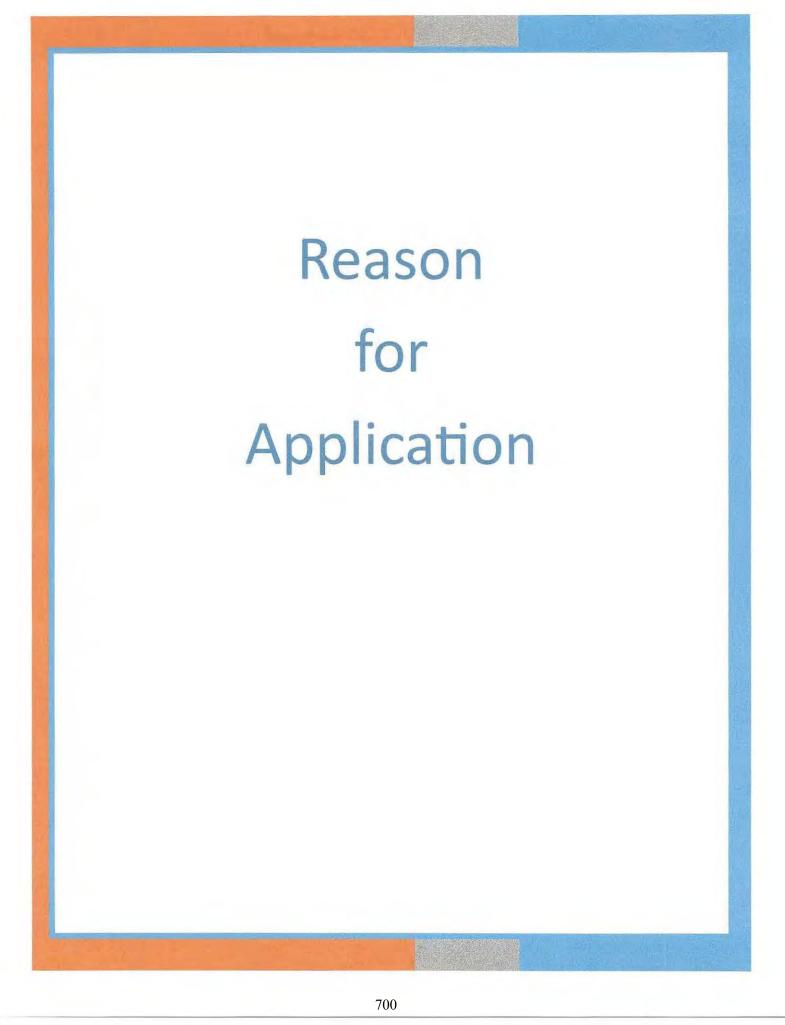
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You are here : Home



Please consider the following information as supplemental data to the following applications that have been submitted to your agency for your review.

Village of Centreville, St. Joseph, County Village of Colon, St. Joseph, County Fawn River Township, St. Joseph, County Village of White Pigeon, St. Joseph County Village of Marcellus, Cass County Volinia Township, Cass County



The following municipalities are desiring to assume the administration and enforcement of all disciplines in an effort to provide customer serviced based inspections using trade officials that live in the communities and are familiar with those communities. Communications and processes between local jurisdictions and the bureau of construction codes office appear to be very ineffective.

A couple of years ago which was cause for Mottville Township to obtain such a great desire to administer and enforce its codes was due to the fact that a large project was placed at a standstill due to an inspector being off due to an injury. The bureau was not able to provide an inspector, but was quick to deny the local jurisdiction the opportunity to obtain a local Inspector to finish the inspections citing that Mottville did not have its own reference standards.

None of the local jurisdictions were ever notified of this issue so that the local municipalities could be prepared to answer questions of it's residents. We have had situations where the bureau has lost inspectors due to retirements, no notifications by the bureau of such event occurred, and the response from the bureau was for the local jurisdiction to check the website. As we currently address this issue, we have a very highly respected inspector off on medical leave, and again the bureau never notified anyone of this situation. I was not until one of the residents notified the municipality that we became aware of the issue. It becomes very difficult to answer to the residents, when we as local municipalities

don't have the answers.

Just in the past several months we have observed very inconsistent policies and procedures regarding the administration and enforcement of the codes. When we first embarked to transfer the administration and enforcement of the officials in Mottville Township, we were basically informed that this would be a steep hill to climb due to requirement to have all of the code books, which was then later reduced to the essential standards. As Mottville went through the paces, and constructed an inter-governmental code Library which has been enjoined by several other municipalities, passed a resolution and completed all of the documents Mottville submitted its application to the bureau.

Before we were notified by the bureau that Mottville Township had been approved, residents were being told by the bureau that they no longer were responsible for that area. When Mottville contacted the bureau, they were advised that due to the fact that Mottville passed the resolution, that they should have been doing the inspections the day the resolution was effective, but yet no authorization had been granted. Now in February 2017 the bureau has changed the application, and is now requiring local officials to attend meetings in Lansing to answer questions during this interim period of change.

Interim Period? Such comment would lend one to believe that yet more changes are yet to come, but when questioned, the bureau does not seem to have or willing to share any ideas as to what might be being considered.

In this packet, documentation has been provided from six jurisdictions requesting to administer and enforce their codes. Four of the applications were submitted at a later date, and it is now being indicated that these may not be considered in the April 2017 meeting, and may not be on an agenda until July 2017. This seems to be unacceptable timeframe to respond to such a request, and then may fall under yet more policy and procedural changes.

706

In closing probably one of the most disturbing issues amongst all is recently the bureau issued a building permit for a commercial building in the Village of White Pigeon. This permit was issued without any local zoning approval. In an effort to backfill and create a file as we understand that recordkeeping is a critical portion of the operation, and understanding from past requests that the only method to obtain such records through the bureau even though it is for the jurisdiction is through a Freedom of Information Act Request. It was quite disturbing to find that the bureau admits to not having local zoning authority, and then denies a portion of the request for copies of the plan review stating that it was exempt from such request.

I think it would safe to presume that if the shoe was on the other foot, such practices would not be acceptable.

Therefore, with that we ask that each of the municipalities that are referenced in this document be released from the bureau's jurisdiction at its April 2017 meeting in an effort for the local municipalities may provide prompt professional services to its residents that they deserve.



Douglas Kuhlman <municipalzoning@gmail.com>

## FOIA No.: 2017-02016 Response

2 messages

LARAFOIAInfo <LARAFOIAInfo@michigan.gov> To: Douglas Kuhlman <municipalzoning@gmail.com> Fri, Feb 3, 2017 at 11:20 AM

Dear Mr. Kuhlman:

The Michigan Department of Licensing and Regulatory Affairs (LARA) has received your request for public records and has processed it under the provisions of the Michigan Freedom of Information Act (FOIA), 1976 PA 442, MCL 15.231 *et seq.* Because of the nature of your request it was sent to the Bureau of Construction Codes (BCC) to search for any non-exempt records that may be responsive to your request.

Your request has been granted in part and denied in part. Portions of your request are exempt from disclosure based on provisions set forth in the Act. Please see comments below.

#### Comments:

As to the partial grant, non-exempt documents responsive to your request are attached. Additionally, please note that BCC Licenses, Permits, Plan Review, Complaints, and Fire Services information can also be found online at: https://aca3.accela.com/lara/.

As to the partial denial, some records are specifically described exempt from disclosure by another agency statute (MCL 15.243(1)(d)). <u>Statute(s)</u>: Copyright Act of 1976. The file contained copies of copyrighted code material, including architectural works.

Also, BCC has no authority for zoning in the requested location.

If you have questions concerning this matter, please feel free to contact the LARA FOIA Office at LARAFOIAInfo@michigan.gov. To review a copy of LARA's written public summary, procedures, and guidelines, go to www.michigan.gov/lara.

As to the denial of your request, under section 10 of the FOIA, MCL 15.240, LARA is obligated to inform you that you may do the following:

1) Appeal this decision in writing to Director Shelly Edgerton, Department of Licensing and Regulatory Affairs, P.O. Box 30004, Lansing, MI 48909. The writing must specifically state the word "appeal" and must identify the reason or reasons you believe the denial [partial denial] should be reversed. The head of the Department or her designee must respond to your appeal within 10 business days of its receipt. Under unusual circumstances, the time for response to your appeal may be extended by 10 business days.

#### 3/24/2017

#### Gmail - FOIA No.: 2017-02016 Response

2) Commence an action in the Court of Claims within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Sincerely,

LARA FOIA Office

cf

From: Douglas Kuhlman [mailto:municipalzoning@gmail.com] Sent: Tuesday, January 31, 2017 3:45 PM To: LARAFOIAInfo <LARAFOIAInfo@michigan.gov> Subject: Fwd: FIOA Request

------ Forwarded message ------From: **Douglas Kuhlman** <municipalzoning@gmail.com> Date: Wed, Jan 25, 2017 at 12:37 PM Subject: FIOA Request To: larafioainfo@michigan.gov

Please accept the following attached document as a FIOA request. If you have any questions, feel free to contact my office.

Douglas M. Kuhlman

Zoning Administrator & Code Compliance Officer

NEW CONTACT INFORMATION

65656 Burg Rd Sturgis, Mi. 49091

Tel: (269)-651-3130 Fax: (269)-651-3131 Email: municipalzoning@gmail.com

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-

Douglas M. Kuhlman

Zoning Administrator & Code Compliance Officer

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Tel: (269)-651-3130 Fax: (269)-651-3131 Email: municipalzoning@gmail.com

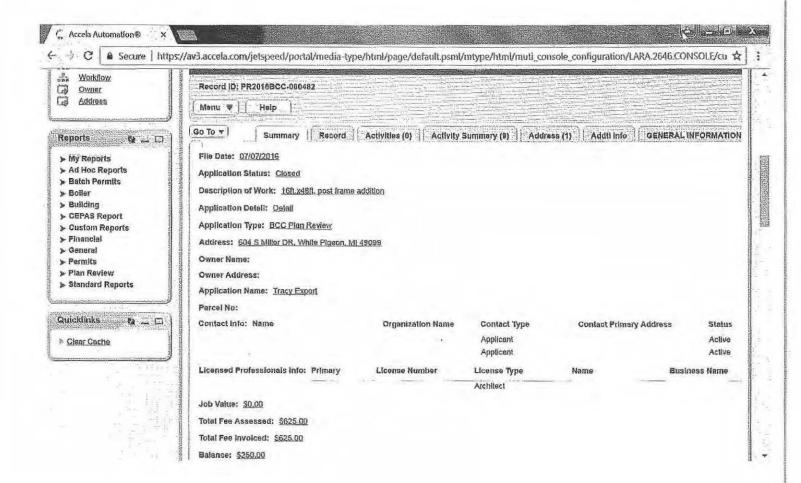
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Tracy Exports FOIA 2017-02016.pdf 213K

Douglas Kuhlman <municipalzoning@gmail.com> To: LARAFOIAInfo <LARAFOIAInfo@michigan.gov> Fri, Feb 3, 2017 at 11:47 AM

I guess that I am somewhat confused that the Village of White Pigeon designates the State of Michigan as their building official for the Village, but when there is need for documentation of a project that took place in the Village, we would be told that some information pertaining to the project would not be released merely because you are a different agency. I will provide this information to the Village Council and see how that would like to handle this issue.

Thank you for your time



Custom Fields:	Plan Review Information Facility Type General				
100000	New Building	Addition	Alteration	Repair	
Stewards	Q	768	-	-	
	Building Use <u>U. Utility (Miscellaneous)</u>	Construction Type 2B - Non Combustible (Non-Rated Structural Elements)	Number of Occupants <u>6</u>	Area/Floor 2208	
	Sprinkler System	Sprinkler System Limited Area Description			
	None	-			
	Government Project Cost Less than \$15,000				
	No				
	Addendum Number		Orginal BCC Project Nu	mber	
	-		-		
		Architect Project Number			
	Manual Fee Assessment 0				
	GENERAL INFORMATION				
	Project Type	Preliminary Review		Estimated Capital E	
	Addition	E		23250	
	PLAN REVIEW REQUEST I				
	Building	Electrical J		Mechanical	
	Plumbing	3 Barrier Free		1 Footing/Foundati	
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and a second sec	Fire Sprinkler	Energy		Sita	
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a constants	PREMANUFACTURED SPECIFIC INFO Primary Manufacturer Name	C.A. Number	2nd Manufacture
	2nd Manufacturer C.A. Number	- 3rd Manufacturer Name	3rd Manufactures
		Model Number Name and Size	- Previous BSAR N
100000000000000000000000000000000000000	Type of Unit	Roof Live / Snow Load	Roof Dead Load
	Floor Live Load	- Floor Dead Load	Ground Snow Lo
	Wind Speed	Heating Degree Days	- Access Panel Lo
	Building Code	Electrical Code	- Mechanical Code
	Plumbing Code	Limitations of Approval (if any)	-
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	Other than 182 Family Dwelling New Model (One Foundation System) -	Additional Manufacturer(s) Submittal (not primary/a _	ommercial)
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		- Additional Manufacturer(s) Submittal (not primary)	Foundation (
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	PLANS AND SPECS					
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	RECORD CENTER					
	Document Type Lot No. Box R	ecord Center No. (Number	) Itemized Date Sent			
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	Plan Route Electrical Review		Routed for E	08/05/2016	Jonathan Marihugh	
	Plumbing Review					
	Mechanical Review					
	Pub School Sile Review					
	Footing/Foundation Review					
	Building Review	James Greene	Approved Approved	08/05/2016 08/05/2016	James Greene Jonathan Marihugh	
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2			Status	Apply Date	Severity	Acti
Condition Statu	s: Name	Short Comments	Status		and the second	
Condition Statu Application Con	Sector i income			Date		

Registration of Governmental Sub-division The following information should apply to the following municipalities that have made application to administer and enforce all of the various codes.

Village of Centreville, St. Joseph, County Village of Colon, St. Joseph, County Fawn River Township, St. Joseph, County Village of White Pigeon, St. Joseph County Village of Marcellus, Cass County Volinia Township, Cass County Communication process with enforcing agencies Each of the trade officials are very transparent in the communities that they serve. Contact numbers are provided on each municipalities website, the Zoning– Building Permit Application, and can usually be found on a bulletin board at each of the municipalities, or by contacting one of the municipalities officials..



An intergovernmental Construction Board of Appeals has been created and is shared by all of the municipalities.

## Township of Volinia Cass County

Procedures for the Construction Board of Appeals

- 1. Appeals must be in writing to the Board Chair. If an appeal is addressed to the Village President, it shall promptly be referred to the Chair of the Appeals Board. A separate file is to be maintained for each appeal.
- 2. A hearing is scheduled as soon as possible, but not more than 25 days following receipt of an appeal. Notice is given to all interested parties by first class mail with 10 days notice before the hearing.
- 3. Appeals are heard by a quorum of the Construction Board of Appeals.
- 4. The final decision of the Board is reduced to writing and sent to the applicant within 5 days after Board decision is reached.
- 5. Records of the appeal and its disposition are maintained on file in the Building Inspection Department of the Township of Volinia.

#### APPOINTMENTS TO CONSTRUCTION BOARD OF APPEALS

SPECIFIC ACTION REQUESTED: Authorize Supervisor to make appointments to the Construction Board of Appeals

#### DESCRIPTION OF ISSUE:

The Township is the administering and enforcing agency for the State Construction Code. MCL 125.1514 requires an administering and enforcing agency to appoint a "Construction Board of Appeals" for the purposes of hearing and deciding appeals on questions of the State Construction Code, such as the refusal to grant a permit or the denial of a permit.

The Construction Board of Appeals must consist of a minimum of 3 persons, qualified by experience or training to perform the duties of a member of the Board of Appeals. In this respect, it is incumbent upon the Township to appoint individuals that have training in one or more of the Building Trades; or that have municipal building code experience, or both. Employees of the Township cannot serve on the Township Construction Board of Appeals.

MCL 125.1514 provides that the Supervisor shall appoint the members of the Construction Board of Appeals. The members serve for 2-year terms.

We recommend that the Township Supervisor appoint the following individuals to the Township Construction Board of Appeals with two year terms commencing on (date) , all of whom have agreed to be named and are willing

to serve:

Butch Bender – Electrical Contractor

Cassopolis, MI 49301

Rich Wheat – Electrical Contractor Three Rivers, MI 49093

Greg Persing – Mechanical and Plumbing Contractor Road Burr Oak, MI LICENSE#8110541

David Nelson – Mechanical and Plumbing Contractor Sturgis, MI 49091 LICENSE#8002752

Fred Mazzoni – Building Contractor Sturgis, MI 49091 LICENSE#2101132671 (exp 5/31/17)

#### Doug Hopkins – Building Contractor

62969 Fair Road Sturgis, MI 49091 phone 269-508-4260

Proposed Motion:

"I move that the Township appoint Butch Bender, Rich Wheat, Greg Persing, David Nelson, Fred Mazzoni and Doug Hopkins to the Construction Board of Appeals effective (date)_______, that the Construction Board of Appeals meet only as needed upon application, a fee of \$500 will be charged to the applicant and that each Construction Board of Appeals member be compensated \$100 plus mileage at the current IRS rates for those meetings each appointee attends".

Support by:

All in favor:

# Administrative personnel and service provided F.O.I.A.

All Freedom of Information Act requests are handled by the Freedom of Information Act Coordinator for each of the municipalities.

All forms, retention schedule and location of official records are in adherence with the Freedom of Information Act , Act 442 of 1976, and are maintained at each of the municipalities.

Processes for establishing fees and variance code process.

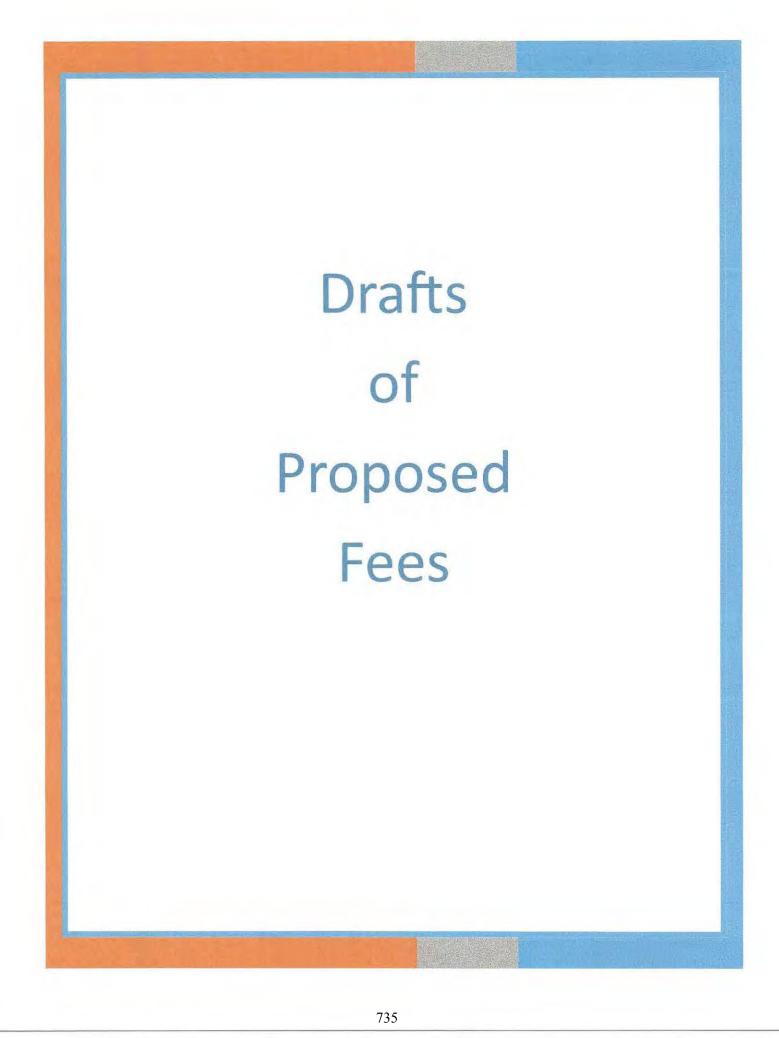
All fees and variance s of code process are modeled from the State of Michigan, and consideration regarding local cost of operations is also considered.

Agency personnel are provide as necessary Each municipality provides administrative support to all of the trade officials, and each of the trade official have assigned officials as back up support in the case of their absence. Plan reviews and field inspections

## All plan reviews are conducted on a timely basis.

All inspections are usually conducted within 24-48 hours from the time of the request under normal circumstances. Proposed Program Budget Each of the trade officials work on a fee based inspection service therefore not having the requirement for any type of budget.

In addition, each of the trade officials contribute 10% of their inspection fees to the municipalities for administrative costs.



## **RESIDENTIAL BUILDING PERMIT FEE SCHEDULE**

	BASE FEE FOR NEW HOMES AND ADDITIONS (LIVING SPACE)			
1	FIRST 1000 SQ. FT.	\$190.00		
2	OVER 1000 SQ. FT.	\$0.19	SQ FT	
3	BASEMENT, CRAWL SPACE, ATTACHED GARAGE, DECKS AND 3			
	SEASON ROOMS	\$0.08	SQ FT	<u></u>
	REMODEL PERMIT BASE FEE (2 INSPECTIONS)			
1	BASE FEE	\$120.00		
2	PER SQ. FT. OF REMODEL	\$0.16	SQ FT	
	DECK PERMIT BASE FEE			
1	DECKS WITHIN 30" FROM GRADE	\$80.00		
2	DECKS OVER 30" OR COVERED DECKS WITH PANNING OR SOFFIT	\$120.00		
3	ENCLOSED DECKS OR 3 SEASON ROOMS	\$190.00		
4	OVER 1000 SQ. FT.	\$0.08	SQ FT	
	MODULAR AND MOBILE HOME BASE FEE			
1	HOMES WITH PILLARS OR SLABS-FIRST 1000 SQ.FT.	\$120.00		
2	HOMES WITH BASEMENT AND CRAWL SPACE-FIRST 1000 SQ.FT.	\$190.00		
3	OVER 1000 SQ.FT.	\$0.16	SQ FT	
4	BASEMENT, CRAWL SPACE, ATTACHED GARAGE, DECKS AND 3			
	SEASON ROOMS	\$0.08	SQ FT	
	ACCESSORY BUILDING			
1	FIRST 1000 SQ. FT.	\$190.00		
2	OVER 1000 SQ. FT.	\$0.16	SQ FT	
	MISCELLANEOUS			
1	SHEDS 200 TO 400 SQ. FT.	\$60.00		
2	POOLS IN GROUND, ABOVE GROUND OR 2' DEEP	\$90.00		
3	RESIDENTIAL DEMOLITION PERMIT	\$75.00		<u></u>
4	TOWER PERMITS	\$250.00		
5	RE-ROOF OVERLAY	\$40.00		
6	RE-ROOF TEAR OFF	\$80.00		
7	SIDING OR WINDOW AND DOOR REPLACEMENT	\$40.00		
8	PLAN REVIEW FEE TO 2500 SQ. FT.	\$50.00		
9	OVER 2500 SQ. FT. \$50.00/HOUR	\$100.00	MIN	
	ADDITIONAL INSPECTIONS	\$50.00		
	RED TAG FEE	\$50.00		
12	ZONING	\$50.00		
		TOTAL		

#### ELECTRICAL PERMIT APPLICATION - Page 2

#### VII. FEE CLARIFICATIONS

ITEM #17, MOBILE HOME SITE:

When installing a site service in a park, the permit application must include the application & inspection fee, service, plus the number of park sites. When installing a HUD mobile home in a park, a permit must include the application & inspection fee and a feeder. This shall be done by a licensed electrical contractor.

When installing a HUD mobile home or a pre-manufactured home on private property, a permit must include the application & inspection fee, service and feeder.

VIII. FEE CHART- Enter the number of items being installed; multiply by the unit price for total fee.

	ITEM DESCRIPTION	FEE	# OF ITEMS	TOTAL		ITEM DESCRIPTION	FEE	# OF ITEMS	TOTAL
1.	Application Fee	75.00	1	\$75.00	17.	Mobile Home Park Site	6.00		
2.	Service: Through 200 Amp	10.00			18,	Recreational Vehicle Park Site	4.00		
3.	Over 200 Amp thru 600 Amp	15.00			19.	Energy Retrofit - Temp. Control	45.00		
4.	Over 600 Amp thru 800 Amp	20.00			20,	K.V.A & H.P. Units up to 20 K.V.A. or H.P.	6.00		
5.	Over 800 Amp thru 1200 Amp	25.00			21.	Units 21 to 50 K.V.A. or H.P.	10.00		
6.	Over 1200 Amp (GFI only)	50.00			22.	Units 51 K.V.A. or H.P and over	12.00		
7.	Circuits	5.00			23.	Fire Alarms – up to 10 devices(not residential smoke detectors)	50.00		
8.	Lighting Fixtures - per 25	6.00			24.	11 to 20 devices	100.00		-
9.	Dishwasher, range hood, disposal (each)	5.00			25.	over 20 devices (each)	5.00		
10	Fumace	5.00			26.	Data/Telecom/TV Outlets 1 to 19 devices	5.00 ea.		
11	Electrical Heating Units (baseboard)	4.00			27.	20 to 300 devices	100.00		
12	Power Outlets (ranges, dryers, etc)	7.00			28.	Over 300 devices	300.00		
13	Signs: Unit	10.00			29.	Conduit only, or Grounding only	45.00		
14	Letter	15.00			30.	Inspection Fee	75.00	1	\$75.00
15	Neon – each 25 feet	20.00			31,	Additional Inspection Fee	50.00		
16	Feeders-Bus Ducts, etc. per 50'	\$6.00			32	Certification Fee	10.00		
							Total	Fees:	
	6 E	Ron Bella 6751 Co dwardsl Phone: 2	nrad Rd burg, MI	49112		Make check pa to: Fabius Tow			

#### IX. INSTRUCTIONS FOR COMPLETING APPLICATION

GENERAL: Electrical work shall not be started until the application for permit has been filed. All installations shall be in conformance with the MI Electrical Code. No work shall be concealed until it has been inspected. When ready for an inspection, call the Electrical Inspector, providing as much advance notice, as possible. The Inspector will need the job location, type of inspection and permit number.

EXPIRATION OF PERMIT: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or it the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. A PERMIT WILL BE CANCELED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELED PERMITS CANNOT BE REFUNDED OR REINSTATED.

The Department will not discriminate against any individual or group because of race, sex, religion, age, national origin, marital status, handicap or political beliefs. <u>Please note that inspection fee may be waived on certain type of work, namely temporary's, sewage pumps and services that may only require 1 inspection.</u> Please call me before you complete form.

X. UTILITY SERVICE ORDER NUMBER	
If this application includes work involving service equipment, include the	
serving utility work order number here.	

VIII. Fee Chart - Enter the number of items being installed, multiply by the unit price for total fee.

	FEE	# ITEMS	TOTAL
1. Application Fee (non-refundable)	\$75.00	1	\$ 75.00
<ol> <li>Residential Heating System (include duct &amp; pipe)</li> <li>New Building Only</li> </ol>	\$50.00		
<ol> <li>Gas/Oil Burning Equipment (furnace) New and/or Conversion Units</li> </ol>	\$30.00		
4. Residential Boiler	\$30.00		1
5. Water Heater	\$5.00		
6. Flue/Vent Damper	\$5.00		
7. Solid Fuel Equip. (includes chimney)	\$30.00	1	1.11
37. Gas Burning Fireplace	\$30.00		
<ol> <li>Chimney, Factory built (installed separately)</li> </ol>	\$25.00		
<ol> <li>Solar; set of 3 panels (includes piping)</li> </ol>	\$20.00		
<ol> <li>Gas Piping; each opening – new installation (residential)</li> </ol>	\$5.00		
<ol> <li>Air Conditioning (includes split systems)</li> </ol>	\$30.00		
12. Heat Pumps (complete residential)	\$30.00		
13. Bath & Kitchen exhaust	\$5.00	· · · · · ·	
Tanks 14, Aboveground	\$20.00		
38. Aboveground Connection	\$20.00		
15. Underground	\$25.00		
39. Underground Connection	\$25.00		
16. Humidifiers	\$10.00		
Piping Systems – minimum \$25.00 17. Piping	\$.05 / ft.		
40. Process piping	\$.05 / ft.		

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	FEE	# ITEMS	TOTAL
18. Duct – minimum \$25.00	\$.10 / ft.		
19. Heat Pumps; Commercial (pipe not included)	\$20.00		
Air Handlers/Heat Wheels 20. Under 10,000 CFM	\$20.00		
21. Over 10,000 CFM	\$60.00		
22. Commercial Hoods	\$15.00	1	
23. Heat Recovery Units	\$10.00		
24. V.A.V. Boxes	\$10.00		
25. Unit Ventilators	\$10.00		
26. Unit Heaters (terminal units)	\$15.00		
27. Fire Suppression/Protection – minimum \$20.00	\$.75 per head		
28. Evaporator Coils	\$30.00		
29. Refrigeration (split system)	\$30.00		
30. Chiller	\$30.00		
31. Cooling Towers	\$30.00		
32. Compressor	\$30.00	1	
Inspections 33. Special/Safety Insp. (includes cert. fee)	\$75.00		
34. Additional Inspection	\$75.00		
35. Final Inspection	\$75.00	1.1	\$ 75.00
36. Certification Fee	\$30.00		

Total Fee (Must include the \$75.00 non-refundable application fee)

See VII. Fee Clarification, Item #2 on front

See VII. Fee Clarification, Item #4 on front

See VII. Fee Clarification, Items #14 and 15 on front

#### IX. Instructions for Completing Application

General: Mechanical work shall not be started until the application for permit has been filed with the Bureau of Construction Codes & Fire Safety. All installations shall be in conformance with the Michigan Mechanical Code. No work shall be concealed until it has been inspected. The telephone number for the inspector will be provided on the permit form. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the job location and permit number.

Expiration of Permit: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. A PERMIT WILL BE CLOSED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CLOSED PERMITS CANNOT BE REFUNDED OR REINSTATED.

Where to Submit Application: The Bureau of Construction Codes & Fire Safety is responsible for code enforcement in units of government throughout the state which have no local program and for all state owned buildings. Permit applications for state issued permits should be sent to the address listed on the front of this application. If you are not sure whether a state permit or a local permit is appropriate, contact our office or your local building inspector. Questions regarding state issued permits may be directed to the Office of Management Services, Permit Section at 517-241-9313. Code questions may be directed to the Mechanical Division at 517-241-9325.

The Department of Labor & Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

Make Checks Payable to: FABIUS TOWNSHIP

Mail to: John Dobberteen 400 S Monroe Sturgis, MI 49091

VIIb. Fee Clarification	(continued)

Water Closets	Sink (any description)	Slop Sink	Drinking Fountain	Floor Drain	Water Outlet or Connection to any Make-up Water Tan
Bathtub	Emergency Eye Wash	Bidet	Condensate Drain	Roof Drain	Water Outlet or Connection to Heating System
Lavatories	Emergency Shower	Cuspidor	Washing Machine	Grease Trap	Water Outlet or Connection to Filters
Shower Stall	Garbage Grinder	Dishwasher	Acid Waste Drain	Starch Trap	Connection to Sprinkler System (Irrigation)
Laundry Tray	Water Outlet Cooler	Refrigerator	Embalming Table	Plaster Trap	Water Connected Sterilizer
Urinal	Ice Making Machine	Water Heater	Bed Pan Washer	Water Softener	Water Connected Dental Chair
Autopsy	Water Connected Still			Water Connectio	on to Carbonated Beverage Dispensers

Item #25, Domestic Water Treatment And Filtering Equipment: A license is not required for the installation of domestic water treatment and filtering equipment that requires modification to an existing cold water distribution supply and associated water piping in buildings if a permit is secured, required inspections performed, and the installation complies with the applicable code. If the enforcing agency determines a violation exists, it shall be corrected by the responsible installer. The permit application shall include the application fee, the number of water treatment devices recorded in item #25 for #5.00 each, and the appropriate water distribution pipe (system) size fee.

VIII. Fee Chart – Enter the number of items being installed, multiply by the unit price for total fee.

	FEE	# ITEMS	TOTAL
1. Application Fee (non-refundable)	\$75.00	1	\$ 75.00
2. Mobile Home Park Site	\$5.00 each		
<ol> <li>Fixtures, floor drains, special drains, water connected appliances</li> </ol>	\$5.00 each		
4. Stacks (soil, waste, vent and conductor)	\$3.00 each		1
5. Sewage ejectors, sumps	\$5.00 each		
6. Sub-soil drains	\$5.00 each		14
Water Service 7. Less than 2"	\$5.00		
8. 2" to 6"	\$25.00		
9. Over 6"	\$50.00		
10. Connection (bldg. drain – bldg. sewers)	\$5.00		
Sewers (sanitary, storm, or combined) 11. Less than 6"	\$5.00		
12. 6" & Over	\$25.00		
13. Manholes, Catch Basins	\$5.00 each		- T

	FEE	# ITEMS	TOTAL
Watering Distributing Pipe (system) 14. 3/4" Water Distribution Pipe	\$5.00		
15. 1" Water Distribution Pipe	\$10.00		
16. 1-1/4" Water Distribution Pipe	\$15.00		
17. 1-1/2" Water Distribution Pipe	\$20.00		
18.2" Water Distribution Pipe	\$25.00		
19. Over 2" Water Distribution Pipe	\$30.00		
20. Reduced pressure zone back-flow preventer	\$5.00 each		
25. Domestic water treatment and filtering equipment <b>only</b>	\$5.00		
26. Medical Gas System	\$45.00	1	
Inspections 21. Special/Safety Insp. (includes cert. fee)	\$75.00		
22. Additional Inspection	\$75.00		
23. Final Inspection	\$75.00	in the	\$ 75.00
24. Certification Fee	\$30.00		

Total Fee (Must include the \$75.00 non-refundable application fee)

See VIIa. Fee Clarification, Item #2 on front See VIIb. Fee Clarification. Item #25 above

#### IX. Instructions for Completing Application

General: Plumbing work shall not be started until the application for permit has been filed with the Bureau of Construction Codes & Fire Safety. All installations shall be in conformance with the Michigan Plumbing Code. No work shall be concealed until it has been inspected. The telephone number for the inspector will be provided on the permit form. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the job location and permit number.

Expiration of Permit: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after issuance of the permit or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. A PERMIT WILL BE CLOSED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CLOSED PERMITS CANNOT BE REFUNDED OR REINSTATED.

Where to Submit Application: The Bureau of Construction Codes & Fire Safety is responsible for code enforcement in units of government throughout the state which have no local program and for all state owned buildings. Permit applications for state issued permits should be sent to the address on the front of this application. If you are not sure whether a state permit or a local permit is appropriate, contact our office or your local building inspector. Questions regarding state issued permits may be directed to the

Office of Management Services, Permit Section at 517-241-9313. Code questions may be directed to the Plumbing Division at 517-241-9330.

The Department of Labor & Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency. BCCFS-327 (Rev. 3/06) Back

#### Make Checks Payable to: **FABIUS TOWNSHIP**

Mail to: John Dobberteen 400 S Monroe Sturgis, MI 49091 Proposed Public Facing Documents The following are the majority of the documents that are used on a daily basis for each of the officials.

It should be noted that the building official uses a joint application with the zoning administrator that meets all of the requirements of the building permit application, but reduces the number of applications required to the customer, and reduces conflicting information

Colon

## Colon Village Michigan

**Zoning Administration Office** 

**Zoning Application** 

Douglas M. Kuhiman Zoning Administrator 65656 Burg Rd Sturgis, Mi. 49091 Telephone: (269)-651-3130 Fax: (269)-651-3131 municipalzoning@gmail.com

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### **INSTRUCTIONS FOR COMPLETING ZONING/BUILDING APPLICATION**

The following information must accompany each copy of this application form. Each supporting document <u>must</u> include the name and address of the applicant.

#### ** IMPORTANT INFORMATION **

Incomplete applications will not be processed. Incomplete applications would include but not limited to drawings, measurements on both the application and drawings, property owner's signature, cross sections of structure, energy code requirements, property owners signatures and application fees.

It is highly recommended that you plan for your project well in advance. Other applications, or additional review time regarding your application may delay your anticipated start date of your project. Commencement of your project may not start until you have received your permits.

You must know where your property lines are located. Assumptions and adjacent property owner agreements are not acceptable. If accurate property lines cannot be established, a survey must be completed. If there is a question as to any of the property lines, the Zoning Administrator and/or the building official may request a survey to verify property lines prior to processing an application.

There are many areas in the county that have what is known as plat or platted sub-divisions. Platted areas sometimes have deed restrictions associated with that area or lot. The municipality is not obligated to confirm the presence of any such regulations, and is not obligated nor has any authority to enforce such regulations.

- A. <u>All appropriate fees</u> must be included with the Zoning Application. The building official will advise you of the building permit fees at the time of issuance of such permit.
- B. <u>Proof of Property Ownership/Interest/Other Party Information</u>: Proof of ownership of the property such as a warranty deed, land contract or other evidence of interest in the property, and the names, addresses, phone numbers of all other persons or entities having legal or equitable interest in the property including written authorization by the landowner for a person to act on behalf of the landowner (if applicable). If property is under land contract, the deed holder will be required to sign such application.
- C. Legal Description: A legal description of the property.
- D. <u>Potable Water/Sewage Disposal Approval</u>: Well and septic permits obtained from the St. Joseph County Health Department, 269-273-2161. NOTE: All building permit applications will require a change of use of existing sewage permit or septic system construction permit with the exception of free standing outbuildings on skids or decks, per the St. Joseph County Environmental Health Code. (Sewer Permit in sewer district obtained from plumbing inspector or appropriate sewer authority)

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- E. <u>Driveway Permit</u>: Permits/evidence demonstrating Road Commission approval for driveway location (if new proposed driveway along a public road). St. Joseph County Road Commission (269)-467-6393.
- F. <u>Deed Restrictions</u>: Copy of any deed restrictions on the property. St. Joseph County Register of Deeds Office (269)-467-5500.
- G. <u>Project Plan</u>: Drawings of proposed project. This plan <u>must</u> include dimensions of all structures and dimensions from structures to other structures and property lines, and square footage of the proposed project. The grid on page 4 may be used, or other sets of plans may be submitted.
- H. <u>Flood Hazard Zone</u>: If any portion of your parcel in located in a F.E.M.A. Flood Hazard Zone, proper clearance authorization must first be approved by the authorizing agency. <u>Michigan</u> <u>Department of Environmental Quality (269)-567-3564</u>.
- <u>Address</u> assigned and posted on the parcel in accordance to the St. Joseph County Address Ordinance. A copy of the rural identification card from the St. Joseph County Land Resource Centre <u>must</u> be included with the application. St. Joseph County Land Resource Centre (269)-467-5576.
- J. <u>Soil Erosion Permit:</u> A soil erosion permit for <u>all</u> projects located with 500 feet of a lake, river, stream, watercourse or wetland must be obtained and submitted as part of the application. St. Joseph County Drain Commissioner (269)-467-5600.
- K. <u>Building Plans</u>: Two sets of building plans must be submitted. If submitting electronically, and original set must also be mailed. Such plans must include the following drawings:
  - ✓ Foundation.
  - ✓ All elevations. (Side view)
  - ✓ Floor plan.
  - ✓ Cross Section of on wall from foot to peak.
  - ✓ Truss diagrams as required.
  - ✓ For new construction, a Michigan Uniform Energy code approved plan is required.
- L. Energy Code Calculations: State law requires a minimum level of energy efficiency.
- M. <u>Plan review</u>: For electrical, plumbing and mechanical, required in all commercial and in residential over 3500 Sq. Ft. In addition Fire code required for all but single family single unit residential.
- N. Multi- Family Use or Business: Use must be inspected by the fire chief.
- O. <u>Electrical, Mechanical, Plumbing, Sewer, Soil Erosion and all other application must be</u> submitted to the respective department for approval.
- P. <u>Zoning and Building Permits:</u> Zoning Permits are valid for 12 months after issuance. Building Permits are valid for 6 months. An extension may be granted by the building inspector with a written request and a justifiable cause. (To be determined by the building inspector)

- Q. <u>Utilities, Easements and Deed Restrictions:</u> The municipality and/or anyone acting on behalf of the municipality will not be responsible for the location of any power lines, gas lines, sewer lines, water lines or any other essential service provided. In addition the municipality and/or anyone acting on behalf of the municipality will not be responsible for the verification and/or location of any utility easements, property easements or deed restrictions. Almost all utility providers along with other service providers have clearance areas from their lines or equipment.
- R. Inspection Types: The following inspections are required:

BUILDING	ELECTRICAL	MECHANICAL, PLUMBING AND SEWER
Foundation	Expired	Expired
Back fill	Rejected	Rejected
Radon	Final	Final
Rough Frame		
Insulation		
Other		
Final		

- S. Inspections: All inspections require a minimum of a 24 hour notice.
- T. Copies: Please do not submit 2 sided copies.

#### IMPORTANT INFORMATION

#### Please be aware of the following State Law:

Structures (such as houses, barns, and sheds) may not be burned for the purpose of demolition. Air quality regulations allow structures to be intentionally burned for the purpose of fire department training ONLY. However, there are specific guidelines developed by the National Fire Protection Association (NFPA) that fire departments must follow when conducting a training exercise. A guidance document for fire departments conducting fire suppression training can be found on the DEQ's Open Burning web site www.michigan.gov/deq (click on "Air" then "Open Burning Information").

Construction and Demolition Waste Construction and demolition (C & D) waste is waste building material, packaging, and rubble that results from construction, remodeling, repair, and demolition operations on houses, commercial or industrial buildings, and other structures. C & D waste may be generated at many sources including households, commercial establishments, and industrial facilities. The open burning of any C & D waste is prohibited, even if the burning is to be conducted on the person's own property. A person may NOT take C & D waste to another location (such as a household) to be burned. C & D waste should be reused, recycled, or disposed of in a landfill that accepts C & D waste (see the "Open Burning Alternatives" section of this guide)

It is also prohibited to bury such materials on a property. Materials must be disposed of in a licensed landfill qualified to handle

such waste.

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#### THE FOLLOWING INSTRUCTIONS ARE FOR NON-RESIDENTIAL PROJECTS ONLY

SUPPORTING DOCUMENTS: The following must accompany each copy of this application form. Each supporting document must include the name and address of the applicant.

- <u>Narrative Description</u>: A detailed narrative description of the proposed activity or construction including what is to be constructed and for what purpose, the nature of any repairs or alterations, number of employees, retail sales floor area, basis for number of parking spaces proposed, manner of sewage/refuse disposal, nature of services to be provided, nature of products for sale or manufacture, etc.
- Site Plan Drawing: A detailed drawing indicating any existing structures, and any new proposed structures. The site plan shall contain the following information:
  - A. The date, north arrow and scale. The scale shall not be less than one (1) inch equals twenty (20) feet for property under three (3) acres and at least one (1) inch equals one hundred (100) feet for those three (3) acres or more
  - B. All lot and/or property lines are to be shown and dimensioned, including building setback lines on corner lots.
  - C. The location and height of all existing and proposed structures on and within one hundred (100) feet of the subject property.
  - D. The location and dimensions of all existing and proposed drives, sidewalks, curb openings, signs, exterior lighting, park areas (show dimensions of a typical parking space), unloading areas and recreation areas.
  - E. The location and the pavement and right-of-way width of all abutting roads, streets or alleys.
  - F. For those buildings, uses or facilities which will be used or which will be available for use by the public for the purposes of education, employment, housing (other than a privately owned one- or two-family dwelling), transportation or recreation and for the purchase, rental or acquisition of goods and services, the name and firm address of the professional individual responsible for the preparation of the site plan (including imprint of his professional seal).
  - G. The name and address of the property owner or petitioner.
  - H. The location of all rubbish receptacles and landscaping and the location, height and type of fences and walls.
  - I. A summary schedule should be affixed, if applicable, which gives the following data:
    - The number of dwelling units proposed, to include the number, size and location (by code if necessary) of one- bedroom units two-bedroom units, mobile home sites, etc.
    - The residential area of the site in acres and in square feet, including breakdowns for any sub-areas or staging areas (excluding all existing rights-of-way).
  - J. Size and location of all surface drainage facilities.
  - K. Existing and proposed contours shall be shown on all site plans (two (2) foot intervals minimum) as may be required by the Township, or Village.
  - L. For multiple-family development site plans, there shall be shown typical elevation views of the front and side of each type or building proposed, as well as typical dimensioned floor plans for each type of dwelling unit.
- 3. <u>Site Plan/Statement of Analysis</u>: Site plan and supporting information (including legal description) as required. In addition, if the proposed use is classified as a special land use according to the District in which it is to be located, a statement of analysis must also be included addressing the estimated population holding capacity of any proposed residential use, the anticipated impact upon community facilities (such as schools and infrastructure), the anticipated new traffic generation including available roadway capacities and impact upon neighboring land uses and streets.
- 4. <u>Proof of Property Ownership/Interest/Other Party Information</u>: Proof of ownership of the property such as a warranty deed, land contract or other evidence of interest in the property, and the names, addresses, phone numbers of all other persons or entities having legal or equitable interest in the property including written authorization by the landowner for a person to act on behalf of the landowner (if applicable).
- 5. Deed Restrictions: Copy of any existing and proposed deed restrictions on the property.
- <u>Utilities/Access</u>: Permits/evidence demonstrating Health Department approval of water supply and sewage disposal system, and Road Commission approval for new public roads or proposed driveway/private road intersections with existing public roads (as applicable). Address card from the St. Joseph County Land Resource Centre

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## Village of Colon Fee Schedule

#### THE FOLLOWING COST SCHEDULE WILL APPLY

Zoning Application (No building permit required)	\$25.00
Zoning Application (Building Permit Required)	\$50.00
Agricultural Exemption Letter of Understanding (To be filed on deed)	\$25.00
Re-Zoning Request	\$250.00
Ordinance Amendment Request	\$250.00
Amend Future Land Use Map	\$250.00
Special Exemption Permit	\$250.00
Special Meetings of Zoning Board for any purpose	\$250.00
Zoning Board request for Variance	\$250.00
Special Meetings of Planning Commission for any purpose	\$375.00
Home Occupation Original Application	\$50.00
Home Occupation Annual Renewal	\$20.00
Outdoor Festival Permit (Annually)	N/A
Publishing /Mailing/Administration Fees	\$160.00
Land Division (Parent + First Split)	\$100.00
Land Division Per Split (Same Appllication)	\$50.00
Copy of Master Plan (Paper Copy)	\$75.00
Copy of Master Plan (CD Copy)	\$20.00
Copy of Zoning Ordinance (Paper Copy)	\$75.00
Copy of Zoning Ordinance (CD Version)	\$20.00
FOIA Copies per page	\$0.10
FOIA Labor Charges per Hour	\$12.00

The Zoning Administrator may require the applicant to deposit an Escrow Fee with the township at any time as permitted by the Mendon Township Escrow Fee Resolution

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The following are the varioius contact	s for your zoning and building needs.
ZONING ADMINISTRATOR	BUILDING OFFICIAL
Douglas Kuhlman 65656 Burg Road Sturgis, Mi. 49091 Telephone: 269-651-3130 Fax: 269-651-3131 Email: municipalzoning@gmail.com	Randy Schmeling 10884 Harder Rd Three Rivers, Mi. 49093 Telephone: 269-625-3260 Email: rschmeling1@hotmail.com
PLUMBING OFFICIAL	ELECTRICIAL OFFICIAL
State of Michigan	Ron Bellaire 66751 Conrad Rd Edwardsburg, Mi. 49112 Telephone 269-663-3429 Email: ronb700@aol.com
MECHANICIAL OFFICIAL	ASSESSOR/LAND DIVISION OFFICER
John Dobberteen 400 S. Monroe St. Sturgis, Mi. 49091 Telephone: 269-651-4567 Cell: 269-625-7648 Fax: 269-503-7354 Email: dobberteeninc@gmail.com	Ann Richmond Tel: 269-870-4587
HELATH DEPARTMENT	SOIL EROSION
Branch, Hillsdale,St. Joseph County 1110 E. Hill St Three Rivers, Mi. 49093 Telephone: 269-273-2161	Jeffrey Wenzel Telephone: 269-467-5600

## VILLAGE OF COLON St. Joseph County, Mi.

#### **ZONING/BUILDING PERMIT** - PLOT- SITE PLAN APPLICATION (for single and two-family dwellings including related accessory uses/structures, and temporary dwellings and uses)

Important Notice to Applicants: A minimum of 1 copy of this completed application, along with the same number of copies of supporting documents described below, must be submitted to the Zoning Administrator. The application must be completed in full. If additional space is needed, number and attach additional sheets. Approval of this application is required before a Zoning Permit can be issued. The excavation for or erection of a building or structure prior to the issuance of a Zoning Permit is a violation of the Zoning Ordinance. References to "Section" and "Article" refer to the Zoning Ordinance. They are provided to assist the applicant. The references highlight parts of the Ordinance that may be applicable but do not necessarily identify all parts that apply. Authority: 1972 PA 230. Completion: Mandatory to obtain permit. Penalty: Permit cannot be issued.

#### CHECK TYPE OF REQUEST

RESIDENTIAL PLOT PLAN

SITE PLAN REVIEW

CHANGE OF USE

APPLICANT'S NAME(S) LAST NAME FIRST		ADDRESS	CITY	STATE	ZIP
TELEPHONE #	CELLULAR #	FAX #	EMAIL A	DDRESS	

PROPERTY OV LAST NAME	FIRST	ADDRESS	CITY	STATE	ZIP
TELEPHONE #	CELLULAR #	FAX #	EMAIL A	DDRESS	

ARCHITECT/ENGINEERS NAME LAST NAME FIRST		ADDRESS	CITY	STATE	ZIP
TELEPHONE #	CELLULAR #	FAX #	EMA	IL ADDRESS	
LICENSE #	EXPIRATION DATE		1		

CONTRAC LAST NAME	TORS NAME FIRST	ADDRESS	СІТҮ	STATE	ZIP CODE
TELEPHONE #	CELLULAR #	FAX #	EMA	IL ADDRESS	
LICENSE #	EXPIRATION DATE				
FEDERAL EMPLOY	ER ID NUMBER OR REASON	FOR EXEMPTION			
WORKERS COMPE	NSATION CARRIER OR REA	SON FOR EXEMPTION			
MESC EMPLOYER	NUMBER OR REASON FOR E	EXEMPTION			

#### APPLICANT'S INTEREST in PROPERTY (check one):

] Owner [	Lessee	Buy Option
Other/Spe	ecify:	

#### PROPERTY INFORMATION WHERE CONSTRUCTION IS TO TAKE PLACE:

Street Address:	Tax Parcel #:
Zoning District:	Present Use:
Is Property in a (check if "yes"): Datted or	condominium subdivision? Subd. Name:

Are there any deed restrictions on the parcel? (Check one): Yes No If yes, include copy.

#### TYPE OF IMPROVEMENT AND PLAN REVIEW: (check all that apply)

	NEW	ADDITION/ALTERATION					
				14			
Single Family Dwelling							
Two Family Dwelling							
Mobile Home Set-Up							
Pre Manufacture							
Commercial/Industrial **			1				
Church/Religion **							
School/Library/Educational **							
Multiple Family Dwelling/Hotel/Motel **			Number of Units				
Swimming Pool							
Private Garage			Attached		De-Attached		
Pole Barn			Agricultural Use				
Shed							
Temporary Dwelling							
Other Temporary Use			7				
Home Occupation							
Privacy Fence							
Foundation Only							
Moving of building(s)							
Demolition							
Sign							
Other							
Upon submission for a building	permit, floo	or plans which include elevation	is and a wall cross s	ectio	on must be include	d. If the	*

Upon submission for a building permit, floor plans which include elevations and a wall cross section <u>must</u> be included. If the application is for new home construction, energy compliance calculations <u>must</u> be submitted. If a structure is being constructed for Agricultural Use, a Letter of Understanding <u>must</u> be signed by the property owner prior to a zoning permit being issued allowing for a building permit exemption.

If one of the boxes in this section indicated by ** is checked plans and specifications are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear the architect's or engineer's seal and signature. Plans are not required for alterations and repair work if determined by the building official to be minor in nature.

#### PROPOSED CONSTRUCTION AND USE OF LAND OR CHANGE OF USE

Describe in detail the proposed alterations, repairs, and/or additions or demolitions to any new and/or existing principal and/or accessory buildings and include the proposed use of such building(s) if applicable.

		CHAR	ACTER	ISTICS OF BUILD	DING		
ncipal Type of Frame					-		
Masonry, Wood Frame			Structural Steel		Reinforced Concrete	Other	
ncipal Type of Heating F	Fuel					Concrete	
Gas	] Oil			Electricity		Wood/Coal	Other
be of Sewage Disposal	- 1			1			
Public or Private Corr	npany	Septic Sys	em				
be of Water Supply			-				
Public or Private Com	npany	Private We	II or Cist	ern			
be of Mechanical	and the second sec						and the second second
Contraction of the second second							
Will there Be Air Con	ditioning?	Ye	s	No Will there be	e fire sup	pression?	Yes No
Have all of the setbac	ck requireme	nts been met	for the v	vater supply/water	well sys	stem? (Check on	ne):
	ck requireme ck requireme ck requireme ck requireme	nts been met nts been met nts been met nts been met	for the state of t	water supply/water sewer system/sept electrical supply lin gas lines/propane	ic syster ics? (Cf supply s	stem? (Check on m? (Check one): heck one):  Ye ystems? (Check	ne):  Yes No
Have all of the setbac Have all of the setbac Have all of the setbac Have all of the setbac Are there any utility e	ck requireme ck requireme ck requireme ck requireme casements or	nts been met nts been met nts been met nts been met other easeme	for the s	water supply/water sewer system/sept electrical supply lin gas lines/propane state the parcel? (Chec	well system ic system ess? (Ch supply s k one):	stem?         (Check one):           m?         (Check one):           heck one):         Ye           ystems?         (Check           Yes         No	ne):  Yes No

include a house, garage, pole barn, shed, outdoor wood boilers, generators privacy fences etc.

#### BUILDING CHARACTERISTICS:

The proposed building characteristics of new constructions are as follows:

Building #1 consisting of _____

Feet	Requi	red		Description		Feet	Required		Description
			1	From front lot line			Fro	m right side lot line	
			1	From rear lot lin	ne			Fre	om left side lot line
		Height of existing principal structure	Height of existing principal structure				Height of proposed building/structure		
		Proposed structure length				Prop	osed structure width		
			1	Number of stori	es			Agricultur	al Use Y = Yes No = No
			Squar	re feet gross flo	oor area			Fro	m nearest structure
			Squa	are feet of foun	dation			Total so	quare footage of parcel
			P= Princip	pal Use A=Acc	essory Use			From lake, st	ream, shore, pond, waterway
Floor Ar Sq. Foota		E	xisting	New	Alteratio	ns			
Baseme	ent						Number o	f Occupants	
First Flo	or						Use	Group	
Second F	loor						Constru	ction Type	
Third Flo							1		
To be comp	pleted for i	nonre	sidential requ	Jests					
Number of	of Off Str	reet F	Parking Sp	aces					
1	sed			Outdoors			Handicap Enclosed		Handicap Outdoors

\$

ESTIMATED TOTAL PROJECT COST (Required Information)

**Required Information** 

#### Building #2 consisting of _____

Feet	Required		Description		Feet	Required		Description
		F	rom front lot lin	e			Fro	m right side lot line
_		F	rom rear lot lin	e			Fro	om left side lot line
		Height of e	xisting principa	I structure			Height of p	roposed building/structur
		Propo	sed structure l	ength	1		Prop	osed structure width
		N	umber of storie	S			Agricultu	Iral Use Y = Yes N=No
		Square	e feet gross floo	or area			From	n nearest structure
		Squa	re feet of found	lation			Total so	uare footage of parcel
		P= Princip	al Use A=Acce	essory Use			From lake, str	eam, shore, pond, water
Floor A Sq. Foc		Existing	New	Alteratio	ons	a dama a		
Basem	nent					Number of	f Occupants	
First F	loor					Use	Group	
Second	Floor					Constru	ction Type	
Third F	and the second sec							
	npleted for non of Off Stree							
Number	or on Suee	raiking op	aces				- T - T	
	losed		Outdoors			Handicap Enclosed		Handicap Outdoors

ESTIMATED TOTAL PROJECT COST (Required Information)	\$ Required Informat	ion
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AFFIDAVIT: I (we) the undersigned affirm that the foregoing answers, statements, and information, and any attachments, are in all respects true and correct to the best of my (our) knowledge and belief. I (we) the undersigned understand that the Zoning Permit applied for, if granted, is issued on the representations made herein and that any Zoning Permit or Building Permit subsequently issued may be revoked because of any breach of representations or conditions, or because of the lack of continued conformance with zoning ordinance requirements. I understand that incomplete applications which also includes application fees will not be processed. Incomplete applications will be closed after 45 days, applicant will have to re-submit including all applicable fees.

> I (we) the undersigned fully understand that acceptance and/or approval of this application for zoning and/or building permit(s) does not confer approval by any other municipal entity. We fully understand that the use of a septic system or other on-site sewage disposal system and/or preparation for the use of such system, is the full responsibility of the applicant. Applicant is advised to contact their local District Health Department for a determination whether a "change in use" permit is required.

I (we) the undersigned authorize the zoning administrator, building official, inspector, Health Department and any other person authorized by the Zoning Administrator or Building Official to enter onto the property subject to this permit , and into any structure to be constructed or presently under construction hereon for the purpose of conducting inspections for compliance. Entry into presently occupied dwelling units that are the subject of this application/construction (i.e. expansion/modification of residential unit) shall be permitted as required under arrangement with the individual inspection and/or officials requiring entry. Failure by the undersigned to permit such inspections shall result in the Zoning Permit Application and/or building permit being denied, or immediate termination of the Zoning Permit and/or building permit that has been issued.

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his /her authorized agent, and we agree to conform to all applicable laws of the State of Michigan. Section 23a of the State Construction Code Act of 1972, 1972 PA 230. MCL. 125.1523A prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23a are subject to civil fines.

I understand that the Zoning Administrator and/or Building Official may require that a survey be preformed to verify information regarding the property and/or buildings and /or structures located on the parcel.

I understand that incomplete applications, or applications that have been denied, will only be held open for 45 days. After 45 days a new application will have to be submitted along with new application fees.

Applicant/Agent Signature(s) Date Before signing, please read below

Property Owner's(s) Signature(s) Date (if different than applicant)

#### READ BEFORE SIGNING

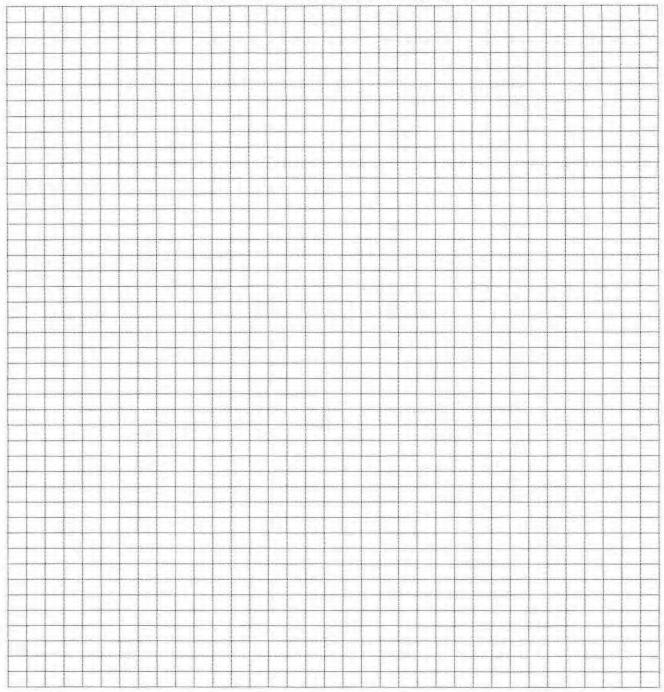
As agent of the above-referenced owner of the property, I assert that I have authority to sign this document on behalf of the owner and to bind such owner to the terms and conditions set forth herein as if the owner signed himself. I understand that signing this document on behalf of the owner without the legal authority to do so constitutes fraud and/or perjury and that I may be prosecuted for the same".

A person shall not be recognized as the agent, attorney, engineer, architect, or builder of another person unless the person seeking recognition files with the enforcing agency a written instrument, which shall be an architectural, engineering, or construction contract, power of attorney, or letter of authorization signed by that other person designating the person seeking recognition as the agent. attorney, architect, engineer, or builder and, in case of a residential builder or maintenance and alteration contractor, architect, or engineer, setting forth the license number of the person seeking recognition and the expiration date of the license.

#### SPACE BELOW FOR TOWNSHIP USE ONLY

	Number:			
Date(s) Rec	eived:			
Fees Paid:	Date	Amount	Check #	Receipt #
Actions Tal	ken:		Actions Tak	en
Date	Action Taken By		(approved, denied, approve	d w/conditions, tabled, etc.)
Other Com	ments			

······································		FOR OF	FICIAL USE ON	LY	and the second s	
		Enviro	nmental Controls	S		
	REQUIRED		OBTAINED		DATE	APPROVED BY OR PERMIT #
ZONING	YES	NO	YES	NO		
ADDRESS ASSIGNED	YES	NO	YES	NO		
SOIL EROSION	YES	NO	YES	NO	100	
FLOOD HAZARD ZONE	YES	NO	YES	NO		
SEPTIC SYSTEM	YES	NO	YES	NO	in the second	
WATER SUPPLY	YES	NO	YES	NO	Version	
SEPTIC SYSTEM	YES	NO	YES	NO		
DRIVEWAY PERMIT	YES	NO	YES	NO		
	YES	NO	YES	NO		
	YES	NO	YES	NO		



#### Place the NORTH ARROW in the CORRECT DIRECTION Here: _ W $\ ^{\wedge}$

The plot plan must be completed in its entirety prior to any review. This grid paper may be used or a separate plan attached. Required information includes, but is not limited to:

- 1. The location, shape, area and dimension of the lot.
- 2. The location, dimensions, and height of <u>any and all</u> existing and/or proposed structures and buildings to be erected, altered, or moved on the lot. Measurements from all property lines and other structures shall be included.
- 3. All streets that adjoin the property.
- 4. All front, side and rear yard setback dimensions, and where such dimensions are measured from.
- 5. Location of any existing and/or proposed septic system, drain field and well easements or right of ways.
- 6. Configuration of existing and/or proposed driveways.
- 7. Location of any lakes, streams, ponds or wetlands, on or adjoining the property.
- 8. Location of well, septic and drain field must be on the drawing along with measurements from structures.

## **Colon Village**

St. Joseph County, Michigan

## **ZONING PERMIT**

Date:

SF - Single Family Residence

#### Dear

This Zoning Permit is issued to certify that official approval has been granted by the Colon Village Zoning Administrator on your Zoning Permit Application, Application #COZA1700000 for Tax Parcel 75-041-000-000-00 at address 125 Main St.. The permit is for a 1900 Sq Ft principal Dwelling construction project. This permit certifies that the approved application is in compliance with the Colon Village Zoning Ordinance, and that authority is hereby granted to the owner of said property to make changes to the property as detailed in the application in compliance with all conditions that may have been placed on such approval. Your application was:

Approved as submitted	Approved with conditions		
Building Permit Required	🗌 Yes	🗌 No	
Agricultural Use	🗌 Yes	🗌 No	
Verify FEMA Flood Hazard Zone	Yes	🗌 No	
Soil Erosion Permit Requirted	☐ Yes	🗌 No	

#### **Special Conditions:**

This Zoning Permit authorizes all construction activities, land uses, building setbacks, parking locations, and all other site development features in compliance with the approved Plot Plan/Site Plan, dated and/or revised through February 2017 and all conditions made part of such approval.

The erection of a building or structure, or excavation for any building or structure, prior to the issuance of a Building Permit is a violation of the Colon Village Zoning Ordinance. A Building Permit will not be issued until a Zoning Permit has been issued and all requirements of all applicable building codes have been met. This Zoning Permit does not signify compliance with local, county or other building codes, or with the requirements of the St. Joseph County Health Department.

This instrument does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of conforming to all applicable federal, state, and local statutes and acquiring all other necessary permits from such authorities. This permit expires 12 months from the date of issuance.

Please call if you have any questions.

Sincerely,

Douglas Kuhlman, Zoning Administrator 65656 Burg Road, Sturgis, Mi. 49091 Telephone: 269-651-3130 Fax: 269-651-3131

Zoning Permit (7/13)

C.I.	State of Mid	chigan	Ticket No. CO			Invol
	Uniform Law		Incident No. CO		Dept. No.	11100
	the State of M	lichigan	Local Use/Arre	st No.	Offense Co	ode
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#### CIVIL INFRACTION - READ CAREFULLY

WARNING If you fail to appear by the date specified on the front of this citation or at the date and time scheduled for hearing, a default judgment will be entered against you. A person who fails to answer a citation is guilty of a misdemeanor. Timely application to the court for a hearing or return of the citation with an admission of responsibility and with full payment of applicable civil fines and costs constitute a timely appearance.

If this is a traffic violation and you fail to answer this citation or a notice to appear, the Secretary of State will suspend your driver license.

If this is a state civil infraction and you fail to answer this citation or a notice to appear, the Secretary of State will not issue or renew your driver license.

If this is a municipal civil infraction and you fail to answer this citation or a notice to appear in court or to comply with a judgment, the municipal agency that alleged the violation and the prosecutor may try to collect the judgment through civil post judgment collection procedures.

You are alleged to be responsible for a civil infraction. You must either.

· Admit Responsibility (including full payment); or

· Admit Responsibility with Explanation; or

Deny Responsibility

ADMIT RESPONSIBILITY by mail, in person, or by representation.

BY MAIL Contact the court indicated on the front of this citation and obtain the amount of your fine and costs. Sign below. Mail this copy with your certified check or money order to the court clerk, on or before the date specified on the front of this citation.

IN PERSON OR BY REPRESENTATION. Sign below. You or your representative must bring this copy to the court clerk at the address indicated on the front of this citation on or before the date specified on the front of this citation.

lenter my appearance, waive my right to a hearing, and I admit responsibility for the civil infraction alleged on the front of this citation.

#### Signature

Date

ADMIT RESPONSIBILITY WITH EXPLANATION. You may admit responsibility with explanation of the circumstances of the violation which the court may consider in determining the amount of your fine and costs. You may admit responsibility with explanation by mail, in person, or by representation.

IN PERSON OR BY REPRESENTATION. Contact the court on or before the date specified on the front of this citation in person, by mail, by telephone, or by representation to obtain a time to appear in court to give your explanation.

BY MAIL. Sign below. Mail this copy and your explanation on a separate sheet of paper to the court clerk at the address indicated on or before the date specified on the front of this citation. The court will mail you its determination and, if applicable, order any fine and costs to be paid by you.

I enter my appearance by mail, waive my right to a hearing, and admit responsibility with explanation for the civil infraction alleged on the front of this citation.

#### Signature

Date____

DENY RESPONSIBILITY. To deny responsibility you must either:

- Appear in person in court for an informal hearing before a magistrate, referee, or judge; neither side may have an attorney, OR
- Appear in court for a formal hearing before a judge. An attorney will be with the officer. You may be represented by an attorney.

If a hearing date is specified on the front of this citation, you must appear on that date for an informal hearing unless you contact the court at least 10 days before that date by mail, telephone, representation, or in person to request a formal hearing.

If an appearance date is specified on the front of this citation, you must contact the court on or before that date by mail, telephone, representation, or in person to obtain a hearing date. The court will schedule an informal hearing unless you request a formal hearing. A municipal agency may also request a formal hearing.

Notify the court and the Secretary of State immediately if you change your address. PLEASE NOTE: If you do not understand these instructions, or if you have questions about what you must do, contact the court in person or by telephone on or before the appearance date or hearing date specified on the front of this citation.

CIVIL INFRACTION COPY

## BUILDING PERMIT

		DATE			PERMIT NO		
APPLICANT		ADDRESS					
			(NO,)	(STREET)			(CONTR'S LICENSE)
PERMIT TO		STORY				NUMBER OF DWELLING UNITS	
TYPE OF	MPROVEMENT) NO.			(PROPOSED USE	)	- Auto - Auto	
AT (LOCATION)						ZONING DISTRICT	
(NO.) STREET)							
BETWEEN	(CROSS STREET)			AND	100	OSS STREET)	
- Harden and Andreas	(04030314221)				(64)	085 51REC1)	
SUBDIVISION				LOT	BLOCK	LOT SIZE	
BUILDING IS TO BE	FT. WIDE BY		FT.LONG B	Y	FT. IN HEI	SHT AND SHALL CONFOR	M IN CONSTRUCTIO
TO TYPE	USE GROUP			BASEMENT WALLS	OR FOUNDATION		
REMARKS:						(TYPE)	
AREA OR VOLUME				ESTIMATED COST	S	PERMIT FEE \$	
	(CUBIC / SQUARE FEET)						
					BUILDING DEPT.		
ADDRESS					BY		

## **INSPECTION RECORD**

DATE	NOTE PROGRESS - CORRECTIONS AND REMARKS	INSPECTOR

I hereby certify that the proposed work is authorized by the owner of record and I have been authorized by the owner to make this application as his/her authorized agent.

SIGNATURE OF AGENT			
	(STREET)	(CITY)	
APPROVED BY		TITLE	
DATE			

#### YOUR SPECIAL ATTENTION is called to the following:

This permit is granted on the express condition that the said construction shall, in all respects, conform to the Ordinances of this jurisdiction including the Zoning Ordinance, regulating the construction and use of buildings, and may be revoked at any time upon violation of any provisions of said ordinances.

Weatherproof placard given at the time permit is issued must be displayed on premises. The department must be notified and inspection made of prior construction work as requested on weather card. All new buildings and additions and alterations to existing buildings require a minimum of three called inspections, namely, (1) Footings, drain tile systems, foundation and basement walls, when walls are at least two feet high, but before back filling the wall and before proceeding with the superstructures. (2) Framing prior to lath or finish covering but after firestopping, electrical, plumbing and mechanical systems are installed. (3) Final inspection when building or structure is completed.

On jobs involving reinforced concrete work, inspection must be made after steel is in place and before concrete is poured.

The Department reserves the right to reject any work which has been concealed or completed without first having been inspected and approved by the Department in accordance with the requirements of the various codes.

Any deviation from the approved plans must be authorized by the approval of revised plans, subject to the same procedure established for the examination of the original plans. An additional permit fee is also charged predicated on the extent of the variation from the original plans.

Permits are not valid if construction work is not started within six months from the date permit is issued.

Request for Final Inspection should be made by postcard or phone call to *this department* when the construction work is completed and heating apparatus has been installed. Painting or decorating is not required before the Final Building Inspection.

Final Inspection and certificate of occupancy must be obtained before occupying building,

## DEPARTMENTAL APPROVAL FOR CERTIFICATE of OCCUPANCY and COMPLIANCE

To be filled in by each division indicated hereon upon completion of its final inspection.

BUILDINGS	Permit No	
Approved by	Date	
	Permit No.	tionad
Approved by	Date	
	Permit No	the special second
Approved by	Date	
	Permit No	-
Approved by	Date	_
Remarks		
OTHER	Permit No	
Approved by	Date	
Remarks		-
-		

INSPECTIONS REQUIRED FOR ALL CONSTRUCTION WORK: 1. FOUNDATIONS OR FOOTINGS. 2. PRIOR TO COVERING STRUCTURAL MEMBERS (READY FOR LATH OR FINISH COVERING). 3.FINAL INSPECTION BEFORE OCCUPANCY BUILDING INSPECTION APPROVALS 1 2 2 2 2 2	BUILDING PERMIT JOB WEATHER CARD
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UNTIL THE INSPECTOR HAS STRUCTION WORK IS NO	NUEL AND VOID IF CON- INSPECTIONS INDICATED ON TH CARD CAN BE ARRANGED FOR E PERMIT IS ISSUED AS NOTED TELEPHONE OR WRITTEN NOTIFIC.

269-663-3429 From the Desk of Ron Bellaire

Permit applicant,

I am sending this as an aid to filling out the electrical permit application. Please take the time to read, as incomplete applications will be sent back and the issuance of the permit will be delayed.

Section I: Homeowner name & Job Location. Fill out all parts. One of the building permit boxes must be checked.

Section II: Contractor/Homeowner Information: If your home address is the same as the job location, mark same as above or write in your current mailing address and check the homeowner box. Be sure to incluse the property ID number. Note that all the other boxes are for licensed electrical contractors and the homeowner only needs to fill in your telephone number and email.

Section III: Type of Job: Mark the box that applies to your installation. If there is no appropriate box, mark other, and write type of work it is.

<u>Section IV</u>: <u>Plan Review Required</u>: Plan review is usually for commercial and industrial jobs, Service or feeder must be over 400 amps and the size of the project exceeds 3500 square feet. Plans may be require for projects with unusual design characteristics. Complete electrical drawings stamped by an architect or engineer must be submitted, plan review fees are calculated at 60 % of the electrical permit fees, paid before a permit can be issued.

Sections V & VI: Applicant Signature & Homeowner Affidavit: If you are the applicant and homeowner, please read both parts, noting that only homeowners that reside at the address and licensed electrical contractors with a few exceptions can be issued permits and install electrical equipment in Michigan. Homeowners should read the affidavit carefully as they are liable for all of the electrical work, including personally installing it and scheduling inspections. It is a violation for a land owner to alter electrical equipment in rental or flip properties.

Section VII: This is informational only.

Section VIII: Fee Chart Any item you are installing has fees involved. The fees shown on the application are itemized; items #1 & #30 are to be included on all applications. If a service is needed then an item 2 thru 6 should be marked, unless you are installing a temporary service for new construction then 2 services would be required. Line 7 is the number of circuit breakers you will install in electrical panels. Each item in line 8 equals 25 fixtures. All mobile homes and most modular homes require item 16 (feeder). Lines 23 thru 25 are for commercial fire alarms (not residential smoke detectors). Please call me if you have any questions on your installation at 269-663-3429.

Section IX: Please read, Very important. Note area under section IX.

Section X: Utility work order number: If a new, temporary, repaired or replaced electrical service is to be installed then the power company must be notified, preferably before any work is done. They will issue a work order or energy request number. If it's not available at time of permit application, then it must be given to the inspector at time of inspection request.

Some jurisdictions have passed local ordinances (laws) that increase or double permit fees in the event a job is started before a permit is issued, an advance phone call to me can usually avoid this.

Respectfully, Row Bellaire Electrical Inspector



## ELECTRICAL PERMIT APPLICATION

Permit Number (office use only)

## Fabius Township

AUTHORITY: P.A. 230 OF 1972, AS AMENDED COMPLETION: MANDATORY TO OBTAIN PERMIT PENALTY: PERMIT CAN NOT BE ISSUED

#### I. JOB LOCATION

Name of Owner/Agent	Has a building permit b Ves	een obtained for this project?	Not required
Street Address & Job Location (Street No. and Name)	City/Village	Township	County
		Fabius	St. Joseph

#### II. CONTRACTOR / HOMEOWNER INFORMATION

<ul><li>Contractor</li><li>Homeowner</li></ul>	Name			State License Number Expiration Date		
Address (Street No. an	d Name)			Property ID Number		
City		State	Zip Code	E-Mail		
Telephone Number	Mobile Phone #			Federal Employer ID Numb	per (or reason for exemption)	
Fax Number	Workers Compe	nsation Insurance	Carrier (or reason for exemption)	MESC Employer Number (	or reason for exemption)	

#### III. TYPE OF JOB

□ Single Family	□ New □ Garage	Alteration	Pre-manufactured Home Setup (State Approved)	a	Industrial
D Pole Barn	a other (write in)	Special Inspection	Manufactured Home Setup (HUD Mobile Home)		Commercial

#### IV. PLAN REVIEW REQUIRED

See below for plan review requirements before completing this section. Plans and specifications must be submitted when the wiring or alteration to an electrical system is over 400 amps and is in excess of 3,500 square feet in all buildings.

What is the rating of the service or feeder in amperes?

What is the building size in square feet?

Have plans been submitted?	0	YES		NO		NOT REQUIRED
----------------------------	---	-----	--	----	--	--------------

Plans are required for all building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to Act No. 299 of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's signature and seal, except:

1. When the electrical system rating does not exceed 400 amps and the building is not over 3,500 square feet in area.

2. Work completed by a governmental subdivision or state agency costing less than \$15,000.00

PLANS MUST BE SUBMITTED BEFORE A PERMIT CAN BE ISSUED.

#### V. APPLICANT SIGNATURE

Section 23a of the State Construction Code Act of 1972, 1972 PA 230, MCL 125.1523A, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential structure. Violators of sections 23a are subjected to civil fines.
Signature of Licensee or Homeowner (Homeowner signature indicates compliance with Section VI. Homeowner Affidavit) Date

#### VI. HOMEOWNER AFFIDAVIT

I hereby certify the electrical work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the Electrical Code and shall not be enclosed, covered up, or put into operation until it has been inspected and approved by the Electrical Inspector. I will cooperate with the Electrical Inspector and assume the responsibility to arrange for necessary inspections.

### COMPLETE APPLICATION ON BACK SIDE

## MECHANICAL PERMIT APPLICATION

## FABIUS TOWNSHIP John Dobberteen, Mechanical Inspector Phone (269) 651-4567

M 2013 M Authority: 1972 PA 230 Completion: Mandatory to obtain permit Penalty: Permit can not be issued

Job Location					
NAME OF OWNER/AGENT				HAS A BUILDING PERMIT	BEEN OBTAINED FOR THIS PROJECT?
				Yes No	Not required
STREET ADDRESS & JOB LOCATION	(Street No. and Name)	NAME OF CITY, VILL City Village	AGE OR TOWNSHIP IN W Township O		COUNTY
. Contractor/Homeowner Inform	nation				
INDICATE WHO THE APPLICANT IS Contractor Homeowner	NAME			LICENSE NUMBER	EXPIRATION DATE
ADDRESS (Street No. and Name)			CITY	STATE	ZIP CODE
TELEPHONE NUMBER (Include Area C	lode)		FEDERAL EMPLOYER	ID NUMBER (or reason for exem	ption)

## III. Type of Job

Single Family	New	Special Inspection	Premanufactured Home Setup (State Approved)	State Owned
Other	Alteration	LP Tank	Manufactured Home Setup (HUD Mobile Home)	School

#### IV. Plan Review Required

Plans must be submitted with an Application for Plan Examination and the appropriate deposit before a permit can be issued, except as listed below.

Plans are not required for the following:

1. One-and two-family dwellings when the total building heating/cooling system input rating is 375,000 Btu's or less.

2. Alterations and repair work determined by the mechanical official to be of a minor nature.

- 3. Business, mercantile, and storage buildings having HVAC equipment only, with one fire area and not more than 3,500 square feet.
- Work completed by a governmental subdivision or state agency costing less than \$15,000.00.

If work being performed is described above, check box below "Plans Not Required."

What is the building size in square footage?

What is the input rating of the heating system in this building?

WORKERS COMPENSATION INSURANCE CARRIER (or reason for exemption)

Plans are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear that architect's or engineer's seal and signature.

Plan Review Submission No.

**Plans Not Required** 

MESC EMPLOYER NUMBER (or reason for exemption)

V. Applicant Signature

Section 23a of the state construction code act of 1972, 1972 PA 230, MCL 125.1523A, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of section 23a are subjected to civil fines.

SIGNATURE OF LICENSEE OR HOMEOWNER (Homeowner's signature indicates compliance with Section VI Homeowner Affidavit)

DATE

VI. Homeowner Affidavit

I hereby certify the mechanical work described on this permit application shall be installed <u>by myself in my own home</u> in which I am living or about to occupy. All work shall be installed in accordance with the Michigan Mechanical Code and shall not be enclosed, covered up, or put into operation until it has been <u>inspected</u> and <u>approved</u> by the State Mechanical Inspector. I will cooperate with the State Mechanical Inspector and assume the responsibility to arrange for necessary inspections.

#### **Complete Application on Back Side**

VII. Fee Clarification

Item #2, Residential Heating System: This item is used for the installation of a heating system in a new residential structure. Items #10; Gas Piping and #18; Duct, SHOULD NOT BE charged. Replacement systems should be itemized.

Item #4, Residential Boiler: A residential boiler must be installed by a licensed boiler installer.

Items #14 and #15, Tanks: A homeowner must own tank to install. If homeowner does not own tank, a licensed mechanical contractor must install tank.

BCCFS-9 (Rev. 3/06) Front

## PLUMBING PERMIT APPLICATION

## FABIUS TOWNSHIP John Dobberteen, Plumbing Inspector Phone (269) 651-4567

	P 2013
Authority:	1972 PA 230
Completion:	Mandatory to obtain permit
Penalty:	Permit can not be issued

I. Job Location					1	(Telle			
NAME OF OWNER/AG	SENT							BTAINED FOR THIS PROJECT?	
STREET ADDRESS &	STREET ADDRESS & JOB LOCATION (Street No. and Name) NAME OF CITY, VIL		NAME OF CITY, VILL	AGE OR TOWNSHIP IN WH	Yes No No OR TOWNSHIP IN WHICH JOB IS LOCATED COUNTY		Not required		
	City Village Township OF:		Township OF:		ALCONDUCT IN T				
II. Contractor/Home	owner Informatio	on							
INDICATE WHO THE		NA	ME OF PLUMBING CONT	RACTOR OR HOMEOWNER	s co	INTRACTOR LICENSE	NUMBER	EXPIRATION DATE	
Contractor Homeowner							1.000		
ADDRESS (Street No.	Water Treatment I	nstaller		CITY	- CT	ATE		ZIP CODE	
ADDRESS (Street No.	and Name)			GIT	51	ALE		ZIF GODE	
TELEPHONE NUMBE	R (Include Area Code)			FEDERAL EMPLOYER I	D NUMBER (	or reason for exemption	n)		
WORKERS COMPEN	SATION INSURANCE	CARRIER (or reaso	n for exemption)	MESC EMPLOYER NUM	IBER (or reaso	on for exemption)			
NAME OF MASTER P	LUMBER			1	MA	ASTER LICENSE NUME	BER	EXPIRATION DATE	
BUSINESS/BRANCH	ADDRESS			CITY	ST	ATE	ZIF	P CODE	
III. Type of Job				A					
Single Family	New	Sewer Only	Water Sen	vice Dremanufactu	red Home	Setup (State Approv	(boy	State Owned	
		-	Only				C. 2020		
Other	Alteration	Special Ins	pection	Manufactured	i Home Set	up (HUD Mobile Ho	me)	School	
area. 2. Alte nature. 3. Bi 4. Work com	two-family dwellin rations and repain uildings with a rec opleted by a gove	ng containing no r work determin quired plumbing rnmental subdiv	fixture count less that vision or state agency	official to be of a minor an 12.					
Plans are requir to 1980 PA 299 a	ed for all other bund shall bear that	uilding types an t architect's or e	d shall be prepared b ngineer's seal and si	by or under the direct signature.	supervisior	of an architect o	r enginee	er licensed pursuant	
Plan Review Submission No.				Plans Not Required					
V. Applicant Signat	ure								
	this state relating			ICL 125.1523A, prohib rk on a residential bui					
SIGNATURE OF PLUM compliance with Section			ER, WATER TREATMENT	INSTALLER, OR HOMEOW	NER (Homeow	ner's signature indicates	DATE		
VI. Homeowner Affi	idavit								
occupy. All work	shall be installed inspected and a	in accordance approved by the	with the Michigan Plu the State Plumbing In	shall <u>be installed by</u> umbing Code and <b>sha</b> ispector. I will cooper	Il not be e	enclosed, covere	d up, or	put into operation	
			Complete App	lication on Back Side					
								_	
VIIa, Fee Clarificati	on		the state of the s		-				

Item #2, Mobile Home Unit Site: WHEN item is used for sewer excavations in a new park, the permit application should include the application fee plus the number of unit sites. WHEN setting a mobile home in a park, or a mobile or modular home on private property, a permit should include the application fee, a sewer or building drain, and a water service or water distribution pipe.

# **LEGAL NOTICE** These premises, IT IS HEREBY ORDERED that

## all persons cease, desist from and

# **STOP WORK**

# At once pertaining to construction,

# alterations or repairs on this premises

known as

ADDRESS

All persons acting contrary to this order or removing or mutilating this notice are liable to arrest unless such action is authorized by the department.

VIOLATION

OFFICIAL

DATE OF NOTICE

**CONTACT NUMBER** 

# **DANGER** This Structure is Declared Unsafe For Human Occupancy or Use. It is Unlawful or Any Person To Use Or Occupy This Building.

# Any Unauthorized Persons Removing this Sign WILL BE PROSECUTED.

ADDRESS

VIOLATION

OFFICIAL

DATE OF NOTICE

**CONTACT NUMBER** 

## ~ ~ ~ ~ FAIL ~ ~ ~ ~ DO NOT PROCEED

## **WORK DONE IN VIOLATION OF CODE**

BUILDING

HEATING

MECHANICAL

PLUMBING

## **CALL INSPECTOR IMMEDIATELY**

INSPECTOR

## ~ ~ ~ ~ FAIL ~ ~ ~ ~ DO NOT PROCEED

## **WORK DONE IN VIOLATION OF CODE**

BUILDING

HEATING

MECHANICAL

PLUMBING

## **CALL INSPECTOR IMMEDIATELY**

INSPECTOR

## ~ ~ ~ ~ FAIL ~ ~ ~ ~ DO NOT PROCEED

## **WORK DONE IN VIOLATION OF CODE**

-	B				
1.1	-		LD		-
	H.			110.	100
	-	<b>W 1</b>	See Bar		

HEATING

MECHANICAL

PLUMBING

## **CALL INSPECTOR IMMEDIATELY**

## ~ ~ ~ ~ FAIL ~ ~ ~ ~ DO NOT PROCEED

## **WORK DONE IN VIOLATION OF CODE**

BUILDING

HEATING

MECHANICAL

PLUMBING

## **CALL INSPECTOR IMMEDIATELY**

INSPECTOR

INSPECTOR

# **CONDEMNED** as Dangerous and Unsafe DANGER - - KEEP OUT

All persons are hereby notified to keep out as long as this notice remains posted. Any person willfully destroying, mutilating or removing this placard will be punished to the full extent of the law.

ADDRESS

VIOLATION

OFFICIAL

DATE OF NOTICE

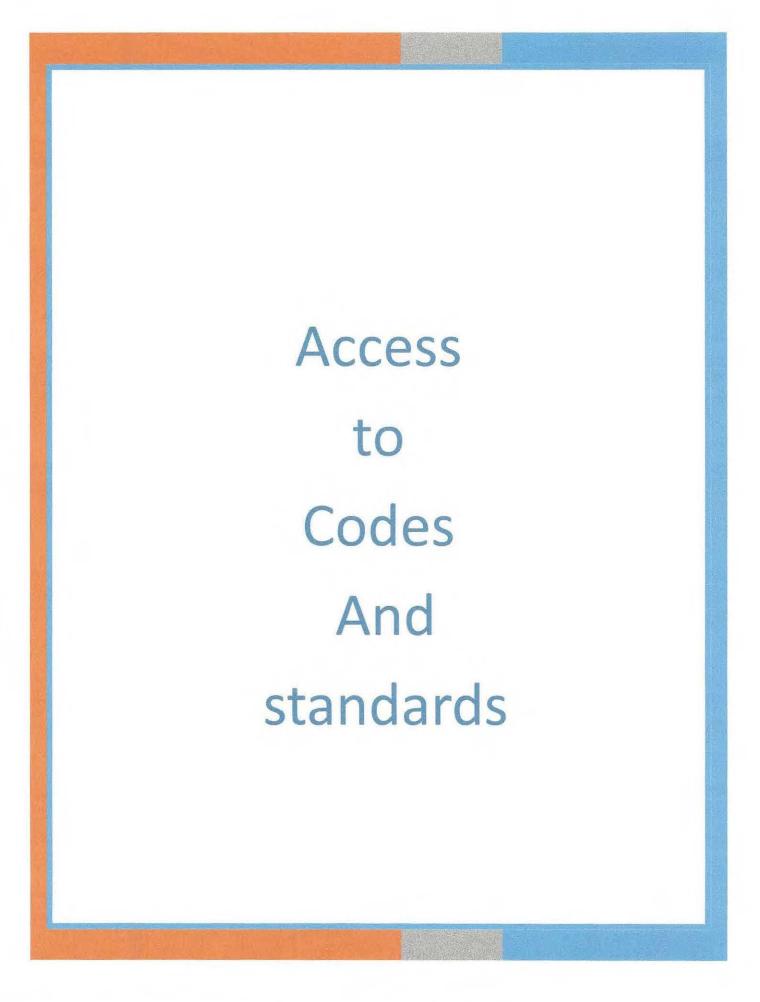
**CONTACT NUMBER** 

772

Randv	Schmeling

Building Official & Inspector rschmeling1@hotmail.com

10884 Har Three Rive	rder Road ers, MI 49093	Ph: (269) 244-5184 Cell: (269) 625-3260			
Inspections	Sheet For:				
BUILDING FOOTING ROUGH-IN FINAL	PLUMBING UNDERGROUND ROUGH-IN FINAL	MECHANICAL UNDERGROUND ROUGH-IN FINAL	ELECTRICAL UNDERGROUND ROUGH-IN FINAL		
Inspector_		Date App	rove 🗌 yes 🗌 no		
Reason					
+					
-					
•					
Correct prior t	0	and	call for reinspection		



Each of the municipalities seeking to administer and enforce their jurisdictions is member of the Southwest Michigan Essential Standards Construction Code Library.

The municipality and each of the trade officials for each of the jurisdictions has 24 hour a day 7 days a week access to this library. The Southwest Michigan Construction Code Essential Standards Library was created and is maintained after

the Bureau of Construction Codes sent correspondence to the municipalities indicating that if they were going to enforce the construction codes that

they would have to have there own reference standards. The first letter projected the cost to be near \$100,000.00. A short time later, new correspondence was released that stated that those municipalities would have to have only the essential standards with a projected cost of \$30,000.00. Due to the fact that Mottville Township in St. Joseph County had a large commercial project at a standstill due to inspectors not available, and being denied the right to have a local inspector finish the inspections due to the Township not having their reference standards, this was the driving for to create what is now known as the Southwest

Michigan Construction Code Essential Standards Library. Mottville Township covered the majority of the cost for renovation to their building for this library.

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## JOINT AGREEMENT FOR CREATING AND MAINTAINING AN "ESSENTIAL STANDARDS" CONSTRUCTION CODE LIBRARY

THIS AGREEMENT is made this 10th day of February, 2015, by and between the Village of Colon, ST. JOSEPH COUNTY MICHIGAN, a Michigan municipal corporation ("MEMBER"), the principal business address of which is 110 N. Blackstone Ave. Colon, Mi. 49040 and all other municipal entities who are voluntary MEMBERs in the Southwest Michigan Construction Code Essential Standards Library ("SWMICCL") and signators to this agreement.

## A. RECITALS

WHEREAS, MEMBER administers and enforces/desires to administer and enforce the Stille-DeRossett-Hale Single State Construction Code Act, 1972, PA 230, as amended; and

WHEREAS, the State of Michigan Department of Regulatory Affairs Bureau of Construction Codes ("BCC") requires a municipality that administers and enforces the State Construction Code to provide and maintain a library of current standardized codes, consisting of the Building, Energy, Plumbing, Electrical and Mechanical Codes and certain related sub-codes (hereinafter "Code Books"); which Code Books are maintained by the MEMBER; and

WHEREAS, the BCC also now requires a municipal entity that administers and enforces the State Construction Code to have access to the "essential standards" that are referenced in the backs of the Code Books; and

WHEREAS, BCC has issued a list of Essential Referenced Standards dated 4/22/14 and 5/7/14 which list is published on the BCC website (herein "Referenced Essential Standards"); and

WHEREAS, BCC estimates the costs to obtain such Referenced Essential Standards is \$30,000; and

WHEREAS, BCC requires the MEMBER to provide "access" to such Essential Referenced Standards, indicating that "access" may be obtained via the maintenance of its own library of Essential Referenced Standards; the obtaining of privileges to use a professional society or university library; or joining together with other municipalities to create a cooperative library; and

WHEREAS, MEMBER wishes to continue or to begin to administer and enforce the State Construction Code throughout its jurisdiction and has considered its options to provide such "Referenced Essential Standards"; which options were deemed unavailable or unsuitable for MEMBER's access needs; and

WHEREAS MEMBER wishes to continue or to begin to administer and enforce the State Construction Code throughout its jurisdiction; however the obtaining of such Referenced Essential Standards by the MEMBER on its own is economically unfeasible; and

WHEREAS MEMBER wishes to continue or to begin to administer and enforce the State Construction Code throughout its jurisdiction; however, the provision of space in which to locate such essential referenced standards is impractical; and

WHEREAS MEMBER wishes to continue or to begin to administer and enforce the State Construction Code throughout its jurisdiction in order to provide local inspectors and plan reviewers which is deemed to provide more timely service than the utilization of state inspectors with broader territories; and

WHEREAS such Essential Referenced Standards are not available in a public library; and

WHEREAS such Essential Referenced Standards are not available via professionals or professional societies; and

WHEREAS, in order to be permitted to continue to administer and enforce the State Construction Code, the MEMBER must provide "access". Having exhausted other suggested means of access to "Essential Referenced Standards" MEMBER wishes to participate in and join the "Southwest Michigan Construction Code Essential Standards Library" which is a cooperative effort between MEMBERs to provide access to a library of Essential Referenced Standards under the terms and conditions set forth herein, which library is to be known and referred to as "SWMICCL"; and

WHEREAS, MCL 124.504 provides that any municipality in the state may exercise jointly any power, privilege or authority that it may otherwise exercise separately. MEMBER is a municipality in the State of Michigan.

WHEREAS, MEMBER believes it is in the best interest of the public health, safety and welfare to engage in intergovernmental cooperation in order to maximize resources, reduce costs, and maintain the level of services provided by local inspectors to citizens by allowing for the implementation of the SWMICCL; and by combining resources to provide its building officials and plan reviewers access to the Essential Standards at the SWMICCL.

NOW THEREFORE, in consideration of the respective representations and agreements contained herein, MEMBER agrees as follows:

**SECTION 1. DEFINITIONS.** The following terms, whenever used in this Agreement, shall have the following meanings, unless the context shall indicate another or different meaning.

"AGREEMENT" means this Joint Agreement for the Creation of an Essential Standards Construction Code Library.

"MEMBER" means the Village of Colon, St. Joseph County, Michigan.

"MEMBERSHIP FEE" means the initial cost to belong to the SWMICCL. The membership fee is a one-time fee to belong to the SWMICCL. The membership fee is \$3,000.00. Each MEMBER to this agreement shall provide the Membership Fee to be deposited into the SWMICCL ACCOUNT as enumerated herein. The Membership Fee shall be added to the other Membership Fees and accumulated in the SWMICCL ACCOUNT. It is anticipated that the MEMBERSHIP FEE, when accumulated in the SWMICCL ACCOUNT shall be sufficient to cover the initial \$30,000 anticipated outlay for essential standards, as well as the costs of creating the library space, the key-card access, the provision of equipment, this agreement and the operational expenses of the library for the foreseeable future. The same MEMBERSHIP FEE will be charged to each MEMBER regardless of when it joins. If the SWMICCL ACCOUNT is depleted to the extent that it cannot cover anticipated expenses for the following year, the ANNUAL REPORT shall provide a projection of estimated additional necessary funds. The STEERING AND OVERSIGHT COMMITTEE shall bill each MEMBER an equal amount of necessary funds in order to replenish the account.

"BUILDING OFFICIAL" means the appointed building, mechanical, electrical and plumbing inspector(s) and official(s), if any, for the MEMBER.

"MEMBERSHIP BENEFITS" means those benefits, including "access" as defined by the CCB which are enumerated in this agreement.

"STEERING AND OVERSIGHT COMMITTEE" is a committee created by this document consisting of two co-administrators of the library; and the Mottville Township Treasurer. Members of the Steering and Oversight Committee are not paid. If a co-administrator is unable or unwilling to serve, the remaining members of the steering and oversight committee shall appoint another co-administrator, who shall be a building official or zoning administrator from a MEMBER municipality that has the ability to physically access the SWMICCL for member municipal units and who has the ability and desire to perform the duties required of a co-administrator of the library. If the Mottville Township Treasurer is unwilling or unable to serve, the remaining steering committee members shall appoint a municipal treasurer from a nearby MEMBER municipality to the steering and oversight committee, which municipal treasurer shall serve the functions of the Mottville Township Treasurer as enumerated herein.

"CO-ADMINISTRATORS OF THE LIBRARY" shall mean Doug Kuhlman and Mike Alwine, or a successor of either of them as appointed in accordance with the above paragraph.

"SWMICCL ACCOUNT" means a separate account to be opened and maintained in a federallyinsured bank by the Mottville Township Treasurer, which account shall be used to accumulate the membership fees and pay the costs for the obtaining and maintaining of the Essential Standards Library.

"SWMICCL FUNDS" means the membership fees that are accumulated in the SWMICCL Account. It is understood that the membership fee is intended to be accumulated with that of the other members and that the SWMICCL funds shall be utilized to pay for the Essential Standards Library, the renovation and equipment costs and the maintenance and operation fees for the SWMICCL Library.

"MEMBERSHIP LIST" shall mean a list of all members of the SWMICCL.

"ANNUAL REPORT" shall be a report provided by the Steering and Oversight Committee to each MEMBER on the membership list. It shall contain a list of members, an analysis of the SWMICCL ACCOUNT including income, expenses and fund balance. It shall provide an access analysis from the key-cards. The annual report shall be provided to MEMBER during the month of September each year. The annual report shall contain a projected operating expense cost for the following year. If additional funds are necessary to replace books or machinery or to provide maintenance or repair to the library, the annual report shall provide a projection as to the amount required and the STEERING COMMITTEE shall bill each member a fractional share of the projected additional funds needed. (IE if there are ten members and \$900 is needed, each member will be billed \$90.00).

### **B. LIBRARY AGREEMENT**

**SECTION 1. LOCATION.** The SWMICCL shall be located in the Mottville Township, St. Joseph County Michigan Hall at 68596 Thomas Street, White Pigeon, Michigan. The Township Hall is located in a former school and it has the space to provide the library and access to MEMBERS.

SECTION 2. PHYSICAL CONFIGURATION OF LIBRARY AND SECURITY. The SWMICCL shall be physically located in a reconfigured area of the Mottville Township Hall. A separate exterior access shall be provided from the outside of the building into the SWMICCL. A key-card access to the SWMICCL shall be implemented. A key card shall be provided to each MEMBER building official by a co-administrator. The SWMICCL shall be accessible from the outside entrance 24 hours a day, seven days a week. The key-card access shall record each access to the library. A copy machine and fax machine will be located in the library, as well as a conference table. The documents contained in the library shall not leave the library. Any building official that removes a library document is responsible for the replacement thereof at no cost to the SWMICCL. The SWMICCL shall have a separate heating and air conditioning system. Mottville Township does not intend to charge heat and electrical costs to the library. However, in cases of extreme weather conditions, Mottville Township may request some reimbursement from the SWMICCL for such heating and cooling costs that are attributable to the library space.

The co-administrators shall be responsible for the maintenance of current essential standards in the library. If standards change or are updated, the co-administrators shall obtain the most current necessary standard and shall provide it in the library. Costs to obtain essential standards shall be paid from the SWMICCL account. MOTTVILLE TOWNSHIP has agreed not to charge rent to the SWMICCL for use of this space and agrees to allow the renovations required by this agreement in order to permit the library to be housed at the Township Hall and accessed via outside key-card system.

SECTION 3. DUTIES OF CO-ADMINISTRATORS. The co-administrators shall obtain the Essential Standards and provide for their location in the SWMICCL. The co-administrators shall provide key-cards to each member building official. The co-administrators shall arrange for the physical location and security of the library, including overseeing all configurations and/or renovations necessary to create the outside access. The co-administrators shall ensure that a conference table, copy machine and fax machine are provided in the library. The coadministrators shall provide each building official with a current cellular telephone number and an email address. A building official who needs access to a document in the SWMICCL shall first attempt to obtain such record by physically entering the library. If the physically obtaining of a document is not possible, the building official shall contact one of the coadministrators, shall identify the document that is needed and shall request that the coadministrator access the library and provide the document via fax, email or US mail. If large documents are required to be mailed, the Member shall be responsible for the mailing costs. The co-administrators shall ensure the physical security of the library and shall provide access reports to MEMBERS with the ANNUAL REPORT. The co-administrators shall receive no pay for these services.

**SECTION 4. DUTIES OF MOTTVILLE TOWNSHIP TREASURER.** The Mottville Township Treasurer shall open the SWMICCL account in a local FDIC-insured bank. The Mottville Township Treasurer shall accumulate the membership fees in the account. The Mottville Township Treasurer shall pay for essential standards from the account, upon presentation of a bill by a co-administrator and certification that such essential standard has been ordered or received. The Mottville Township Treasurer shall pay for the renovations and equipment to create the library from the SWMICCL Account. The Mottville Township Treasurer shall not comingle SWMICCL funds with Mottville Township funds. The Mottville Township Treasurer shall reconcile the SWMICCL account on at least a quarterly basis. The Mottville Township Treasurer shall provide an analysis of the account in the annual report. The Mottville Township Treasurer shall provide the balance of the account, shall project necessary funds for the following year and shall determine, with the assistance of the rest of the oversight committee whether additional funds will be needed to cover expenses. SECTION 5. ACCESS. Each MEMBER's building official(s) shall have physical access to the library via key-card and outside entrance. Each MEMBER's building official(s) shall be permitted to utilize the books, standards and equipment in the library. The building official(s) shall not remove any essential standards from the library. A MEMBER building official serving a non-member municipality shall not have access to the library for non-members. A MEMBER building official shall return all materials and other items to their original location. Any damage to any materials or equipment shall be reported to one of the Co-Administrators. If a verbal damage report is initially made, a written report shall follow explaining the damage and an explanation as to how such materials or equipment was damaged. Other than failure by normal wear and tear, damages caused by misuse or other reason shall be the responsibility of the MEMBER for replacement costs to SWMICCL.

**SECTION 6. CERTIFICATION OF ACCESS.** The co-administrator shall provide certification of membership to any member on the membership list and/or to the State of Michigan CCB upon request. If the membership fee has not been paid, certification will not be provided.

## C. ADDITIONAL TERMS

SECTION 1. SEVERABILITY. In the event any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, the invalid or unenforceable provision shall be severed from the remaining provisions of this Agreement which shall remain in full force and effect.

SECTION 2. PROHIBITION ON TRANSFER. Membership in the SWMICCL is non-transferrable. The MEMBERSHIP FEE is not refundable if a MEMBER wishes to forgo its membership status. Unspent portions of the MEMBERSHIP FEE shall be refunded on a pro-rata basis in the unlikely event that the library is deemed to be unnecessary before the essential code standards are fully accumulated.

SECTION 3. COUNTERPARTS. This Agreement is intended to be executed by each MEMBER. Upon execution of this AGREEMENT and payment of the MEMBERSHIP FEE, the individual agreements shall be considered combined as one joint agreement.

SECTION 4. AMENDMENT. Any amendment of modification of the terms and provisions herein must be made in a mutually signed writing, dated and approved by the MEMBER and the STEERING AND OVERSIGHT COMMITTEE.

SECTION 5. GOVERNING LAW. This Agreement shall be construed in accordance with Michigan law. **SECTION 6. ENTIRE AGREEMENT.** This Agreement constitutes the entire agreement between the parties as it relates to the subject matters expressly set forth in this Agreement. Unless otherwise indicated in this Agreement, there are no other agreements, guarantees, promises or other understandings with respect to the subject matter of this Agreement.

SECTION 7. NO BENEFIT TO OTHERS. The terms, representations, covenants and agreements contained in this Agreement are for the sole benefit of the parties to this Agreement and shall not be construed as conferring any rights to any other persons or entities.

IN WITNESS WHEREOF, the MEMBER hereto, by action of its governing body, has caused this Agreement to be executed by their duly authorized officers.

Dated: 2015

Dated: 2015

Colon Village Thómas Tenney, President

urt Kuhlmann, Clerk

## STATE OF MICHIGAN ) COUNTY OF ST. JOSEPH )

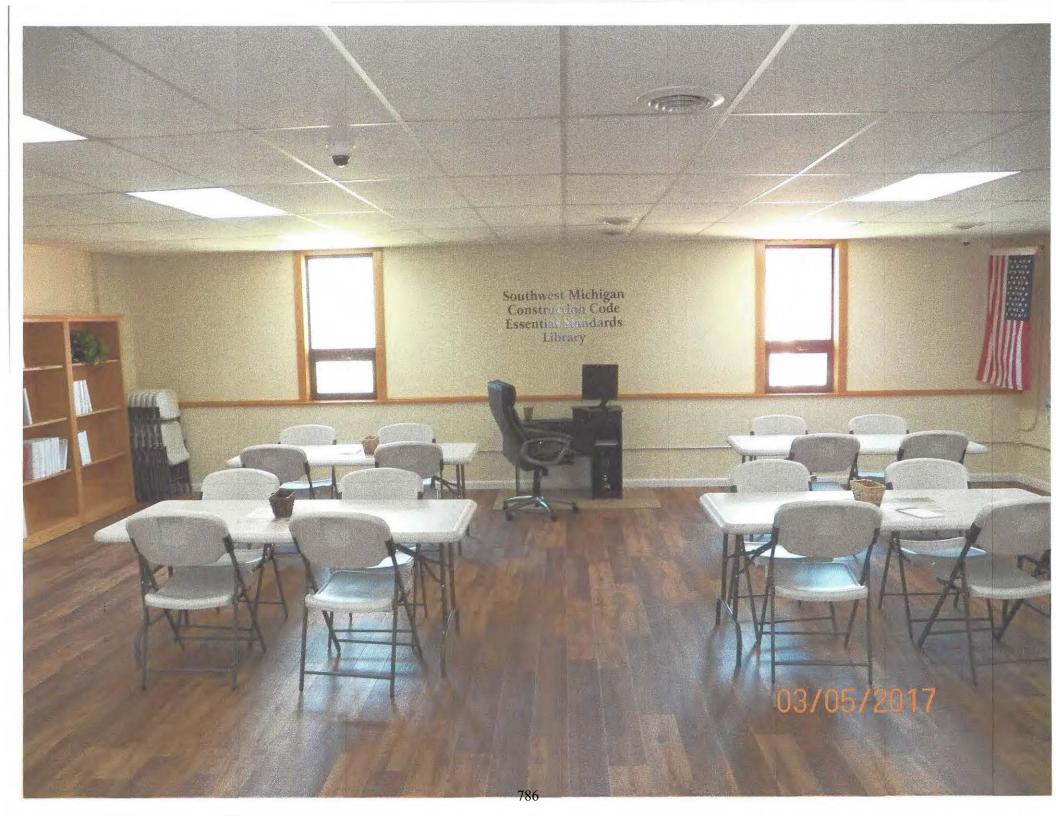
Before me, a Notary Public, came Thomas Tenney and Kurt Kuhlmann, known to me to be and the same are the elected Supervisor and Clerk respectively, for Colon Village, St. Joseph County, Michigan, who swore on oath and indicated that they signed the within document at the direction of and under the authority of the Village Board of Colon Village on this <u>IU</u> day of <u>JUDUUR</u>, 2015 in their respective official capacities.

Notary Public County, Michigan My Commission Expires:

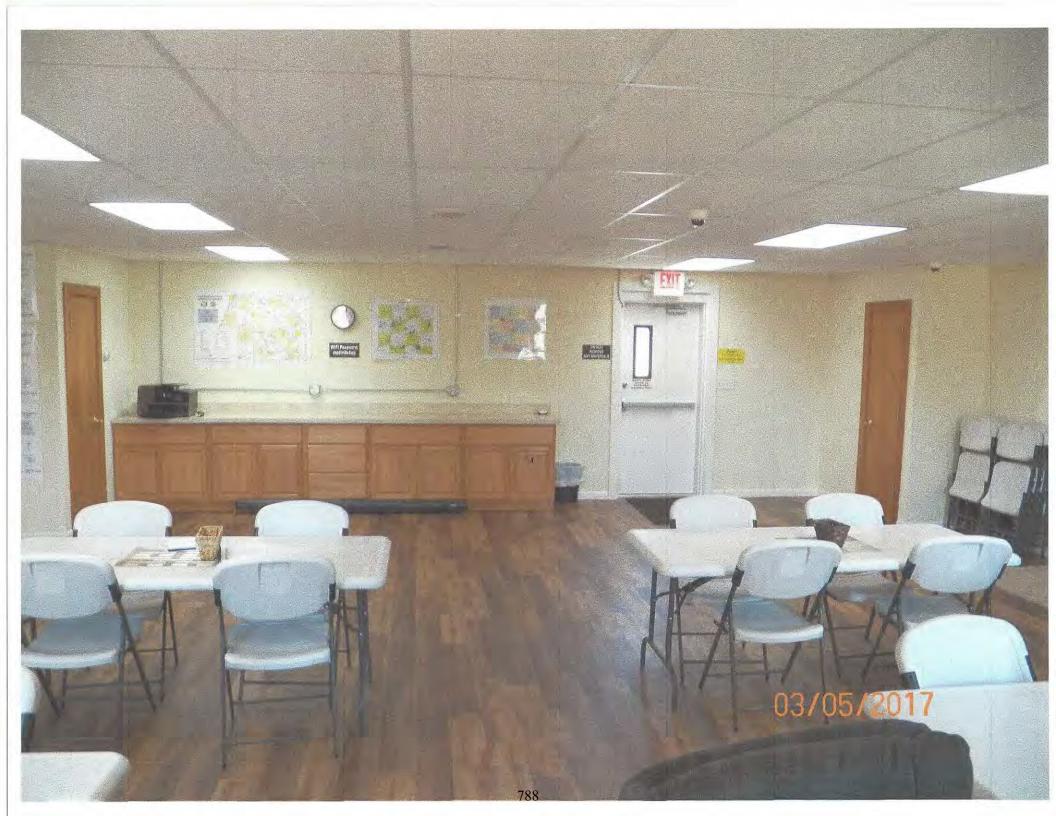
# Southwest Michigan Construction Code Essential Standards Library

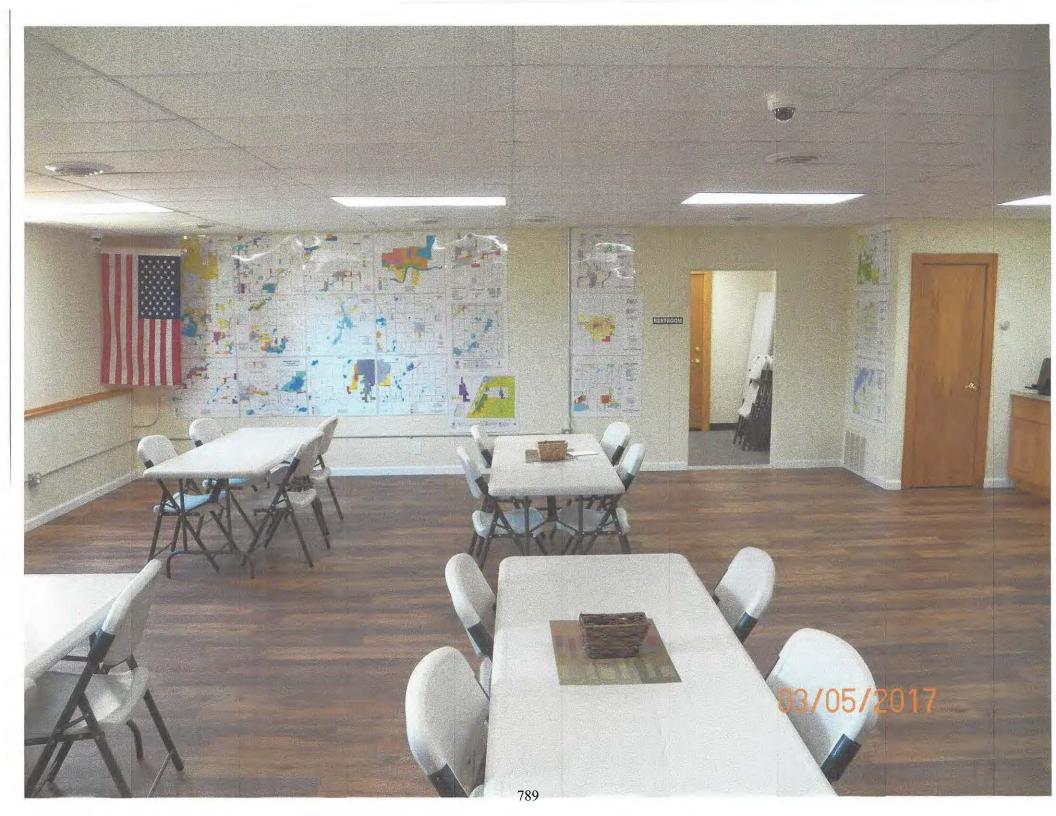
75/06/2017











### Application to Administer and Enforce

Michigan Department of Licensing and Regulatory Affairs

Bureau of Construction Codes / Office of Administrative Services

P.O. Box 30254, Lansing, MI 48909

517-335-2972

E-Mail: bccoas@michigan.gov

www.michigan.gov/bcc

Authority: 1972 PA 230 Penalty: Failure to provide the information may	result in denial of your request.		equal opportunity employer/pro		ds, services and other reasonable disabilities.
NAME OF GOVERNMENTAL SUBDIVISION		CON	TACT PERSON (Elected Offici	al)	
Village of White Pigeon			se Tyler Royce, V	Ilage Presid	lent
ADDRESS (Street Number and Name)				9	
103 S Kalamazoo St., PO Box 6	521				
СПТҮ	COUNTY	COUNTY		STATE	ZIP CODE
White Pigeon	St. Joseph			MI	49099
TELEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include A	Area Code)	E-MAIL ADDRES		
(269) 483-7044	(269) 483-7323	3	whitepiged	onvillagecler	k@comcast.net
Code Adoption			altri - ja		
To assume responsibility for the 1972 PA 230. Attach a copy of of the act and the code.					
State Code(s) to be Enforced					
🗹 Building	Electrical		Mechanical		
<ul> <li>Agency personnel are provided</li> <li>Administrative services are provided</li> <li>Plan review services are provid</li> <li>Timely field inspection services</li> <li>A Board of Appeals is in place p</li> <li>Have immediate access to the provided</li> </ul>	vided. ed. will be provided. per MCL 125.1514.	h you have app	lied to administer &	enforce.	
BUILDING OFFICIAL INFORMATION Name: F	Randy Schmeling	12	Regis	tration Num	ber: 005637
Certification					
I certify the information given in Name of Elected Official (Type or I Signature of Elected Official ()	10110-7	lister and enfo	rce is true and accu	3-1	best of my knowledge. 2-17 kg. Prec. derat

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau of Construction Codes for review and final approval prior to implementation by local departments of building safety.

BCC-246 (Rov. 03/15)

Application to Administer and Enforce

## Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services

P.O. Box 30254, Lansing, MI 48909

517-335-2972 E-Mail: LARA-BCC-Licensing@michigan.gov

www.michigan.gov/bcc

			LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonat accommodations are available upon request to individuals with disabilities.			
NAME OF GOVERNMENTAL SUBDIVISION Village of White Pigeon			CONTACT PERSON (Elected Official) Jesse Tyler Royce			
ADDRESS (Street Number and Name) 103 S Kalamazoo St. P	0 Box 621					
White Pigeon	St J	oseph			STATE MI	ZIP CODE 49099
ELEPHONE NUMBER (Include Area Code) 269-483-7044		269-483-7323 whitep			igeonvillageclerk@ st.net	
Act. If only requesting authority to enf Section 4(2) of the Act, please list the By checking the boxes below you are	part or parts for a	vhich you a	re requestin	g authority.		
Section 4(2) of the Act, please list the	e part or parts for v certifying the requir ordinance n budget ng documents tion notices, certific nspections, etc.	which you a red docume cates of occu	re requestin ents are attac upancy, stop	<b>g authority</b> . <b>:hed.</b> work orders, e	I) of the Act a	

Certification	
I certify the information given in this application to administer and enforce is tr	rue and accurate to the best of my knowledge
Name of Elected Official (Type or Print) Jesse Tyler Royce	President
	3-15-17 Date

BCC-246 (Rev. 02/17)

## VILLAGE OF WHITE PIGEON

## ORDINANCE NO. 17-03-15

## ENFORCING AGENCY ORDINANCE

## ADOPTED: March 15, 2017

### EFFECTIVE: April 1, 2017

An ordinance to designate an enforcing agency to discharge the responsibility of the Village of White Pigeon, St. Joseph County, under the provisions of the State Construction Code Act (Act No. 230 of the Public Acts of 1972, as amended.)

## THE VILLAGE OF WHITE PIGEON

### ST. JOSEPH COUNTY, MICHIGAN

### ORDAINS:

The Village of White Pigeon ordains:

**Section 1.** ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), Village of White Pigeon hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building Code, Michigan Electrical Code, Michigan Mechanical Code and The Michigan Plumbing Code. The Village of White Pigeon shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

Section 2. REPEALS. All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

Section 3. PUBLICATION. This ordinance shall be effective after legal publication and in accordance with the provisions of the Act governing same.

The foregoing Ordinance was offered by Royce and supported by Wagaman, the voting being as follows:

Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman

No: none

Abstain: none

Absent: none

Ordinance declared adopted

Maria C Spencer, Village Clerk

Date: March 15, 2017

Attested:

Tyler Royce, Village President

Date: March 15, 2017

# CLERK'S CERTIFICATION

HEREBY CERTIFY that the foregoing constitutes true and correct copy of an Ordinance which was adopted by the White Pigeon Village Council at a regular meeting held pursuant and in full compliance with the Open Meeting Act, being Act 267, Public Acts of Michigan, 1976 and that the minutes of said meeting was kept and will be or have been made available as required by said Act.

Maria C Spencer, Village Clerk

Date:

I further certify that Notice of the above Ordinance was published in the Three Rivers Commercial, Three Rivers, Michigan, on ________

a C. Morden

Maria C Spencer, Village Clerk

# March 15, 2017 Regular Meeting White Pigeon Village Council (Unapproved)

Present: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman Also Clerk Spencer, Chief Burgoyne, Maintenance Bailey, Zoning Administrator Kuhlman

Call to order at 7:00 p.m. by President Royce

Motion by Strawser / Mercer to approve the agenda with the addition of Mrs. Taylor. Yea: All. Motion carried.

Motion by Armstrong / Strawser to approve the minutes of Regular Meeting. Yea: All. Motion carried.

Motion by Royce / Hostetler to approve financial report. Yea: All. Motion carried.

Motion by Hostetler / Mercer to pay bills presented. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.

Old Business:

- 1 Motion by Hostetler / Mercer at 7:14 pm to open public hearing regarding Ordinance No. 17-03-15, Enforcing Agency Ordinance. Yea: All. Motion carried.
- 2 Motion by Armstrong / Strawser at 7:16 pm to close public hearing. Yea: All. Motion carried.
- 3 Motion by Royce / Wagaman to approve Ordinance No. 17-03-15, Enforcing Agency Ordinance. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.
- 4 Motion by Strawser / Hostetler to have Randy Schmeling do the rental inspections for the Village. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser. Wagaman. Nay: none. Motion carried.
- 5 Motion by Armstrong / Strawser to approve Resolution No. 3-15-17, a Resolution regarding marijuana facilities authorized by PA 281 of 2016. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.
- 6 Motion by Mercer / Wagaman to send both DPW workers to seminar on asset management program and rate study on May 24 – 25 and for them to stay overnight at a cost not to exceed \$2,000. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.

7 Motion by Strawser / Hostetler to purchase Rycom utility locator from Batco, Inc at a cost of \$2,610. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.

New Business:

- 1 Motion by Royce / Wagaman to purchase mosquito spray as needed. Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.
- 2 Motion by Strawser / Armstrong to approve White Pigeon Days as July 7 9, 2017. Yea: All. Motion carried.
- 3 Motion by Astling / Hostetler to close US 12 for the Memorial Day Parade and the White Pigeon Day Parade. Yea: All. Motion carried.
- 4 Motion by Royce / Strawser to close US 12 on July 8, 2017 from 7:00 am 3:00 pm for car show during White Pigeon Days. Roll call vote requested. Roll call vote: Yea: Armstrong, Astling, Mercer, Royce, Strawser, Wagaman. Nay: Hostetler, Motion carried.
- 5 Motion by Armstrong / Strawser to continue using Sturgis Bank as the financial institute for the Village. Yea: All. Motion carried.
- 6 Motion by Royce / Hostetler to transfer \$20,000 of Act 51 funds from Major Streets to Local Streets. Yea: All. Motion carried.
- 7 Concerns regarding trash cans on edge of road. Tabled.
- 8 Motion by Hostetler / Strawser for the Village to contribute 6% of employees' salary to retirement fund for the 2017-2018 budget year. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.
- 9 Motion by Royce / Strawser to appoint Hostetler and Mercer to the White Pigeon Parks and Recs. Board, representing the Village. Yea: All. Motion carried.
- 10 Motion by Hostetler / Royce to amend the 2016-2017 budget as presented. Roll call vote: Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay; none. Motion carried.
- 11 Motion by Strawser / Mercer at 8:21 pm to open public hearing regarding 2017-2018 budget. Yea: All. Motion carried.
- 12 Motion by Strawser / Hostetler at 8:25 pm to close public hearing. Yea: All. Motion carried.
- 13 Motion by Astling / Strawser to approve 2017-2018 budget as presented. Roll call vote:

Yea: Armstrong, Astling, Hostetler, Mercer, Royce, Strawser, Wagaman. Nay: none. Motion carried.

Public Participation: none.

Committee Reports:

Chief Burgoyne reports 114 complaints and 31 citations for the month of February compared to 87 complaints and 28 citations for February 2016.

Motion by Armstrong / Mercer to adjourn meeting at 8:49 pm. Yea: all. Motion carried.

Posted by law on 3/16/17 Village Hall White Pigeon Twp. Library White Pigeon Post Office

Village Clerk Maria C. Spencer

### NOTICE OF ADOPTION OF ORDINANCE

#### VILLAGE OF WHITE PIGEON

#### ST. JOSEPH COUNTY, MICHIGAN

# TO: THE RESIDENTS AND PROPERTY OWNERS OF THE VILLAGE OF WHITE PIGEON AND ANY OTHER INTERESTED PERSONS.

### PLEASE TAKE NOTICE:

At the Regular March 15, 2017, White Pigeon Village Council Meeting, Council Members approved Ordinance No. 17-03-15, an ordinance to designate an enforcing agency to discharge the responsibility of the Village of White Pigeon, St. Joseph County, under the provisions of the State Construction Code Act (Act No. 230 of the Public Acts of 1972, as amended.)

ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), Village of White Pigeon hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building Code, Michigan Electrical Code, Michigan Mechanical Code and The Michigan Plumbing Code. The Village of White Pigeon shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

This ordinance will take effect April 1, 2017 or when approved by the State of Michigan, whichever is later. Copies are available at the Village Office.

Maria C. Spencer, Village Clerk

#### Application to Administer and Enforce Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254, Lansing, MI 48909 517-335-2972

E-Mail;	LARA-BCC-Licensing@michigan.gov
	www.michigan.gov/bcc

Penalty: Failure to provide the information may result in denial		opportunity employer/prog e available upon request to		ds, services and other reasonabl disabilities.	
VAME OF GOVERNMENTAL SUBDIVISION	CONTACT PERSON (Elected Official)				
Village of Marcellus	Ronal	d Welburn			
ADDRESS (Street Number and Name)					
177 E. Main Street					
CITY	COUNTY			STATE	ZIP CODE
Marcellus	Cass			MI	49067
ELEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include Area	a Code)	E-MAIL ADDRESS		1
269-646-5485	269-646-0065		clerk@vil	lageomarc	cellus.org
Section 4(2) of the Act, please list the part By checking the boxes below you are certify Copy of the certified adopted ordina Copy of the proposed program budg drafts of proposed public facing do	ing the required d nce get cuments	ocuments are at	tached.		
By checking the boxes below you are certify ☑ copy of the certified adopted ordina ☑ copy of the proposed program budg	ing the required d nce get cuments lotices, certificates tions, etc.	ocuments are at	tached. op work orders, et		

Certification	
I certify the information given in this application to administer and enforce is true	and accurate to the best of my knowledge
Name of Elected Official (Type or Print) Ronald Welburn	Title Village President
Signature of Elected Official Ronald Elitelburn	Date MARCH 14, 2017
BCC-246 (Rev. 02/17)	

### VILLAGE OF MARCELLUS

## COUNTY OF CASS, STATE OF MICHIGAN

#### **ORDINANCE NO. 225**

#### ENFORCING AGENCY ORDINANCE

#### ADOPTED: March 14, 2017

#### EFFECTIVE: March 23, 2017

An ordinance to designate an enforcing agency to discharge the responsibility of the Village of Marcellus, Cass County, under the provisions of the State Construction Code Act (1972 PA 230, as amended; and repealing all Ordinances and parts of Ordinances in conflict or inconsistent therewith)

THE VILLAGE OF MARCELLUS ORDAINS:

Section 1. PURPOSE. The purpose of this Ordinance is to designate an enforcing agency to discharge the responsibility of the Village of Marcellus, Cass County, under the provisions of the State Construction Code (1972 PA 230) as amended.

Section 2. ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), Village of Marcellus hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building Code, Michigan Electrical Code, Michigan Mechanical Code and The Michigan Plumbing Code. The Village of Marcellus shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered/licensed in accordance with 1986 PA 54.

Section 2. REPEALS. All ordinances, parts of ordinances in conflict or inconsistent with the provisions of this ordinance are hereby repealed.

Section 3. EFFECTIVE DATE. This ordinance shall be effective after legal publication and in accordance with the provisions of the Act governing the same on March 23, 2017;

Section 4. SEVERABILITY Should any portion, sentence, paragraph, clause, phrase or word of this Ordinance be declared unconstitutional, illegal, or of no force or effect by a court of competent jurisdiction, such decision or judgment shall not affect the validity of the remaining portions thereof which shall continue to remain in full force and effect.

Section 5. PUBLICATION. This Ordinance shall be published once, in summary form or in full, in *The Marcellus News*, a newspaper of general circulation within the boundaries of said Village and qualified under State law to publish legal notices, within 15 days of its adoption. The same shall be recorded in the Ordinance Book of said Village and such recording authenticated by the signatures of the Marcellus Village President and the Marcellus Village Clerk.

Village of Marcellus

Concell Elis ela

Ronald Welburn Marcellus Village President

toph St. Aspada

Jacqueline A. LaBudie Marcellus Village Clerk

**Certification**: I hereby certify that the foregoing is a true and complete copy of Ordinance No. 225, being an "Enforcing Agency Ordinance", adopted by the Village Council of the Village of Marcellus, County of Cass, State of Michigan, at a regular meeting held on March 14, 2017; the original of which is on file in my office and available to the public. Public Notice of said meeting was given pursuant to and in compliance with the Open Meetings Act, including, in the case of a special or rescheduled meeting, notice by posting at least 18 hours prior to the time set for said meeting. That ordinance was published in summary form or in full in *The Marcellus News* on March 23, 2017.

Dated: March 14, 2017

anta. LaBudi

Jacqueline A. LaBudie Marcellus Village Clerk

# Application to Administer and Enforce

Michigan Department of Licensing and Regulatory Affairs

Bureau of Construction Codes / Office of Administrative Services

P.O. Box 30254, Lansing, MI 48909

517-335-2972

E-Mail: LARA-BCC-Licensing@michigan.gov

www.michigan.gov/bcc

Ithority: 1972 PA 230 enalty: Failure to provide the information may result in	denial of your request.		available upon request	gram. Auxiliary aid to Individuals with d	
ME OF GOVERNMENTAL SUBDIVISION		CONTACT F	ERSON (Elected Officia	0	
Village of Centrevi DRESS (Street Number and Name)	lle	Kei-	th She	ars	
	+				3
221 N Main Stree	COUNTY			STATE	ZIP CODE
	CI 7	- 1.			110 4
Lentreville	ot. Jos			MI	49032
LEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include Area Co	ode) 1	E-MAIL ADDRESS	S	
69-467-4855	269-467-4	010			
dministration and enforcement of 19/	2 PA 230 (the Act) and the				
Act. If only requesting authority to enfo Section 4(2) of the Act, <b>please list the</b>	prce a part of the state cod part or parts for which y	le as defined in /ou are request	Section 2(a)(1)(l) ing authority.		
<ul> <li>Administration and enforcement of 197</li> <li>Act. If only requesting authority to enfo</li> <li>Section 4(2) of the Act, please list the</li> <li>By checking the boxes below you are on the copy of the certified adopted on the proposed program of the proposed program drafts of proposed public facing permits, correction/viola drafts of proposed fees permits, plan reviews, in</li> <li>A representative of the govern</li> </ul>	part or parts for which y part or parts for which y certifying the required doo ordinance budget ing documents tion notices, certificates of inspections, etc.	te as defined in you are request cuments are at foccupancy, sto	Section 2(a)(1)(l) t <b>ing authority</b> . t <b>ached.</b> p work orders, e	) of the Act a	nd as provided for in

Certification	
I certify the information given in this application to administer and enforce is tr	ue and accurate to the best of my knowledge
Name of Elected Official (Type or Print) Keith Shears	Title President
Signature of Elected Official	Date 2-21-17

BCC-246 (Rev. 02/17)

# VILLAGE OF CENTREVILLE

ORDINANCE NO. 201

# ENFORCING AGENCY ORDINANCE

ADOPTED: February 21, 2017

EFFECTIVE: February 21,2017

An ordinance to designate an enforcing agency to discharge the responsibility of the Village of Centreville, St. Joseph County, under the provisions of the State Construction Code Act (Act No. 230 of the Public Acts of 1972, as amended.)

# THE VILLAGE OF CENTREVILLE

# ST. JOSEPH COUNTY, MICHIGAN

# ORDAINS:

The Village of Centreville ordains:

**Section 1.** ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), Village of Centreville hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building Code, Michigan Electrical Code, Michigan Mechanical Code and The Michigan Plumbing Code. The Village of Centreville shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

Section 2. REPEALS. All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

**Section 3.** PUBLICATION. This ordinance shall be effective after legal publication and in accordance with the provisions of the Act governing same.

Adopted this	2157	day of	February	, 2017

hiddister Signed: Marty Chiddister

Clerk of the Village of Centreville

Date: <u>2-21</u>, 2017

Attested:

Signed;

Keith Shears Village President of the Village of Centreville

Date: <u>2-21-</u>, 2017

# Centreville Village St. Joseph County

# Procedures for administration, and enforcement of the codes

- 1. Permit applications are reviewed and approved by the applicable designated Inspector. Permits shall not be issued until approved, and any zoning questions are resolved by the Centreville Village Zoning Administrator.
- 2. As plans are reviewed any violations are identified and resolved prior to issuance of the permit.
- 3. Permits are issued in writing by the Office of the Inspector. Files are maintained in the Building Inspection Department of the Centreville Village Office.
- 4. Inspections may be scheduled at the time the permit is issued. Findings are noted in the records of the Inspector.
- 5. Code violations are identified to the owner/contractor and must be corrected prior to the completion of the project.
- 6. Records are maintained for each permit. The files are maintained in the Building Inspection Department of Centreville Village .
- 7. Final Approvals are issued by the Inspectors, and the Building Official issues all certificates of occupancy. All files are maintained at the Building Inspection Department at Centreville Village .

# Village of Centreville St. Joseph County

Procedures for the Construction Board of Appeals

- 1. Appeals must be in writing to the Board Chair. If an appeal is addressed to the Village President, it shall promptly be referred to the Chair of the Appeals Board. A separate file is to be maintained for each appeal.
- 2. A hearing is scheduled as soon as possible, but not more than 25 days following receipt of an appeal. Notice is given to all interested parties by first class mail with 10 days notice before the hearing.
- 3. Appeals are heard by a quorum of the Construction Board of Appeals.
- 4. The final decision of the Board is reduced to writing and sent to the applicant within 5 days after Board decision is reached.
- 5. Records of the appeal and its disposition are maintained on file in the Building Inspection Department of the Village of Centreville.

**Application to Administer and Enforce** 

Michigan Department of Licensing and Regulatory Affairs

Bureau of Construction Codes / Office of Administrative Services

#### P.O. Box 30254, Lansing, MI 48909

517-335-2972 E-Mail: LARA-BCC-Licensing@michigan.gov www.michigan.gov/bcc

Penalty: Failure to provide the information may resu	LARA is an equal opportunity employer/program. Auxiliary aids, services and other reasonal accommodations are available upon request to individuals with disabilities.				
NAME OF GOVERNMENTAL SUBDIVISION		CONTACT	PERSON (Elected Official)		
Volin		G	wenn Joh	inson	
ADDRESS (Street Number and Name)		and the second s			
50357 De	catur Rd				
CITY	COUNTY		S	TATE	ZIP CODE
Decatur	Cass			MI	49045
TELEPHONE NUMBER (Include Area Code)	FAX NUMBER (Include Are	a Code)	E-MAIL ADDRESS		
269-423-8985				æ)gm	nail.com
Act. If only requesting authority to e Section 4(2) of the Act, please list the By checking the boxes below you are of copy of the certified adopted of copy of the proposed proposed	e certifying the required of ordinance				
Section 4(2) of the Act, please list the By checking the boxes below you are the copy of the certified adopted of copy of the proposed progra	e certifying <b>the required</b> of d ordinance am budget cing documents lation notices, certificates inspections, etc. ernmental subdivision will	of occupancy, st	ttached. op work orders, etc.	ion Code Co	ommission on issues

I certify the information given in this application to administer and enfo	bice is true and accurate to the best of my knowledge
Name of Elected Official (Type or Print) Gwenn Johnson	Title Township Supervisor
A 7.0	)
Signature of Elected Official	Date

BCC-246 (Rev. 02/17)

#### VOLINIA TOWNSHIP

ORDINANCE NO. <u>(330</u>/7

#### ENFORCING AGENCY ORDINANCE

APCH 30 ,2017 ADOPTED: // EFFECTIVE: <u>HORIL</u> 14 , 2017

An ordinance to designate an enforcing agency to discharge the responsibility of the Township of Volinia, Cass County, under the provisions of the State Construction Code Act (Act No. 230 of the Public Acts of 1972, as amended.)

#### THE TOWNSHIP OF VOLINIA

#### CASS COUNTY, MICHIGAN

#### ORDAINS:

The Township of Volinia ordains: -

**Section 1.** ENFORCING AGENCY DESIGNATED. Pursuant to Section 8b(6) of The Stille-DeRossett Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1508b(6), Township of Volinia hereby elects to administer and enforce the 1972 PA 230 and the Michigan Building Code, Michigan Electrical Code, Michigan Mechanical Code and The Michigan Plumbing Code. The Township of Volinia shall also administer and enforce the respective provisions of the Michigan Residential, Rehabilitation, and Uniform Energy Codes and all applicable laws and ordinances. A government official registered in accordance with 1986 PA 54 shall be appointed to receive all fees, issue permits, plan reviews, notices, orders, and certificates of use and occupancy. All personnel performing plan reviews and inspections shall be registered in accordance with 1986 PA 54.

**Section 2.** REPEALS. All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

**Section 3.** PUBLICATION. This ordinance shall be effective after legal publication and in accordance with the provisions of the Act governing same.

Adopted this __________ 

Signed:

Carol Walden Clerk of the Township of Volinia

Date: <u>3-30</u>, 2017

Attested:

Signed: Gwenn Johnson Supervisor of the Township of Volinia

Date: <u>3-30</u>, 2017

#### TOWNSHIP OF VOLINIA

#### APPOINTMENTS TO CONSTRUCTION BOARD OF APPEALS

**SPECIFIC ACTION REQUESTED:** Authorize Supervisor to make appointments to the Construction Board of Appeals

#### DESCRIPTION OF ISSUE:

The Township is the administering and enforcing agency for the State Construction Code. MCL 125.1514 requires an administering and enforcing agency to appoint a "Construction Board of Appeals" for the purposes of hearing and deciding appeals on questions of the State Construction Code, such as the refusal to grant a permit or the denial of a permit.

The Construction Board of Appeals must consist of a minimum of 3 persons, qualified by experience or training to perform the duties of a member of the Board of Appeals. In this respect, it is incumbent upon the Township to appoint individuals that have training in one or more of the Building Trades; or that have municipal building code experience, or both. Employees of the Township cannot serve on the Township Construction Board of Appeals.

MCL 125.1514 provides that the Supervisor shall appoint the members of the Construction Board of Appeals. The members serve for 2-year terms.

We recommend that the Township Supervisor appoint the following individuals to the Township Construction Board of Appeals with two year terms commencing on April 1, 2017, all of whom have agreed to be named and are willing to serve:

Butch Bender – Electrical Contractor Cassopolis, MI 49301

Rich Wheat – Electrical Contractor Three Rivers, MI 49093

Greg Persing – Mechanical and Plumbing Contractor Burr Oak, MI LICENSE#8110541

David Nelson – Mechanical and Plumbing Contractor MI 49091 LICENSE#8002752

Fred Mazzoni – Building Contractor MI 49091 LICENSE#2101132671 (exp 5/31/17)

#### Doug Hopkins – Building Contractor 62969 Fair Road Sturgis, MI 49091 phone 269-508-4260

Proposed Motion: Don Huff

"I move that the Township appoint Butch Bender, Rich Wheat, Greg Persing, David Nelson, Fred Mazzoni and Doug Hopkins to the Construction Board of Appeals effective April 1, 2017, that the Construction Board of Appeals meet only as needed upon application, a fee of \$500 will be charged to the applicant and that each Construction Board of Appeals member be compensated \$100 plus mileage at the current IRS rates for those meetings each appointee attends".

Support by: Lob Casmussen

All in favor:

Gwenn Tomson Loveen Williams Carol Walden Bob Lasmussen Lon. Hutt



# **ROLLIN TOWNSHIP**

730 Manitou Rd. P.O. Box 296 Manitou Beach, MI 49253 Phone: (517) 547-7786

June 5, 2017, 2017

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes/Office of Administrative Services P.O. Box 30254 Lansing, Michigan 48909

### Re: Application to Administer and Enforce (BCC-246)

To Whom It May Concern:

Enclosed is a completed Application to Administer and Enforce (BCC-246) and the required certified copies of the ordinances enacted by the Township of Rollin assuming responsibility for administration and enforcement of the Stille-Derossett-Hale Single State Construction Code Act; Act 230 of 1972. It should be noted that the Township of Rollin had previously assumed responsibility for administration and enforcement of Act 230 for electrical and building years ago and is seeking to assume responsibility for plumbing and mechanical as well.

It is the intent of the Township of Rollin to offer professional and timely field inspection and administrative services within the municipality, as previously demonstrated through the Township's administration and enforcement regarding electrical and building components of Act 230, the Township is qualified by experience or training to administer and enforce plumbing and mechanical components of Act 230 as well as provide employee and/or agency personnel (via contract) as necessary, provide administrative services, provide plan review services, has a Board of Appeals in place and has access to the codes and standards.

As currently is the case with administration and enforcement of the electrical and building components of Act 230, the Township of Rollin intends to provide plumbing and mechanical administration and enforcement via contract and/or employee with qualified, experienced and licensed persons who are currently providing these services for a number of adjacent jurisdictions.

We will provide a package of information and documentation in support of Rollin Township's ability to enforce the added plumbing and mechanical disciplines and sent to you within 10 days. Please let us know if you would like this by mail or email for distributing.

Please contact Irma David or Bruce Nickel if you have any questions about this application or the accompanying documentation.

Sincerely,

ma Nair à Irma David

Township Supervisor Email: rollinsupervisor@comcast.net Office: (517) 547-7786

Saw 21

Bruce Nickel Building Official Email: building.inspector@twp.rollin.mi.us Cell: (517)

JUN 072017 Bureau of Construction Codes

#### Application to Administer and Enforce

Michigan Department of Licensing and Regulatory Affairs

Bureau of Construction Codes / Office of Administrative Services

### P.O. Box 30254, Lansing, MI 48909

517-335-2972	
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E-Mail:	bccoas@michigan.gov
147	usu michigan goulhao

	www.michi	gangu	0000			
Aulhority: 1972 PA 230	Aulhority: 1972 PA 230 LARA is an equal of Penalty: Failure to provide the information may result in denial of your request.					, services and other reasonable sabilities,
Penalty: Failure to provide the information may result in denial of your request.						
NAME OF GOVERNMENTAL SUBDIVISION CONTACT PERSON					)	· · · · ·
Township of Rollin Irma David -					or	
ADDRESS (Street Number and Name)						
730 Manitou Rd. P.O. Box 296						
CITY	COUNTY				STATE	ZIP CODE
Manitou Beach	Lenawee				MI	49253
	NUMBER (Include Area Co	ode)		E-MAIL ADDRESS		
(517) 547-7786 (5	17) 547-4788			rollinsuperv	isor@comc	ast.net
Code Adoption						······································
Pursuant to Section 8b(6) of 1972 PA 230 and the state construction code, as defined of the certified adopted ordinance assur attached.	d in Section 2(a)(1) ning responsibilit	)(I) of :	the Act and a	as provided fo	r in Section 4	4(2) of the Act, a copy
Please list the code or parts thereof to be en	forced.					
Mechanical & Plumbing Codes - Bui	Iding & Electri	cal C	odes are	already be	eing admi	nistered & Enf.
By checking the boxes below you are certifying	the following:		<u> </u>			<u> </u>
The governmental subdivision and the enformand the code and all related acts and rules.	cing agency are qu	alified	by experienc	ce or training t	to administer	and enforce this act
Agency personnel are provided as necesary.						
Administrative services are provided.						
Plan review services are provided.						
Timely field inspection services will be provid	led.					
A Board of Appeals is in place per MCL 125.	1514.					
Have immediate access to the codes & stand	dards for which you	u have	applied to a	dminister & er	nforce.	
						·····
BUILDING OFFICIAL INFORMATION Name: Bruce Nick	el			Registr	ation Numbe	er: 01691
Certification					<u></u>	
I certify the information given in this applica	tion to administer	rand	enforce is tr	ue and accur	ate to the be	est of my knowledge.
Name of Elected Official (Type or Print) $1  au  au$	na David			Title	Super	VISOT
Signature of Elected Official Imma (	David			Date_	5/n]	2017

Copies of all ordinances submitted with this application must include clear and visible identification of the governmental subdivision's department of building safety.

The conduct of the administration and enforcement of the Michigan codes shall be performed in accordance with the approved Application to Administer and Enforce and ordinance. Any changes in the approved ordinance must be submitted to the Bureau approval prior to implementation by local departments of building safety.

BCC-246 (Rev. 05/15)

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JUN 072017 Bureau of

Construction Codes

# State Construction Code Ordinance

An ordinance to assume responsibility pursuant to Act No. 230 of the Public Acts of Michigan of 1972, as amended, for administration and enforcement of said Act as to those portions of the State Construction Code promulgated thereunder consisting of the Michigan Building Code, the Michigan Residential Code, the Michigan Electrical Code, the Michigan Plumbing Code and the Michigan Mechanical Code; to provide for the designation of an enforcement officials hereunder; to provide for a Township Construction Board of Appeals; to permit the Township Board to set certain fees by Resolution of said Township Board; to provide for sanctions for violations of the aforementioned Act and Codes; and to repeal all conflicting ordinances.

#### THE TOWNSHIP OF ROLLIN ORDAINS:

#### SECTION 1. TITLE

This Ordinance shall be known and cited as the Rollin Township State Construction Code Ordinance.

#### SECTION 2. ASSUMPTION OF ADMINISTRATION AND ENFORCEMENT

The Township of Rollin hereby assumes responsibility pursuant to Act No. 230 of the Public Acts of Michigan of 1972, as amended, for administration and enforcement of said Act as to those portions of the State Construction Code promulgated thereunder consisting of the Michigan Building Code, the Michigan Residential Code, the Michigan Plumbing Code, the Michigan Mechanical Code and the Michigan Electrical Code.

#### SECTION 3. ENFORCEMENT OFFICIALS

- a. The officials and inspectors listed in subsection (b) of this section, who shall be designated by Resolution of the Township Board, are hereby specifically authorized to investigate violations of the state construction code, serve notices of violation of the state construction code, issue and serve appearance tickets or uniform law citations as authorized by state statute, appear in court or other judicial proceedings to assist in the prosecution-of-any-code violations, prepare-cases for-prosecution for violations of the state construction code, and perform such other state construction code enforcement duties as may be delegated by the enforcement agency/building official.
- b. The officials and inspectors whose authorities and duties are established in subsection
   (a) of this section are as follows:

1. The building official and deputy building official are authorized to administer and

Bureau of Construction Codes

enforce the Building Code, Residential Code, Electrical Code, Mechanical Code, and Plumbing Code.

- 2. The designated building inspector(s) is/are authorized to enforce the Building Code and Residential Code.
- 3. The designated electrical inspector(s) is/are authorized to enforce the Electrical Code.
- 4. The designated mechanical inspector(s) is/are authorized to enforce the Mechanical Code.
- 5. The designated plumbing inspector(s) is/are authorized to enforce the Plumbing Code.

#### SECTION 4. FEES

The Township Board of the Township of Rollin is authorized to establish by Resolution at any regular public meeting a schedule of fees, rates and charges for the administering of State Construction Code Act, the aforementioned Code sections and this Ordinance, provided that the same are reasonable and bear a reasonable relationship to the cost and expense of such administration and activity. The Township Board shall further have the right to amend the aforementioned Resolution from time to time within the foregoing limits of reasonableness.

#### SECTION 5. PLANS SPECIFICATION

With each application for a building permit, and when required by a designated inspector for enforcement of any provisions of the State Construction Code, two sets of plans and specifications shall be submitted. All plans and specifications shall comply with the provisions of such applicable code and all other applicable state or local regulations.

#### SECTION 6. CONSTRUCTION BOARD OF APPEALS

- a. General. There is established a Construction Board of Appeals (also referred to as a "Building Board of Appeals") of three (3) members appointed by the Township Board as follows:
  - 1. One person who is experienced as a general contractor.
  - 2. One person who is licensed electrician.

- JUN 07 2017 Bureau of Construction Codes
- 3. One person who is a licensed plumber.
- b. *Tenure of Board*. The current members of the Construction Board of Appeals shall continue to serve until the expiration of their current terms. Thereafter, members shall be appointed for terms of three (3) years.

*Duties of the Construction Board of Appeals*. The Construction Board of Appeals shall act as an advisory board to the Township and shall have the following further powers and duties:

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- 1. To provide for reasonable interpretation of the provisions of the Michigan Building Code, the Michigan Residential Code, the Michigan Plumbing Code, the Michigan Mechanical Code and the Michigan Electrical Code.
- 2. Hear and decide appeals from and review any order, requirement, decision and determination made by the Rollin Township Building Official, except the Board of Appeals shall have no authority relative to interpretation of the administrative provisions of the aforementioned Codes, nor shall the Board have the power to waive the requirements of the Codes except as provided below.
- 3. Do acts, make decisions, and make such determinations as authorized or directed by Township Ordinance.
- 4. To grant or approve alternatives from a substantive requirement of the aforementioned Codes if the literal application of the substantive requirement would result in an exceptional, practical difficulty to the applicant, and if both of the following requirements are satisfied:
  - i The performance of the particular item or part of the building or structure with respect to which an alternative is granted shall be adequate for its intended use and shall not substantially deviate from performance required by the Code for that particular item or part for the health, safety and welfare of the people of the Township.
  - ii The specific condition justifying the alternative shall be neither so general nor recurrent in nature as to make an amendment of the Code with respect to the condition reasonably practical or desirable.
- 5. The Construction Board of Appeals is also assigned with the responsibility for interpreting, hearing appeals, approving alternate methods, and making other designated determinations as described above with respect to all other portions of the Michigan Construction Code administered and enforced by the Township.
- d. *Procedure for Appeals*. Appeals from the rulings of any official charged with the enforcement of the aforementioned-Godes-may-be-made to said Board within such time as shall be prescribed by the Township Board. The Appellant shall file with the Building Official and with the Township Clerk a notice of appeal specifying the ground therefore and stating the address of the Appellant. The Building Official shall set the matter for hearing and give due notice thereof to all interested parties. The Construction Board of Appeals shall hear said matter and decide the same not later than thirty (30) days after submission of the appeal. Failure by the Board to hear an appeal and file a decision

JUN 072017

Bureau of Construction Codes

within the time limit is deemed a denial of the appeal for purposes of instituting a. further appeal. The Construction Board of Appeals shall hear said matter and decide the same. Within the limits of its jurisdiction hereinabove described, the Construction Board of Appeals may reverse or affirm, in whole or in part, or may make such order, requirement, decision or determination as in its opinion ought to be made in the premises, and to that end shall have the powers of the official from whom said appeal is taken. The final disposition of such appeal shall be in writing and shall state the grounds therefore and shall be forthwith delivered to the Appellant at his or her last known address. Any person, including the Building Official, may file with the Construction Board of Appeals a request for an interpretation, approval of methods or materials, or any other matter provided for under the powers and duties of the Construction Board of Appeals in the same manner as provided for appeals herein. The Construction Board of Appeals may make such other further procedural rules as shall be necessary to perform its duties and exercise its powers hereunder.

- e. Decisions of the Construction Board of Appeals Finality. An interested person or his authorized agent may appeal a decision of the Construction Board of Appeals to the Michigan State Construction Code Commission in accordance with the provisions of Act No. 230 of the Public Acts of 1972, as amended. In the absence of such an appeal, decisions of the Construction Board of Appeals become effective on the 11th business day after filing of the decision with the Building Official.
- f. *Meeting, Rules of Procedure, Quorum.* The Construction Board of Appeals shall meet at such times as said Board may determine. It may adopt bylaws and rules of procedure covering any matters upon which it may act. The Building Official or such person as he or she shall designate shall serve as secretary of the Construction Board of Appeals and shall keep records of the meetings. The minutes of the meetings shall be in writing, but may state the substance of any matter considered. Any orders shall be set out in full and shall state the grounds of the order in a manner reasonably stated to apprise the Appellant/Petitioner of the basis thereof. The presence of all three (3) members shall be necessary to constitute a quorum. The majority of the members present shall be necessary to decide any question.

### SECTION 7. VIOLATIONS AND PENALTIES

A person who violates any provision of the state construction code for which the township has assumed enforcement responsibility is responsible for a municipal civil infraction for each and -every day that the violation occurs.

#### SECTION 8. SANCTIONS

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a. *Civil Infraction*. A person who violates any provision of the State Construction Code for which the Township has assumed enforcement responsibility is responsible for a municipal civil infraction for each and every day that the violation occurs, punishable by

JUN 072017

Bureau of Construction Codes

a civil fine determined in accordance with the provisions of the Ordinance 34 the Rollin Township Municipal Civil Infractions Ordinance.

b. Other Remedies. In addition to the foregoing, the Township shall have the right to proceed in any court of competent jurisdiction for the purpose of obtaining an injunction, restraining order, or other appropriate remedy to compel compliance with this Ordinance, 1972 PA 230, as amended and/or the aforementioned Codes. Each day that a violation exists shall constitute a separate offense.

### SECTION 9. SEVERABILITY

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Should any part of this Ordinance or the aforementioned Codes being administered and enforced hereunder be declared unconstitutional, illegal or of no force and effect by a court of competent jurisdiction, such portion thereof shall not be deemed to affect the validity of any other part or portion thereof.

# SECTION 10. PUBLICATION AND EFFECTIVE DATE

Publication of this ordinance shall be made by causing a true copy thereof to be inserted once in a newspaper circulating with the Township of Rollin, which insertion shall be made within thirty (30) days after its passage. This ordinance shall take effect immediately upon its publication.

SECTION 11. REPEALER

All ordinances inconsistent with the provisions of this ordinance are hereby repealed.

This ordinance was offered for adoption by the Township Board member Bruce Walker and was supported by Township Board member Marcia Willett, the vote being as follows:

AYES:James Sayre, Bruce Walker, Marcia Willett, Denice Combs, Irma DavidNAYS:NoneABSENT:None

Ordinance declared adopted on May 10, 2017.

Supervisor, Rollin Township

JUN 072017

# CERTIFICATION OF ADOPTION AND PUBLICATION

Bureau of

I, Denice Combs, the duly elected Township Clerk, certify that the foregoing ordinance Was Cocies properly enacted by the township board of the Township of Rollin, Lenawee County, Michigan

on May 10, 2017 and that it was published in the Brooklyn-Exponent on May _3, 2017.

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Denice Lon lo

Denice Combs Clerk, Rollin Township



JUN 072017

Bureau of Construction Codes

#### Resolution No. 2017-16

#### State Construction Code Ordinance

WHEREAS: Act No. 230 of the Public Acts of Michigan of 1972 as amended provides for Townships to assume responsibility for administration and enforcement of those portions related to those portions of the State Construction Code promulgated thereunder consisting of the Michigan Building Code, the Michigan Residential Code, the Michigan Electrical Code, the Michigan Plumbing Code, and the Michigan Mechanical code, and

WHEREAS: Rollin Township wishes to provide for the designation of enforcement officials thereunder as well as to provide for a Township Construction Board of Appeals, and

WHEAREAS: Rollin Township wishes to set fees for this activity, and

WHEREAS: Rollin Township wishes to provide for sanctions for violations of the aforementioned Act and Codes and to real all conflicting ordinances, and

WHEREAS: The Township is required to publish a summary of said ordinance in a paper of general circulation in the Township, the Brooklyn Exponent, and

WHEREAS: Publication of this ordinance will be made within 30 days after its passage and the ordinance shall take effect immediately upon its publication.

NOW, THEREFORE, BE IT RESOLVED that The State Construction Code Ordinance be adopted

BE IT FURTHER RESOLVED that existing Ordinance 10 related to the State Construction Code be repealed

The foregoing resolution offered by Board Member Bruce Walker

Second offered by Board Member Marcia Willett

Upon roll call vote the following voted "aye": Jim Sayre, Bruce Walker, Marcia Willett, Denice Combs, Irma David

"Nay": None

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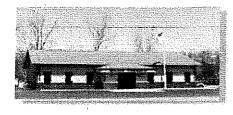
The Supervisor declared the resolution adopted on 5/10/2017

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Denice Combs , Clerk Resolution # 2017-16

JUN 07 2017

Burean of Construction Codes



# **ROLLIN TOWNSHIP**

730 Manitou Rd. P.O. Box 296 Manitou Beach, MI 49253 Phone: (517) 547-7786 Fax: (517) 547-4788

June 16, 2017

Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes / Office of Administrative Services P.O. Box 30254 Lansing, MI 48909

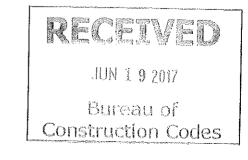
Dianne Barmes & Construction Code Commission:

Enclosed is a re-submission of the application and related ordinance to enforce the Mechanical and Plumbing Codes. Also included is information and documentation supporting our ability to provide an effective and professional administration of the codes.

This information is also being emailed as an attachment. Thank you for your assistance on this matter and please let me know if you have any questions.

Sincerely,

Bruce Nickel Building Official Office: (517) 547-7786 Cell: (517) Email: building.inspector@twp.rollin.mi.us



# **Application Information for Construction Code Commission**

Township of Rollin – Lenawee County Application to Enforce Plumbing & Mechanical Codes Projected Hearing Date - July 12, 2017

The Township of Rollin is a Lake Recreational and Farming Community located within the Irish Hills recreational activity area, Lenawee County. Rollin Township currently enforces the Michigan Building and Electrical Codes and is making application to also enforce the Michigan Plumbing and Mechanical Codes. Rollin, Rome, Cambridge and Franklin Townships and the Village of Onsted, Lenawee County, have an efficient and effective collaboration between municipalities and inspectors to administer and enforce the respective construction codes.

#### **Reason for Application**

The Township of Rollin is making application to enforce the Michigan Plumbing and Mechanical Codes pursuant to Section 8b(6) of 1972 PA230 (the Act), as defined in Section 2(a)(1)(I) of the Act and as provided in Section 4(2) of the Act. The Township would like to include an efficient and effective administration of the Mechanical and Plumbing Codes. Offering this service locally will benefit the property owners and contractors and improve quality, public health and safety.

#### **Program Budget**

The estimated annual budget for administration and enforcement of the Plumbing and Mechanical codes with the Township of Rollin is \$16,700 overall, or \$7200 & \$9,500 respectively.

#### **Provided Documents**

Permits, inspections, inspection results, correction & violation notices, certificates of occupancies, stop work orders are documented and issued through BS&A Building Department and Field Inspection software and computer equipment. The costs of the field inspection equipment and software are shared in collaboration between Townships.

#### **Fee Schedule**

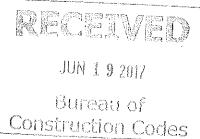
Proposed Plumbing and Mechanical fee schedules are included.

#### **Communications Process**

The local units of government, Lenawee County Health Department, Lenawee County Drain and Road Commissions work together and communicate effectively with the Building Departments to insure public health, safety and welfare along with effective and efficient processes.

#### **Governmental and Enforcing Agency Personnel Registration**

Included are copies of the enforcing personnel current licenses. Each inspector has at least one back-up in case of an unexpected absence and/or vacation.



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# **Application Information for Construction Code Commission**

Township of Rollin – Lenawee County Application to Enforce Plumbing & Mechanical Codes Projected Hearing Date - July 12, 2017

#### **Construction Board of Appeals**

Included is a form indicating the Construction Board of Appeals member, officers and contact information for the (5) five communities they serve.

#### Administrative Personnel and Services Provided

Rollin Township Officials, and administrative personnel, insure compliance and maintenance with FOIA, retention schedules, records and documents. The Township uses and maintains building records, documents and paper trails on BS&A Building Department and Field Inspection software systems. This data, related documents, inspection information and drawings are also electronically stored on a backed up server system.

#### **Processes for Establishing Fees and Variance of Code Process**

Regular meetings occur to review and assess processes and outstanding code concerns and questions. A mid-year and annual review of revenue and expenditures from each discipline will determine the associated fees.

#### Agency Personnel

Each inspector has a back-up to maintain an effective, efficient and timely inspection and/or administrative activity in their absence.

#### **Plan Review and Field Inspection Services**

All disciplines are covered by licensed inspector and plan reviewer. Our goal is to always provide a professional, thorough, timely and documented plan review and inspection service.

#### Access to Codes and Standards

We maintain all codes on site and have access to commentaries at one of the five municipalities that work in collaboration with each other. We also have a subscription and access to MADCAD.com for essential codes, commentaries and standards on-line.

# The administration and enforcement of 1972 PA230 and the State Construction Code, pursuant to Section 8b(6) of the Act.

This Act provides for functions, commissions, authorizations, rules and codes from which to administer, conduct and enforce the respective codes. Section 8b(6) pertains to the process, requirements and rules for local governments electing to enforce the codes on or after December 28, 1999.

Bruce Nickel Building Official Cell: (517) Email: building.inspector@twp.rollin.mi.us



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Project Locati Address (street no.	8 name or Tax ID #)			City/Village	:			County	/
									Lenawee
State	Zip	Has a	Building Permit been o	bbtained for t	nis project	?			
MI			YES 🛛 NO	<b>)</b> [	Not Re	equire	d		
Property Owner Na	ime	E							
Applicant Info	rmation								
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Address (if differen	t from above)		19-19-19-19-19-19-19-19-19-19-19-19-19-1	City				State	Zip
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Homeowner A	Affidavit:				· · · · · · · · · · · · · · · · · · ·				
installed in accorda	nce with the current	State Plumbir		e enclosed, c	overed up,	or put i	nto operatio	n until inspecte	ccupy. All work shall be d and approved by the
Applicant Sign									
			2, 1972 PA 230, MCL 1 k on a residential build						the licensing requirements of ct to civil fines.
Signature								Date	

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# Plumbing Permit Fee Schedule & Information

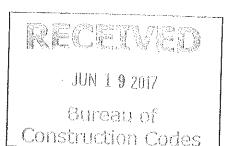
Rollin Township

Rollin Township issues building, electrical, plumbing and mechanical permits. If work for which a permit is issued is not started within six (6) months of being issued, or if the work is abandoned for a period of six (6) months, the permit may lapse and cease to be in effect. In the absence of any inspections over a six (6) month period Rollin Township shall cause the premises to be inspected to ascertain the work status. The respective permit applicant will be assessed a sixty (\$65) dollar inspection fee to reimburse the cost of such status inspection. In the event the permit lapses, any unexpended amounts of the permit fee shall be used to defray related costs. If a permit has lapsed, no further work shall take place until a new permit for the remaining work has been issued in accordance with the Township fee schedule. If the applicant communicates and explains the need for an extension prior to expiration one will be granted.

*PERMIT COSTS ARE BASED ON AN ESTIMATED NUMBER OF INSPECTIONS AND A SIXTY (\$65) DOLLAR PER INSPECTION FEE. ADDITIONAL INSPECTIONS WILL BE CHARGED OVER AND ABOVE THE INITIAL PERMIT FEE AND PAID PRIOR TO FINAL APPROVAL. SITE VISITS WHERE WORK HAS STARTED PRIOR TO THE PERMIT BEING OBTAINED WILL BE CHARGED AS AN INSPECTION. FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY MUST BE ISSUED PRIOR TO USE OF PERMITTED EQUIPMENT AND/OR AREA. PLEASE ALLOW 2 BUSINESS DAYS FOR THE INSPECTION.

The below fees are estimates for the initial cost of the Plumbing Permit. The final cost of the permit will be a result of the number of plumbing inspections throughout the project. If a required inspection is not included in the initial cost of the permit it will be added and need to be paid prior to final approval and Certificate of Occupancy being issued. Some inspections may be combined if ready during a single site visit, i.e. shower pan and rough inspections.

Tuno of Parmit	# of	Est.	Estimated Inspection Types		
Type of Permit	Insp.	Fee \$	Estimated hispection types		
Administrative Fee (added to all permits)		30	This fee is added to all permits to help cover the admin costs.		
New Home (stick)	2-4	130-260	Underground, shower pan, rough, final		
New Home (Mod)	2-3	130-200	Underground, rough, final		
New Home (HUD)	1-2	65-130	Underground, Final		
New Home (HUD in MHP)	1	65	Final		
Underground	1	65	Underground may be needed in other projects		
Shower Pan	1	65	Leak Test (If applicable to project)		
Addition (depends on facilities & fixtures)	2-4	130-260	Underground, shower pan, rough, final (if applicable)		
Renovation/Remodel	2-4	130-260	Underground, shower pan, rough, final		
Replacement Water Heater	1	65	Final		
Special Insp. W/Report	3	195	Site, report, appearance		
New or Replacement Sewer	1	65	Rough/Final		
New or Replacement Water Service	1	65	Final		
Water Softener Install	1	65	Final		
Commercial & Industrial	Calc		Based on total floor area and number of inspections determined in the plan review.		
	on P.Rev.	65/ Insp			
Additional Inspections	1	65	Added when going over allowed/paid for # of insp.		
Plan Reviews		130	Residential > 3500 SF & Commercial		
When the permitted area of the new constru- is added for each additional 1000 Sq.Ft.	ction or rer	novation ex	ceeds 4000 Sq.Ft., 25% of the inspection fee portion		



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# Mechanical Permit Fee Schedule & Information

Rollin Township

Rollin Township issues building, electrical, plumbing and mechanical permits. If work for which a permit is issued is not started within six (6) months of being issued, or if the work is abandoned for a period of six (6) months, the permit may lapse and cease to be in effect. In the absence of any inspections over a six (6) month period Rollin Township shall cause the premises to be inspected to ascertain the work status. The respective permit applicant will be assessed a sixty (\$65) dollar inspection fee to reimburse the cost of such status inspection. In the event the permit lapses, any unexpended amounts of the permit fee shall be used to defray related costs. If a permit has lapsed, no further work shall take place until a new permit for the remaining work has been issued in accordance with the Township fee schedule. If the applicant communicates and explains the need for an extension prior to expiration one will be granted.

*PERMIT COSTS ARE BASED ON AN ESTIMATED NUMBER OF INSPECTIONS AND A SIXTY (\$65) DOLLAR PER INSPECTION FEE. ADDITIONAL INSPECTIONS WILL BE CHARGED OVER AND ABOVE THE INITIAL PERMIT FEE AND PAID PRIOR TO FINAL APPROVAL. SITE VISITS WHERE WORK HAS STARTED PRIOR TO THE PERMIT BEING OBTAINED WILL BE CHARGED AS AN INSPECTION. FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY MUST BE ISSUED PRIOR TO USE OF PERMITTED EQUIPMENT AND/OR AREA. PLEASE ALLOW 2 BUSINESS DAYS FOR THE INSPECTION.

The below fees are estimates for the initial cost of the Mechanical Permit. The final cost of the permit will be a result of the number of mechanical inspections throughout the project. If a required inspection is not included in the initial cost of the permit it will be added and need to be paid prior to final approval and Certificate of Occupancy being issued. Some inspections may be combined if ready during a single site visit, i.e. gas pressure check and rough.

Turne of Dormait	# of	Est.	Entimeted inspection Turner			
Type of Permit	Insp. Fee \$		Estimated Inspection Types			
Administrative Fee (added to all permits)		30	This fee is added to all permits to help cover the admin costs.			
New Home (stick)	2	130	Rough, Final			
New Home (Mod)	2	130	Rough, Final			
New Home (HUD)	1	65	Final			
W/Underground or Gas Pressure	1 ea	65	Underground or Pressure			
Additions	2	130	Rough, Final			
Renovation/Remodel	2	130	Rough, Final			
Replacement Furnace	1	65	Final			
New Heating Appliance / AC	1	65	Final (may need underground and/or gas pressure)			
Fireplace Only	2	130	Rough, Final (may include gas pressure)			
Gas Piping	1	65	Gas Pressure (may need underground)			
Special Insp. W/Report	3	195	Site Insp and Report			
Outdoor Hydronic Heating	2	130	Underground, Final			
Duct System / Hydronic Piping	1	65	Rough or Pressure Check			
Pool Boiler/ Heater	1	65	Final (may also need underground or gas pressure)			
Hood/Exhaust System	1	65	Final			
Fire Suppression System	2	130	Rough, Final			
Commercial & Industrial	Calc on	65/	Based on total floor area and number of inspections			
	P.Rev.	Insp	determined in the plan review.			
Additional Inspections	1	65	Added when going over allowed/paid for # of insp.			
Plan Reviews		130 Commercial and Residential over 3500 SqFt				
When the permitted area of the new construct	lon or ren	ovation ex	ceeds 4000 Sq.Ft., 25% of the inspection fee portion			
is added for each additional 1000 Sq.Ft.	······		· · ·			
		RECA	7/2017			

JUN 1 9 2017

Sureau of

# **Construction Board of Appeals**

The following are approved Construction Board of Appeals members for:

Cambridge Township, Lenawee County 9990 W. M-50, P.O. Box 417 Onsted, MI 49265 (517) 467-2104

Rome Township, Lenawee County 9344 Forrister Rd. Adrian, MI 49221 (517) 263-3128 (Supervisor) Franklin Township, Lenawee County 3922 Monroe Rd., P.O. Box 101 Tipton, MI 49287 (517) 431-2320

Village of Onsted 108 S. Main St. Onsted, MI 49265 (517) 467-4618

Rollin Township, Lenawee County 730 Manitou Rd, P.O. Box 296 Manitou Beach, MI 49253 (517) 547-7786

Terms - 2 year terms renewed on February 15, 2017 (may want to consider approval of a longer term)

Officers - Elected on February 27, 2017 Chairman - Todd Dailey Vice-Chair - Wade Pelham Secretary - Jason Hess

### Todd Dailey - Architect/Engineer

Onsted, MI 49265 (517) Email: @@me.com Jason Hess - Commercial Contractor

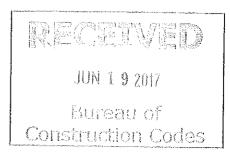
Tipton, MI 49287 (517) Email: jason@klcompanies.com Steve Hammill- Electrical Contractor

Addison, MI 49220 (517) Email: @_____@hotmail.com

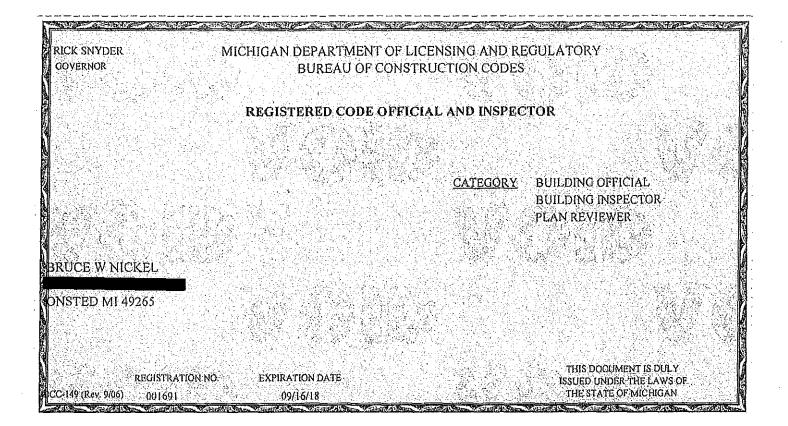
#### Vernon Fry - Mechanical Systems Engineer

Tipton, MI 49287 (517) Email: @@tc3net.com Wade Pelham - Residential Builder

Onsted, MI 49265 (517) Email: ______@frontiernet.net



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JUN 1 9 2017 Bureau of Construction Codes

IICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES  $\epsilon$  2  $\epsilon$   $\epsilon$   $\lambda$   $\epsilon$  1  $\epsilon$   $\epsilon$   $\epsilon$ 

REGISTERED CODE OFFICIAL AND INSPECTOR CATEGORIES PLUMBING INSPECTOR PLAN REVIEWER 

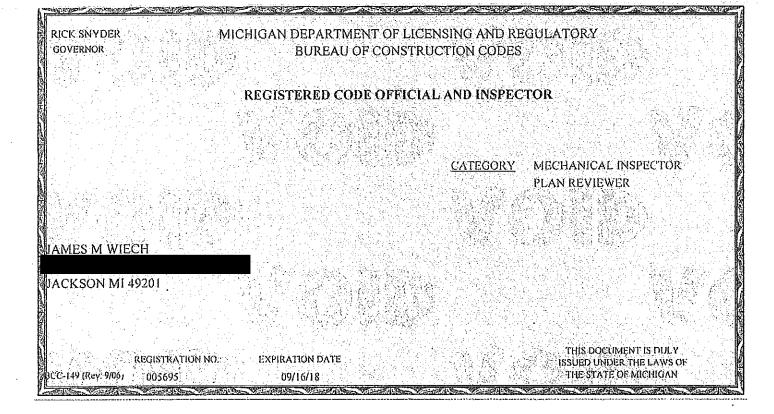
THOMAS R TRUDEAU

#### BROOKLYN MI 49230

1 EXPIRATION DATE REGISTRATION NO. 09/16/18 005886

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## CERTIFICATE OF OCCUPANCY Township of Rollin

#### **Lenawee County**

**STATE OF MICHIGAN** 

This is to certify that the occupant of the structure under the Certificate of Occupancy application,

#### OP17-003

#### 3411 ROUND LAKE HWY

issued by the Inspection Division, and having complied with the requirements of the ordinance, permission is hereby granted to occupy the said premises as set forth in the corresponding application under which the permits were granted, so far as completed.

Building Code in Effect: 2015 MRC	Construction Type: 5-B
Building permit Number: PB16-054	Jse Group:R-3 Occupancy Load: (
Sprinker System Required? N Installed?	N Prop. ID Number RL0-790-0090-00
Work Description: Construct new single fa	amily dwelling. 1521 Total SF Finished Floor

work Description: Construct new single family dwelling, 1521 Total SF Finished Floor, 976 SF 1st floor on crawl, 545 SF 2nd floor, 130 SF covered rear patio, 75 SF cover front deck.

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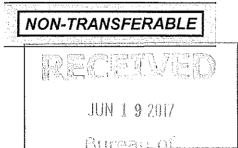
Owner:

14577

49253

Stipulations:

Certificate of Occupancy Issue Date: 06/14/2017



Signed in Rollin Township, Michigan 06/17/17

Bruce Nickel - Building Official

#### Application for Construction Code Appeal Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes P.O. Box 30255, Lansing, MI 48909 517-241-9303 www.michigan.gov/bcc

## Application Fee: \$500.00 Agency Use Only Authority: 1972 PA 230 Penalty: Failure to provide the information may result in denial of your request.

Note: The applicant is responsible for all fees applicable to this application.

CODE UNDER WHICH APPEAL IS SOUGHT				
Building (141)	trical (116)	Med	chanical (131)	Plumbing (99)
APPLICANT (Note: All correspondence wi	l be sent to this a	ddress)		
Integrated Design Solutions,	LLC			
APPLICANT NAME		·····		TELEPHONE NUMBER (Include Area Code)
Brandon Sundberg				(248) 823-2133
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)
1441 W. Long Lake Rd., Ste. 200	Troy	М	48098	(248) 823-2200

#### Instructions for Application for Construction Code Appeal

Facility Information: Provide all information requested.

Building Data: Provide all information requested from the building permit or plan review.

Permit Holder: Provide the information requested for the entity named on the permit.

Building Owner: Provide the information requested for the entity that owns the building, which is the subject of the appeal.

Building Permit Authority: Provide all information requested for the enforcing agency.

Summary of Appeal: Code; provide the code under which an appeal is sought. Code Section(s); provide the code section(s) that are the subject of the appeal. Desired Relief; describe the remedy being sought. Basis of Appeal; provide a brief statement why the requested remedy should be granted.

Note: If the decision being appealed is that of a local Board of Appeals, this application and the filing fee must be received in our office within 10 business days of the filing of the decision of the local board of appeals in accordance with Section 16 of 1972 PA 230.

				Validation Area
U.S. Postal Service MI Dept. of Licensing and Regulatory Affairs Bureau of Construction Codes (Address to appropriate division- Electrical Division, Mechanical Division or Plumbing Division <i>Please address Building appeals to Plan Review Division</i> ) P.O. Box 30255 Lansing, MI 48909	Bureau of Construction (Address to appropriation) Division, Mechanica Division	and Regulatory Affairs on Codes iate division-Electrical I Division or Plumbing ding appeals to Plan		
Lansing, ini 40909	Lansing, MI 48933			TranInto:141 22195866-1 05/31/17 ChkH: 11623 Ant: \$500.00 ID: INTEGRATED DESIGN SOLUTIONS LLC
		UN 0	5 2017	INA THERMALEN BESTOR SOFDITING CFC
BCC-972 (07/16) Page 1		Burea Constructi		

FACILITY INFORMATION			ee		
		Greenhills Dr.	anhille Dr		
	NAME OF CITY, VILLAGE OR TOWNSHIP IN WHICH FACILITY IS LOCATED				
City Village Township			Washte	enaw	
BUILDING DATA					
GROSS FLOOR AREA					
•	Addition	☑ AI	teration 6714 s	sfRepair	
CLASSIFICATION PER BUILDING CODE					_
Building Use E Construction Ty	/peIV-BNo. of C	Decupants exist	ing Area/Floor	existing No. of Floors	
PERMIT HOLDER		CONTACT PERSON	<u></u>	TELEPHONE NUMBER	(Include Area Code)
Greenhills School		John Nickel		(734) 205-4059	•
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include A	Area Code)
850 Greenhills Dr.	Ann Arbor	МІ	48105	(734) 769-5029	)
BUILDING OWNER					
NAME (Company or Individual)		CONTACT PERSON		TELEPHONE NUMBER	
Greenhills School	Laura	John Nickel		(734) 205-4059	
ADDRESS	CITY	STATE		FAX NUMBER (Include /	-
850 Greenhills Dr.	Ann Arbor	M	48105	(734) 769-5029	3
BUILDING PERMIT AUTHORITY ENFORCING AGENCY		BUILDING OFFICIAL	NAME	TELEPHONE NUMBER	(Include Area Code)
State of Michigan		Bureau of Co	Instruction Cod	les (517) 241-9328	3
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include /	Area Code)
PO Box 30255	Lansing	MI	48909		
SUMMARY OF APPEAL					
CODE SECTION(S)	4000 45 4000 7	4400.0.0	_	Provide copies of the following as appropriate:	
2012 Michigan Building Code Section DESIRED RELIEF (State Briefly)	ons 1009.15, 1009.7	, 1108.2.2	🖸 Stater	ment of Facts and Reasoning	
See attachments			🔲 Сору	Copy of Enforcing Agency Determination	
				Supporting Material	
BASIS OF APPEAL (State Briefly)				Copy of Decision of Local Board of Appeals	
See attachments			Trans	script of Local Board of Appeal	s Hearing
APPLICANT SIGNATURE			<u></u>	DATE	
	AMPEX	-		DATE 5/26	/17
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Bureau of Construction Codes

BCC-972 (07/16) Page 2



RICK SNYDER GOVERNOR DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

SHELLY EDGERTON DIRECTOR

June 13, 2017

John Nickel, Applicant Greenhills School 850 Greenhills Drive Ann Arbor, MI 48105

jnickel@greenhillsschool.org

#### PROJECT #: PR2017BCC-000262

#### 850 GREENHILLS DRIVE ANN ARBOR, MI WASHTENAW COUNTY

Dear Mr. Nickel:

This project has been reviewed for compliance with the State of Michigan Construction Code.

#### 2012 Michigan Building Code - James Greene (517) 241-9307

- 1. MBC, 1009.15 Stairs shall have handrails on each side.
- 2. MBC, 1009.7 Raised bench seating levels shall have rise and runs per the stair code. The use of platform seating levels is not covered in the code sections so the base of review is for the levels to be a monumental stair.
- 3. MBC, 1108.2.2 Provide wheelchair spaces as required at raised bench seating area.

The plan review is denied based on the above plan review comments.

Items #1009.15 and 1009.7 are issues that can be appealed to the Construction Code Appeals Item #1108.2.2 is subject for a Barrier Free Design Rule Exception.

Please reference the above PROJECT NUMBER on future correspondence, addenda, blueprints, etc., concerning this project and notify any other architect/engineer, company, subcontractors, etc. involved.

Please check out our website at <u>https://aca3.accela.com/lara</u> for faster processing time using online submissions.

Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bcc • Telephone (517) 241-9328 • Fax (517) 241-9308 John Nickel Page 2 June 13, 2017

If you have questions, plan reviewers can be contacted directly or call our office at (517) 241-9328. Additionally, plan review statuses can be obtained and future reviews can be applied for on the Bureau's website at <u>www.michigan.gov/bcc</u> and clicking Online Licensing/Permitting.

Sincerely, Signed and Filed on: June 13, 2017

James Greene, Plan Reviewer Permits & Plan Review Division

JG/kc cc: BCC - Building Division(s)

## i D S

May 26, 2017

Application for Construction Code Appeal Michigan Department of Licensing & Regulatory Affairs Bureau of Construction Codes P.O. Box 30255 Lansing, MI 48909

Project Name: Greenhills School Renovation Phase 1 BCC Project No. PR2017BCC-000262 IDS Project No. 16167-1000

To whom it may concern:

In response to BCC Plan Review comments dated March 1, 2017, Greenhills School requests clarifications to the code as indicated in the following narrative.

The School's library (AKA Information Commons) can be entered from two levels; the main level and lower level. The difference in elevation between the two levels is 5'-3". Access to the Information Commons' lower level is from two sets of stairs inside the space or from an accessible ramp in the Corridor outside the Information Commons (refer to Drawings CI-1 and CI-2).

Egress from inside the Information Commons is through double doors at the main level and two single doors to the exterior at the lower level.

Modifications planned for the Information Commons include reconfiguring the Computer Lab at the main level, adding a Reception at the main level and reconfiguring an Office and Multi-Media Lab into a Learning Center on the lower level. Two new stairs with a tiered platform between the stairs permits communication between the two levels inside the Information Commons.

Item No. 1: Michigan Building Code, Section 1009.15 Handrails Plan Review Comment: "Stairs shall have handrails on each side"

> <u>Response</u>: The planned stairs are monumental and are not required (refer to Drawing Cl-2). If the stairs were not included in the design, code-compliant egress at each level would be maintained through existing exits. The function of the stairs is for communication between the main and lower levels inside the Information Commons only. Therefore, they are not *stairways* and not considered part of the *means of egress*. During an emergency, occupants on the lower level can egress directly outside at two Exits and the occupants on the upper level can egress from the space to an Exit-sign-defined *Egress Path*. Per Section 1012.9, a single handrail is only required along the most direct path of egress travel for monumental stairs. We request the stairs be defined as monumental; requiring a single handrail per Section 1012.9.

Item No. 2: Michigan Building Code, Section 1009.7 Stair Treads and Risers Plan Review Comment: "Raised bench seating levels shall be accessed by a stairway"

<u>Response</u>: Section 1009.7 defines requirements for stair treads and risers. Though applicable to the monumental stairs (each meet the requirements of that Section), it is unclear how this Section is applicable to the project's tiered platform (Refer to Drawing CI-2 Perspectives). There are no Code requirements for accessing a tiered platform via *stairways*. The design of the tiered platform does not include *fixed seating*. But, the monumental stairs do provide access at each end of the tiered platform. Additionally, the occupants can ingress/egress from the upper and lower levels of the tiered platform. We request the tiered platform not be defined as stair treads and risers as defined in Section 1009.7. We further request, without the inclusion of *fixed seating*, the tiered platform not be defined as "raised bench seating".

5211 cascade road se, ste. 300 grand rapids, mi 49546 1441 w. long lake road, ste. 200 troy, mi 48098

248-823-2100 www.ids-troy.com

INTEGRATED CLEASING SOLUTIONS architecture engineering interiors & technology

Greenhills School Renovation Phase 1 BCC Project No. PR2017BCC-000262 IDS Project No. 16167-1000 May 26, 2017 Page 2

Item No. 3: Michigan Building Code, Section 1108.2.2 Wheelchair Spaces Plan Review Comment: "Provide wheelchair spaces as required at raised bench seating area"

<u>Response</u>: The tiered platform area is not intended to view an event. The designed intent of the tiered platform is for socializing, studying, working and relaxing similar to areas on the lower level of the Information Commons. Therefore, it does not meet the definition of an *Assembly area* as referenced in Sections 1108.2 and 1028. The design of the tiered platform does provide *accessible* floor space at the upper and lower levels adjacent to the tiered platform. We request the tiered platform not be defined as an *assembly area* and wheelchair spaces not be required.

#### **Conclusion**

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We trust we have clearly documented the design intent of the tiered platform and provided proper responses to justify its design. If the Board takes exception to any or all of the above responses, we will be happy to work with the Board to provide a safe and code-compliant design.

Sincerely,

Integrated Design Solutions, LLC

Brian Ingham, AIA Architecture

cc: File

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RICK SNYDER GOVERNOR DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

SHELLY EDGERTON DIRECTOR

March 1, 2017

Mr. John Nickel, Applicant Greenhills School 850 Greenhills Drive Ann Arbor, MI 48105

jnickel@greenhillsschool.org

#### PROJECT #: PR2017BCC-000262

#### 850 GREENHILLS DR ANN ARBOR, MI WASHTENAW COUNTY

Dear Mr. Nickel:

This project has been reviewed for compliance with the State of Michigan Construction Code.

#### 2012 Michigan Building Code - James Greene (517) 241-9307

- 1. MBC, 1009.15 Stairs shall have handrails on each side.
- 2. MBC, 1009.7 Raised bench seating levels shall be accessed by a stairway.
- 3. MBC, 1108.2.2 Provide wheelchair spaces as required at raised bench seating area.

Provide two (2) complete sets of construction documents incorporating any necessary changes in response to concerns stated by the plan reviewer. Once appropriate responses are received and reviewed, the approval process will proceed.

#### 2014 Michigan Electrical Code - Jon Marihugh (517) 241-9369

1. NEC, Article 760 - The electrical plan review regarding the fire alarm system is limited to the wiring method.

This electrical review is approved contingent upon the enclosed comments and field inspection. Please do not respond to these comments unless changes occur to the approved design that require resubmittal or as requested by the field inspector.

Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909 www.michigan.gov/bcc • Telephone (517) 241-9328 • Fax (517) 241-9308 John Nickel Page 2 March 1, 2017

2012 Michigan Mechanical Code - Kevin Matteson (517) 373-6347

This mechanical review is approved contingent upon the field inspection.

#### 2012 Michigan Plumbing Code - Peter Ingalls (517) 241-9350

This plumbing review is approved contingent upon the field inspection.

Please reference the above PROJECT NUMBER on future correspondence, addenda, blueprints, etc., concerning this project and notify any other architect/engineer, company, subcontractors, etc. involved.

Please check out our website at <u>https://aca3.accela.com/lara</u> for faster processing time using online submissions.

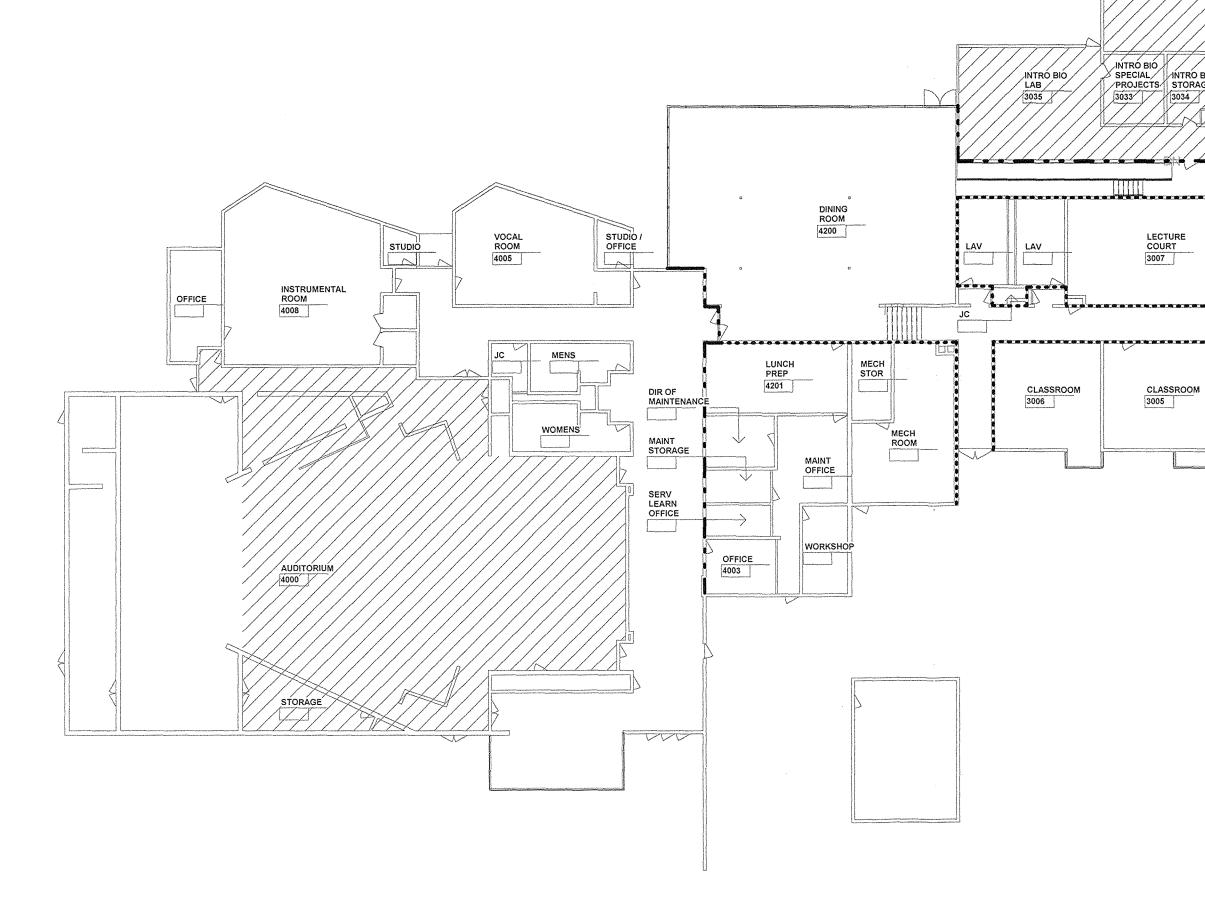
If you have questions, plan reviewers can be contacted directly or call our office at (517) 241-9328. Additionally, plan review statuses can be obtained and future reviews can be applied for on the Bureau's website at <u>www.michigan.gov/bcc</u> and clicking Online Licensing/Permitting.

Sincerely, Signed and Filed on: March 1, 2017

James Greene, Plan Reviewer Permits & Plan Review Division

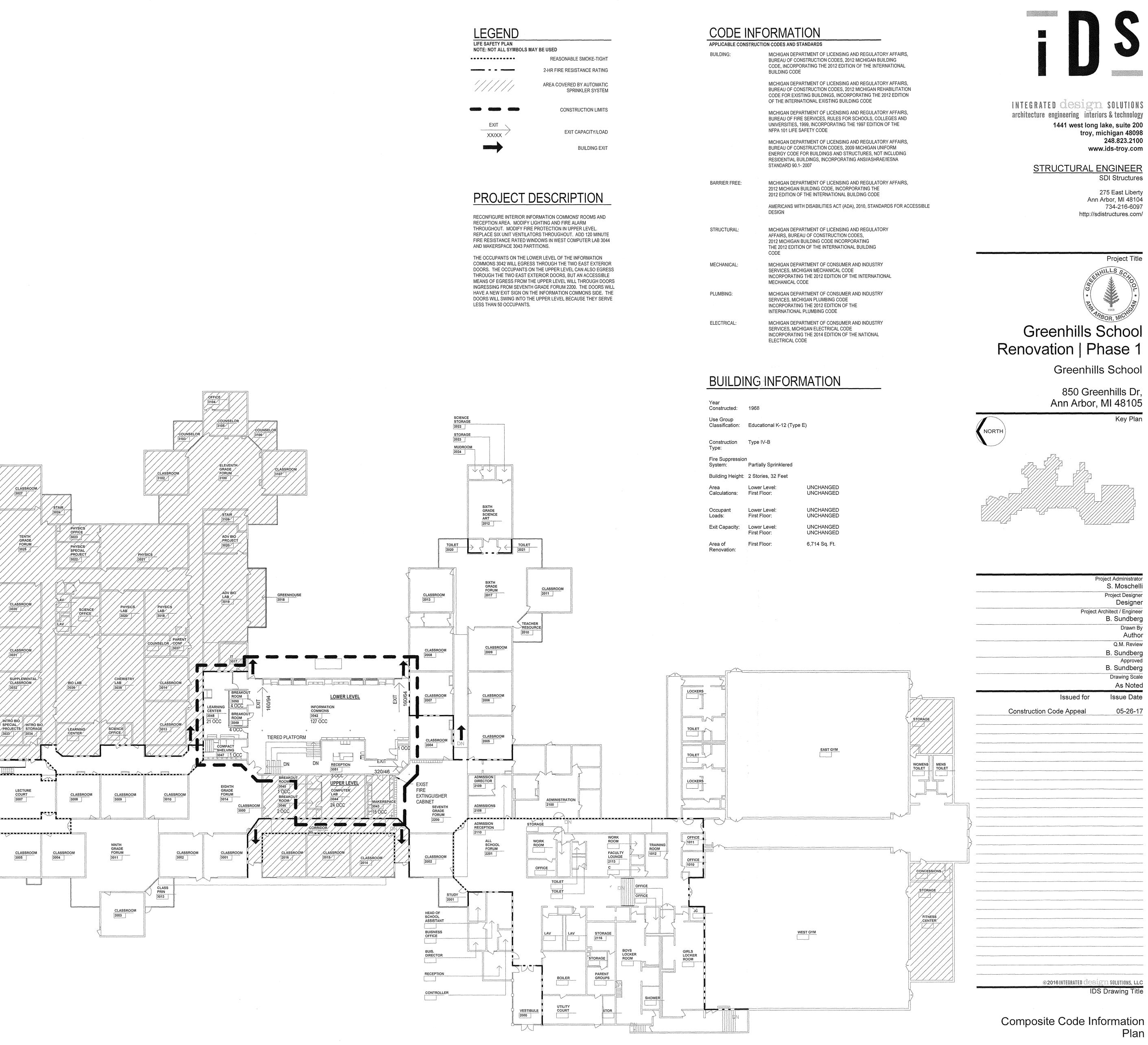
JG/kc

cc: BCC - Building, Electrical, Mechanical, and Plumbing Division(s)









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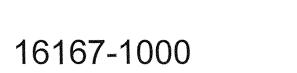
Year Constructed:	1968	
Use Group Classification:	Educational K-12 (Type E	)
Construction Type:	Type IV-B	
Fire Suppressior System:	Partially Sprinklered	
Building Height:	2 Stories, 32 Feet	
Area Calculations:	Lower Level: First Floor:	UNCHANGED UNCHANGED
Occupant Loads:	Lower Level: First Floor:	UNCHANGED UNCHANGED
Exit Capacity:	Lower Level: First Floor:	UNCHANGED UNCHANGED
Area of Renovation:	First Floor:	6,714 Sq. Ft.



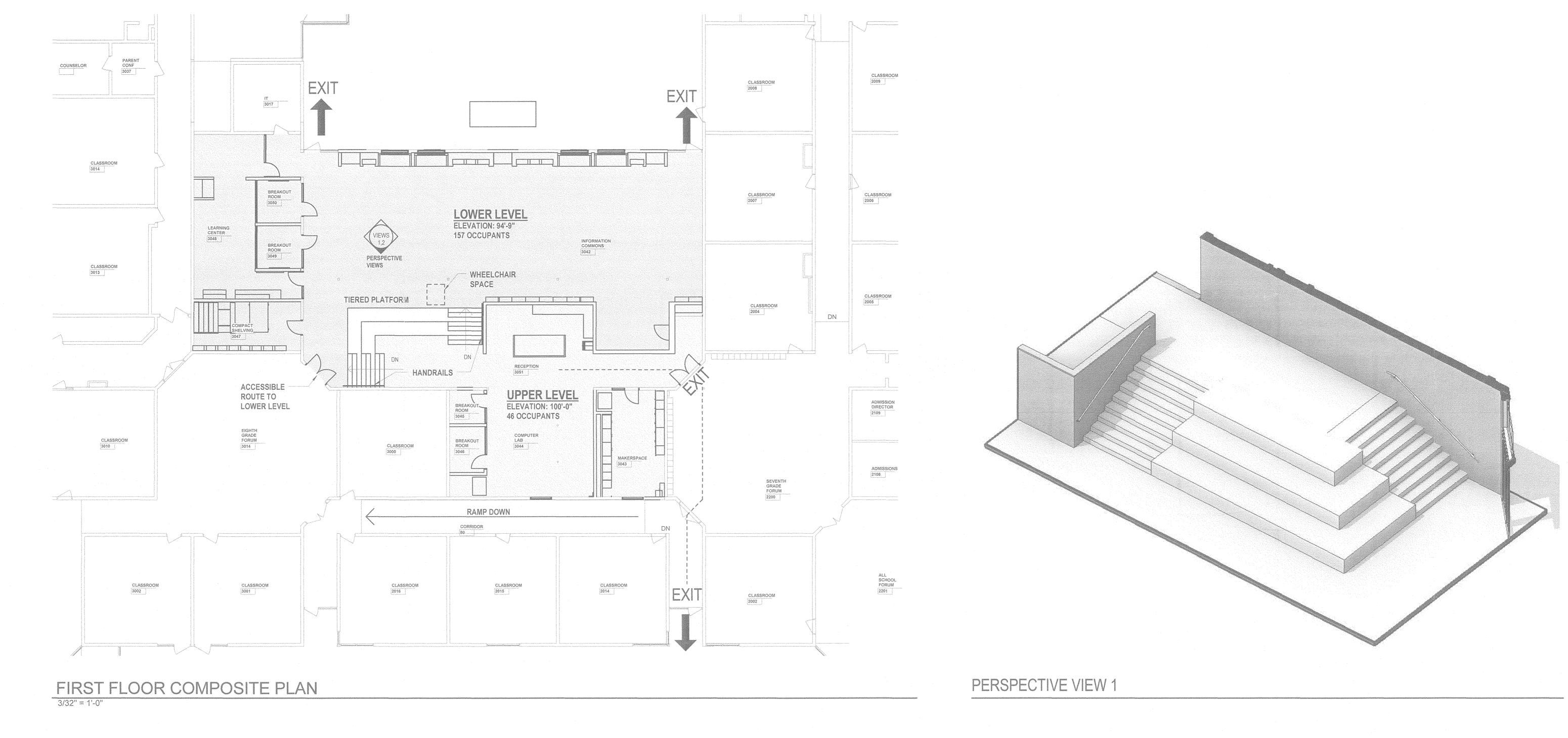


Reference Finish Floor Elevation: XXX'-X" ils Project Number Drawing Number

**CI-1** 



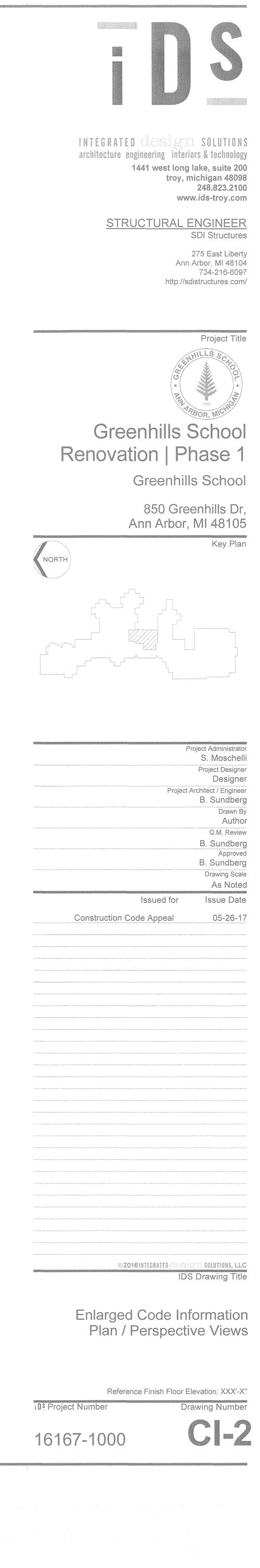




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## **PERSPECTIVE VIEW 2**



	CENCINA Departme Bure P.O. Bo JUN 0 9 2017 F CONSTRUCTION CODES	for Construction Q ent of Licensing and au of Construction C x 30255, Lansing, M 517-241-9303 www.michigan.gov/bcc	Regulatory Affairs	141/116/131/99 Agency Use Only
Authority: 1972 PA 230		t ARA is an equal opportunity	amployet/program Auxilian ai	ds, services and other reasonable accommodations
Penalty: Failure to provide the info	ormation may result in denial of your request.	are available upon request to		as, services and other reasonable accommodations
Note: The applicant is re	sponsible for all fees applic	able to this applicati	on	
Building (141)	Electrical (116)	Me	chanical (131)	Plumbing (99)
APPLICANT (Note: All corre	spondence will be sent to this add	dress)		
PARTNERS in Arch	nitecture			
APPLICANT NAME	TELEPHONE NUMBER (Include Area Code)			
David W. Gassen				(586) 469-3600
ADDRESS	CITY	STATE	FAX NUMBER (Include Area Code)	
65 Market Street	Mt Clemens	M	48043	(586) 469-3607

#### Instructions for Application for Construction Code Appeal

Facility Information: Provide all information requested.

Building Data: Provide all information requested from the building permit or plan review.

Permit Holder: Provide the information requested for the entity named on the permit.

Building Owner: Provide the information requested for the entity that owns the building, which is the subject of the appeal.

Building Permit Authority: Provide all information requested for the enforcing agency.

Summary of Appeal: Code; provide the code under which an appeal is sought. Code Section(s); provide the code section(s) that are the subject of the appeal. Desired Relief; describe the remedy being sought. Basis of Appeal; provide a brief statement why the requested remedy should be granted.

Note: If the decision being appealed is that of a local Board of Appeals, this application and the filing fee must be received in our office within 10 business days of the filing of the decision of the local board of appeals in accordance with Section 16 of 1972 PA 230.

**U.S. Postal Service** 

Bureau of Construction Codes (Address to appropriate division-Electrical Division, Mechanical Division or Plumbing Division Please address Building appeals to Plan Please address Building appeals to Plan **Review Division** P.O. Box 30255 Lansing, MI 48909

Courier Other Than U.S. Postal Service MI Dept. of Licensing and Regulatory Affairs MI Dept. of Licensing and Regulatory Affairs **Bureau of Construction Codes** (Address to appropriate division-Electrical **Division, Mechanical Division or Plumbing** Division **Review Division**) 1st Floor Ottawa Bldg. 611 W. Ottawa St. Lansing, MI 48933

Validation Area

FACILITY INFORMATION					
FACILITY NAME		ADDRESS			
Covenant Academy		400 W C	rosstown Parkway		
NAME OF CITY, VILLAGE OR TOWNSHIP IN WHICH FAC	•		COUNTY		
City 🗌 Village 🗌 Township	of: Kalamazoo		_ Kalamazoo		
BUILDING DATA					
CLASSIFICATION PER BUILDING CODE	Addition	Alterati	on	Repair	
_		000		<b>^</b>	
Building Use E Construction Ty	De VB No. of C	Occupants 200	Area/Floor Varies	3No. of Floors2	
PERMIT HOLDER NAME (Company or Individual)		CONTACT PERSON		TELEPHONE NUMBER (Include Area Code)	
E Gilbert and Sons		Lester Gilbert		(586) 731-7450	
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)	
45887 Mound Rd.	Utica	MI	48317	TAX NOMBER (IIICIDE AIBA CODE)	
BUILDING OWNER					
NAME (Company or Individual)		CONTACT PERSON		TELEPHONE NUMBER (Include Area Code)	
Kalamazoo Covenant Academy		Gretchen LaHaie	•	(616) 528-2383	
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)	
400 W. Crosstown Parkway	Kalamazoo	МІ	49007		
BUILDING PERMIT AUTHORITY				I	
ENFORCING AGENCY		BUILDING OFFICIAL NAME		TELEPHONE NUMBER (Include Area Code)	
State of MI Bureau of Construction	Codes			(517) 241-9328	
ADDRESS	CITY	STATE	ZIP CODE	FAX NUMBER (Include Area Code)	
PO Box 30255	Lansing	MI	48909		
SUMMARY OF APPEAL					
CODE SECTION(S)		000 404 0	Provide copies of t	ne following as appropriate:	
1104.3, 1018, 1029, 1109.2, 1106.1	, ICO-ANSI 117.1-2	009-404.2	Statement of Facts and Reasoning		
DESIRED RELIEF (State Briefly)	coverel 2012 MBC	vootione which	Copy of Enforce	Copy of Enforcing Agency Determination	
The owner is requesting relief from several 2012 MBC sections which would allow their organization and its students to occupy the 2nd floor.					
			Supporting Material		
BASIS OF APPEAL (State Briefly)			Copy of Decision of Local Board of Appeals		
Reuse of existing building as educational use and structural and logistical		Transcript of Local Board of Appeals Hearing			
difficulties in making 2nd Floor fully compliant.			Sal Doal a Strippoald Floating		
APPLICANT SIGNATURE				DATE	
Andlen	North Contraction of the			6-5-17	
		w			

BCC-972 (07/16) Page 2

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RICK SNYDER GOVERNOR

#### DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

SHELLY EDGERTON DIRECTOR

June 26, 2017

David Gassen Partners in Architecture, Applicant 65 Market Street Suite 200 Mt. Clemens, MI 48043

epacella@partnersinarch.com

#### **PROJECT #: PR2017BCC-001528**

#### 400 CROSSTOWN PKWY KALAMAZOO, MI KALAMAZOO COUNTY

Dear Mr. Gassen:

This project has been reviewed for compliance with the State of Michigan Construction Code.

#### 2012 Michigan Building Code - James Greene (517) 241-9307

- 1. MBC, B1104.1 Accessible routes within the site shall be provided from public transportation stops, accessible parking and accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance served. Provide site plan indicating compliance with ALL accessibility provisions including parking, accessible route (sidewalks), curb cuts, parking spaces, signage, etc.
- 2. MBC, B107.2.1 Construction documents shall be dimensioned and drawn to scale and shall indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code. Provide complete mechanical, electrical and plumbing design drawings for any alterations.
- 3. MBC, 3408.4 Provide seismic compliance verification for the change in occupancy / risk category.
- 4. MBC, 107.2.1 Provide the use of the basement area.
- 5. MBC, 1021.2(2) Travel distance to exit is limited to 75' provide dimension.
- 6. MBC, 1007.4 The elevator is a required accessible means of egress and shall comply with the requirements of this code section.

#### Providing for Michigan's Safety in the Built Environment

LARA is an equal opportunity employer

Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. P.O. BOX 30254 • LANSING, MICHIGAN 48909

www.michigan.gov/bcc • Telephone (517) 241-9328 • Fax (517) 241-9308

David Gassen Page 2 June 26, 2017

7. MBC, 1018.2 - Minimum corridor shall be 6'-0" throughout. Special attention at existing column locations and ramped corridor access area which reduce the required width.

8. MBC, B107.2.1 Construction documents shall be dimensioned and drawn to scale and shall indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code. The construction documents are not complete. You shall provide adequate dimensions, details, sections for the means of egress (stair widths, handrails, guardrails), egress windows, etc, Provide fire alarm, means of egress lighting and exit lighting design and locations. Refer to MBC, 3408.1. This review is on-going and incomplete until such time we receive adequate construction documents to review and approve.

- 9. MBC, B1109.2 Toilet rooms and bathing facilities shall be accessible. MBC, 1010.9 Handrails in compliance with 1012 shall be provided, detailed and dimensioned.
- 10. MBC, 1010.9 Handrails in compliance with 1020 shall be provided, detailed and dimensioned.
- 11. MBC, 1008.1.6 Provide dimensioned door landing in compliance with the code.
- 12. Provide dimensioned egress window sections and details for ALL egress windows throughout the building.
- 13. Provide dimensioned sections and details for handrail and guardrail, stair width, etc.
- 14. MBC, 1018.2 Minimum corridor width is 6'-0".
- 15. MBC, 1018.2 Vestibule width shall be 6'-0".
- 16. MBC, B1109.3 Where sinks are provided, not less than 5 percent but not less than one percent, provided in accessible spaces shall comply with ICC/ANSI A117.1.
- 17. MBC, 1018.2 Corridor width to temporary classroom shall be 6'-0".
- 18. MBC, 1009.15 Provide, dimension and detail required stair handrails.
- 19. ICC/ANSI A117.1 2009 Table 404.2.3.2 Provide maneuvering clearances required by the code at ALL door locations.
- 20. MBC, 1018.1 Existing corridor partitions and openings shall be fire rated per code verify.
- 21. MBC, 1104.3 -Provide the required accessible access to temporary classroom 123 and Staff lounge.
- 22. MBC, 1009.4 Stairway shall be 44" minimum width
- 23. MBC, 1110.1 Provide accessible signage locations and details.

The building review is disapproved. Please download new documents incorporating changes in response to concerns stated above by the plan reviewer. Once appropriate responses are download to this electronic submittal, the approval process will proceed.

David Gassen Page 3 June 26, 2017

#### 2012 Michigan Plumbing Code – Pete Ingalls (517) 241-9350

1. MPC, Section 106.3.1 Required construction documents submitted for approval shall consist of site plan, floor plans, DWV riser diagrams and water distribution system, and roof plan. Show direction of flow, pipe sizes, grade of horizontal piping, elevations, drainage fixture unit loading of both stacks and drains in the DWV system, supply fixture unit load for the water system, branch supplies serving more than one plumbing fixture, and appliance or hose outlet.

The plumbing review is disapproved. Please download new documents incorporating changes in response to concerns stated above by the plan reviewer. Once appropriate responses are download to this electronic submittal, the approval process will proceed.

The electrical and mechanical reviews have not been completed at this time.

Please reference the above PROJECT NUMBER on future correspondence, addenda, blueprints, etc., concerning this project and notify any other architect/engineer, company, subcontractors, etc. involved.

Please check out our website at <u>https://aca3.accela.com/lara</u> for faster processing time using online submissions.

If you have questions, plan reviewers can be contacted directly or call our office at (517) 241-9328. Additionally, plan review statuses can be obtained and future reviews can be applied for on the Bureau's website at <u>www.michigan.gov/bcc</u> and clicking Online Licensing/Permitting.

Sincerely, Signed and Filed on: June 26, 2017

James Greene, Plan Reviewer Permits & Plan Review Division

JG/kc

cc: BCC - Building, Electrical, Mechanical, and Plumbing Division(s)

#### Skopek, Stanley (LARA)

From: Sent: To: Subject: Skopek, Stanley (LARA) Tuesday, June 13, 2017 8:44 AM 'David Gassen' Construction code appeal for Covent Academy

David Gassen,

Construction code appeal for Covent Academy

We have your application for construction code appeal for Covent Academy and your appeal will be placed on hold pending a plan review submission. As per my e-mail of March 27, 2017 you will have to resubmit to this office a plan review for the remainder of the building. The PR2017BCC-000549 was to allow the school to occupy a portion of the building the remainder was to be a separate submission. The e-mail was not a denial of a future plan review but areas of concern that should be addressed. To appeal before the construction code appeal board you must first submit a plan review for the remaining work and have a formal denial. The appeal will be processed after a formal denial is written.

Please contact me after you do submit for the plan review so we can put a priority on this project.

#### Stanley S. Skopek , Architect

Chief of Permits and Plan Review Division Bureau of Construction Codes Licensing and Regulatory Affairs State of Michigan (517) 241-9328 Phone (517) 373-8547 Fax <u>skopeks@michigan.gov</u>

846

#### PLAN REVIEW EMAIL FROM BCC REFERENCE AS ENFORCING AGENCY DETERMINATION

#### Darren McKenna

From: Sent:	Skopek, Stanley (LARA) <skopeks@michigan.gov> Monday, March 27, 2017 1:36 PM</skopeks@michigan.gov>
To:	Darren McKenna
Cc:	Lambert, Keith (LARA); glahaie@mcovenantacademy.org; Les; David Gassen; Kunkel,
Subject:	Barbara (LARA); Curtis, Charles (LARA); Gensler, Alesha (LARA) RE: RE: Plan review submittal - Covenant Academy - Kalamazoo

Darren,

This is the review of the project and the items needing to get address as a separate plan review submission for the next phase.

- 1. MBC 1104.3 Connected spaces- Provide the required accessible access to 123 Temp Classroom and 124 Staff lounge.
- 2. MBC 1018.1 Construction Provide the required rated corridor for 122 Stairs, Closet 220 and 219 Elevator Lobby.
- 3. MBC 1018.2 -width Provide the required corridor width for 110 Vestibule
- 4. MBC 1018. Dead ends Provide corridor without a dead end the area of concern is 208 Classroom.
- 5. MBC 1029 Emergency Escape and Rescue- provide the required emergency escape and rescue access. For 123 Temp Classroom.
- 6. MBC 1109.2 Toilet and Bathing Facilities Provide the required accessible toilet rooms 120 Women, 121 Men, 218 Women and 217 Men.
- 7. MBC 1106.1 Accessible Parking Spaces submit for Site plan review and accessible parking.
- 8. ICC A117.1-2009 Table 404.2.3.2 Maneuvering Clearances- Provide the required door clearances for doors at 122 Stairs and 101 Lobby stairs

Thank-you

#### Stanley S. Skopek , Architect

Chief of Permits and Plan Review Division Bureau of Construction Codes Licensing and Regulatory Affairs State of Michigan (517) 241-9328 Phone (517) 373-8547 Fax <u>skopeks@michigan.gov</u>



JUN 09 2017

#### BUREAU OF CONSTRUCTION CODES PLAN REVIEW DIVISION

From: Skopek, Stanley (LARA)
Sent: Friday, March 24, 2017 1:53 PM
To: 'Darren McKenna' <DMcKenna@partnersinarch.com>
Cc: Lambert, Keith (LARA) <lambertk@michigan.gov>; glahaie@mcovenantacademy.org; Les
<lesg@egilbertandsons.com>; David Gassen <DGassen@partnersinarch.com>; Kunkel, Barbara (LARA)
<KunkelB1@michigan.gov>
Subject: RE: Plan review submittal - Covenant Academy - Kalamazoo

Darren,

1

#### PR2017BCC-000549

Attached is the comment letter, when you make the corrections please e-mail me the drawings.

We are doing a full review of the project and will have a list of concern sent to you on Monday. The items will need to be addressed but they will not affect the occupancy of this phase.

#### Stanley S. Skopek , Architect

Chief of Permits and Plan Review Division Bureau of Construction Codes Licensing and Regulatory Affairs State of Michigan (517) 241-9328 Phone (517) 373-8547 Fax <u>skopeks@michigan.gov</u>

From: Darren McKenna [mailto:DMcKenna@partnersinarch.com] Sent: Thursday, March 23, 2017 4:57 PM To: Skopek, Stanley (LARA) <<u>SkopekS@michigan.gov</u>> Cc: Lambert, Keith (LARA) <<u>lambertk@michigan.gov</u>>; glahaie@mcovenantacademy.org; Les <<u>lesg@egilbertandsons.com</u>>; David Gassen <<u>DGassen@partnersinarch.com</u>> Subject: Re: Plan review submittal - Covenant Academy - Kalamazoo

Stan,

The temporary project number assigned to the project is 17TMP-014756. See attached screen shot for reference.



Thank you,

Darren

On Mar 23, 2017, at 3:13 PM, Skopek, Stanley (LARA) <<u>SkopekS@michigan.gov</u>> wrote:

Darren, Do you know the project number that our system assigned to it?

We do know you're having problems submitting project to us right now and our IT is working on it, you do have multiple different projects submitted in the last week. I could not find any of your project submitted with the address of 400 Crosstown Parkway.

#### Stanley S. Skopek , Architect

Chief of Permits and Plan Review Division Bureau of Construction Codes Licensing and Regulatory Affairs State of Michigan (517) 241-9328 Phone (517) 373-8547 Fax skopeks@michigan.gov From: Darren McKenna [mailto:DMcKenna@partnersinarch.com] Sent: Thursday, March 23, 2017 2:53 PM To: Lambert, Keith (LARA) <lambertk@michigan.gov> Cc: Skopek, Stanley (LARA) <<u>SkopekS@michigan.gov</u>>; glahaie@mcovenantacademy.org; Les <<u>lesg@egilbertandsons.com</u>>; David Gassen <<u>DGassen@partnersinarch.com</u>> Subject: Plan review submittal - Covenant Academy - Kalamazoo

Mr. Lambert,

I believe we were successful in uploading documents to the BCC Plan Review Portal. We did receive an error at the Receipt/Record Issuance portion of the process. My understanding is that has been occurring recently, but that the submission is still successful. Can you confirm that the documents were transmitted through the portal. If not, I have attached them here.

Please let me know either way.

Thank you,

Darren R. McKenna, RA

#### PARTNERS in Architecture, PLC

65 Market Street Mount Clemens, MI 48043 p 586.469.3600 f 586.469.3607 c 586



Construction Code Commission Bureau of Construction Codes Licensing and Regulatory Affairs State of Michigan PO Box 30255, Lansing, MI 48909



JUN 09 2017

#### BUREAU OF CONSTRUCTION CODES PLAN REVIEW DIVISION

June 2, 2017

Re: Kalamazoo Covenant Academy 400 W. Crosstown Pkwy, Kalamazoo, MI Construction Code Commission – Code Appeal LARA Project Number PR2017BCC-000549

To whom it may concern,

The project in which we are requesting a code appeal was previously submitted to the Bureau of Construction Codes in the fall of 2016 under the 2012 Michigan Building Code. Covenant Academy is currently occupying the first floor of the renovated building under a temporary occupancy permit.

The Kalamazoo Covenant Academy is requesting relief from several 2012 MI Building Codes sections which would allow their organization and its students to occupy the second floor as an Educational Use.

The Academy serves a unique group of students of High School grades ranging in age from 16-22 and has a similar facility in Muskegon. The organization is like a one room school house, in that students are grouped in a classroom combining a mix of ages and do not need to move from one classroom to another throughout the building. Thus students with accessibility needs can be placed in a space that is in accordance with their needs if necessary.

Existing Building Information:

Stories	2
Basement	Partial (occupied by mechanical equipment)
Area (1 st Floor)	6,791 SF
Area (2 nd Floor)	7,855 SF
Area (Basement)	995 SF

Code Relief Items. Items numbered below align with Plan Review Items forwarded by BCC Plan Review to PARTNERS in Architecture on March 27, 2017. Relief is not being requested from all items.

Item 1 <u>MBC Section 1104.3 – Connected Spaces</u> - Provide the required accessible access to 123 Temp Classroom and 124 Staff Lounge.

The building selected works well for the educational use, but is larger than necessary for the school occupant. Rooms 123 and 124 are intended to be utilized by staff only and are employee work areas which are duplicated elsewhere in the building. The overall size of both rooms are more than needed for the staff and less than 300 SF of area may be utilized. The Rooms in question are elevated and are currently only accessible by stair. Room 123 is approx. 3'-0" above the main level and Room 124 is approximately 7'-7" above the main level. To accommodate an accessible route a new lift would be required as a ramp to access the rooms is not feasible due to the length (91') required.

PARTNERS



While the initial floor plan listed Rooms 123 and 124 as being occupied by students and staff, the rooms are not necessary to be occupied by students and staff as there are other classroom and staff areas that will be provided that are accessible which duplicate the uses. The spaces will be utilized by staff only. The Life Safety Plans have been revised to reflect this. The building owner requests relief from section 1104.3.

Item 2 <u>MBC Section 1018.1 – Construction</u> – Provide the required rated corridor for 122 Stairs, Closet 220 and 219 Elevator Lobby.

#### Closet 220:

Construction will be upgraded to 45 minute Fire Barrier Construction with a 45 minute door opening.

#### Elevator Lobby 219:

Elevator Lobby and Elevator Machine Room Walls have been upgraded to 45 minute Fire Barrier Construction with 45 minute doors.

#### Stairs 122 (Request for relief from code passage):

Are indicated to be fire rated, but as indicated in Item No. 1 above, Rooms 123 and 124 are not to be utilized by students. Room 124 has direct access to the Fire Rated Stair down to Lobby 101. Access from the area can access the fire rated Stair off Lobby 101.

Item 3 <u>MBC Section 1018.2 – Corridor Width</u> – Provide the required corridor width for 110 Vestibule.

Vestibule 110, which is a corridor, was defined by two existing building spaces. On the west side of the new Vestibule is an existing egress stair form the second floor. The stair is to remain and is planned to be utilized by the second floor occupants. On the east side of the new Vestibule is an existing bank equipment room that is to remain. The width between the stair on the west and the bank equipment vault on the east is 5 feet 8 inches. The corridor created was defined by the existing two rooms. The location of the corridor allows access to the exterior of the building.

The life safety and building codes list the minimum width of a corridor as 6'-0". The occupant load served by the corridor is 55. The corridor is an exit only condition and 5'-8" width is adequate to accommodate the occupants when exiting.

Item 5 <u>MBC Section 1029 – Emergency Escape and Rescue</u> – Provide the required emergency escape and rescue access. For 123 Temp Classroom.

As indicated in Item No. 1 above, Rooms 123 and 124 are not to be utilized by students. Room 124 has direct access to the adjacent fire rated stair and then to the fire rated Lobby 101. Room 123 has the ability to travel in two separate directions – either to the east down the rated Vestibule 100 or to the fire rated stair and then to the fire rated Lobby 101. The owner requests relief from emergency escape and rescue requirement.

#### PARTNERS



Item 6 <u>MBC Section 1109.2 – Toilet and Bathing Facilities</u> – Provide the required accessible toilet rooms 120 Women, 121 Men, 218 Women and 217 Men.

Total occupant load of building as calculated based on use is 275 occupants. Three water closets and three lavatories are required per gender for a total of 6 water closets and 6 lavatories. The original building, prior to the current renovations contained the following:

Water Closets (Female)	5
Water Closets/Urinals (Male)	5
Lavatories (Female)	3
Lavatories (Male)	2

The existing restrooms are not configured to meet existing accessibility requirements. During renovations two accessible single user restrooms were added to the first floor. The additional water closets and lavatories bring the total number of plumbing fixtures in line with the current codes.

On the first floor the total occupant load is 95. At 95 occupants, a single water closet and lavatory is required per gender. Mens 102 and Womens 103 provide the required number of fixtures for the floor.

Due to the existing configuration of the restrooms on the first floor, reconfiguration of the restrooms is structurally not feasible as mechanical shafts occur on the east and west sides and stairs/hallways occur on the south and north sides respectively.

Due to the existing configuration of the restrooms on the second floor, reconfiguration is also infeasible as an exterior wall is located to the north, a stairway is located to the south, an elevator lobby and mechanical room is to the east and a corridor is to the west. The owner requests relief from being required to bring all restrooms up to current accessibility codes.

Item 8 ICC A117.1-2009 – Table 404.2.3.2 – Maneuvering Clearances at Doors – Provide the required door clearances for doors at 122 Stairs and 101 Lobby stairs.

> As indicated in Item No. 1 above, Rooms 123 and 124 are not to be utilized by students and the areas are duplicated elsewhere in the facility on the first floor. The door clearances in question will not affect the usage of the student occupants. The owner requests relief from being required to bring all the staff area door clearance up to current codes due to the difficulties in complying due to the existing conditions.

PARTNERS



We look forward to presenting the Statement of Facts and Reasoning to you at the July Commission meeting. Feel free to contact me at 586. I can also be reached by email at dgassen@partnersinarch.com

Sincerely, PARTNERS in Architecture, PLC

<u>dre</u>

David W. Gassen, AIA Principal

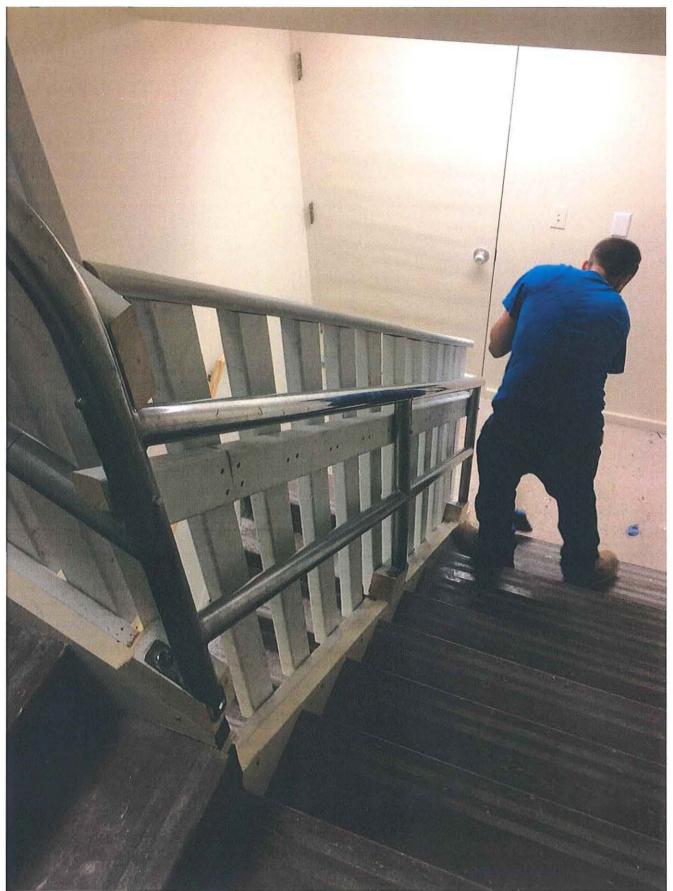
Cc: Gretchen LaHaie, Covenant Academy (via email) Lester Gilbert, E. Gilbert and Sons Darren McKenna, RA, PARTNERS in Architecture

File Ref: 16-151;

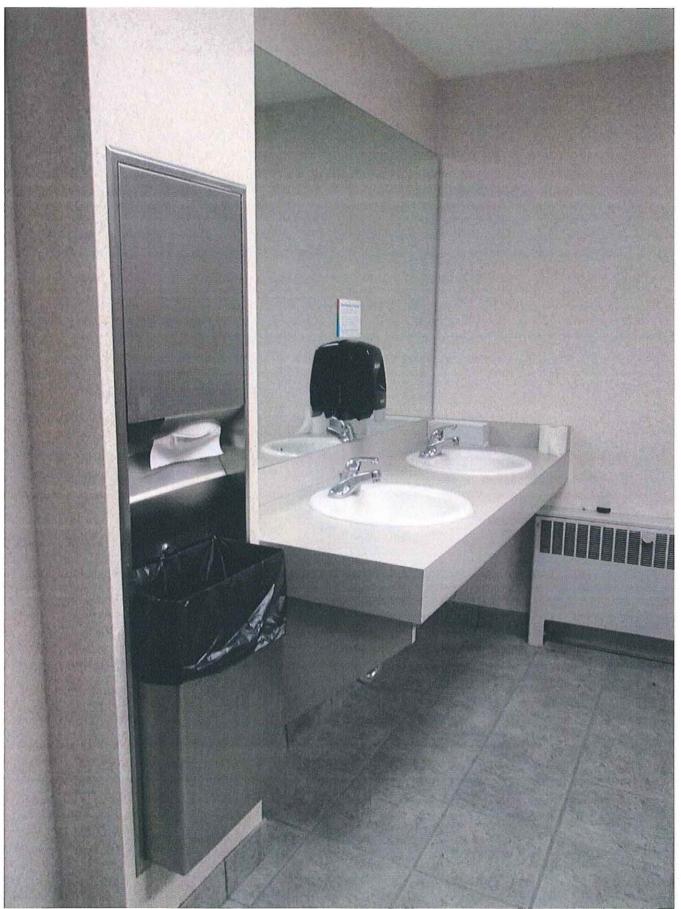
Enclosures: Life Safety and Building Drawings



Guard and Handrail Modified Center Stair



Guard and Handrail Modified Center Stair



Women's Restroom - 2nd Floor



Women's Restroom - 2nd Floor



Men's Restroom - 2nd Floor



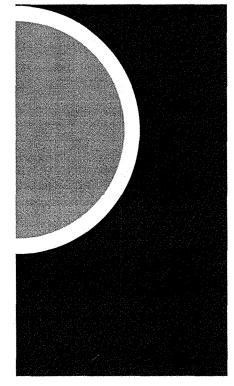
Men's Restroom - 2nd Floor

# Kalamazoo Covenant Academy

## **Interior Renovations**

## PARTNERS

6



## PARTNERS in Architecture, PLC

65 Market Street Mount Clemens, MI 48043 586-469-3600

Construction Manager: E. Gilbert & Sons

45887 Mound Road Utica, MI 48317 (Phone) 586-731-7450

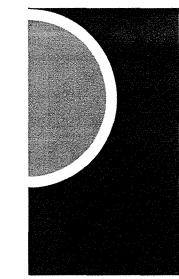
## Owner Kalamazoo Covenant Academy

400 W. Crosstown Parkway Kalamazoo, MI 49007 Phone # (616) 528-2383

860

南部

## PARTNERS



PARTNERS in Architecture, PLC 65 MARKET STREET MOUNT CLEMENS, MI 48043 P 586.469.3600 F 586.469.3607

#### Statement of Intellectual Property

The ideas, concepts, drawings and thoughts conveyed herein are the intellectual property of PARTNERS in Architecture, PLC, 65 Market Street, Mount Clemens, M 48043 (P 586.469.3600). This set of drawings, in whole or in part, may not be reproduced, without the written consent of PARTNERS in Architecture, PLC. This information is protected under U.S. Copyright Law, all rights reserved. © Copyright 2017

LOCATION MAP

#### OWNER

Covenant Academy 400 W. Crosstown Pkwy Kalamazoo, MI 49007

PROJECT NAME

Kalamazoo Covenant Academy Interior Renovations

400 W. Crosstown Parkway Kalamazoo, MI 49007

PROJECT NO.

## 16-151

l	SSUE DATE	
(	Bids/Construction	09/21/16
I	3CC Bulletin	03/23/17
l	BCC Review	03/31/17
(	Construction Code Appeal	06/05/17

PROFESSI	ONAL	SEAL



List of Drawings						
Sheet Number Sheet Title						
	Cover Sheet					
A0-01	General Project Information					
A0-03	Schedules					
A1-01	Life Safety Plans and Information					
A2-01	Demolition Plans					
A3-00	Basement Plan					
A3-01	Floor Plans					
A4-01	Reflected Ceiling Plans					
A6-01	Wall Sections and Details					

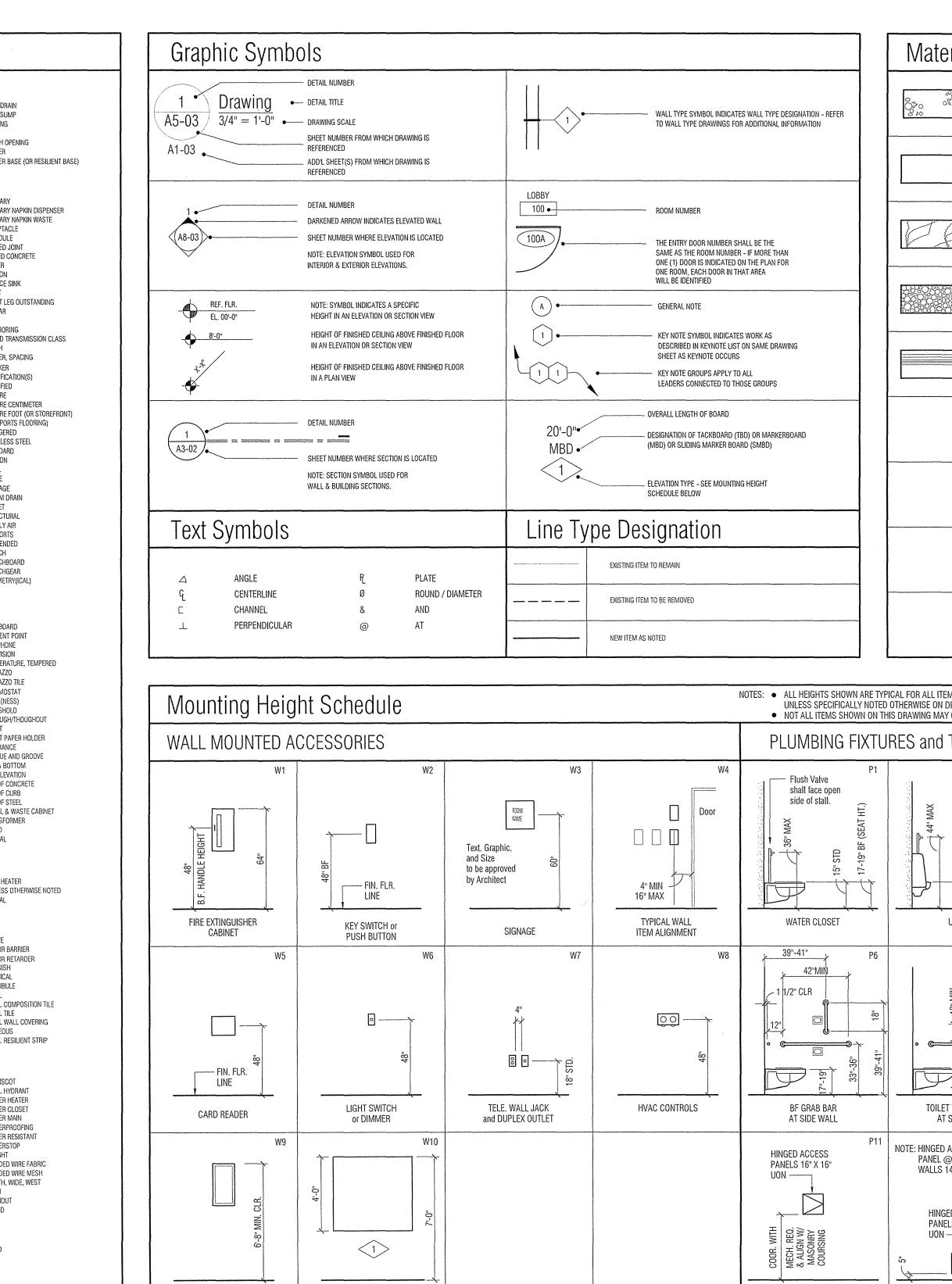
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## RECEIVED

JUN 09 2017

BUREAU OF CONSTRUCTION CODES PLAN REVIEW DIVISION

А		F		М		R (CONT.)	
AFF ARF	ABOVE FINISHED FLOOR ABOVE REFERENCE FLOOR	FWP FB	FABRIC WRAPPED PANEL FACE BRICK	MAG	MAGNETIC	RD RS	ROOF DRAIN ROOF SUMP
ACCT	ACCENT	FOC	FACE OF CONCRETE	MH MFR	MANHOLE MANUFACTURE(R)	RFG BM	ROOFING ROOM
AP AC	ACCESS PANEL ACOUSTICAL	FF FS	FACTORY FINISH FAR SIDE	MAR MAR T.	MARBLE MARBLE THRESHOLD	RO	ROUGH OPENING
ACT ADD	ACOUSTICAL TILE ADDENDUM	۶° FT	DEGREES FAHRENHEIT FEET/FOOT	MBD MAS	MARKER BOARD MASONRY	RUB RB	RUBBER RUBBER BASE (OR RE
ADD'L	ADDITIONAL	FIN	FINISH(ED)	MO	MASONRY OPENING		
ADJ AGG	ADJACENT AGGREGATE	FE FEC	Fire extinguisher Fire extinguisher cabinet	MAT MAX	MATERIAL(S) MAXIMUM	S	
A/C ALT	AIR CONDITIONING ALTERNATE OR ALTERNATIVE	FVC FLD	FIRE VALVE CABINET FIELD	MECH MC	MECHANICAL MEDICINE CABINET	SAN SND	SANITARY Sanitary Napkin Di
AL,ALUM	ALUMINUM	FHS	FIRE HOSE STATION	MED	MEDIUM	SNWR	SANITARY NAPKIN W
ANCH AB	ANCHOR, ANCHORAGE ANCHOR BOLT	FPR FL	Fire proofing Floor(ing)	MEM MEMB	MEMBER MEMBRANE	SCH	RECEPTACLE SCHEDULE
ANOD ARCH	ANODIZED ARCHITECT(URAL)	FD Fluor	FLOOR DRAIN FLUORESCENT	MET MDS	METAL METAL DIVIDER STRIP	SJ S.CONC	SCORED JOINT SEALED CONCRETE
ASPH	ASPHALT	FTG	FOOTING	ML	METAL LATH	SEAL	SEALER
AUTO	AUTOMATIC	FDN FA	FOUNDATION FRESH AIR	MET T. MEZZ	METAL THRESHOLD MEZZANINE	SECT SS	SECTION SERVICE SINK
В		FSRS	FULLY-ADHERED SHEET ROOFING SYSTEM	mm MIN	MILLIMETER(S) MINIMUM	SHT SLO	SHEET SHORT LEG OUTSTA
B.F.	BARRIER FREE	FURR	FURR(ED), (ING)	MIR	MIRROR	SIM SK	SIMILAR SINK
BP BR	BASE PLATE OR BEARING P.	G		MISC MISC	MISCELLANEOUS MISCELLANEOUS IRON	SB	SOIL BORING
BRĞ	BEARING	G GA	GAGE. GAUGE	MON. MCC	MONITOR(ED) MOTOR CONTROL CENTER	STC S	SOUND TRANSMISSI SOUTH
BM BTW	BENCH MARK OR BEAM BETWEEN	GAL	GALLON	MTD	MOUNT(ED), (ING)	SPC	SPACER, SPACING
BIT	BITUMINOUS	GALV GL	GALVANIZED GLASS, GLAZING	MULL	MULLION	SPK SPEC(S)	SPEAKER SPECIFICATION(S)
BLKG BD	BLOCKING BOARD	GR g	GRADE, GRADING GRAM			SPEC'D SQ	SPECIFIED
BS BOT	BOTH SIDES BOTTOM	ĞRD	GROUND	Ν		cm ²	SQUARE CENTIMETER
BC	BOTTOM OF CURB	GYP GYP BD	GYPSUM GYPSUM BOARD		110 A 1	SF	SQUARE FOOT (OR S (OR SPORTS FLOORII
BRK BLDG	BRICK BUILDING	GYP L GP	GYPSUM LATH GYPSUM PLASTER	NAT NCA	NATURAL NATURAL COLOR ANODIZED	STAG	STAGGERED
BL	BUILDING LINE		UTTOUN TLAOTER	NEG NRC	NEGATIVE NOISE REDUCTION	SST STD	STAINLESS STEEL STANDARD
С		H			COEFFICIENT	STA STL	STATION STEEL
CABT	CABINET	HDCP	HANDICAP(PED)	NONCOMB NOM	Noncombustible Nominal	STN	STONE
CR	CARD READER	HDBD HDWE	HARDBOARD HARDWARE	N NA	NORTH NOT APPLICABLE	STOR SD	STORAGE STORM DRAIN
CPT CES	CARPET(ED) CARPET EDGE STRIP	HWD	HARDWOOD	NIC	NOT IN CONTRACT	ST	STREET STRUCTURAL
CI	CAST IRON CAST-IN-PLACE	HTG H&V	HEATING HEATING & VENTILATING	NTS NO (#)	NOT TO SCALE NUMBER	SA	SUPPLY AIR
CB	CATCH BASIN	HVAC	HEATING/VENTILATION/ AIR CONDITIONING			SUPP SUSP	SUPPORTS SUSPENDED
CLG CEM	CEILING CEMENT	HT	HEIGHT	0		SW SWBD	SWITCH SWITCHBOARD
C TO C CM	CENTER TO CENTER CENTIMETER(S)	H HP	High High point	OFF	OFFICE	SWGR	SWITCHGEAR
C°	DEGREES CENTIGRADE	HS HC	HIGH STRENGTH HOLLOW CORE	0/C	ON CENTER(S)	SYM	SYMMETRY(ICAL)
CER CT	CERAMIC CERAMIC TILE	HM	HOLLOW METAL	OPG OPP	opening opposite	Т	
CHAN	CHANNEL	HORIZ HP	HORIZONTAL HORSE POWER	OPP HD ORIG	OPPOSITE HAND Original	ļ	
CHDK PL Cl	CHECKERED PLATE CLEAR(ANCE)	HB HW	HOSE BIBB HOT WATER	Oz	OUNCE	TKB TP	TACKBOARD TANGENT POINT
CLOS CO	CLOSET CLEAN OUT	HWH	HOT WATER HEATER	OS OA	outside Outside air	TEL	TELEPHONE TELEVISION
СНК	COAT HOOK	HR	HOUR	OD OH	OUTSIDE DIAMETER OVERHEAD	TV TEMP	TEMPERATURE, TEM
CW COL	COLD WATER COLUMN	1		UH	UVERHCAD	TERR TT	TERRAZZO TERRAZZO TILE
COMB COMP	COMBINATION COMPRESS(ED),(ION),(IBLE)	IN(")	INCH(ES)	D		THERM	THERMOSTAT
COMP	CONCEALED	INCL	INCLUDE(D), (ING)	Р		THK THRES	THICK(NESS) THRESHOLD
CONC	CONCRETE CONCRETE MACONIDY LINIT	INFO ID	INFORMATION INSIDE DIMENSION	PH	PHYSICALLY HANDICAPPED	THRU TOIL	THROUGH/THOUGH( TOILET
CMU	CONCRETE MASONRY UNIT (CONCRETE BLOCK)	INSUL ICA	INSULATE(D), (ION) INTEGRAL COLOR	PT PR	PORCELAIN TILE Pair	ТРН	TOILET PAPER HOLD
CONN CONST	CONNECTION CONSTRUCTION		ANODIZED	PNL PTD	PANEL PAPER TOWEL DISPENSER	TOL T&G	TOLERANCE TONGUE AND GROO
CONST JT CONT	CONSTRUCTION JOINT CONTINUOUS OR CONTINUE	INT INTERM	INTERIOR/INTERNAL INTERMEDIATE	PTD/R	PAPER TOWEL DISPENSER &	T&B TE	TOP & BOTTOM TOP ELEVATION
CONTR	CONTRACT(OR)	INV IRR	INVERT IRRIGATION	PKG	RECEPTACLE COMBINATION PARKING	TOC	TOP OF CONCRETE
CJ CORR	Control Joint Corrugated or Corridor	inn		PBD PARTN	PARTICLE BOARD PARTITION	TC TOS	TOP OF CURB TOP OF STEEL
CEN CTSK	CENTER COUNTERSUNK	J		PE	PASSENGER ELEVATOR	TWC TRAN	TOWEL & WASTE C/ TRANSFORMER
CF	CUBIC FOOT	JC	JANITOR'S CLOSET	PERM PLAS	PERMANENT PLASTER	Т	TREAD
CY CYL	CUBIC YARD Cylinder	JT	JOINT	PLAM P	PLASTIC LAMINATE PLATE	TYP	TYPICAL
		JST JB	JOIST JUNCTION BOX	PLBG	PLUMBING	11	
D				PLWD PNT	PLYWOOD PAINT(ED)		UNIT HEATER
DPR		K		POLYISO PVC	POLYISOCYANURATE POLYVINYL CHLORIDE	UH UON	UNLESS OTHERWIS
DP DL	DAMPROOFING DEAD LOAD	kg	KILOGRAMS	1b/#	POUND(S)	UR	URINAL
DEFS DET	DIRECT EXTERIOR FINISH SYSTEM DETAIL	KV KVA	KILOVOLT KILOVOLT/AMPERE	PCF PPF	Pounds per cubic foot Pounds per foot	V	
DIAG	DIAGONAL DIAMETER	KW KWH	KILOWATT(S) KILOWATT-HOUR	PLF PSF	POUNDS PER LINEAL FOOT POUNDS PER SQUARE FOOT	VA	VALVE
Ø DIFF	DIFFUSER	ka/m	KILOGRAM PER METER	PC	PRECAST CONCRETE	VB	VAPOR BARRIER
DIM D/W	Dimension Dishwasher	kg/cm ²	KILOGRAM PER SQUARE CENTIMETER	PREF PRE-FAB	PREFINISHED PREFABRICATE(D)	VR VAR	VAPOR RETARDER VARNISH
DO	DOOR OPENING	K KSI	KIPS KIPS PER SQUARE INCH	PROP	PROPOSED	VERT VEST	VERTICAL VESTIBULE
DN DT	DOWN DRAIN TILE	KIT	KITCHEN	Q		VIN	VINYL
DWG DF	drawing Drinking Fountain	КО	KNOCKOUT	. QT	QUARRY TILE	VCT VT	VINYL COMPOSITIO VINYL TILE
E				QB QTR	QUARRY TILE BASE QUARTER	VWC VIT	VINYL WALL COVER VITREOUS
	CAOL	L	14000470004	set113		VRS	VINEOUS VINYL RESILIENT ST
EA EF	EACH EACH FACE	LAB LAM	LABORATORY LAMINATE(D)	R		187	
EW E	EACH WAY EAST	LAV	LAVATORY LEAD COATED COPPER	RAD	RADIUS, RADIATOR, RADIATION	W	
ELEC	ELECTRIC(AL)	LH	LEFT HAND	RC	RAINWATER CONDUCTOR	WAIN WHYD	WAINSCOT WALL HYDRANT
EWC EL	ELECTRIC WATER COOLER ELEVATION	LHR L	LEFT HAND REVERSE LENGTH	RECVG REC	RECEIVING RECESS(ED)	WH	WATER HEATER
ELEV EMER	ELEVATOR EMERGENCY	LT LTG	LIGHT	REF REFL	REFERENCE REFLECT(ED), (IVE), (OR)	WC WM	WATER CLOSET WATER MAIN
ENC	ENCLOS(E), (URE)	LP	LIGHTING PANEL	REFR	REFRIGERATOR	WP WR	WATERPROOFING WATER RESISTANT
EP EQ	EPOXY EQUAL	LIN LSWD	LINEAR, LINEAL LINEAR SUSPENDED WOOD CEILING	reg Reinf	register Reinforce(d), (ing)	WS	WATERSTOP
EQUIP	EQUIPMENT	LL	LIVE LOAD	REQD RESIL	REQUIRED RESILIENT	WT WWF	WEIGHT WELDED WIRE FAB
esc Epdm	ESCALATOR ETHYLENE PROPYLENE	LG LLBB	LONG LONG LEGS BACK	RT	RESILIENT TILE	WWM	WELDED WIRE ME
EXH	DIENE MONOMERS EXHAUST	LLH	TO BACK LONG LEG HORIZONTAL	RA REV	RETURN AIR REVISION(S), REVISED	W W/	WITH
EB	EXPANSION BOLT	LLO	LONG LEG OUTSTANDING	RH	RIGHT HAND	W/O WD	WITHOUT WOOD
EJ EXP CONST	EXPANSION JOINT EXPOSED CONSTRUCTION	LLV LOC	LONG LEG VERTICAL LOCATE/LOCATION	RHR ROW	RIGHT HAND REVERSE RIGHT OF WAY		
EXT ETR	EXTERIOR EXISTING TO REMAIN	L.P. LV	LOW POINT LOW VOLTAGE	R	RISER	Y	
G111	CONTRACTOR CONTRACTOR	LV	LOW VOLINGE	Rd	ROAD	YD	YARD



TOILET STALL ACCESS PANEL

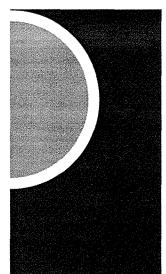
MARKER/TACK BOARD ELEVATION

861

ELECTRIC PANEL

Material Po	oche India	ations			
୍ଟ୍ରିକ୍ତ୍ର ନୁଦ୍ଦୁ କରୁ କରୁ			/PSUM WALL JARD		WOOD/SOLID SPECIES (FINISH MATERIAL) (NOTE MATERIAL)
CONC., PLASTEI (ELEVAT (NOTE N	3	GY	/PSUM WALL		WOOD (CONTINUOUS BLOCKING)
(GRANIT (SECTIO	E, STONE) E, ETC.) N/ELEVATION) IATERIAL)	AC	SULATION COUSTIC/THERMAL OTE TYPE)		SHIM MATERIAL (WOOD, METAL, ETC.) (NOTE MATERIAL)
GRAVEL			INT FILLER		PLYWOOD/PARTICLE BOARD (VENEER FINISH) (NOTE MATERIAL)
SAND/G (SUB-B/	RAVEL ISE MATERIAL)		M.U. / MASONRY BLOCK ONCRETE BLOCK)	200000	CARPET
		BR	иск	BATT OR BLANKET	INSULATION ACOUSTIC/THERMAL (NOTE TYPE)
		AL	EEL/COPPER, METAL, UMINUM, ETC. OTE MATERIAL)	DATI UK DLANKET	
		ME	ETAL WALL PANEL SYSTEM		
DR ALL ITEMS WHERE TH WISE ON DRAWINGS (B.F	. DENOTES BARRIER FRE	E REQUIREMENTS)			
and TOILET	IIS PROJECT	ES			
URINAL	74" BF 74" MAX BF 24" MAX BF 29" MIN. BF	P3	HI-LOW / DRINKING FOUNT/	AIN	BF GRAB BAR AT REAR WALL
TOILET TISSUE DISP. AT SIDE WALL HINGED ACCESS PANEL @ STUD WALLS 14" X 14" HINGED ACCESS PANELS 12" X 12" UON	PA	P8	WALL MOUNTED SOAP DISPENSE	- 34" M/	P10 
UNDER LAVATORY					
ACCESS PANEL					

## PARTNERS



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#### Statement of Intellectual Property

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CONSULTANT

KEY PLAN

#### OWNER

Kalamazoo Covenant Academy

PROJECT NAME

Kalamazoo Covenant Academy

400 W. Crosstown Parkway Kalamazoo, MI, 49007

## project no. 16-151

## ISSUES / REVISIONS

Bids/Construction	9/21/16
BFS Review Response	11/7/16
BCC Review	1/13/17
BCC Bulletin	03/23/17

#### DRAWN BY ₽€/€TJO

CHECKED BY

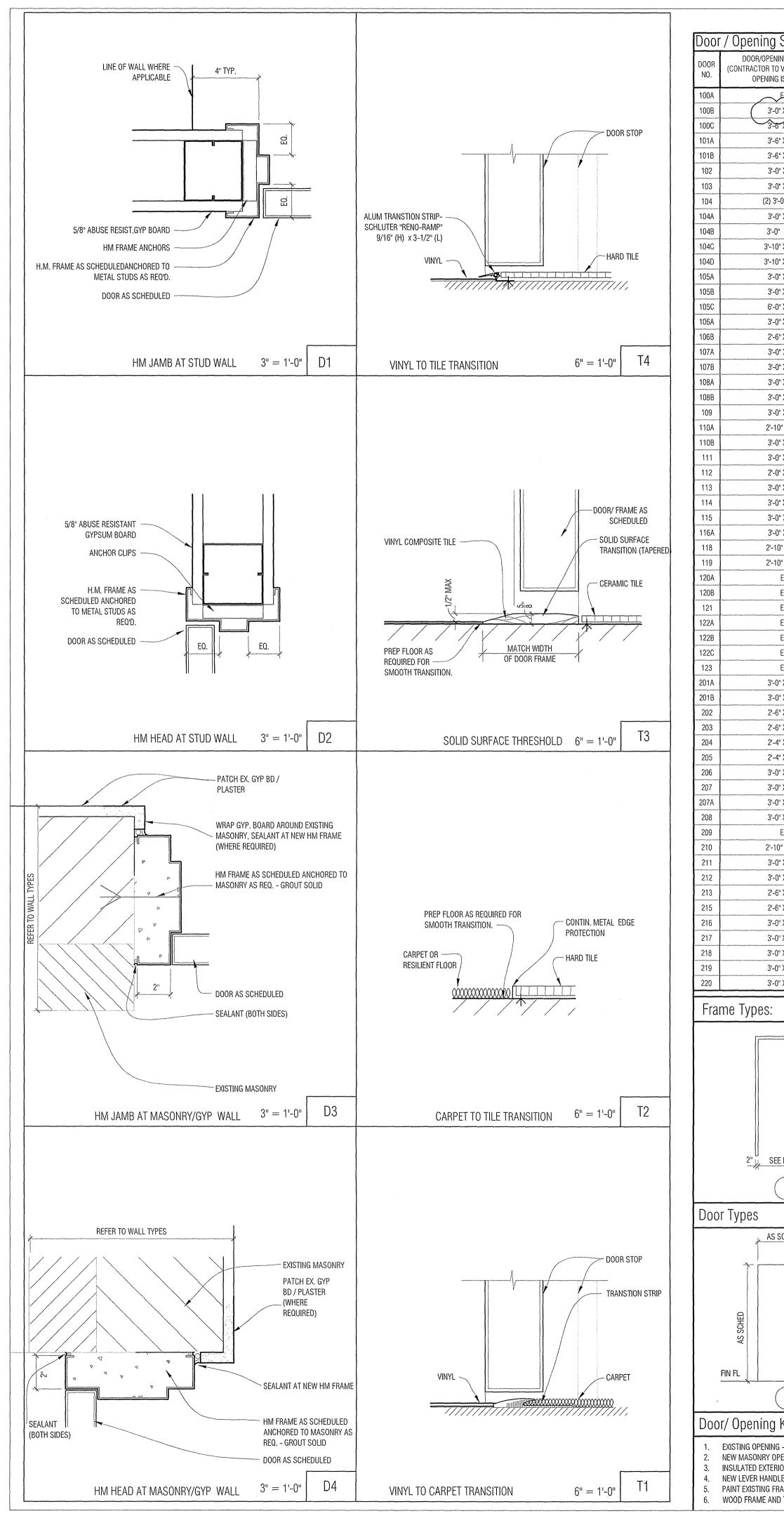
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## APPROVED BY

DWG SHEET NAME

## GENERAL PROJECT INFORMATION

^{SHEET NO.} АО-О1

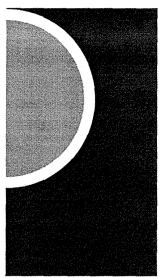


																					******	
ng Schedule		DOOR			FRAME			DETAILS		HARDWARE			Room Fi	nish Schedule	T	I	T	W/	ALLS		1	······
R TO VERIFY DOOR SIZE IF NING IS EXISTING)	TYPE		FINISH	TYPE	MATERIA		H HEAD	JAMB	THRES/SILL	HARDWARE SET #		ROOM FINISH KEY NOTES	ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING FINISH	ROOM FINISH KEY NOTES
EX 3'-0" X 7'-0"		ALUM.	ANOD.	$\sim$	ALUM.	ANOD	1	D3-SIM.	FULL	001			100	VESTIBULE	EX. PT	EX.	GLAZING	PNT	GLAZ	PNT	EX.	REMOVE WALL COVERINGS, PNT WALLS
3'-6" X 7'-0"	-B	HM H.M.	PNT PNT	$\overline{}_{1}$	<u> </u>	PNT PNT	EX.	EX.		019	60 60		101 102	LOBBY MEN'S RESTROOM	EX. PT PT	EX.	PNT PNT	PNT PNT	EX. PNT	PNT PNT	EX. GYP BD-PNT	
3'-6" X 7'-0"	B	H.M.	PNT	1	H.M.	PNT	EX.	EX.		006.1	60		103	WOMEN'S RESTROOM	PT	PT	PNT	PNT	PNT	PNT	GYP BD-PNT	
3'-0" X 7'-0" 3'-0" X 7'-0"	BB		PREFIN. PREFIN.	1	H.M. H.M.	PNT PNT		D1	T4 	017			104	LUNCH ROOM	VCT	RES	PNT	PNT/GLAZING	DNIT		ACT	
2) 3'-0" X 7'-0" 3'-0" X 7'-0"	A C		Prefin. Prefin.	1	H.M. H.M.	PNT PNT		D1	 	009	20		105 106	HALLWAY	CPT CPT	RES RES	PNT PNT	PNT/GLAZING PNT	PNT PNT	PNT/GLAZING	ACT ACT	
3'-0" X 7'-0"	C		PREFIN.	1	н.м. Н.М.	PNT		D1	T4	011 011	20 20		107	OFFICE	CPT	EX.	EX. PNT	EX. PNT	EX. PNT	EX.	EX.	1.
3'-10" X 3'-10" 3'-10" X 3'-10"				3	H.M. H.M.	PNT PNT		D1			45 45		108	OFFICE	CPT CPT	EX.	EX. PNT EX. PNT	EX. PNT EX. PNT	EX. PNT EX. PNT	EX. EX.	EX.	1.
3'-0" X 7'-0" 3'-0" X 7'-0"	В	WD WD	Prefin. Prefin.	1	H.M. H.M.	PNT		D1	T1	012			- 110	CORRIDOR	VCT	RES	PNT	PNT	PNT	PNT	ACT	1.
6'-0" X 6'-6"				2	WD	STN			4 15			6	111	· STORAGE	VCT	RES	PNT	PNT	PNT	PNT	EX.	
3'-0" X 7'-0" 2'-6" X 7'-0"	B B	H.M. H.M.	PNT PNT	1 EX.	H.M. H.M.	PNT PNT		97 79 	anta. 	010 005	60	2 1, 3	112	CLOSET	EX. CPT	EX. RES	PNT	PNT BRK/GLAZ	PNT BRK/GLAZ	PNT PNT	EX. ACT	
3'-0" X 7'-0" 3'-0" X 7'-0"	B	WD WD	Prefin. Prefin.	EX. EX.	WD	EX.	**************************************			003		1	114	CLASSROOM	CPT	RES	PNT	PNT	BRK/GLAZ	PNT	ACT	
3'-0" X 7'-0"	A		PREFIN.	1	H.M.	PNT		D1	400 401 100 100 100 100 100 100 100	013		1	115	CLASSROOM	CPT	RES	PNT	PNT	BRK/GLAZ	PNT	ACT	
3'-0" X 7'-0" 3'-0" X 7'-0"	B B	WD WD	Prefin. Prefin.	EX. EX.	WD WD	EX.				003	·	1	116	SECURITY OFFICE	CPT EX.	RES EX.	EX.	EX.	 EX.	EX. EX.	ACT EX.	
2'-10" X 7'-0"	A		PREFIN.	EX.	WD	EX.			1977	004		1	118	CLOSET	EX.	EX.	EX.	EX.	EX.	EX.	EX.	
3'-0" X 7'-0" 3'-0" X 7'-0"	B	H.M. WD	PNT Prefin.	1	H.M. H.M.	PNT PNT		D3 D1		007		2, 3	119	CLOSET	EX.	EX.	EX.	EX.	EX.	EX.	EX.	
2'-0" X 7'-0" 3'-0" X 7'-0"	B	WD WD	PREFIN.	EX.	WD	EX.	*****	 D1		003.1	20		120	WOMEN'S RESTROOM	EX. EX.	EX.	EX.	EX.	EX.	EX.	EX.	
3'-0" X 7'-0"	A	WD	PREFIN.	1	H.M.	PNT	D2	D1	1997	011	20		121	STAIRS	RES	EX. RES	PNT	EX. PNT	EX. PNT	EX. PNT	EX. PNT	
3'-0" X 7'-0" 3'-0" X 7'-0"	A A	WD WD		1	H.M. H.M.	PNT PNT		D1 D1	T2 T2	011 012.1	20		123	OFFICE	EX	EX	EX	EX	EX	EX	EX	
2'-10" X 7'-0" 2'-10" X 7'-0"	EX. EX.	WD WD	EX. EX.	EX. EX.	WD WD	EX.	******			001.1			201	WORKROOM/LOUNGE	EX	EX	EX	EX .	EX	EX	EX	
EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	997	002		5, 4	202	CLASSROOM	CPT CPT	RES	PNT PNT	PNT PNT	PNT PNT	PNT PNT	ACT ACT	
EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX.	EX.	*****	EX.		002.1		5, 4	203	OFFICE	CPT	RES	PNT	PNT	PNT	PNT	ACT	
EX.	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX. EX.	11	EX.		001.1		5 (FRAME) 5. 4	204	OFFICE	CPT	RES	PNT	PNT	PNT	PNT	ACT	
EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	EX.	an a sa an	002.1		5, 4	206	OFFICE CLASSROOM	CPT CPT	RES	PNT	PNT PNT	PNT PNT	PNT	ACT ACT	
EX. 3'-0" X 7'-0"	EX. A	EX. WD	EX. PREFIN.	EX. 1	EX. H.M.	EX. PNT	******	EX. D1	<b>ar ar</b> 1999 - Jacobert State (1997) <b>ar ar</b>	002.1	20	5, 4	207	CLASSROOM	CPT	RES	PNT	PNT	PNT	PNT	ACT	
3'-0" X 7'-0" 2'-6" X 7'-0"	A	WD WD		1	Н.М. Н.М.	PNT.	****	D1	ана — на селото на полити с селото на полити на селото со тока на селото на полити на селото на полити на селот на селото на селото на полити на селото на на селото на	015	20		207A	CLOSET	CPT	RES	PNT	PNT	PNT	PNT	ACT	
2'-6" X 7'-0"	A	WD	PREFIN.	1	H.M.	PNT		D1		013.1	20	1	208	CLASSROOM	CPT EX.	RES EX.	PNT	PNT PNT	PNT PNT	PNT PNT	ACT PNT	
2'-4" X 7'-0" 2'-4" X 7'-0"	A	WD WD		1	H.M. H.M.	PNT PNT		D1 D1	46 m) 19	013.2		1	210	STAIRS	RES	RES	PNT	PNT	PNT	PNT	PNT	
3'-0" X 7'-0" 3'-0" X 7'-0"	A	WD WD		1	H.M. H.M.	PNT PNT	Magazara (20, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19	D1		011	20 20		211	CLASSROOM	CPT	RES	PNT	PNT	PNT	PNT	ACT	
3'-0" X 7'-0"	B	WD	PREFIN.	1	H.M.	PNT	141197 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	D1		014	20		212	CLASSROOM ELEVATOR MACHINE RM.	CPT EX.	EX.	EX.	EX.	EX.	EX.	EX.	
3'-0" X 7'-0" EX.	A EX.	WD EX.	PREFIN. EX.	1 EX.	H.M. EX.	PNT EX.		D1 EX.	44 M	011 001.1	20	5	214	CORRIDOR	CPT	RES	PNT	PNT	PNT	PNT	ACT	
2'-10" X 7'-0" 3'-0" X 7'-0"	B	H.M. WD		1	H.M. H.M.	PNT	*****	D1	T1	008	60 20	1	215	MECHANICAL	EX.	EX.	EX.	EX.	EX.	EX.	EX.	
3'-0" X 7'-0"	A		PREFIN.	1	H.M.	PNT	******	D1 D1	<b></b>	011	20		216	STAIRS MEN'S RESTROOM	RES EX.	EX.	EX.	EX.	EX.	PNT EX.	ACT PNT	2.
2'-6" X 7'-0" 2'-6" X 7'-0"	EX. EX,	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX.	EX.	EX.	84 99 	001.1		4, 5	218	WOMEN'S RESTROOM	EX.	EX.	EX.	EX.	EX.	EX.	PNT	2.
3'-0" X 7'-0"	B	H.M.	PNT	1	H.M.	PNT		D1	999 - Angele parties and all the approximation of t	008.1	60	1	219	ELEVATOR LOBBY	EX.	EX.	EX.	EX.	EX.	EX.	EX.	
3'-0" X 7'-0" 3'-0" X 7'-0"	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX. EX.	EX.	EX. EX.	EX.		001.1 001.1			General	Notes	L	<u> </u>			L			
3'-0" X 7'-0" 3'-0" X 7'-0"	A B		PREFIN. PREFIN	1	H.M. H.M.	PNT PNT	D2 D2	D1	un an 	015			1 1	ATERIAL COLOR SELECTIONS WILL E	BE SELECTED BY	OWNER FROM	MATERIAL SAMI	PLES PROVIDED E	BY CONTRACTOR	S	**************************************	
S:																****					<b></b>	
														Inish Key Notes:	1999 (a. a. a				914 gu a bha a dha an	1177, googa	****	
		•					E	•						FLOOR & WALL FINISHES AS REQU	JIRED TO MODIF	Y PLUMBING & T	TOILET PARTITIO	NS.				
JLED			TEMF	PERED (	BLASS			45	MIN RATED GLA	NSS -	4											
SCHEDU		ļ.		*****					]	1	+											
AS			W00	р сная	RAII	U 14	///-0			#¥ 1C											46.000.000.000.000.000.000.000.000.000.0	
SEE PLAN 1 2"	:						+				+								<u> </u>			
		L	W00	$\frown$	ТО МАТС	CH d	5	└W0	OD BASE TO M	АТСН										$\setminus$	FIRE I	RSIDE OF ROOF RATED SEALANT -
			(	2					3				4									R TO CODE PLAN ECTION TRACK AT TOP OF WALL
AS SCHED	******		, AS SC	HED	******		, AS SC	HED	74	4			4								@ 32	" MTL KICKERS TO DECK ABOVE 2" O.C. – ALTERNATING SIDES
3",5"								2"5" TYP							ana ana ang ang ang ang ang ang ang ang				:			Y ABOVE CEILINGS)
									AL EDGE BEAD					CEILI	NG AS SCHEDULED / OCCURS							
2(						~		2:-(						-iQAI-	/ - 5/I	8" GYP BD				_!Q+	<u></u>	
	GLASS	S SCHED				S SCHED		TEMPER	ED GLASS						/ - so	5/8" MTL STUD )UND ATTENUA [*] 8" GYP BD				TR	/ - soι	/8" MTL STUD FRAMING JND ATTENUATION INSUL
(20 MIN AT OPENING)	RATED	A				A.C			AT RATED						,	8" GYP BD E AS SCHEDUL	ED- BOTH SIDES				× '	' GYP BD AS SCHEDULED- BOTH SIDES
		1				FIN FL											ANT- BOTH SIDES				Y	ISTICAL SEALANT- BOTH SIDES
A	amine an anna an a			в								· · · · · · · · · · · · · · · · · · ·								1H		
ng Key Notes:														(U.O.N.)					^	478 (U.O.N		
NING - DOOR AND FRAME T Y OPENING, SECURE MASC						D VERIFY	OPENING SIZE	REPAIR DAMAGE	D SUBSTRATES (	Caused by F	RAME REN	OVAL.		$1 \frac{WALL TY}{1" = 1'-0"}$	PE '1'				2	$> \frac{WAL}{1''=1}$	L TYPE '2'	
(TERIOR DOOR. ANDLE LOCKSET. IG ERAME & DOOR																			$\searrow$	/ 1=1	U	
IG FRAME & DOOR. E AND TRIM TO MATCH EXIS	TING, INC	LUDING	NOOD CH	IAIR RAI			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~															
																	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	<b></b>	a construction of Approximation			

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## PARTNERS



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### CONSULTANT

KEY PLAN

### OWNER

Kalamazoo Covenant Academy

PROJECT NAME

Kalamazoo Covenant Academy

400 W. Crosstown Parkway Kalamazoo, MI, 49007

-----PROJECT NO.

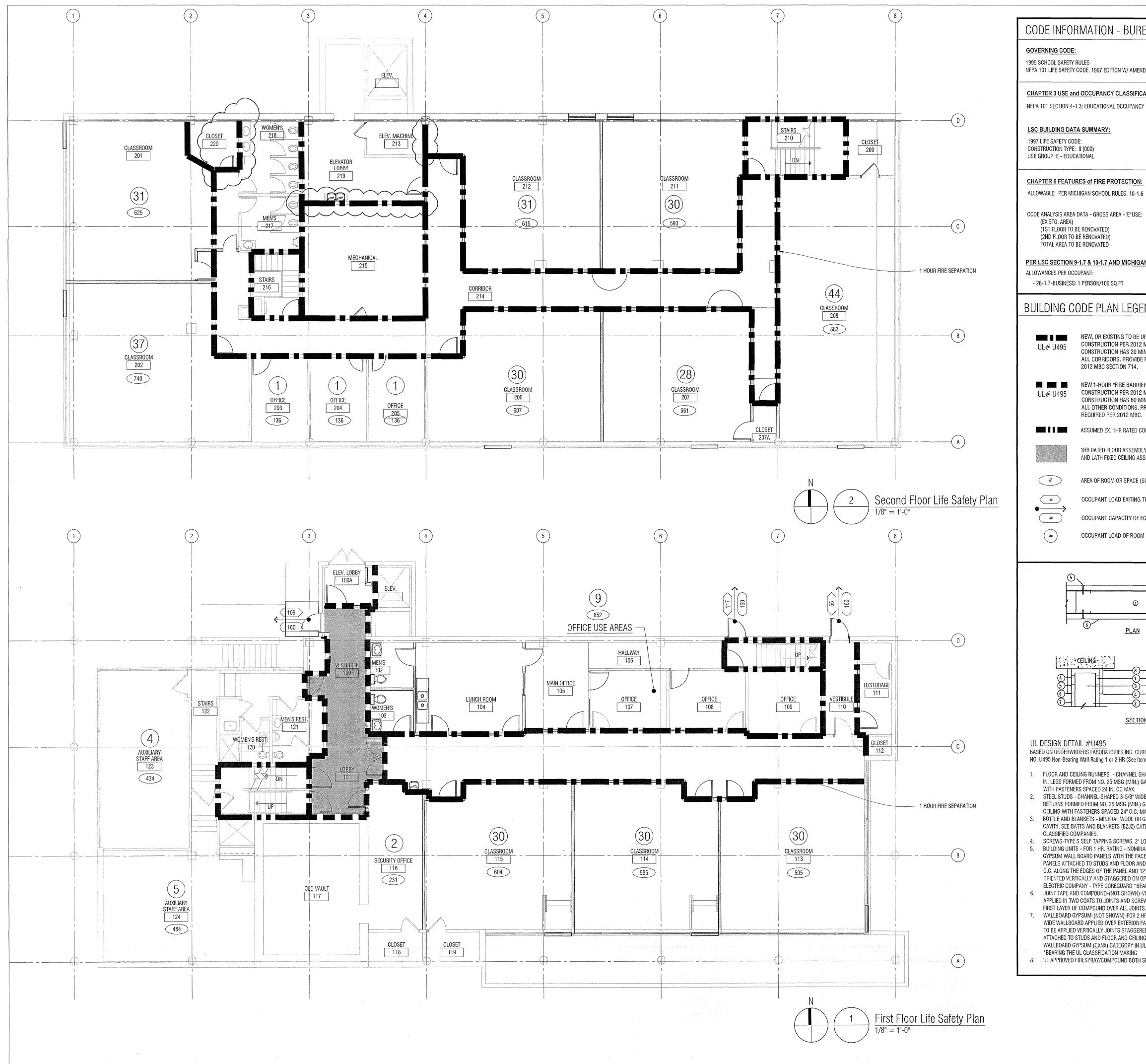
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## ISSUES / REVISIONS

Bids/Construction	9/21/16
BFS Review Response	11/7/16
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BCC Bulletin	03/23/17

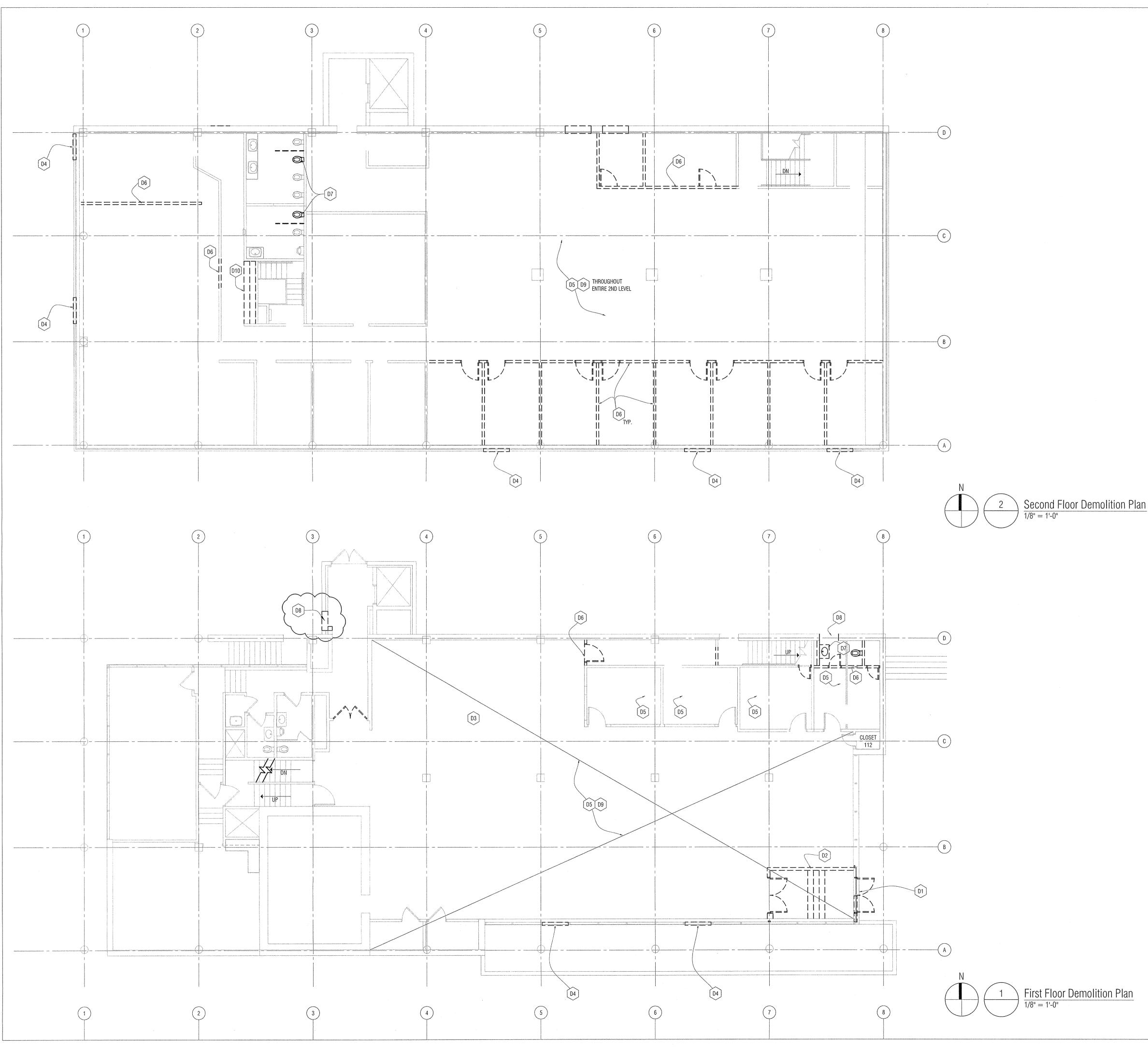
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TJO	
APPROVED BY	
DWG	
SHEET NAME	
SCHEDULES	

SHEET NO. A0-03



UREAU OF FIRE SERVICES	CODE INFORMATION - BUREAU OF CONSTR. CODES	PARTNERS
	GOVERNING CODES:	
AMENDMENTS (LSC)	2012 MICHIGAN BUILDING CODE w/ AMENDMENTS (MBC) 2011 NATIONAL ELECTRICAL CODE w/ AMENDMENTS (NEC) 2012 MICHIGAN MECHANICAL CODE w/ AMENDMENTS (MMC) 2012 MICHIGAN PLUMBING CODE w/ AMENDMENTS (MPC)	
SIFICATION: PANCY	2009 ICC / ANSI A 117.1 CLASSIFICATION OF OCCUPANCY (PER MBC SECTION 305) - USE GROUP	
	E - EDUCATIONAL <u>CONSTRUCTION TYPE (PER MBC CHAPTER 6)</u> - EXISTING BUILDING : TYPE IIB, NOT FIRE SUPPRESSED - ADDITION AREAS : TYPE IIB - 'E' USE GROUP	
10-1.6	ALLOWABLE HEIGHT AND BUILDING AREA (PER MBC TABLE 503)	PARTNERS in Architecture, PLC 65 MARKET STREET MOUNT CLEMENS, MI 48043
USE: = 15,455 SQ FT = 4,686 SQ FT = 8,285 SQ FT = 12,971 SQ FT	CODE ANALYSIS AREA DATA - GROSS AREA - 'E' USE:(EXISTG. AREA)=15,455 SQ FT(1ST FLOOR TO BE RENOVATED)=4,686 SQ FT(2ND FLOOR TO BE RENOVATED)=8,285 SQ FTTOTAL AREA TO BE RENOVATED=12,971 SQ FT	P 586.469.3600 F 586.469.3607 <u>Statement of Intellectual Property</u> The ideas, concepts, drawings and thoughts conveyed herein are the intellectual property of PARTNERS in
HIGAN SCHOOL RULES 10-1.7.1	OCCUPANT LOADS WERE CALCULATED BASED ON THE FOLLOWING ALLOWANCES. THE MOST RESTRICTIVE APPLIES.	Architecture, PLC, 65 Market Street, Mount Clemens, MI, 48043 (P 586.469.3600). This set of drawings, in whole or in part, may not be reproduced, without the written consent of PARTNERS in Architecture, PLC. This information is protected under U.S. Copyright Law, all rights reserved.
GEND	PER MBC TABLE 1004.1.1         ASSEMBLY UNCONCENTRATED (TABLES AND CHAIRS):       1/15 SF (NET)         STORAGE/MECH:       1/300 SF (GROSS)         OFFICE:       1/100 SF (GROSS)         CLASSROOM:       1/20 SF (GROSS)	© Copyright 2015 CONSULTANT
D BE UPGRADED, 1-HOUR "FIRE PARTITION" 2012 MBC SECTION 708. THIS WALL 20 MINUTE DOOR AND FRAME PROTECTIVES FOR DVIDE FIRE / SMOKE DAMPERS AS REQUIRED PER 14.	OCCUPANCY DATA - GROSS AREA - 'E' USE: 1ST FLOOR TO BE RENOVATED = 4,686 SQ FT 110 OCCUPANTS 2ND FLOOR TO BE RENOVATED = 8,285 SQ FT 234 OCCUPANTS TOTAL AREA TO BE RENOVATED = 12,971 SQ FT 335 OCCUPANTS	
ARRIER" FOR "EXIT PASSAGEWAY" 2012 MBC SECTION 707. THIS WALL 60 MINUTE DOOR AND FRAME PROTECTIVES FOR INS. PROVIDE FIRE / SMOKE DAMPERS AS	GENERAL LIFE SAFETY NOTES	
MBC. TED CONSTR STAIR ENCL. W/ NEW 60 MIN. DOORS SEMBLY. CONCRETE ON METAL DECK WITH PLASTER	<ol> <li>ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS SHALL BE IDENTIFIED WITH SIGNS OF STENCILING (WHERE WALL AREAS ARE CONCEALED FROM VIEW). LETTERS MUST BE A MIN. 3" IN HEIGHT WITH A MIN. 3/8" STROKE IN CONTRASTING COLOR, AND READ "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS". LOCATE WITHIN 15'-0" OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30'-0".</li> </ol>	KEY PLAN
NG ASSEMBLY BELOW. ACE (SQUARE FEET)	2. THESE CODE ANALYSIS DRAWINGS (SHEET A0-02), NOTES, PLANS AND WALL IDENTIFICATION TYPES AND LOCATIONS ARE FOR FIRE RATINGS AND / OR SMOKE BARRIERS AS REQUIRED FOR LIFE SAFETY AND BUILDING CODE COMPLIANCE. ALL OTHER CONSTRUCTION REQUIREMENTS ARE INDICATED ON THE CONSTRUCTION DOCUMENTS.	
TING THROUGH EGRESS COMPONENT ( OF EGRESS COMPONENT	3. ALL FIRE RATED WALLS OF ANY TYPE SHALL BE SEALED TIGHT TO ROOF DECK SYSTEM ABOVE WITH UL APPROVED MATERIAL BY EITHER JOHNS MANSVILLE FIRETEMP, HILTI FIRESTOP COMPOUND, OR 3M. ALL PRODUCTS / MATERIALS MUST BE UL APPROVED AND CLASSIFIED AND SUBMITTED FOR REVIEW AND APPROVAL BY ARCHITECT BEFORE	OWNER
ROOM OR AREA	APPLICATION/INSTALLATION.	Kalamazoo Covenant
(5)	PROJECT SCOPE NARRATIVE:	Academy
	RENOVATIONS TO CONSTRUCT CLASSROOM SPACES WITHIN THE CURRENTLY VACANT BANK FACILITY.	PROJECT NAME
3 (2) AN (7)	THE EXISTING BUILDING HAS BEEN PURCHASED BY THE MUSKEGON COVENANT ACADEMY AND TO BE OPERATED AS AN EDUCATIONAL FACILITY. THE ACADEMY WILL PROVIDE EDUCATION FOR 6-12 GRADES. CLASS SIZE VARIES BETWEEN 16-20 STUDENTS PER CLASSROOM.	Kalamazoo Covenant Academy
CEILING	THE EXISTING BUILDING WILL BE MAINTAINED FOR THE ENTIRE FACILITY FOR EDUCATIONAL INSTRUCTION BY NEW OWNER.	
	THE MECHANICAL ROOMS, SERVICE AREAS, BOILER ROOM WILL REMAIN FUNCTIONAL DURING THE CONSTRUCTION ACTIVITIES AND UPGRADED TO PROVIDE VENTILATION AND LIGHTING REQUIREMENTS PER CURRENT CODES.	400 W. Crosstown Parkway Kalamazoo, MI, 49007 –––––––––––––––––––––––––––––––––––
	TEMPORARY CLOSURE/SEPARATION WALL AND DOORS BETWEEN THE FIRST AND FLOOR WILL BE PROVIDED TO CONSTRUCT (3) CLASSROOMS ON THE LOWER LEVEL AS SOON AS POSSIBLE. RENOVATIONS WILL CONTINUE ON THE SECOND FLOOR TO ADD CLASSROOMS AS ENROLLMENT IS INCREASED FOR THE FOLLOWING SCHOOL YEAR.	16-151 ISSUES / REVISIONS
C. CURRENT FIRE RESISTANCE DIRECTORY DESIGN See Items 5 & 6) VEL SHAPED RUNNERS, 3-5/8 IN. WIDE (MIN.) 1-1/4 IIN.) GALV. STEEL, ATTACHED TO FLOOR AND CEILING IX.	MECHANICAL, ELECTRICAL SYSTEMS MODIFICATIONS AND REPAIRS ARE SUBMITTED AS COMPANION PROJECTS BY THE REGISTERED ENGINEERING DESIGNERS. THE SYSTEM MODIFICATIONS INCLUDE:	Bids/Construction9/21/16BFS Review Response11/7/16BCC Review1/13/17BCC Bulletin03/23/17
8" WIDE (MIN.), 1-1/4" LEGS, 3/8" FOLDED BACK MIN.) GALV. STEEL, ATTACHED TO FLOOR AND D.C. MAXIMUM. DL OR GLASS FIBER BATTS COMPLETELY FILLING STUD IZ) CATEGORY IN UL MANUAL FOR NAMES OF	<ul> <li>NEW EMERGENCY LIGHTING FIXTURES AND SYSTEM</li> <li>GENERAL ROOM LIGHTING FIXTURES</li> <li>MECHANICAL HEATING/VENTILATION SYSTEM REPAIRS</li> <li>FIRE ALARM SYSTEM MODIFICATIONS TO SUPPORT CURRENT WORK SCOPE</li> </ul>	BCC Review03/31/17Construction Code Appeal06/05/17
S, 2" Long (1 Hr) and 2-1/2" long (2 Hr). Ominal 5/8 or 3/4" thick, 4 Ft wide, faced IE faced side on the interior wall cavity. Or and ceiling runners with screws spaced 8" and 12" o.C. In the field of the panel. Joints	MECHANICAL SPLIT SYSTEM UNITS IN OFFICES AND CLASSROOMS AS BUDGET ALLOWS.	
ON OPPOSITE SIDES OF THE ASSEMBLY, GENERAL D *BEARING THE UL CLASSFICATION MAKING WN)-VINYL, DRY OR PREMIXED JOINT COMPOUND	TEMPORARY OCCUPANCY NOTES	DRAWN BY 
SCREW HEADS: PAPER TAPE, 2" WIDE EMBEDDED IN JOINTS. DR 2 HR. RATING-ANY CLASSIFIED 5/8" THICK (MIN.) 4' RIOR FACE OF BUILDING UNIT (ITEM 5). WALLBOARD GGERED 24" FROM BUILDING UNIT (ITEM 5) AND	<ol> <li>CROSS HATCHED AREA REPRESENTS COMPLETED FIRST FLOOR THAT WILL BE OCCUPIED DURING THE FINAL (2) MONTHS OF CONSTRUCTION ON THE SECOND FLOOR. ONLY ONE CLASSROOM WILL BE UTILIZED INITIALLY.</li> <li>1-HR RATED TEMPORARY FIRE SEPARATION WALLS ARE CONSTRUCTED TO SEPARATE THE</li> </ol>	CHECKED BY DWG APPROVED BY
CEILING RUNNERS WITH SCREWS SPACED 8" O.C. SEE Y IN UL MANUAL FOR NAMES OF MANUFACTURERS ING 30TH SIDES OF WALL	OCCUPIED AREA FROM CONSTRUCTION AREA. SECOND FLOOR CONSTRUCTION SHOULD BE COMPLETED IN 60 DAYS. 3. ALL LIFE SAFETY SYSTEMS ARE CURRENTLY IN PLACE FOR BOTH FLOORS.	DWG SHEET NAME LIFE SAFETY /
*******		COMPOSITE PLAN

SHEET NO. A1-01



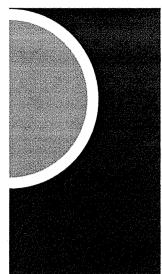
#### DEMO FLOOR PLAN - GENERAL NOTES:

- A. ALL DEMOLITION DRAWINGS AND DEMOLITION DETAILS ARE PROVIDED TO SHOW THE GENERAL SCOPE OF THE DEMOLITION WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL DEMOLITION WORK NECESSARY TO ACCOMPLISH NEW WORK. THE DEMOLITION DRAWINGS AND DETAILS MAY NOTE TYPICAL ITEMS IN SOME AREAS, WHICH APPLY IN OTHER AREAS (AND ARE DESIGNATED WITH DASHED, HIDDEN OR STRUCK THRU LINES). COORDINATE ALL DEMOLITION WORK WITH ALL ARCHITECTURAL, MECH. AND ELEC. DRAWINGS. CONTRACTOR RESPONSIBLE TO REFERENCE ALL DRAWINGS/ SPECIFICATIONS TO CONFIRM EXTENT OF DEMOLITION WORK.
- B. ALL REMOVED ITEMS, WALLS, FLOORS CEILING, OPENINGS, ETC ARE TO BE PATCHED/REPAIRED AND PREPPED TO RECEIVE NEW WORK AND/OR FINISHES.
- C. ALL CONSTRUCTION AND DEMOLITION MEANS, METHODS AND SAFETY PRECAUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- D. WALL REMOVAL THAT TERMINATES INTO A WALL OR CEILING TO REMAIN SHALL BE COMPLETELY REMOVED FREE OF PROJECTIONS, READY TO RECEIVE NEW WORK.
- E. REMOVE ALL ITEMS PROJECTING FROM EXISTING WALLS OR FLOORS TO REMAIN (BLOCKING, SCREWS, FASTENERS, PIPES, CONDUITS, MOUNTING PLATES, FIXED EQUIPMENT, ETC). PATCH AND REPAIR FOR NEW FINISH.
- F. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND UNDERSTANDING EXISTING CONDITIONS PRIOR TO BIDDING.
- G. CONTRACTOR SHALL PROTECT EXISTING BUILDING ELEMENTS AND SITE FROM DAMAGE CAUSED BY CONSTRUCTION OR CONSTRUCTION TRADES. CONTRACTOR SHALL REPAIR ALL DAMAGED AREAS (IDENTIFIED BY OWNER, ARCHITECT, OR CONSTRUCTION MANAGER) AT NO ADDITIONAL COST.
- H. MAINTAIN EXISTING FIRE RATING WHERE OCCURS AND WHERE POSSIBLE DURING DEMOLITION. REFER TO CODE AND LIFE SAFETY SHEETS FOR MORE INFORMATION AS WELL AS CONSTRUCTION MANAGER'S INSTRUCTIONS.
- I. ASBESTOS AND OTHER HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER'S ABATEMENT CONTRACTOR PRIOR TO START OF CONSTRUCTION. IF ANY SUSPECTED HAZARDOUS MATERIAL IS ENCOUNTERED, STOP WORK IN THAT AREA AND IMMEDIATELY INFORM THE ARCHITECT, CONSTRUCTION MANAGER, AND OWNER.
- J. DISPOSE OF ALL DEMOLITION MATERIALS LEGALLY OFF-SITE, U.O.N.
- K. REMOVE ALL PICTURES, FRAMES & PLAQUES THAT MAY BE DAMAGED DURING CONSTRUCTION AND RETURN TO OWNER.
- L. CONTRACTOR IS TO DEMO AND PREPARE EXISTING WALL CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL AND ELECTRICAL WORK WITHIN EXISTING WALL.
- M. PREP. ALL MASONRY OPENINGS TO RECEIVE NEW TOOTHED-IN MASONRY FOR LIKE NEW APPEARANCE WHERE DEMOLITION OCCURS AND WALL IS VISIBLE.
- N. CONTRACTOR TO COORDINATE EXIST. CONC. SLAB REMOVAL THAT IS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND PLUMBING WITH DEMOLITION CONTRACTOR.
- 0. REMOVE ALL EXISTING EXPOSED CONDUIT NOT IN USE PRIOR TO OR AFTER NEW WORK.
- P. ALL DEVICES SUCH AS SECURITY CAMERAS, CLOCKS, DVD, VCR, WIFI WIRELESS ROUTERS, ETC, AND THEIR ASSOC. COMPONENTS ARE TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER.
- Q. THERE MAY BE EXISTING GLUE-UP CEILING PADS ABOVE SUSPENDED CEILING SYSTEMS. SOME PADS HAVE DETACHED FROM CEILING AND ARE LAYING ABOVE SUSPENDED CEILING SYSTEM, DISPOSE OF PADS PROPERLY.

#### DEMO FLOOR PLAN KEY NOTES:

- D1 REMOVE CONCRETE STAIRS AND MASONRY WALL. SALVAGE BRICK TO PATCH EXTERIOR WALLS.
- D2 REMOVE STOREFRONT FRAMING AT VESTIBULE
- D3 REMOVE CASEWORK TELLER STATIONS IN THEIR ENTIRETY. PATCH
- REMAINING SUBSTRATE AS REQUIRED FOR NEW CONSTRUCTION.
- D4 REMOVE INSULATED GLASS FOR INSTALLATION OF OPERABLE WINDOW. D5 REMOVE ALL FLOOR FINISHES (CARPET AND TILE) AND PREPARE FOR NEW FLOOR FINISH.
- D6 REMOVE WALLS IN ENTIRETY AND PATCH REMAINING SUBSTRATE FOR NEW FINISHES.
- D7 REMOVE PLUMBING FIXTURE AND TOILET PARTITION. PREPARE FLOOR FOR FINISH.
- D8 REMOVE MASONRY AS REQUIRED FOR DOOR INSTALLATION.
- D9 REMOVE SUSPENDED ACOUSTICAL LAY-IN CEILING IN ITS ENTIRETY
- D10 REMOVE EXISTING CASEWORK AND SINK IN ITS ENTIRETY, INCLUDING BUILT-IN APPLIANCES.

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KEY PLAN

#### OWNER

### Kalamazoo Covenan Academy

PROJECT NAME

Kalamazoo Covenant Academy

400 W. Crosstown Parkway Kalamazoo, MI, 49007

PROJECT NO. 16-151

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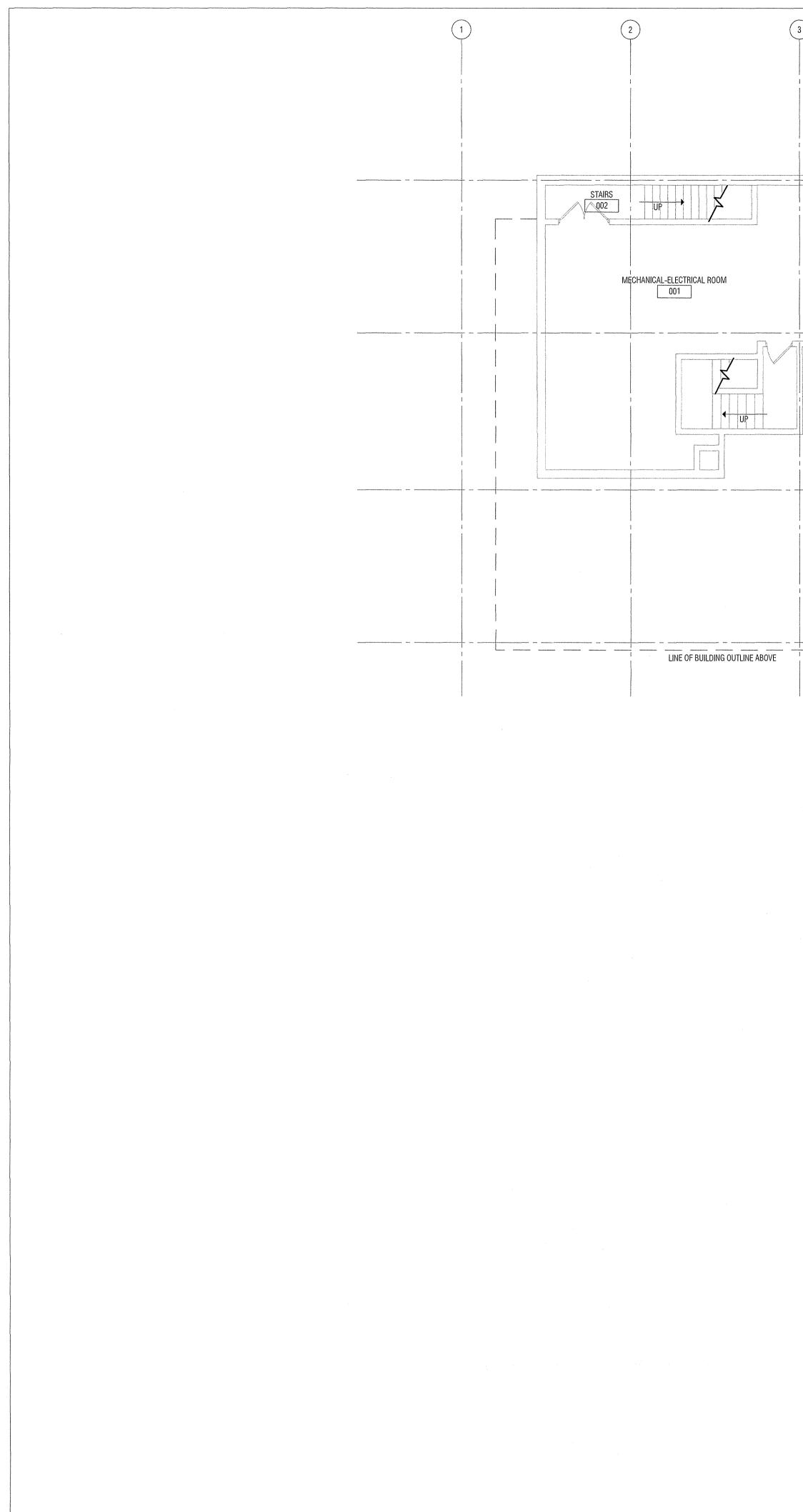
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ISSUES / REVISIONS	
Bids/Construction	9/21/16
BFS Review Response	11/7/16
BCC Review	1/13/17
BCC Bulletin	03/23/17
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DWG SHEET NAME

DEMOLITION PLANS



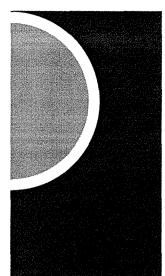
3	4	5	6		8	
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			-	-	, 	(A)
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					$\bigwedge$ $1$	$\frac{1}{1/8"} =$
						/ 1/8" =

### FLOOR PLAN - GENERAL NOTES:

- ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESS ARE SHOWN NOMINAL - SEE WALL TYPES ON SHEET A0-03 FOR ACTUAL THICKNESS.
- B. COORDINATE SIZE AND LOCATION OF ALL DUCT, SHAFT AND LOUVER OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS.
- C. ALL EXPOSED CORNERS OF MASONRY BLOCK ARE TO BE BULLNOSED.
- D. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- E. EXISTING MASONRY WALL INTERSECTIONS WHICH ARE LEFT EXPOSED AFTER DEMOLITION OF ADJACENT MASONRY CONSTRUCTION MUST BE PATCHED AND REPAIRED WITH NEW MASONRY OR EXISTING BRICK VENEER, TOOTH-IN TO MATCH EXISTING COURSING AND BOND PATTERN, TYPICAL AT ALL LOCATIONS.
- F. AT ALL REMOVED CONCRETE BLOCK WALLS, REMOVE ANY DEFECTS THAT PROTRUDE ABOVE ANY FLOOR FINISH AND LEVEL SURFACE WITH HYDRAULIC CEMENT UNDERLAYMENT. AS REQUIRED FOR LEVEL INSTALLATION OF NEW FLOOR FINISH.
- G. ALL NEW WALLS TO EXTEND TO UNDERSIDE OF DECK- REFER TO WALL TYPES ON DRAWING A0-03 FOR CONSTRUCTION METHOD.
- PATCH ALL EXISTING SURFACES AFFECTED BY DEMOLITION ACTIVITIES TO PROVIDE SMOOTH, CLEAN SURFACES TO RECEIVE NEW FINISHES.
- I. FIRE RATED PARTITIONS ARE INDICATED ON LIFE SAFETY PLANS ON SHEET A1-01. TOP OUT ALL EXISTING WALLS TO REMAIN THAT ARE NOTED AS FIRE PARTITIONS ON LIFE SAFETY PLANS BY EXTENDING FRAMING AND GYPSUM BOARD AS REQUIRED AND SEAL TO DECK WITH SPRAY SEALANT.
- J. REFER TO SCHEDULES SHEET A0-03 FOR ALL FLOOR TRANSITIONS.
- K. REFER TO DRAWING A0-01 FOR ABBREVIATIONS AND OTHER SYMBOL DEFINITIONS.
- L. FIELD VERIFY ALL EXISTING OPENINGS TO RECEIVE NEW WORK PRIOR TO FABRICATION OF ANY FRAME TYPES - NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- M. REFER TO PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS / CABINETS(FEC) TO BE INSTALLED SEMI-FLUSH. REFER TO WALL CONSTRUCTION.

Basement Floor Plan

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CONSULTANT

#### KEY PLAN

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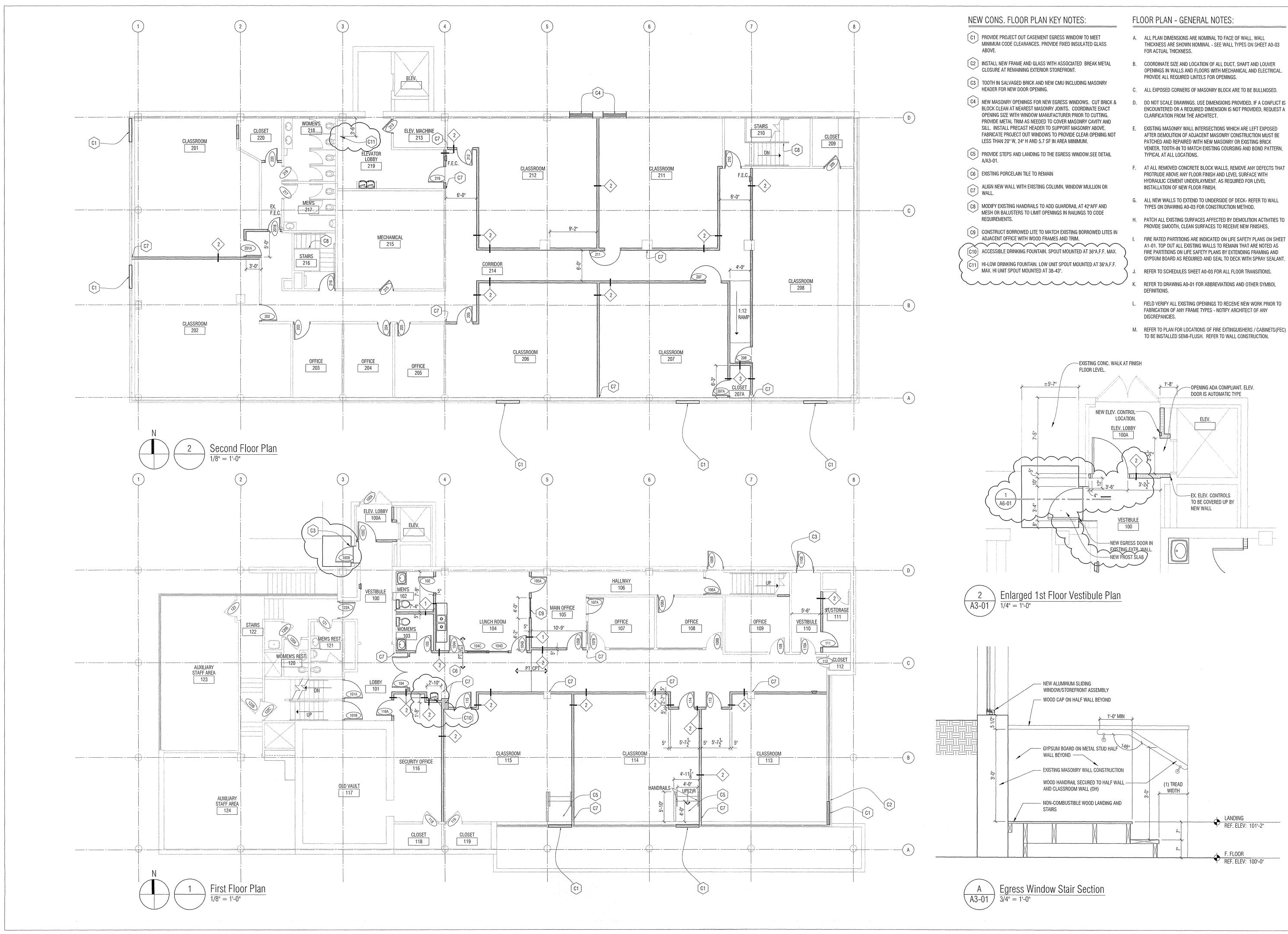
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APPROVED BY

DWG SHEET NAME

BASEMENT PLAN

SHEET NO. A3-00



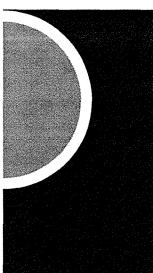
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- THICKNESS ARE SHOWN NOMINAL SEE WALL TYPES ON SHEET A0-03
- OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL.
- ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A
- AFTER DEMOLITION OF ADJACENT MASONRY CONSTRUCTION MUST BE VENEER, TOOTH-IN TO MATCH EXISTING COURSING AND BOND PATTERN,

- FIRE RATED PARTITIONS ARE INDICATED ON LIFE SAFETY PLANS ON SHEET A1-01. TOP OUT ALL EXISTING WALLS TO REMAIN THAT ARE NOTED AS FIRE PARTITIONS ON LIFE SAFETY PLANS BY EXTENDING FRAMING AND GYPSUM BOARD AS REQUIRED AND SEAL TO DECK WITH SPRAY SEALANT.

- M. REFER TO PLAN FOR LOCATIONS OF FIRE EXTINGUISHERS / CABINETS(FEC)

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KEY PLAN

# OWNER Kalamazoo Covenant Academy

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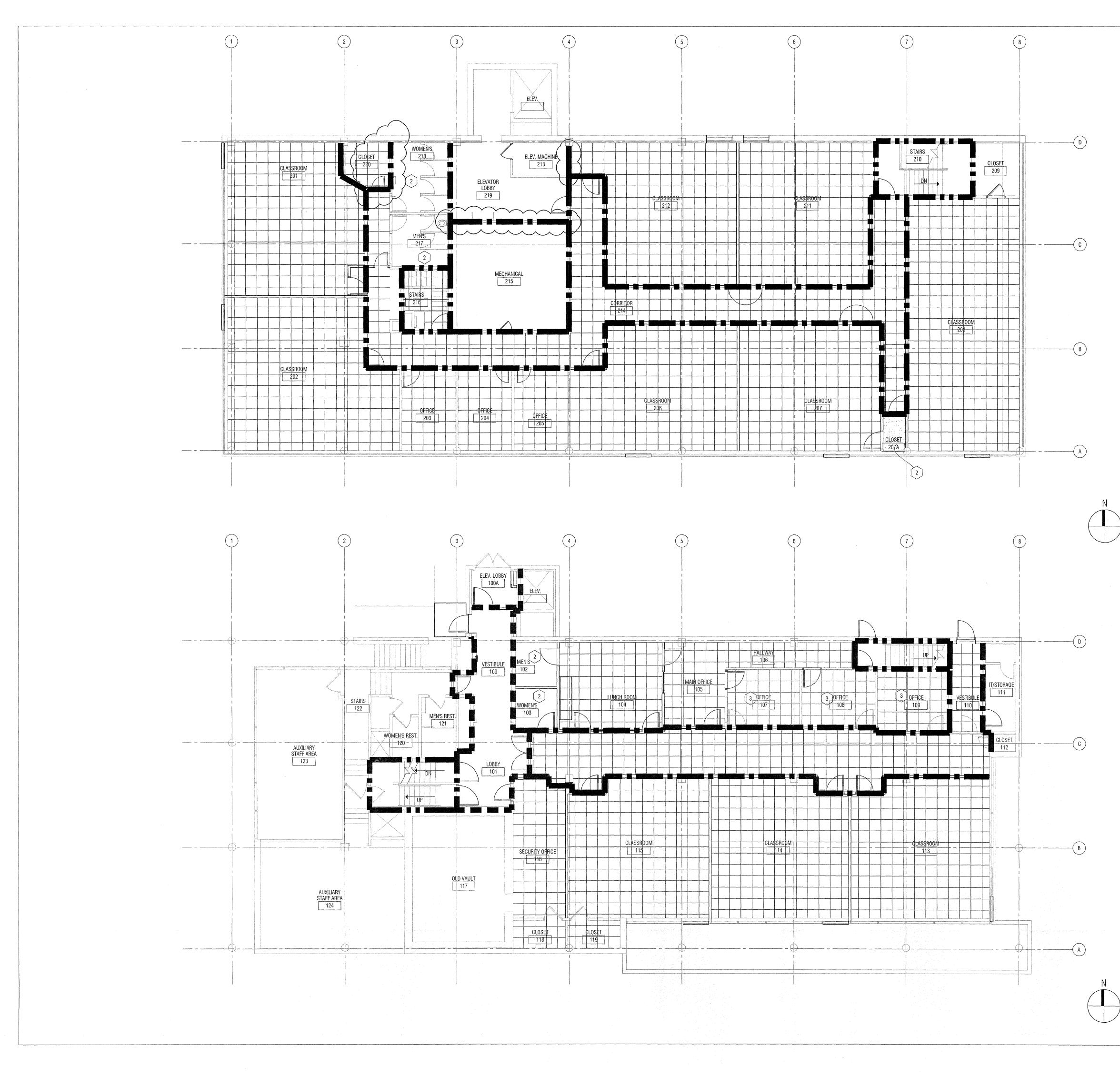
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03/31/17

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APPROVED BY	
DWG	
SHEET NAME	
FLOOR PLA	NS

SHEET NO. A3-01



## REFLECTED CEILING PLAN - GENERAL NOTES

- A. REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS
- B. REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND SPECIFICATIONS
- C. REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND
- D. ALL LIGHT FIXTURES ARE TO BE CENTERED WITHIN CEILING TILE AND GYP SOFFIT U.O.N.
- E. CEILING GRID IS TO BE CENTERED IN ROOM U.O.N.
- F. AT LOCATIONS WHERE SOFFIT TERMINATES TO A MASONRY CORNER - GYP. BD. TO BE SET BACK 1" FROM FACE OF WALL
- G. PAINT ALL EXPOSED STRUCT., MECH., AND ELEC.

#### REFLECTED CEILING PLAN - KEY NOTES

- (1) ACOUSTICAL CEILING TILE AND GRID (ACT-1)-TYPICAL U.O.N.
- 2 GYPSUM BOARD SOFFIT / CEILING
- 3 EXISTING TILE & GRID

RETURNS

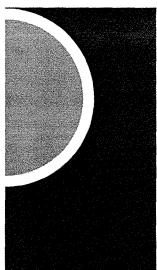
NEW, OR EXISTING TO BE UPGRADED, 1-HOUR "FIRE PARTITION" CONSTRUCTION PER 2012 MBC SECTION 708. PROVIDE FIRE / SMOKE DAMPERS AS REQUIRED PER 2012 MBC SECTION 714. TOP OUT ALL EXISTING WALLS TO REMAIN BY EXTENDING FRAMING AND GYPSUM BOARD AS REQUIRED AND SEAL TO DECK WITH SPRAY SEALANT.

Second Floor Reflected Ceiling Plan 1/8" = 1'-0"

First Floor Reflected Ceiling Plan

1/8" = 1'-0"

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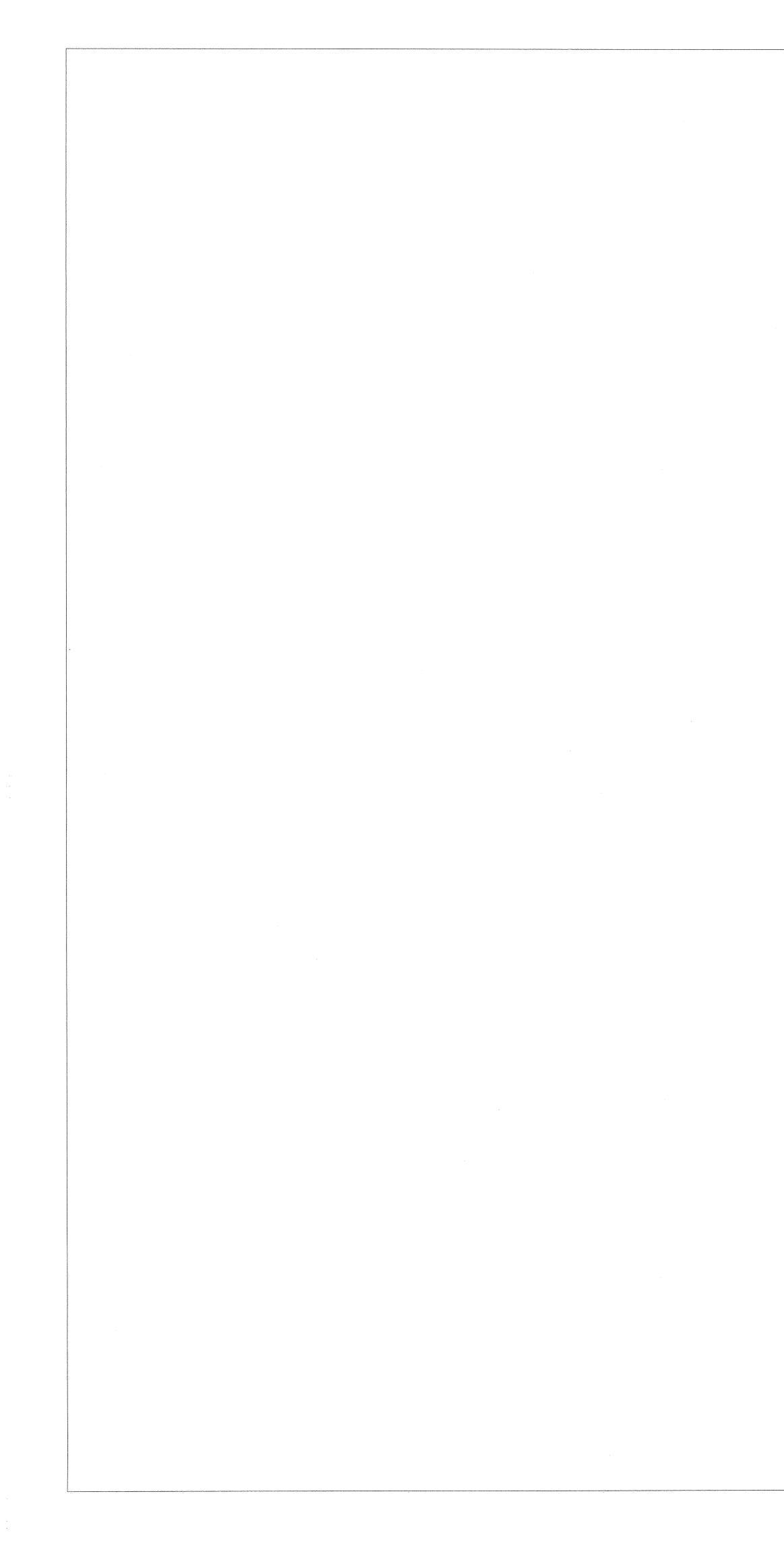
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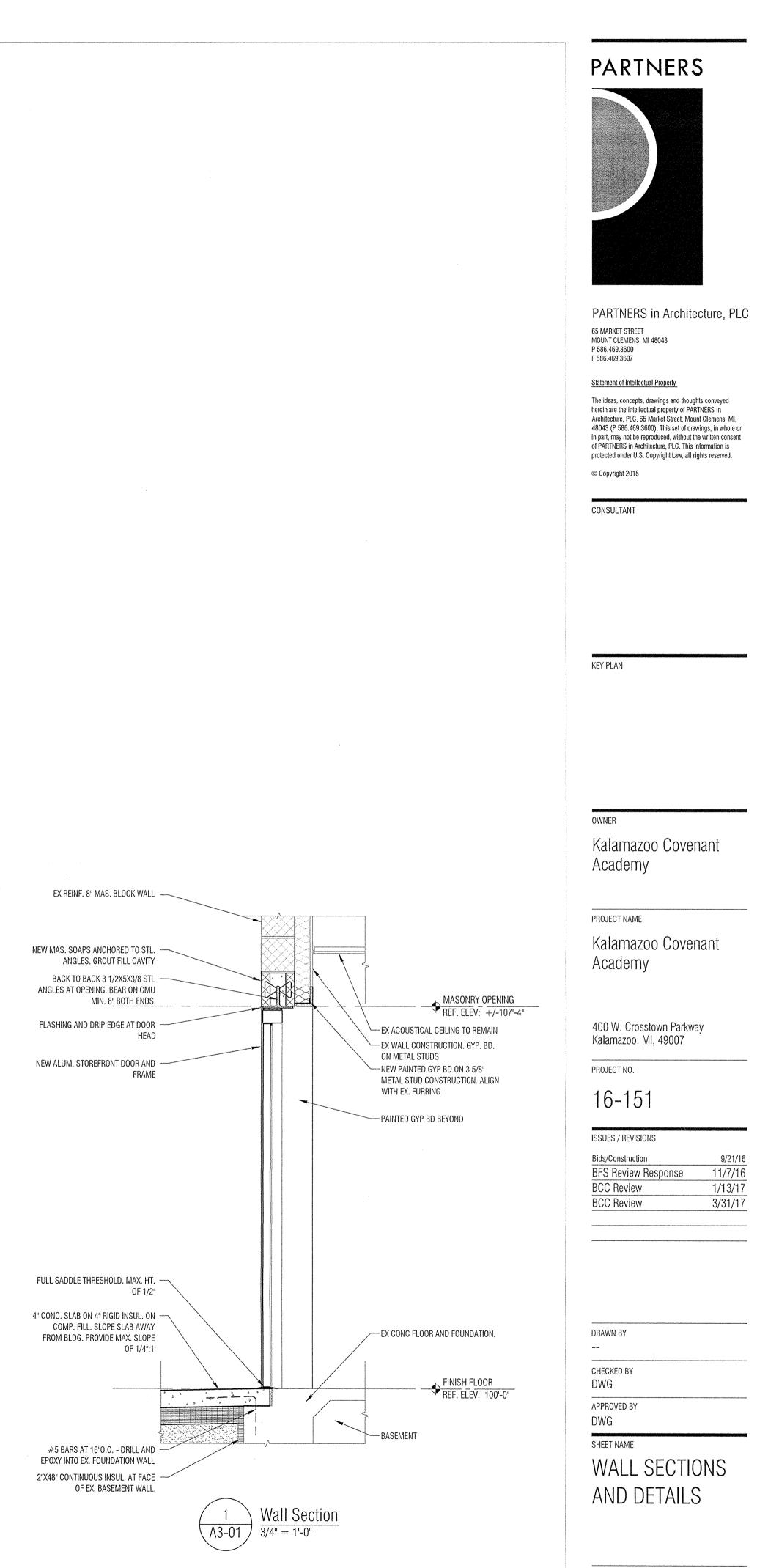
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DWG	
SHEET NAME	
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UEILIN	G PLANS

SHEET NO. A4-01





sheet NO. А6-01

#### Petition Application for Certificate of Acceptability

140/115/130/98

#### Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes P.O. Box 30255, Lansing, MI 48909 www.michigan.gov/bcc

Penalty:       Failure to provide the information may result in denial of your request.       are available upon request to individuals with disabilities.         CODE UNDER WHICH APPROVAL IS SOUGHT (Limited to One Code Per Petition)       Image: Description of the information may result in denial of your request.       Image: Description of the information may result in denial of your request.         Image: Description of the information may result in denial of your request.       Image: Description of the information may result in denial of your request.       Image: Description of the information may result in denial of your request.         Image: Description of the information may result in denial of your request.       Image: Description of the information may result in denial of your request.       Image: Description of the information of the information of the information may result in denial of your request.         Image: Description of the information may result in denial of your request.       Image: Description of the information of the inf				Agency Use Only				
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	Aurora	Nebraska	68818					

#### Instructions for Petition Application for Acceptability

Nature of Petition: Check only one box. A component is a preassembled unit of different materials or products that will be incorporated into a building.

**Code Under Which Approval is Sought:** Check only one box. If there are requirements in 2 or more codes for the approval sought, an additional petition and fee must be submitted.

Name: Provide the name of the material, product, or method/manner of construction or installation.

Other Identification: Provide the model numbers.

**Description:** Provide a description of the material, product, method or component.

Intended Use: Give a brief description of how the product is incorporated into a building or structure and its purpose.

Laboratory Test and/or Evaluation By: List all tests performed and provide copies as listed above.

Pilot Service Experience and Conditions: Provide report of finding as listed above.

Restrictions for Use: Identify any restrictions or conditions of use.

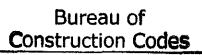
Other: Any documentation or description necessary to demonstrate why this application should be

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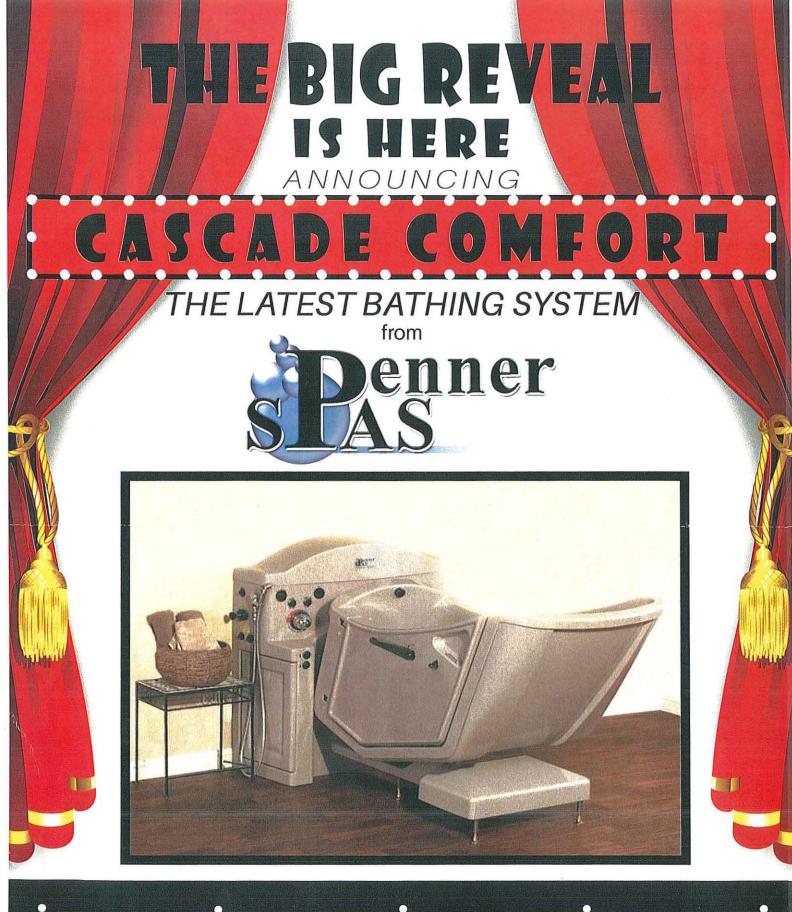


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APPROVAL REQUESTED	2	
NATURE OF PETITION (Limited to	One Item Per Petition)	
Material	Product	Method/Manner of Construction or Installation
NAME OF MATERIAL, PRODUCT,	OR METHOD/MANNER OF CONSTRUCTION OR INS	STALLATION
Cascade Comfort Bat	thing System	
OTHER IDENTIFICATION (Model I	-	
560010-1, 560010-1L	., 560010-2, 560010-2L, 560010-2	X, 560010-XL
DESCRIPTION (Use Additional Shi		and the manufactor This systems is shown by an it does not have an
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Standards	ns DICBO	Recommendations by Model Code Bodies Laboratory Test/Evaluation
Display Catalog		
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LABORATORY TEST AND/OR EV/	ALUATION BY	
UL E213698		
PILOT SERVICE EXPERIENCE AN	ND CONDITIONS (Use Additional Sheets If Necessary)	
		bathing systems since April 2001. Our current systems are
approved by the Bure	eau of Constructioin Codes in Mic	higan 1593-PA and 1647-PA.
RESTRICTIONS FOR USE (Use A	dditional Sheets If Necessary)	
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BCC-247 (07/15) Page 2



 ONE STEP<br/>disinfecting!
 NO<br/>exposed wires<br/>or hoses
 Easy resident<br/>transfer into<br/>spa
 Fast-fill<br/>mixing valve

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# **Cascade Comfort Spa**



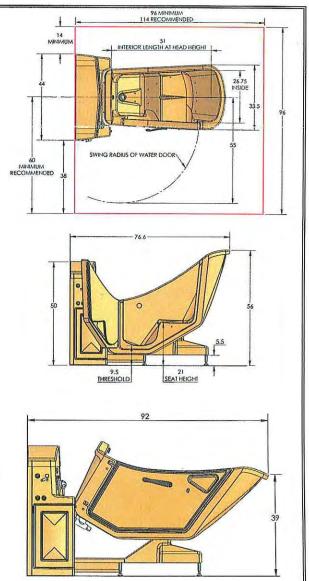




101 Grant Street, Aurora, NE 68818 (800) 732-0717 Comfort Spa FEATURES may leave you **STARSTRUCK!** 

- 9¹/₂" Leg-transfer into spa
- ENCLOSED CABINET TO ELIMINATE EXPOSED HOSES AND WIRES
- SPORICIDE INJECTION SYSTEM
- FAST-FILL MIXING VALVE
  - . . . . . . . . . .

#### CASCADE COMFORT SPA Room & Spa Dimensions



www.PennerPa_{\$72}ientCare.com





# COMFOR T AQUA-AIRE INSTALLATION / ASSEMBLY INSTRUCTIONS



Box 523 / 101 Grant St. Aurora, NE 68818 560745 Revision A - 03/17/16

**1-866-PENNERS** 

1-866-736-6377

1-800-732-0717

SPAS MODEL NUMBERS- 560010-1, 560010-1L, 560010-2,

E-mail Address: pennersales@hamilton.net Web Site: www.pennerpatientcare.com

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# **Cascade Comfort Spa Controls**



Figure 1

**1 RINSE JETS** 

**2 DISINFECT JETS** 

3 HAND SPRAYER ON/AUTO - OFF

4 FILL/SHOWER TEMPERATURE DISPLAY

5 FILL/SHOWER TEMPERATURE CONTROL (MIXING VALVE)

6 SPA TEMPERATURE DISPLAY

7 AQUA-AIRE ON/OFF

8 TUB FILL ON/OFF

9 HAND SHOWER

**10 SPORICIDE PUMP** 

11 SPA TILT BACK

12 SPA TILT FORWARD

#### Introduction:

These instructions are for the installation of a Cascade Comfort Spa.

#### **Terminology and Symbols Meanings:**

When the terms "left" or "right" are used with reference to the tub, this means left or right as you look at the control panel from the seat end of the spa.



Meaning: Safety warning. Failure to understand and obey this warning may result in injury to you or to others.

**CAUTION** Meaning: Failure to follow these instructions may cause damage to parts or systems.

Note: Refer to the "Spa Controls" section of this manual for the location of any of the controls referenced.

#### Unpacking the Spa:

- Inspect the equipment upon receipt to ensure no damage occurred during shipping.
- Remove the spa from the shipping container.
- Locate installation parts for safe keeping.

#### **Basic Room Dimensions:**

Figure 2 shows basic dimensions for a Cascade Comfort spa.

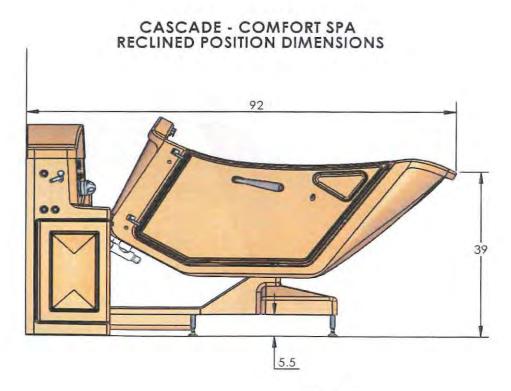
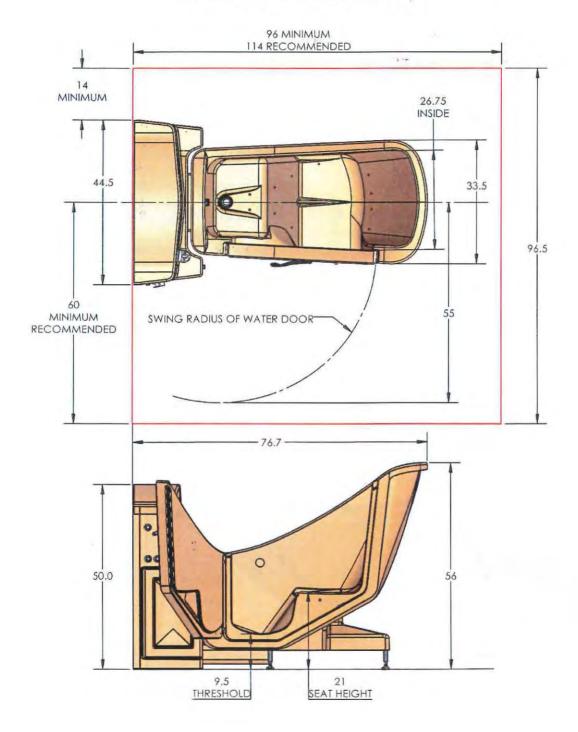




Figure 3 Room layout for Cascade Comfort Spa

#### CASCADE - COMFORT SPA ROOM AND SPA DIMENSIONS



#### Drain requirements:

The spa is equipped with a 1 1/2" actual O.D. PVC drain pipe. As shown in Figure 4, the spa's drain pipe is approximately 12" from the wall and 3 1/2" above the floor. Figure 4 shows two different options for roughing in the drain pipe – from the floor or from the wall.

#### **Plumbing Requirements:**

It is required that a licensed plumber make all plumbing connections. He can select the best method of connection and if Reduced Pressure Zone Backflow Preventers are required.

#### Hot and cold water supply requirements:

3/4" supply lines with on/off valves with 3/4" NPT female threads. We recommend 3/4" ball valve with 3/4" NPT female ports. (Valves supplied by others.) See figure 4 for recommended locations.

For optimum performance, dynamic pressures should be nominally equal between hot and cold supplies.

Maximum static supply pressure: 145 PSI.

Maximum dynamic/maintained supply pressure: 81 PSI.

Maximum supply Hot water temperature: Consult local requirements for maximum allowed supply temperatures. (Not recommended over 120°F)

#### PENNER CASCADE - COMFORT (LH) ROUGH-IN SPECIFICATIONS

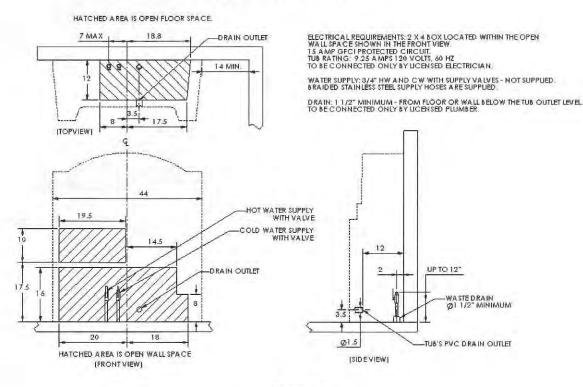


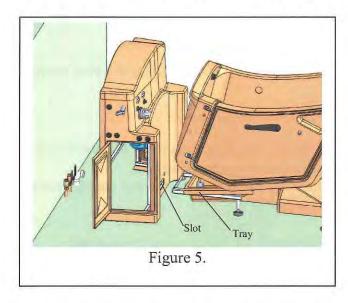
Figure 4 Suggested Rough-ins

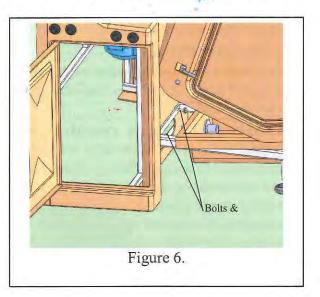
#### **Electrical requirements:**

The Cascade Comfort Spa (Aqua-Air) is rated 9.25 amps at 120 Volts AC. A 15 amp GFCI circuit is required.

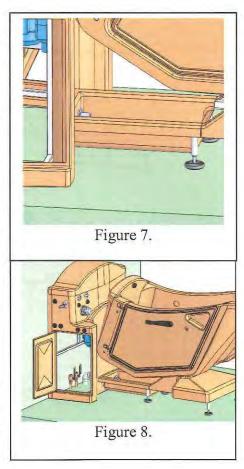
#### Hooking up the Spa

- 1. Position the cabinet around 18" to 24" from the wall in front of the final installation location, as shown in figure 1.
- 2. Position the tub around 6" to 10" from the recessed front of the cabinet, centered as shown in figure 1.





- 3. Place manifold assembly through the slot of the cabinet.
- 4. Raise the rear of the base cover tray and slide it back about 3", as shown in figure 1.
- 5. Re-position the tub against the cabinet.
- 6. Install the provided (2 ea) 3/8-16 x 1 hx hd bolts, 3/8 washers and 3/8 lock washers through the tub frame slots and into the cabinet frame. See figure 2. Note: If the tub needs to be centered better, loosen these bolts, adjust, and re-tighten.
- 7. Move the base cover tray forward and down onto the tub base frame, as shown in figure 3.
- 8. Connect the manifold assembly to the cabinet air system with the union nut.
- 9. Locate and run the actuator power cable from inside the cabinet through the opening in the base frame tray, and connect to the actuator cable. Lock the connection with the connector nut.
- 10. Run the tub fill hose (braided stainless steel hose) from the tub, through the opening in the base frame tray and into the cabinet and connect it to the like hose from the tub fill solenoid valve.
- 11. Locate the temperature readout probe in the cabinet, and run it through the base frame tray opening and route it up to the temperature probe fitting, which is just above the drain fittings at the front of the tub. Place the probe through the hex nut part of the fitting until the end of the probe extends into the tub by 3/8". Tighten the hex nut enough to secure the probe in place.
- 12. Slide tub and cabinet back to the wall as shown in figure 4.

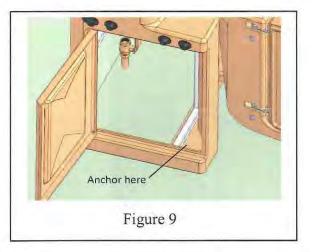


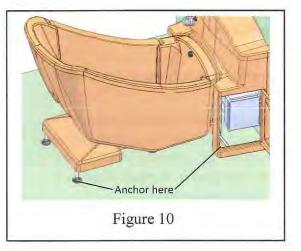
#### Anchoring the Spa:

#### Note:

These instructions for anchoring the spa are written with the assumption that the installation is being done on a concrete floor. If this is not the case, the spa can be anchored with simple lag screws (not provided). We recommend anchoring at minimum the locations shown below.

- 1. Place the spa in the final installation position.
- 2. Drill a 5/16" diameter x 1 1/2 inches deep hole in the floor at the anchor locations. A masonry drill will be required. In the cabinet drill though the fiberglass bottom flange at the locations shown.
- 3. Clean the drilled holes and clean the drilling dust with a shop vacuum.
- 4. Insert the provided anchors through the flange and into the anchor holes just drilled.
- 5. Tighten the nuts until the anchor locks the spa in position.





#### Water Supply and Drain Connections:

It is required that a licensed plumber make all plumbing connections. He can select the best method of connection and if Reduced Pressure Zone Backflow Preventers are required.

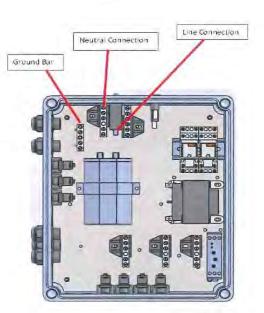
- 1. Connect the ends of the connecting hoses (hot and cold water supply) to the respective ports on the tub. Ensure that there are sealing gaskets within the swivel fittings on the hoses.
- 2. Connect the drain (waste) of the tub to the facility's drain system.
- 3. The system needs to be checked for any leaks in the entire system. However, the electrical connections must be made prior to doing this. Once the electrical connections have been made, continue with step 4.
- 4. Open the facility's supply valves to the spa and check for leaks. If no leaks are found, check the entire plumbing system for any leaks. Look for leaks while each of the following systems are running: "Tub fill", "Shower", and "Disinfecting".

# **Electrical Connections:**

# Warning:

This unit is to be connected only by a licensed electrician. A minimum of 15 amp 120 volt service is required with ground fault circuit interrupter.

- 1. Remove the cover from the electrical box of the spa.
- 2. Run flexible conduit and the proper size wires, from the facility's junction box to the connecting point of the spa's electrical enclosure. (Located inside the large access door opening on the "right" side of the tub.)
- 3. Connect the ground to the "protective earth" (ground) bar.
- 4. Connect the neutral wire to neutral bar marked "N".
- 5. Use the provided female disconnect wire terminal to connect the "line" wire to the circuit breaker tab marked "L". The provided female disconnect wire terminal is shipped already connected to the circuit breaker.
- 6. Replace the electrical enclosure cover. With the spas circuit breaker switch in the "OFF" position, turn "ON" the circuit to the spa.





7. Switch the spa's circuit breaker to the "ON" position. The temperature gauges should now display a temperature reading.

#### CAUTION

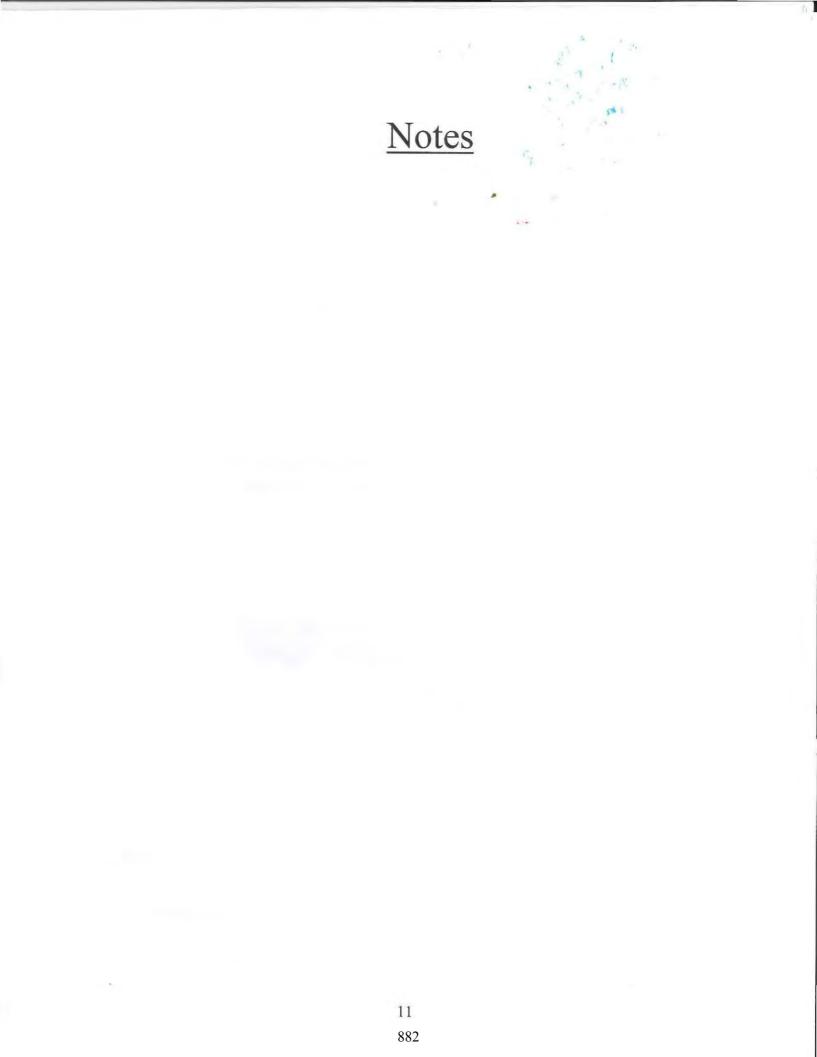
When the spa circuit breaker is turned on, if there is a sound like a running motor, **<u>immediately</u>** switch "OFF" the circuit breaker. Find the "Aqua-Aire" button on the control panel of the spa and press it once. Switch on the spa circuit breaker. The motor should not be running now.

#### **Finishing up:**

- 1. Once the spa has been connected to the drain, checked for leaks (and fixed if needed), and is connected to power.
- 2. Once all the systems are operational, use zip (wire) ties to secure the hoses, electrical cords and temperature probe wire that are routed through the base frame tray to ensure they are not pinched or rubbing excessively as the tub is titled backward and forward.

# **A**<u>Warning</u>

**Do not** attempt to operate this equipment before selected personnel are trained in its operation per the operation manual. The use of this equipment before inspection, adjustment, and training per the operation manual could result in injury to the operator and/or resident along with damage to the equipment.



For your nearest distributor, contact:

# PENNER PATIENT CARE, INC. Box 523 / 101 Grant St. Aurora, NE 68818

**1-866-PENNERS** 

1-866-736-6377

1-800-732-0717

E-mail Address: pennersales@hamilton.net Web Site: www.pennerpatientcare.com



# Cascade Comfort Bathing Systems with Aqua-Aire ™ Safe Operation & Daily Maintenance Instructions



#### **PENNER PATIENT CARE, INC Box 523 / 101 Grant St. Aurora, NE 68818** 560750 Revision A – 12/11/15

**1-866-PENNERS** 

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CASCADE COMFORT SPA	

*

# Introduction

The Cascade Comfort System is designed to significantly improve the efficiency and environmental safety of your nursing care operation and yet have the quality appearance and appeal of a home system. However, the benefits designed into the Cascade Comfort System will be realized only if the system is operated and cared for properly. The purpose of this manual is to provide you with a recommended procedure to help you obtain the maximum efficiency and safety from your Cascade Comfort System.

## Symbols and Terms

#### **WARNING**

The warning symbol identifies important safety messages. Failure to obey a safety warning may result in injury to you or to others.

#### CAUTION

The caution heading identifies important maintenance and operation information. Failure to obey a caution warning may result in damage to the equipment and may void the warranty.

#### Left or Right

When the terms "left" or "right" are used with reference to the spa, this means left or right as you look at the control panel from the seat end of the spa.

# **Technical Description**

The Cascade Comfort Spa is an "Aqua-Aire" bathing system intended for use in nursing homes, hospitals, and assisted living facilities to bath residents under the direct supervision of trained staff. The system is mainly constructed of gel-coated fiberglass laminate on a powder coated steel frame. The spa has an Aqua-Aire system for mixing the water with air. It has a disinfecting system to aid in cleaning the spa. The spa has a locking door on one side for access to the spa by the resident. A thermostatic mixing valve controls incoming water temperature. Digital temperature read-outs indicate all incoming and spa water temperatures. A hand shower sprayer is also provided.

#### Manufacturer: Penner Manufacturing Inc 101 Grant St / PO Box 503 Aurora, NE 68818 (402) 694-5003

Models: Cascade - Comfort

560010-XCascade Comfort bathing system Right hand entry560010-XLCascade Comfort bathing system Left hand entry560010-XSBCascade Comfort bathing system Right hand entry Still Bath560010-XLSBCascade Comfort bathing system Left hand entry Still Bath560010-XLSBCascade Comfort bathing system Left hand entry Still Bath560010-XLSBCascade Comfort bathing system Left hand entry Still Bath

Spa Electrical Ratings: 120 Volts AC 60 Hz 1 Phase Aqua-Aire: 9.25 amp 60 Hz 1 Phase UL Classification: Class I; Type B; Ordinary EQUIPMENT

Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

MEDICAL EQUIPMENT WITH RESPECT TO ELECTRIC SHOCK FIRE AND MECHANICAL HAZARDS ONLY IN ACCORDANCE WITH UL2601-1, AND CAN/CSA C22.2 NO. 601.1 IEC 60601



**61LN** 

Patient weight rating: 400 lbs Maximum Upright position to reclined position angle: approximately 30° Reclining actuator rating: 1 minute ON - 9 minutes OFF

All temperature read-out values are accurate to +/- 2°F (per NSF C-2). The read-out range is -40/199°F. The resolution is 1°.

An electrical circuit diagram can be found on the inside of the lid of the electrical box located inside the service access door on the right side of the spa cabinet.

Service parts and technical information are available by contacting your distributor or by calling one of the telephone numbers located on the front or back cover of this manual.

Environmental conditions for transport and storage for up to 15 weeks (as packaged from the manufacturer) are as follows:

Temperature range	
Relative Humidity	
Atmospheric Pressure	

-40° F (-40° C) to 120° F (49° C) 10% to 90% 7.5 PSI to 15.5 PSI

#### **Basic Components**

The Cascade Comfort System is composed of the following components: Cascade Spa with Cascade Door and Control Panel Cabinet.

The remainder of this section describes the components and their relationship to each other.

# Cascade Comfort Spa Controls



1 RINSE JETS 2 DISINFECT JETS 3 HAND SPRAYER ON/AUTO - OFF 4 FILL/SHOWER TEMPERATURE DISPLAY 5 FILL/SHOWER TEMPERATURE CONTROL (MIXING VALVE) 6 SPA TEMPERATURE DISPLAY 7 AQUA-AIRE ON/OFF 8 TUB FILL ON/OFF 9 HAND SHOWER 10 SPORICIDE PUMP

12 SPA TILT FORWARD

The Cascade Comfort Aqua-Aire Spa is a specialized spa with built-in air jets. It has been designed for ease of use and resident comfort. The spa has a built-in control panel, which provides controls for all the functions of the spa, as shown above.

WARNING: DO NOT PLACE LIQUIDS OR CONTAINERS OF LIQUIDS ON TOP OF THE LID OF THIS SYSTEM. FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO A RESIDENT AND OR OPERATOR.

# Cascade Door

The Cascade Comfort Door is a specially designed reinforced door with locking door handle to open and close the door.



DOOR LOCK RELEASE

Figure 2

#### Locking Cascade Door

#### Figure 2

- 1. With door handle in the upright position, close the door tight against the spa.
- 2. When the door is against the spa push the door handle to the left or down so the door handle is in the LOCK position. (Label at base of lever indicates "UNLOCK" or "LOCK" positions)
- 3. The door is now locked in place.
- 4. (Note) To extend the life of the Water Door Seal, leave the door open when not in use.

#### **Unlocking Cascade Door**

#### WARNING:

#### NEVER ATTEMPT TO UNLOCK THE DOOR WHILE THERE IS ANY WATER IN THE SPA. FAILURE TO HEAD THIS WARNING MAY RESULT IN INJURY TO A RESIDENT AND OR OPERATOR.

- 1. To unlock, first pull up on the door handle release and hold it.
- 2. Then move the door handle to the "unlock" position.
- 3. The door is now unlocked and able to be opened.

# System Preparation (Before Bath)

# **WARNING**

Only personnel who have been thoroughly trained in the operation of the Cascade Comfort System should operate this equipment. Operation of this equipment by untrained personnel could result in injury to the operator or patient. Your Penner Spa distributor is available at your request to provide complete in-service training on the equipment's proper operation.

Prior to the bath, perform the following preparation steps.

- 1. Make sure you have your bathing aids ready such as a washcloth, towels and liquids such as shampoo and body wash. You are now ready to bring the Resident or Patient to the Bathing Area with your Patient Transfer System or Wheel Chair.
- 2. At the bathing area, position your patient transfer equipment near the access of the Cascade Comfort for a normal wheel chair-to-chair transfer. Ensure the water door is open wide to allow easy access.
- 3. Lock the brakes of your patient transfer equipment before transferring the Resident or Patient.

**WARNING:** Failure to lock the caster brakes of your equipment before the resident is transferred onto the Cascade Comfort could result in injury to the operator or patient.

4. Close the water door and lock it by pressing the door handle downward.

18.1

# **WARNING**

In addition to monitoring the temperature readout, always check the water temperature by allowing it to run over your wrist. Failure to do this could result in a hot-water burn to the resident.

# Using Cascade Comfort Bathing System

Reference page 5 for locations of the controls listed in this section.

# A WARNING

Failure to manually check the water temperature before putting a resident in the spa may result in burn injuries to the resident and/or operator.

- 1. Push the Tub Fill button located on the Cascade Comfort Control Panel and adjust the water temperature by turning the Temperature Control knob to normal bathing temperature, 95 to105 degrees Fahrenheit (35 to 41 degrees Celsius).
- 2. When water reaches the overflow push Tub Fill button again to shut water off.
- 3. Press and hold the up button and recline the resident until you have reached a position suitable for resident bathing.

# **Bathing Procedure**

You are now ready to begin washing the resident. The suggested bathing time is 5 to 10 minutes. Bathing a patient more than 10 minutes is not required.

To bathe the resident, use the following procedures:

(Reference Figure 1 for the location of the controls listed in this section)

After resident is comfortable in spa you can recline the spa using the up and down buttons pictured on page 5 of this manual.

1. Start the air blower by pressing the Aqua-Aire ON/OFF button.

# WARNING

In the following bathing instructions it is recommended that the resident be rinsed with the shower sprayer. Before doing so each time, make sure the temperature is between 95 and 105 degrees Fahrenheit (35 to 41 degrees Celsius) by viewing the temperature readout. As a further precaution, always test the water on the inside of your wrist before turning the shower sprayer toward the resident. Failure to follow the precautions in this warning could result in a burn injury to the operator or the resident.

- 2. Bathe the resident's upper body as follows:
- a) Begin gently washing the resident's upper body. Pay special attention to folds or creases in the skin and under the arms.
- 3. Rinse the upper body with the shower sprayer as follows.
- a) Pull out the Hand Sprayer.
- b) Press the "HAND SPRAYER ON/AUTO OFF" button. This starts the water flow to the hand sprayer for a set period of time. Then the water flow is automatically stopped. It can be restarted at any time by pressing the "HAND SPRAYER ON/AUTO OFF" button. Note. This time period is adjustable, up to 10 minutes, by the maintenance department.
- c) Direct the sprayer into the spa, not at the resident. Press the trigger on the hand sprayer and adjust the mixing valve, if needed, to the normal bathing range of 95 to 105 degrees Fahrenheit (35 to 41 degrees Celsius). Monitor the temperature via the Fill/Shower Temperature readout. As a further precaution, always test the water on the inside of your wrist before turning the sprayer toward the resident.
- d) The Aqua-Aire action in the Cascade Comfort will help clean the resident's.

# **Transferring Out Of Cascade Comfort**

After the bath has been given, you are now ready to transfer the resident out of the spa.

1. **Drain the spa** by pulling the drain plug from the drain. To avoid water overflow start draining the spa before bringing the spa to the full upright position.

# **WARNING**

Failure to have the spa completely drained before unlocking the door could cause injury to the operator and resident.

- 2. Press and hold the down button until the spa is in the full upright position.
- 3. Unlock door by pulling up on the door handle release and pulling up on the lever at the same time.
- 4. Open door to widest position.
- 5. Dry off resident.
- 6. Carefully maneuver resident's legs around and use proper nursing techniques to transfer to a wheelchair.
- 7. If using a sit-to-stand lift or total lift, follow the manufacturer's instructions on the use of that particular lift.
- 8. You are now ready to disinfect the Cascade Comfort Spa.

# System Cleaning (After Every Bath)

Clean and disinfect the spa after every bath with Penner Cleaner/Disinfectant as follows:

**Note.** Penner Cleaner/Disinfectant is a special non-abrasive cleaning and disinfecting solution that will not harm the spa's fiberglass surface. Penner Cleaner/Disinfectant is the only cleaning solution designed and recommended for use with your Penner Spa.

#### CAUTION

Some cleaners, disinfectants, and floor strippers contain ingredients that are corrosive or abrasive. These solutions or compounds may contain chlorine, acid, basic ingredients or abrasives. <u>DO NOT</u> allow such solutions or compounds to come in contact with your Penner equipment. Failure to heed this caution could result in damage to the equipment and void the warranty.

- 1. Close and lock the door.
- 2. Press the Tub Fill Button and turn the Temperature Control Knob all the way to the left to its warmest level to heat the disinfectant solution and maximize its effectiveness.
- 3. Remove any visible tissue, residue, or fluids from the spa by pressing the Shower Button and rinsing the inside spa surfaces with the shower sprayer.
- 4. Press the Tub Fill Button again to turn off the water. Allow the spa to drain, and place the drain plug over the drain.
- 5. Press and hold the Disinfect Button located on the control panel. As the button is held down, the properly mixed cleaning solution is running through the air injection system and out all of the air jets. Release the button after you see solution coming out of all the air jets and you have 1 to 1 1/2 gallons of disinfectant solution in the foot well of the spa.

# **A**WARNING

Housekeeping personnel should wear protective glasses and gloves to prevent disinfectant from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

- 6. Using the long-handled brush, available from your Penner distributor; thoroughly scrub all interior surfaces of the spa. Let disinfectant stay on surface for 10 minutes. (Or, as recommended by the instructions on the disinfectant concentrate container.)
- 7. Remove the plug from the drain.
- 8. Rinse the spa's interior surfaces thoroughly with the shower sprayer. (Continue with step16)
- 9. Press and hold the Rinse button located on the control panel until clear water runs from all the air jets. Then release the Rinse button.
- 10. Finish rinsing the interior surfaces of the spa with the shower sprayer.
- 11. Start the air blower by pushing the Aqua-Aire Button. Allow it to run for 30 seconds. This pushes the rinse water out of the air injection system. If this was the last bath of the day, allow the blower to run for 2 minutes to dry out the system.

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- 12. Stop the Aqua-Aire blower by again pushing the Aqua-Aire button.
- 13. Visibly check that the spa was effectively cleaned during the disinfecting procedure. If not, repeat the procedure.
- 14. If there is a delay of one or more hours before the next bath, we recommend using a towel to wipe off all excess water. This will keep your Cascade spa looking great for years to come.

# **Daily Maintenance**

To properly maintain the Cascade Comfort Spa, perform the following daily maintenance procedures.

1. Check that there is an adequate supply of disinfectant concentrate in the supply bottle located behind the access door on the left side of the spa cabinet. Replace the bottle before it is empty to avoid re-priming the system. Be sure each bottle label matches the label found on the hose to which the bottle is attached.

# **WARNING**

While replacing system liquids, housekeeping personnel should wear protective glasses and gloves to prevent disinfectant concentrate from damaging their eyes or skin. If disinfectant gets on the skin or in the eyes, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs.

2. Perform the Daily Safety Checklist described in the following section before using the system.

# **A**WARNING

Failure to perform the daily safety checks and take corrective action, when required, prior to the operation of the equipment each day could result in injury to the resident or operator.

# **A**WARNING

If any part of the system is not functioning properly, cease all bathing activities until the problem is corrected by maintenance. The system must be maintained on a scheduled basis to ensure it is functioning properly. Failure to heed these precautions could result in injury to the operator or resident.

# Daily Safety Checklist

CHECK THE FOLLOWING ITEMS EACH DAY BEFORE USING YOUR CASCADE COMFORT SPA.

### Cascade Comfort Spa

Perform the following safety checks for the Cascade Spa:

- 1. High temperature limit Press the Fill Button and turn the Temperature Control Knob all the way to the left to the highest setting. Test the fill and shower water temperature to ensure that it reaches no more than 115 degrees Fahrenheit (lower if required by local regulations).
- 2. Temperature Read-Out Accuracy Temperature should be verified with a calibrated thermometer.
- 3. Seal Wear Open the door and check to see that the seal is not cracked or peeling away from the door.

# **WARNING**

If during the safety checks you find parts are missing, are excessively worn, do not function properly, or do not meet the recommended safe operating levels, do not operate the equipment until the maintenance department has taken the appropriate corrective action.

Your Penner Distributor and his personnel are trained to provide in-service instruction and maintenance on your Cascade Sit-Bath System. If you have any questions about the operation or maintenance of your Cascade Sit-Bath System, please contact your Penner Distributor. For your nearest Penner distributor, contact Penner Patient Care, Inc at 1-866-736-6377 OR 1-800-732-0717.

For your nearest distributor, contact:

# PENNER PATIENT CARE, INC. Box 523 / 101 Grant St. Aurora, NE 68818

**1-866-PENNERS** 

1-866-736-6377

1-800-732-0717

#### E-mail Address: pennersales@hamilton.net Web Site: www.pennerpatientcare.com

NOTICE OF COMPLETION AND AUTHORIZATION TO APPLY THE UL MARK



12/10/15

Penner Manufacturing Inc. Don Rudy 101 Grant Street Aurora, NE 68818

 Our Reference:
 File E213698, Vol. 1
 Project Number
 4787104857

 Project Scope:
 PIDF/7:E213698 V1/S2:ADDITION OF CASCADE COMFORT MODEL 560010-X, 560010-XL, 560010-XLSB, WHERE "X" CAN BE ANY NUMBER WHICH DENOTES THE COLOR OF THE UNIT, AND SB DENOTES A "STILL BATH" CONFIGURATION

Dear Mr. Rudy:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E213698, Vol. 1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: http://www.ul.com/EAResponsibilities

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Ronald Tiongco Staff Engineer Reviewed by:

Bruce Mahrenholz CPO Director Certification Program Office UL LLC

This is an electronically generated letter. Signatures are not required for this document to be valid.

	INS	ITERS LABORATORIES PECTION REPORT 13698X11512171535	
Date Responsible Office Inspection Center Product Type Deliverable Type	12/17/2015 Northbrook 720 Medical Device/Equipment Listed	File Number Volume CCN UL Rep Name UL Representative ID	E213698 X1 PIDF Richard L. Griffin 07006
Party Site Number Manufacturer Name and Address De Box 580777 PENNER MFG INC 102 GRANT ST PO BOX 503 AURORA, NE 68818-0503		Subscriber Number Factory Representative Factory Rep Phone Factory Rep Email	599459-001 Mr. Patrick Wall 402-694-5003 pennerqa@hamilton.net
Nature of Visit	Regular Inspection	Sample Status	Samples not required
Listing/Classification/Recognized Yes (Unlisted) Component Marks Used Since Last Visit		Listing/Classification/Recognized No (Unlisted) Component Marks Removed	
Variation Notice Issued	No		
VN Corrective Action Fo	ollow-up Performed?	No	
	PRODUCT DOCUME	ENTS / PRODUCTION READY VISIT	
No Products Examin	ned - Production Ready Visit		
Model	Product	S Class	ection/ Multiple RNN Listed
383000-1	Lift		X1 No
	SAN	IPLE DOCUMENTS	an ana manana ana ang paganan na kaona ang kaona kaona ang ka
If samples are required to	THE PLAN AND AND AND AND AND AND AND AND AND A	e below. If required samples are not sent,	explain in the Comments area.
Type/Style/ Cat/Model	Name	Sample Tag Number Shi	pped to Office
No Samples			
Additional Comments:			the second s

In addition to the requirements specified in the applicable UL Services agreement and Follow-Up Service Procedure, UL further defines responsibilities, duties and requirements for both manufacturers and UL representatives in the document titled "UL Mark Surveillance Requirements" that can be located at <u>www.ul.com/fus</u>, and in accordance with the applicable terms and conditions of the document at <u>www.ul.com/responsibilities</u>. Manufacturers without Internet access may obtain the current versions of these documents from their local UL customer service representative or UL field representative.

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# Rada 320 Installation and Maintenance

# Water Temperature Controls Groups of Fixtures Thermostatic

This Rada 320 Valve has been supplied for this application based upon information provided to Armstrong at the time the order was placed.

This Rada 320 Valve is configured for use in a "dead-leg" piping configuration as indicated in the drawing on Page 5.

This Rada 320 Valve has not been configured for use in a central pumped re-circulation system.

This Rada 320 Valve has not been designed to deliver tepid water to Emergency Fixtures.

For further information, please call our technical department Toll Free at 1-888-HOT-HOSE.

Model No.	Rada 320 🗌	Rada 320D 🗌	Rada 320DC 🗌	
Serial No.	,			(1017 1017
Ship Date				
				<b>()</b> [®] B125

#### Water Temperature Control - Groups of Fixtures

#### Thermostatic

#### Rada 320

Rada Thermostatic Mixing Valve of "sealed for life" disposable cartridge construction. Compact design with top and/or bottom blended water outlet makes Rada 320 ideal for recessed enclosure, plumbing chase and utility/mechanical room installation.

Complete operating mechanism of valve is enclosed in a durable polymer cartridge for ease of field maintenance. Powerful internal mechanism and non metallic wetted parts resist mineral deposition.

Capable of close temperature control at diverse flow rates between 1 gpm (3.8 lpm) 24 gpm (91 lpm). Able to blend within 5°F (2°C) of either inlet supply due to "low seepage" across internal proportioning mechanism.

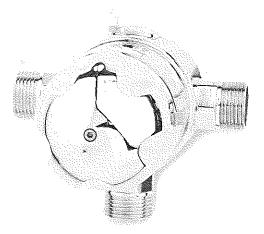
#### **Operational Specifications**

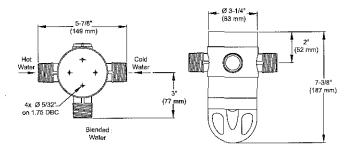
- Dual thermostatic elements provide redundancy in the event of individual thermostat failure
- Typical outlet temperature control +/-2°F
- · Adjustable maximum temperature limit stop
- · Adjustable single temperature lockout
- · Thermal shutdown mode upon inlet supply failure

#### **Technical Specifications**

- 1" NPT inlets and 1" NPT outlet
- · Chrome-plated DZR brass/polymer construction
- Operating pressures Maximum: 150 psi (10 bar) Minimum: 10 psi (.7 bar)
- · Integral inlet check valves and strainers
- ASSE 1017 and CSA B125 certified
- Shipping weight 10 lbs (4.5 kg)

For a submittal drawing, refer to CDLW #1061.





Rada Thermostatic Mixing Valves (gpm)												
Model	Pressure Drop (psi)										Min.	r r
	5	10	15	20	25	30	35	40	45	50	Flow	υν
320	: 1:1: <b>8</b> . :	ei 11 🤄	13	15	: 1 <b>7</b> v	19	20	22	23	24	· 1	3.4
425	15	22	27	31	35	38	41	44	46	49	2	6.9
40	36	51	62	72	-	-	-	-	-	-	2	16.0
50	49	70	85	98	-	-	-	-	-	-	2	22.0



### Water Temperature Control - Groups of Fixtures

#### Thermostatic

#### Rada 320D

A derivative assembly of the standard Rada 320 Thermostatic Mixing Valve of "sealed for life" disposable cartridge construction. Compact design with top and/or bottom blended water outlet makes Rada 320D ideal for recessed enclosure, plumbing chase and utility/mechanical room installation.

Complete operating mechanism of valve is enclosed in durable polymer cartridge for ease of field maintenance. Powerful internal mechanism and non metallic wetted parts resist mineral deposition.

Capable of close temperature control at diverse flow rates between 1 gpm (3.8 lpm) and 24 gpm (91 lpm). Able to blend within 5°F (2°C) of either inlet supply due to "low seepage" across internal proportioning mechanism.

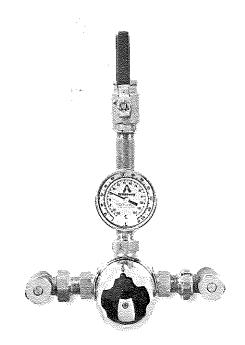
#### **Operational Specifications**

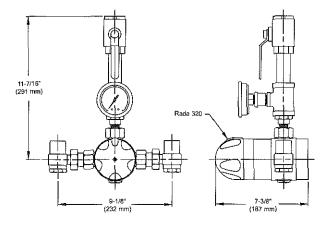
- Dual thermostatic elements provide redundancy in the event of individual thermostat failure
- Typical outlet temperature control +/-2°F
- · Adjustable maximum temperature limit stop
- · Adjustable single temperature lockout
- · Thermal shutdown mode upon inlet supply failure

#### **Technical Specifications**

- · 3/4" NPT inlets and 3/4" NPT outlet
- Chrome-plated DZR brass/polymer construction with self-finish brass and bronze components (320D) or with nickel-plated components (320DC)
- Operating pressures Maximum: 150 psi (10 bar) Minimum: 10 psi (.7 bar)
- Integral combination inlet check stop/union/strainers
- · Outlet thermometer and outlet flow control valve
- · ASSE 1017 and CSA B125 certified
- Shipping weight 10 lbs (4.5 kg)

For a submittal drawing, refer to CDLW #1102.





	static Mixing Valves (gpm) Pressure Drop (psi)									Min.		
Model	5	10	15	20	25	30	35	40	45	50	Flow	υ _v
320	8	11	13	15	17	19	20	22	23	24	1	3.4
425	15	22	27	31	35	38	41	44	46	49	2	6.9
40	36	51	62	72	-	-	-	-	-	-	2	16.0
50	49	70	85	98	_	-	-	-	-	-	2	22.0

#### **Safety Warnings**

The function of a Thermostatic Mixing Valve is to deliver water consistently at a pre-designated temperature.

Rada Thermostatic Mixing Valves are precision engineered to give continued superior and safe performance provided:

- 1. They are installed, commissioned, operated and maintained in accordance with the recommendations provided and accepted plumbing practices.
- 2. Periodic attention is given, as necessary, to maintain the product, the accessory fittings and the plumbing system in good functional order.

In keeping with every other mechanical product, Rada Mixing Valves should not be considered as functionally infallible and, as such will never totally replace the vigilance and attention of facility nursing/bathing or other institutional supervisory or industrial safety staff.

Provided that they are installed, commissioned, operated and maintained, the risk of product failure and its associated consequences, if not eliminated, are reduced to the minimum achievable.

#### **Rada 320 Operating Specifications**

Maximum Hot Water Supply Temperature	185°F (85°C) *	
Minimum Cold Water Supply Temperature	33°F (1°C)	
Optimum Inlet to Outlet Temperature Differential	21°F (12°C) **	
Optimum Thermostatic Control Range	86°F (30°C) - 122°F (50°C)	
Maximum Flow Rate at 45 psi	23 gpm (87 lpm)	
Maximum Flow Rate at 9' per second	16 gpm (61 lpm)	
Minimum Flow Rate	1 gpm (3.8 lpm)	
Maximum Inlet Supply Pressure	150 psi (10 bar)	
Minimum Inlet Supply Pressure	10 psi (0.7 bar)	

*Rada 320 can accept temporary excursions above 185°F (85°C) and maintain control without sustaining internal damage. (ASSE 1017 certification requires exposure to 200°F (93°C) for a period of 30 minutes). Prolonged operation of the Mixing Valve at such elevated temperatures is not recommended.

** Under laboratory test conditions Rada 320 has displayed a repeatable capability to blend to within 5°F (2°C) of each inlet supply temperature. 21°F (12°C) is the optimum published differential required to achieve full thermal performance.

#### Rada 320 Installation

The Rada 320 Thermostatic Mixing Valve must be installed as per the piping schematic provided on Page 5. Failure to follow this directive will compromise valve/system performance, void all warranties and may create a user comfort issue and safety concern.

Armstrong has Rada technical support personnel available from 8:00 a.m. to 5:00 p.m. EST. Call Toll Free 1-888-HOT HOSE.

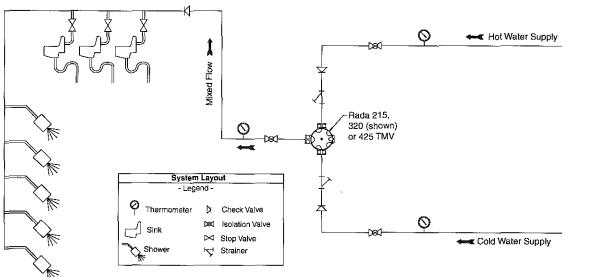
#### Notes:

- 1. Rada 320 may be installed in a vertical or horizontal position.
- 2. Rada 320 must be installed in a standard HOT-LEFT/COLD-RIGHT inlet supply configuration. There are red(hot) and blue(cold) markings on each valve. Rada 320 is provided as standard with a piped top outlet and a plugged bottom outlet. This configuration can be reversed by simply switching the outlet plug and fittings. The inlet supplies must always match the corresponding inlet ports on the valve. Rada 320D/DC is provided as standard with a top outlet which can also be reversed.
- 3. Install flat faced union connections* at each inlet and the outlet as close to the mixing valve as feasible to facilitate check valve and inlet strainer screen service and replacement.
- 4. Be sure to thoroughly flush the pipework before fitting the Rada 320.
- 5. Be sure to "make up" all "sweat" or "soldered" fittings ahead of time. Do not expose Rada 320 or any of its fittings to extreme temperatures (such as an acetylene or propane torch).
- 6. Rada 320 is serviced from the front of the valve as you face it. A minimum 18" clearance in front of the Temperature Control Handle is suggested for internal parts access.
- 7. Rada 320 is pre-set at the factory to a fixed outlet temperature of 110°F (43°C). It is highly unlikely that the installation site conditions will match the test conditions. As such:

#### RADA 320 MUST BE RE-SET ON SITE BY QUALIFIED PERSONNEL.

Rada 320 set up (commissioning the Rada 320 and the system) protocol is included on Page 6.

# Rada 320 Piping Schematic



* Factory supplied on Rada 320D/DC and when Rada 320 is installed in a cabinet assembly (320 FMC/SMC).

#### **Commissioning the Rada 320**

Commissioning must be carried out in accordance with these instructions, and must be conducted by designated, qualified and competent personnel.

Ensure that the hot and cold supplies are at their designated pressures and temperatures. Open mixed water outlet(s) and wait until the hot and cold inlet temperatures are stable. Note the mixed water temperature.

If the mixed water temperature requires adjustment, turn the temperature control handle clockwise to reduce the temperature or counterclockwise to increase it. Allow a few seconds for the temperature to stabilize.

If the blend temperature required is not obtainable (not hot enough) it is likely that the mixing valve has reached the factory calibrated maximum temperature set point. To recalibrate set point see **Maximum Temperature** below.

#### Maximum Temperature.

The maximum blend temperature obtainable through the mixing valve should be limited to prevent selection of a system temperature that is too hot.

Rada 320 is fully performance tested and the maximum temperature is pre-set to approximately 110°F (43°C) under ideal installation conditions at the factory.

Site conditions and design preference may dictate that the maximum temperature has to be re-set following installation.

#### Maximum Temperature Setting

Check that an adequate supply of hot water is available at the hot inlet of the mixing valve.

For optimum performance the minimum temperature of the hot water must be at least 21°F (12°C) above the desired blend, however during resetting this should be close to the typical storage maximum to reduce the possibility of any blend shift due to fluctuating supply temperatures.

Temperatures should always be recorded using a thermometer with proven accuracy.

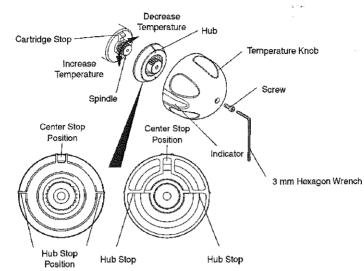
#### For Adjustable Temperature

- 1. Remove the temperature knob screw using a 3 mm hexagonal wrench (supplied). Remove the temperature knob.
- Pull off the black polymer hub assembly which may inadvertently remain attached to the inside of the temperature control handle. This is a "push fit" and can be "levered" out using a thin blade screwdriver or pliers.
- 3. Rotate the spindle until required maximum blend temperature is obtained at outlet point (clockwise = decrease temperature, counterclockwise = increase temperature). When resistance is felt do not use force to turn any further, as this can damage the internal parts.
- 4. Once the desired maximum blend temperature is achieved, re-fit the hub without disturbing the spindle: Position the hub so that the hub stop comes up against the cartridge stop (refer to Figure 7-1) preventing any further rotation in a counterclockwise direction. Check that blend temperature has not altered.
- 5. Refit the temperature knob. Make sure that the indicator points to 9 o'clock.

Figure 7-1

#### For Locked Temperature

- 1. Remove the temperature knob using a 3 mm hexagonal wrench (supplied).
- 2. Pull off the black polymer hub assembly which may inadvertently remain attached to the inside of the temperature control handle. This is a "push fit" and can be "levered" out using a thin blade screwdriver or pliers.



- Rotate the spindle until required maximum blend temperature is obtained at outlet point (clockwise = decrease temperature, counterclockwise = increase temperature).
   When resistance is felt do not use force to turn any further, as this can damage the internal parts.
- 4. Once the desired maximum blend temperature is achieved, re-fit the hub without disturbing the spindle, positioning it so that the center stop slot in the hub fits over the top of the cartridge stop (refer to Figure 7-1), preventing any further rotation in either direction. Check that the blend temperature has not altered.
- 5. Refit the temperature knob. Make sure that the indicator points to 6 o'clock.

#### Rada 320 Servicing and Maintenance (Refer to Figures 8-1 and 8-2)

Rada 320 Thermostatic Mixing Valves should be inspected annually, or more frequently where acknowledged site conditions such as high mineral content water dictate.

It is highly recommended that as a function of the annual inspection that the two "racetrack" shaped o-seals within the valve are replaced (D33387) seal pack.

Rada 320 Thermostatic Mixing Valve is of non-serviceable single "cartridge construction". The cartridge can be removed from the valve for inspection or replacement by first removing the chromed brass temperature control handle using a 3 mm hex wrench. The black polymer hub assembly may inadvertently remain attached to the inside of the temperature control handle. This is a "push fit" and can be "levered" out using a thin blade screwdriver or pliers.

The chromed polymer Temperature Indicator Ring, which fits beneath the temperature control handle can be "levered" off using a thin edged tool such as a razor blade knife.

#### Before proceeding further be sure to isolate the valve by turning off each inlet supply.

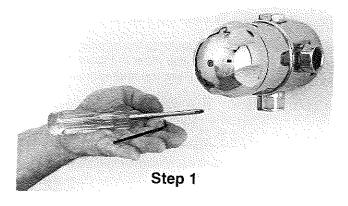
The complete cartridge assembly is accessed by first removing the 6 Phillips head-retaining screws and then smoothly drawing the cartridge out. Do not twist or apply "side load" leverage when extracting the cartridge.

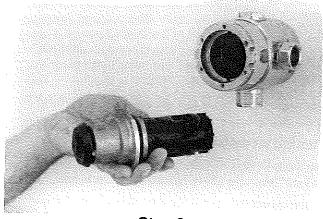
When installing a new or reinstalling an existing cartridge note the raised "H" on the hot inlet of the cartridge and align to hot supply accordingly. Conversly, align raised "C" with cold supply.

Figure 8-1 Cartridge Assembly Removal Body Cartridge Guides Temperature Spindle

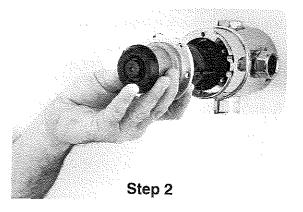
Cartridge Assembly 'H' and 'C' marked on cartridge. Make sure that the 'H' is lined up with the hot inlet and that the 'C' is lined up with the cold inlet

Figure 8-2





Step 3



The Rada 320 Mixing Unit features a single "sealed for life" disposable internal cartridge. With an allen key (3 mm) to remove the handle retaining screw and a phillips head screwdriver to remove the 6 cartridge retaining screws, the entire mixing unit can be serviced and/or replaced in approximately 10 minutes.

Note: All seals are pre-lubricated. If further lubrication is required, use only silicone based lubricants on this product. Do not use petroleum based lubricants.

### Rada 320/320R/320D Common Spare Parts

Part No.	Description		
D33382	Body, Model 320 (less connector)		
D33383	Temperature Indicating Ring		
D33384	Cartridge Assembly		
D33385	Hub Pack		
D33386	Inlet/Outlet Adapter, 3/4" Female		
D33387	Seal Pack - Includes "A" Components		
D33388	Screw Pack - Includes "B" Components		
D33389	Backplate Kit - Includes "C" Components		
D33390	Knob Pack with Screw		
D33391	Blanking Cap		
D33392	Outlet Adapter, 1" Male		
D33393	Inlet Adapter with Check Valve, 1" Male		

С D33392 3/4" NPT 1" NPT 1" NPT B, C (Male) (Male) (Female) в, с with Integral Strainer and D33386 D33392 62 Check Valve 'n D33393 D33393 D33382 D33393 B, C D33384 D33391 В D33385 B D33383 D33390 в́

## Fault Diagnosis

Symptom	Cause	Action		
	a. Inlet supplies reversed (i.e.: hot to cold or vice- versa)	Check-Rectify. Tip: check rear of valve under polymer mounting plate for raised "H" (hot)on appropriate inlet. If sight evaluation is not possible consult factory Technical Support for additional diagnositc tips.		
<ol> <li>Only hot or cold water from outlet.</li> </ol>	b. No hot water available from hot water source.	Check-rectify		
aom ouner.	c. Screen/filters occluded or inlet supply fittings plugged.	Check-Rectify		
	d. Refer to Symptom 4 below.	Refer to Symptom 4 below.		
	e. Proportioning mechanism (shuttle) trapped against hot/cold seat.	Refer to Servicing/Maintenance on Pages 7-8. and Fig. 8-1. Inspect-Rectify-Replace.		
	a. Hot or Cold inlet supply failure; Thermostat holding correct shutdown function.	Check-Rectify.		
<ol> <li>No flow from Mixing Valve outlet.</li> </ol>	b. Screens/filters blocked or inlet supply fittings plugged.	Check-Rectify.		
	a. Thermostat not operating correctly.	Replace cartridge D33384.		
	<ul> <li>b. Mixing Valve operating below minimum required flow rate.</li> </ul>	Check that at least 1 GPM is flowing through valve.		
2 Mixed water to prove ture	c. Static inlet supply pressures beyond valves capability to correct.	Check-Rectify		
<ol> <li>Mixed water temperature at TMV outlet fluctuates and does not respond to adjustment.</li> </ol>	<ul> <li>d. Inlet supply pressures fluctuating beyond valves capability to correct.</li> </ul>	Check-Rectify		
	<ul> <li>e. Hot water supply temperature fluctuating beyond valves capability to correct.</li> </ul>	Check by carefully sensing inlet hot supply pipe work- rectify.		
	<ol> <li>Partially occluded screens/filters or partially blocked inlet fittings.</li> </ol>	Check-Rectify.		
4. Hot water in cold supply and vice-versa.	a. Indicates non-functioning check valve (s).	Diagnose by turning off mixed water outlet flow and check to see if inlet hot pipe work becomes cold and vice-versa.		
	<ul> <li>Mixing Valve has not been commissioned correctly and set too high.</li> </ul>	Refer to Commissioning on Page 6 - Rectify.		
<ol> <li>Mixed water temperature too high.</li> </ol>	b. Mixing Valve has not been commissioned correctly and was set when the hot supply temperature was too low.	Refer to Commissioning on Page 6 - Rectify.		
	c. Hot water is migrating into cold supply.	See Item 4 above.		
	d. Thermostat not operating correctly.	Replace cartridge D33384.		
6 Mixed water tomporatura	a. Mixing Valve has not been commissioned correctly and is set too low.	Refer to Commissioning on Page 6 - Rectify.		
<ol> <li>Mixed water temperature too low.</li> </ol>	b. Hot water heat is not keeping up with demand.	Check-Rectify.		
	<ul> <li>Partially occluded inlet screens/filters or partially blocked inlet fittings.</li> </ul>	Check-Rectify.		
<ol><li>Mixed water flow rate is reduced.</li></ol>	b. Inlet supply pressure has fallen.	Check-Rectify.		
	<ul> <li>Accumulated pressure losses within the system are too high.</li> </ul>	Refer to a trained and appropriate authority for system sizing assistance.		
<ol> <li>Water leaking from valve body.</li> </ol>	a. Seals worn or damaged.	Obtain Seal Pack D33387.		

Notes

### Limited Warranty and Remedy

Armstrong Hot Water Group, Inc. ("Armstrong") warrants to the original user of those products supplied by it and used in the service and in the manner for which they are intended, that such products shall be free from defects in material and workmanship for a period of one (1) year from the date of installation, but not longer than 15 months from the date of shipment from the factory [unless a Special Warranty Period applies, as listed below]. This warranty does not extend to any product that has been subject to misuse, neglect, or alteration after shipment from the Armstrong factory. Except as may be expressly provided in a written agreement between Armstrong and the user, which is signed by both parties, Armstrong DOES NOT MAKE ANY OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. The sole and exclusive remedy with respect to the above limited warranty or with respect to any other claim relating to the products or to defects or any condition or use of the products supplied by Armstrong, however caused, and whether such claim is based upon warranty, contract, negligence, strict liability, or any other basis or theory, is limited to Armstrong's repair or replacement of the part or product, excluding any labor or any other cost to remove or install said part or product, or, at Armstrong's option, to repayment of the purchase price. As a condition of enforcing any rights or remedies relating to Armstrong products, notice of any warranty or other claim relating to the products must be given in writing to Armstrong: (i) within 30 days of last day of the applicable warranty period, or (ii) within 30 days of the date of the manifestation of the condition or occurrence giving rise to the claim, whichever is earlier. IN NO EVENT SHALL ARMSTRONG BE LIABLE FOR SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR PROFITS OR INTERRUPTION OF BUSINESS. The Limited Warranty and Remedy terms herein apply notwithstanding any contrary terms in any purchase order or form submitted or issued by any user, purchaser, or third party and all such contrary terms shall be deemed rejected by Armstrong.

#### Special Warranty Periods are as follows:

#### Flo-Direct Gas Fired Water Heater

The stainless steel structure and stainless steel internals (flame, tube, pall rings, supports, etc.) shall have a ten (10) year non-prorated guarantee against burn out or any structural failure caused by materials and workmanship. Provided only clean potable water is heated. The other components on the Flo-Direct, such as valves, combustion equipment, electrical controls, and the burner shall have a two (2) year non-prorated guarantee against failure caused by materials and workmanship.

#### Flo-Rite-Temp Instantaneous Water Heater

The tube bundle shall have a 10-year guarantee against failure caused by materials or workmanship provided by Armstrong but not against gasket failure or damage caused by corrosion, water hammer or lack of proper cleaning.

#### Flo-Rite-Temp Packaged Instantaneous Water Heater

Two (2) years from the date of installation, but not longer than 27 months from the date of shipment. See above for tube bundle guarantee.

#### Flo-Eco High Efficiency Gas Water Heater

The heat exchanger and supplied integral components such as the burner, the electrical controls and valving shall have a two (2) year warranty from the date of installation but no longer than 27 months from the date of shipment. The tank and replaceable tank liner shall have a 5 year warranty from the date of shipment.

The Brain - Model DRV80 and derivative assemblies shall have a 5-year all component parts warranty.

Armstrong^{*}

Armstrong International 221 Armstrong Blvd., Three Rivers, Michigan 49093 - USA Ph: (269) 279-3602 Toll Free: (888) HOT-HOSE (468-4673) Fax: (269) 279-3130

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JENNIFER M. GRANHOLM GOVERNOR STATE OF MICHIGAN DEPARTMENT OF LABOR & ECONOMIC GROWTH LANSING

STANLEY "SKIP" PRUSS DIRECTOR

November 6, 2008

Mr. Dale M. Wall Penner Manufacturing Inc. 102 Grant Street Aurora, NE 68818

Dear Mr. Wall;

At the Construction Code Commission meeting on November 5, 2008, the Plumbing Division presented your request for approval of the Penner Patient Care, Cascade Bath Systems, Premier Model 360020-1P.

The Construction Code Commission, upon recommendation of the State Plumbing Board, approved the use of the Penner Patient Care, Cascade Bath Systems, Premier Model 360020-1P with the following conditions:

- 1. All requirements of the Michigan Plumbing and Electrical codes shall be applicable.
- 2. Installations shall be in accordance with the manufacturer's specifications.
- 3. Requests from hospital or care institutions must be approved by the Health Department having jurisdiction.
- 4. Both hot and cold water supplies shall be protected by and approved for reduced pressure principle backflow preventer.
- 5. The unit shall discharge into an approved waste receptor.

Should any change be made in the design or designation of these products, the modified products must be submitted to this office and a new acceptance obtained.

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES P.O. 80X 30254 • LANSING, MICHIGAN 48909 Telephone (517) 241-9330 • Fax (517) 373-8547 www.michigan.gov/dleg

DLEG is an equal opportunity employer/program. Auxiliary aids, services and other reasonable accommodations are available upon request to individuals with disabilities. Mr. Dale M. Wall Page 2 November 6, 2008

In accordance with Section 21 of 1972 PA 230, neither this letter nor the Certificate of Acceptability may be used for advertising or promotional purposes.

A Certificate of Acceptability is enclosed.

Sincerely, Irvin J. Poke, AIA Director RGK/rgk

Enclosure

cc: Duane Branch, Chairperson, State Plumbing Board

#### CERTIFICATE OF ACCEPTABILTY

#### NO. 1593 PA

Issued by the Michigan State Construction Code Commission in accordance with authority granted under Section 21 of 1972 PA 230, being Section 125.1521 of the Michigan Compiled Laws on the recommendation of the State Plumbing Board.

#### **MANUFACTURER:**

Penner Manufacturing Inc. 102 Grant Street Aurora, NE 68818

**PRODUCT:** Penner Patient Care, Cascade Bath Systems, Premier, Model 360020-1P

#### CONDITIONS OF USE AND INSTALLATION:

- 1. All requirements of the Michigan Plumbing and Electrical codes shall be applicable.
- 2. Installations shall be in accordance with the manufacturer's specifications.
- 3. Requests from hospital or care institutions must be approved by the Health Department having jurisdiction.
- 4. Both hot and cold water supplies shall be protected by and approved for reduced pressure principle backflow preventer.
- 5. The unit shall discharge into an approved waste receptor.

#### THIS CERTIFICATE SHALL NOT BE USED FOR ADVERTISING PURPOSES.

By Direction of the Construction Code Commission

Irvin J. Poke, AIA, Director, Bureau of Construction Codes

Robert G. Konyndyk, Chier, Plumbing Division

Effective Date: November 5, 2008

#### DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS BUREAU OF CONSTRUCTION CODES P.O. BOX 30254 LANSING, MI 48909

#### CERTIFICATE OF ACCEPTABILITY PRODUCT APPROVAL

#### 1647-PA

Issued by the Michigan State Construction Code Commission in accordance with authority granted under Section 21, 1972 P.A. 230, MCL 125.1521 on the recommendation of the Bureau of Construction Codes, Plumbing Division. This product was reviewed to the 2009 Michigan Plumbing Code.

#### MANUFACTURER:

Penner Manufacturing, Inc.

#### **PRODUCT:**

Cascade Contour Bathing System, model 360030-1C

#### MANUFACTURER DESIGNATION:

Penner Manufacturing, Inc. 102 Grant Street Aurora, NE 68818

#### CONDITIONS OF USE AND INSTALLATION:

- 1. All requirements of the Michigan Plumbing Code shall be applicable.
- 2. Installations shall be in accordance with the manufacturer's specifications.
- 3. Requests from hospitals or care institutions must be approved by the Health Department having jurisdiction.
- 4. Both hot and cold water supplies shall be protected by an approved reduced pressure principle backflow preventer.
- 5. The unit shall discharge into an approved waste receptor.
- 6. This approval shall become void if and when the product no longer meets the requirements of the Michigan Plumbing Code or a change in design/designation occurs.

#### THIS CERTIFICATE SHALL NOT BE USED FOR ADVERTISING PURPOSES.



Effective Date: January 8, 2014 BCC-978 (Rev. 11/12)

By Direction of the Construction Code Commission

Irvin J. Poke, AIA, Director

bur F. Madziar, Chief, Plumbing Division Josebh

THIS CERTIFICATE SIGNIFIES

#### PENNER MANUFACTURING INC. 101 GRANT STREET AURORA, NE 68818 (CR# 6091)

Home Innovation

IS IN CONFORMANCE WITH THE PROGRAM REQUIREMENTS AND IS LICENSED TO AFFIX THE HOME INNOVATION LAB CERTIFIED LABEL TO THE FOLLOWING PLUMBING FIXTURES:

WHIRLPOOL BATHTUBS, BATHTUBS WITH PRESSURED SEALED DOORS

MANUFACTURED IN ANY OF THE FOLLOWING APPROVED MATERIALS:

GELCOATED FIBERGLASS REINFORCED PLASTIC

THE LISTED PRODUCTS HAVE BEEN TESTED IN ACCORDANCE WITH THE APPROPRIATE ASME A112.19.7/CSA B45.10; ASME A112.19.15; CSA B45.5/IAPMO Z124 STANDARDS

Thomas Kenney, PE VP Engineering & Research

Shanzhong (Sam) Yuan, Ph.D., P.E. Director of Laboratory & Certification Services

January 1, 2017

Issuance Date

December 31, 2017 Expiration Date

This certificate becomes invalid upon suspension, cancellation, revocation, or expiration of certification

Home Innovation Research Labs | 400 Prince George's Boulevard | Upper Marlboro, MD 20774 | HomeInnovation.com

