Appendix B: Facility Conditions Index Report

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Combined Condition Assessment

STEAM Academy at MLK

750 East Britain Avenue, Benton Harbor, Michigan

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February 2017

DTMB
Technology, Management & Budget
State Facilities Administration

SRO
STATE SCHOOL REFORM/REDESIGN OFFICE
Michigan Department of Technology, Management and Budget

LARA
LICENSING AND REGULATORY AFFAIRS
CUSTOMER DRIVEN. BUSINESS MINDED
Bureau of Construction Codes

Executive Summary

This Combined Condition Assessment is the product of a collaborative site assessment and survey by the Department of Technology Management and Budget, State Facilities Administration (SFA) and the Department of Licensing and Regulatory Affairs (LARA) Bureau of Construction Codes at the request of the State School Reform/Redesign Office (SRO).

It has been designed to provide a general condition overview of the facility and major site assets. A team visits the site and collects data to determine two factors in eight facilities categories:

Factors:

- ***Remaining Service Life*** of Facility Elements or Systems which is then utilized to calculate an ***Age-Based Condition Index***.
- ***Operating Condition*** based upon visual observations the day of the visit along with supporting information/records provided by staff or contact personnel.
- Results of the two factors above are averaged/combined to produce a single ***Combined Condition Score (CCS)*** for the site.

Facilities Categories:

- Structure – Foundation, Parking Lots, Sidewalks, Access
- Exterior – Walls, Windows, Stairways, Doors
- Roofing – Roofing Type and Condition
- HVAC – Air Handlers, Boilers, Chillers, Gas Piping, Cooling Towers, Pumps, Exhaust, etc.
- Electrical – Service & Distribution, Lighting, Emergency Generator, Fire Alarm, Kitchen
- Plumbing – Restrooms, Backflow, Domestic Water/Heating, Distribution, Fire System
- Conveying – Elevators, Lifts
- Interior Construction – Doors, Stairways, Walls, Ceilings, Flooring

Results:

The Steam Academy assessment was performed on ***February 7, 2017*** by the SFA team and resulted in a ***CCS*** of: **55.5**

Combined Condition Score (CCS)

There are many ways to measure physical condition of a facility. Performing full, detailed assessments necessary to calculate a Facility Condition Index (FCI), Extended Facility Condition Index (EFCI) or Facilities Needs Index (FNI) are very demanding in terms of input resources up front. This project required an efficient, lean approach whereby an assessment team could move through occupied space quickly with minimal disruption while collecting data. The output needed to be measurable and consistent. While additional information such as annual

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reinvestment rates and replacement costs may also be desirable, these were outside the scope of this first visit.

The DTMB State Facilities Administration (SFA), Building Operations Division assesses buildings within their own portfolio for capital planning purposes. These assessments may be age-based, where the age of building elements or assets are compared to their respective design-life; or observed-condition-based where defects and site conditions are observed and rated.

The Combined Condition Score is a combination of both the age-based condition index and observed condition, equally weighted and averaged together resulting in a number between 0 and 100. This number will be indicative of overall facility condition and can be used to order facilities by respective condition relative to others.

- A score of 100 indicates a brand new, unoccupied facility with no construction defects and no code violations.
- A score of 0 indicates a very old facility with no usable architectural elements or attached assets.
- Realistically speaking, all occupied buildings will score more than zero and less than 100.
- The lower the score, the less cost effective to operate the building. A good rule-of-thumb is when the score falls below 34, equivalent annual cost to replace a facility will be less than continuing to operate and maintain the existing facility.

Building Exterior

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Building Interior

Site Narrative

The assessment team completed the site visit/inspection on February 7, 2017. The Team reviewed the exterior of the building including roofing, exterior walls and outdoor mechanicals. The team then moved inside and reviewed interior finishes and mechanicals including but not limited to, walls and ceilings, foundations, boiler heating, plumbing, hvac systems and electrical systems in the building. The following was validated/noted during the inspection with site personnel:

- The building was originally constructed in 1960.
- The exterior is brick with rubber membrane roof which has 10-year estimated service life remaining according to a 2016 assessment.
- Electrical power distribution met or exceeded service life according to 2016 study and should be replaced.
- Interior lighting appears to have met or exceeded design life.

The full Combined Condition Assessment is as follows:

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BUILDING NAME: Steam Academy at MLK

BUILT: 6/1/1960

ASSESSMENT DATE: 2/7/2016

CATEGORY	SUB-CATEGORY	TYPE	INSTALLED DATE	(YEARS) SERVICE LIFE	AGE	REMAINING SERVICE LIFE	AGE-BASED CONDITION INDEX	INSPECTED OPERATING CONDITION	COMMENTS
STRUCTURE						11.0	48.4	72.2	
	FOUNDATION		6/1/1960	75.0	56.7	18.3	42.8	66.7	
	PARKING LOTS		6/1/2004	15.0	12.7	2.3	28.2	75.0	
	PEDESTRIAN PAVING		6/1/2004	25.0	12.7	12.3	74.2	75.0	
EXTERIOR						-11.7	11.5	75.0	
	WALLS		6/1/1960	70.0	56.7	13.3	34.4	75.0	
	WINDOWS		6/1/1960	30.0	56.7	-26.7	0.0	75.0	
	STAIRWAYS								
	DOORS		6/1/1960	35.0	56.7	-21.7	0.0	75.0	
ROOF						7.3	59.6	75.0	
	ROOF COVERING		6/1/2004	20.0	12.7	7.3	59.6	75.0	
HVAC						-10.5	28.0	78.1	
	AIR HANDLING UNITS								
	BOILERS		6/1/2000	30.0	16.7	13.3	69.0	75.0	
	CHILLERS								
	GAS PIPING SYSTEMS		6/1/1960	75.0	56.7	18.3	42.8	75.0	
	COOLING TOWERS								
	PUMPS								
	EXHAUST SYSTEMS		6/1/1960	20.0	56.7	-36.7	0.0	75.0	
	WALK IN FREEZERS		6/1/1960	20.0	56.7	-36.7	0.0	87.5	
	VENT AND POOL HEATERS								
	COOLING PIPING								
ELECTRICAL						-8.2	14.9	70.2	
	ELECTRICAL SERVICE/DISTRIBUTION		6/1/1960	50.0	56.7	-6.7	0.0	75.0	
	LIGHTING		6/1/1960	20.0	56.7	-36.7	0.0	71.4	
	EMERGENCY GENERATOR		6/1/2007	30.0	9.7	20.3	89.5	75.0	
	KITCHEN EQUIPMENT		6/1/1960	20.0	56.7	-36.7	0.0	75.0	
	INTERCOM / PA EQUIPMENT		6/1/1960	20.0	56.7	-36.7	0.0	50.0	
	FIRE ALARM SYSTEM		6/1/1960	20.0	56.7	-36.7	0.0	75.0	
PLUMBING						-26.7	21.4	70.2	
	RESTROOMS		6/1/1960	30.0	56.7	-26.7	0.0	71.4	
	BACKFLOW PREVENTERS		6/1/1960	10.0	56.7	-46.7	0.0	50.0	
	GENERAL		6/1/1960	35.0	56.7	-21.7	0.0	75.0	
	FOOD SERVICE		6/1/1960	35.0	56.7	-21.7	0.0	75.0	
	DOMESTIC WATER HEATING		6/1/2011	15.0	5.7	9.3	85.5	75.0	
	WATER DISTRIBUTION		6/1/1960	75.0	56.7	18.3	42.8	75.0	
	FIRE SUPPRESSION								
CONVEYING									
	ELEVATORS								2 story building with no elevator
INTERIOR CONSTRUCTION						34.3	86.8	75.0	
	DOORS		6/1/2004	40.0	12.7	27.3	89.9	75.0	
	STAIRWAYS		6/1/2004	50.0	12.7	37.3	93.5	75.0	
	WALLS		6/1/2004	75.0	12.7	62.3	97.1	75.0	
	CEILINGS		6/1/2004	20.0	12.7	7.3	59.6	75.0	
	FLOORS		6/1/2004	50.0	12.7	37.3	93.5	75.0	

BUILDING EXTERIOR FT^2
51,223

AVERAGE					COMBINED CONDITION SCORE
SERVICE LIFE	AGE	REMAINING SERVICE LIFE	CONDITION INDEX	OBSERVED CONDITION	
36.1	39.2	-0.6	37.1	73.8	55.5

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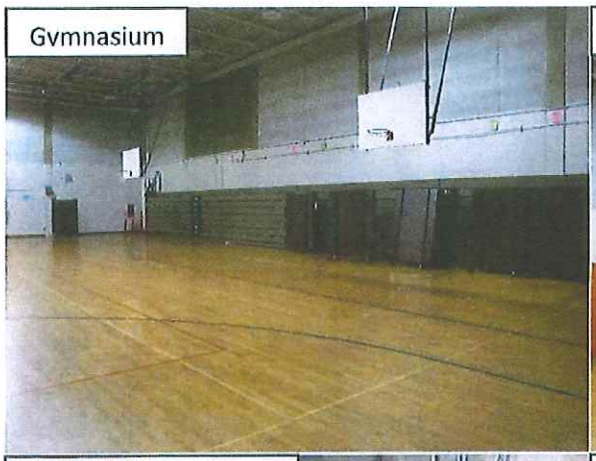
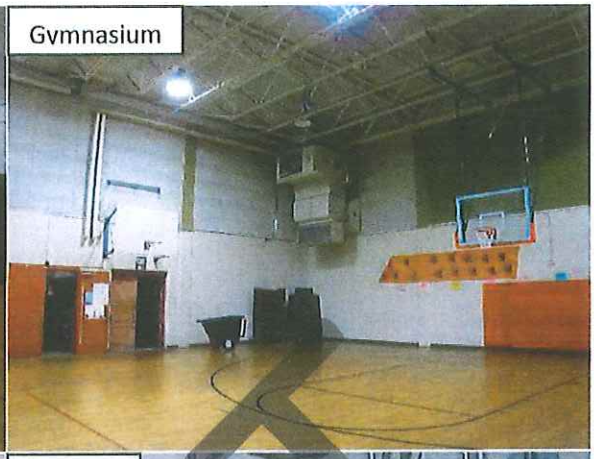
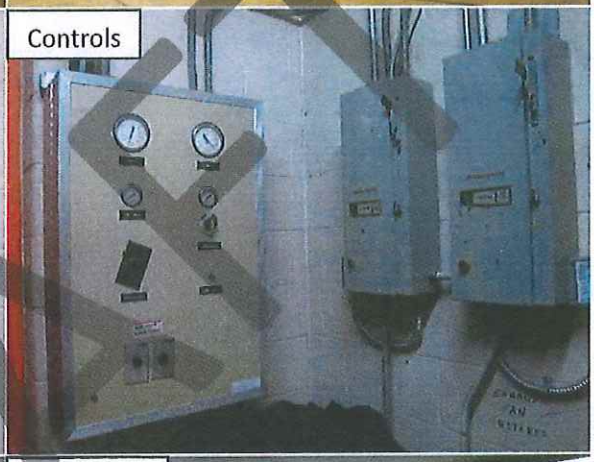

Gymnasium


Gymnasium

Motor Control Center


Controls

Storage

Classroom

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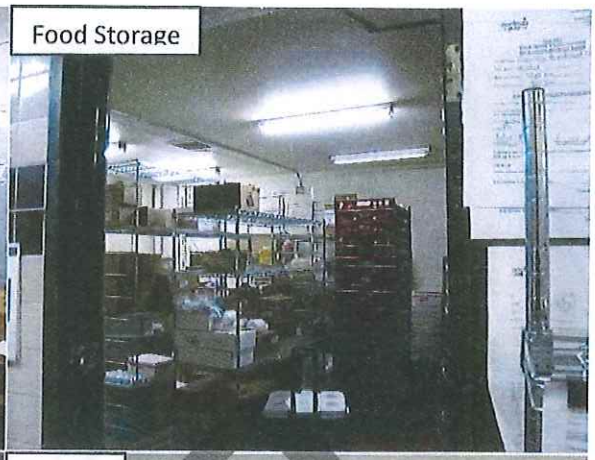
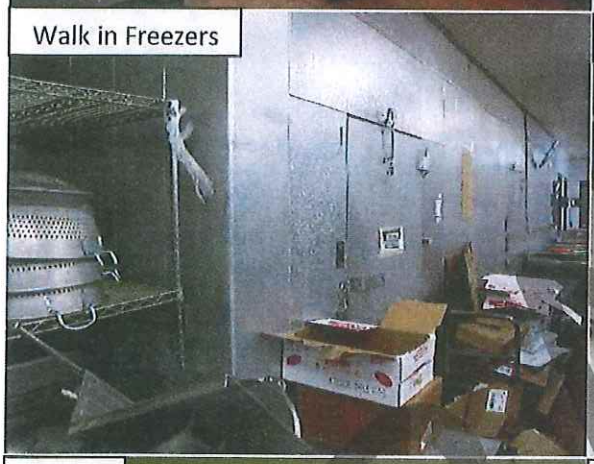
Kitchen

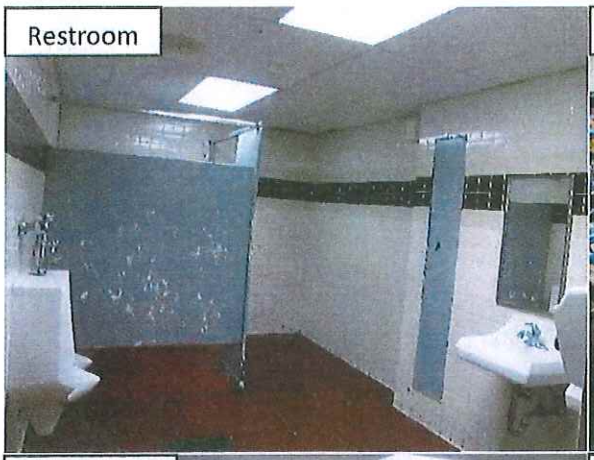

Food Storage


Walk in Freezers

Hood

Hood

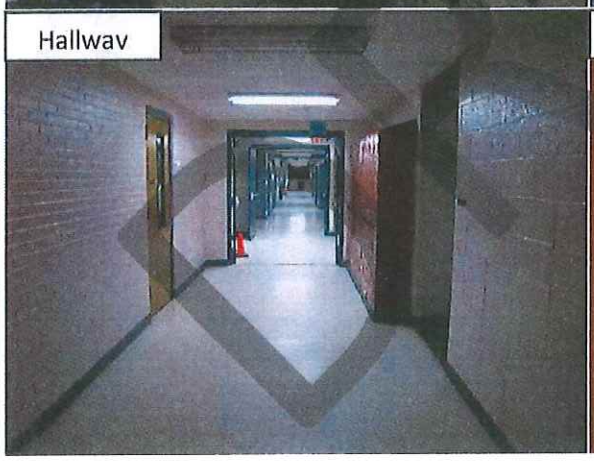
Kitchen


Restroom

Classroom

Classroom

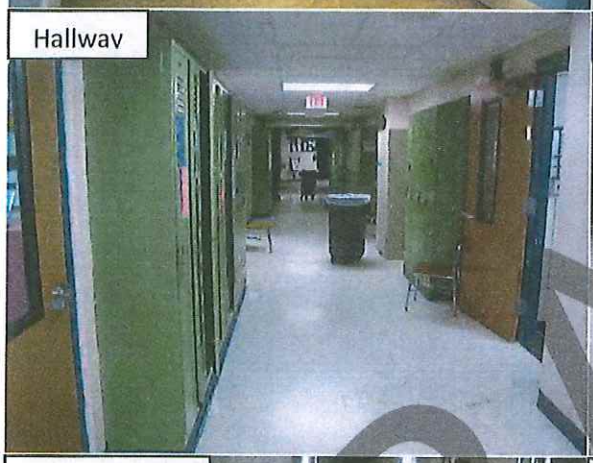
Water Damage


Hallway

Extinguisher

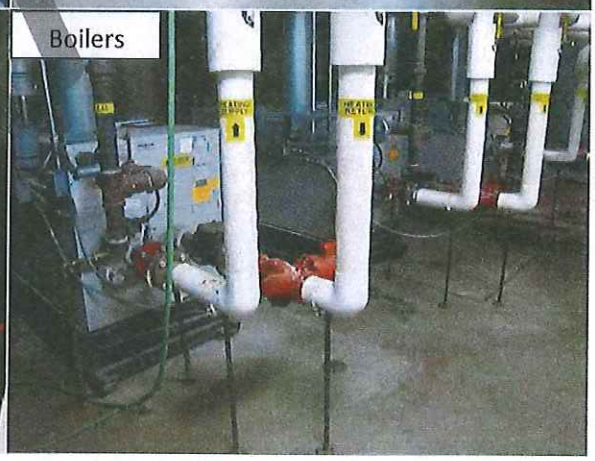
Restroom

Stairway


Hallway

Classroom

Water Heaters


Boilers

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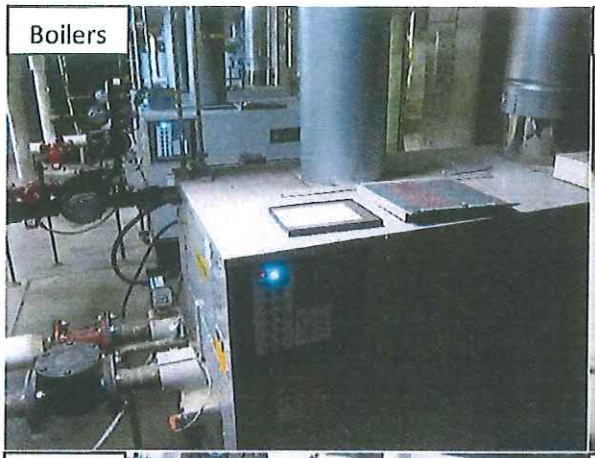
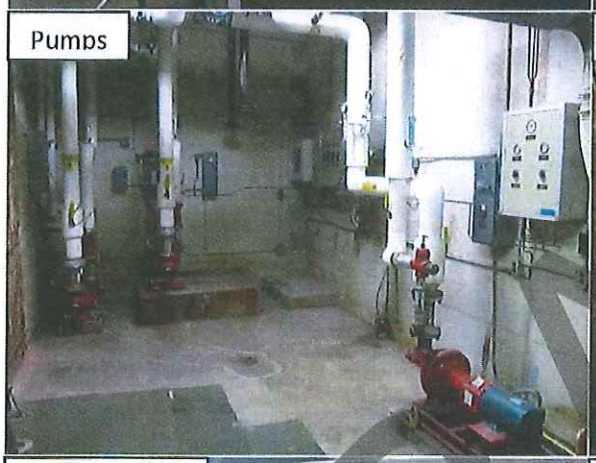
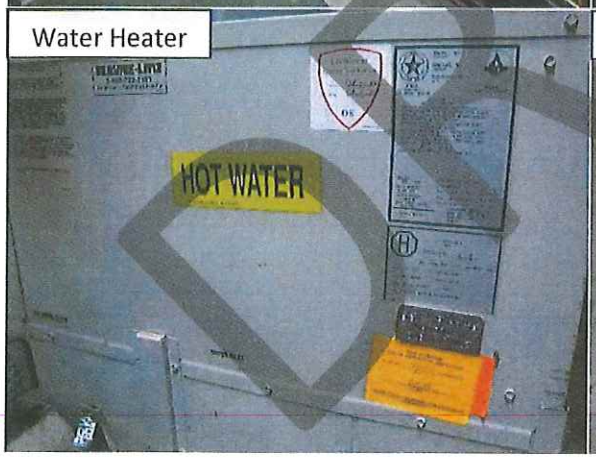

Boilers

Generator Control


Pumps

Compressor


Water Heater
HOT WATER

Boiler Certificate
CERTIFICATE OF BOILER INSPECTION
PLACE IN BOILER ROOM

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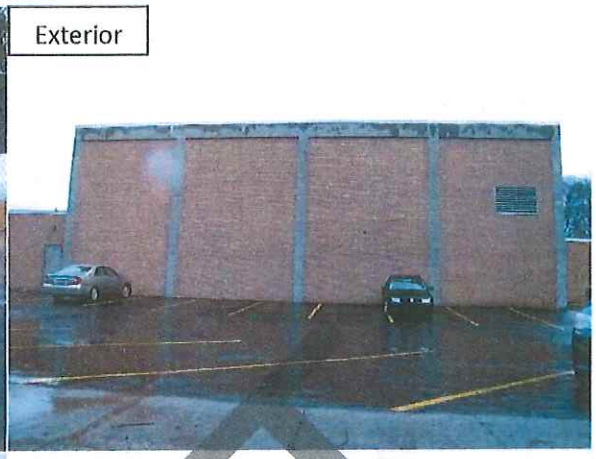

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BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use end of expected lifecycle	Violations-45 days	2/7/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYORS

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Civil							
	Perimeter Fencing		3				
	Paving Parking Lot (Asphalt / Concrete)		3				
	Curbing		3				
	On-Site Signage		3				
	Pedestrian Access (Michigan Barrier Free & Safety)		3				
Site Facilities							
	Loading Dock			2			
Michigan barrier free Compliance							
	Handicap Parking		3				
	Accessible Entry		3				
	Exterior Ramps and walks		3				
	Barrier free route (ROW - Sidewalk to Bldg. Entry)		3				
	Building Entry		3				
Foundation/Footings							
	Structure		3				
Columns/Beams/Walls							
	Structure		3				
	Applied Fireproofing Systems					N/A	
Roofing							
	Roof Openings (Skylights)					N/A	
	Roof Openings (Access)					N/A	
	Roof Equipment Curbing		3				
	Leakage		3				
	Ponding Water		3				
	Roof Drains		3				
	Gutters / Downspouts		3				
Exterior Walls							
	Exterior Finish		3				

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BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/7/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYORS

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Expansion / Control Joints		3				
	Thermal Condition		3				
	Soffits					N/A	
	General Appearance		3				
Doors / Windows / Louvers							
	Windows		3				
	Louvers and Vents		3				
	Main Entry Doors		3				
	Main Entry Hardware		3				
	Other Exterior Doors		3				
	Other Exterior Door Hardware		3				
General							
	Wall Finishes (Classrooms)		3				
	Wall Finishes (Corridors)		3				
	Wall Finishes (Restrooms)		3				
	Wall Finishes (Others)		3				
	Ceilings		3				
	Cabinetry					N/A	
	Moveable / Operable Walls					N/A	
Interior Doors							
	Door & Frame Condition		3				
	Hardware Condition		3				
	Hallway Fire Door					N/A	
	Cafe / Concession Security Gates / Roll-up Doors					N/A	
Flooring							
	ACT					N/A	
	Drywall					N/A	
	Other					N/A	
	Carpet		3				

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BUILDING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
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0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYORS

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	VCT		3				
	Tile		3				
	Terrazzo					N/A	
	Wood		3				
	Sealed Concrete					N/A	
Stairs							
	Landing finish		3				
	Stair treads		3				
	Stair nosings		3				
	Handrails		3				
Toilet Rooms							
	Flooring		3				
	Walls		3				
	Signage			2			

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

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MECHANICAL

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
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0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Gas System							
	Piping		3				
	Other (Vented Interior Regulators)		3				
	Gas PRV (Proximity to OA intakes)		3				
	Science Classroom Emergency Off Switch					N/A	
Cooling Plant							
	Distribution Piping (2 pipe or 4-pipe)					N/A	
	Chillers (Age, Refrigerant, Heat Rejection Method)					N/A	
	Cooling Towers (Age, Materials, VFD, Sufficiency)					N/A	
	CHW Pump Volute Insulation type (foamglass, Armaflex, phenolic foam, fiberglass, mineral wool)					N/A	
	Plant Piping & Valves (Corroded/Isolation valves)					N/A	
	Chilled Water Pipe Insulation & Jacket (Foamglass Armaflex					N/A	
	Campus Piping & Valves (Corroded/Isolation valves)					N/A	
	Refrigeration Room Monitoring and Ventilation					N/A	
Heating Plant							
	Boilers (Age, Fuel Type, Input/Output)		3				
	Pumps (VFD / Sound / Suction Pressure)		3				
	Plant Piping & Valves (Corroded/Isolation valves)		3				
	Campus Piping & Valves (Corroded/Isolation valves)		3				
	Boiler Room E-Stop					N/A	
Dedicated Airside Heating Systems							
	Heating-Only Air Handling Units (Age)					N/A	
	Duct Furnaces (Fuel, Type, Age, Mission)					N/A	
	Unit Heaters (Fuel, Type, Age, Mission)					N/A	
	Heating-Only Unit Ventilators (year, condition)					N/A	
Air Distribution							
	Outside Air Units (Age, HR Type, ERV, Unitary, VAV)					N/A	
	Rooftop ACUs (Age, Gas Heat or Heat Pump)					N/A	

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MECHANICAL

4	NEW	New or like-new condition: no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
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			4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Central Station AHUs (Age, Type/Geometry, VAV, typ. SAT dual path unit)						N/A	
	Terminal Units (VAV, VAV/reheat, Heat source, Close- off VAV, SFPU, PFPU)						N/A	
Exhaust Systems								
	Restrooms			3				
	Locker Rooms						N/A	
	Kitchen	Hood Systems (Grease or Heat only, Ansul system, Heat sensor start)					N/A	
		Exhaust Fan Outlet height (Is it <40")					N/A	
	Science	Room Emergency Exhaust (Operation)					N/A	
		Fume Exhaust (Latest year certified, sash height, manifolded, VAV, fan location)					N/A	
		Stack outlet height (is it <10')					N/A	
	Art Kiln	Exhaust Fan / Exhaust Hood					N/A	
Refrigeration Systems								
	Freezer Systems (Age, Location, Refrigerant)		4					
	Cooler Systems (Age, Location, Refrigerant)			3				
Indoor Swimming Pool Systems								
	Vent and Pool Heater						N/A	
Fire Alarm System and Fire Suppression								
	Fire suppression						N/A	

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PLUMBING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
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0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Site Utilities							
	Backflow Preventer			2			
	Water Service Piping		3				
Roofing							
	Roof Drains (piping)		3				
Toilet Rooms							
	Toilet Partitions		3				
General							
	Custodial Closets (Mop Sinks)		3				
	Laboratory Sinks					N/A	
	Eyewash / Emerg. Shower (Tepid Water)		3				
	Showers (Self metering, Shutoff)					N/A	
	Kitchen (POU Grease, Interceptor)		3				
	Grease (Indoor/outdoor, Interceptor)		3				
	Water Fountains (Self contained water cooler, bubbler)		3				
	Sewer Ejector systems					N/A	
	Dilution Tanks (Science Classrooms/Neutralization tanks)					N/A	
	DWV					N/A	
Restrooms							
	Water Closets		3				
	Urinals		3				
	Lavatories / Sinks		3				
Water Distribution							
	Water Distribution Piping		3				
	Water Heaters (Separate from Bldg. Heating / Kitchen)		3				
	Water Meter		3				
Food Service							
	SS Sinks		3				
	Mop Sinks		3				

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PLUMBING

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
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0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Water and Drains		3				
Domestic Water Heating							
	Dedicated Heater for Kitchen		3				
	Recirculation Pump (Operating- Yes/No)					N/A	

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

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BOILER

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/7/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

Heating Plant

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Boilers (Age, Fuel Type, Input/Output)		3				
	Pumps (VFD / Sound / Suction Pressure)		3				
	Plant Piping & Valves (Corroded/Isolation Valves)		3				

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ELEVATOR

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/7/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

Elevator State Serial Number:

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
	Machine Room Equipment					N/A	
	Door Operators and Operating Equipment					N/A	
	Interior Cab / Signage / Emerg. Phone					N/A	
	Hoistway Pit					N/A	
	Landing Fixtures					N/A	
	Operating Condition					N/A	
	Ropes / Hoisting Equipment					N/A	
	Hoistway Equipment					N/A	
	Fire and Emergency Service					N/A	

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

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ELECTRICAL

4	NEW	New or like-new condition; no issues to report; no expected failures	No issues / violations or adverse conditions / less than 3 years old	Steam Academy at MLK	SCHOOL NAME
3	GOOD	Good condition; no reported issues or concerns	No issues / violations or adverse conditions other than new	750 E. Britain Ave., Benton Harbor, MI	ADDRESS
2	FAIR	Average wear for building age; not new but no issues	Violations-90 days		BUILDING
1	POOR	Worn from use -end of expected lifecycle	Violations-45 days	2/7/2017	SURVEY DATE
0	CRITICAL	Extremely worn or damaged	Violations / Imminent danger or inoperable	Mike Holsinger & Todd Perry	SURVEYOR

		4	3	2	1	0	COMMENTS / RECOMMENDED ACTION
Electrical Supply							
	Service Switchgear/Electrical Service (Observed Condition)		3				
	District-owned Site Transformers (Observed Condition)		3				
	Motor Control Centers		3				
Electrical Distribution							
	Equipment		3				
	Panelboards (Condition & Capacity)		3				
	Feeders (Observed Condition)		3				
	Devices (Switches & Receptacles)		3				
	TSS - Surge Suppression					N/A	
	Transformers		3				
Lighting							
	Classroom (Instructional)		3				
	Corridor / Common Areas		3				
	Restrooms		3				
	High Bay Areas		3				
	Emergency (Condition & Code Compliance)		3				
	Exterior Perimeter (Building Mounted)			2			
	Lighting Controls (Building Level)		3				
Other							
	Kitchen Equipment Supply		3				
	Emergency Generator (Observed Condition)		3				
	Intercom / PA Systems (Observed Condition)			2			
	Fire Alarm System (Observed Condition)		3				

***Any violations reported in this school assessment were not given to the facility as violations to be corrected in order to maintain the certificate of occupancy for the facility. Any violations reported in this school assessment were not cited as part of a school safety inspection, they are strictly for the use of the assessment report.

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Appendix C: SCHOOL QUALITY MAPS

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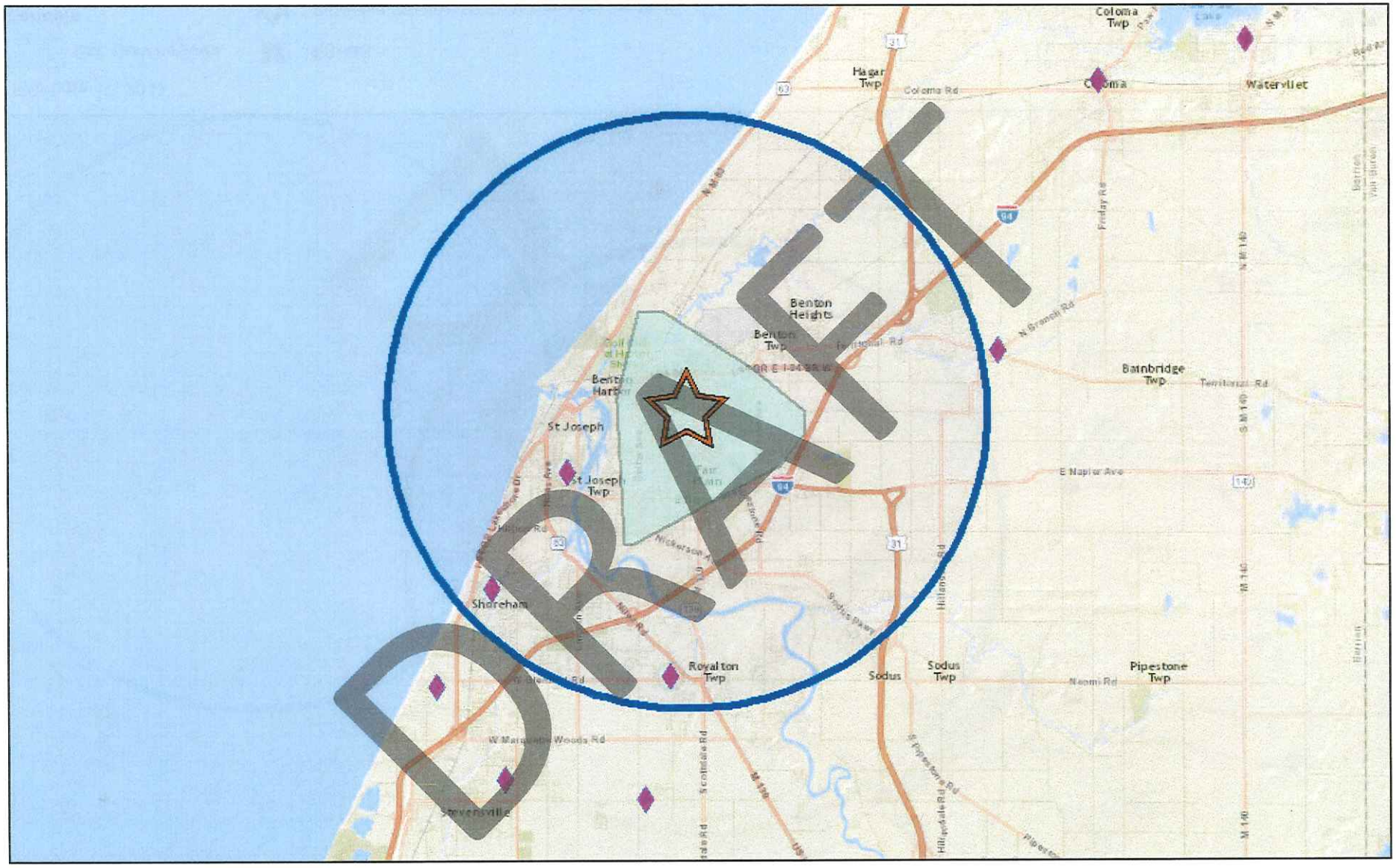
STEAM Academy @ MLK: Quality Schools within 5 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

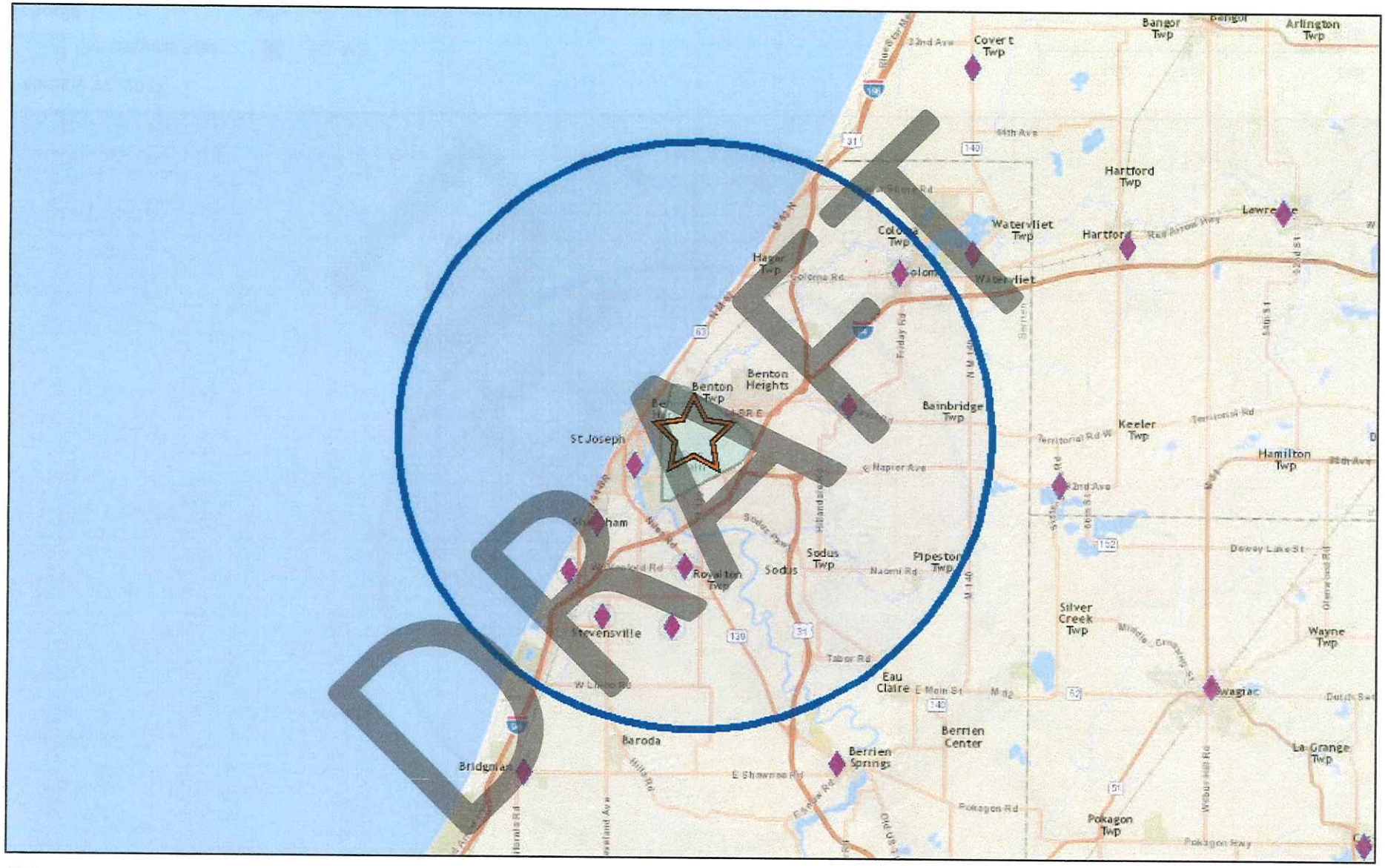
0 1.25 2.5 5 mi

0 2 4 8 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).

Area Schools radius: 5 Miles | Map: State of Michigan - CSS (2017©)

STEAM Academy @ MLK: Quality Schools within 10 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

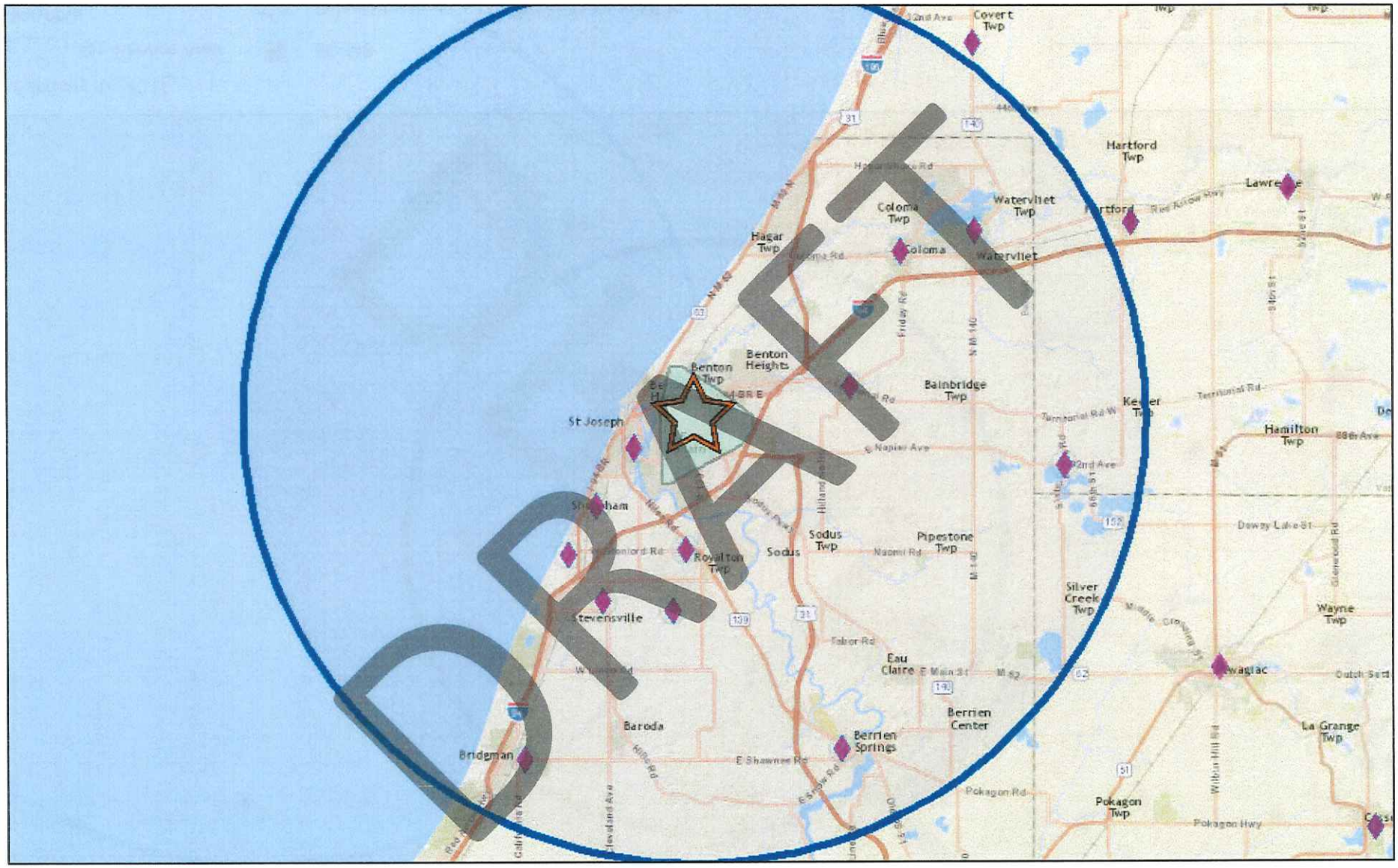
0 2.5 5 10 mi

0 4 8 16 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 10 Miles | Map: State of Michigan - CSS (2017©)

STEAM Academy @ MLK: Quality Schools within 15 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

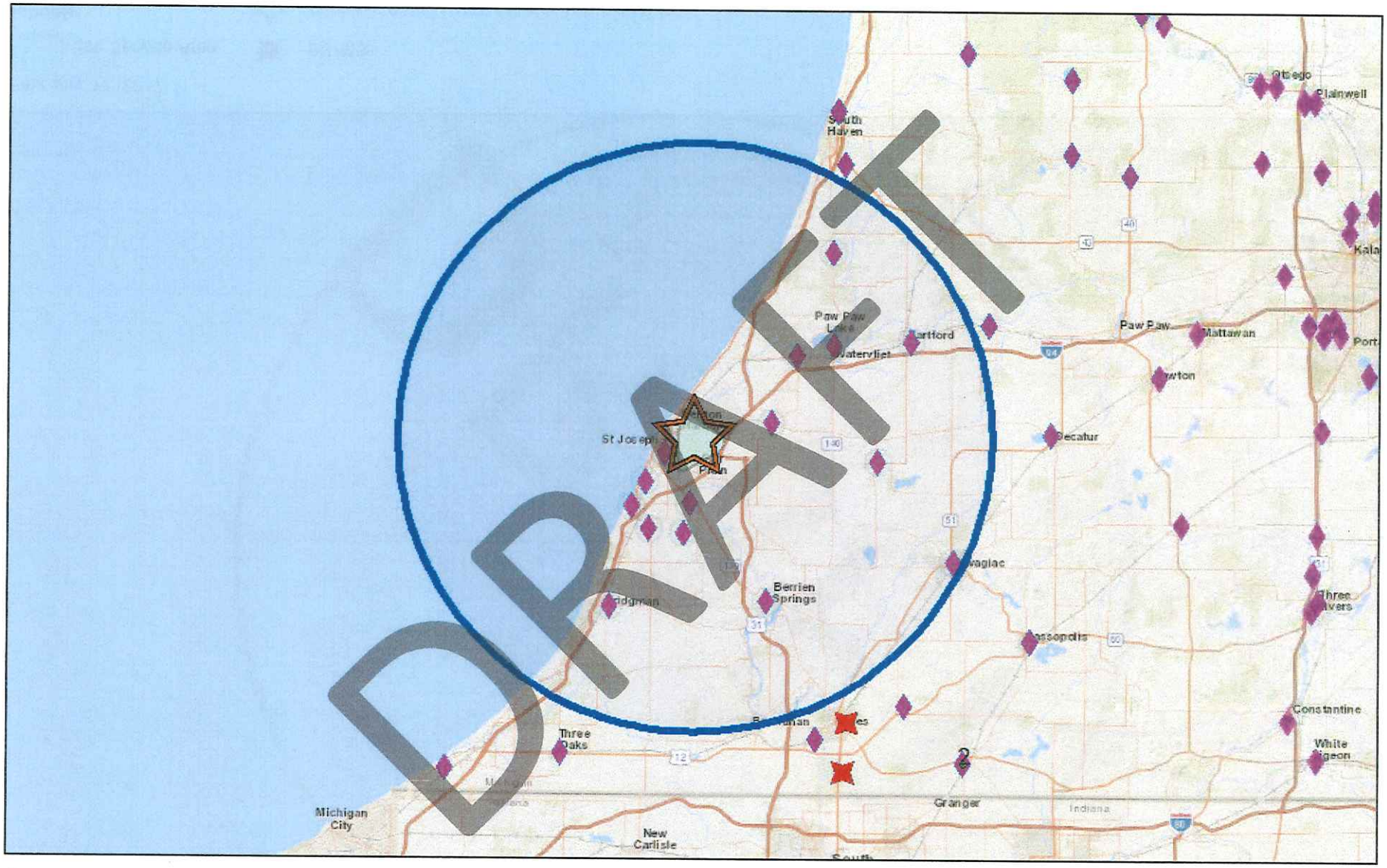
0 2.5 5 10 mi

0 4 8 16 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).

Area Schools radius: 15 Miles | Map: State of Michigan - CSS (2017©)

STEAM Academy @ MLK: Quality Schools within 20 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

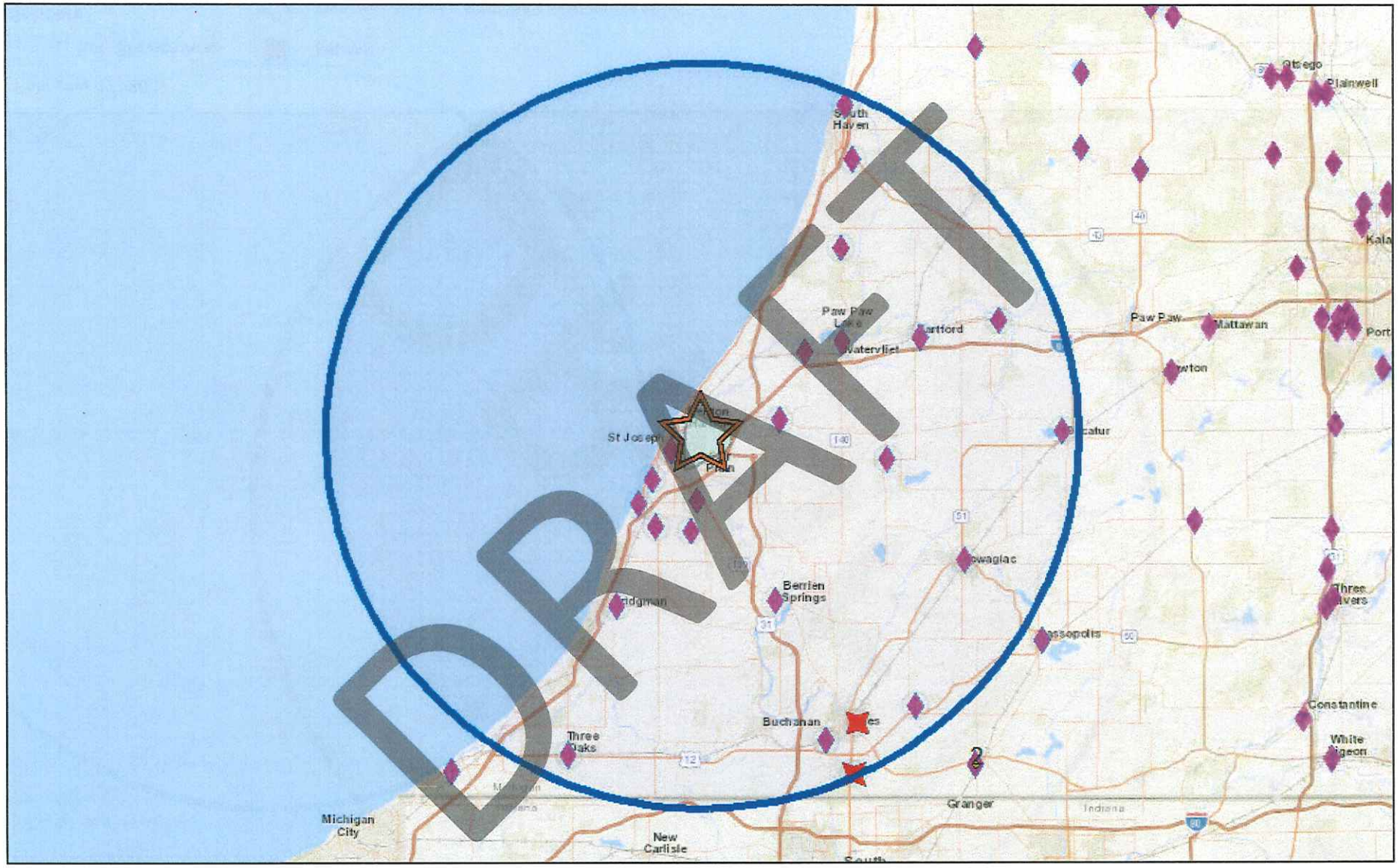
0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand).

Area Schools radius: 20 Miles | Map: State of Michigan - CSS (2017©)

STEAM Academy @ MLK: Quality Schools within 25 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

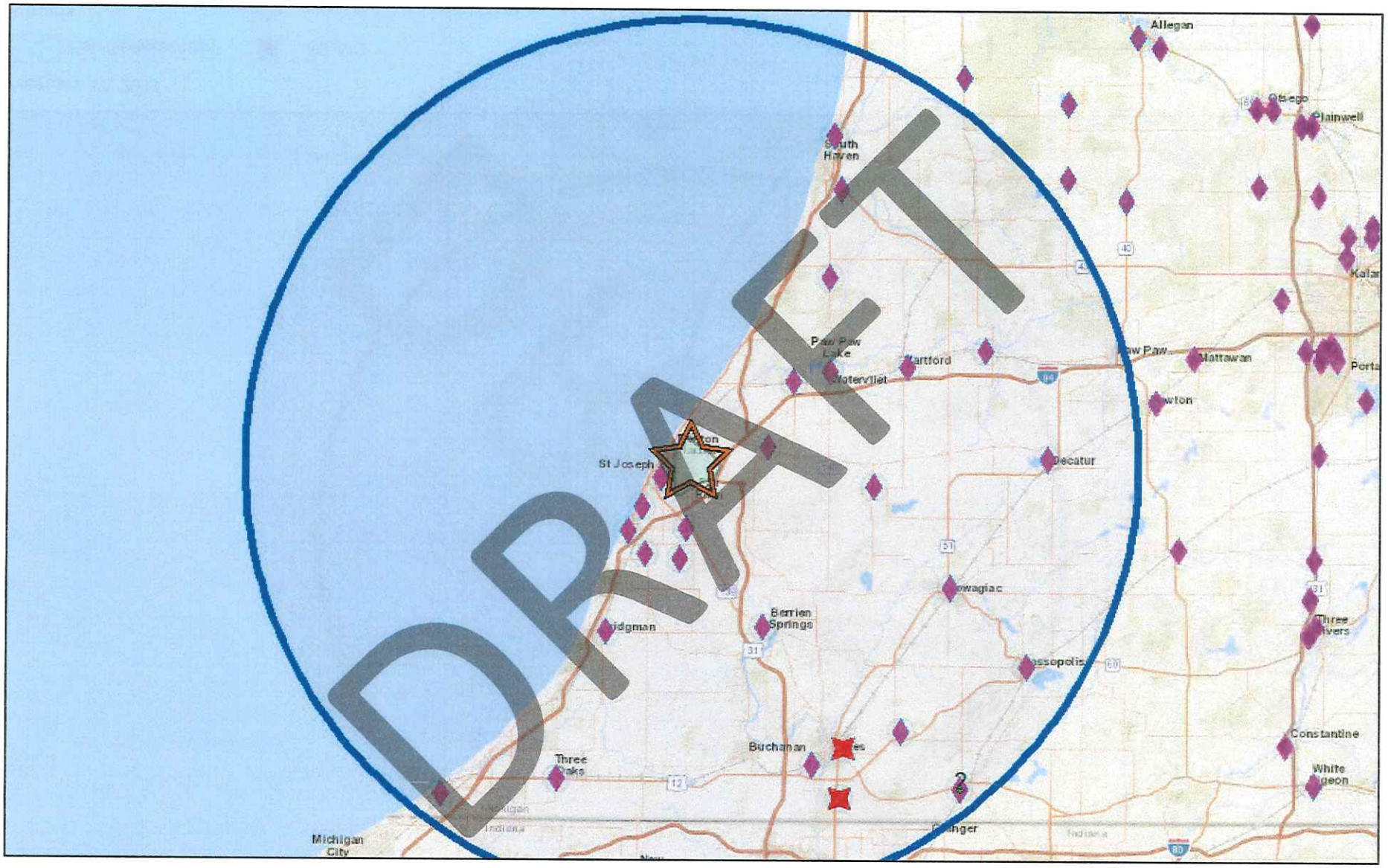
0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 25 Miles | Map: State of Michigan - CSS (2017©)

STEAM Academy @ MLK: Quality Schools within 30 Miles



February 17, 2017

Est. Service Area

Schools

Elementary School

ES-MS

Selected School: STEAM Academy at MLK

0 5 10 20 mi

0 5 10 20 km

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

Area Schools radius: 30 Miles | Map: State of Michigan - CSS (2017©)

Appendix D: Financial Impact

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Appendix C: Financial Impact

Schools Identified for the Next Level of Accountability Outstanding Obligations		
Benton Harbor Area Schools		
Loan Type	**Loan Balance**	**Maturity**
Emergency Loan	$1,870,000.00	2/4/2029
Emergency Loan	$3,300,000.00	5/18/2031
Emergency Loan	$515,000.00	7/11/2026
Emergency Loan	$1,230,000.00	7/11/2026
Emergency Loan	$1,400,000.00	7/11/2026
Emergency Loan	$4,400,000.00	7/11/2031
2002B LGLP- AMBAC	$785,000.00	5/1/2022
2007A LGLP-INS/AMBAC	$980,000.00	5/1/2022
2016 SAN C-3	$7,509,000.00	8/21/2017
2012-13 Series I	$515,000.00	10/20/2026
2013-14 Series I	$1,230,000.00	10/20/2026
2014-15 Series I	$1,400,000.00	10/20/2026
2015-16 Series I	$3,300,000.00	10/20/2031
2016-17 Series I	$4,400,000.00	10/20/2031
Total	$32,834,000.00	

Source: Michigan Department of Treasury

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Appendix C: Financial Impact

Schools' Potential Losses from School Closures						
Benton Harbor Area Schools						
Schools	**Allowance**	**Student Count (Losing)**	**Foundation (Losing)**	**Student Count (Total)**	**Foundation (Total)**	**% of Foundation**
Dream Academy, Benton Harbor Area Schools	$ 7,511	110	$ 826,210	2,256.32	$ 16,947,219.52	4.88%
International Academy at Hull, Benton Harbor Area Schools	$ 7,511	444	$ 3,334,884	2,256.32	$ 16,947,219.52	19.68%
STEAM Academy at MLK, Benton Harbor Area Schools	$ 7,511	421	$ 3,162,131	2,256.32	$ 16,947,219.52	18.66%
TOTAL	$ 7,511	975	$ 7,323,225	2,256.32	$ 16,947,219.52	43.21%
Benton Harbor 2016 Federal Revenues	**General Fund**	$ 4,434,514.43				
	Food Service	$ 2,141,024.87				
	Total	$ 6,575,539.30				

Source: Michigan Department of Treasury