



Contract Change Notice

State of Michigan Procurement

Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

Change Notice Number 5
to
Contract Number 240000000126

Contractor	State
J. Ranck Electric, Inc.	Program Manager
1993 Gover Parkway	Ryan McDonnell MDOT
Mt. Pleasant, MI 48858	989-737-9501
Adam Ranck	McDonnellR1@michigan.gov
President	Contract Administrator
989-775-7393	Anna Swanson MDOT
AJRanck@jranck.com	517-230-2063
CV0031382	Swansona1@michigan.gov

Contract Summary

Description: Bay Region – As Needed Electrical Maintenance, Repair and Emergency Signal Response

Initial Effective Date		Initial Expiration Date		Initial Options Available		Expiration Date Before Change(s) Noted Below	
November 27, 2023		November 26, 2025		3; 1-year		November 26, 2026	
Payment Terms				Delivery Timeframe			
Net 45							
Alternate Payment Options				Extended Purchasing			
N/A				No			
Minimum Delivery Requirements							

Description of Change Notice

Option	Length of Option	Extension	Length of Extension	Revised Exp. Date
Yes	1 year	No	N/A	November 26, 2027
Current Value		Value of Change Notice	Estimated Aggregate Contract Value	
\$805,275.00		\$0.00	\$805,275.00	

Change Notice Summary

Description: Upon execution, the State is exercising the second option year. All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement.



STATE OF MICHIGAN PROCUREMENT
Michigan Department of Transportation
425 W Ottawa St, Lansing, MI 48933
PO Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number **4**
to
Contract Number **240000000126**

CONTRACTOR	J. Ranck Electric, Inc.	STATE	Program Manager	Ryan McDonnell	MDOT
	1993 Gover Parkway			989-737-9501	
	Mt. Pleasant, MI 48858		Contract Administrator	McDonnellR1@michigan.gov	
	Adam Ranck			Anna Swanson	MDOT
	989-775-7393			517-230-2063	
	AJRanck@jranck.com			Swansona1@michign.gov	
	CV0031382				

CONTRACT SUMMARY				
DESCRIPTION: Bay Region – As Needed Electrical Maintenance, Repair and Emergency Signal Response				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
November 27, 2023	November 26, 2025	3; 1-year	November 26, 2026	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No Change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$605,275.00		\$200,000.00	\$805,275.00	
DESCRIPTION: Upon execution, the value of the contract is increased by \$200,000.00. All other terms, conditions, specifications and pricing remain the same. Per contractor and agency agreement.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

Van Wagoner Building – 425 West Ottawa Street, Lansing, MI 48933

P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number **3**
to
Contract Number **240000000126**

CONTRACTOR	J. Ranck Electric, Inc.
	1993 Gover Parkway
	Mt. Pleasant, MI 48858
	Adam Ranck
	989-775-7393
	AJRanck@jranck.com
	CV0031382

STATE	Program Manager	Ryan McDonnell	MDOT
		989-737-9501	
		McDonnellR1@michigan.gov	
	Contract Administrator	Anna Swanson	MDOT
		517-230-2063	
		SwansonA1@michigan.gov	

CONTRACT SUMMARY						
DESCRIPTION: Bay Region - As Needed Electrical Maintenance, Repair and Emergency Signal Response						
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW			
November 27, 2023	November 26, 2025	3, 1-year	November 26, 2025			
PAYMENT TERMS		DELIVERY TIMEFRAME				
Net 45						
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING			
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No			
MINIMUM DELIVERY REQUIREMENTS						
DESCRIPTION OF CHANGE NOTICE						
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE		
☒	1 year	☐		November 26, 2026		
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE			
\$605,275.00		0	\$605,275.00			
DESCRIPTION: Upon execution, this contract is exercising its one-year option to renew with a revised expiration date of November 26, 2026. The original contract was awarded based on low bid, with the original contract value determined by estimated need. All other terms, conditions, and specifications remain the same per contractor and agency agreement.						



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

Van Wagoner Building – 425 West Ottawa Street, Lansing, MI 48933

P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 2

to

Contract Number 240000000126

CONTRACTOR	J. Ranck Electric, Inc.
	1993 Gover Parkway
	Mt. Pleasant, MI 48858
	Adam Ranck
	989-775-7393
	AJRanck@jranck.com
	CV0031382

STATE	Program Manager	Ryan McDonnell	MDOT
		989-737-9501	
		McDonnellR1@michigan.gov	
	Contract Administrator	Anna Swanson	MDOT
		517-230-2063	
		SwansonA1@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: Bay Region - As Needed Electrical Maintenance, Repair and Emergency Signal Response				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
November 27, 2023	November 26, 2025	3, 1-year	November 26, 2025	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$245,275.00		\$360,000.00	\$605,275.00	
DESCRIPTION: Upon execution, the contract value has been increased by \$360,000.00 (State Administrative Board approval 04/22/2025) to cover as needed electrical maintenance, repair and emergency signal response. The Contract Administrator has been updated as noted above. The original contract was awarded based on low bid, with the original contract value determined by estimated need. All other terms, conditions, and specifications remain the same per contractor and agency agreement.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

Van Wagoner Building – 425 West Ottawa Street, Lansing, MI 48933

P.O. Box 30050, Lansing, MI 48909

CONTRACT CHANGE NOTICE

Change Notice Number 1
to
Contract Number 2400000000126

CONTRACTOR	J. Ranck Electric, Inc.
	1993 Gover Parkway
	Mt. Pleasant, MI 48858
	Adam Ranck
	989-775-7393
	AJRanck@jranck.com
	CV0031382

STATE	Program Manager	Ryan McDonnell	MDOT
		989 737-9501	
		McDonnellR1@michigan.gov	
	Contract Administrator	ReChelle I. Kendrick	MDOT
		517-335-5905	
		KendrickR1@michigan.gov	

CONTRACT SUMMARY				
DESCRIPTION: As Needed Electrical Maintenance, Repair and Emergency Signal Response				
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW	
November 27, 2023	November 26, 2025	3, 1-year	November 26, 2025	
PAYMENT TERMS		DELIVERY TIMEFRAME		
Net 45				
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING	
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No	
MINIMUM DELIVERY REQUIREMENTS				
DESCRIPTION OF CHANGE NOTICE				
OPTION	LENGTH OF OPTION	EXTENSION	LENGTH OF EXTENSION	REVISED EXP. DATE
☐		☐		No change
CURRENT VALUE		VALUE OF CHANGE NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE	
\$145,275.00		\$100,000.00	\$245,275.00	
DESCRIPTION: Upon execution, the contract value has been increased by \$100,000.00 to cover as needed electrical maintenance, repair and emergency signal response. The original contract was awarded based on low bid, with the original contract value determined by estimated need. All other terms, conditions, and specifications remain the same per Contractor and Agency agreement.				



STATE OF MICHIGAN PROCUREMENT

Michigan Department of Transportation

Van Wagoner Building – 425 West Ottawa Street, Lansing, MI 48933
P.O. 30050, Lansing, MI 48909

NOTICE OF CONTRACT

NOTICE OF CONTRACT NO. **2400000000126**

between

THE STATE OF MICHIGAN

and

CONTRACTOR	J. Ranck Electric, Inc.
	1993 Gover Parkway
	Mt. Pleasant, MI 48858
	Adam Ranck
	989-775-7393
	AJRanck@jranck.com
	CV0031382

STATE	Program Manager	Ryan McDonell	MDOT
		989 737-9501	
		McDonnellR1@michigan.gov	
	Contract Administrator	ReChelle I. Kendrick	MDOT
		517-335-5905	
		KendrickR1@michigan.gov	

CONTRACT SUMMARY

DESCRIPTION: As Needed Electrical Maintenance, Repair and Emergency Signal Response

INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW
November 27, 2023	November 26, 2025	3, 1-year	
PAYMENT TERMS		DELIVERY TIMEFRAME	
Net 45			
ALTERNATE PAYMENT OPTIONS			EXTENDED PURCHASING
☐ P-card ☐ Payment Request (PRC) ☐ Other			☐ Yes ☒ No
MINIMUM DELIVERY REQUIREMENTS			
MISCELLANEOUS INFORMATION			
THIS IS NOT AN ORDER. This Contract Agreement is awarded on the basis of the State's inquiry bearing the solicitation number 2400000000102. Orders for Delivery will be issued directly by MDOT through the issuance of a Delivery Order.			
ESTIMATED CONTRACT VALUE AT TIME OF EXECUTION			\$145,275.00

STANDARD CONTRACT TERMS

This STANDARD CONTRACT (“**Contract**”) is agreed to between the State of Michigan (the “**State**”) and J. Ranck Electric Inc. (“**Contractor**”), a Michigan corporation. This Contract is effective on November 27, 2023 (“**Effective Date**”), and unless terminated, will expire on November 26, 2025. (the “**Term**”).

This Contract may be renewed for up to three additional one-year options to renew. Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.

The parties agree as follows:

- 1. Duties of Contractor.** Contractor must perform the services and provide the deliverables (the “**Contract Activities**”) described in a Statement of Work, the initial Statement of Work is attached as Schedule A – Statement of Work. An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities unless otherwise specified in a Statement of Work.

Contractor must: (a) perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry; (b) meet or exceed the performance and operational standards, and specifications of the Contract; (c) provide all Contract Activities in good quality, with no material defects; (d) not interfere with the State’s operations; (e) obtain and maintain all necessary licenses, permits or other authorizations necessary for the performance of the Contract; (f) cooperate with the State, including the State’s quality assurance personnel, and any third party to achieve the objectives of the Contract; (g) return to the State any State-furnished equipment or other resources in the same condition as when provided when no longer required for the Contract; (h) assign to the State any claims resulting from state or federal antitrust violations to the extent that those violations concern materials or services supplied by third parties toward fulfillment of the Contract; (i) comply with all State physical and IT security policies and standards which will be made available upon request; and (j) provide the State priority in performance of the Contract except as mandated by federal disaster response requirements. Any breach under this paragraph is considered a material breach.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

- 2. Notices.** All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.

If to State:	If to Contractor:
ReChelle I. Kendrick MDOT- Contract Services Division 425 W. Ottawa Street Lansing, MI 48933 KendrickR1@michigan.gov 517-335-5905	Adam J. Ranck J. Ranck Electric, Inc. 1993 Gover Parkway Mt. Pleasant, MI 48858 AJRanck@jranck.com 989-775-7393

3. **Contract Administrator.** The Contract Administrator, or the individual duly authorized for each party, is the only person authorized to modify any terms of this Contract, and approve and execute any change under this Contract (each a “**Contract Administrator**”):

State:	Contractor:
ReChelle I. Kendrick MDOT- Contract Services Division 425 W. Ottawa Street Lansing, MI 48933 KendrickR1@michigan.gov 517-335-5905	Adam J. Ranck J. Ranck Electric, Inc. 1993 Gover Parkway Mt. Pleasant, MI 48858 AJRanck@jranck.com 989-775-7393

4. **Program Manager.** The Program Manager for each party will monitor and coordinate the day-to-day activities of the Contract (each a “**Program Manager**”):

State:	Contractor:
Ryan McDonnell Bay Region Office Operations 5859 Sherman Rd. Saginaw, MI 48604 mcdonnellr1@michigan.gov 989 737-9501	Adam J. Ranck J. Ranck Electric, Inc. 1993 Gover Parkway Mt. Pleasant, MI 48858 AJRanck@jranck.com 989-775-7393

5. **Performance Guarantee.** Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in a Statement of Work) if, in the opinion of the State, it will ensure performance of the Contract.

6. **Insurance Requirements.**

- a. **General Requirements.** Contractor, at its sole expense, must maintain the insurance coverage as specified herein for the duration of the Term. Minimum limits may be satisfied by any combination of primary liability, umbrella or excess liability, and self-insurance coverage. To the extent damages are covered by any required insurance, Contractor waives all rights against the State for such damages. Failure to maintain required insurance does not limit this waiver.
- b. **Qualification of Insurers.** Except for self-insured coverage, all policies must be written by an insurer with an A.M. Best rating of A- VII or higher unless otherwise approved by DTMB Enterprise Risk Management.
- c. **Primary and Non-Contributory Coverage.** All policies for which the State of Michigan is required to be named as an additional insured must be on a primary and non-contributory basis.

- d. **Claims-Made Coverage.** If any required policies provide claims-made coverage, Contractor must:
 - (1) Maintain coverage and provide evidence of coverage for at least 3 years after the later of the expiration or termination of the Contract or the completion of all its duties under the Contract;
 - (2) Purchase extended reporting coverage for a minimum of 3 years after completion of work if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of this Contract
- e. **Proof of Insurance**
 - (1) Insurance certificates showing evidence of coverage as required herein must be submitted to the Contract Administrator within 10 days of the contract execution date.
 - (2) Renewal insurance certificates must be provided on annual basis or as otherwise commensurate with the effective dates of coverage for any insurance required herein.
 - (3) Insurance certificates must be in the form of a standard ACORD Insurance Certificate unless otherwise approved by DTMB Enterprise Risk Management.
 - (4) All insurance certificates must clearly identify the Contract Number (e.g., notated under the Description of Operations on an ACORD form).
 - (5) The State may require additional proofs of insurance or solvency, including but not limited to policy declarations, policy endorsements, policy schedules, self-insured certification/authorization, and balance sheets.
 - (6) In the event any required coverage is cancelled or not renewed, Contractor must provide written notice to the Contract Administrator no later than 5 business days following such cancellation or nonrenewal.
- f. **Subcontractors.** Contractor is responsible for ensuring its subcontractors carry and maintain insurance coverage.
- g. **Limits of Coverage & Specific Endorsements.** (See Table 6.1 Below)

TABLE 6.1

Required Limits	Additional Requirements
Commercial General Liability Insurance	
Minimum Limits: \$1,000,000 Each Occurrence \$1,000,000 Personal & Advertising Injury \$2,000,000 Products/Completed Operations \$2,000,000 General Aggregate	Contractor must have their policy endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds using endorsement CG 20 10 11 85, or both CG 20 10 12 19 and CG 20 37 12 19.
Umbrella or Excess Liability Insurance	
Minimum Limits: \$5,000,000 General Aggregate	Contractor must have their policy follow form.
Automobile Liability Insurance	
Minimum Limits: \$1,000,000 Per Accident	Contractor must have their policy: (1) endorsed to add "the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.
Workers' Compensation Insurance	
Minimum Limits: Coverage according to applicable laws governing work activities.	Waiver of subrogation, except where waiver is prohibited by law.
Employers Liability Insurance	
Minimum Limits: \$500,000 Each Accident \$500,000 Each Employee by Disease \$500,000 Aggregate Disease	

h. Non-Waiver. This Section 6 is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract, including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State.

7. Reserved.

8. Reserved.

9. Relationship of the Parties. The relationship between the parties is that of independent contractors. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an

independent contractor. Neither party has authority to contract for nor bind the other party in any manner whatsoever.

- 10. Intellectual Property Rights.** If a Statement of Work requires Contractor to create any intellectual property, Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Contract Activities and all associated intellectual property rights, if any. Such Contract Activities are works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Contract Activities and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does, immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Contract Activities, including all intellectual property rights therein.
- 11. Subcontracting.** Contractor may not delegate any of its obligations under the Contract without the prior written approval of the State. Contractor must notify the State at least 90 calendar days before the proposed delegation and provide the State any information it requests to determine whether the delegation is in its best interest. If approved, Contractor must: (a) be the sole point of contact regarding all contractual matters, including payment and charges for all Contract Activities; (b) make all payments to the subcontractor; and (c) incorporate the terms and conditions contained in this Contract in any subcontract with a subcontractor. Contractor remains responsible for the completion of the Contract Activities, compliance with the terms of this Contract, and the acts and omissions of the subcontractor. The State, in its sole discretion, may require the replacement of any subcontractor.
- 12. Staffing.** The State's Contract Administrator may require Contractor to remove or reassign personnel providing services by providing a notice to Contractor.
- 13. Background Checks.** Pursuant to Michigan law, all agencies subject to IRS Pub. 1075 are required to ask the Michigan State Police to perform fingerprint background checks on all employees, including Contractor and Subcontractor employees, who may have access to any database of information maintained by the federal government that contains confidential or personal information, including, but not limited to, federal tax information. Further, pursuant to Michigan law, any agency described above is prohibited from providing Contractors or Subcontractors with the result of such background check. For more information, please see Michigan Public Act 427 of 2018. Upon request, or as may be specified in a Statement of Work, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
- 14. Assignment.** Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third party is

necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.

- 15. Change of Control.** Contractor will notify the State, within 30 days of any public announcement or otherwise once legally permitted to do so, of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.

In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.

- 16. Ordering.** Contractor is not authorized to begin performance until receipt of authorization as identified in a Statement of Work.
- 17. Acceptance.** Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("**State Review Period**"), unless otherwise provided in a Statement of Work. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State Review Period that either: (a) the Contract Activities are accepted but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 24, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

- 18. Delivery.** Contractor must deliver all Contract Activities F.O.B. destination, within the State premises with transportation and handling charges paid by Contractor, unless otherwise specified in a Statement of Work. All containers and packaging become the State's exclusive property upon acceptance.
- 19. Risk of Loss and Title.** Until final acceptance, title and risk of loss or damage to Contract Activities remains with Contractor. Contractor is responsible for filing, processing, and collecting all damage claims. The State will record and report to Contractor any evidence of visible damage. If the State rejects the Contract Activities, Contractor must remove them from the premises within 10 calendar days after notification of rejection. The risk of loss of rejected or non-conforming Contract Activities remains with Contractor. Rejected Contract Activities not removed by Contractor within 10 calendar days will be deemed abandoned by Contractor, and the State will have the right to dispose of it as its own property. Contractor must reimburse the State for costs and expenses incurred in storing or effecting removal or disposition of rejected Contract Activities.
- 20. Warranty Period.** The warranty period, if applicable, for Contract Activities is a fixed period commencing on the date specified in a Statement of Work. If the Contract Activities do not function as warranted during the warranty period, the State may return such non-conforming Contract Activities to the Contractor for a full refund.
- 21. Invoices and Payment.** Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of the State's receipt. Contractor may only charge for Contract Activities provided as specified in a Statement of Work. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. Notwithstanding the foregoing, all fees are exclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at <http://www.michigan.gov/SIGMAVSS> to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

Excluding federal government charges and terms, Contractor warrants and agrees that each of the fees, economic or product terms or warranties granted pursuant to this Contract are comparable to or better than the equivalent fees, economic or product term or warranty being offered to any commercial or government customer (including any public educational institution within the State of Michigan) of Contractor. If Contractor enters into any arrangements with another customer of Contractor to provide the products or services, available under this Contract, under more favorable prices, as the prices may be indicated on Contractor's current U.S. and International price list or comparable document, then this Contract will be deemed amended as of the date of such other arrangements to incorporate those more favorable prices, and Contractor will immediately notify the State of such fee and formally memorialize the new pricing in a change notice.

22. **Liquidated Damages.** Liquidated damages, if applicable, will be assessed as described in a Statement of Work. The parties understand and agree that any liquidated damages (which includes but is not limited to applicable credits) set forth in this Contract are reasonable estimates of the State's damages in accordance with applicable law. The parties acknowledge and agree that Contractor could incur liquidated damages for more than 1 event. The assessment of liquidated damages will not constitute a waiver or release of any other remedy the State may have under this Contract for Contractor's breach of this Contract, including without limitation, the State's right to terminate this Contract for cause under Section 24 and the State will be entitled in its discretion to recover actual damages caused by Contractor's failure to perform its obligations under this Contract. However, the State will reduce such actual damages by the amounts of liquidated damages received for the same events causing the actual damages. Amounts due the State as liquidated damages may be set off against any fees payable to Contractor under this Contract, or the State may bill Contractor as a separate item and Contractor will promptly make payments on such bills.
23. **Stop Work Order.** The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.
24. **Termination for Cause.** (a) The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (i) endangers the value, integrity, or security of any facility, data, or personnel; (ii) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (iii) engages in any conduct that may expose the State to liability; (iv) breaches any of its material duties or obligations under this Contract; or (v) fails to cure a breach within the time stated by the State in a notice of breach, if in its sole discretion the State has chosen to provide a time to cure. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

(b) If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (i) cease performance immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due to Contractor for Contract Activities accepted by the State under this Contract or (ii) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in Section 25, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. Contractor must promptly reimburse to the State any fees prepaid by the State prorated to the date of such termination, including any prepaid fees. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.

25. Termination for Convenience. The State may immediately terminate this Contract in whole or in part without penalty and for any reason or no reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately. Contractor must submit all invoices for Contract Activities accepted by the State within 30 days of the date of termination. Failure to submit an invoice within that timeframe will constitute a waiver by Contractor for any amounts due Contractor for Contract Activities accepted by the State under this Contract, or (b) continue to perform the Contract Activities in accordance with Section 26, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities to the extent the funds are available.

26. Transition Responsibilities. Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed 90 calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (d) preparing an accurate

accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, “**Transition Responsibilities**”). This Contract will automatically be extended through the end of the transition period.

- 27. Return of State Property.** Upon termination or expiration of this Contract for any reason, Contractor must take all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to the Contractor by any entity, agent, vendor, or employee of the State.
- 28. Indemnification.** Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor’s employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor’s employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of Contractor (or any of Contractor’s employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense, at its own cost and expense, if the State deems necessary. Contractor will not, without the State’s prior written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding.

Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

The State is constitutionally prohibited from indemnifying Contractor or any third parties.

- 29. Infringement Remedies.** If, in either party’s opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent,

trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.

- 30. Limitation of Liability and Disclaimer of Damages.** IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT. The State is not liable for consequential, incidental, indirect, or special damages, regardless of the nature of the action.
- 31. Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "**Proceeding**") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public entity's claim or written allegation of fraud; or (3) any complaint filed in a legal or administrative proceeding alleging the Contractor or its subcontractors discriminated against its employees, subcontractors, vendors, or suppliers during the term of this Contract; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.
- 32. State Data.** All data and information provided to Contractor by or on behalf of the State, and all data and information derived therefrom, is the exclusive property of the State ("**State Data**"); this definition is to be construed as broadly as possible. Upon request, Contractor must provide to the State, or a third party designated by the State, all State Data within 10 calendar days of the request and in the format requested by the State. Contractor will assume all costs incurred in compiling and supplying State Data. No State Data may be used for any marketing or commercial purposes.
- 33. Reserved.**
- 34. Non-Disclosure of Confidential Information.** The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties.
- a. **Meaning of Confidential Information.** For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked

“confidential” or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked “confidential” or with words of similar meaning; or, (c) should reasonably be recognized as confidential information of the disclosing party. The term “Confidential Information” does not include any information or documentation that was or is: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party’s proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.

- b. **Obligation of Confidentiality.** The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.
- c. **Cooperation to Prevent Disclosure of Confidential Information.** Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
- d. **Remedies for Breach of Obligation of Confidentiality.** Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the

immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.

- e. **Surrender of Confidential Information upon Termination.** Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible, such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party. However, the State's legal ability to destroy Contractor data may be restricted by its retention and disposal schedule, in which case Contractor's Confidential Information will be destroyed after the retention period expires.

35. Reserved.

36. Reserved.

37. Reserved.

- 38. Records Maintenance, Inspection, Examination, and Audit.** Pursuant to MCL 18.1470, the State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain and provide to the State or its designee and the auditor general upon request, all records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment under this Contract or any extension ("**Audit Period**"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- 39. Representations and Warranties.** Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (c) the Contract Activities will

not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third party; (d) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (e) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (f) the Contract signatory has the authority to enter into this Contract; (g) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; (h) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 24, Termination for Cause.

- 40. Conflicts and Ethics.** Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.
- 41. Compliance with Laws.** Contractor must comply with all federal, state and local laws, rules and regulations.
- 42. Reserved.**
- 43. Reserved.**
- 44. Nondiscrimination.** Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and [Executive Directive 2019-09](#). Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.
- 45. Unfair Labor Practice.** Under MCL 423.324, the State may void this Contract if the name of the Contractor, or the name of a subcontractor, manufacturer, or supplier of

the Contractor, subsequently appears on the Unfair Labor Practice register compiled under MCL 423.322.

- 46. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in the Michigan Court of Claims. Contractor waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint an agent in Michigan to receive service of process.
- 47. Non-Exclusivity.** Nothing contained in this Contract is intended nor is to be construed as creating any requirements contract with Contractor, nor does it provide Contractor with a right of first refusal for any future work. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.
- 48. Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third party.
- 49. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved, unless the dispute precludes performance. A dispute involving payment does not preclude performance.

 Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.
- 50. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without the prior written approval of the State, and then only in accordance with the explicit written instructions of the State.
- 51. Schedules.** All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Document Title	Document Description
Schedule A	Statement of Work
Schedule B	Pricing
Attachment A	Documentation/Forms
Attachment B	Device Inventory

- 52. Entire Agreement and Order of Precedence.** This Contract, which includes Statement of Work, and schedules and exhibits, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Statement of Work; (b) second, Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES, OR DOCUMENTATION HEREUNDER, EVEN IF ATTACHED TO THE STATE'S DELIVERY OR PURCHASE ORDER, WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ANY AUTHORIZED USER FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE AND THE AUTHORIZED USER, EVEN IF ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.
- 53. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 54. Waiver.** Failure to enforce any provision of this Contract will not constitute a waiver.
- 55. Survival.** Any right, obligation or condition that, by its express terms or nature and context is intended to survive, will survive the termination or expiration of this Contract; such rights, obligations, or conditions include, but are not limited to, those related to transition responsibilities; indemnification; disclaimer of damages and limitations of liability; State Data; non-disclosure of Confidential Information; representations and warranties; insurance and bankruptcy.
- 56. Contract Modification.** This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended.

SCHEDULE A – STATEMENT OF WORK CONTRACT ACTIVITIES

Contract No.: 2400000000126
**As Needed Electrical Maintenance, Repair
and Emergency Signal Response**

BACKGROUND

The Michigan Department of Transportation's Bay Region provides transportation related construction and maintenance needs for local communities within their jurisdiction.

SCOPE

Work included in this contract shall consist of responding to routine maintenance and emergency traffic signal services for Bay Region (Arenac, Bay, Clare, Gladwin, Gratiot, Huron, Isabella, Lapeer, Midland, Saginaw, Sanilac, Shiawassee, St. Clair, and Tuscola counties) 24 hours a day, 365 days a year, by a **Michigan Department of Transportation (MDOT) prequalified Contractor for Electrical Construction**. The Contractor shall supply all personnel, training, tools, equipment and any other needs necessary to always maintain the system in a first-class operating condition.

The Contractor shall promptly respond to all emergency calls regardless of the hour. Emergency Traffic Signal Response will be for the 551 signal locations as shown in Attachment B. Locations identified above will include all controllers, internally illuminated case signs, pedestrian signals, traffic control signals of all types, traffic signal poles, messenger or support cables, mast arms, in-pavement loop detectors for signal actuation, pedestrian push buttons, overhead lane designation signs, wiring and all other pertinent and related equipment existing at the time the contract is executed.

The Contractor should reasonably maintain a sufficient inventory (supplied by MDOT) of signals, controllers, detectors and all incidental brackets, fittings, cables, illuminated signs, LED signal heads, etc. necessary for the completion of intersection repairs as may be required. Controllers and other major components furnished must be consistent (i.e., the same make and manufacturer) with signal equipment already in use and in operation on the system under MDOT jurisdiction.

MDOT shall supply materials listed below:

Cabinet – including electrical devices inside the cabinet
Signal heads
Case Sign
Pedestrian heads
Pedestrian inserts
Pedestrian poles

1. REQUIREMENTS

1.1. General Requirements

All work shall be performed by a licensed electrician and overseen by a licensed master electrician. Contractor personnel shall possess all required training and certification necessary to perform Contract Activities. The Contractor shall provide personnel with adequate training to keep them well informed of new innovations, techniques, and equipment in the field of traffic signal control.

- A. Unless stated otherwise, work under this Contract shall be done in accordance with the MDOT Standard Specifications for Construction, 2020 Edition see: <https://mdotjboss.state.mi.us/SpecProv/specBookHome.htm>), and the special provisions contained herein.
- B. The Contractor shall be responsible for the cost and replacement of any damage resulting from performing Contract Activities.
- C. MDOT will not be responsible for any citations, fines or tickets received, while performing Contract Activities.
- D. The Contractor shall be directly and solely responsible for disposal of surplus and unsuitable material as stated within the currently published MDOT Standard Specifications for Construction, 205.03.P.2.
- E. Contract Activities require personnel to comply with High Visibility clothing requirements. All workers must wear high-visibility safety apparel as specified in the Michigan Manual of Uniform Traffic Control Devices [see [MDOT - Transportation Standards and Special Details \(state.mi.us\)](#)], Sections 6D.03 and 6E.02.
- F. Any use of subcontractors must be currently listed on the MDOT Prequalification list prior to award.

1.2. Bonds

The Contractor must furnish performance and lien bonds each for not less than 100% of the total contract price. The bonds must be on forms provided by MDOT. The bonds must meet the requirements of Michigan law and MDOT and include other items such as the Powers of Attorney and Endorsement as specified by MDOT. The same surety responsible for writing the performance bond must write the lien bond. It is the Contractor's responsibility to ensure that the lien bond conforms with the terms of MCL 570.101 et seq.

1.3. MMUTCD Compliance

The maintenance of traffic signals shall conform to the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), current edition.

The Contractor shall have a thorough knowledge of MDOT's requirements for traffic signal installation and maintenance as specified in Part IV – Signals, Michigan Manual of Uniform Traffic Control Devices.

The Contractor shall keep fully informed of any changes in said manual which affects traffic signal installation and maintenance.

1.4. Site Investigation

Contractor shall investigate and become familiar with conditions relating to the work to be performed according to the Contract and specifications. Failure on the part of the Contractor to investigate or inspect will not be grounds for additional compensation under the terms, conditions and specifications of this Contract.

The Contractor shall be aware of the conditions under which the required work is to be performed, the areas of work, obstacles which may be encountered, and all other relevant matters concerning the work required.

1.5. Traffic Control

The Contractor, in the course of doing normal signal maintenance or emergency repair work, shall place and maintain standard signs and barricades whenever necessary to protect the public; and during times of darkness, shall place and maintain sufficient non-extinguishable lights as will effectively warn and safeguard the public against crashes.

- A. Traffic control devices shall conform to the current Michigan Manual of Uniform Traffic Control Devices.
- B. All such devices shall be furnished by the Contractor.
- C. All maintenance of traffic operations shall follow MMUTCD and MDOT guidance consistent with the operation.

All protection and control devices within areas of construction shall be considered as incidental to the protection of the public and no extra payment shall be made. For purposes of this Contract, the area of construction shall be considered any area in which work is in such a stage that safe travel of the public is affected.

The occurrence of any accident/crash involving public use of the streets or sidewalks while the Contractor has work under progress and where the person involved was walking or was operating a vehicle in a prudent manner shall be considered evidence of insufficient protection as herein prescribed.

The Contractor, as far as practical, shall keep the streets and grounds free of equipment, new material, rubbish, evacuated material and debris during progress of any work required.

Temporary crossings shall be provided and maintained by the Contractor for vehicular and pedestrian traffic during the construction of an improvement, including temporary roadways for the use of police, fire, schools, hospitals and driveways in use and alley returns. Such crossings and temporary roadways shall be provided at locations to such widths and lengths as directed by MDOT.

Maintenance Work Zone Traffic Control Guidelines can be found at:
https://www.michigan.gov/documents/zonecontrol_112912_7.pdf

Work Zones Maintaining Traffic Typical can be found at:
<https://mdotjboss.state.mi.us/TSSD/tssdHome.htm>

1.6. Adequate Equipment and Material

The Contractor shall have all necessary equipment, tools, supplies/material, and/or software to safely install and maintain traffic signals, traffic signal poles, inner-connect cable and all other signal equipment such as case signs, pedestrian signals, overhead lane designation signs and any other related equipment.

MDOT shall assume responsibility for all availability of any materials, equipment or components required under this Contract. MDOT shall be responsible for the quality and standards of all materials, equipment and components under this Contract.

MDOT shall have the right to inspect any material to be used in carrying out the terms of this Contract. Materials, equipment, components or completed work supplied by the Contractor not complying with requirements may be rejected by the MDOT and shall be replaced by the Contractor at no cost to the MDOT.

1.7. Additional Traffic Control Devices

MDOT has the right to add new signals to this Contract. MDOT shall notify the Contractor in writing when any new signal is installed, and the new signal location shall be added to this Contract. Each new location shall be added at the contracted unit price. The monthly increase together with the base price shall be paid to the Contractor for monthly traffic signal maintenance for the balance of the contract term.

1.8. Project Plan

The Contractor shall create a project plan annually and submit to the MDOT Project Manager for review. The plan must include, at a minimum, signals' last date of service, resources required, process for addressing issues and/or changes, log of non-routine work.

1.9. Warranties

The State reserves the right to require additional warranties other than those identified by the Contractor in its response to this RFP.

1.10. Transition

Post-Contract Transition

Invoices must be sent within 45 days after expiration of contract. Any invoices received after 45 days will result in a non-payment of invoice.

2. Service Requirements

2.1. Routine Maintenance

(Regular hours of work are defined as 6:00 am to 6:00 pm).

This item includes all authorized traffic signal, electrical, and ITS maintenance, repair, and inspection. The work includes labor, training, materials, supplies, and transportation needed to complete the work.

2.2. Non-Routine Signal Maintenance

(Non-Routine hours of work are defined as 6 pm to 6 am)

Work shall be authorized by MDOT Program Manager. These activities include, but are not limited to the following:

- i. Installing, relocating, or removing of signal components, i.e., signal heads including LED, pedestrian signal heads including LED, controllers, detection equipment, cabinets, case signs, overhead signs, time-based coordinators, messenger, steel poles, mast arms, wood poles, pedestals, conduit, uninterrupted power supply (UPS) units, and replacement or installation of new pavement loops.
- ii. Inspection and cleaning of freeway lighting, rest area lighting, and other facilities' lighting may be required but will be considered and paid as Routine Signal Maintenance – Regular.
- iii. All maintenance repairs, installations shall require a written estimate and approval from the MDOT Project Manager, prior to start of work. Maintenance work will be reviewed and paid as Routine Signal Maintenance – Regular.

2.3. Emergency/Urgent (On Call)

(Contractor available 24/7 for emergencies)

It is understood and agreed that time is of the essence in respect to emergency repair work contemplated hereunder and the Contractor agrees to do all work covered by the Contract in conformity with the provisions set forth herein and to perform all work with all due diligence so as to complete any work required under this Contract within the shortest, reasonable period of time. Emphasis shall be placed on work resulting from a traffic crash.

Such work must be completed as soon as possible, but in any event, within 24 hours of official notification by the MDOT Program Manager. The Contractor is responsible to provide MDOT all required documentation as shown in **Attachment A - Documentation/Forms** with each billing for timely payment.

- i. Any call deemed an emergency shall be responded to immediately and onsite within three (3) hours or less.
- ii. The Contractor shall respond to and repair all emergency trouble calls from authorized MDOT personnel within 24 hours and paid as Monthly Fee for On-Call Services.
- iii. Notify MDOT Program Manager upon work completion.

2.4. Equipment & Parts – Direct Expenses

- i. Parts, components, and equipment purchased by the Contractor for any contract activity are reimbursable upon pre-approval from MDOT Program Manager, at a cost plus 5% surcharge administrative cost to the Contractor.
- ii. Parts, components, and equipment purchased by the Contractor shall require a written estimate and approval from the MDOT Program Manager

prior to the start of the work. Any applicable manufacturers, warranties on equipment must also be submitted prior to reimbursement by MDOT.

3. Service Requirements

3.1. Timeframes

All emergency calls must be responded to within three hours of contact and completed within one calendar day. Non-routine calls must be responded to and completed within two calendar days. The receipt of order date is pursuant to the **Notices** section of the *Standard Contract Terms*.

3.2. Reporting

The Contractor is required to document the work completed under this Contract. Detailed maintenance records on each individual signalized intersection shall be kept of all phases of cleaning, maintaining, repairing, etc. A "Traffic Signal Trouble Report" and "Job Report" (see Attachment A - Documentation/Forms) shall be completed and submitted by the Contractor for any maintenance activity and emergency repair work. The record shall include date, time and the work performed. It shall include a listing of all equipment, parts replaced, including lamp bulbs. Such records along with invoices (if any) shall be filed monthly with the MDOT Project Manager.

3.3. Meetings

The Contractor shall attend a Kick-off meeting within two weeks of the Contract effective date. The Contractor shall attend an annual coordination meeting to review projects and Contract Activities.

The State may request other meetings as it deems appropriate.

4. Staffing

4.1. Key Personnel

The Contractor must always have a licensed electrician at the sites to supervise and direct the work of its employees. The Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of the professional services performed. The Contractor shall appoint and designate, in writing, a Key Personnel("Key Personnel").

The Key Personnel shall have full authority to act on behalf of the Contractor and all communications given to the Key Personnel shall be binding. The Project Supervisor shall be present to the extent necessary to perform adequate supervision and coordination of the work.

The Contractor may not remove or assign Key Personnel without the prior consent of the State. Prior consent is not required for reassignment for reasons beyond the Contractor's control, including illness, disability, death, leave of absence, personal emergency circumstances, resignation, or termination for cause. The State may request a résumé and conduct an interview before approving a change. The State may require a 30-calendar day training period for replacement personnel.

The bidder must identify the Key Personnel, indicate where they will be physically located, describe the functions they will perform, and provide current chronological résumés.

The Project Manager will be MDOT's primary, first point of contact.

Project Manager Contact Information:

Name	Nate Stainsby
Title	Project Manager
Office Phone	989-334-3150
Mobile Phone	989-621-4842
Email Address	nstainsby@jranck.com

The Field Supervisor will be MDOT's secondary contact and will support the primary, when needed for routine maintenance and or emergency calls.

Field Supervisor Contact Information:

Name	Bob Hemminger
Title	Labor Director
Mobile Phone	810-691-3517
Email Address	bhemminger@jranck.com

4.2. Non-Key Personnel

The Contractor must notify the Contract Administrator at least 10-calendar days before removing or assigning non-key personnel.

4.3. Technical Support, Repairs and Maintenance

The Contractor has listed 989-621-4842 as its number for the State to contact the Contractor for technical support, repairs and maintenance. The Contractor must be available 24 hours, 7 days a week.

4.4. Subcontractors

The State reserves the right to utilize subcontractors who are listed on the MDOT Prequalification List to perform contract activities that may arise throughout the term of this Contract.

5. Pricing

5.1. Price Term

Pricing is firm for the entire length of the Contract.

6. Ordering

6.1. Authorizing Document

The appropriate authorizing document for the Contract will be Delivery Order.

7. Acceptance

7.1. Acceptance, Inspection and Testing

Acceptance shall occur when the MDOT Program Manager or designee inspects and approves the completed work. To include but not limited to visual (VI) and or testing and use of the checklist (Attachment A) for each intersection.

To allow for an inspection or tentative approval of completed work, the Contractor will notify the MDOT Program Manager, or designee when any service has ended. This will allow the Contractors to make any corrections in a satisfactory manner within specified timeframes for completion.

7.2. Final Acceptance

Standard Terms, item 17, will supersede, if MDOT stated process is not met as determined by the MDOT Program Manager.

8. Invoice and Payment

8.1. Invoice Requirements

All invoices submitted to the State must include: (a) date; (b) purchase order/contract number; (c) quantity; (d) description of the Contract Activities; (e) unit price; (f) shipping cost (if any); (g) vendor-generated invoice number; and (h) total price.

8.2. Payment Methods

The State will make payment for Contract Activities Sigma/Vendor Self Service via Electronic Funds Transfer (EFT): [Welcome to CGI Advantage Vendor Self Service Portal: Home \(michigan.gov\)](#).

As required by MCL 18.1283, the Contractor must electronically register with the State.

9. Liquidated Damages

Late or improper completion of the Contract Activities will cause loss and damage to the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, if there is late or improper completion of the Contract Activities the State is entitled to collect liquidated damages in the amount of \$5,000 and an additional \$100 per day for each day Contractor fails to remedy the late or improper completion of the Work.

Unauthorized Removal of Key Personnel will interfere with the timely and proper completion of the Contract, to the loss and damage of the State, and it would be impracticable and extremely difficult to fix the actual damage sustained by the State. Therefore, the State may assess liquidated damages against Contractor as specified below.

- The State is entitled to collect \$1,000 per individual per day for the removal of any Key Personnel without prior approval of the State.
- The State is entitled to collect \$1,000 per individual per day for an unapproved or untrained key personnel replacement.

SCHEDULE B - PRICING

Contract No.: 2400000000126

As Needed Electrical Maintenance, Repair and Emergency Signal Response

Description	Quantity*	Unit of Measure	Unit Cost	Extended Cost
Routine Signal Maintenance	288	Hours	\$175.00	\$50,400.00
Regular hours of work are defined as 6:00 am to 6:00 pm.				
All bids must be F.O.B. Destination with transportation charges prepaid on the order. Other F.O.B. terms will not be accepted and shall disqualify a Bidder from further consideration.				
Total Bid Amount			\$50,400.00	

Description	Quantity*	Unit of Measure	Unit Cost	Extended Cost
Non-Routine Signal Maintenance	75	Hours	\$225.00	\$16,875.00
Non-Routine hours of work are defined as 6 pm to 6 am.				
All bids must be F.O.B. Destination with transportation charges prepaid on the order. Other F.O.B. terms will not be accepted and shall disqualify a Bidder from further consideration.				
Total Bid Amount			\$16,875.00	

Description	Quantity*	Unit of Measure	Unit Cost	Extended Cost
Monthly Fee for On-Call Services (Emergency)	24	Each	\$2,000.00	\$48,000.00
Contractor available 24/7 for emergencies.				
All bids must be F.O.B. Destination with transportation charges prepaid on the order. Other F.O.B. terms will not be accepted and shall disqualify a Bidder from further consideration.				
Total Bid Amount			\$48,000.00	

Additional Required Cost Information (Informational only – not included in bid price)

Description	Quantity*	Unit of Measure	Unit Cost	MDOT Budget Allowance
Misc. Materials and Equipment (Preapproved by Program Manager, plus 5% surcharge to Contractor)	30,000	Each	\$1.00	\$30,000

Routine Signal Maintenance	\$50,400.00
Non-Routine Signal Maintenance	\$16,875.00
Monthly Fee for On-Call Services	\$2,000.00
TOTAL (excludes on call)	\$67,275.00
TOTAL (includes on call and equipment)	\$145,275.00

*Note: All quantities are estimates. Exact quantities are unknown.

Additional Information: Components purchased by the Contractor for emergency repair and miscellaneous materials/equipment shall be reimbursed at cost plus 5% surcharge.

TRAFFIC SIGNAL TIMING RECORD

*Information required by Act 51 of 1951,
as documentation for potential litigation.*

COMPLETE AND RETURN

FILE REF.	LOCATION	
☐ Timing installed as authorized by permit dated.	DATE INSTALLED	
☐ Timing NOT installed as authorized. Copy of corrected permit enclosed. Explanation:		

TIMING PERMIT IN CONTROLLER	INSTALLED BY
-----------------------------	--------------

TRAFFIC SIGNAL TIMING RECORD

*Information required by Act 51 of 1951,
as documentation for potential litigation.*

COMPLETE AND RETURN

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TRAFFIC SIGNAL TIMING RECORD

*Information required by Act 51 of 1951,
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TRAFFIC SIGNAL TIMING RECORD

*Information required by Act 51 of 1951,
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COMPLETE AND RETURN

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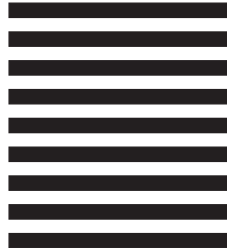
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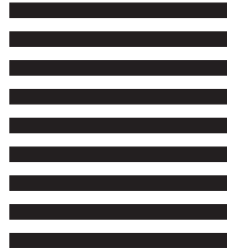
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**ELECTRICAL DEVICES
TROUBLE REPORT**

Michigan Department
of Transportation
0499 (10/00)

Clear Form

PRINT LEGIBLY. This form does not need to be typewritten.

Use reverse for additional REMARKS/DESCRIPTION if necessary.

LOCATION											JOB REPORT NO.			
REPORTED BY:											TIME CALL RECEIVED ☐ A.M. ☐ P.M.		DATE	
TIME ELECTRICIAN NOTIFIED ☐ A.M. ☐ P.M.		TIME ARRIVED ☐ A.M. ☐ P.M.		TIME COMPLETED ☐ A.M. ☐ P.M.		TOTAL TRAVEL TIME		TRUCK NO.		ACCIDENT INVOLVED ☐ YES ☐ NO				
TYPE (☒ One)		TROUBLE		RED OUT	YELLOW OUT	GREEN OUT	NO COLOR	DON'T WALK OUT	WALK OUT	SIGNAL in FLASH	POWER FAILURE	TIMING PROBLEM	SIGNAL LOW	OTHER (NOTE IN REMARKS)
☐ SIGNAL		REPORTED												
☐ FLASHER														
☐ KEEP RIGHT														
☐ O'HEAD LUMIN.		FOUND												
☐ OTHER														
REMARKS														

DESCRIPTION OF WORK PERFORMED

ELECTRICIAN(S) (SIGNATURE)											DATE	
CALL RECEIVED BY:							REPORT APPROVED BY (SIGNATURE)				DATE	

**ELECTRICAL DEVICES
TROUBLE REPORT**

Michigan Department
of Transportation
0499 (10/00)

Clear Form

PRINT LEGIBLY. This form does not need to be typewritten.

Use reverse for additional REMARKS/DESCRIPTION if necessary.

LOCATION											JOB REPORT NO.			
REPORTED BY:											TIME CALL RECEIVED ☐ A.M. ☐ P.M.		DATE	
TIME ELECTRICIAN NOTIFIED ☐ A.M. ☐ P.M.		TIME ARRIVED ☐ A.M. ☐ P.M.		TIME COMPLETED ☐ A.M. ☐ P.M.		TOTAL TRAVEL TIME		TRUCK NO.		ACCIDENT INVOLVED ☐ YES ☐ NO				
TYPE (☒ One)		TROUBLE		RED OUT	YELLOW OUT	GREEN OUT	NO COLOR	DON'T WALK OUT	WALK OUT	SIGNAL in FLASH	POWER FAILURE	TIMING PROBLEM	SIGNAL LOW	OTHER (NOTE IN REMARKS)
☐ SIGNAL		REPORTED												
☐ FLASHER														
☐ KEEP RIGHT														
☐ O'HEAD LUMIN.		FOUND												
☐ OTHER														
REMARKS														

DESCRIPTION OF WORK PERFORMED

ELECTRICIAN(S) (SIGNATURE)											DATE	
CALL RECEIVED BY:							REPORT APPROVED BY (SIGNATURE)				DATE	

DIVISION	WORK ORDER NO.	REFERENCE NO.	REGION	COUNTY
MUNICIPALITY	REQUESTED BY:	INTERSECTION OF:		
DATE JOB STARTED	DATE JOB FINISHED	IN SERVICE	APPLICATION	

DESCRIPTION OF ARTICLES OR SERVICES RENDERED

[illegible]

SIGN AND SIGNAL SUPERVISOR APPROVAL

DATE _____

[illegible]

REPORT OF DEPARTMENT PROPERTY DAMAGEDISTRIBUTION:
REGION MAINT. ENGR.
YOUR FILES

Information required by Act 17, P.A. of 1925.

Failure to supply this information will result in non-payment for service.

ACCIDENT/INCIDENT REPORT NUMBER	OWNER/DRIVER	ACCIDENT DATE
TRUNKLINE NUMBER	POLICING AGENCY	
AGENCY MAKING REPAIRS (List all agencies involved)	CONTACT PERSON	AGENCY PHONE NO.

WORK COMPLETED, CHECK APPROPRIATE BOX:

☐ Repair guardrail, Total guardrail length _____ ft	☐ Repair sign	☐ Other repair _____
☐ Replacement of entire guardrail system	☐ Total sign replacement	☐ Other total replacement _____

CHECK APPROPRIATE BOX:	☐ Repairs/replacement to damage caused by the above accident have been completed. The cost is itemized below.	☐ Below is an estimated cost of damage caused by the accident above.	☐ Estimate previously reported.
------------------------	--	---	--

Labor	INSTALLER BY SHOP IDENTIFIER NUMBER	DATES WORKED	HOURS	RATE	DIRECT LABOR CHARGES
	Additional Page			DIRECT LABOR COST TOTAL	
Equipment	NUMBER OR DESCRIPTION	DATES WORKED	HOURS	RATE	DIRECT EQUIP. CHARGES
	Additional Page			DIRECT EQUIPMENT COST TOTAL	
Materials	ITEM DESCRIPTION	UNIT	COST/UNIT	DIRECT MATERIAL CHARGES	
	Additional Page			DIRECT MATERIAL COST TOTAL	
TOTAL DIRECT COSTS					

INDIRECT COSTS

LABOR ADDITIVE (fringe) %	% x	DIRECT LABOR COST TOTAL	=	
MATERIAL HANDLING %	% x	DIRECT MATERIAL COST TOTAL	=	
OVERHEAD %	% x	TOTAL DIRECT COSTS	=	
TOTAL INDIRECT COSTS				
TOTAL COST (TOTAL DIRECT COSTS + TOTAL INDIRECT COSTS)				

TO BE FILLED OUT BY ARU ONLY

SIGNATURE	LESS DEPRECIATION (On Replacement Cost Only)	\$
TITLE	MAIN OFFICE CHARGE	\$
DATE	GRAND TOTAL	\$

ACCIDENT/INCIDENT REPORT NUMBER	OWNER/DRIVER	ACCIDENT DATE
DESCRIPTION OF ARTICLES OR SERVICE RENDERED		

Labor	INSTALLER BY SHOP IDENTIFIER NUMBER	DATES WORKED	HOURS	RATE	DIRECT LABOR CHARGES
	Return to First Page			ENTER TOTAL ON PAGE ONE	
Equipment	NUMBER OR DESCRIPTION	DATES WORKED	HOURS	RATE	DIRECT EQUIP. CHARGES
Return to First Page			ENTER TOTAL ON PAGE ONE		

ACCIDENT/INCIDENT REPORT NUMBER	OWNER/DRIVER	ACCIDENT DATE
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[illegible]

Reference Guide for completing Michigan Department of Transportation Report of Department Property Damage Form 443

- The calculations are automatic when the form is completed on line.
- Make sure you sign the form and include your title and the date.
- A new section has been added which is to be completed by MDOT's Accounts Receivable Unit.

ACCIDENT/INCIDENT REPORT NUMBER - Can be found in the upper right corner of the Traffic Crash Report.

OWNER/DRIVER – Can be found in the center of the Traffic Crash Report.

ACCIDENT DATE - Can be found in the upper left corner of the Traffic Crash Report.

TRUNKLINE NUMBER - Can be found in the center of the Traffic Crash Report.

POLICING AGENCY - Can be found in the top middle of the Traffic Crash Report.

AGENCY MAKING REPAIRS - The garage or the County Road Commission making the repairs.

CONTACT PERSON - Supervisor overseeing trunkline repairs that can answer any questions regarding the items that were filled out on form 443.

AGENCY PHONE NUMBER - The garage phone number or county road commission phone number where the contact person can be reached.

WORK COMPLETED, CHECK APPROPRIATE BOX

-Repair Guardrail – a guardrail is repaired when less than the whole guardrail is being replaced. (Example: Only one tri-beam rail used)

- If this is a guardrail repair, what is the total length of the entire guardrail from end to end, including, the part that was repaired.

-Replacement of entire Guardrail – a guardrail is replaced when the whole guardrail is taken down from end to end and replaced with all new guardrail.

-Repair Sign – a sign is repaired when only a portion has to be replaced (Example: The post is replaced but the original sign is reinstalled).

-Total sign Replacement – a sign is replaced when the sign itself is taken down and replaced with a new sign (Example: The post(s), sign, nuts and bolts are totally replaced).

-Other Repair – Would include repairs to traffic signals, bridges, driveways, traffic control, clean-up cost, etc., but would not include signs or guardrails.

-Other total Replacement – Would include total replacement of traffic signals, bridges, etc., but would not include signs or guardrails.

Check Appropriate Box: Check only one box.

Repairs/replacement to damage caused by the above accident have been *completed*. The cost is itemized below.

Or

Below is an *estimated* cost of damage caused by the accident above.

Or

Estimate previously reported.

Labor

INSTALLER BY SHOP IDENTIFIER - Employee number, Installers initials, or TMW number as long as the information on the 443 form can be identified to a specific individual. This will reduce the number of harassing phone calls to these individuals.

DATES WORKED - These would be all the dates you were at this site.

HOURS - This would be the hours you were at the site.

RATE - This is the hourly rate including benefits.

DIRECT LABOR CHARGES - Hours worked multiplied by rate equals direct labor charges.

DIRECT LABOR COST TOTAL – Total of all direct labor charges.

Equipment

NUMBER OR DESCRIPTION - Equipment number or description.

DATES WORKED - The date the equipment was at the job site.

HOURS - Hours worked on site.

RATE - Equipment rental rate which is recalculated annually.

DIRECT EQUIPMENT CHARGE - Hours multiplied by rate equals direct equipment charges.

DIRECT EQUIPMENT COST TOTAL – Total of all direct equipment charges.

Materials

ITEM DESCRIPTION - Description if the item(s) used for the repair or replacement.

UNIT - The number of units used on this particular job.

COST/UNIT - Cost of one unit.

DIRECT MATERIAL CHARGES - Units multiplied by cost per unit equals direct material charges.

DIRECT MATERIAL COST TOTAL – Total of all direct material charges.

TOTAL DIRECT COST- Add direct labor charges plus direct equipment charges plus direct material charges equals total direct cost.

Indirect Costs

LABOR ADDITIVE - Multiply Labor Additive rate by direct labor charges.

* County Road Commission - refer to State Trunkline Maintenance Contract.

MATERIAL HANDLING - Multiply material handling charge percentage times total direct material charges to equal the indirect material charges.

*MDOT repair facilities do not charge a handling fee. Only County Road Commissions have handling charges as established in contract agreement.

OVERHEAD – Multiply overhead rate by the direct costs.

*For County Road Commission, the overhead rate is set by the county according to a formula in the State Trunkline Maintenance Contract.

TOTAL INDIRECT COST - Total of indirect labor charges plus indirect material charges plus indirect cost for overhead

TOTAL COST TO REPAIR/REPLACE -Total of the direct charges plus the total indirect charges.

**Additional pages can be added to include more space for Labor, Equipment and Materials and a description of articles or service rendered. See additional pages online.

SIGNATURE – Individual completing form.

TITLE – Job title of individual completing form.

Michigan Department
of Transportation
1531 (11/02)

ELECTRICAL DEVICES INSTALLATION COMPLETION DATE

Information required by MDOT to complete billing process

COMPLETE AND RETURN

REGION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

FILE REF.	W.O. NO.
-----------	----------

LOCATION

WORK TO BE PERFORMED BY

COMPLETION DATE	CIRCUIT NO.
-----------------	-------------

CABLE NO.	PAIR NO.
-----------	----------

WATTAGE CHANGE ☐ Yes ☐ No	UTILITY ☐ Detroit Edition ☐ Consumer Energy ☐ Other
--	---

SIGNATURE	TITLE	DATE
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Michigan Department
of Transportation
1531 (11/02)

ELECTRICAL DEVICES INSTALLATION COMPLETION DATE

Information required by MDOT to complete billing process

COMPLETE AND RETURN

REGION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

FILE REF.	W.O. NO.
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LOCATION

WORK TO BE PERFORMED BY

COMPLETION DATE	CIRCUIT NO.
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WATTAGE CHANGE ☐ Yes ☐ No	UTILITY ☐ Detroit Edition ☐ Consumer Energy ☐ Other
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SIGNATURE	TITLE	DATE
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Michigan Department
of Transportation
1531 (11/02)

ELECTRICAL DEVICES INSTALLATION COMPLETION DATE

Information required by MDOT to complete billing process

COMPLETE AND RETURN

REGION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

FILE REF.	W.O. NO.
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SIGNATURE	TITLE	DATE
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Michigan Department
of Transportation
1531 (11/02)

ELECTRICAL DEVICES INSTALLATION COMPLETION DATE

Information required by MDOT to complete billing process

COMPLETE AND RETURN

REGION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

FILE REF.	W.O. NO.
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LOCATION

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COMPLETION DATE	CIRCUIT NO.
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CABLE NO.	PAIR NO.
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WATTAGE CHANGE ☐ Yes ☐ No	UTILITY ☐ Detroit Edition ☐ Consumer Energy ☐ Other
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SIGNATURE	TITLE	DATE
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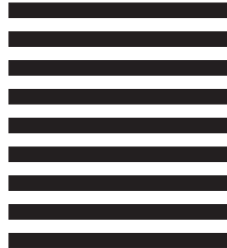
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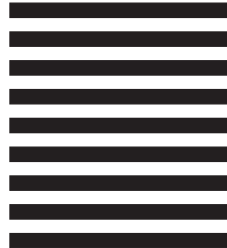
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Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
1	4050	M13,M21 (SHERIDAN) @ LENNON RD	Flashing Beacon
2	3976	M13 (EUCLID) @ I75BL,M25 (JENNY) WB	Traffic Signal
3	4490	M58 (STATE) @ MACKINAW ST	Traffic Signal
4	4415	M84 (BAY) @ SCHUST RD	Traffic Signal
5	4074	I69 WB OFF RAMP @ BRISTOL RD	Traffic Signal
6	4285	US127BR (MISSION) @ BROOMFIELD RD	Traffic Signal
7	4241	US27BR (SUPERIOR) @ 180' E OF REPUBLIC AVE	Warning Sign Beacon
8	4302	M20 (REMUS) @ 1260' W OF LINCOLN RD	Warning Sign Beacon
9	4558	M46, M19 (SANILAC) @ M19 (S ELK)	Traffic Signal
10	3993	M25 (THOMAS) EB @ WENONA	Traffic Signal
11	4457	M46 (WILLIAMS) WB @ M46 (GRATIOT)	Traffic Signal
12	4382	M30 @ 520' N OF MOORE (FLOCK RD - FIRE STATION)	Emergency Vehicle Sign Beacon
13	4252	M46 (SAGINAW) @ EATON ST	Traffic Signal
14	4525	M54,M83 (BIRCH RUN RD) @ DIXIE HWY	Traffic Signal
15	4586	M81 @ 560' NE OF MOBILE MEDICAL RESPONSE	Emergency Vehicle Sign Beacon
16	4165	M15 SB (STATE) 1000' N OF DODGE RD	Warning Sign Beacon
17	4189	I475 NB OFF RAMP @ EB DAVISON	Traffic Signal
18	4097	M54 (DORT) @ COLDWATER RD	Traffic Signal
19	4121	M21 (COURT) @ MILLER RD	Traffic Signal
20	4108	M21 (CORUNNA) @ SEYMOUR RD	Traffic Signal
21	4016	M84 (LAFAYETTE) @ M84 (GARFIELD)	Traffic Signal
22	4040	US127BR (MCEWAN) @ SCHOOLCREST AVE	Traffic Signal
23	3966	M13 (BROADWAY) @ MCGRAW AVE	Traffic Signal
24	4480	M58 (DAVENPORT) WB @ M58 (HILL)	Traffic Signal
25	4405	M52 (GRAHAM) @ 1220' N OF SWAN CREEK RD	Warning Sign Beacon
26	4275	M53,M142 @ BUSCHLEN ST	Traffic Signal
27	4231	US127BR (PINE RIVER) @ 400' N OF ARCADEA	School CrossWalk Sign Beacon
28	4548	M90 (MAIN) @ 300' E OF JOHN ST	School CrossWalk Sign Beacon
29	4447	M46 (GRATIOT) @ MEIJERS E DR	Traffic Signal
30	4372	US10BR,M20 (LYONS) @ WASHINGTON	Traffic Signal
31	4515	M-81 (WASHINGTON) @ 130' W OF REESE RD	School Speed Limit Sign
32	4212	M18,M61 (CEDAR) @ M18 (SILVERLEAF)	Traffic Signal
33	4575	M46 @ M15 (RICHVILLE)	Flashing Beacon
34	4155	M15 (STATE) @ LIPPINCOTT BLVD	Traffic Signal
35	3989	M13 (HURON) @ CODY ESTEY RD	Traffic Signal
36	4503	M58 (STATE) EB @ COURT & WARWICK ST	Traffic Signal
37	4179	M57 (VIENNA RD) @ LEWIS RD	Flashing Beacon
38	4428	M-57 (VIENNA) @ 2250' E of M-13 (SHERIDAN)	Warning Sign Beacon

Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
39	4520	M13 (WASHINGTON) @ M81 (VET MEMORIAL PKWY)	Flashing Beacon
40	4581	M-24 (SANILAC) @ 1720' W OF M-46 (MERTZ)	Warning Sign Beacon
41	4160	M15 (STATE) @ FLINT ST	Traffic Signal
42	4508	M81 (WASHINGTON) @ PORTSMOUTH RD	Flashing Beacon
43	4184	I75 NB OFF RAMP @ HOLLY RD	Traffic Signal
44	4433	M13 (S WASHINGTON) @ WEBBER ST	Traffic Signal
45	4092	M54 (DORT) @ PIERSON RD	Traffic Signal
46	4116	M-21 (CORUNNA) @ GENESEE VALLEY TRAIL	Pedestrian Hybrid Beacon (HAWK)
47	4338	M53 (VAN DYKE) @ TUBSPRINGS RD	Traffic Signal
48	4320	M24 (LAPEER) @ EAST & BALDWIN	Traffic Signal
49	4103	M54 (SAGINAW RD) @ WILSON RD	Flashing Beacon
50	4011	M25 (CENTER) @ PINE ST	Traffic Signal
51	4035	M115 (MAIN) @ HALL ST	Flashing Beacon
		M84 (SAGINAW) @ 400' SW OF ZIEGLER (ST PAUL LUTHERAN SCHOOL)	
52	3961		School CrossWalk Sign Beacon
53	4475	M46 (HOLLAND) @ DELPHI PLANT 4 GATE 3	Traffic Signal
54	4400	M57 (PEET) @ LINCOLN RD	Flashing Beacon
55	4270	M53 (HURON) @ 270' W OF WESTERN AVE	School Speed Limit Sign
56	4226	M46 (WASHINGTON) @ MILL & MICHIGAN	Traffic Signal
57	4287	US127BR (MISSION) @ PRESTON RD	Traffic Signal
58	4543	M-46 (SANILAC) @ 1440' E of M-53 (VAN DYKE)	Warning Sign Beacon
59	4442	M46 (GRATIOT) @ 1020' E OF STEEL RD	Warning Sign Beacon
60	4367	US10BR,M20 (BUTTLES) @ GEORGE ST	Traffic Signal
61	4207	M18 @ 70' S OF TONKIN (BEAVERTON SCHOOLS)	School CrossWalk Sign Beacon
62	4570	M15 (HURON) @ MAIN ST	Traffic Signal
63	4058	US23 SB OFF RAMP @ OWEN RD	Traffic Signal
64	3984	M13 (HURON) @ GROVE ST	Traffic Signal
65	4498	M47 (MIDLAND) @ TITTABAWASSEE RD	Traffic Signal
66	4423	M-13 (ALBEE) @ 660' N of Verne Rd	Emergency Vehicle Sign Beacon
67	4082	M54 (DORT) @ LIPPINCOTT BLVD	Traffic Signal
68	4249	US27BR (ALGER) @ M46 (MONROE)	Traffic Signal
69	4328	M24 (LAPEER) @ 1350' S OF BURNSIDE RD	Warning Sign Beacon
70	4310	M20 (PICKARD) @ LEATON RD	Traffic Signal
71	4001	M25,I75BL (7TH) WB @ SAGINAW ST	Traffic Signal
72	4465	M46 (RUST) @ OWEN AVE	Traffic Signal
73	4390	US10BR (EASTMAN) @ ST ANDREWS RD	Traffic Signal
74	4260	M25 (BECK) @ 520' N OF SHARPSTEEN ST	School CrossWalk Sign Beacon
75	4216	M30 @ 300' SW OF INDIAN LAKE RD	Emergency Vehicle Sign Beacon

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
76	4087	M54 (DORT) @ WESTERN,OKLAHOMA AVE		Traffic Signal
77	4111	M21 (CORUNNA) @ DYE RD		Traffic Signal
78	4333	M53 (MAIN) @ CENTENNIAL BLVD		Traffic Signal
79	4315	M24 (LAPEER) @ 700' N OF BRAUER RD		Keep Right Sign
80	4006	M25 (CENTER) @ JOHNSON ST		Traffic Signal
81	4030	M13 CONN NB OFF RAMP @ WILDER,MONITOR		Traffic Signal
82	3956	US23 @ MAIN ST (AU GRES)		Flashing Beacon
83	4470	M46 (REMINGTON) WB @ GENESEE AVE		Traffic Signal
84	4395	M-57 (BRADY) @ 4700' W OF CHESANING BRADY FIRE STATION		Emergency Vehicle Sign Beacon
85	4265	M142 (PIGEON) @ 530' E OF PINNEBOG RD		Warning Sign Beacon
86	4221	M30 SB @ 1300' N of M61		Warning Sign Beacon
87	4599	M81 (MAIN) @ 400' E OF ALE ST		School CrossWalk Sign Beacon
88	4437	M13 (WASHINGTON) @ REMINGTON ST		Traffic Signal
89	4362	US10BR,M20 (BUTTLES) @ ASHMAN ST		Traffic Signal
90	4202	I475 SB SERVICE RD @ M21 (COURT) WB		Traffic Signal
91	4134	M21 (5TH) EB @ STEVENS ST		Traffic Signal
92	4356	M20 (ISABELLA) @ HOMER RD		Traffic Signal
93	4145	I69 S.D. (8TH) @ GRAND TRAVERSE		Traffic Signal
94	4053	US23 NB OFF RAMP @ HILL RD		Traffic Signal
95	3979	M13 (EUCLID) @ KIESEL RD		Traffic Signal
96	4418	M84 (BAY) AT WAL-MART/SAMS CLUB DR		Traffic Signal
97	4077	M54 (DORT) @ MAPLE AVE		Traffic Signal
98	4244	US27BR (SUPERIOR) @ PINE ST		Traffic Signal
99	4305	M20 (HIGH) @ S WASHINGTON ST SB		Traffic Signal
100	4561	M46 (CHANDLER) @ 560' E OF CARSONVILLE ELEMENTARY SCHOOL		School CrossWalk Sign Beacon
101	3996	M25 (JENNY) WB @ HENRY ST		Traffic Signal
102	4460	M46 (STEPHENS) EB @ HAMILTON		Flashing Beacon
103	4385	US-10 EB OFF/ON RAMP @ WACKERLY ROAD		Traffic Signal
104	4255	M46 (MONROE) @ WHEELER RD		Flashing Beacon
105	4528	M83 (MAIN) @ RIVER ST / COVERED BRIDGE LN		Traffic Signal
106	4589	M81 @ 500' SW OF WASHINGTON (FIRE STATION)		Emergency Vehicle Sign Beacon
107	4168	M57 (VIENNA RD) @ SEYMOUR RD		Traffic Signal
108	4100	M54 (DORT) @ FRANCES RD		Flashing Beacon
109	4533	M83 (MAIN) @ BAVARIAN MALL		Traffic Signal
110	4594	M81 (E CARO RD) @ DECKERVILLE RD		Flashing Beacon
111	4173	M57 (VIENNA RD) @ JENNINGS RD		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
112	4197	I475 NB SERVICE RD @ M121 (BRISTOL)		Traffic Signal
113	4129	M21 (COURT) WB @ BEACH ST		Traffic Signal
114	4351	M20 (ISABELLA) @ 1400' W OF COLEMAN RD		Warning Sign Beacon
115	4024	US10 WB OFF RAMP @ 9 MILE RD		Flashing Beacon
116	4140	I69 EB OFF RAMP @ IRISH RD		Traffic Signal
117	4048	M61 (MAIN) EB @ 100' W OF WESTLAWN		School Speed Limit Sign
118	3974	M13 (EUCLID) @ IONIA ST & FAIRWAY DR		Traffic Signal
119	4488	M58 (DAVENPORT) WB @ COURT & WARWICK		Traffic Signal
120	4413	M84 (BAY) @ ENTERPRISE DR		Traffic Signal
121	4072	I-75 SB OFF RAMP @ MT MORRIS ROAD		Traffic Signal
122	4300	M20 (REMUS) @ 1030' W OF WINN RD		Warning Sign Beacon
123	3991	I75BL,M25 EB @ 40' W of 2 Mi Rd		Warning Sign Beacon
124	4455	M46 (GRATIOT) @ FIRE STATION 70' W of Woodbridge St		Emergency Traffic Signal (E1)
125	4380	M30 @ 500' N OF MERIDIAN SCHOOLS		School Speed Limit Sign
126	4250	M46 @ LUMBERJACK		Flashing Beacon
127	4523	I75,US23 NB OFF RAMP @ DIXIE HWY		Traffic Signal
128	4584	M24 (ELLINGTON ST,MERTZ) @ FRANK ST		Traffic Signal
129	4163	M15 (STATE) @ DODGE RD		Traffic Signal
130	4187	I475 NB SERVICE RD @ M54 (DORT) SB		Traffic Signal
131	4095	M54 (DORT) @ ASN MARTIN DR		Warning Sign Beacon
132	4119	M21 (COURT) @ M21 (CORUNNA) & PERSHING		Traffic Signal
133	4341	M53 (CEDAR) @ NEWARK RD		Traffic Signal
134	4323	M24 (MAIN) @ OREGON ST		Traffic Signal
135	4106	M54 (DORT) @ FISHER BODY,GIBSON		Traffic Signal
136	4014	M25 (CENTER) @ KNIGHT RD		Flashing Beacon
137	4038	US10,US127BR (MCEWAN) @ 400' S OF WHEATON		School CrossWalk Sign Beacon
138	3964	M247 (EUCLID) @ OLD KAWKAWLIN RD		Traffic Signal
139	4478	M58 (DAVENPORT) WB @ I675 NB OFF RAMP		Traffic Signal
140	4403	M52 (BELLE) @ M52 (SAGINAW)		Traffic Signal
141	4273	M53,M142 (PORT CRESCENT) @ 320' S OF IRWIN ST		School CrossWalk Sign Beacon
142	4229	US127BR (CENTER) @ US127BR (MAIN)		Flashing Beacon
143	4290	US127BR,M20 (MISSION) @ BROADWAY		Traffic Signal
144	4546	M53 (VAN DYKE) @ 1580' N OF M46 (SANILAC)		Warning Sign Beacon
145	4124	M21 (5TH) EB @ ANN ARBOR ST		Traffic Signal
146	4346	M-53 @ 660' N OF SHAW RD		Emergency Vehicle Sign Beacon
147	4019	M84 (WASHINGTON) @ M25,I75BL (7TH)		Traffic Signal
148	4043	US127BR (CLARE) @ COLONVILLE (N JCT)		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
		M-13(LAFAYETTE / SALZBURG) @ LAFAYETTE		
149	3969	BRIDGE(ITS CAMERA)		ITS
150	4483	M58 (DAVENPORT) @ MASON		Traffic Signal
151	4408	M47 (MIDLAND) @ M58 (STATE)		Traffic Signal
152	4067	I75 NB OFF RAMP @ MT MORRIS RD		Traffic Signal
153	4278	M19 (WASHINGTON) @ 620' S OF AGNES ST		School CrossWalk Sign Beacon
154	4234	US127BR (MAIN) @ 300' N OF STATE ST		School Speed Limit Sign
155	4295	US127 SB OFF RAMPS @ M20 (PICKARD)		Traffic Signal
156	4551	M90 (MAIN) @ 550' W OF MAPLE VALLEY		Emergency Vehicle Sign Beacon
157	4450	M46 (GRATIOT) @ FROST		Traffic Signal
158	4375	US10BR,M20 (INDIAN) @ ASHMAN ST		Traffic Signal
159	4518	M13 (WASHINGTON) @ 6TH ST		Flashing Beacon
160	4579	M24 (MERTZ) @ M46 (SANILAC)		Traffic Signal
161	4158	M15 (STATE) @ CYPRESS		Traffic Signal
162	4506	M81 @ 370' E OF COMMERCE DR		Warning Sign Beacon
163	4182	M-57(VIENNA) AT BELSAY RD		Flashing Beacon
164	4431	M13 (WASHINGTON) @ HESS AVE		Traffic Signal
165	4090	M54 (DORT) @ FRANKLIN AVE		Traffic Signal
166	4114	M21 (CORUNNA) @ DUTCHER RD		Traffic Signal
167	4336	M53 (MAIN) @ 340' S OF M53 (VAN DYKE)		Warning Sign Beacon
168	4318	M-24 SB @ 1450' N of Pratt Rd		Warning Sign Beacon
169	4009	M25 (CENTER) @ LIVINGSTON AVE		Traffic Signal
170	4033	US10 @ 1600' NE OF W LUDINGTON DR		Keep Right Sign
171	3959	M84 (SAGINAW) @ DELTA & 3 MILE RDS		Traffic Signal
172	4473	M46 (HOLLAND) @ CUMBERLAND ST		Traffic Signal
173	4398	M57 (Main) @ 480' N of Corunna Rd		Warning Sign Beacon
174	4224	US127 @ 2800' N of RR XING		Warning Sign Beacon
175	4541	M53 (MAIN) @ MARLETTE ST		Traffic Signal
176	4440	M46 (GRATIOT) @ MERIDIAN RD		Flashing Beacon
177	4365	US10BR,M20 (BUTTLES) @ CRONKRIGHT		Traffic Signal
178	4205	M-18 @ 500' S OF Broka Dr, Beaverton Area Fire Department		Emergency Vehicle Sign Beacon
179	4568	M15 (STATE) @ MAIN ST		Traffic Signal
180	4137	I69 WB OFF RAMP @ M54 (DORT)		Traffic Signal
		M20 (JEROME) EB @ 160' SW OF TITABAWASSEE		
181	4359	RIVER		Warning Sign Beacon
182	4445	M46 (GRATIOT) @ M52 (GRAHAM)		Traffic Signal
183	4370	US10BR,M20 (LYONS) EB @ BAYLISS		Traffic Signal

Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
184	4513	M15 (VASSAR) @ 1700' S of M81 (WASHINGTON)	Warning Sign Beacon
185	4210	M18 @ M61 (W JCT)	Traffic Signal
186	4573	M15 @ 480' SE OF CENTER ST	School Speed Limit Sign
187	4153	M15 (STATE) @ E HEGEL ST,ERIE STS	Traffic Signal
188	4061	I75,US23 SB OFF RAMP @ MILLER RD	Traffic Signal
189	3987	M13 (HURON) @ LINWOOD RD	Traffic Signal
190	4501	M58 (STATE) EB @ M58 (HILL)	Traffic Signal
191	4177	M57 (VIENNA RD) @ PLAZA DR	Traffic Signal
192	4426	M13 (SHERIDAN) @ M57 (VIENNA)	Flashing Beacon
193	4085	M54 (DORT) @ ROBERT T LONGWAY BLVD	Traffic Signal
194	4109	M21 (CORUNNA) @ MORRISH RD	Traffic Signal
195	4331	M24 (LAPEER) @ M90 & OTTER LAKE RD	Traffic Signal
196	4004	M25 (MADISON) @ M25 (CENTER)	Traffic Signal
197	4028	US10 EB OFF RAMP AT GARFIELD RD	Flashing Beacon
198	3954	US23 @ COURT AVE	Traffic Signal
199	4468	M46 (REMINGTON) @ M46 (SHERIDAN)	Traffic Signal
200	4263	M142 (WHALEN,MILL) @ MAIN ST	Flashing Beacon
201	4219	M61 EB @ 1660' W of M30	Warning Sign Beacon
202	4536	I75 NB OFF RAMP @ M54,M83 (BIRCH RUN RD)	Traffic Signal
203	4597	M81 (MAIN) @ 310' W OF SHERMAN ST	Emergency Vehicle Sign Beacon
204	4200	I475 SB OFF RAMP @ HILL RD	Traffic Signal
205	4132	M21 (5TH) @ SAGINAW	Traffic Signal
206	4354	M20 (ISABELLA) @ 1350' W OF MERIDIAN RD	Warning Sign Beacon
207	4027	US10 WB OFF RAMP AT GARFIELD RD	Flashing Beacon
208	4143	I69,M21 WB OFF RAMP @ HAMMERBERG RD	Traffic Signal
209	4051	M13 (SHERIDAN) @ M21,M56 (CORUNNA)	Traffic Signal
210	3977	M13 (EUCLID) @ MIDLAND RD	Traffic Signal
211	4491	M58 (STATE) @ HEMMETER RD	Traffic Signal
212	4416	M84 (BAY) @ FASHION SQUARE MALL DR	Traffic Signal
213	4075	I-69 WB OFF-RAMP @ MORRISH RD.	Traffic Signal
214	4286	US127BR (MISSION) @ APPIAN WAY	Illuminated Crosswalk Sign
215	4242	US27BR (SUPERIOR) @ 180' W OF REPUBLIC AVE	Warning Sign Beacon
216	4303	M20 (REMUS) @ BRADLEY ST	Traffic Signal
217	4559	M46 (CHANDLER) @ MAIN ST	Flashing Beacon
218	3994	M25 (JENNY) WB @ WENONA	Traffic Signal
219	3949	M13 @ WORTH RD	Flashing Beacon
220	4148	I69 S.D. (8TH) WB @ BEACH ST	Traffic Signal
221	4056	US23 SB OFF RAMP @ GRAND BLANC RD	Traffic Signal

Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
222	3982	M13 (HURON) @ TWO MILE RD	Flashing Beacon
223	4496	M47 (MIDLAND) @ HOSPITAL RD	Traffic Signal
224	4421	M84 (BAY) @ SAGINAW VALLEY UNIVERSITY DR	Traffic Signal
225	4080	M54 (DORT) @ ATHERTON RD	Traffic Signal
226	4247	US27BR (WRIGHT) @ HEATHER LN,KMART DR	Traffic Signal
227	4326	M24 (LAPEER) @ COLUMBIAVILLE RD	Flashing Beacon
228	4308	M20 (PICKARD) @ BROWN ST,MEIJER'S DR	Traffic Signal
229	4564	M25 @ CEDAR	Flashing Beacon
230	3950	US23 (MAIN) @ M61 (CEDAR)	Traffic Signal
231	4463	M46 (RUST) @ FORDNEY ST	Traffic Signal
232	4388	US10BR (EASTMAN) @ SAGINAW RD	Traffic Signal
233	4258	M25 (BECK) @ BAY & SEBEWAING RDS	Traffic Signal
234	4214	M-61 @ 620' W OF INDUSTRIAL DR	Emergency Vehicle Sign Beacon
235	4531	M83 (MAIN) @ TUSCOLA ST	Traffic Signal
236	4592	M81 (STATE) @ BURNSIDE ST	Traffic Signal
237	4171	M57 (VIENNA RD) @ LINDEN RD	Traffic Signal
238	4127	M21 (COURT) WB @ CHURCH ST	Traffic Signal
239	4349	M-53,M-90(VAN DYKE) AT M-90/NORTH BRANCH	Flashing Beacon
240	4022	M15 (TUSCOLA) @ COLUMBUS AVE	Traffic Signal
241	4046	M-61 @ 400' W OF WESTLAWN	Warning Sign Beacon
242	3972	I75BL,M13,M84 (SALSBURG) @ WENONA AVE	Traffic Signal
243	4486	M58 (DAVENPORT) WB @ N CAROLINA	Traffic Signal
244	4411	M84 (BAY) @ WEISS ST	Traffic Signal
245	4070	I75,US23 NB OFF RAMP @ M21 (CORUNNA)	Traffic Signal
246	4237	M57 @ 420' E OF ELY HWY (FULTON SCHOOLS)	School Speed Limit Sign
247	4298	M20 (REMUS) @ WINN RD	Traffic Signal
248	4554	M19 (UBLY) @ ARGYLE RD	Flashing Beacon
249	4453	M46 (GRATIOT) @ WHEELER ST	Traffic Signal
250	4378	M30 @ 710' N OF JEROME TWP FIRE STATION NO 2	Emergency Vehicle Sign Beacon
251	4521	I675 NB OFF RAMP @ TITABAWASSEE RD	Traffic Signal
252	4582	M24 (MERTZ) @ 1290' S OF M46 (SANILAC)	Warning Sign Beacon
253	4458	M46 (STEPHENS) EB @ MICHIGAN	Traffic Signal
254	4383	US10 WB RAMPS @ US10BR (EASTMAN)	Traffic Signal
255	4253	M-46 AT 480' E OF Fire Station	Emergency Vehicle Sign Beacon
256	4526	M54,M83 (BIRCH RUN) @ M54 (GERA)	Traffic Signal
257	4587	M81 @ 490' SW OF MOBILE MEDICAL RESPONSE	Emergency Vehicle Sign Beacon
258	4166	M15 (STATE) @ MAIN ST	Traffic Signal
259	4190	I475 NB OFF RAMP @ STEWART,DORT	Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
260	4098	M54 (DORT) @ STANLEY RD		Traffic Signal
261	4122	M21 (COURT) @ ASYLUM ST		Flashing Beacon
262	4344	M53 @ Old M21		Traffic Signal
263	4017	M84 (WASHINGTON) @ COLUMBUS AVE		Traffic Signal
264	4041	US127BR,M61 (FIRST) @ M61 (MAIN)		Traffic Signal
265	3967	M13 (BROADWAY) @ CASS AVE		Traffic Signal
266	4481	M58 (DAVENPORT) WB @ STONE ST		Traffic Signal
267	4406	M52 (GRAHAM) @ 1230' S OF SWAN CREEK RD		Warning Sign Beacon
268	4065	I75,US23 SB TO I69 EB CURVE		Warning Sign Beacon
269	4276	M53 (VAN DYKE) @ M142 (PIGEON),LEARMAND		Traffic Signal
270	4232	US127BR (STATE) @ 30' N OF US127BR (LINCOLN)		Flashing Beacon
271	4549	M90 (MAIN) @ 350' W OF JOHN ST		School CrossWalk Sign Beacon
272	4448	M46 (GRATIOT) @ MILLER RD		Traffic Signal
273	4373	US10BR, M20 WB @ 1970' E OF SAGINAW RD		Warning Sign Beacon
274	4516	M13 (WASHINGTON) @ GENESEE AVE		Traffic Signal
275	4576	M46 (SANILAC) @ VASSAR RD		Flashing Beacon
276	4156	M15 NB @ S OF I69		Keep Right Sign
277	3990	US10 EB @ 590' W of 3 Mi Rd		Warning Sign Beacon
278	4504	M47 SB @ MIDLAND RD		Flashing Beacon
279	4180	M57 (VIENNA) @ BRAY RD		Flashing Beacon
280	4429	M-57 (Peet Rd) @ 2040' W of M-13 (SHERIDAN)		Warning Sign Beacon
281	4088	M54 (DORT) @ LEITH ST		Traffic Signal
282	4112	M21 (CORUNNA) @ LINDEN RD		Traffic Signal
283	4334	M53 (MAIN) @ 430' N OF CENTENNIAL BLVD		Warning Sign Beacon
284	4316	M24 (LAPEER) @ DRYDEN RD		Traffic Signal
285	4007	M25 (CENTER0 @ M15 (TRUMBLE)		Traffic Signal
286	4031	M115 @ LAKE STATION AVE		Flashing Beacon
287	3957	M65 (HALE) @ US23 (HURON)		Traffic Signal
288	4471	M46 (HOLLAND) EB @ GENESEE AVE		Traffic Signal
289	4396	M57 (BROAD) @ FRONT ST		Traffic Signal
290	4161	M15 (STATE) @ RICHFIELD RD		Traffic Signal
291	4509	M81 (WASHINGTON) @ M15 (VASSAR)		Flashing Beacon
292	4185	I75 SB OFF RAMP @ HOLLY RD		Traffic Signal
293	4434	M13 (WASHINGTON) @ M46 (RUST)		Traffic Signal
294	4093	M54 (DORT) @ WEBSTER RD		Traffic Signal
295	4117	M21 (CORUNNA) @ BALLENGER HWY		Traffic Signal
296	4339	M53 (VAN DYKE) @ DRYDEN RD		Traffic Signal
297	4321	M24 (MAIN) @ DEMILLE RD		Traffic Signal

Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
298	4104	M54 (SAGINAW) @ M54 (CLIO RD)	Traffic Signal
299	4012	M25 (CENTER) @ 600' E OF WAGNER RD	Emergency Vehicle Sign Beacon
300	4036	US127BR (MCEWAN) @ 4TH ST	Traffic Signal
301	3962	M84 (SAGINAW) @ 300' NE OF ZIEGLER (ST PAUL LUTHERAN SCHOOL)	School CrossWalk Sign Beacon
302	4476	M46 (HOLLAND) @ TOWERLINE RD	Traffic Signal
303	4401	M52 @ SECOND ST	Flashing Beacon
304	4271	M53 (HURON) @ 1010' W OF School	School Speed Limit Sign
305	4227	US-127BR (CENTER) @ 370' E OF JEFFREY ST.	School CrossWalk Sign Beacon
306	4288	US127BR (MISSION) @ BELLOWS ST	Traffic Signal
307	4544	M-46 (SANILAC) @ 1450' W of M-53 (VAN DYKE)	Warning Sign Beacon
308	4443	M46 (GRATIOT) @ 830' W OF STEEL RD	Warning Sign Beacon
309	4368	US10BR,M20 (PATRICK) @ JEFFERSON	Traffic Signal
310	4511	M81 (WASHINGTON) @ 1180' E OF M15 (VASSAR)	Warning Sign Beacon
311	4208	M18 @ 200' N OF TONKIN (BEAVERTON SCHOOLS)	School CrossWalk Sign Beacon
312	4571	M15 (HURON) @ 450' NW OF WEST ST	School Speed Limit Sign
313	4151	I69 S.D. (8TH) WB @ SAGINAW	Traffic Signal
314	4059	US23 NB OFF RAMP @ US23BR (OWEN RD)	Traffic Signal
315	3985	M13 (HURON) @ BEAVER RD	Traffic Signal
316	4499	M47 (MAIN) @ WASHINGTON AVE	Traffic Signal
317	4424	M13 (EAST) @ 160' N OF HOULIHAN RD	Warning Sign Beacon
318	4083	M54 (DORT) @ LAPEER RD	Traffic Signal
319	4329	M24 (LAPEER) @ 1340' N OF BURNSIDE RD	Warning Sign Beacon
320	4311	M20 (PICKARD) @ 1300' E OF LEATON RD	Warning Sign Beacon
321	4002	M25 (MCKINLEY) @ M25 (MADISON)	Traffic Signal
322	4466	M46 (RUST) @ M46 (SHERIDAN)	Traffic Signal
323	4391	US10BR (EASTMAN) @ SAYRE ST	Illuminated Crosswalk Sign
324	4261	M25 (BECK) @ 460' S OF SHARPSTEEN ST	School CrossWalk Sign Beacon
325	4217	M30 @ M61	Flashing Beacon
326	4534	M83 (GERA) @ M46 (HOLLAND)	Flashing Beacon
327	4595	M81 (MAIN) @ SEEGAR ST	Traffic Signal
328	4174	M57 (VIENNA RD) @ MILL ST	Traffic Signal
329	4266	M142 (PIGEON) @ 570' W OF PINNEBOG RD	Warning Sign Beacon
330	4222	US127 @ RR XING (2587' N OF M57)	Traffic Signal
331	4600	M25 (BAY) @ M24 (CENTER)	Flashing Beacon
332	4438	M13 (WASHINGTON) @ EMERSON ST	Traffic Signal
333	4363	US10BR,M20 (BUTTLES) @ RODD ST	Traffic Signal
334	4566	M138 (MAIN) @ M138 (CENTER)	Flashing Beacon

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
335	4135	M21 (COURT) WB @ STEVENS ST		Traffic Signal
336	4357	M20 (ISABELLA) @ 1100' W OF HOMER RD		Warning Sign Beacon
337	4146	I69 S.D. (8TH) WB @ CHURCH ST		Traffic Signal
338	4054	US23 SB OFF RAMP @ HILL RD		Traffic Signal
339	3980	M13 (EUCLID) @ WILDER RD		Traffic Signal
340	4494	M58 (STATE) @ LAWNDAL RD		Traffic Signal
341	4419	M84 (BAY) @ KOCHVILLE RD		Flashing Beacon
342	4078	M54 (DORT) @ M121 (BRISTOL RD)		Traffic Signal
343	4245	US27BR (SUPERIOR) @ US27BR (WRIGHT)		Traffic Signal
344	4324	M24 (LAPEER) @ DAVIS LAKE RD		Traffic Signal
345	4306	M20 (HIGH) @ S MAIN ST NB		Traffic Signal
346	4562	M25 (MAIN) @ M90 (HURON)		Traffic Signal
347	3997	M-25 @ VETERANS MEMORIAL BRIDGE (ITS CAMERA)		ITS
348	3951	US23 (MAIN) @ OLD M76		Flashing Beacon
349	4461	M46 (WILLIAMS) WB @ HAMILTON		Flashing Beacon
350	4386	US10BR (EASTMAN) @ WACKERLY RD		Traffic Signal
351	4256	M-25 (Beck) @ 560' N of Wildner & McAlpin Rd		School Speed Limit Sign
352	4529	M83 (MAIN) @ ZEHNDERS CROSSWALK		Traffic Signal
353	4590	M81 @ 430' NE OF WASHINGTON (FIRE STATION)		Emergency Vehicle Sign Beacon
354	4169	M57 (VIENNA RD) @ MCKINLEY RD		Flashing Beacon
355	4193	I475 NB SERVICE RD @ M21 (5TH) EB		Traffic Signal
356	4101	M54 (DORT) @ DODGE RD		Flashing Beacon
357	4125	M21 (COURT) WB @ GRAND TRAVERSE		Traffic Signal
358	4347	M-53 @ 1650' N OF SHAW RD		Emergency Vehicle Sign Beacon
359	4020	M15 (TUSCOLA) @ CASS AVE		Traffic Signal
360	4044	US127BR (CLARE) NB @ 660' S of COLONVILLE (N JCT)		Warning Sign Beacon
361	3970	M13 @ WB LAFAYETTE ST BRIDGE		Traffic Signal
362	4484	M58 (STATE) EB @ MASON		Traffic Signal
363	4409	M84 (BAY) @ M58 (STATE) EB		Traffic Signal
364	4068	I75,US23 SB OFF RAMP @ PIERSON RD		Traffic Signal
365	4279	M19 (WASHINGTON) @ 185' N OF Union & James St		School CrossWalk Sign Beacon
366	4198	I475 NB SERVICE RD @ M21 (COURT) WB		Traffic Signal
367	4130	M21 (5TH) EB @ BEACH ST		Traffic Signal
368	4352	M20 (ISABELLA) @ 1320' E OF COLEMAN RD		Warning Sign Beacon
369	4025	US10 EB OFF RAMP @ MACKINAW RD		Traffic Signal
370	4141	I69 WB OFF RAMP @ CENTER RD		Traffic Signal
371	4049	M61 @ CLARE AVE (OLD US27)		Flashing Beacon
372	3975	M13 (EUCLID) @ I75BL,M25 (THOMAS) EB		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
373	4489	M58 (DAVENPORT) @ MACKINAW ST		Traffic Signal
374	4414	M84 (BAY) @ MCCARTY RD		Traffic Signal
375	4073	I69 EB OFF RAMP @ MORRISH RD (RACEWAY)		Traffic Signal
376	4284	US127BR (MISSION) @ BLUEGRASS,CAMPUS DR		Traffic Signal
377	4301	M20 (REMUS) @ LINCOLN RD		Traffic Signal
378	4557	M46, M19 (SANILAC) @ DAWSON,MAPLE VALLEY		Traffic Signal
379	3992	I75BL,M25 EB @ 1000' E of 2 Mi Rd		Warning Sign Beacon
380	3952	US23 @ GROVE ST		Flashing Beacon
381	4456	M46 (GRATIOT) @ BROCKWAY ST		Traffic Signal
382	4381	M30 @ 650' SE OF MOORE (FLOCK RD - FIRE STATION)		Emergency Vehicle Sign Beacon
383	4251	M46 (WASHINGTON) @ US127BR (MAIN)		Traffic Signal
384	4524	I75,US23 SB OFF RAMP @ DIXIE HWY		Traffic Signal
385	4585	M81 (CARO) @ M24 (CLEAVER,ELLINGTON)		Traffic Signal
386	4164	M15 NB (STATE) 1000' S DODGE RD		Warning Sign Beacon
387	4188	I475 SB SERVICE RD @ M21 (5TH) EB		Traffic Signal
388	4096	M54 (DORT) @ CARPENTER RD		Traffic Signal
389	4120	M21 (COURT) @ GLENWOOD,GARDEN		Traffic Signal
390	4107	M54 (DORT) @ HILL RD		Traffic Signal
391	4015	M84,M13 (LAFAYETTE) @ M13 (BROADWAY)		Traffic Signal
392	4039	US10,US127BR (MCEWAN) @ 460' N OF WHEATON		School CrossWalk Sign Beacon
393	3965	M247 (EUCLID) @ WHEELER RD		Flashing Beacon
394	4479	M58 (DAVENPORT) WB @ MICHIGAN		Traffic Signal
395	4404	M52 (GRAHAM) @ SWAN CREEK RD		Traffic Signal
396	4274	M53,M142 (PORT CRESCENT) @ 310' N OF IRWIN ST		School CrossWalk Sign Beacon
397	4230	US127BR (PINE RIVER) @ 360' S OF ARCADEA		School CrossWalk Sign Beacon
398	4291	US127BR,M20 (MISSION) @ M20 (PICKARD) (N JCT)		Traffic Signal
399	4547	M53 (VAN DYKE) @ M81 (CASS CITY RD)		Flashing Beacon
400	4446	M-46 @ X-OVER W. OF VANWORMER RD.		Traffic Signal
401	4371	US10BR,M20 (PATRICK) @ WASHINGTON		Traffic Signal
402	4514	M-81 (WASHINGTON) @ 1600' W OF REESE RD		School Speed Limit Sign
403	4211	M18,M61 (CEDAR) @ BOWERY ST		Traffic Signal
404	4235	M57 @ ELY HWY (FULTON SCHOOLS)		Flashing Beacon
405	4296	US127 NB OFF RAMPS @ M20 (PICKARD)		Traffic Signal
406	4552	M19 @ 160' N OF PINETREE		School Speed Limit Sign
407	4451	M46 (GRATIOT) @ CENTER RD		Traffic Signal
408	4376	M30 (MERIDIAN) @ N. SAGINAW ROAD		Traffic Signal
409	4519	M13 (WASHINGTON) @ 10TH ST		Traffic Signal
410	4580	M-24 (SANILAC) @ 2030' E OF M-46 (MERTZ)		Warning Sign Beacon

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
411	4159	M15 (STATE) @ CLARK ST		Traffic Signal
412	4507	M81 @ 430' W OF NODULAR		Warning Sign Beacon
413	4183	M57 (VIENNA) @ IRISH RD		Flashing Beacon
414	4432	M13 (WASHINGTON) @ GALLAGHER		Traffic Signal
415	4091	M54 (DORT) @ STEWART AVE		Traffic Signal
416	4115	M21 (CORUNNA) @ GRAHAM RD		Traffic Signal
417	4337	M-53 (VanDyke) @ 690' NW OF M-53 (MAIN)		Warning Sign Beacon
418	4319	M24 (LAPEER) @ I69 EB OFF RAMP		Traffic Signal
419	4102	M54 (DORT) @ M54BR (SAGINAW) N JCT		Traffic Signal
420	4010	M25 (CENTER) @ SCHUERMAN ST		Traffic Signal
421	4034	M115 @ MAPLE GROVE RD		Flashing Beacon
422	3960	M84 (SAGINAW) @ 3 MILE RD		Traffic Signal
423	4474	M46 (HOLLAND) @ OUTER DR		Traffic Signal
424	4399	M57 (Peet) @ 900' E OF CORUNNA RD		Warning Sign Beacon
425	4269	M53 (VAN DYKE) @ SEBEWAING,MCINTYRE RDS		Flashing Beacon
426	4225	M46 (MONROE) @ BEGOLE RD		Traffic Signal
427	4542	M53 (VAN DYKE) @ M46 (SANILAC)		Flashing Beacon
428	4441	M46 (SAGINAW) @ MIDLAND ST		Traffic Signal
429	4366	US10BR,M20 (INDIAN) @ GEORGE ST		Traffic Signal
430	4206	M-18 @ 450' N OF Broka Dr, Beaverton Area Fire Department		Emergency Vehicle Sign Beacon
431	4569	M15 (HURON) @ M15 (GOODRICH) & WATER		Traffic Signal
432	4138	I69 EB OFF RAMP @ CENTER RD		Traffic Signal
433	4360	M20 (JEROME) @ MAIN ST		Traffic Signal
434	4149	I69 S.D. (9TH) EB @ BEACH ST		Traffic Signal
435	4057	US23 SB OFF RAMP @ THOMPSON RD		Traffic Signal
436	3983	M13 (HURON) @ 50' E OF M13 CONNECTOR		Stop Sign Beacon
437	4497	M47 (MIDLAND) @ 1170' NW OF HOSPITAL RD		Warning Sign Beacon
438	4422	M-13 @ 670' S of Ann St		Emergency Vehicle Sign Beacon
439	4081	M54 (DORT) @ ELDON BAKER DR		Traffic Signal
440	4248	US-127BR(ALGER) @ CHEESMAN RD.		Traffic Signal
441	4327	M24 (LAPEER) @ BURNSIDE RD		Traffic Signal
442	4574	M15 @ 570' NW OF CENTER ST		School Speed Limit Sign
443	4154	M15 (STATE) @ BRISTOL RD		Flashing Beacon
444	4062	I75,US23 NB OFF RAMP @ MILLER RD		Traffic Signal
445	3988	M13 (HURON) @ FIFTH ST		Traffic Signal
446	4502	M58 (STATE) EB @ STONE ST		Traffic Signal
447	4178	M57 (VIENNA RD) @ M54 (SAGINAW)		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
448	4427	M13 (SHERIDAN) @ 3190' N OF M57 (VIENNA)		Warning Sign Beacon
449	4086	M54 (DORT) @ DAVISON RD		Traffic Signal
450	4110	M21 (CORUNNA) @ ELMS RD		Traffic Signal
451	4332	M53 (MAIN) @ ST CLAIR ST		Traffic Signal
452	4005	M25 (CENTER) @ LINCOLN ST		Traffic Signal
453	3955	US23 @ SAGINAW & MACKINAW STS		Flashing Beacon
454	4469	M46 (REMINGTON) @ WARREN AVE		Traffic Signal
455	4394	M-57(BRADY) @ 600' E OF CHESANING BRADY FIRE STATION		Emergency Vehicle Sign Beacon
456	4264	M142 (PIGEON) @ PINNEBOG RD		Flashing Beacon
457	4220	M30 NB @ 1400' S of M61		Warning Sign Beacon
458	4537	I75 SB OFF RAMP @ M54,M83 (BIRCH RUN RD)		Traffic Signal
459	4598	M81 (MAIN) @ 270' W OF ALE ST		School CrossWalk Sign Beacon
460	4436	M13 (WASHINGTON) @ HOLLAND AVE		Traffic Signal
461	4361	US10BR,M20 (INDIAN) @ M20 (JEROME)		Traffic Signal
462	4201	I475 SB SERVICE RD @ BRISTOL		Traffic Signal
463	4133	M21 (COURT) WB @ HARRISON ST		Traffic Signal
464	4355	M20 (ISABELLA) @ 1000' E OF MERIDIAN RD		Warning Sign Beacon
465	4144	I69 S.D. (9TH) EB @ GRAND TRAVERSE		Traffic Signal
466	4052	US23 NB OFF RAMP @ THOMPSON RD		Traffic Signal
467	3978	M13 (EUCLID) @ N UNION ST		Traffic Signal
468	4492	M58 (STATE) @ CENTER RD		Traffic Signal
469	4417	M84 (BAY) @ TITTAWASSEE RD		Traffic Signal
470	4076	M54 (DORT) @ M54BR (SAGINAW) S JCT		Traffic Signal
471	4243	US27BR (SUPERIOR) @ MICHIGAN & EUCLID		Traffic Signal
472	4304	M20 (HIGH) @ WATSON ST		Traffic Signal
473	4560	M46 (CHANDLER) @ 430' W OF CARSONVILLE ELEMENTARY SCHOOL		School CrossWalk Sign Beacon
474	3995	M25 (THOMAS) EB @ HENRY ST		Traffic Signal
475	3953	US-23 AT MAIN (OMER)		Flashing Beacon
476	4459	M46 (WILLIAMS) WB @ MICHIGAN		Traffic Signal
477	4384	US10 EB OFF RAMP @ WHEELER,WALDO RDS		Traffic Signal
478	4254	M-46 AT 490' W OF Fire Station		Emergency Vehicle Sign Beacon
479	4527	M83 (MAIN) @ JEFFERSON ST		Traffic Signal
480	4588	M81 (STATE) @ VAN GIESEN RD,COLLING		Traffic Signal
481	4309	M20 (PICKARD) @ ISABELLA RD		Traffic Signal
482	4000	M25 (MCKINLEY) @ SAGINAW ST		Traffic Signal
483	4464	M46 (RUST) @ JEFFERSON AVE		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
484	4389	US10BR (EASTMAN) @ SUGNET ST		Traffic Signal
485	4259	M25 (BECK) @ MAIN ST		Flashing Beacon
486	4215	M30 @ 2000' SW OF INDIAN LAKE RD		Emergency Vehicle Sign Beacon
487	4532	M83 (MAIN) @ GENESEE		Traffic Signal
488	4593	M-81 @ WAL-MART DR		Traffic Signal
489	4172	M57 (VIENNA RD) @ PETERSON RD		Traffic Signal
490	4196	I475 SB OFF RAMP @ STEWART,DORT		Traffic Signal
491	4128	M21 (5TH) EB @ CHURCH ST		Traffic Signal
492	4350	M20 (ISABELLA) @ COLEMAN RD		Traffic Signal
493	4023	M15 (TRUMBULL) @ MCKINLEY		Traffic Signal
494	4139	I69 EB OFF RAMP @ BELSAY RD		Traffic Signal
495	4047	M61 (MAIN) WB @ 150' E OF 2ND		School Speed Limit Sign
496	3973	M13 (EUCLID) @ I75BL,M13,M84 (SALSBURG)		Traffic Signal
497	4487	M-58 (DAVENPORT) @ 380' E of BRENNER		School Speed Limit Sign
498	4412	M84 (BAY) @ SHATTUCK		Traffic Signal
499	4071	I75,US23 SB OFF RAMP @ M21 (CORUNNA)		Traffic Signal
500	4238	US27BR (SUPERIOR) @ STATE		Traffic Signal
501	4299	M20 (REMUS) @ 1120' E OF WINN RD		Warning Sign Beacon
502	4555	M19 (UBLY) @ BAY CITY,FORESTVILLE RD		Flashing Beacon
503	4454	M46 (GRATIOT) @ ELM ST		Traffic Signal
504	4379	M30 @ 850' S OF MERIDIAN SCHOOLS		School Speed Limit Sign
505	4522	I675 SB OFF RAMP @ TITABAWASSEE RD		Traffic Signal
506	4583	M24 (MERTZ) @ 1240' N OF M46 (SANILAC)		Warning Sign Beacon
507	4162	M15 (STATE) @ COLDWATER RD		Flashing Beacon
508	4510	M81 (WASHINGTON) @ 1030' W OF M15 (VASSAR)		Warning Sign Beacon
509	4186	I475 SB OFF RAMP @ EB DAVISON		Traffic Signal
510	4435	M13 (WASHINGTON) @ EZRA RUST DR		Traffic Signal
511	4094	M54 (DORT) @ ASN MARTIN DR		Warning Sign Beacon
512	4118	M21 (CORUNNA) @ ZIMMERMAN SCHOOL		Traffic Signal
513	4340	M53 @ I69 EB OFF RAMP		Traffic Signal
514	4322	M24 (MAIN) @ NEPESSING ST		Traffic Signal
515	4105	M54 (DORT) @ GRAND BLANC RD		Traffic Signal
516	4167	M57 (VIENNA) @ SAGINAW ST & NICHOLS RD		Traffic Signal
517	4191	I475 NB OFF RAMP @ BROADWAY WB		Traffic Signal
518	4099	M54 (DORT) @ MT MORRIS RD		Traffic Signal
519	4123	M21 (COURT) WB @ ANN ARBOR ST		Traffic Signal
520	4345	M53 (VAN DYKE) @ BOWERS RD		Flashing Beacon
521	4018	M84 (WASHINGTON) @ M25 (MCKINLEY)		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
522	4042	US127BR (FIRST) @ TOWNLINE LAKE RD		Traffic Signal
523	3968	M13 (BROADWAY) @ FREMONT AVE		Traffic Signal
524	4482	M58 (DAVENPORT) WB @ 370' E OF STONE ST		School Speed Limit Sign
525	4407	M47 (MIDLAND) @ M46 (GRATIOT)		Traffic Signal
526	4066	I75 NB OFF RAMP @ M57 (VIENNA)		Traffic Signal
527	4277	M53 @ KINDE RD		Flashing Beacon
528	4233	US127BR (MAIN) @ 170' S OF STATE ST		School Speed Limit Sign
529	4294	US127BR (MISSION) @ M20 (HIGH) (S JCT)		Traffic Signal
530	4550	M90 (MAIN) @ 80' E OF WALTER ST		Emergency Vehicle Sign Beacon
531	4449	M46 (GRATIOT) @ RIVER RD		Traffic Signal
532	4374	US10BR,M20 (BUTTLES) @ M20 (JEROME)		Traffic Signal
533	4517	M13 (WASHINGTON) @ JOHNSON ST		Traffic Signal
534	4578	M46 @ ROSS ST		Flashing Beacon
535	4157	M15 (STATE) @ LAPEER RD		Traffic Signal
536	4505	M81 (WASHINGTON) @ OUTER DR		Flashing Beacon
537	4181	M57 (VIENNA) @ GENESEE RD		Flashing Beacon
538	4430	M13 (SHERIDAN) @ 2590' S OF M57 (VIENNA)		Warning Sign Beacon
539	4089	M54 (DORT) @ RICHFIELD RD		Traffic Signal
540	4113	M21 (CORUNNA) @ MANSOUR,HOME DEPOT DR		Traffic Signal
541	4335	M53 (MAIN) @ 340' S OF CENTENNIAL BLVD		Warning Sign Beacon
542	4317	M24 (LAPEER) @ PRATT RD		Traffic Signal
543	4008	M25 (CENTER) @ PARK AVE		Traffic Signal
544	4032	US10 @ LAKE STATION AVE		Flashing Beacon
545	3958	M65 (HALE) @ MAIN ST,TWINING RD		Flashing Beacon
546	4472	M46 (HOLLAND) @ 240' W OF 17TH ST		Keep Right Sign
547	4397	M57 (BROAD) @ M57 (MAIN)		Flashing Beacon
548	4223	US127 @ 755' S of RR XING		Warning Sign Beacon
549	4540	M53 (MAIN) @ EUCLID ST,PLAZA DR		Traffic Signal
550	4439	M13 (WASHINGTON) @ JANES AVE		Traffic Signal
551	4364	US10BR,M20 (INDIAN) @ RODD ST		Traffic Signal
552	4013	M25 (CENTER) @ 690' W OF WAGNER RD		Emergency Vehicle Sign Beacon
553	4037	US127BR (MCEWAN) @ M115 (5TH)		Traffic Signal
554	3963	M84 (SAGINAW) @ SALZBURG RD		Traffic Signal
555	4477	M46 (SHERIDAN) @ HOLLAND AVE		Traffic Signal
556	4402	M52 (OAKLEY) @ M57 (BRADY)		Flashing Beacon
557	4272	M53,M142 (PORT CRESCENT) @ M53,M142 (HURON)		Traffic Signal
558	4228	US-127BR (CENTER) @ 300' W OF JEFFREY ST.		School CrossWalk Sign Beacon
559	4289	US127BR,M20 (MISSION) @ MICHIGAN		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID	Signal Device Location ID Description		Device Description
560	4545	M53 (VAN DYKE) @ 1580' S OF M46 (SANILAC)		Warning Sign Beacon
561	4444	M46 (GRATIOT) @ HEMLOCK RD		Traffic Signal
562	4369	US10BR,M20 (LYON) @ JEFFERSON		Traffic Signal
563	4512	M15 (VASSAR) @ 1700' N of M81 (WASHINGTON)		Warning Sign Beacon
564	4209	M18 (CROSS) @ BROWN ST		Traffic Signal
565	4572	M15 (HURON) @ 350' E OF WEST ST		School Speed Limit Sign
566	4152	M15 (STATE) @ W HEGEL ST		Traffic Signal
567	4060	US23 SB RAMPS @ SILVER LAKE RD		Traffic Signal
568	3986	M13 (HURON) @ PARISH RD		Traffic Signal
569	4500	M58 (STATE) EB @ MICHIGAN AVE		Traffic Signal
570	4176	M57 (VIENNA RD) @ 430' W OF RODGERS LODGE LN		School Speed Limit Sign
571	4425	M13 (EAST) @ 420' S OF HOULIHAN RD		Warning Sign Beacon
572	4084	M54 (DORT) @ (COURT ST)		Traffic Signal
573	4330	M24 (MAIN) @ GENESEE (OLD M21)		Traffic Signal
574	4003	M25 (MADISON) @ M25 (7TH)		Traffic Signal
575	4467	M46 (HOLLAND) @ M46 (WARREN)		Traffic Signal
576	4262	M25 (PORT AUSTIN) @ CRESCENT BEACH RD		Flashing Beacon
577	4218	M61 WB @ 1250' E of M30		Warning Sign Beacon
578	4535	M15 (VASSAR) @ M83 (GERA)		Flashing Beacon
579	4596	M81 (MAIN) @ 280' E OF SHERMAN ST		Emergency Vehicle Sign Beacon
580	4175	M57 (VIENNA RD) @ 275' E OF RODGERS LODGE LN		School Speed Limit Sign
581	4199	I475 NB OFF RAMP @ HILL RD		Traffic Signal
582	4131	M21 (COURT) WB @ SAGINAW		Traffic Signal
583	4353	M20 (ISABELLA) @ MERIDIAN RD		Traffic Signal
584	4026	US10 WB OFF RAMP @ MACKINAW RD		Traffic Signal
585	4142	I69 EB OFF RAMP @ M15 (STATE)		Traffic Signal
586	4567	M15 @ BIRCH RUN RD		Flashing Beacon
587	4136	I69 EB OFF RAMP @ M54 (DORT)		Traffic Signal
588	4358	M20 (ISABELLA) @ 1180' E OF HOMER RD		Warning Sign Beacon
589	4147	I69 S.D. (9TH) EB @ CHURCH ST		Traffic Signal
590	4055	US23 NB OFF RAMP @ GRAND BLANC RD		Traffic Signal
591	3981	M13 (HURON) @ WHEELER RD		Traffic Signal
592	4495	M58 (STATE) @ M47 CONNECTOR		Traffic Signal
593	4420	M84 (BAY) @ PIERCE RD		Traffic Signal
594	4079	M54 (DORT) @ HEMPHILL RD		Traffic Signal
595	4246	US27BR (WRIGHT) @ WARWICK ST		Traffic Signal
596	4325	M24 (LAPEER) @ DALEY RD		Traffic Signal
597	4307	M20 (HIGH) @ KINNEY ST		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
598	4563	M25 (HURON SHORE PIKE) @ M46 (MAIN)		Traffic Signal
599	3998	M25 EB @ VETERANS MEMORIAL BRIDGE		Traffic Signal
600	3948	EB US23 OFF RAMP OVER M13 HURON RD		Flashing Beacon
601	4462	M46 (STEPHENS) @ RR & NIAGARA		Internally illuminated sign (Street name(
602	4387	US10BR (EASTMAN) @ DILLOWAY DR		Traffic Signal
603	4257	M-25 (Beck) @ 1620' S of Elementary School Dr		School Speed Limit Sign
604	4213	M-61 @ 700' E OF INDUSTRIAL DR		Emergency Vehicle Sign Beacon
605	4530	M83 (MAIN) @ CASS		Traffic Signal
606	4591	M81 (STATE) @ FRANK		Traffic Signal
607	4170	M57 (VIENNA RD) @ ELMS RD		Traffic Signal
608	4194	I475 SB OFF RAMP @ BROADWAY WB		Traffic Signal
609	4126	M21 (5TH) EB @ GRAND TRAVERSE		Traffic Signal
610	4348	M53,M90 (VAN DYKE) @ M90 (BURNSIDE)		Traffic Signal
611	4021	M15 (TUSCOLA) @ 22ND ST,YOUNGS DITCH RD		Traffic Signal
612	4045	M-61 @ 700' W OF SULLIVAN DR.		Warning Sign Beacon
613	3971	M13 @ EB LAFAYETTE ST BRIDGE		Traffic Signal
614	4485	M58 (STATE) EB @ WOODBRIDGE		Traffic Signal
615	4410	M84 (BAY) @ M58 (DAVENPORT) WB		Traffic Signal
616	4069	I75,US23 NB OFF RAMP @ PIERSON RD		Traffic Signal
617	4280	M19 @ MAIN ST		Flashing Beacon
618	4236	M57 @ 1440' W OF ELY HWY (FULTON SCHOOLS)		School Speed Limit Sign
619	4297	M20 (REMUS) AT COLDWATER RD		Flashing Beacon
620	4553	M19 @ 110' N of Gleason St		School Speed Limit Sign
621	4452	M46 (GRATIOT) @ GOLFVIEW COUNTRY CLUB DRS		Traffic Signal
622	4377	M30 @ 630' S OF JEROME TWP FIRE STATION NO 2		Emergency Vehicle Sign Beacon
623	1920	M52 (SHIAWASSEE) @ M21 (MAIN)		Traffic Signal
624	1937	M21 (W MAIN) @ CEDAR		Traffic Signal
625	1915	M52 AT LANSING ROAD		Traffic Signal
626	1932	M21 (MAIN) @ DELANEY RD		Traffic Signal
627	1927	M71 (CORUNNA) @ M71 (SHIAWASSEE)		Traffic Signal
628	1945	M21 @ STATE RD		Traffic Signal
629	1918	M52 (SHIAWASSEE) @ 280' N OF Prindle St		School CrossWalk Sign Beacon
630	1935	M21 (MAIN) @ 480' E OF BROOKS		School CrossWalk Sign Beacon
631	1940	M21 (MAIN) @ PARK ST		Traffic Signal
632	1913	M52 @ 470' N OF HORACE ST		School CrossWalk Sign Beacon
633	1925	M71 @ VERNON RD		Flashing Beacon
634	1943	M21 (MAIN) @ Airport Trail		Traffic Signal
635	1921	M52 (SHIAWASSEE) @ OLIVER ST		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
636	1938	M21 (MAIN) @ M71 (WATER)		Traffic Signal
637	1916	M52 @ GRAND RIVER RD		Flashing Beacon
638	1933	M21 (W MAIN) @ CHESTNUT ST		Traffic Signal
639	1923	LANSING RD (OLD TEMP EB I69) @ WOODBURY RD		Flashing Beacon
640	1928	M71 (CORUNNA) @ GOULD ST		Traffic Signal
641	1941	M21 (MAIN) @ DEWEY ST		Traffic Signal
642	1946	M21 (CORUNNA) @ DURAND RD		Flashing Beacon
643	1919	M52 (SHIAWASSEE) @ STEWART		Traffic Signal
644	1936	M21 (MAIN) @ CHIPMAN ST		Traffic Signal
645	1914	M52 @ 550' S OF HORACE ST		School CrossWalk Sign Beacon
646	1931	M71 (CORUNNA) @ M71 (WASHINGTON)		Traffic Signal
647	1926	M71 (SHIAWASSEE) @ M71 (MCNEIL)		Traffic Signal
648	1944	M21 @ WALMART Driveway		Traffic Signal
649	1922	M52 (SHIAWASSEE) @ KING ST		Traffic Signal
650	1939	M21 (MAIN) @ WASHINGTON ST		Traffic Signal
651	1917	M52 (SHIAWASSEE) @ 410' S OF Prindle St		School CrossWalk Sign Beacon
652	1934	M21 (MAIN) @ 430' W OF BROOKS		School CrossWalk Sign Beacon
653	1924	OLD M78 (LANSING RD) @ SHAFTSBURG RD		Flashing Beacon
654	1942	M21 (MAIN) @ GOULD ST		Traffic Signal
655	3370	M29 WB @ 740' E OF AINSWORTH RD School Crossing		School Speed Limit Sign
656	3322	M19 (MAIN) @ EMMETT FIRE STATION		Emergency Vehicle Sign Beacon
657	3380	M29 @ 600' S OF DELINA ST Fire Station		Emergency Vehicle Sign Beacon
658	3403	LAPEER CONNECTOR NB @ 440' S of I94 WB ON RAMP		Warning Sign Beacon
659	3338	I94BL (GRATIOT) @ RANGE RD		Traffic Signal
660	3415	M25 (LYMBURNER) @ BIRCHWOOD MALL DR		Traffic Signal
		I94BL,M25 (PINE GROVE) @ BLUE WATER BRIDGE		
661	3392	ENTRANCE		Traffic Signal
662	3357	M25 (LAKESHORE) @ 850' S of ST EDWARDS SCHOOL		School Speed Limit Sign
663	3346	I94BL,I69BL (MILITARY) @ WATER		Traffic Signal
664	3408	I94 WB OFF RAMP @ RANGE RD		Traffic Signal
665	3397	M25 (PINE GROVE) @ N RIVER RD		Traffic Signal
666	3365	M29 @ ANCHOR BAY DR		Flashing Beacon
667	3352	I94BL,I69BL (PINE GROVE) @ ERIE,KEARNEY		Traffic Signal
668	3386	M29 (RIVERSIDE) @ PINE RIVER BRIDGE		Traffic Signal
669	3381	M29 @ WEST BLVD		Traffic Signal
670	3367	M29 @ 390' SE OF PEARL BEACH		Warning Sign Beacon
671	3323	M19 @ FARRELL ELEMENTARY SCHOOL		School Speed Limit Sign
672	3372	M-29(PT TREMBLE) AT DNR/FARMER JACKS DR		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
673	3324	M19 @ FARRELL ELEMENTARY SCHOOL		School Speed Limit Sign
674	3377	M29 @ 520' NE OF COLUMBIA ST & City Hall		Emergency Vehicle Sign Beacon
675	3325	M-19 @ Dunnigan Rd		Flashing Beacon
676	3418	M-25 @ KETTLEWELL AUDUBON		Traffic Signal
677	3360	M136(BEARD) @ NORTH RD (N JCT)		Flashing Beacon
678	3410	I-94 CONN. @ M-25 (HANCOCK)		Traffic Signal
679	3399	M136 (PINE GROVE) @ 580' SE OF KRAFFT RD		Warning Sign Beacon
680	3363	M29 (DIXIE) @ MELDRUM RD		Emergency Traffic Signal (E1)
681	3336	I69BL (GRISWOLD) WB @ 16TH ST		Traffic Signal
682	3413	M-25 (24th Ave) at TJ Maxx Dr and ABC Warehouse Dr		Traffic Signal
683	3394	M25 (PINE GROVE) @ I94 CONNECTOR		Traffic Signal
684	3355	I94BL (ELECTRIC) @ 10TH ST		Traffic Signal
685	3383	M29 (MAIN) @ BROADWAY		Traffic Signal
686	3369	M29 EB @ 590' W OF AINSWORTH RD School Crossing		School Speed Limit Sign
687	3327	M19 (MAIN) @ PARK & NORTH ST		Traffic Signal
688	3350	I94BL,I69BL (HURON) @ MCMORRAN ST		Traffic Signal
689	3388	M29 (BUSHA HWY) @ MICHIGAN AVE		Traffic Signal
		M-29 (PT TREMBLE) WB AT 690' E of DNR/FARMER JACKS		
690	3374	DR		Warning Sign Beacon
691	3328	I69 WB OFF RAMP @ WADHAMS RD		Traffic Signal
692	3379	M29 @ 260' N OF DELINA ST Fire Station		Emergency Vehicle Sign Beacon
693	3339	I94BL (GRATIOT) @ MEIJER,SHOPPING CENTER DR		Traffic Signal
694	3416	M25 (24TH AVE) @ KEEWAHDIN AVE		Traffic Signal
		M25 (PINE GROVE) @ I94/I69 EB OFF RAMP (PINE GROVE		
695	3391	CONN.)		Traffic Signal
696	3358	M25 (LAKESHORE) @ 660' N OF ST EDWARDS SCHOOL		School Speed Limit Sign
697	3407	I94 EB OFF RAMP @ RANGE,DOVE RDS		Traffic Signal
698	3342	I94BL (GRATIOT) @ M29 (RIVER)		Traffic Signal
699	3396	M25 (PINE GROVE) @ HOLLAND		Traffic Signal
700	3353	I94BL,I69BL (PINE GROVE) @ STONE,THOMAS		Traffic Signal
701	3385	M29 @ 1100' N OF EDISON PLANT DRS		Warning Sign Beacon
702	3341	I94BL (GRATIOT) @ MICHIGAN		Traffic Signal
703	3412	M25 (24TH ST) @ KRAFFT RD		Traffic Signal
704	3348	I94BL,I69BL (HURON) @ QUAY ST		Traffic Signal
705	3366	M29 @ 380' NW OF PEARL BEACH		Warning Sign Beacon
706	3371	M29 @ HARSENS ISLAND FERRY		Traffic Signal
707	3329	I69 EB OFF RAMP @ WADHAMS RD		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
708	3337	I69BL (GRISWOLD) WB @ 10TH ST		Traffic Signal
		M25 @ LOWES / HOME DEPOT DR. (APPROX 2000' N OF		
709	3414	KRAFFT RD)		Traffic Signal
710	3393	M25 (PINE GROVE) @ HANCOCK ST		Traffic Signal
711	3376	M29 @ 160 SW OF COLUMBIA ST & CITY HALL		Emergency Vehicle Sign Beacon
712	3330	I69BL @ WB GRISWOLD RD		Flashing Beacon
713	3419	M25 (LYMBURNER) @ 380' S OF LAKE SHORE DR		Keep Right Sign
714	3347	I94BL,I69BL (HURON) @ BLACK RIVER BRIDGE		Traffic Signal
715	3361	M29 @ BETHUY RD		Traffic Signal
716	3398	M136 (PINE GROVE) @ KRAFFT RD		Traffic Signal
717	3364	M29 (DIXIE HWY) @ PALMS RD		Traffic Signal
718	3351	I94BL,I69BL (PINE GROVE) @ HURON,GLENWOOD		Traffic Signal
719	3387	M29 (RIVERSIDE) @ CLINTON		Traffic Signal
720	3356	M25 @ N END DIVIDER		Keep Right Sign
721	3401	M136 (KEEWAHDIN) @ STATE RD		Flashing Beacon
722	3382	M29 @ WEST BLVD		Warning Sign Beacon
723	3368	M29 @ AINSWORTH St		Emergency Traffic Signal (E1)
724	3331	I69BL @ 32ND ST		Traffic Signal
725	3321	M19 (MAIN) @ EMMETT FIRE STATION		Emergency Vehicle Sign Beacon
		M-29 (PT TREMBLE) EB AT 700' W of DNR/FARMER JACKS		
726	3373	DR		Warning Sign Beacon
727	3332	I69BL (OAK) EB @ 24TH ST		Traffic Signal
728	3344	I94BL,I69BL @ I69BL (OAK)		Traffic Signal
729	3378	M29 (PARKER) @ CHARTIER		Traffic Signal
730	3333	I69BL (OAK) EB @ 16TH ST		Traffic Signal
731	3417	M25 @ MEIJER DR (1900' N OF KEEWAHDIN)		Traffic Signal
732	3390	I94BL,M25 (PINE GROVE) @ 10TH & SCOTT		Traffic Signal
733	3359	M25 @ BURTCH & MILWAUKEE RDS		Flashing Beacon
734	3411	M-25 (Pine Grove Ave, 24th Ave) at M-136 (Pine Grove)		Traffic Signal
735	3406	I94 CONNECTOR NB @ S OF HANCOCK		Warning Sign Beacon
736	3343	I94BL (ELECTRIC) @ 24TH & CONNERS RD		Traffic Signal
737	3395	M25 (PINE GROVE) @ SANBORN		Traffic Signal
738	3354	I94BL (ELECTRIC) SB @ 16TH ST		Flashing Beacon
739	3384	M29 @ 830' S OF EDISON PLANT DRS		Warning Sign Beacon
740	3340	I94BL (GRATIOT) @ HURON BLVD		Traffic Signal
741	3400	M136 (PINE GROVE) @ 900' NW OF KRAFFT RD		Warning Sign Beacon
742	3362	M29 (DIXIE) @ CHURCH		Flashing Beacon
743	3349	I94BL,I69BL (HURON) @ GRAND RIVER		Traffic Signal

Signal		Signal Device Location ID Description		Device Description
OBJ	Location ID			
744	3389	M29 (BUSHA HWY) @ HURON ST		Traffic Signal
745	3334	I69BL (OAK) EB @ 10TH ST		Traffic Signal
746	3375	M29 (PT AUX TREMBLE @ STATE & ECKFIELD		Traffic Signal
747	3335	I69BL (GRISWOLD) WB @ 24TH ST		Traffic Signal
748	3420	M25 (LYMBURNER) @ LAKE SHORE DR		Flashing Beacon
749	4192	I475 SB OFF RAMP @ SAGINAW St		Traffic Signal
750	4195	I475 NB OFF RAMP @ SAGINAW St		Traffic Signal
751	4577	I-69 EASTBOUND EXIT RAMP AT M-52		Traffic Signal
752	3404	I94 NEB OFF RAMP @ WATER ST		Traffic Signal
753	3405	I94 SWB OFF RAMP @ WATER ST		Traffic Signal
754	3409	I-94 CONNECTOR SB @ LAPEER RD (WAS 77111-004)		Traffic Signal
755	3243	M47 (MIDLAND RD) @ CHURCH ST		Emergency Vehicle Sign Beacon
756	4565	M47 (MIDLAND RD) @ CHURCH ST		Emergency Vehicle Sign Beacon
757	4493	M58 (STATE) @ WEINEKE		Traffic Signal
758	4150	I69 S.D. (9TH) EB @ SAGINAW		Traffic Signal
759	3661	M-47 NB @ 700' S of US-10		Warning Sign Beacon
760	4029	M-47 NB @ 280' N of US-10		Warning Sign Beacon
761	3999	M25 WB @ VETERANS MEMORIAL BRIDGE		Traffic Signal
762	4608	M-24 @ Turrill Rd		Traffic Signal
763	4746	M-90 WB prior to school		School Speed Limit Sign
764	4745	M-90 EB prior to school		School Speed Limit Sign
765	4845	US-10 WB Off Ramp @ 750' E of M-30 Roundabout		Warning Sign Beacon
766	4843	M-30 NB @ 850' S of US-10 WB Off Ramp Roundabout		Warning Sign Beacon
767	4844	M-30 SB @ 700' N of US-10 WB Off Ramp Roundabout		Warning Sign Beacon
768	4846	M-53 (Cedar) NB @ 300' S of Borland Rd		Emergency Vehicle Sign Beacon
769	4847	M-53 (Cedar) SB @ 300' N of Borland Rd		Emergency Vehicle Sign Beacon
770	4861	I-94 Connector SB @ 990' N of Lapeer Rd		Warning Sign Beacon
771	4866	SE Quad of M52 (SHIAWASSEE) @ Prindle St		School CrossWalk Sign Beacon
772	4870	SW Quad of M-19 @ Pinetree		School Speed Limit Sign
773	4878	M13 (HURON) @ M13 CONNECTOR		Flashing Beacon
774	4883	US10BR,M20 WB @ 700' E of Roundabout		Warning Sign Beacon
775	4884	M57 (VIENNA) EB @ 1100' W of CENTER RD (FIRE STATION)		Emergency Vehicle Sign Beacon
776	4885	M57 (VIENNA) WB @ 1000' E of CENTER RD (FIRE STATION)		Emergency Vehicle Sign Beacon
777	4907	US-10 WB Ramp @ 760' before US-10 BR		Warning Sign Beacon
778	4928	M53,M90 (VAN DYKE) SB @ 886' N of M90 (BURNSIDE)		Warning Sign Beacon
779	4929	M53 (VAN DYKE) NB @ 1110' S of M90 (BURNSIDE)		Warning Sign Beacon

Signal			
OBJ	Location ID	Signal Device Location ID Description	Device Description
780	4239	REPUBLIC AVE @ 20' S of US27BR (SUPERIOR)	Stop Sign Beacon
781	4240	REPUBLIC AVE @ 20' N of US27BR (SUPERIOR)	Stop Sign Beacon
782	3326	Dunnigan Rd @ 1160' SE of M-19	Warning Sign Beacon
783	730	Dunnigan Rd @ 1100' NW OF M-19	Warning Sign Beacon
784	4984	US-127BR NB @ 800' S of N Mission Rd in Clare	Warning Sign Beacon
785	4985	US127BR SB @ 2400' NE of Mission Rd	Warning Sign Beacon