



State of Michigan

**Department of Technology, Management and Budget
State Facilities Administration
Design and Construction Division**

**DCSPEC
Bidding and Contract Document
Minor Projects**

**File No. 761/24161.IND
Michigan Department of Environment, Great
Lakes, and Energy
Remedial Investigation at LUST Site
12161 Dexter Ave., Detroit**

June 18, 2024

BID SUMMARY

**DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION
DESIGN AND CONSTRUCTION DIVISION
3111 W. St. Joseph Street
Lansing, Michigan 48917**

Bids must be submitted electronically at: <https://sigma.michigan.gov/webapp/PRDVSS2X1/AltSelfService>

FILE NUMBER 761/24161.IND	DEPARTMENT/AGENCY Michigan Department of Environment, Great Lakes, and Energy		
CONTRACT TIME(S) 80 days following notice to proceed	PROJECT NAME Remedial Investigation at LUST Site	LOCATION 12161 Dexter Ave., Detroit, Michigan	
BID OPENING DATE July 17, 2024		FOR AN EXAMINATION OF THE SITE CONTACT: Julie Barton, AKT Peerless (313) 962-9353 at 2:00 pm ET	
SEE SECTION 00100 INSTRUCTIONS TO BIDDERS AND SECTION 00700 GENERAL CONDITIONS PROVIDED WITH THE BIDDING DOCUMENTS. BID: WE PROPOSE TO FURNISH, PERFORM AND COMPLETE THE ENTIRE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN CONSIDERATION OF THE BID PRICE (S) STATED BELOW.			
FIRM NAME AND COMPLETE ADDRESS		TELEPHONE NUMBER and E-MAIL ADDRESS	
<input type="checkbox"/> Qualified Disabled Veteran BIDDER'S SIGNATURE AND TITLE _____ DATE _____		<u>SIGMA VENDOR NUMBER</u>	
		<small>(protected information required for processing payments)</small>	
		WITNESS' SIGNATURE _____	DATE _____

By signing this bid above, bidder certifies their enclosed Qualified Disabled Veteran and Michigan-Based Business Certifications.

BASE BID FROM BID SCHEDULE (Include specified Allowances):

(use words) _____	Dollars \$	(in figures) _____
Alternate 1: (Add/Subtract) _____	Dollars \$	(in figures) _____
(use words)		
Alternate 2: (Add/Subtract) _____	Dollars \$	(in figures) _____
(use words)		
Alternate 3: (Add/Subtract) _____	Dollars \$	(in figures) _____
(use words)		

A PERFORMANCE BOND AND A PAYMENT BOND ARE REQUIRED FOR ALL BIDS OVER \$50,000.00. EACH BID MUST BE ACCOMPANIED BY A FIVE (5) PERCENT BID GUARANTEE. BUILDERS RISK INSURANCE IS REQUIRED TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED IN THE BID DOCUMENTS.

BIDDERS ARE ALSO CAUTIONED TO FAMILIARIZE THEMSELVES WITH ALL OF THE OTHER CONDITIONS OF THE CONTRACT.

Project Scope of Work:

Remedial action comprised of the following major work scope elements:

- Removal of abandoned underground storage tank (UST) systems including tanks, piping, fill ports, dispenser island, etc.
- Removal and proper disposal of contaminated soils, up to, but not beneath roadway and not within right-of-way utility corridors.
- Removal and proper disposal of contaminated groundwater, if encountered, from the excavation.
- Collection of verification soil samples.
- Backfilling and compacting the excavation with certified clean fill to existing grade, covered with topsoil from an approved source, and seeding with grass or other material as determined in consultation with EGLE and the property owner.
- Replacement of sidewalks and other public infrastructure if damaged by site remedial activities.
- Replacement of any deteriorated or damaged sidewalks present on the site properties.

- Restoration of the remaining portion of the site with grass seeding and repair of any damage to the public infrastructure or right-of-way.

Work hours will be from 8:00 am until 6:00 pm, or until dark (whichever is earliest). Virgin fill must be used and fill source must be identified, reviewed and approved by EGLE prior to work starting. A 24-hour turnaround time will be requested for the verification samples and additional excavation and samples may be collected dependent upon results. The contractor shall backfill only when analytical is reviewed and approved by Professional and Owner. The excavation will continue until the Owner determines excavation is completed. Topsoil must be obtained from a commercial topsoil provider/certified landscape supplier and the source of topsoil must be approved by EGLE prior to soil removal. Grass seed may include hard fescue, Kentucky Blue Grass, Perennial Rye Grass, or Creeping Red Fescue.

Refer to the Remedial Action Work Plan, dated May 20, 2024 prepared by AKT Peerless.

The Bidder must figure its Base Bid on the specified, or Addendum-approved, materials and equipment only. No "or equal" or substitution proposals will be permitted after Bid opening, except as provided in the General Conditions.

Addenda: Bidder acknowledges receipt of Addenda: No. ___ dated: _____, No. ___ dated: _____ No. ___ dated: _____

BID SCHEDULE

Base Bid Schedule - The Bidder will complete the Work and accept as full payment, for the Work items listed, the following Unit Prices and/or Item Bid Prices, as applicable:

Base Bid Item No.	Bid Quantity	Bid Quantity Units	Description	Unit Price	Item Bid Price
1	1	Lump Sum	Pre-Construction Submittals and Permits		
2	1	Lump Sum	Mobilization, Temporary Facilities, and Demobilization		
3	3	1 UST	Underground Storage Tank Removal, Cleaning, Loading, Transportation, and Disposal		
4	5,500	Ton	Excavation, Loading, Transportation and Disposal of Non-hazardous Petroleum Contaminated Soils		
5	1	Lump Sum	Remove, Recycle, and Replace City of Detroit Public Sidewalk, Approaches, Curbs, and Green Space		
6	10,000	Gallon	Non-hazardous Infiltration Water Removal, Transportation, and Disposal		
7	10,000	Gallon	Non-hazardous UST Fluids Removal, Transportation, and Disposal		
8	5,500	Ton	Provide, Place, and Compact MDOT Class II backfill sand		
9	1	Lump Sum	Site Restoration Activities		
10	6	Conduit	Cut & cap utility conduit, less than 12-inches diameter		
11	2	Conduit	Cut & cap utility conduit, greater than 12-inches and less than 24-inches diameter		
12	-	-	Provisionary Allowance	\$10,000.00	\$10,000.00
TOTAL (This amount should equal the Base Bid amount on the Bid Summary Form)					\$

Base Bid (Sum of Item Bid Prices for all Base Bid Items):

_____ Dollars \$ _____ (in figures)
 (use words)

Schedule of Alternates - The Bidder will complete (or deduct from the Contract) the parts of the Work designated by the Alternates that follow and accept in full payment (or allow in full credit) for those parts of the Work the following Item Bid Prices:

Alternate Item No.	Bid Quantity	Description	Unit Price	Item Bid Price

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
State Facilities Administration
Design & Construction Division

**Qualified Disabled Veteran (QDV)
Business Representation**

'Qualified Disabled Veteran,' means a business entity that is 51% or more owned by one or more veterans with a service-connected disability.

'Qualified Disabled,' means a business entity that is 51% or more owned by one or more with a service-connected disability.

The vendor represents that it IS _____, a qualified disabled veteran.

The contractor represents and warrants that the company meets the above (when checked) and has attached supporting documentation per the following:

Each bid requesting the Qualified Disabled Veterans (QDV) preference, in accordance with Public Act 22 of 2010, MCL 18.1241.3 shall include a DD214 Proof of Service and Discharge, a Veterans Administration rating decision letter, proof of disability (if the disability is not indicated on the DD214), and appropriate legal documents setting forth the 51% natural persons QDV ownership.

Fraudulent Certification as a Qualified Disabled Veteran may result in debarment under MCL 18.264.

Certification of a Michigan Based Business

(Information Required Prior to Contract Award for Application of State Reciprocity Provisions)

To qualify as a Michigan Based Business:

Vendor must have, during the 12 months immediately preceding this bid deadline:

or

If the business is newly established, for the period the business has been in existence, it has:

(Check all that apply):

- Filed a Michigan single business tax return showing a portion, or all the income tax base allocated or apportioned to the State of Michigan pursuant to the Michigan Single Business Tax Act, 1975 PA 228, MCL 208.1 – 208.145: or
- Filed a Michigan income tax return showing income generated in or attributed to the State of Michigan; or
- Withheld Michigan income tax from compensation paid to the bidder's owners and remitted the tax to the Department of Treasury; or

I certify that I **have personal knowledge** of such filing or withholding, that it was more than a nominal filing for the purpose of gaining the status of a Michigan business, and that it indicates a significant business presence in the state, considering the size of the business and the nature of its activities.

I authorize the Michigan Department of Treasury to verify that the business has or has not met the criteria for a Michigan business indicated above and to disclose the verifying information to the procuring agency.

Bidder shall also indicate one of the following:

- Bidder qualifies as a Michigan business (provide zip code: _____)
- Bidder does not qualify as a Michigan business (provide name of State: _____).
- Principal place of business is outside the State of Michigan, however service/commodity provided by a location within the State of Michigan (provide zip code: (_____)).

Fraudulent Certification as a Michigan business is prohibited by MCL 18.1268 § 268. A BUSINESS THAT PURPOSELY OR WILLFULLY SUBMITS A FALSE CERTIFICATION THAT IT IS A MICHIGAN BUSINESS OR FALSELY INDICATES THE STATE IN WHICH IT HAS ITS PRINCIPAL PLACE OF BUSINESS IS GUILTY OF A FELONY, PUNISHABLE BY A FINE OF NOT LESS THAN \$25,000 and subject to debarment under MCL 18.264.

BID BOND

BID SUBMITTED ON the _____ day of _____, 20____.

Bid Security is in the form of a Bid Bond _____ Bid Bond form has been duly executed _____; or

A Bank Certified or Cashier's check ___ or Money Order ___ is attached to this page ____ (If Bid Security is by Check or Money Order, the original check or money order must be delivered to the issuing office before Bid Due Time. ALL other SIGMA bid submittals are also still to be made).

If the Bidder is an Individual:

Name of Individual: _____

Name & Title of Person Authorized to sign: _____

Signature: _____
(If not the Individual, Attach Power of Attorney) Date

Doing Business as: _____

Business Address: _____

County of registration _____

Telephone: _____ FAX: _____

If the Bidder is a Partnership:

By: _____
(True Name of the Partnership)

Partner Authorized to Sign _____ Date

Signature: _____
(Attach evidence of Authority to sign) Date

Business Address: _____

County of registration _____

Telephone: _____ FAX _____

If the Bidder is a Corporation:

By: _____
(Legal Corporation Name)

Name & Title of Authorized Officer: _____

Signature: _____
(Attach evidence of Authority to sign) Date

Name & Title of Officer Attesting: _____

Signature: _____ Date

Business Address: _____

Telephone: _____ FAX _____

(State of Incorporation): _____

If The Bidder is A Joint Venture: JOINT VENTURE SIGNATURES MUST BE AS PROVIDED IN INSTRUCTIONS TO BIDDERS. EACH JOINT VENTURER SIGNING THE BID MUST SIGN IN THE MANNER INDICATED FOR AN INDIVIDUAL, A PARTNERSHIP OR A CORPORATION. IF MORE THAN TWO JOINT VENTURERS OF THE SAME TYPE ARE INCLUDED, USE ADDITIONAL PAGES. JOINT VENTURE STATE OF INCORPORATION _____ OR COUNTY OF REGISTRATION _____

POST-BID SUBMITTALS

The PSC will request this submittal after bid opening. Complete and submit these items within two business days after the request.

BIDDER'S EXPERIENCE MODIFICATION RATING (EMR) _____

Attach letter of explanation if the Bidder does not have an EMR.

PROPOSED PROJECT SUPERINTENDENT _____

Attach brief resume or list of similar successful projects.

LIST OF SIMILAR PROJECTS COMPLETED BY THE BIDDER

Please list at least three completed projects of similar size and complexity to the project being bid, with reference contact information

REFERENCE # _____

Owner: _____

Project/Contract Name: _____

Location of Project/Contract: _____

Contract Price: _____ Project/Contract Started: _____ Completed: _____

Owner's Representative (Name and Telephone): _____

Scope of Project/Contract: _____

REFERENCE # _____

Owner: _____

Project/Contract Name: _____

Location of Project/Contract: _____

Contract Price: _____ Project/Contract Started: _____ Completed: _____

Owner's Representative (Name and Telephone): _____

Scope of Project/Contract: _____

REFERENCE # _____

Owner: _____

Project/Contract Name: _____

Location of Project/Contract: _____

Contract Price: _____ Project/Contract Started: _____ Completed: _____

Owner's Representative (Name and Telephone): _____

Scope of Project/Contract: _____

POST BID SUBMITTALS: LIST OF SUBCONTRACTORS

The Apparent Low Bidder shall nominate for each Division of Specification and/or trade category, the Subcontractor to be awarded Sub-agreements, including the apparent Low Bidder if work is to be self-performed. Nominated subcontractors shall not be removed, replaced, or added to except by written request for good reason, subject to Owner acceptance.

Division, Specification Section and/or Trade	Nominated Subcontractor(s)	Amount of Subcontract
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____

The undersigned Apparent Low Bidder _____ certifies that all the information and data furnished in this List of Subcontractors are current, accurate and complete as of the date stated below.

Signed by: _____ Name _____ Title _____

on this _____ day of _____, 20_____.

PERFORMANCE BOND
SURETY COMPANY REFERENCE No. _____

That "the **Contractor**," _____, a corporation ____, individual ____, partnership ____, joint venture __ of the State of _____, qualified to do business in the State of Michigan, as Principal, and "the Surety," _____, of the State of _____, as surety, are held and bound unto the State of Michigan, "the **Owner**," as Obligee, in the amount of _____ Dollars (\$ _____), for the payment of which the **Contractor** and Surety bind themselves, their respective heirs, successors, legal representatives and assigns, jointly and severally, in compliance with 1963 PA 213, as amended, MCL 129.201 et seq.

The **Contractor** has entered into "the Contract" with the **Owner** for _____, "the Work," covered by the Contract Documents, which are incorporated into this Performance Bond by this reference.

If the **Contractor** faithfully performs and fulfills all the undertakings, covenants, terms, conditions, warranties, indemnifications and agreements of the Contract Documents within the Contract Time (including any authorized changes, with or without notice to the Surety) and during the Correction Period, and if the **Contractor** also performs and fulfills all the undertakings, covenants, terms, conditions, warranties, indemnifications and agreements of any and all duly authorized modifications of the Contract Documents, then THIS OBLIGATION IS VOID, OTHERWISE TO REMAIN IN FULL FORCE AND EFFECT.

A. No change in Contract Price or Contract Time, "or equal" or substitution or modification of the Contract Documents (including addition, deletion, or other revision) releases the Surety of its obligations under this Section 00610 Performance Bond. The Surety expressly waives notice of any such change in Contract Price or Contract Time, "or equal" or substitution or

modification of the Contract Documents (including addition, deletion, or other revision).

B. This Performance Bond must be solely for the protection of the **Owner** and its successors, legal representatives or assigns.

C. It is the intention of the **Contractor** and Surety that they must be bound by all terms and conditions of the Contract Documents (including, but not limited to General Conditions and this Performance Bond). However, this Performance Bond is executed pursuant to 1963 PA 213, as amended, MCL 129.201 et seq., and if any provision(s) of this Performance Bond is/are illegal, invalid, or unenforceable, all other provisions of this Performance Bond must nevertheless remain in full force and effect, and the **Owner** must be protected to the full extent provided by 1963 PA 213, as amended, MCL 129.201 et seq.

IMPORTANT: The Surety must be authorized to do business in the State of Michigan by the Department of Licensing and Regulatory Affairs, must be listed on the current U.S. Department of the Treasury Circular 570, and, unless otherwise authorized by the **Owner** in writing, must have at least an A- Best's rating and a Class VII or better financial size category per current A. M. Best Company ratings.

Name, Address and Telephone of the Surety:

Address and Telephone of Agent, who is either a resident of, or whose principal office is maintained in, the State of Michigan

Signed and sealed this _____ day of _____, 20_____.

THE **CONTRACTOR**: (Print Full Name and Sign) By: _____

WITNESS _____ Name & Title: _____
Telephone No. _____

THE SURETY: (Print Full Name and Sign) Agent: _____

WITNESS _____ Attorney-in-Fact: _____
Telephone No. _____

Email: _____

PAYMENT BOND

SURETY COMPANY REFERENCE No. _____

“the **Contractor**,” _____, a corporation ____, individual ____, partnership ____, joint venture ____ of the State of _____, qualified to do business in the State of Michigan, as Principal, and “the **Surety**,” _____, of the State of _____, as surety, are held and bound unto the State of Michigan, “the **Owner**,” as Obligee, in the amount of _____ Dollars (\$ _____), for the payment of which the **Contractor** and Surety bind themselves, their respective heirs, successors, legal representatives and assigns, jointly and severally, in compliance with 1963 PA 213, as amended, MCL 129.201 et seq.

The **Contractor** has entered into “the Contract” with the **Owner** for _____, “the Work,” covered by the Contract Documents, which are incorporated into this Payment Bond by this reference.

If the **Contractor** promptly pays all claimants supplying labor or materials to the **Contractor** or to the **Contractor's** Subcontractors in the prosecution of the Work, then THIS OBLIGATION IS VOID, OTHERWISE TO REMAIN IN FULL FORCE AND EFFECT.

A. All rights and remedies on this Payment Bond are solely for the protection of all claimants supplying labor and materials to the **Contractor** or the **Contractor's** Subcontractors in the prosecution of the Work and must be determined in accordance with Michigan Law.

B. No change in Contract Price or Contract Time, “or equal” or substitution or modification of the Contract Documents (including addition, deletion, or other revision) must release the Surety of its obligations under this Payment Bond. The Surety

hereby expressly waives notice of any such change in Contract Price or Contract Time, “or equal” or substitution or modification of the Contract Documents (including addition, deletion, or other revision).

C. It is the intention of the **Contractor** and Surety that they must be bound by all terms and conditions of the Contract Documents (including, but not limited to this Payment Bond). However, this Payment Bond is executed pursuant to 1963 PA 213, as amended, MCL 129.201 et seq., and if any provision(s) of this Payment Bond is/are illegal, invalid, or unenforceable, all other provisions of this Payment Bond must nevertheless remain in full force and effect, and the **Owner** must be protected to the full extent provided by 1963 PA 213, as amended, MCL 129.201 et seq.

IMPORTANT: The Surety must be authorized to do business in the State of Michigan by the Department of Licensing and Regulatory Affairs, must be listed on the current U.S. Department of the Treasury Circular 570, and, unless otherwise authorized by the **Owner** in writing, must have at least an A- Best’s rating and a Class VII or better financial size category per current A. M. Best Company ratings.

Name, Address and Telephone of the Surety:

Address and Telephone of Agent, who is either a resident of, or whose principal office is maintained in, the State of Michigan

Signed and sealed this _____ day of _____, 20_____.

THE **CONTRACTOR**: (Print Full Name and Sign) By: _____

WITNESS _____ Name & Title: _____
Telephone No. _____

THE **SURETY**: (Print Full Name and Sign) Agent: _____

WITNESS _____ Attorney-in-Fact: _____
Telephone No. _____

Email: _____

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Topographic Location Map (SME)

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FIGURE NOS.

Figure 1

Figure 2

Figure 3

DIVISION 00

BIDDING REQUIREMENTS AND CONTRACT CONDITIONS

SECTION 00010 PRE-BID INFORMATION

- 1. Invitation to Bid (ITB)** – Your firm is invited to submit a Bid. The State of Michigan as the Owner will receive **bids electronically through the SIGMA VSS website at <https://sigma.michigan.gov/webapp/PRDVSS2X1/AltSelfService>**, for Remedial Investigation at LUST Site, 12161 Dexter Ave., (parcel no. 14006225) Detroit, Michigan, until 2:00 p.m., ET, on July 17, 2024. The State reserves the right to cancel this Invitation to Bid (ITB) or change the date and time for submitting Bids by announcing same at any time before the established date and time for Bid opening. Bids must remain open for acceptance by the Owner for no less than the Bid hold period. Contractor may agree to extend the Bid hold period. However, any such extension must be based upon no increase in the Bid Price and/or Contract Time.
- 2. Work Description** – The Work, Remedial Investigation at LUST Site, DTMB File No. 761/24161.IND includes, but is not necessarily limited to: Underground storage tank removal and disposal, contaminated soil excavation and disposal, contaminated water removal and disposal, supporting post-excavation soil sampling, excavation backfilling and site surface restoration, and submittal of project record documentation.

The site is located 12161 Dexter Ave., Detroit, Wayne County, Michigan as shown on the Drawings.

- 3. Bidding Documents** – Sets of Bidding Documents may be obtained at <https://sigma.michigan.gov/webapp/PRDVSS2X1/AltSelfService>.

- 4. Bid Security** – Each Bid must enclose a duly executed Bid Security, in the amount of five percent (5%) of the Bidder's Base Bid, paid to the "State of Michigan" in the form of a certified or cashier's check or money order drawn upon a bank insured by an agency of the Federal Government, or a bid bond signed by both the Contractor and authorized surety company. *If Bid Security is by check or money order, such certified or cashier's check or money order must be delivered in original copy before the Bid Due Time to:*

State Facilities Administration
Design & Construction Division
3111 W. St. Joseph Street
Lansing, Michigan 48917

All other Bid information must be submitted via SIGMA as per standard bidding procedure

- 5. Pre-Bid Conference** – A mandatory pre-bid conference will be held at 12161 Dexter Ave., Detroit, Michigan on July 1, 2024 at 10:00 am ET. A tour will be held immediately following the pre-bid conference. All prospective Bidders are required to attend the tour, if held. Other parties interested in the Work are encouraged to attend the tour. Addenda may be issued, in response to issues raised at the pre-bid conference and tour, or as the Owner and/or Professional may otherwise consider necessary.

The purpose of the pre-bid conference and inspection is to answer questions and provide an inspection tour of the Project site at the scheduled time on the day of the meeting. A representative will be available to assist the Contractors. Other inspection visits may be allowed if needed. Individuals needing special services to fully participate in the meeting due to a disability may contact [Julie Barton](mailto:Julie.Barton@aktpeerless.com) at [AKT Peerless, \(313\) 962-9353](tel:3139629353).

FOR CORRECTIONAL FACILITIES ONLY: All contractor/vendor representatives attending a Pre-Bid Walk Through Meeting must submit a Vendor/Contractor LEIN Request five business days prior to the meeting date, (LEIN Request For CAJ-1037 attached to Bid posting). Send the LEIN Request form, filled out and signed, by email to SmithD76@michigan.gov & FrostS1@michigan.gov. The email "Subject" must include (Facility Name, Project Name, Date & Time of Pre-Bid Walk Through Meeting).

- 6. SIGMA VENDOR NUMBER:** If you are bidding a State job for the first time, visit the State of Michigan SIGMA website, <https://sigma.michigan.gov/webapp/PRDVSS2X1/AltSelfService>, and follow the "SOM VSS User Guide for New Vendors" instructions, located under Forms and Reference Documents. Registration is required for bid submission. **Do not wait until the last minute to submit a proposal**, as the SIGMA system requires the creation of an account and entry of certain information, in addition to uploading and submitting the materials. The SIGMA system **will not** allow a proposal to be submitted after the proposal deadline, even if a portion of the proposal has been updated.

Questions on how to submit information or how to navigate in the SIGMA VSS system can be answered by calling **(517) 373-4111 or (888) 734-9749**.

- 7. Equal Employment Opportunity** – Covenants to not discriminate in employment by Contractors, Subcontractors and Suppliers required by Law are contained in Instructions to Bidders and General Conditions and are applicable to the Work and any Sub-agreement under the Contract.
- 8. Contract Times** – The Contract Times and the associated liquidated damages are specified in the Contract.
- 9. Contact Person** – All requests or inquiries concerning the Bidding Documents, or the Work must be addressed to: Julie Barton, AKT Peerless (313) 962-9353; bartonj@aktpeerless.com. Questions will be accepted until July 5, 2024 at 2:00 pm ET.

10. Award – Subject to any agreed extension of the period for holding Bids, Bids must remain valid for acceptance by the Owner for 60 Calendar Days after the date of Bid opening. In addition, the Owner expressly reserves the right, within the Owner's sole discretion, to reject any or all Bids, to waive any irregularities, to issue post-Bid Addenda and re-bid the Work without re-advertising, to re-advertise for Bids, to withhold the award for any reason the Owner determines and/or to take any other appropriate action.

11. Performance and Payment Bonds – A performance bond and a payment bond are required for all contracts over \$50,000.00.

END OF SECTION 00010

SECTION 00100 INSTRUCTIONS TO BIDDERS

1. **PREPARATION OF BID:** Execute Bid fully and properly. Bid Summary Form (DTMB -0401D) and Bid Form Attachments must be used and completely filled out for the Bid to be considered responsive and meeting the requirements of the contract solicitation. All Bid prices must be printed or typed in both words and figures.
2. **BID CHECKLIST:** Submit Bid Summary Form with original signatures plus Bid Form Attachments in accordance with the electronic bidding procedures on the SIGMA VSS website.

A complete Bid will consist of the following forms, which are included immediately following the Bid Summary Form:

Bids SUBMIT THESE Bid Forms and Bid Form Attachments

- All Bids **Signed** and completed Bid Summary Form (DTMB-0401D).
- Bid Schedule.
- Qualified Disabled Veteran (QDV) Business Representation.
- Bid Security in the amount of 5% of Base Bid Price.

If Bid Security is by check or money order, such certified or cashier's check or money order must be delivered in original copy before the Bid Due Time to:

State Facilities Administration
Design & Construction Division
3111 W. St. Joseph Street
Lansing, Michigan 48917

All other Bid information must be submitted via SIGMA as per standard bidding procedure

- Signature Authorization or copy of the partnership agreement if signed by all partners.
- Byrd Anti-Lobbying Certification (Only when Federal Provisions Addendum is included)
- Other Forms
- Over \$50K Forms listed under All Bids.
- Payment and Performance Bond (upon issuing the Notice of Award).
- Over \$100K Forms listed under All Bids.
- Certification of a Michigan Based Business.
- Payment and Performance Bond (upon issuing the Notice of Award).
- Over \$250K Forms listed under All Bids.
- Certification of a Michigan Based Business.
- Payment and Performance Bond (upon issuing the Notice of Award).

Apparent Low Bidders ONLY (upon request from the Professional)

- Experience Modification Rating (EMR), or a letter stating why the Bidder does not have one.
- Identification of the proposed project superintendent, with a resume or list of similar projects handled by that individual.
- A list of at least three (3) projects completed by the Bidder, within the last three (3) years of similar size and complexity, with contact information for references for each.
- A list of nominated sub-contractors, including proposed self-performed categories, for each Division/Trade/etc.

3. **BID SUBMISSION:** Bids must be submitted electronically through the SIGMA VSS website at <https://sigma.michigan.gov/webapp/PRDVSS2X1/AltSelfService>.

4. **BID GUARANTEE:** Each proposal must be accompanied by either a bank certified or cashier's check on an open, solvent bank or a bid bond with an authorized surety company (the surety must be listed on the current U.S. Department of the Treasury Circular 570) in the amount of five percent of the base bid payable to the State of Michigan, as a guarantee of good faith. If the successful Bidder fails to furnish satisfactory bonds and insurance within fifteen Calendar Days after Notice of Award, such

guarantee must be forfeited to the State as liquidated damages. *If Bid Security is by check or money order, such certified or cashier's check or money order must be delivered in original copy before the Bid Due Time to the Issuing Office.* The bid security, exclusive of bid bonds, of all unsuccessful Bidders will be returned when an award is made or upon substitution of a bid bond. The bid security of the successful Bidder will be returned when the performance bond and labor and material bond are approved.

5. Left Blank Intentionally.

6. MICHIGAN BASED BUSINESS CERTIFICATION: All Bidders submitting Bids in excess of \$100,000.00 must complete the Certification of Michigan Based Business. This information will determine if a Bidder qualifies as a "Michigan" business for purposes of application of reciprocity where applicable.

7. POST-BID SUBMITTAL: For all projects, the Professional may request a Post-Bid Submittal from the Apparent Low Bidders. The Apparent Low Bidders must submit to the Professional, within **two** Business Days after receipt of the Professional's request,

- Experience Modification Rating (EMR), or a letter stating why the Bidder does not have one.
- Identification of the proposed project superintendent with a resume or list of similar projects managed by that individual.
- A list of at least three (3) projects completed by the Bidder, within the last three (3) years of similar size and complexity, with contact information for references for each.

Failure to provide the submittals may disqualify the Bid.

8. SIGNATURES: All Bids, notifications, claims, and statements must be signed as follows:

- (a) **Corporations:** Signature of official must be accompanied by a certified copy of the Resolution of the Board of Directors authorizing the individual signing to bind the corporation.
- (b) **Partnerships:** Signature of one partner must be accompanied by a signed copy of the legal document (e.g., Power of Attorney or partnering agreement) authorizing the individual signing to bind all partners. If Bid is signed by all partners, no authorization is required.
- (c) **Individual:** No authorization is needed. Each signature must be witnessed.

9. BID PRICES: The Bidder's Base Bid and Alternate Bid prices must include, and payment for completed Work will compensate in full for: all services, obligations, responsibilities, management, supervision, labor, materials, devices, equipment, construction equipment, general conditions, permits, patent fees and royalties, testing, inspection and approval responsibilities, warranties, temporary facilities, small tools, supplies, Bonds, insurance, taxes, mobilization, close-out, overhead and profit and all connections, appurtenances and any other incidental items of any kind or nature, as are necessary to complete the Work, in a neat, first quality, workmanlike and satisfactory manner in accordance with the Drawings and Specifications and as otherwise required to fulfill the requirements of the Bidding Documents. For each Cash Allowance item, the Bidder must include, within the Bid, all labor costs, construction equipment costs, insurance and Bond premiums and other general conditions costs and Fees (Bidder's and Subcontractors') to complete Work associated with the material, equipment, or other designated item to be furnished under the Cash Allowance. For each Provisionary Allowance, the Bidder must include, within the Bid, insurance, premiums (not recoverable as labor burden) and Bond premiums required to complete Work that may be ordered under a Provisionary Allowance.

10. INSPECTION OF BIDDING DOCUMENTS AND SITE CONDITIONS: The Bidder must carefully review and inspect all documents referenced and made part of this ITB, site conditions, all applicable statutes, regulations, ordinances, and resolutions addressing or relating to the goods and services under this contract. Failure to do so or failure to acquire clarifications and answers to any discovered conflicts, ambiguities, errors, or omissions in the Bidding Documents will be at the Bidder's sole risk.

11. SAFETY REQUIREMENTS AND LAWS: The Bidder awarded the Contract must comply with all applicable federal, state, and local Laws including health and safety regulations, environmental protection, permits and licensing.

12. INTERPRETATIONS AND ALTERATIONS TO THE BID AND BIDDING DOCUMENTS: All requests for clarification or interpretation of the Bidding Documents, all proposals for any modifications to the Bidding Documents, all requests for information and all other questions or inquiries about the Bidding Documents and/or the Work shall be submitted in writing to the Contact Person identified in the Bid Documents. Requests or inquiries received less than seven Calendar Days before the date of Bid opening will be answered only if (a) the response can be given through an Addendum made available at least seventy-two hours before Bid opening (counting Business Days only), (b) the Bid opening is postponed by Addendum, or (c) the Work is rebid without readvertising following the issuance of post-Bid Addenda.

Bidders must not rely upon any oral statements or conversations regarding interpretations, clarifications, corrections, additions, deletions or other revisions or information to the Bidding Documents. Any addition, limitation or provision made with or attached to the Bid may render it non-responsive and/or irregular and be a cause for rejection. The Owner reserves the right to issue a post-Bid Addendum after opening the Bids and set a new date for the receipt and opening of sealed Bids. The Bidder acknowledges that any quantities of Unit Price Work given in this ITB are approximate only and payments will be made only for actual quantities of Unit Price Work completed in accordance with the Contract Documents.

13. MODIFICATION OF BID: The entire bid must be resubmitted on the SIGMA VSS website.

- 14. BID WITHDRAWAL:** Except for timely filed claims of mathematical or clerical errors granted by the State, no Bid may be withdrawn within sixty Calendar Days after the Bid Opening time and date or before the Bid expiration date without forfeiting Bid security. The request to withdraw a Bid due to error must be submitted in writing along with the supporting documents within two Business Days after the date of Bid Opening. The claim must describe in detail the error(s), include a signed affidavit stating the facts of the alleged error(s) and request that the Bidder be released from its Bid. The review of the claim and its supporting documents by the State is only for the purpose of evaluating the Bidder's request and must not create duty or liability on the State to discover any other Bid error or mistake. The sole liability of any Bid error or mistake rests with Bidder.
- 15. OBJECTION TO THE AWARD:** A Bidder may file a written protest with the Director-DCD to object to the Apparent Low Bidder. This objection must be filed within seven Calendar Days after the date of Bid opening and must describe in detail the basis for the protest and request a determination. The Director-DCD will either dismiss or uphold the protest and notify the protestor within ten Calendar Days after receipt of the written protest.
- 16. BID IRREGULARITIES:** The following irregularities on any Bid Form or Bid Form Attachment must be resolved as follows:
- between SIGMA entry and signed Bid Summary attachment, the signed Bid Summary attachment will be used.
 - between words and figures, the words must be used.
 - between any sum, computed by the Bidder, and the correct sum, the sum computed by the Bidder must be used.
 - between the product, computed by the Bidder, of any quantity and Bid Unit Price and the correct product of the Unit Price and the quantity of Unit Price Work, the product extended by the Bidder must be used.
 - between a stipulated Allowance and the amount entered, the Allowance must be used.
 - any mobilization pay item exceeding the maximum specified must be ignored and the Bid must remain unchanged.
 - if any Bidder fails or neglects to bid a Unit Price for an item of Unit Price Work but shows a "Bid Price" for that item, the missing unit price must be computed from the respective quantity and the Item Bid Price shown.
 - if any Bidder fails or neglects to show a "Bid Price" for an item of Unit Price Work but bids a unit price, the missing Bid Price must remain as "zero"; and
 - if any Bidder fails or neglects to enter a Bid Price in both words and figures, the Bid Price printed or typed, whether in words or figures, must be used.
- 17. CERTIFICATION:** The bidder certifies to the best of its knowledge and belief that, within the past three (3) years, the bidder, an officer of the bidder, or an owner of a 25% or greater interest in the bidder:
- Has not been convicted of a criminal offense incident to the application for or performance of a contract or subcontract with the State of Michigan or any of its agencies, authorities, boards, commissions, or departments.
 - Has not had a felony conviction in any state (including the State of Michigan).
 - Has not been convicted of a criminal offense which negatively reflects on the bidder's business integrity, including but not limited to, embezzlement, theft, forgery, bribery, falsification, or destruction of records, receiving stolen property, negligent misrepresentation, price-fixing, bid rigging, or a violation of state or federal anti-trust statutes.
 - Has not had a loss or suspension of a license or the right to do business or practice a profession, the loss or suspension of which indicates dishonesty, a lack of integrity, or a failure or refusal to perform in accordance with the ethical standards of the business or profession in question.
 - Has not been terminated for cause by the Owner.
 - Has not failed to pay any federal, state, or local taxes.
 - Has not failed to comply with all requirements for foreign corporations.
 - Has not been debarred from participation in the bid process pursuant to Section 264 of 1984 PA 431, as amended, MCL 18.1264, or debarred or suspended from consideration for award of contracts by any other State or any federal Agency.
 - Has not been convicted of a criminal offense or other violation of other state or federal law, as determined by a court of competent jurisdiction or an administrative proceeding, that in the opinion of DTMB indicates that the bidder is unable to perform responsibly or which reflects a lack of integrity that could negatively impact or reflect upon the State of Michigan, including but not limited to, any of the following offenses under or violations of:
 - The Natural Resources and Environmental Protection Act, 1994 PA 451, MCL 324.101 to 324.90106.
 - A persistent and knowing violation of the Michigan Consumer Protection Act, 1976 PA 331, MCL 445.901 to 445.922.
 - A finding that the bidder failed to pay the wages and/or fringe benefits as required by applicable law.
 - Repeated or flagrant violations of 1978 PA 390 MCL 408.471 to 408.490 (law relating to payment of wages and fringe benefits).
 - A willful or persistent violation of the Michigan Occupational Health and Safety Act, 1974, PA 154, MCL 408.10001 to 408.1094, including: a criminal conviction, repeated willful violations that are final orders, repeated violations that are final orders, and failure to abate notices that are final orders.
 - A violation of federal or state civil rights, equal rights, or non-discrimination laws, rules, or regulations.
 - Been found in contempt of court by a Federal Court of Appeals for failure to correct an unfair labor practice as prohibited by Section 8 of Chapter 372 of the National Labor Relations Act, 29 U. s. C. 158 (1980 PA 278, as amended, MCL 423.321 et seq).
 - Is not an Iran-Linked Business as defined in MCL 129.312.

A false statement, misrepresentation, or concealment of material facts on this certification may be grounds for rejection of this proposal or termination of the award and may be grounds for debarment.

- 18. REJECTION OF BID:** The Bidder acknowledges the right of the Owner to reject any Bids and to waive any informality, defects or irregularity in any Bid received. In addition, the Bidder recognizes the right of the Owner to reject a Bid if:
- the Bid is in any way incomplete or irregular.
 - the Bidder, Subcontractor or Supplier is not responsible as determined by the Owner.
 - the Bidder's performance as a Contractor was unsatisfactory under a prior Contract with the Owner for the construction, repair, modification, or demolition of a facility with the Owner, or under any other Contract, which was funded, directly or indirectly, by the Owner.
 - there are reasonable grounds for believing that collusion or unlawful agreements exists between any Bidders, that a Bidder is interested in more than one Bid, or that the Bid is not genuine.
 - the Bid exceeds the funds available.
- 19. MATERIALS AND EQUIPMENT SUBSTITUTION:** Any Bidder wishing to use manufacturers or materials other than those specified must submit a written request to the Professional not later than seven days before due date for Bids. Request must be accompanied by product data to permit evaluation and comparison with specified products or materials. The Person submitting the request will be responsible for its prompt delivery. The Professional and the Owner will examine and evaluate the product data and if found acceptable, an Addendum will be issued and mailed or delivered to each Person who has received a set of Drawings and Specifications. All Addenda issued must be made a part of the Contract requirements. Contractor will be responsible for any extra work and expense incurred to satisfactorily and completely incorporating each substitute product into the Project.
- 20. MICHIGAN PRODUCTS AND RECYCLED PRODUCTS:** All Contractors and Suppliers are encouraged to provide Michigan-made products and/or recycled products and/or green products and/or environmentally friendly products whenever possible where price, quality, and performance are equal to, or superior to, non-Michigan products and the requirements of the Contract Documents. The Contractor will be required to use alternatives to landfills for waste disposal such as reuse or recycle of asphalt, bricks, concrete, masonry, plastics, paint, glass, carpet, metals, wood, drywall, insulation, and any other waste materials to the extent practical.
- 21. PRE-AWARD PRODUCT SUBMITTALS:** If requested, the Apparent Low Bidders must submit a summary of preliminary technical data on each product listed in the Schedule of Values and Submittals section. The Apparent Low Bidders will furnish this summary data to the Professional within forty-eight hours of the Bid Opening. These submittals will be used to evaluate the Bid before the award. Failure to provide the submittals may disqualify the Bid.
- 22. CONTRACT AND CONTRACT AWARD:** The Owner intends to award a Contract to the responsive and responsible best value bidder, except as provided below relative to veteran's preference.
- 22.1 Determination of the lowest three Bidders shall be based on the sum of the Base Bid and any additive and deductive Alternates the Owner accepts, in the order in which they are listed only. The Owner will accept an Alternate only if all other previously listed Alternates are also accepted unless acceptance by the Owner of Alternates in a different order does not affect determination of the lowest three bidders in any way.
- 22.2 The bids will be evaluated for best value based on price and qualitative components by comparing the qualitative components of the three lowest responsive and responsible Bidders. The comparison may also include other Bidders whose bids are within 10% of the lowest responsive and responsible Bidder.
- 22.3 If a Qualified Disabled Veteran meets the requirements of the contract solicitation, provides acceptable responses to both Part One and Part Two of the Best Value Construction Bidder Evaluation to achieve a Best Value recommendation and with the veteran's preference is the lowest responsive, responsible, best value Bidder, the Owner will award the contract to the Qualified Disabled Veteran bidder. A determination as to whether the requirements of the bid solicitation have been met will be based solely on the Owner's and Professional's evaluation of the Bid Summary, Bid Attachments, Bidder-provided documents, and interview.
- 22.4 For the purpose of evaluating and determining the low responsive bid, 10% of the lowest responsive bid (the bid that would otherwise receive the contract award if the preference were not being considered) will be deducted from all QDV bids. If the low responsive QDV bid, less the 10% preference, is less than the lowest responsive bid, then the QDV bid will be declared the official low responsive bid. The original QDV bid amount will be the basis of the contract award.

Example:

Lowest Responsive Bid	\$100,000
Lowest Responsive QDV Bid	\$109,000
Preference (10% of the Lowest Responsive Bid)	\$ 10,000
Lowest Responsive QDV Bid Less Preference	\$ 99,000 (\$109,000 - \$10,000)
Official Low Responsive Bid	\$109,000

22.5 The Apparent Low Bidders will be evaluated for responsiveness and responsibility based on the following:

- Compliance with the bid specifications and requirements.
- The Bidder's financial resources.
- The Bidder's technical capabilities.
- The Bidder's technical experience.
- The Bidder's past performance.
- The Bidder's insurance and bonding capacity.
- The Bidder's business integrity.

Some qualitative components that may be evaluated are:

- Technical approach.
- Quality of proposed personnel.
- Management plans.
- The Bidder's safety statistics and performance.
- Schedule efficiency and timeliness.
- Quantity of proposed personnel (not including subcontracted labor).

22.6 For contracts under \$250,000, best value will primarily be based on the lowest responsive and responsible bid.

23. CONTRACT TIME; LIQUIDATED DAMAGES: Work of all trades as specified in the Contract Documents must be completed in 80 calendar days from the date of Notice-to-Proceed except for minor replacement, correction, or adjustment items which do not interfere with the complete operation and utilization of all parts of the Contract Work. This Contract Time is of the essence and liquidated damages for each Calendar Day that expires after this Substantial Completion of the entire Work must be in the amount of \$1500.00. Liquidated damages are not a penalty, are cumulative and represent a reasonable estimate of the Owner's extra costs and damages, which are difficult to estimate with accuracy in advance.

24. MOBILIZATION: If used in the Specifications/Bid schedule, all the up-front costs incurred by the Contractor must be covered by the mobilization. The costs to establish temporary site offices, to obtain required permits for commencing the Work and for bonds and insurance premiums are examples of costs to the Contractor that are covered by mobilization pay item. This cost must not exceed four percent (4%) of the Base Bid, unless otherwise expressly provided in the Bidding Documents.

25. SOIL EROSION AND SEDIMENTATION CONTROL: All Work under this Contract must meet the storm water management requirements of the Project and comply with the applicable Soil Erosion and Sedimentation Control (SESC) rules and regulations and specific provisions for same within the Contract Documents. SESC measures will be monitored and enforced by the State Facilities Administration, or another authorized enforcing agency if so delegated, through the review of the Contractor's implementation plans and site inspections. State Facilities Administration or the Professional will notify the Contractor in writing of any violation(s) of the applicable SESC statutes and/or the corrective action(s) undertaken by the Owner and may issue stop work orders. State Facilities Administration has the right to assess a fine to the Contractor for noncompliance with the provisions of the Contract Documents and/or SESC regulations applicable to this Work and fines must be in addition to any other remediation costs or liquidated damages applicable to the Project and may exceed the value of the Contract.

26. PREVAILING WAGE: The Bidding Documents include either the attached Appendix III of prevailing rates of wages and fringe benefits for all classes of Construction Mechanics called for in the Bid and resulting Contract, if any, or the attached current prevailing wage determination issued by the U.S. Department of Labor, as applicable depending on the funding source(s).

END OF SECTION 00100

SECTION 00120 SUPPLEMENTARY INSTRUCTIONS

The provisions of this Section amend or supplement Section 00100 Instructions to Bidders and those other provisions of the Bidding Requirements that are indicated below. All other Bidding Requirements that are not so amended or supplemented remain in full force and effect.

Revise Article 25 as follows: All Work under this Contract must meet the storm water management requirements of the Project and comply with the applicable Soil Erosion and Sedimentation Control (SESC) rules and regulations and specific provisions for same within the Contract Documents. SESC measures will be monitored and enforced by the local enforcing agency (City of Detroit),

through the review of the Contractor's implementation plans and site inspections. The enforcing agency or the Professional will notify the Contractor in writing of any violation(s) of the applicable SESC statutes and/or the corrective action(s) undertaken by the Owner and may issue stop work orders. The enforcing agency has the right to assess a fine to the Contractor for noncompliance with the provisions of the Contract Documents and/or SESC regulations applicable to this Work and fines must be in addition to any other remediation costs or liquidated damages applicable to the Project and may exceed the value of the Contract.

END OF SECTION 00120

SECTION 00200 INFORMATION FOR BIDDERS

1. UNDERGROUND UTILITIES

Information or data about physical conditions of existing Underground Utilities, which have been used by the Professional in preparing the Bidding Documents, is shown, or indicated in the Drawings and technical Specifications and those Underground Utility drawings itemized immediately below. None available.

The Contractor is responsible for contacting Miss Dig or hiring a private utility locating company to locate and mark all underground utilities on the project site prior to commencing any work at the site.

2. PERMITS, APPROVALS, LICENSES AND FEES

2.1 If the Owner has secured or will secure any permits, approvals and licenses and has paid or will pay any associated charges and fees, any such permits, approvals and licenses are itemized in this paragraph: None.

2.2 If any permits, approvals, and licenses itemized above have been obtained by the Owner and the fees have been paid, copies of those permits, approvals, licenses, and corresponding fee receipts, are attached to this Section 00200 Information for Bidders.

Except for any permits, approvals, licenses, and fees identified above, the Contractor shall be responsible for all permits, approvals, licenses, and fees applicable to Work.

3. SEQUENCING REQUIREMENTS

Refer to the technical Specifications, including, but not limited to the General Requirements, for information, data, and criteria on sequences of Work restraints, construction, and maintenance of service to existing facilities, which, if provided, must govern the selection of Work sequences. Each Bidder must be responsible for any conclusions or interpretations the Bidder makes related to the selection of sequences and Means and Methods, based on the technical data made available, and/or those additional investigations or studies made or obtained by that Bidder.

4. SUBSURFACE CONDITIONS

In preparing the bidding documents, the PSC used the reports of explorations and tests of subsurface conditions itemized immediately below.

- Environmental Expanded Triage, dated February 21, 2023, prepared by SME

4.1 Information or data contained in those reports that may be properly considered Authorized Technical Data concerning subsurface conditions include (NOTE: All other information or data excluded from the list below represent Non-Technical Information or Data, interpretations, or opinions): None.

4.2 In preparing the bidding documents, the PSC has not used the following reports of explorations and tests of subsurface conditions itemized immediately below. None.

5. OTHER PHYSICAL CONDITIONS

5.1 The Drawings and technical Specifications and those drawings itemized immediately below contain information or data that have been used in the preparation of the Bidding Documents, and that may be properly considered Authorized Technical Data concerning physical conditions of existing surface and subsurface facilities.

- Environmental Expanded Triage, dated February 21, 2023, prepared by SME
- UST Registration Form dated January 24, 2023 prepared by EGLE
- Remedial Action Work Plan, dated May 20, 2024, prepared by AKT Peerless

5.2 The reference documents itemized immediately below have not been used in the preparation of the Bidding Documents and are available for review or purchase. Information and data contained in those reference documents, including, but not limited to dimensions, locations and conditions of existing surface and subsurface structures, roadways, piping, raceways, equipment, etc. may not accurately or reliably reflect actual conditions. Neither the Owner nor Professional warrants that this list identifies all existing relevant documents. None.

END OF SECTION 00200

SECTION 00700 GENERAL CONDITIONS

1. **Interpretations:** Any requests for clarifications or interpretations of the Contract Documents must be in writing to the Professional, who will issue written clarifications or interpretations as appropriate. If the Contractor believes that such clarification

or interpretation justifies an adjustment to the Contract Price/Time, the Contractor must promptly notify the Professional in writing before proceeding with the Work Involved.

- 1.1 **Standards:** The Contract Documents describe the entire Work. The provisions of the Contract Documents must govern over any standard specifications, manual or code of any technical society, organization, or association but, if lower than the standards set by any Law applicable to the Work or the Project, the higher standards must govern. The Contractor's responsibilities extend to cover Subcontractors and Suppliers if liable as a result of their actions or obligations.
- 1.2 **Contract Time Computation:** The time to complete the Work must be made in Calendar Days and must include both the first and last day. The first day is established by the Notice-to-Proceed.
- 1.3 **Technical Specifications and Priority:** The following applies whenever priority is called for in Contract Documents: specifications must govern Drawings; figured dimensions must govern scaled dimensions; detail drawings must govern general drawings; Drawings must govern Submittals.
- 1.4 **Indemnification:** The Contractor is required to defend, indemnify and hold harmless the Owner and the Professional, their employees, agents, servants, and representatives from and against all claims, suits, demands, actions of whatever type and nature and all judgments, costs, losses and damages, whether direct, indirect or consequential including, but not limited to, charges of architects, engineers, attorneys and others and all court, hearing and any other dispute resolution costs arising from:
 - (a) any patent or copyright infringement by the Contractor.
 - (b) any damage to the premises or adjacent lands, areas, properties, facilities, rights-of-way, and easements, including loss of use to the business and property of others as a result of Contractor's operations.
 - (c) any bodily injury, sickness, disease or death, or injury to or destruction of property, including loss of use due to or related to the Work and caused in whole or in part by the Contractor or Subcontractor or Supplier's negligence, omissions, or failure to maintain the required insurance and coverage and,
 - (d) a failure by the Contractor to appropriately handle Hazardous Materials for the Work or the Contractor's operations in compliance with the Owner requirements and/or applicable Laws and regulations.

The indemnification obligations are not affected by the limitation on the amount and types of damages, compensation or benefits payable by or for the Contractor or Subcontractor or Supplier under worker's or workman's compensation acts, disability benefit acts or other employee benefit acts.

- 1.5 **Contract Documents Ownership:** The State is the owner of the Contract Documents. The Contractor, Subcontractor or Supplier must not reuse any of the documents on any other Project without prior consent of the State and Professional. The Professional will furnish on behalf of the Owner at no cost to the Contractor, one (1) electronic copy of the Drawings and Project Manual. If the **Contractor**, or the Contractor's Subcontractors or Suppliers request hard copy sets, reproduction of these documents will be the responsibility of the **Contractor**.

2. GENERAL PROVISIONS

- 2.1 **Owner:** The Project Director and/or Owner Field Representative will represent the Owner. Neither the Project Director nor the Owner Field Representative has the authority to interpret the requirements of the Contract Documents or to authorize any changes in the Work or any adjustment in Contract Price/Time. The State will provide the necessary easements for permanent structure and permanent changes in existing lands, areas, properties, and facilities. However, the Contractor must obtain, at no increase in Contract Price/Time, permits for any other lands, areas, properties, facilities, rights-of-way, and easements required by the Contractor for temporary facilities, storage, disposal of soil or waste material or any other purpose. The Contractor must submit copies of the permits and written agreements to the Owner. The Contractor must engage a registered land surveyor to establish the necessary reference points and/or base lines for construction and must be responsible for protecting them including benchmarks and Project elevations.
- 2.2 **Professional:** Acting as the Owner's representative during the Contract Time period, the Professional will endeavor to guard the Owner from Defective work and to keep the Owner informed of the progress of the Work. Unless delegated by specific written notice from the Owner, the Professional and the Professional's representatives do not have the authority to authorize any changes in the Work or any adjustment in Contract Price/Time. The On-site Inspections by the Owner Field Representative and/or the Professional do not relieve the Contractor from its obligation to provide the Work in accordance with the Contract Documents or represent acceptance of Defective Work.
- 2.3 **Contractor:** The Contractor must manage, supervise, and direct the Work competently, applying the management, supervision, skills, expertise, scheduling, coordination, and attention necessary to provide the Work in accordance with the Contract Documents with a minimum disturbance to or interference to the business operations on site or adjacent properties. The Contractor must assign and maintain a competent full-time **superintendent** on the Work, as its representative, at all times while Work is being done on site and must not be replaced without the Owner's consent. The DTMB Superintendent Designation [form](#) must be completed by the Contractor and submitted before beginning any work. The Contractor shall enforce good order among its employees and shall not employ on the work any disorderly, intemperate, or unfit persons, or not skilled in the work assigned to them. The Contractor is solely responsible for his Means and Methods, safety precautions and programs related to safety, the Contractor's failure to execute the Work in accordance with the Contract Documents and any act of omissions by the Contractor,

Subcontractor or Supplier. The Contractor must **compare Contract Documents for conflicts**, unworkable or unsafe specified Means and Methods and verify against manufacturer's recommendations for installations and handling and must notify the Professional in writing of the discovery of any such conflicts or errors. The Contractor is required to furnish certifications that lines and grades for all concrete work were checked before and after placing concrete, and that final grades are as required by the Contract Documents. Wherever required, the Contractor must be responsible for all cutting, fitting, drilling, fixing-up, and patching of concrete, masonry, gypsum board, piping and other materials that may be necessary to make in-place Work and dependent Work fit together properly. The Contractor must restore to pre-existing conditions all walks, roadways, paved or landscaped areas and other real and personal property not designated for alteration by the Contract Documents. The Contractor must maintain at the site one copy of safety data sheets (SDS) and one copy of all **as built/Record Documents** in good order and annotated in a neat and legible manner to show:

- (a) all revisions made,
- (b) dimensions noted during the furnishing and performance of the Work, and
- (c) all deviations between the as-built installation and the Contract Documents, all approved Submittals and all clarifications and interpretations.

The Contractor must maintain and furnish promptly to the Owner and the Professional upon their request **daily field reports and photos** recording the on-site labor force and equipment (Contractor and Subcontractors); materials/equipment received; visits by Suppliers; significant in-progress and completed trade Work within major areas; and other pertinent information. The Contractor is obligated to act to prevent threatened damage, death, injury, or loss without any special instruction in **emergencies** and must give the Owner prompt written notice of any changes in Work resulting from the action taken for review and approval.

2.4 Subcontractors and Suppliers: The Owner assumes no contractual obligations to anyone other than the Contractor. All trade construction Drawings must be field coordinated before fabrication and/or installation. The Owner reserves the right to reject or revoke, for its convenience, any approved Subcontractor/Supplier. Work performed by any Subcontractor or Supplier must be through an appropriate written agreement that:

- (a) expressly binds the Subcontractor/Supplier to the requirements of the Contract Documents,
- (b) requires such Subcontractor or Supplier to assume toward the Contractor all the obligations that the Contractor assumes toward the Owner and the Professional, and
- (c) contains the waiver of rights and dispute resolution provisions.

2.5 Prevailing Wages and Access to Payroll Records:

2.5.1 Prevailing Wages:

To the extent applicable, Contractor will comply with federal and state (2023 PA 10, MCL 408.1101 to 408.1126) prevailing wage requirements.

Federal Prevailing Wages -The federal prevailing wage requirements in the attached Federal Provisions Addendum apply when the Davis-Bacon Act ([40 USC 3141-3148](#)) as supplemented by Department of Labor regulations ([29 CFR Part 5](#), "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction") applies.

State Prevailing Wages-The following provisions apply when 2023 PA 10 applies.

Prevailing Wage and Fringe Benefits--The rates of wages and fringe benefits to be paid to each class of Construction Mechanic by DB Entity and Subcontractors, shall not be less than the wage rates and fringe benefit rates prevailing in the locality in which the work is performed.

Nondiscrimination, Nonretaliation- Contractor or a Subcontractor shall not discharge, discipline, retaliate against, or otherwise discriminate against a Construction Mechanic, or threaten to do any of these things, because the Construction Mechanic reported or was about to report a violation or suspected violation of the act.

Construction Mechanics under this Contract are intended beneficiaries of the contractual prevailing wage, fringe benefit, and nondiscrimination nonretaliation requirements of the Contract. Any such Construction Mechanic aggrieved by failure of a contractor or subcontractor to pay prevailing wages or benefits as specified in the Contract, or by violation of section 7 of 2023 PA 10, in addition to any other remedies provided by law, may bring an action in a court of competent jurisdiction against such contractor or subcontractor for damages or injunctive relief and may be awarded reinstatement or other appropriate relief, and all damages sustained, together with actual costs and attorney fees at trial and on appeal.

Contractor and Subcontractors shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing wage and fringe benefit rates prescribed in this Contract and shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each Construction Mechanic employed by it in connection with the Contract. This record shall be available for reasonable inspection by the State.

2.5.2 Payroll: The Contractor and its Subcontractors must maintain and keep, in accordance with generally accepted accounting principles, records pertaining to the bidding, award and performance of the Work, including, but not limited to certified payroll, employment records and all data used in estimating the Contractor's prices for the Bid, Change Order, proposal or claim. The Owner

or its representative must have access to those records, must have the right to interview the Contractor's employees and must be provided with appropriate facilities for the purpose of inspection, audit/review and copying for five years after final payment, termination, or date of final resolution of any dispute, litigation, audit exception or appeal. The payroll and other employment records of workers assigned to the site must contain the name and address of each worker, correct wage classification, rate of pay, daily and weekly number of hours worked, deduction made, and actual wages paid. The Contractor must maintain records that show: (a) the anticipated costs or actual costs incurred in providing such benefits, (b) that commitment to provide such benefits is enforceable, and (c) that the plan or program is financially responsible and has been communicated in writing to the workers affected.

3. Bonds and Insurance:

- 3.1 Both the Performance Bond and Payment Bond must remain in effect from the date of Contract Award until final completion of the Work or the end of Correction Period, whichever comes later. The surety bonds required for a Construction Contract will not be accepted by SFA unless the surety bonding company is listed in the current United States Government, Department of Treasury's, Listing of approved sureties (bonding/insurance companies), Department Circular 570. Copies of the current Circular listing may be obtained through the internet web site <https://www.fiscal.treasury.gov/fsreports/ref/suretyBnd/c570.htm>.

Insurers must have an "A-" A.M. Best Company Rating and a Class VII or better financial size category as shown in the most current A.M. Best Company ratings. Insurance must be provided by insurers authorized by the Department of Insurance and Financial Services (DIFS) to do business as an insurer in Michigan. The insurance company must attach evidence of the authorization. These certificates must specify the Project File No., Project Title, and a description of the Project. The Contractor agrees that insurance coverage afforded under the policies as such coverage relate to the State under this Contract as determined by the Contractor will not be modified or canceled without at least thirty calendar days prior written notice to the State. The latest A.M. Best's Key Ratings Guide and the A.M. Best's Company Reports (which include the A.M. Best's Ratings) are found at: <http://www.ambest.com>. The Contractor must not perform any part of the Work unless the Contractor has all the required insurance in full force and effect.

- 3.2 The Contractor is required to provide proof of the minimum levels of insurance coverage as indicated below. The purpose of this coverage must be to protect the State from claims which may arise out of or result from the Contractor's performance of services under the terms of this Contract, whether such services are performed by the Contractor, or by any subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable.

The Contractor waives all rights against the State for recovery of damages to the extent these damages are covered by the insurance policies the Contractor is required to maintain pursuant to this Contract. The Contractor also agrees to provide evidence that all applicable insurance policies contain a waiver of subrogation by the insurance company.

All insurance coverages provided relative to this Contract/Purchase Order is PRIMARY and NON-CONTRIBUTING to any comparable liability insurance (including self-insurances) carried by the State.

The Insurance must be written for not less than any minimum coverage herein specified or required by law, whichever is greater. All deductible amounts for any of the required policies are subject to approval by the State.

The State reserves the right to reject insurance written by an insurer the State deems unacceptable.

BEFORE THE CONTRACT IS SIGNED BY BOTH PARTIES and BEFORE THE PURCHASE ORDER IS ISSUED BY THE STATE, THE CONTRACTOR MUST FURNISH TO THE DIRECTOR-DCD CERTIFICATE(S) OF INSURANCE VERIFYING INSURANCE COVERAGE. THE CERTIFICATE MUST BE ON THE STANDARD "ACCORD" FORM. THE CONTRACT OR PURCHASE ORDER NUMBER MUST BE SHOWN ON THE CERTIFICATE OF INSURANCE TO ASSURE CORRECT FILING. All such Certificate(s) are to be prepared by the Insurance Provider and not by the Contractor. All such Certificate(s) must contain a provision indicating that coverages afforded under the policies WILL NOT BE CANCELLED, MATERIALLY CHANGED, OR NOT RENEWED without THIRTY days prior written notice, except for 10 days for non-payment of premium, having been given to the Director-DCD. Such NOTICE must include the CONTRACT NUMBER affected and be mailed to the Project Director.

The Contractor is required to provide the type and amount of insurance below:

- (a) Commercial General Liability Insurance with a limit of not less than \$1,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it must apply separately to this project.

The Contractor must list the State, its departments, divisions, agencies, offices, commissions, officers, employees, and agents as ADDITIONAL INSUREDS on the Commercial General Liability policy.

- (b) Vehicle Liability Insurance for bodily injury and property damage as required by law on any auto including owned, hired, and non-owned vehicles used in the Contractor's business.

The Contractor must list the State, its departments, divisions, agencies, offices, commissions, officers, employers, and agents as ADDITIONAL INSUREDS on the vehicle liability policy.

- (c) Worker's disability compensation, disability benefit or other similar employee benefit act with minimum statutory limits.

NOTE:

- (i) If coverage is provided by a State fund or if Contractor has qualified as a self-insurer, separate certification must be furnished that coverage is in the state fund or that Contractor has approval to be a self-insurer.
- (ii) Any citing of a policy of insurance must include a listing of the States where that policy's coverage is applicable; and
- (iii) This provision must not be applicable where prohibited or limited by Michigan law.

(d) Employer's Liability Insurance with the following minimum limits:

\$1,000,000 each accident
\$1,000,000 each employee by disease
\$1,000,000 aggregate disease

(e) Pollution Liability Insurance in the amounts of not less than \$1,000,000 per occurrence is required.

- 3.3 **Liability Insurance:** Liability insurance must be endorsed to list as additional insureds the Professional's consultants and agents. Worker's Compensation, Employer's Liability Insurance and all other liability insurance policies must be endorsed to include a waiver of rights to recover from the Owner, Professional and the other additional insureds. The Contractor's liability insurance must remain in effect through the Correction Period and through any special correction periods. For any employee of the Contractor who is resident of and hired in Michigan, the Contractor must have insurance for benefits payable under Michigan's Worker's Compensation Law. For any other employee protected by Worker's Compensation Laws of any other state, the Contractor must have insurance or participate in a mandatory state fund, where applicable, to cover the benefits payable to any such employee. These requirements must not be construed to limit the liability of the Contractor or its insurers. The Owner does not represent that the specified coverage or limits of insurance are sufficient to protect the Contractor's interests or liabilities.
- 3.4 **Builder's Risk Insurance:** Unless indicated otherwise in the bid document, the Contractor will purchase and maintain property insurance for 100% of actual cash replacement value of the insurable Work (minimum amount to be the contract award amount) while in the course of construction, including foundations, additions, attachments, and all fixtures, machinery and equipment belonging to and constituting a permanent part of the building structures. The property insurance also will cover temporary structures, materials and supplies to be used in completing the Work, only while on the building site premises or within five hundred feet of the site. The property insurance insures the interests of the Owner, Contractor and all Subcontractors and Suppliers at any tier as their interest may appear. The property insurance insures against "all risk" of physical loss or damage to the extent usually provided in policy forms of insurers authorized to transact this insurance in Michigan. A copy of the master insurance policy will be available for review by the State, upon request. Any deductible shall be both the option and responsibility of the **Contractor**.
- 3.5 The Owner and Contractor intend that the required policies of property insurance must protect all the parties insured and provide primary coverage for all losses and damages caused by the perils covered. Accordingly, to the extent that the insurance company pays claims, the Owner and the Contractor and its Subcontractors/Suppliers waive all rights against each other for any such losses and damages and waive all such rights against the Professional and all other persons named as insureds or additional insureds.
- 4. Prosecutions; Substantial Completion:**
- 4.1 The Contractor must not start the Work at the site before the first day established by the Notice to Proceed and/or before all insurance is in effect. A pre-construction conference will be held with the Contractor to review its Progress Schedule, qualifications of its key personnel, its proposed access to the site, traffic and parking, procedures for submittal, change orders, etc., and to exchange emergency contact information. The Contractor must use its accepted Progress Schedule when making proposals or claims for adjustment in Contract Time/Price.
- 4.2 Except in an Emergency, all Work at the site must take place during normal working hours; 6:00 AM to 6:00 PM, during Business Days and in accordance with the special working conditions for the Agency. If the Contract Documents allow work outside the normal hours, the Contractor must provide a written notice to the Owner twenty-four hours before performing such Work and must reimburse the Owner any related increase in the costs incurred by the Owner such as overtime charges of the Professional and payments for custodial and security personnel.
- 4.3 If, upon inspection and completion of all pre-requisite testing of the Work, the Contractor considers that a portion of the work or all the Work is substantially completed, it must provide a list of items to be corrected or completed to the Owner and the Professional for joint inspection. Within ten Calendar Days of this joint inspection, the Professional will deliver to the Owner and Contractor a list of incomplete/Defective work or a Certificate of Substantial Completion with a Punch List. The certificate must:
- (a) fix a reasonable date of Substantial Completion,
 - (b) fix a date for completion of the Punch List, and
 - (c) recommend the division of responsibilities between the Owner and Contractor for utilities, security, safety, insurance, maintenance, etc.

Upon issuing the Certificate of Substantial Completion, the Owner will pay for the completed Work subject to (a) withholding of two hundred percent of the value of any uncompleted Work, as determined by the Professional, and (b) any other deductions as the Professional may recommend or may withhold to cover Defective work, liquidated damages and the fair value of any other items entitling the Owner to a withholding. Prerequisites for Substantial Completion, over and above the extent of Work completion required, include (a) receipt by the **Owner** of operating and maintenance documentation, (b) all systems have been successfully tested and demonstrated by the **Contractor** for their intended use, and (c) the **Owner** having received all required certifications and/or occupancy approvals from the State and those Political Subdivisions having jurisdiction over the Work. Receipt of all certifications and/or occupancy approvals from those Political Subdivisions with jurisdiction in and of itself does not necessarily connote Substantial Completion. The Contractor must provide all related operating and maintenance (O&M) documentation to the Owner before training if training is required and not later than Substantial Completion otherwise. The Contractor must give the Owner the final O&M documentation (with revisions made after Substantial Completion) before the request for final payment.

4.4 The Owner may decide to use, at its sole option, any functioning portion of the Work and will inform the Contractor in writing of the decision. The portion of Work to be used must be jointly inspected to determine the extent of completion if it has not undergone the inspection for Substantial Completion. The Professional must prepare a list of items to be corrected/completed and the Owner will allow the Contractor reasonable access to correct/complete the listed items and finish other work.

5. Warranty; Tests, Inspections and Approvals; Corrections of Work:

5.1 **Warranty:** The Contractor must furnish the State with a written guarantee to remedy any defects due to faulty materials or labor which appear in the Work within one year from the date of final acceptance by the State. This warranty excludes defect or damage caused by (a) abuse, modification by others, insufficient or improper operation or maintenance, or (b) normal wear and tear under normal usage. Manufacturer warranties for materials and equipment received by the Contractor must be assigned and promptly delivered to the Owner at Substantial Completion. The warranties period starts from the date of the substantial completion and must be in full force and effect for the entire duration of the Correction Period.

Roof Warranty: For roofing systems, the following warranties are required as minimum:

- (a) A two-year contractor's warranty against any defects due to faulty materials or labor.
- (b) A fifteen-year manufacturer's total system warranty; and
- (c) A twenty-year membrane/shingles/tiles warranty.

5.2 **Tests, Inspections and Approvals:** The Owner will perform or retain a professional/agency to perform inspections, tests or approvals for those materials required to meet quality control standards specified in the Contract Documents except for those inspections, tests or approvals specifically designated to the Contractor in the Contract Documents. However, the Contractor must assume full responsibility for any testing, inspection, or approval.

- (a) required to meet code requirements, as promulgated by code inspecting authorities.
- (b) required by Law.
- (c) indicated or required by the Contract Documents as designated to the Contractor.
- (d) required for the Professional's acceptance of a Supplier, materials or equipment or mix designs submitted for prior approval by the Contractor; or
- (e) Defective work, including an appropriate portion of the Delay and costs occasioned by discovery of Defective work. The Contractor must (a) pay all related costs; (b) schedule related activities; and (c) secure and furnish to the Professional the required certificates of inspection, testing or approval. The Contractor must provide proper and safe access to the site for inspection, testing or approval. The Contractor must provide the Professional a timely notice whenever any Work is ready for inspection, testing or approval. If the Contractor covers any Work without proper approval by the Professional as required by the Contract Documents, the Contractor must, at its own expense, uncover, expose, or otherwise make available, when requested by the Professional or Owner, for testing, inspection, or approval of the covered Work.

5.3 **Correction of Work:** If any testing, inspection, or approval reveals Defective Work and the Work is rejected by the Professional, the Contractor, at its sole expense, must promptly, as directed, correct, or remove the Defective Work from the site and replace it with non-Defective Work within the Correction Period. The Contractor must bear responsibility for its proportionate share of the Delay and costs resulting from the correction and/or removal and replacement of Defective Work. If the Contractor, within reasonable and agreed upon time after receipt of written notice, (a) fails to correct Defective Work or remove and replace rejected Work, or (b) fails to correct or complete items on any Punch List, or (c) fails to perform Work in accordance with the Contract Documents, or (d) fails to comply with any other provision of the Contract Documents, the Owner, directly or through others, after seven Calendar Days from the date of the written notice to the Contractor, may correct and remedy the Defective Work. To the extent necessary to correct and remedy such Defective Work, the Owner must be allowed to exclude the Contractor from all or part of the site; take possession of all or part of the Work and stop related operations of the Contractor; take possession of the Contractor's tools, plant and office and construction equipment at the site; and incorporate into the Work materials and equipment for which the Owner has paid the Contractor. The Contractor must allow the Owner and the Professional easy access to the site to correct such Defective Work. The Owner must be entitled to an appropriate decrease in Contract Price for all claims, costs, losses, damages, and Delay incurred or sustained by the Owner which are attributable to the Contractor. Such costs may include, but not limited to, costs of correction or removal and replacement of Defective Work, costs of repair and replacement of other work destroyed or damaged by the action and related charges of the Professional. If the discovery of the Defective Work takes

place after final payment and the Contractor fails to correct and pay the Owner any of these costs, the Owner must demand due performance under the Performance Bond. Until the period of limitation provided by Michigan Law, the Contractor must promptly, and upon receipt of written notice from the Owner, correct Defective Work. In the event of an Emergency or unacceptable risk of loss or damage or if appropriate under the circumstances, the Owner, directly or through others under contract with the Owner, may correct or remove and replace the Defective Work. The specified correction of Work requirements has no limitation on the rights of the Owner to have Defective Work corrected or removed and replaced, if rejected, except as otherwise provided by the Michigan Law.

5.4 Special Correction Period Requirements: Whenever the Owner undertakes any portion of the Work because the Contractor's act or omission Delays completion of the Work or it is eligible for Partial Use, the warranties for all materials and equipment incorporated into that portion of the Work must remain in full force and effect between the start of such Partial Use and the date when the Correction Period starts. The Correction Period for any Defective Work that is corrected or rejected and replaced within the last three months of the Correction Period must be extended by an additional six months, starting on the date such Work was made non-Defective.

5.5 Special Maintenance Requirements: If the Contract Documents specify that the entire Work, or a portion of the Work, upon reaching Substantial Completion, must not be placed in use by the Owner, the Contractor must maintain the Work, or specified part of the Work, in good order and proper working condition and must take all other actions necessary for its protection between the certified date of Substantial Completion and the date when the Work, or designated part of the Work, is placed in use. If no separate price for such special maintenance period was requested and made part of the Contract Documents, the Owner will amend the Contract Documents to appropriately increase the Contract Price.

6. Changes:

6.1 Changes in the Work: The Owner may, at any time, without notice to sureties, make any changes bilaterally or unilaterally, by a written Change Order, in the Work within the general scope of the Contract, including but not limited to changes in the Specifications, materials, or Contract Time. In a bilateral change order, the Owner may direct the Professional to prepare a Bulletin describing the change being considered. Upon receiving the Bulletin, the Contractor establishes the cost and returns it to the Professional for review within 15 calendar days. The Contractor's proposal must be irrevocable for 60 Calendar Days after it is submitted to the Professional. If the Professional recommends acceptance of the Bulletin and the Owner agrees with the changes, the Owner issues a written bilateral Contract Change Order to amend the Contract Documents. However, the Owner may issue a unilateral Change Order if the Owner and Contractor are unable to agree on the adjustment in Contract Price or Time. If the Contractor disagrees with such unilateral Contract Change Order, the Contractor must complete the Work and may deliver notice of a claim in accordance with the claim submittal process.

6.2 Differing Site Condition: The Owner does not warrant that any technical data, including the Project reference points, provided by the Owner is necessarily sufficient and complete for the purpose of selecting Means and Methods, initiating, maintaining, and supervising safety precautions and programs or discharging any other obligation assumed by the Contractor under the Contract Documents. If different or unknown site conditions are discovered, the Contractor must notify the Owner in writing before the conditions are disturbed or before proceeding with the affected Work. Upon review, if the Owner decides to agree with the differing site conditions, with the Professional's advice, the Owner may issue a written Contract Change Order to amend the Contract Price or Time through the Bulletin authorization process. If the Owner decides to disagree with the Contractor and the Contractor disagrees with the Owner's decision, the Contractor must complete the Work and may deliver notice of a claim in accordance with the claim submittal process. No proposal or claim by the Contractor due to differing site conditions will be allowed (a) if the Contractor knew of their existence before submitting its Bid or if those conditions could have been discovered by any reasonable examinations for which the Contractor, as Bidder, was made responsible under the Bidding Requirements and/or (b) unless the Contractor's written notice is provided within not more than 21 days after the contractor first recognizes the condition giving rise to the proposal or claim and gives the Owner adequate opportunity to investigate the asserted differing site conditions. A full and detailed breakdown of cost and time requested, with supporting documentation, if not provided with the initial notice shall be delivered to the Professional and Owner within 15 days of the notice, unless otherwise agreed in writing, by the Owner prior to expiration of such time.

6.3 Responsibilities for Underground Utilities: The Contractor must comply with the 2013 PA 174, as amended, MCL 460.721 et seq. and all other Laws concerning Underground Utilities. Before performing site Work, all Underground Utilities, lines, and cables (public and private) must be located and marked. The Contractor must notify MISS DIG to locate and mark utilities on properties that are not State properties. In addition, the Contractor must be responsible for immediately notifying the Owner of any contact with or damage to Underground Utilities, and for the safety, protection of and repairing any damage done to any Work, surface, and subsurface facilities. If the Contractor encounters Underground Utilities that inaccurately located by the Contract Documents or not previously located/marked, which could not be reasonably have been seen, the Owner may issue a written Contract Change Order to amend the Contract Price or Time through the Bulletin authorization process.

6.4 Hazardous Material Conditions: If the Contractor encounters material reasonably believed to be Hazardous Material, which was not described in the Drawings and/or Specifications and was not generated or brought to the site by the Contractor, the Contractor shall immediately stop all affected work, give written notice to the Owner of the conditions encountered, and take appropriate health and safety precautions in accordance with all federal, state, and local laws. Upon receipt of the notice, the Owner will investigate the conditions and (a) may stop the Work and terminate the affected Work or the Contract for convenience; (b) may contract others to have the Hazardous Material removed or rendered harmless or (c) issue a written Contract Change

Order to amend the Contract Price/Time through the Bulletin authorization process. If the Hazardous Material is brought to site by the Contractor or as a result in whole or in part from any of its violation of any Law covering the use, handling, storage, disposal of, processing, transport and transfer or from any other act or omission within its control, the Contractor is responsible for the Delay and costs to clean up the site, remove and render harmless the Hazardous Material to the satisfaction of the Owner, State and all Political Subdivisions with jurisdiction.

6.5 Incidents with Archaeological Features: The Contractor must immediately notify the Owner in writing of any Archeological Feature deposits encountered at the site and must protect the deposits in a satisfactory manner. If the Contractor encounters such features, which result in an anticipated change to the Contract Price/Time, the Owner may issue a written Contract Change Order through the Bulletin authorization process.

6.6 Unit Price Work: Quantities as listed have been carefully estimated but are not guaranteed. The Owner reserves the right to increase or decrease the quantities of the Work to be performed at the Unit Price by amounts up to 20 percent of the listed estimated quantities. For Unit Price Work, the Contractor must promptly inform the Professional in writing if actual quantities differ from the estimated quantities for any item. For quantities over 120% or below 80% of the estimated quantity, the Owner may negotiate a Unit Price with the Contractor, or direct a unilateral change, or bid that Work under separate contract. Any adjusted Unit Price agreed upon by the Owner will only apply to the actual quantities above 120% or below 80% of the estimated quantity. No adjustment due to quantity variations must be allowed (a) unless the Contractor met the notice requirements, or (b) if any Unit Price increase results in whole or in part from any act or omission within the control of the Contractor (errors in the Contractor's Bid, unbalanced Unit Prices, etc.). If a dispute arises between the Owner and the Contractor on the adjusted Unit Price, the Contractor must carry on the Work with due diligence during the disputes/disagreements.

6.7 Cash Allowances; Provisionary Allowances: The Contractor must obtain the Professional's and Project Director's written acceptance before providing materials, equipment, or other items covered by Cash Allowance. Work authorized under any Provisionary Allowance may consist of (a) changes required by actual conditions, as determined by the **Professional**, and (b) any other Work authorized and completed under the pertinent provisions of the Contract Documents.

6.8 Changes in Contract Price:

- 6.8.1 The Contractor's proposals or claims for Work Involved must detail all affected items of Work, whether increased, revised, added, or deleted, and must be fully documented and itemized as to (a) individual adds and deducts in Work quantities and labor man-hours; (b) corresponding itemized cost of Work Involved; (c) materials and equipment cost including transportation, storage, and suppliers' field services; and (d) Fee.
- 6.8.1.1 No proposal or claim by the Contractor on account of any asserted change not issued as a Bulletin by the PSC or Owner, shall be allowed unless initiated by written notice of such proposal or claim to the Professional and Owner within 21 days after the occurrence of the event giving rise to the proposal or claim. A full and detailed breakdown of cost and time requested, with supporting documentation, if not provided with the initial notice shall be delivered to the Professional and Owner within 15 days of the notice, unless otherwise agreed in writing, by the Owner prior to expiration of such time.
- 6.8.2 For Contractor's proposals or claims for adjustments in Contract Price arising from Delays, the Contractor's estimates must be as comprehensive and detailed as may be appropriate to support the proposal or claim. Examples of related information include labor manpower levels, production data and Progress Schedule revision.
- 6.8.3 If the Contract Documents use lump sum or Unit Prices for the Work Involved, those prices must be used in estimating the price change. Otherwise, the Owner may direct the Contractor to proceed (a) on a negotiated lump sum; or (b) on an actual cost basis with or without a guaranteed maximum; or (c) through a unilateral Change Order on a lump sum basis or a not-to-exceed basis, based on the Professional's estimate of the anticipated Cost of the Work Involved and a fee. Items making-up the Cost of the Work Involved must be allowable to the extent (a) consistent with those prevailing in the Project locality, (b) necessary, reasonable, and clearly allocable to the Work Involved, and (c) limited to labor costs, subcontract costs, material and equipment costs, construction equipment costs and general conditions costs.
- 6.8.4 In estimating any additional cost by the Contractor or its Subcontractor, the rates for the craft labor man-hour used in estimating changes in Contract Price must not exceed the rates in Means Cost Data (Means) or other cost guide acceptable to the Owner. If the rates exceed the acceptable cost guides, the Contractor must provide proper justifications acceptable to the Professional and the Owner. The payroll costs may be used to quote a Bulletin. However, the payroll costs must include wages, labor burdens and a factor for field supplies and purchase costs (less market values if not consumed) of tools not owned by the workers. Labor burdens must be certified by an authorized financial representative of the Contractor and may include social security, unemployment, taxes, workers' compensation, health and retirement benefits, vacation, and holiday pay. The factor for field supplies and tools (individually valued at less than \$1,000.00) must not exceed 4% of the wages without burdens, unless detailed data, which supports higher costs, is provided. Rates for owned, rented, or leased construction equipment must be in accordance with the contract price rates. Otherwise, the appropriate hourly, daily, weekly, or monthly rates listed in Means must be used. However, if the total rental or lease cost of an item to the Project exceeds the reasonable purchase price of the rented or leased item, the Owner reserves the right to pay only the purchase price of the item and take title to the item. Operating cost must not exceed the hourly operating rate in Means and for multiple shifts, rates must not exceed the shift work adjustments recommended in the cost guide.

- 6.8.5 The cost of any Work Involved may include necessary general conditions costs to the extent those costs increase or decrease on account of, or are directly attributable to, the performance of the furnishing and/or performance of the additional Work Involved or are required due to an extension in Contract Times or Delays. Such costs may include payroll costs of personnel, temporary facilities at the site, liability insurance and bond premiums, Subcontractors, royalty payments and fees for permits and licenses and taxes on the Work Involved.
- 6.8.6 A contractor or subcontractor who performs the Work may charge a fee of up to 15% of the cost of Work involved for overhead and profit. Contractor may charge a mark-up fee of up to 5% of its Subcontractor's cost excluding fees if the Work is performed by the Subcontractor. If Work is to be performed by lower tier subcontractor(s), intermediate subcontractors and the Contractor must share a fee of up to 5% of the lowest tier subcontractor's cost excluding fees. The total mark-up fees for the Work must not exceed 20% of the lowest tier subcontractor's cost excluding fees. If the adjustment to the Contract Price incorporates a contractor reservation of rights to claim additional adjustments, the fees must be reduced by one-third. Contractor's administrative costs and home office overhead must be non-reimbursable expenses covered by the Fee for the Work.

6.9 Changes in Contract Time:

- 6.9.1 If a justified extension beyond the Contract Time is not reasonably anticipatable under the circumstances, the Owner may approve an extension to the Contract Time through the Bulletin authorization process at no additional cost to the Owner. Examples of events that may justify an extension in the Contract Time include acts of God; acts of the public enemy; fires; floods; and strikes.
- 6.9.2 If, at any time during the life of this Contract, the Contractor finds that for reasons beyond its control, it will be impossible to complete the Work on or before the Contract completion date, a written request for a change to the Contract extending the time of completion must be submitted. Such a request must set forth in precise detail the reasons believed to justify an extension and must be in such format as the State may require.
- 6.9.3 When submitting a quotation for a Contract change authorization for extra work or change in plans, the Contractor must include as part of the quotation, a statement requesting any extra time necessary to complete the related Work. Lack of such a statement will serve as notification that the extra time will not be required to complete the Contract work and will waive the right to a later claim. The Owner will not pay additional compensation to the Contractor for performing Contract Work during any extension period granted.
- 6.9.4 If the Progress Schedule and the funding allow for an early completion date, the Contractor may submit to the Owner for approval, a request to shorten the Contract Time. If approved by the Owner, the new Contract Time applies to the Project and liquidated damages, if any, will be assessed for any delays after the new completion date.

- 6.10 Price Reduction for Defective Cost or Pricing Data:** Whenever the Contractor signs a proposal for a change in the Contract or claim settlement, the Contractor will be deemed to have certified on behalf of itself, Subcontractors and Suppliers, to its best knowledge and belief that the proposal and its contents (a) were made in good faith and are consistent with the facts and the provisions of the Contract; and (b) are current, complete, and accurate. If the Contract Price/Time is increased by any Change Order, claim or dispute settlement because the Contractor, Subcontractor or Supplier, at any tier, represented or furnished cost or pricing data of any kind that were false, contained math errors or were incomplete, the Contract Price must be correspondingly reduced by Change Order. If there is a good cause to doubt the Contractor's compliance with the Defective cost and pricing data requirements, the Owner must be entitled to make an appropriate withholding from any payment otherwise owed to the Contractor.

7. Payments

- 7.1 **Schedule of Values:** The Schedule of Values must be approved by the Professional and accepted by the Owner and must divide the Work into pay items for significant Sections and areas, facilities, or structures, with subtotals for first tier Subcontractors. As required or as noted in Division 1, the accepted Schedule of Values must be supported by a more detailed breakdown allocating the pay items to the Progress Schedule Activities. It must tabulate labor costs, Subcontract costs and material and equipment costs. Labor costs must include appropriate sums for construction equipment costs, general conditions costs, administrative costs, and profit, unless separate pay items are itemized for those costs. The Schedule of Values must include two percent of the Contract Price for each of the following close-out pay items: (a) fire safety inspection, certificate of occupancy and other code approvals, as specified in the Contract Documents, (b) manufacturer warranties, finalized operating and maintenance documentation, Owner training documentation, and test and balance reports, and (c) finalized as built/Record Documents.
- 7.2 **Requests for Payment:** Not more than once every thirty Calendar Days, the Contractor may submit to the Professional a Request for Payment on the Owner's form signed by the Contractor certifying Work completed and enclosing all supporting documentation. A draft copy of the payment request must be submitted to the Owner Field Representative for review and comments. For projects under \$50,000, the Contractor may not submit more than two requests in addition to the final payment request. Each Request for Payment must certify that all monies owed by the Contractor to Subcontractors and Suppliers for which payment previously has been sought has been paid from payments received and include a sworn statement. No Request for Payment must include amounts for a Subcontractor or Supplier if the Contractor does not intend to use the payments requested, when received, to reduce the Contractor's outstanding obligations on the Work. The Owner will pay the Contractor

within thirty Calendar Days after the Owner receives and approves a certified Request for Payment from the Professional. The Contractor will provide a certification in writing that the payment request submittal is true and accurate. If payment is requested based on materials and equipment stored at the site or at another location agreed to in writing, the Request for Payment also must be accompanied by (a) consent of surety, (b) a bill of sale, invoice or other documentation warranting that the Owner has received the materials and equipment free and clear of all liens, and (c) evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect them and the Owner's interests. The Contractor warrants and guarantees that title to all Work, materials and equipment covered by any Request for Payment, whether incorporated in the Work or not, will pass to the Owner free and clear of all liens no later than at the time of payment by the Owner to the Contractor.

- 7.2.1 **Electronic Funds Transfer:** 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.
- 7.3 **Review of Request for Payment; Intent of Review:** Within ten Calendar Days after receipt of a Request for Payment, the Professional must certify to the Owner the amount the Professional determines to be due or must return the Request for Payment to the Contractor indicating the reasons for withholding certification. The Professional's certification of any Request for Payment constitutes a representation to the Owner that the Work has progressed to the point indicated; that to the best of the Professional's knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents; and that the Contractor is entitled to payment in the amount certified. In the case of final payment, the Professional's certification of final payment and recommendation that the Work is acceptable must be a further representation that conditions governing final payment to the Contractor have been met.
- 7.4 **Refusal to Make or to Recommend Payment:** The Owner may withhold from any payment an amount based on the (a) Professional's refusal to recommend payment or (b) Owner's estimate of the fair value of items included in the payment request. The Owner will give the Contractor reasonably prompt written notice supporting such action. The Professional may refuse to recommend any part of any payment, or because of subsequently discovered evidence, inspections or tests or the value of the Punch List, nullify all or any portion of any payment previously recommended, as the Professional may consider necessary to protect the Owner from loss because:
- (a) the Work is Defective or completed Work has been damaged requiring correction or replacement,
 - (b) the Contract Price has been reduced by Change Order,
 - (c) it has been necessary that the Owner correct Defective Work or complete Work,
 - (d) reasonable evidence exists that all or a part of the Work will not be completed within the corresponding Contract Time,
 - (e) the Contractor failed to comply with any material requirements of the Contract, including, but not limited to the failure to submit Progress Schedule Submittals or as built/Record Documents when due,
 - (f) stored materials for which payment has been made or is sought has been determined by the Professional or the Owner Field Representative to be damaged or missing, or
 - (g) the Professional reasonably believes or knows of the occurrence of an event justifying termination for cause.
- 7.5 **Request for Final Inspection:** The Contractor must complete the Substantial Completion Punch List within the Contract Time and date. The Contractor must assemble all required documentation before requesting final inspection in writing. The Contractor may request final inspection of the entire Work, or the part of the Work for which final payment is specified in the Contract Documents. Upon this written notice, and if deemed appropriate by the professional, the Professional will make a final completion inspection with the Owner and Contractor and notify the Contractor of all incomplete or Defective Work revealed by the Final Inspection. The Contractor must immediately correct and complete the Work.
- 7.6 **Close-out Documents:** The Contractor must prepare and submit the following documentation before requesting final inspection or final payment: final operating and maintenance documentation (with revisions made after Substantial Completion), warranties, inspection certificates, as built/Record Documents, release of payment claim forms, and all other required documents.
- 7.7 **Request for Final Payment:** The Contractor may request final payment after correcting or completing the Work to the satisfaction of the Professional and delivering close-out documentation (7.6). The Contractor's request for final payment must also enclose:
- (a) evidence of completed operations insurance and an affidavit certifying that the insurance coverage will not be canceled, materially changed, or renewal refused,
 - (b) an affidavit certifying that the surety agrees that final payment does not relieve the surety of any of its obligations under the Performance Bond and Payment Bond,
 - (c) a completed DTMB-0460 Form close out checklist,
 - (d) a list of all pending insurance claims arising out of or resulting from the Work being handled by the Contractor and/or its insurer

- (e) Contractor's 'Guarantee and Statement' (DTMB-0437) containing a statement of guaranteed indebtedness acceptable to the Owner in the full amount of the Contract Price, or a release of payment claims in the form of a release of liens, or a Bond or other security acceptable to the Owner to indemnify the Owner against any payment claim.
- 7.8 **Final Payment and Acceptance:** If the Professional is satisfied that the entire Work, or the part of the Work for which final payment is specified in the Contract Documents, is complete and the Contractor's other obligations under the Contract Documents has been fulfilled, the Professional will furnish to the Owner and Contractor the Professional's certification of final payment and acceptance within thirty Calendar Days after receipt of the final payment request. If the Professional is not satisfied, the Professional will return the request to the Contractor indicating in writing the reasons for not certifying final payment. If the final payment request is returned, the Contractor must correct the deficiencies and re-request final payment. If the Owner concurs with the Professional's certification of final payment the Owner will, within thirty Calendar Days after receipt of the Professional's certification of final payment, pay the balance of the Contract Price subject to those provisions governing final payment specified in the Contract Documents. If the Owner does not concur with the Professional's determination, the Owner will return the request for final payment to the Contractor with written reasons for refusing final payment and acceptance.
- 7.9 **Contractor's Continuing Obligation:** The following does not constitute acceptance of the Work in the event the Work or any Work is not in accordance with the Contract Documents, and therefore does not release the Contractor from its obligation to perform and furnish the Work in accordance with the Contract Documents:
- (a) a certification by the Professional of any Request for Payment or final payment.
 - (b) the issuance of a Substantial Completion certificate.
 - (c) any payment by the Owner to the Contractor.
 - (d) any Partial Use.
 - (e) any act of acceptance by the Owner or any failure to do so.
 - (f) any review and approval of a Shop Drawing, sample, test procedure or other Submittal.
 - (g) any review of a Progress Schedule.
 - (h) any On-Site Inspection.
 - (i) any inspection, test, or approval.
 - (j) any issuance of a notice of acceptability by the Professional; or
 - (k) any correction of Defective Work or any completion of Work by the Owner.
- 7.10 **Waiver of Claims:** The making of final payment does not constitute a waiver by the Owner of any rights as to the Contractor's continuing obligations under the Contract Documents, nor will it constitute a waiver of any claims by the Owner against the Contractor still unsettled, or arising from unsettled payment claims, Defective Work appearing after final inspection or failure by the Contractor to comply with the Contract Documents or the terms of any special warranties provided by the Contract Documents or by Law. The acceptance of final payment will constitute a waiver of all claims by the Contractor against the Owner, other than those claims previously made in writing, on a timely basis.
8. **Other Work:** During the Contract Time, the Owner may self-perform or Contract for other work at the site. By doing so, the Owner or its representative will coordinate the operations of the Contractor and the other work. Whenever the other work interfaces with the Contractor's Work on site, the Contractor must coordinate its activities with the interfacing work, inspect the other work and promptly report to the Professional in writing if the other work is unavailable or unsuitable. The Contractor's failure to do so will constitute an acceptance of such other work as fit and proper for integration with the Work except for latent or non-apparent defects and deficiencies in the other work. The Contractor must provide proper and safe access to the site for handling, unloading and storage of their materials and equipment and for the execution of the other work. The Contractor must do all cutting, fitting, patching, and interfacing of the Work that may be required to make any part of the Work come together properly and integrate with other work. If the Contractor becomes party to a dispute or claim due to damages caused to its Work/property or other work/their property, the Contractor must promptly attempt, without involving the Owner or the Professional or their agents, to settle with the other party by agreement or otherwise resolve the claim. If the Owner determines that the other work resulted in a delay to the Work to be performed by the Contractor and such delay justifies a Change Order, the Owner will authorize the necessary adjustment in Contract Price and/or Time.
9. **Stop Work Orders and Suspension of Work:** The Owner may order the Contractor in writing to defer, stop, suspend, or interrupt all or part of the Work, in the event any of the following situations:
- (a) any Work is Defective,
 - (b) any Work, when completed, will not conform to the Contract Documents,
 - (c) any materials or equipment are unsuitable,
 - (d) any workers are insufficiently skilled,
 - (e) failure of the Contractor to implement appropriate measures for the SESC, or
 - (f) as the Owner may determine appropriate for its convenience. The Contractor is responsible for the Delays and any additional costs if at fault. Any justified increase in Contract Price/Time due to suspension of Work must be submitted within twenty-one Calendar Days of knowing the extent of Delays and before submitting the final payment.

10. Termination:

- 10.1 **Termination for Breach:** The Owner may elect to terminate all or any part of the Work if:

- (a) the Contractor fails to complete the Work, or a specified part of the Work, within the corresponding Contract Time; fails or refuses to supply sufficient management, supervision, workers, materials, or equipment; or otherwise fails to prosecute the Work, or any specified part of the Work, with the diligence required to comply with the Contract Time(s).
- (b) the Contractor persistently disregards the authority of the Professional or violates or disregards a provision of the Contract Documents or the Laws of any Political Subdivision with jurisdiction.
- (c) the Contractor admits in writing, or the Owner otherwise establishes, the Contractor's inability or refusal to pay the Contractor's debts generally as they become due.
- (d) in response to the Owner's demand, the Contractor fails to provide adequate, written assurance that the Contractor has the financial resources necessary to complete the Work within the Contract Time.
- (e) the Contractor fails to comply with the Michigan Residency requirements (1984 PA 431, as amended, MCL 18.1241a); or is found to be in violation of Section 4 of 1980 PA 278 concerning unfair labor practices, or any nondiscrimination requirements imposed by Law.
- (f) at any time, the Contractor, Subcontractor or Supplier is in violation of unfair labor practices prohibited by Section 8 of Chapter 327 of the National Labor Relations Act, 29 U.S.C. 158; or
- (g) the Contractor violates or breaches any material provision of the Contract Documents, which provides contractually for cause termination or rescission of the Contract or of the Contractor's right to complete the Work.

Within seven Calendar Days after the Contractor receives a notice requiring assurance of due performance for any of the above occurring non-conformances, the Contractor must meet with the Owner and present the Contractor's plan to correct the problems. If the Owner determines that the Contractor's plan provides adequate assurance of correction, that determination does not waive the Owner's right to subsequently default the Contractor or affect any rights or remedies of the Owner against the Contractor and/or surety then existing or that may accrue in the future. The Owner, after giving the Contractor and surety seven Calendar Days' written notice of intent to default, may declare the Contractor in default and terminate the services of the Contractor for cause. Unless otherwise agreed between the Owner and Contractor, at the expiration of the Seven-Calendar Day (intent to default) period, the Contractor must immediately stop all Work and proceed in accordance with the Owner's instructions. Following the expiration of the Seven-Calendar Day (intent to default) notice, the Contractor will be sent a default letter – notice of termination for cause. The Owner will issue a Contract Change Order to revise the name of the contract party to the name of the surety company. The surety company must undertake to perform and complete the Work, in accordance with the Contract Documents, in place of the Contractor, either through the surety's agents or by executing agreements with qualified contractors (excluding the Contractor and any of the Contractor's affiliates), or both.

The Owner may issue a fifteen-Calendar Day notice of intent to default the surety company if they fail to execute in a timely manner the completion of the Contract Work. Without an adequate plan of correction, the Owner may issue a notice of termination for cause letter to the surety. If a termination of the contract with the surety occurs, the Owner reserves the right to complete the Work.

If the Owner has terminated the Contractor, any such termination will not affect any rights or remedies of the Owner against the Contractor or surety, or both, then existing or that may accrue after termination. All provisions of the Contract Documents that, by their nature, survive final acceptance of the Work must remain in full force and effect after a termination for cause of the Contractor or default of the surety, or both. The Owner may, in its sole discretion, permit the Contractor to continue to perform Work when the Contractor is in default or has been defaulted. Such decision by the Owner in no way operates as a waiver of any of the Owner's rights under the Contract Documents or Performance Bond, nor in the event of a subsequent default, entitle the Contractor or surety to continue to perform or prosecute the Work to completion.

- 10.2 **Termination on Non-Bonded Project:** For non-bonded projects, the Owner will follow the termination protocol in Paragraph 10.1 without involving a surety.
- 10.3 **Termination for Convenience of the Owner:** Upon fifteen Calendar Days' written notice to the Contractor and surety, or sooner if reasonable under the circumstances, the Owner may, without cause and without prejudice to any other right or remedy it may have, elect to terminate any part of the Work, or the Contract in whole or in part, as the Owner may deem appropriate for its convenience. Upon receipt of any such termination notice, the Contractor must immediately proceed in accordance with any specific instructions, protect and maintain the Work, and make reasonable and diligent efforts to mitigate costs associated with the termination. In such termination, the Contractor must be paid in accordance with the terms of this Contract for only services rendered before the effective date of termination. Upon termination for convenience, the Contractor must be released from any obligation to provide further services and the Owner must have full power and authority to take possession of the Work, assume any agreements with Subcontractors and Suppliers that the Owner selects, and prosecute the Work to completion by Contract or as the Owner may deem expedient.
- 10.4 **Termination for Lack of Funding:** If expected or actual funding is withdrawn, reduced, or limited in any way before the completion date set forth in this Contract or in any amendment, the State may, upon written notice to the Contractor, terminate this Contract in whole or in part in accordance with Paragraph 10.3.
11. **Disputes:** All claims, counterclaims, disputes, and other matters in question between the Owner and Contractor arising out of or relating to the Contract Documents must be submitted in writing to the Professional and otherwise processed and resolved as provided in this Article. *Claims by either the Owner or Contractor must be initiated by written notice to the other party and to the Initial Decision Maker (Professional/PSC). Claims by either party must be initiated within 21 days after the occurrence of*

the event giving rise to such Claim or within 21 days after the claimant first recognized the condition giving rise to the claim. Provided such timely notice is delivered, a full and detailed breakdown of cost and time requested, with supporting documentation, if not provided with initial notice shall be delivered to Professional and Owner within 15 days of the notice, unless otherwise agreed in writing, by the Owner prior to expiration of such time. The Contractor must carry on the Work with due diligence during all disputes or disagreements. Work must not be delayed or postponed pending resolution of any disputes or disagreements. The Contractor must exercise reasonable precautions, efforts, and measures to avoid situations that would cause delay.

- 11.1 **Notice of Claim:** Except for Owner claims for liquidated damages, no claim is valid unless it is based upon written notice delivered by the claimant to the other party and the Professional/PSC within 21 days of the event giving rise to the claim. The notice must state the nature of the dispute, the amount involved, if any, and the remedy sought. The claim submittal with all supporting data must be delivered within thirty (30) Calendar Days after the initial notice unless the Professional allows an extension by written approval. A claim by the Contractor must be submitted to the Professional and Project Director for a recommendation or decision from the Professional. A claim by the Owner must be submitted to the Contractor and the Professional for a written recommendation or decision by the Professional. The Owner reserves the right to audit any Contractor claim (or claim package) that the Contractor values at more than \$50,000.00. Pending final resolution of any claim under this Article, the Contractor must proceed diligently with the Work and comply with any decision of the Owner and/or Professional. For all Contractor claims seeking an increase in Contract Price or Contract Time, the Contractor must submit an affidavit, certifying that the amount claimed accurately reflects any Delay and all costs that the Contractor is entitled from the occurrence of the claimed event and that supporting cost and pricing data are current, accurate, complete and represent the Contractor's best knowledge and belief. The affidavit must be signed in the same manner as required in Item 6 of Section 00100.
- 11.2 **Recommendations or Decisions from the Professional:** For claims under \$100,000.00, if requested in writing by the Contractor, the Professional will render a recommendation or decision within thirty Calendar Days after the request and the Owner will issue, if necessary, a determination within thirty Calendar Days after the Professional's recommendation or decision. For claims exceeding \$100,000.00, the Professional will issue its recommendation or decision and the Owner, if necessary, will issue its determination, within sixty Calendar Day.

If the Professional denies a Contractor claim or agrees with an Owner claim, that decision must be final and binding on the Contractor, without any determination by the Owner, unless the Contractor files a request for a presentation with the Director-DCD within thirty Calendar Days. To the extent that any recommendation from the Professional is partly or wholly adverse to a claim from the Owner, that determination must be final and binding on both the Owner and Contractor unless either party files a request for a presentation with the Director-DCD within thirty Calendar Days. If the Professional recommends payment of any Contractor claim which increases the Contract Price, that recommendation is subject to the Owner's written approval. In the event any such determination from the Owner is partly or wholly adverse to the preceding recommendation from the Professional, that determination must be final and binding on the Contractor unless the Contractor files suit in the Michigan Court of Claims within thirty Calendar Days after receipt of such determination. The claim is waived if not made in accordance with these requirements.

If either the Contractor or Owner is not satisfied with any decision of the Professional on a claim, that party must, within thirty Calendar Days of receiving that decision, file a written appeal with complete supporting documentation with the Director-DCD. The Director-DCD has discretion concerning the allowability of evidence submitted and is not bound to any rules of evidence. If the right to a presentation is waived or if a presentation is conducted and the dispute remains unresolved, the Director-DCD, at the Director-DCD's sole option, must specify in which forum the dispute must be conducted by issuing a written determination to the Contractor that the dispute if the Contractor so elects, be submitted in writing to the Michigan Court of Claims. The Director-DCD's determination on the dispute is final and binding on the Contractor unless the Contractor files a lawful action in the Michigan Court of Claims within thirty Calendar Days after receiving the Director-DCD's determination. After settlement or final adjudication of any claim, if payment by the Contractor is not made to the Owner, the Owner may offset the appropriate amounts against (a) payments due to the Contractor under any other Contract between the Owner and the Contractor, or (b) any amounts for which the Owner may be obligated to the Contractor in any capacity. The Director-DCD may designate someone to fulfill the Director-DCD's duties under these terms and conditions.

END OF SECTION 00700

SECTION 00750 SPECIAL WORKING CONDITIONS

1. The Work is for the Department of Environment, Great Lakes, and Energy and their special working conditions are included in Appendix II. Contractor must comply with all security regulations. Access to and egress from the buildings and State Agency grounds must be via routes specifically designated by the State Agency. Whenever the Contractor has caused an operating security or fire system to go out of service or left unsecured openings in existing facilities or security fences, the Contractor must furnish a security guard or fire watch acceptable to the Owner to maintain security of the facility outside of normal working hours and will be held responsible for any losses from the facility.
2. The Contractor must maintain, at all times, dust control measures to the satisfaction of the Owner.

3. The Contractor shall conduct work between the hours of 8:00 AM and 6:00 PM, or dusk, whichever is earliest, Monday through Friday. Requests to conduct weekend work or work outside of the daily hourly schedule must be submitted in writing and approved by the Owner.
4. Verification of soil remediation sampling will be conducted through discrete sampling at the direction of the professional and the owner. Soil samples will be collected from the floors and sidewalls of the excavation with assistance from the excavator operator. Additional time is included within the bid specs to allow for the sampling to be conducted. EGLE requires a 24-hour turnaround time on verification samples. Additional excavation and samples may be collected dependent upon the results.
5. The contractor shall backfill only when analytical data is reviewed and approved by the Professional and Owner. Excavation will continue until Owner determines excavation is completed.

END OF SECTION 00750

SECTION 00800 SUPPLEMENTARY CONDITIONS

1. The following conditions must supplement the general conditions:

Revise Article 6.6 as follows:

Quantities as listed have been carefully estimated but are not guaranteed. The State reserves the right to increase or decrease the quantities of the Work to be performed at the Unit Price by amounts up to 50 percent of the listed estimated quantities. For Unit Price Work, the Contractor must promptly inform the Professional in writing if actual quantities differ from the estimated quantities for any item. For quantities over 150% or below 50% of the estimated quantity, the Owner may negotiate with the Contractor, or direct a unilateral change based on the Contractor's original bid for unit price items or bid that Work under separate contract. Any adjusted Unit Price agreed upon by the Owner will only apply to the actual quantities above 150% or below 50% of the estimated quantity. No adjustment due to quantity variations must be allowed (a) unless the Contractor met the notice requirements, or (b) if any Unit Price increase results in whole or in part from any act or omission within the control of the Contractor (errors in the Contractor's Bid, unbalanced Unit Prices, etc.). If a dispute arises between the Owner and the Contractor on the adjusted Unit Price, the Contractor must carry on the Work with due diligence during the disputes/disagreements.

The Contractor will coordinate site work and scheduling with the Professional.

The Contractor must obtain pre-approval for on-site staging and traffic areas and coordinate work as to not adversely impact adjacent business operations to the satisfaction of the Professional and on-site business owner/operator.

The Contractor will coordinate work involving the relocation, disconnection/reconnection of utilities as to not adversely impact onsite and adjacent property operations to the satisfaction of the Professional and on-site owner/operator.

The Contractor must notify MISS DIG to locate and mark utilities on properties that are not State properties. It is the CONTRACTOR's responsibility to verify the location of all underground utilities located within the limits of work prior to conducting onsite activities. In addition, the Contractor must be responsible for immediately notifying the Owner of any contact with or damage to Underground Utilities, and for the safety, protection of and repairing any damage done to any Work, surface and subsurface facilities. If the Contractor encounters Underground Utilities that are inaccurately located by the Contract Documents or not previously located/marked, which could not be reasonably have been seen, the Owner may issue a written Contract Change Order to amend the Contract Price or Time through the Bulletin authorization process.

Liability insurance must be endorsed to list as additional insureds the Property owner, City of Detroit. Worker's Compensation, Employer's Liability Insurance and all other liability insurance policies must be endorsed to include a waiver of rights to recover from the Owner, Professional, and the other additional insureds. The Contractor's liability insurance must remain in effect through the Correction Period and through any special correction periods. For any employee of the Contractor who is resident of and hired in Michigan, the Contractor must have insurance for benefits payable under Michigan's Worker's Compensation Law. For any other employee protected by Worker's Compensation Laws of any other state, the Contractor must have insurance or participate in a mandatory state fund, where applicable, to cover the benefits payable to any such employee. These requirements must not be construed to limit the liability of the Contractor or its insurers. The Owner does not represent that the specified coverage or limits of insurance are sufficient to protect the Contractor's interests or liabilities.

END OF SECTION 00800

SECTION 00900 ADDENDA

1. Each Bid submittal must include acknowledgement of receipt and review of all Addenda issued during the Bidding period.

END OF SECTION 00900

DIVISION 01

GENERAL REQUIREMENTS

SECTION 01010 SUMMARY OF WORK

1. General

1.1 General information covering the "Scope of Work" is specified on the Invitation to Bid. Additional information is as follows:

(a). This project involves the following tasks

- Removal and proper disposal of suspect UST system(s) and any other UST system components (e.g., fill ports, dispenser islands, piping, etc.).
- Removal and proper disposal of contaminated soils within the subject property boundaries, and potentially extending onto the northern adjoining undeveloped property.
- Removal and proper disposal of contaminated groundwater as necessary to facilitate excavation activities.
- Collection of post-excavation soil verification samples.
- Backfill of excavation with certified clean materials, compaction, and grading to match existing grades.
- Restoration of the site with topsoil, grass seeding, and repair of any damage to the public infrastructure or right-of-way.

This project is described in general detail in this section to provide background to Contractors. This project will include the following general tasks:

- Project administration,
- Pre-construction activities,
- MISSDIG notification and utility clearance,
- Mobilization,
- Site security,
- Dewatering as necessary,
- Locate, cut and cap, support, protect, and as necessary reroute existing utilities to facilitate the Work in coordination with utility owners,
- Protect adjacent private property from damage. Protect, or remove and replace, adjacent public sidewalk,
- Remove and dispose existing site surface paving as necessary to facilitate the Work,
- Excavation and off-site disposal of contaminated soil (and groundwater if present),
- Backfill, engineered compaction and restoration of the Work area,
- Demobilization, and
- Project submittals.

The following summary of background information is presented in the Remedial Action Work Plan prepared by AKT Peerless and is based on reference information presented in Appendix VI.

- The Site consisted of undeveloped land from at least 1926 until between 1935 and 1940, when it was improved with a gasoline service station. The northern portion of the building was used for automobile servicing and the southern portion was a filling station. Three gasoline tanks were depicted on the 1940 through 1961 Sanborn maps. The service station operated until sometime between 1962 and 1967. The northern portion of the building was converted into a storefront and was occupied by a produce company in 1967, an alarm company in 1972, and, according to city directory listings, was vacant by 1977. Between 1993 and 1997, the building was razed. Currently, the Site is undeveloped land covered with grass.
- In December 2022, SME conducted a subsurface investigation on behalf of EGLE under their Expanded Triage Program. The subsurface investigation included a geophysical survey, the advancement of 15 soil borings, and the collection of 30 soil samples for laboratory analysis of volatile organic compounds (VOCs) and/or polynuclear aromatic hydrocarbons (PNAs).
- The geophysical survey did not identify anomalies indicative of USTs; however, anomalies consistent with a metallic object, building foundation, and utilities were noted. In addition, petroleum-contaminated soil was identified at concentrations exceeding residential Risk-Based Screening Levels (RBSLs) for Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP), as well as the residential Volatilization to Indoor Air Pathway (VIAP) screening levels.
- Based on EGLE file information, a confirmed release (REL-0013-23) was created by EGLE for the subject property on January 13, 2023.

As discussed in further detail in the Remedial Action Work Plan included within Appendix VI, it is the goal of this work to remove all contaminated soil from this site. The excavation area has been estimated by the Professional based on previous soil and groundwater sampling. The maximum depth of proposed excavation is approximately 15' below grade.

For purposes of bid comparison, 10,000 tons shall be assumed as the designated tonnage of non-hazardous soil to be excavated, transported, and disposed; however, the excavation will continue until directed by Owner and Professional.

Soil excavation will consist of conventional methods (i.e., excavator and bulk transport for landfill disposal). The deepest areas of the excavation will be located within the former UST basins. Due to the location of known impact relative to the property boundary, it may be necessary to protect adjacent alleys, roadways, and subsurface utilities with appropriate shoring methods.

The horizontal and vertical limits of the excavation will be defined during excavation activities. Specifically, the oversight consultant will conduct real-time soil screening activities utilizing a photo-ionization detector (PID) to evaluate for the presence of petroleum hydrocarbons. Excavation will continue in areas of impact until PID readings are at zero parts per million (ppm), verification of soil remediation sampling indicates that no contamination remains, and as directed by Professional and Owner.

Soil verification samples will be collected by the Professional prior to commencement of backfilling the excavation. The Contractor will be required to assist the Professional in the collection of the verification samples by utilizing the excavator bucket to bring soil from the proposed sample location to a practical sampling location. The excavation shall not be backfilled until laboratory analytical results are reviewed by the Professional and Owner and the Professional and Owner's approve backfilling. Third-party compaction testing is required during backfilling.

The accuracy of the depictions of the features on the figures included in this specification is based on the available information previously provided by the Owner and its representatives but cannot be guaranteed. The Contractor will be responsible for clearing the locations of all utilities in the work area prior to undertaking subsurface activity, including utilizing a private utility marking company to locate and mark all underground utilities in and around the areas that will be disturbed as necessary. Upon completion of the Work, the Contractor shall replace any temporary re-route of utilities with permanent routing to the satisfaction of the Owner.

Onsite surface and subsurface structures located adjacent to the proposed excavation are to be sufficiently protected from potential damages due to the Work by means determined by the Contractor. Removal of trees, only to the extent necessary to conduct the Work, is allowed by the Owner. Damage to the surface and subsurface structures located adjacent to the proposed excavation due to the Work shall be repaired at the Contractor's expense. It shall be the responsibility of the Contractor to protect personnel and surrounding structures as well as maintain excavation sidewall integrity.

During excavation activities, the potential exists for the excavation contractor to encounter one or more abandoned USTs. AKT Peerless prepared the bid specification to include the removal of two abandoned USTs during soil excavation activities. AKT Peerless estimated the USTs to be up to 10,000 gallons in size and contain up to 10,000 gallons non-hazardous petroleum and/or impacted water. In the event a UST is discovered during excavation activities, the excavation contractor is responsible for properly removing the UST in accordance with applicable regulations and guidelines including Michigan Department of State Police Codes for the "*Storage of Flammable and Combustible Liquids*" and the American Petroleum Institute's (API's) "*Removal and Disposal of Used Underground Petroleum Storage Tanks - API Recommended Practice 1604.*" UST removal activities include but are not limited to (1) accessing the UST for liquid disposal and/or inspection, (2) liquid recovery and disposal, (3) vapor freeing the UST, (4) removal, cutting, cleaning and readying for transport, and (5) transport and proper disposal. The contractor is responsible for providing executed tracking/disposal manifests to AKT Peerless for future submittal to EGLE.

Site restoration includes replacement of any damaged sidewalks and concrete curbing.

1.2 CONTRACTOR shall submit all required pre-construction and post-construction submittals to the PROFESSIONAL.

These include, but are not necessarily limited to:

1. Health and Safety Plan (HASP)
2. On-Site personnel's 40-hour OSHA HAZWOPER training records
3. Summary of Existing Conditions
4. Asbestos Abatement Plan
5. Work Plan
6. Schedule of Values
7. Submittals List (refer to all sections for submittal requirements)
8. Spill Control and Contingency Plan
9. Progress Schedule
10. Contractor Quality Control Plan
11. Dust Control Plan
12. Soil Erosion and Sedimentation Control Implementation Plan
13. Equipment cut sheets

14. Waste Profile(s)
15. Waste Disposal Approval Letter from the landfill
16. Daily construction reports
17. Waste manifests
18. Waste disposal tickets
19. Fill material load tickets
20. Data sheets and/or vendor certifications for materials used on site.
21. All necessary permits, including Right-of-Entry permits from the City of Detroit
22. Test results, data, and all other submittals as outlined in the Submittals paragraphs in various sections of these specifications.
23. Final Project Report.

1.3 Sequence of Construction: It is the intention and understanding that CONTRACTOR shall have control over the sequence or order of execution of the Work to be done under the Contract and over the method of accomplishing the required results, except as some particular sequence or method may be distinctly demanded by the Drawings and the Project Manual or by the expressed provisions of the Contract. PROFESSIONAL may, however, make such reasonable requirements as may, in PROFESSIONAL's judgment, be necessary for the proper and effective protection of Work partially or wholly completed, and to these requirements CONTRACTOR shall conform. The following sequence of construction is provided to identify the major elements of the Work that may impact the schedule:

1. Mobilization;
2. Soil erosion and sedimentation control;
3. Site preparation and temporary facilities;
4. Pre-construction surveying and control;
5. ACM and hazardous materials abatement
6. Traffic Control Measures;
7. Demolition of Site building
8. Waste characterization and disposal approval from disposal facility;
9. Excavation, transportation and disposal of excavation soils, construction debris;
10. Backfill and compaction;
11. Replace sidewalks and other ROW structures;
12. Site restoration and surveying; and
13. Demobilization and project closeout.

1.4 Project Requirements

- Existing Site Conditions and Restrictions - The CONTRACTOR shall:
 1. Document all existing conditions with a video and a topographic survey of all features within the limits of work.
 2. Obtain all necessary permits to perform the work, and only use truck haul routes approved by the City.
 3. Establish a temporary construction privacy fence along the limits of work.
 4. Implement a SESC plan as indicated in Section 31 25 00 and the Contract Drawings.
- Preparatory Activities include but are not limited to:
 1. Acquisition of required permits from local authorities and utilities.
 2. Mobilization.
 3. Establishment of survey control and layout of work.
 4. Traffic control measures.
 5. Installation of erosion control measures.
 6. Installation of temporary construction privacy fence.
 7. Verification of the location of all underground utilities and structures within the limits of the work.
 8. Installation of decontamination facilities.
 9. Coordination with other Contractors that may complete other work at the site
- The CONTRACTOR shall prepare and obtain and pay for all labor, materials, equipment, tools, water, light, power, transportation, supervision, and all other services and facilities necessary to complete the Work within the specified schedule.
- The CONTRACTOR shall provide all necessary local and State permits and licenses to conduct the Work, except as listed in this Specification section.
- The CONTRACTOR shall utilize all measures necessary to ensure all potential for environmental impacts from the Work are mitigated.
- The CONTRACTOR shall comply with applicable codes and regulations of authorities having jurisdiction. Submit copies of inspection reports, notices and similar communications to PROFESSIONAL.
- The CONTRACTOR shall notify all owners of public utilities within the right-of-way or easement for the purpose of establishing the approximate locations of the utilities in accordance with the requirements of Act

No. 53 Public Acts of 1974 of the State of Michigan. CONTRACTOR shall notify MISS DIG-Utility Communication System, 800-482-7171, three working days prior to starting any excavation with power equipment. CONTRACTOR shall be responsible for verifying the location of all underground utilities by magnetic or other type instruments before beginning excavation work.

- Verify dimensions indicated on drawings with field dimensions before fabrication or ordering of materials. Do not scale drawings.
- Notify PROFESSIONAL of existing conditions differing from those indicated on the Drawings. Do not remove or alter structural components without prior written approval.
- Intent: Drawings and specifications are intended to provide the basis for proper completion of the work suitable for the intended use of the OWNER. Anything not expressly set forth, but which is reasonably implied or necessary for proper performance of the project
- Writing Style: Specifications are written in the imperative mode. Except where specifically intended otherwise, the subject of all imperative statements is the CONTRACTOR. For example, "Provide pump" means "CONTRACTOR shall provide pump."
- CONTRACTOR shall perform excavation using means and methods that will prevent potential cave-ins or cause potential sloughing and use safe excavation practices as prescribed by OSHA. Such protective system may include sloping. Alternatively, if the CONTRACTOR decides to use an excavation of support or if such systems are required per the Contract Documents, the CONTRACTOR shall communicate with the PROFESSIONAL prior to proposing such method in their bid submittal. The CONTRACTOR must maintain the appropriate slope as prescribed by OSHA based on the soil type.
- CONTRACTOR shall repair and/or replace any damages that occurred to existing site features outside the limits of work as a result of activities performed at the Site.

1.5 Contractor Personnel Requirements

- The CONTRACTOR shall furnish a list of contact personnel of the CONTRACTOR and contact personnel of lower tier Subcontractors, including addresses and telephone numbers for use in the event of an emergency. As changes occur and additional information becomes available, correct and change the information contained in previous lists.
- CONTRACTOR shall provide training certification that all personnel have applicable training for the work being performed. At a minimum this includes, but is not necessarily limited to:
 1. All personnel shall have HAZWOPER 40-hour training and up to date 8-hour refresher.
 2. A minimum of one person shall have HAZWOPER Supervisor 8-hour certification.

1.6 Contractor Access and Use of Site

- Ensure that CONTRACTOR's personnel employed on site become familiar with all rules and restrictions of local, state and federal agencies having jurisdiction. Keep within the limits of the Work and avenues of ingress and egress as shown on the contract documents. CONTRACTOR may use alternate avenues of ingress and egress if previously approved by PROFESSIONAL in writing.
- The CONTRACTOR's equipment shall be conspicuously marked for identification.
- Limit use of the Site to construction activities in areas indicated on the drawings within the Limits of Work. Portions of the site beyond areas in which construction operations are indicated are not to be disturbed.
- Keep driveways and entrances serving the premises clear and available to PROFESSIONAL and OWNER. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site. Areas for CONTRACTOR's trailers, equipment and material storage and CONTRACTOR's employee parking shall be as indicated on the Drawings or agreed by OWNER prior to the start of construction.

1.7 The Agency will provide the following Work:

- (a) State Salvage: The State reserves the right to salvage certain items and equipment and those salvaged items will be identified to the Bidder at the time of their inspection of the proposed Work. The State will remove salvaged items before commencement of the Work.
- (b) Moving Furnishings and Equipment: The Contractor must give timely notice to the State Agency representative identified in the pre-construction meeting of all furnishings, window covering and movable equipment that will interfere with the Work or which the Contractor cannot protect with coverings of paper, plastic, drop cloths or clean tarpaulin. The Contractor must furnish, install, maintain, and remove all coverings used to protect furnishings, window coverings and movable equipment.

END OF SECTION 01010

SECTION 01020 ALLOWANCES

1. Allowances

1.1 Cash Allowances:

- (a) Bidders must include in their Base Proposal Sum an allowance of \$0 to cover NA specified in Section NA. The base bid shall include bonds and insurance on the value of the allowance.
- (b) Monies in the allowance will be used only if directed in writing by the Project Director and Professional.
- (c) Payments under a Cash Allowance must be on actual cost and exclude cost for supervision, handling, unloading, storage, installation, testing, fee, premiums for bond and insurance, etc.
- (c) Unused allowances will be deducted from the contract amount through contract change order.

1.2 Provisional/Contingency Allowances:

- (a) Bidders must include in their Base Proposal Sum a contingency allowance of \$10,000. The base bid shall include bonds and insurance on the value of the allowance.
- (b) Monies will be used in the contingency allowance only if directed in writing by the Project Director and Professional.
- (c) Payments under a Provisionary Allowance will include not only the purchase/furnished cost of the materials and equipment involved, but also all related labor costs, subcontract costs, construction equipment costs, general conditions costs and Fee, provided they are calculated in accordance with the requirements of the contract documents.
- (c) Unused allowances will be deducted from the contract amount through contract change order.

END OF SECTION 01020

SECTION 01025 MEASUREMENT AND PAYMENT

1. **Schedule of Values:** Unless noted otherwise, before mobilization and start of construction, the Contractor must submit a Schedule of Values to the Professional for review and approval, of the various tasks that must be performed to complete all the Work. The schedule must show each task and the corresponding value of the task, including separate monies allocated for General Condition items and Project close-out. The aggregate total value for all tasks must be equal to the total Contract sum.

- This section specifies administrative and procedural requirements for Measurement and Payment. Payment for Work under this Contract shall be made on a unit price or lump sum basis for work actually completed. Final measurements of the work shall be taken by the PROFESSIONAL to determine the actual amount of Work done, to be applied to determine the total cost. The method of applying unit prices shall be as herein specified.
- Payment shall only be made for items listed in the Bid Schedule. The costs of all other Work required for a complete Project shall be included in the prices.
- Methods of measurements and payment for lump sum and unit prices are specified below. Each unit or lump sum price stated in the Bid shall constitute full compensation including all labor, materials, tools, equipment, incidentals, testing, and all fees and taxes, as herein specified, for each item of the Work completed.
- For unit price items, the CONTRACTOR shall be paid for the actual amount of work accepted and for the actual amount of materials in-place, materials used, and materials transported and disposed during the execution of this project.
- For lump sum items, the CONTRACTOR shall be paid on the basis of actual work accepted until the Work item is completed. Upon completion of the item, 100 percent of the lump sum price may be paid, subject to the limitation of the Contract Documents.
- The CONTRACTOR shall provide all materials, labor, tools, equipment, and incidentals necessary to the completed work for performing all work contemplated and embraced by the Contract; for all loss or damage arising from the nature of work, or from the action of the elements, or from any unforeseen difficulties which may be encountered during the execution of every description connected with the execution of the Work except as provided herein; and for all expenses incurred in consequence of the suspension of the work as herein authorized.
- The CONTRACTOR will be paid for the material actually used at the site. No compensation will be made for the material that is bought and stored, but never used at the site. No compensation will be made for damaged material.

- All units of measurement shall be standard United States convention as applied to the specific items of Work by tradition and as interpreted by the PROFESSIONAL.
- Incidental Work-
- No extra payment will be made for incidental work considered to be included in the total cost stipulated for the pay items. Incidental work items for which separate payment is not measured include, but is not limited to, the following items:
 1. Restoration of disrupted areas not designated on the Drawings;
 2. Cooperation with the PROFESSIONAL and others;
 3. Disposal of sampling materials and waste samples;
 4. Health and safety requirements;
 5. Quality control testing;
 6. Job site administration, including project meetings;
 7. Removal and disposal of decontamination fluid and solids;
 8. Decontamination and disposal of materials used to perform decontamination;
 9. Cooperation with other Contractors and others;
 10. Air Monitoring;
 11. Environmental protection;
 12. Dust Control;
 13. Steel Scrap for recycling and/or reuse; and
 14. Miscellaneous items for recycling and/or reuse.
 15. PPE and miscellaneous equipment necessary for the work, but not specifically included in other bid items.
 16. Excavation dewatering and disposal related to perched groundwater and stormwater infiltration.

Eliminated Items

The OWNER and PROFESSIONAL reserve the right to delete some, or all, of the pay items and / or the items described below.

Item No. 1 – Pre-Construction Submittals and Permits

- I. Description. Work for this item includes preparation of, and revisions as required by Owner and Professional reviews, or regulating body, and final acceptance of work plan, notifications, permits, and submittals. Work for this item include, but is not limited to: 1) Submittal of a site/project specific health and safety plan; an air monitoring plan, and applicable safety/training certificates and licensures of Contractor's personnel that will engage in this project; 2) Submittal of Work Plan describing means and methods of activities including but not limited to UST removal, soil excavation, sidewalk and approach replacement, and site restoration; 3) Submittal of Contractor's Quality Control Plan, including compaction density testing; 4) Procurement and submittal of all necessary permits and/or notifications required to complete the scope of work; 5) Submittal of Sedimentation and Soil Erosion Control (SESC) plan including design and cut sheets; 6) Waste disposal characterization and approvals (including analytical test results), bill-of-lading, manifests, and weight tickets, and 7) all other submittals listed throughout the Contract Documents.
- II. Measurement. This item will be measured on a Lump Sum basis.
- III. Payment. Payment shall be made at the contract lump sum price for work plan, permits, and submittals, which shall be full compensation for the successful preparation, procurement, and submittal of all relevant items. This item also includes bonds and insurance premiums. Payment for this item will be made upon acceptance of the work plan, permits, and submittals by the Professional and Owner.

Item No. 2 – Mobilization, Temporary Facilities, and Demobilization

- I. Description. Work of this item includes the mobilization of all equipment and personnel to the Site for the completion of the Work; performing private utility locating services and protecting such utilities, if applicable; and furnishing, installing, and maintaining temporary facilities and controls as described in the Specifications and required for the execution of the work. Temporary facilities and controls are expected to include, but are not limited to, power, water, as required, sanitary facilities, office/trailer space as required; Site security and protection measures, temporary barricades, and equipment/material/waste storage areas (e.g., equipment laydown areas, container storage areas, waste storage areas).
- II. Measurement. This item will be measured on a Lump Sum basis.
- III. Payment. Payment shall be made at the contract lump sum price for mobilization and site preparation, which shall be full compensation for mobilizing and furnishing all labor, equipment, tools, and materials required for site preparation and for other work and expenses incidental thereto for which payment is not provided on other items. Payment for this item will be made upon review and acceptance by Professional and Owner for the total value listed for this item.

Item No. 3 – Underground Storage Tank Removal, Cleaning, Loading, Transportation, and Disposal

- I. Description. Work of this item includes all activities including preparatory activities and equipment required for removal of up to two USTs and associated piping. The approximate location of identified USTs is provided in the drawings. All USTs will need to be removed in accordance with Section 02420.

- II. Measurement. This item will be measured on a unit rate basis.
- III. Payment. Payment shall be made at the contract unit price per UST removal, which shall be full compensation for furnishing all labor, equipment, tools, and other materials required for removing the USTs, cleaning, preparing for transport, loading, disposal, and expenses incidental thereto for which payment is not provided in other items. It is expected each UST will be properly removed of all contents and cleaned for disposal as a recycled material. Bill-of-lading will be prepared for each UST transported to the recycling facility. Payment for this item will be made upon review and acceptance by Professional and Owner for the total value listed for this item.

Item No. 4 – Excavation, Loading, Transportation, and Disposal of Non-Hazardous Contaminated Soil

- I. Description. Work of this item includes all labor, materials, equipment, and notifications required to excavate, stage, load, transport and dispose non-hazardous petroleum impacted soils generated while performing this Work. This item shall include any and all associated tipping fees, fuel surcharges, or other costs associated with transportation and disposal. This item will also include Contractor's costs involved in performing nuisance dust monitoring and PID monitoring in the working zone for worker safety. Details of the air monitoring requirements to be met by the Contractor are available in 02223.
- II. Measurement. This item will be measured on a unit rate basis.
- III. Payment. Payment will be made at the contract unit price per ton based on fully executed manifests and weight tickets from certified scales at the disposal facility, which shall be full compensation to excavate, load, containerize, sample and analyze to identify disposal requirements and obtain disposal approval, transport, and dispose all non-hazardous soil removed as part of this Work to a licensed/approved disposal facility.

Item No. 5 – Remove, Recycle, and Replace City of Detroit Public Sidewalk, Approaches, Curbs, and Green Space

- I. Description. Work of this item includes all labor, materials, and equipment necessary to demolish, recycle and replace the applicable City of Detroit public sidewalks and approaches along the limits of the Site and as designated in the drawings. It is assumed all sidewalks at the site will be replaced. The approaches will be replaced as green space and will include the transport, placement, grading, and seeding of the green belt areas as shown in the designated drawings. Replacement of sidewalks and curbing shall be in accordance with the City of Detroit's guidelines and requirements and other pertinent local authorities. Any required design and permits for this Work are also included in this pay item. This bid item shall include any fuel surcharges, transportation, placement, forms, material, and other costs associated with removing, recycling, and replacing the specifically designated sidewalks, curbing and approaches.
- II. Measurement. This item will be measured on a lump sum basis.
- III. Payment. Payment shall be made at the contract lump sum price for removing, recycling/disposal, and placement of the designated sidewalks, approaches, curbing, and green belt areas which shall be full compensation for mobilizing and furnishing all labor, equipment, tools, and materials, applicable permits including concrete as well as other associated construction materials required for completing construction of sidewalks as prescribed by City of Detroit and other pertinent local authorities. based on disposal tickets from the disposal facility upon review and acceptance by Professional and Owner.

Item No. 6 – Non-hazardous Infiltration Liquid Removal, Transportation, and Disposal

- I. Description. This item includes all labor, equipment, and materials needed to dewater the excavation area as a result of precipitation accumulation (if applicable) effectively to perform the work as described in the contract documents including decontamination water management, stormwater management runoff at the Site. This item includes potential treatment (if required) of the resulting water and discharge to POTW or disposal at approved liquid waste disposal facility. This bid item includes any permitting or fees associated with water disposal or discharge to POTW. The Contractor may choose to install an onsite treatment system or collect water in storage tanks for offsite disposal.
- II. Measurement. This item will be measured on a unit rate basis.
- III. Payment. Payment will be made on the basis of a unit rate per gallon from fully executed waste manifests at the disposal facility. Payment for this item will be made upon review and acceptance by Professional and Owner.

Item No. 7 – Non-hazardous UST Fluids Removal, Transportation, and Disposal

- I. Description. This item includes all labor, equipment, and materials needed to remove liquids and sludge/sediment from each UST system and spillage effectively to perform the work as described in the contract documents. This item includes waste characterization and approval, liquid collection, potential treatment, if required of the resulting water, transportation, and disposal at approved liquid waste disposal facility.
- II. Measurement. This item will be measured on a unit rate basis.
- III. Payment. Payment will be made on the basis of a unit rate per gallon from fully executed waste manifests at the disposal facility. Payment for this item will be made upon review and acceptance by Professional and Owner.

Item No. 8 – Provide, Place, and Compact MDOT Class II Backfill Sand

- I. Description. Work for this item includes all labor, materials, and equipment necessary to provide, stage, place, and compact MDOT Class II sand backfill material within the limits of the excavation. The provided backfill shall be below current State of Michigan EGLE Part 201 Criteria and Screening Levels and be transported from a virgin source (i.e., MDOT approved sand pit). This bid item shall include any fuel surcharges, or other costs associated with providing copies of virgin fill

source documentation, loading, transport, staging, placing, compacting and testing including equipment for placement and density testing and reporting of the fill in 1-foot lifts. The Contractor shall be responsible for performing compaction density testing to document the density achieved on-site and is included in this bid item.

II. Measurement. This item will be measured on a unit rate basis.

III. Payment. Payment shall be made at the contract unit price per ton based on weigh tickets from certified scales at the source pit. Payment shall be made upon review and acceptance of weight tickets and compaction density testing results by Professional and Owner.

Item No. 9 –Site Restoration Activities

I. Description. Work of this item includes all labor, materials, and equipment necessary to deliver, place, top 4-inches with topsoil to be graded, followed by application of a seeding mix, mulching and all cleanup activities at the Site. The Contractor must provide written proof the topsoil source is from a virgin source or licensed landscape supply location and provide upon request analytical data through an analytical report that demonstrates that all analytical in the topsoil is below State of Michigan EGLE Part 201 Criteria and Screening Levels. This bid item shall include any fuel surcharges, or other costs associated with hauling, staging, placement and grading of topsoil followed by application of an approved seeding mix and mulching to the satisfaction of the Professional and technical specifications.

II. Measurement. This item will be measured on a Lump Sum basis.

III. Payment. Payment shall be made at the contract lump sum price for topsoil application and grading which shall be full compensation for mobilizing and furnishing all labor, equipment, tools, and materials including the topsoil from the approved source and seeding mix as well as other associated materials required for completing site restoration and cleanup. Payment for this item will be made upon review and acceptance by Professional and Owner for the total value listed for this item.

Item No. 10 – Cut and Cap Utility Conduit

I. Description. Work of this item includes disconnecting utility feed lines from the subject building, cutting the utility conduit at the property boundary, and sealing (i.e. capping) the conduit with compatible material to form a durable, tight-fitting seal. This item includes any conduit or utility 12-inches or less in diameter.

II. Measurement. This item will be measured on a unit (per conduit) basis.

III. Payment. Payment shall be made at the contract unit price (per conduit) upon review and acceptance by Professional and Owner.

Item No. 11 – Cut and Cap Utility Conduit

I. Description. Work of this item includes disconnecting utility feed lines from the subject building, cutting the utility conduit at the property boundary, and sealing (i.e. capping) the conduit with compatible material to form a durable, tight-fitting seal. This item includes any conduit or utility greater than 12-inches and less than 24-inches in diameter.

II. Measurement. This item will be measured on a unit (per conduit) basis.

III. Payment. Payment shall be made at the contract unit price (per conduit) upon review and acceptance by Professional and Owner.

Item No. 12 – Provisionary Allowance

I. Description. This item shall be used for unanticipated or unquantified tasks that are required to complete the Work. No work shall be performed this is outside of the original scope of work without prior written authorization of the Owner.

II. Measurement. This item will be measured as units consistent with those specified in the Bid Schedule.

Payment. Payment will be made at the contract unit price based on disposal tickets or weigh tickets from the disposal facility, or surveyed field measurements witnessed by the Professional upon review and acceptance by Professional and Owner.

END OF SECTION 01025

SECTION 01030 ALTERNATES

1. **Use of Alternates:** Determination of the lowest three Bidders shall be based on the sum of the Base Bid and any additive and deductive Alternates the Owner accepts, in the order in which they are listed only. The Owner will accept an Alternate only if all other previously listed Alternates are also accepted unless acceptance by the Owner of Alternates in a different order does not affect determination of the lowest three bidders in any way.

2. **Execution:** (a) Coordinate pertinent related Work and modify surrounding work as required to complete the Project for each alternate.

(b) Description of Alternates:

END OF SECTION 01030

SECTION 01040 COORDINATION

1. Project Coordination:

- (a) Before beginning Work the Contractor must coordinate with the State Agency representative to implement the schedule for the Project. Once the Project is started, it must be carried to completion without delay. (b) Any building utility service interruptions or outages including security required by the Contractor in performing the Work must be prearranged with the staff of the State Agency and must occur only during those scheduled times. (c) The Contractor is not responsible for removing room furnishings unless is required by the Contract Documents.

2. Cutting and Patching:

- (a) The Contractor must do all cutting, fitting, or patching of the Work that may be required to make its several parts fit together properly or make new Work join with the existing structure. The Contractor must take proper precautions so as not to endanger any existing Work. The Contractor must not cut or alter existing structural members or foundations unless specifically required by the Contract Documents.
- (b) Holes or openings cut in exterior walls and roofs for installation of materials or equipment must be waterproofed by appropriate, approved materials and methods.
- (c) All adjacent finished surfaces that are damaged by the new Work must be patched with materials matching existing surfaces. Joints between patched and existing material must be straight, smooth, and flush. Workers skilled in its installation must apply all patching material.

END OF SECTION 01040

SECTION 01050 FIELD ENGINEERING

1. When applicable, the Contractor must employ a surveyor who must establish and maintain all lines and levels required for laying out and constructing the Work. The Contractor agrees to assume all responsibility due to inaccuracy of any Work of the surveyor, and including incorrect benchmarks, their loss or disturbance. Upon completion of the Project, the Contractor must submit two copies of site layout Drawings prepared for the Project and certified by the surveyor.

END OF SECTION 01050

SECTION 01060 REGULATORY REQUIREMENTS

1. **Laws:** The Contractor and its Subcontractors/Suppliers must comply with all Federal, State, and local Laws applicable to the Work and site.
2. **Codes:** All Works must be provided in accordance with the State Construction Code Act, 1972 PA 230, as amended, MCL 125.1501 et seq., International Building and Residential Codes and all applicable Michigan construction codes and fire safety including but not limited to: Michigan Building Code, Michigan Residential Code, Michigan Uniform Energy Code, Michigan Electrical Code, Michigan Rehabilitation Code for Existing Buildings, Michigan Mechanical Code, Michigan Elevator Code and Michigan Plumbing Code. If the Contractor observes that any Contract Document conflicts with any Laws or the State Construction Code or any permits in any respect, the Contractor must promptly notify the Professional in writing. If the Contractor provides any Work knowing or having to reason to know of such conflict, the Contractor must be responsible for that performance.
3. **Permits:** All required construction permits must be secured and their fees including inspection costs must be paid by the Contractor. The time incurred by the Contractor in obtaining construction permits must constitute time required to complete the Work and does not justify any increases to the Contract Time or Price, except when revisions to the Drawings and/or Specifications required by the permitting authority cause the Delays. The Contractor must pay all charges of Public Utilities for connections to the Work, unless otherwise provided by Cash Allowances specific to those connections. The following permit fees will be paid by the Owner: None.
4. **Taxes:** The Contractor must pay all Michigan sales and use taxes and any other similar taxes covering the Work that are currently imposed by legislative enactment and as administered by the Michigan Department of Treasury, Revenue Division. If the Contractor is not required to pay or bear the burden or obtains a refund of any taxes deemed to have been included in the Bid and Contract Price, the Contract Price must be reduced by a like amount and that amount, whether as a refund or otherwise, must ensure solely to the benefit of the State of Michigan.

5. **Safety and Protection:** The Contractor and its Subcontractors/Suppliers must comply with all applicable Federal, State, and local Laws governing the safety and protection of persons or property, including, but not limited to the Michigan Occupational Safety and Health Act (MIOSHA), 1974 PA 154, as amended, MCL 408.1001 et seq., and all rules promulgated under the Act. The Contractor is responsible for all damages, injury or loss to the Work, materials, equipment, fines, penalties as a result of any violation of such Laws, except when it's due to the fault of the Drawings or Specifications or to the Act, error, or omission of the Owner or Professional. The Contractor is solely responsible for initiating, maintaining, and supervising all safety precautions and programs and such responsibility must continue until such time as the Professional is satisfied that the Work, or Work inspected, is completed and ready for final payment. In doing the Work and/or in the event of using explosives, the Contractor must take all necessary precautions for the safety of, and must erect and maintain all necessary safeguards and provide the necessary protection to prevent damage, injury or loss to: (a) all employees on the Work and other persons who may be affected by the Work, (b) all the Work and materials and equipment to be incorporated into the Work, whether stored on or off the site, and (c) other property at or adjacent to the site, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and Underground Utilities not designated for removal, relocation or replacement. In the event of severe weather, the Contractor must inspect the Work and the site and take all reasonably necessary actions and precautions to protect the Work and ensure that public access and safety are maintained.
6. **Fire Hazard Conditions:**
 - (a). The fire hazard classification of finish materials where used in the specification must be in accordance with the current Michigan Building Code.
 - (b) Classification must be determined by tunnel test in accordance with National Fire Protection Association (NFPA-255), American Society for Testing Materials (ASTM E-84) or Underwriters' Laboratories, Inc. (UL-723).
7. **Flame/Smoke Resistance Standards:** The Contractor must provide carpeting complying with "Class B" requirements as set forth in Michigan Department of State Police State Fire Safety Board "Health Care Facilities Fire Safety Rules' R29.1243, Rule 243, when tested in accordance with the following procedures:
 - (a) Tunnel Test: Test for surface burning characteristics, with ratings for flame spread, fuel contribution, and/or smoke density; ASTM E 84, UL 723, or NFPA No. 255.
 - (b) Pill Test: Test for flammability; ASTM D 2859, or DOC FF-1-70.
 - (c) Floor Radiant Panel Test: Test for burning under varying radiant energy levels; ASTM E 648, with minimum average radiant flux ratings not less than 0.45 watts/sq. cm.
 - (d) Smoke Density Test: Test in radiant heat chamber, with and without flame, for density of smoke generated; ASTM E 662, or NFPA No. 258, also known as NBS Smoke Density Chamber Test.
8. **Michigan Right-To-Know Law:** The Contractor and its Subcontractors/Suppliers must comply with MIOSHA, Michigan Right-to-Know Law (Public Act 80 of 1986) and the rules promulgated under it. The Act places certain requirements on employers to develop a communication program designed to safeguard the handling of hazardous chemicals through labeling of chemical containers and development and availability of Safety Data Sheets (SDS), and to provide training for employees who work with these chemicals and develop a written hazard communications program. The Act also provides for specific employee rights, including the right to be notified of the location of SDS and to be notified at the site of new or revised SDS within five Business Days after receipt and to request SDS copies from their employers. The Contractor, employer or Subcontractor must post and update these notices at the site.
9. **Environmental Requirements:** The Contractor and its Subcontractors/Suppliers must comply with all applicable Federal, State and local environmental Laws, standards, orders or requirements including but not limited to the National Environmental Policy Act of 1969, as amended, Michigan Natural Resources and Environmental Protection Act, P.A. 451 of 1994, as amended, the Clean Air Act, as amended, the Clean Water Act, as amended, the Safe Drinking Water Act, as amended, Pollution Prevention Act, as amended, Resource Conservation and Recovery Act, as amended, National Historic Preservation Act, as amended and Energy Policy and Conservation Act and Energy Standards for Buildings Except Low-Rise Residential Buildings, ANSI/ASHRAE/IESNA Standard 90.1.
10. **Nondiscrimination:** For all State Contracts for goods or services in amount of \$5,000 or more, or for Contracts entered into with parties employing three or more employees; in connection with the performance of Work under this Contract, the Contractor and its Subcontractors and Suppliers must comply with the following requirements:
 - 10.1 Not to discriminate against any employee or applicant for employment because of race, color, religion, national origin, age, sex (*as defined in Executive Directive 2019-09*), height, weight or marital status and take affirmative action to ensure that applicants are employed, and the employees are not subject to such discrimination. Such action must include, but is not limited to, the following: employment, upgrading, demotion or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training.

- 10.2 To state in all solicitations or advertisements for employees that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, age, sex, height, weight, or marital status.
- 10.3 To send, or have its collective bargaining representative send, each labor union or representative of workers with which there is a collective bargaining agreement or other contract or understanding, a notice advising the labor unions or workers' representative of the commitments under this provision.
- 10.4 To comply with the Elliot-Larsen Civil Rights Act, 1976 PA 453, as amended, MCL 37.2201 et seq.; the Michigan Persons with Disability Civil Rights Act, 1976 PA 220, as amended, MCL 37.1101 et Seq.; *Executive Directive 2019-09*; and all published rules, regulations, directives, and orders of the Michigan Civil Rights Commission (MCRC) which may be in effect on or before the date of Bid opening.
- 10.5 The Contractor must furnish and file compliance reports within the times, and using the forms prescribed by the MCRC. Compliance report forms may also elicit information as to the practices, policies, programs, and employment statistics of the Contractor and Subcontractors. The Contractor must permit access to Records by the MCRC and its agent for purposes of ascertaining compliance with the Contract and with rules, regulations, and orders of the MCRC.
- 10.6 If, after a hearing held under its rules, the MCRC finds that the Contractor has not complied with the Elliott-Larson requirements of the Contract Documents, MCRC may, as part of its order, certify its findings to the Administrative Board of the State of Michigan, which may order the cancellation of the Contract and/or declare the Contractor ineligible for future contracts with the State until the Contractor complies with the MCRC's order.
11. **Michigan Residency for Employees:** Fifty percent of the persons employed on the Work by the Contractor must have been residents of the State of Michigan for not less than one year before beginning employment on the Work. This residency requirement may be reduced or waived to the extent that Michigan residents are not available or to the extent necessary to comply with the federal funds used for the Project. This requirement does not apply to employers who are signatories to collective bargaining agreements that allow for the portability of employees on an interstate basis.

END OF SECTION 01060

SECTION 01090 REFERENCES

1. References will be made in an abbreviated alpha numeric form to specific standard specifications, reference publications and building codes of federal or state agencies, manufacturers, associations, or trade organizations. Such references will be identified by the alphabetic abbreviation which identifies the government agency, the association or organization followed by the rule, section or detail number that are to form a part of these specifications, the same as if fully set forth herein, and must be of latest issued date in effect three months before the Bid opening date shown on the Proposal and Contract. The abbreviations used are referred to as follows:

<u>Abbreviation</u>	<u>Agency, Association or Organization</u>
ACI	American Concrete Institute
AISC	American Institute of Steel Construction, Inc.
AMCA	Air Moving and Conditioning Association
ANSI	American National Standards Institute, Inc.
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASSE	American Society of Sanitary Engineering
ASTM	American Society of Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
BOCA	Building Officials and Code
CDA	Copper Development Assn., Inc.
CLFMI	Chain Link Fence Manufacturer's Institute
CISPI	Cast Iron Soil Pipe Institute
CRSI	Concrete Reinforcing Steel Institute
CS	Commercial Standard
F/M	Factory Mutual Research Corporation
FS	Federal Specifications
HEW	United States Department of Health Education and Welfare
MDOT	Michigan Department of Transportation
NFPA	National Fire Protection Association
NSF	National Sanitation Foundation Testing Laboratory, Inc

NSWMA	National Solid Waste Management Association
PCA	Portland Cement Association
PDI	Plumbing and Drainage Institute
SMACNA	Sheet Metal & Air Conditioning Contractors
UL	Underwriters Laboratories, Inc.
USBM	United States Bureau of Mines
USDC	United States Department of Commerce

END OF SECTION 01090

SECTION 01100 PROJECT PROCEDURES

1. **Signage and Safety:** The Contractor must post appropriate construction signs to advise the occupants and visitors of occupied facilities of the limits of construction work areas, hardhat areas, excavations, construction parking and staging areas, etc. Advertising signage by contractors, subcontractors, or suppliers is not allowed. The Contractor must maintain safe and adequate pedestrian and vehicular access to fire hydrants, commercial and industrial establishments, churches, schools, parking lots, hospitals, fire, and police stations and like establishments. The Contractor must obtain written approval from the Owner ten Calendar Days before connecting to existing facilities or interrupting the services on site.
2. **Required Project Sign:** For projects costing in excess of \$500,000, the Contractor must provide and install a project sign conforming to the requirements shown in Appendix IV. The Project Director will designate the wording for the sign.
3. **Barrier and Enclosures:**
 - (a) The Contractor must furnish, install, and maintain as long as necessary and remove when no longer required adequate barriers, warning signs or lights at all dangerous points throughout the Work for protection of property, workers, and the public. The Contractor must hold the State of Michigan harmless from damage or claims arising out of any injury or damage that may be sustained by any person or persons as a result of the Work under the Contract.
 - (b) **Temporary Fence:** The Contractor must entirely enclose the Contract area by means of woven wire or snow fence having minimum height of four feet. Gates must be provided at all points of access. Gates must be closed and secured in place at all times when Work under the Contract is not in progress. The fence must be removed, and grounds restored to original condition upon completion of the Work.
 - (c) **Street Barricades:** The Contractor must erect and maintain all street barricades, signal lights and lane change markers during the periods that a traffic lane is closed for their operations. There must be full compliance with rules and ordinances respecting such street barricading and devices must be removed when hazard is no longer present.
4. **Construction Aids:**
 - (a) The Contractor must furnish, install, and maintain as long as necessary and remove when no longer required, safe and adequate scaffolding, ladders, staging, platforms, chutes, railings, hoisting equipment, etc., as required for proper execution of the Work. All construction aids must conform to Federal, State, and local codes or Laws for protection of workers and the public.
 - (b) **Debris Chute:** The Contractor must use a chute to lower debris resulting from their Work. The chute must be the enclosed type with its discharge directly into the truck or approved container.
 - (c) **Pumping and Drainage:** The Contractor must provide all pumping necessary to keep excavations and trenches free from water the entire period of Work on the Contract. The Contractor must construct and maintain any necessary surface drainage systems on the Work site so as to prevent water entering existing structures or to flow onto public or private property adjacent to the Agency's land, except for existing drainage courses or into existing drainage systems. The Contractor must prevent erosion of soils and blockage of any existing drainage system.

END OF SECTION 01100

SECTION 01200 PROJECT MEETINGS

1. **Pre-Construction Conferences:** The Project Director will schedule a pre-construction conference to be attended by the Professional, State Agency staff, and the Contractors. A project procedure as outlined in Form DTMB-0460, will be established for the Work during the pre-construction meeting. When no organizational meeting is called, the Contractor, before beginning any Work, must meet with the staff of the Agency and arrange a Work schedule for the Project. Once the Project has been started, the Contractor must carry it to completion without delay.
2. **Progress Meetings:** The Professional will schedule progress meetings to be held on the job site whenever needed to supply information necessary to prevent job interruptions, to observe the Work or to inspect completed Work. The Contractor must be represented at each progress meeting by persons with full authority to act for the Contractor in regard to all portions of the Work.

END OF SECTION 01200

SECTION 01300 SUBMITTALS

1. Shop Drawings, Samples and Technical Submittals:

1.1 Contractor’s Review: Before each submission, the Contractor must:

- (a) determine and verify all field measurements, quantities, dimensions, instructions for installation and handling of equipment and systems, installation requirements (including location, dimensions, access, fit, completeness, etc.), materials, color, catalog numbers and other similar data as to correctness and completeness, and
- (b) have reviewed and coordinated that technical Submittal with other technical submittals and the requirements of the Contract Documents.

1.2 Notice of Variation: The Contractor must give the Professional specific written notice of any variation from the requirements of the Contract Documents.

1.3 Contractor’s Approval: The Contractor shall not submit unapproved submittals. Each submittal shall be stamped/certified to indicate that the submittal satisfies the requirements of the Contract Documents before submission to the Professional.

1.4 Responsibility and Authority: Neither the Owner’s authority to review any of the Submittals by the Contractor, nor the Owner’s decision to raise or not to raise any objections about the Submittals, creates or imposes any duty or responsibility on the Owner to exercise any such authority or decision for the benefit of the Contractor/Subcontractor/Supplier, any surety to any of them or any other third party. The Contractor is not relieved of responsibility for errors or omissions in shop drawings, product data, samples, or similar submittals just because the Professional approved them for general design intent.

1.5 Final As-Built/Record Documents and Submittals: The approved Submittals are a part of the final As-Built/Record Documents required for processing final payment to the Contractor.

1.6 Submissions: Contractor must submit to the Professional:

Within ten (10) working days following the Notice to Proceed, the Contractor shall submit two (2) copies of the following administrative submittals. The Contractor shall not initiate field activities until the Professional has reviewed and accepted (as necessary) these submittals.

For Information Only (FIO)

<u>Item of Work</u>	<u>Section Number</u>	<u>Can be included in Work Plan</u>
Health and Safety Plan (HASP)	Section 01300	No
Sample Daily Work Log	Section 01300	Yes
Management Plans	Section 01300	Yes
List of Transporters	Section 01300	Yes
Project Schedule	Section 01300	Yes
Permits	Section 01300	No

For Approval (FA)

<u>Submittal</u>	<u>Reference</u>	<u>Can be included in Work Pan</u>
Work Plan	Section 01300	
List of Subcontractors	Section 01300	Yes
Schedule of Values	Section 01300	No
Disposal/Recycling Facility Names	Section 01300	Yes
Erosion and Sediment Control	Section 02560	Yes
Spill Contingency Plan	Section 02223	Yes
Source of Backfill and Clean Certification	Section 02225	No

A. PRE-WORK SUBMITTALS

1. Work Plan

The Contractor shall develop, implement, and maintain a Work Plan for all site activities as part of this work. The Work Plan shall be submitted prior to proceeding with any site work. No adjustment for time or money will be made for re-submittals required as a result of noncompliance. The Work Plan shall, at a minimum, present the following:

- a. Description of the methods and equipment to be used for each operation (e.g., excavation, dewatering, transportation, disposal, etc.).
- b. Scheduling and operational sequencing.
- c. Temporary storage area for equipment as necessary.
- d. Transportation company and the number of trucks dedicated to project.
- e. Licensed disposal facility(ies)
- f. Description of the means, methods, and procedures for site restoration, compaction, and seeding.

2. Health and Safety Plan (HASP)

The Contractor's HASP is provided to the Professional for informational purposes only and for implementation by the Contractor. The State and the Professional may review the HASP for completeness. Comments will be provided to the Contractor, but no approval of the HASP will be granted.

- a. The site-specific HASP shall meet the requirements, at a minimum, of the following:
 - i. 29 CFR 1904 – Record Keeping, United States Occupational Safety and Health Administration (OSHA), as amended.
 - ii. 29 CFR 1910 – Safety and Health regulations for general Industry, OSHA, as amended.
 - iii. 29 CFR 1926: Safety and Health Regulations for Construction, OSHA, as amended.
 - iv. 49 CFR 171.8 – Hazardous Materials in Transport, United States Department of Transportation (USDOT), as amended.
 - v. 40 CFR 261.3, 264, and 265, RCRA, USEPA, as amended.
 - vi. Standard Operating Safety Guides, USEPA, November 1984.
 - vii. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, NIOSH Publication No. 85-115, October 1985.
 - viii. 40 CFR 1910.120 – Hazardous Waste Operations and Emergency Response, OSHA, as amended
- b. The HASP is an enforceable document that shall guide the activities of the Contractor's and all subcontractor personnel. The HASP shall define site-specific safety provisions required for all project activities of the Contractor and subcontractors.
- c. The Contractor shall provide training certificates for OSHA 40-hour Hazwoper and 8-hour refresher for all employees onsite.
- d. Hazard Communication Program – A hazard communication program shall be used in accordance with 29 CFR Part 1926.59.

3. Schedule of Values

Before the pre-construction meeting date, the Contractor must submit a Schedule of Values of the various tasks that must be performed to complete all the Work to the Professional for review and approval. The schedule of values must show each task and the corresponding value of the task, including separate monies allocated for General Condition items and Project close-out. The Schedule of Values shall be inclusive and in great detail of all items necessary to complete the work covered under the contract and described in great detail. The aggregate total value for all tasks must be equal to the total Contract sum.

4. Project Schedule

The Contractor shall provide a Project Schedule that contains the following:

- a. Administrative and technical submittal dates and required approval dates
- b. Work activities and durations with expected start and finish dates
- c. Date of anticipated Substantial Completion
- d. Date of anticipated Final Completion
- e. Time to account for laboratory analysis of post-excavation soil samples.

5. Permits

The Contractor shall provide copies to the Professional of all permits and notifications required to perform this work. All permits and notifications must be obtained and provided prior to the start of any affected work. Permits and notifications include, but are not limited to, the following:

- a. SESC permit (or Waiver)
- b. MISS-DIG notification

- c. Utility company permits / approvals for cut and cap locations
- d. Discharge permits
- e. Right of Entry permit (City of Detroit)
- f. Right-of-way work permit (City of Detroit or State of Michigan)

6. List of Subcontractors

The Contractor shall submit the following Submittals to the Professional at least three (3) business days prior to the pre-construction meeting for approval:

- a. The name, location, suitability and compliance status of all disposal facilities at which the Contractor proposes to dispose / recycle materials.
- b. The name and location of all companies that the Contractor proposes to use for transporting materials to disposal/ recycling facilities.
- c. The name and location of all testing laboratories the Contractor proposes to use for testing samples.
- d. The name and location of all subcontractors, including trucking, fill material source, dewatering installation, etc.

B. OTHER ADMINISTRATIVE SUBMITTALS

1. Daily Work Log

The Contractor shall maintain a daily log of Work activities, including the Work of suppliers and subcontractors. This log shall be in an acceptable and legible form. It shall include a description of the trades working on the project, the number of personnel working, the weather conditions encountered, any delays encountered, start and finish photographs, outline the Work accomplished during the reporting period and Work to be accomplished during the subsequent reporting period, problems (real or anticipated) that should be brought to the attention of the Professional, notification of any significant deviation from previously agreed upon Work Plans, and acknowledgement of deficiencies noted along with the corrective actions taken on current and previous deficiencies noted along with the corrective actions taken on current and previous deficiencies. In addition, the log shall include factual evidence that the required activities have been performed, including but not limited to the following:

- a. Type and number of activities
- b. Nature of defects, causes for rejection, etc.
- c. Corrective actions taken
- d. Proposed remedial action
- e. Any spills that occurred

The log shall cover both conforming and defective or deficient features and shall include a statement that supplies and materials incorporated into the Work comply with the Contract requirements. Legible copies of the log shall be provided to the State or Professional upon request.

2. Permits and Approvals

The Contractor shall provide the Professional with copies of all permits, approvals, licenses, exemptions or other governmental documents or submittals obtained or submitted as part of the Work. These documents shall be provided to the Professional in a timely manner.

3. Disposal Records

a. Waste Manifests:

The Contractor shall submit two copies of uniform waste manifests for all non-hazardous and hazardous debris, impacted soils, and impacted water/liquids taken off site. One copy shall be submitted to Professional within two (2) business days of the manifests being signed by the disposal treatment facility. One copy of the fully executed manifest from the disposal facility shall be submitted by the Contractor to the Professional within one (1) week of Substantial Completion.

b. Disposal / Recycling Facility Weight Tickets / Records:

The Contractor shall submit disposal facility weight tickets and/or receipts to Professional for all debris and impacted soils taken off site. Weight tickets shall be submitted to Professional within one business day of the debris or soil being disposed. Certificates of destruction for all underground storage tanks shall be submitted to the Professional within 1 week of Substantial Completion.

c. Disposal / Recycling Log:

Within five (5) business days of Substantial Completion, the Contractor shall submit to Professional one copy of the waste disposal / recycling log that contains the following information:

- i. Date and time transportation vehicle left the site.
- ii. Box volume of each transportation vehicle.
- iii. Gross weight of each transportation vehicle.
- iv. Tare weight of each transportation vehicle.
- v. Net weight of each waste soil load disposed.
- vi. Destination of each waste soil load disposed.
- vii. Vehicle number.
- viii. Driver name.
- ix. Waste manifest number (if applicable).

4. Excavation Records

The contractor shall provide the Professional with documentation of excavation depth achieved. Real time updates will be provided by the Contractor to the Professional in the field verbally. Written documentation is to be provided upon request of the professional or at the completion of the excavation activities, whichever is sooner.

5. Backfill Material Records

The Contractor shall provide documentation of the off-site source material soil type and non-impact (virgin material or analytical test results) prior to bringing the material on-site. Weight tickets from a certified scale for all excavation backfill acquired from an off-site source shall be provided to the Professional within one (1) business day of being brought on-site. Results of the compaction testing of the backfill shall be provided from each lift of soil. The following documentation shall be provided to the Professional:

- a. Weight Tickets
- b. Non-impact (i.e., certified clean) documentation
- c. all required samples; and
- d. all other technical submittals (test, results, test and safety procedures, O&M manuals, etc.) that are required by the Contract Documents

1.7 Professional's Review and Return: Professional's Review and Return: Submittals will be returned to the Contractor within fifteen Calendar Days. The Contractor is responsible for any time Delay and any cost incurred by the Professional, Contractor or Subcontractors/Suppliers as a result of resubmissions and re-reviews of a particular Submittal. The Contractor shall revise, and correct submittals returned for revision and resubmittal until approval by the Professional is achieved. All time consumed by the resubmissions and rereviews of a particular Submittal shall constitute time required to furnish that Submittal or shall represent Delays not justifying any increase in Contract Time or Contract Price, or both.

2. Progress Schedule:

2.1 SUMMARY

A. The **Contractor** will submit CPM Progress Schedules to the **Owner** depicting its approach to prosecution of the Work. This includes but is not limited to the **Contractor's** approach to recovering schedule and managing the effect of changes, substitutions, and Delays on Work sequencing.

B. The Progress Schedule will include the Rev. 0 Submittal (par. 2.14), Update Submittals (par. 2.15) and Revision Submittals (par. 2.16). Each Submittal will be assigned a unique number. For a resubmission, the initial number will be modified by the letter A, B, C, etc., as appropriate.

C. Through the Progress Schedule, the **Owner** will seek to stay current on progress, updated Activity and Milestone Dates, and the **Contractor's** approach to Work remaining.

D. References to the Critical Path Method (CPM) are to CPM construction industry standards that are consistent with the requirements of this Section.

2.2 RELATED SECTIONS

A. Section 00700 General Conditions; and Section 00800 Supplementary Conditions.

2.3 GLOSSARY OF TERMS

A. Capitalized terms not already defined in any Division 0 Specification have the following intent and meanings:

1. Milestone—A key point of progress, designating interim targets toward the Contract Times. They may pinpoint critical path foundations, key deliveries, building framing, start of MEP rough-in, building enclosure, partitions, interior finishes, conditioned space, commissioning stages, Substantial Completion, and other events of like import.

2. Official Schedule–The most recent Revision Submittal returned to the **Contractor** as Resubmittal Not Required. The Rev. 0 Official Schedule is the *As-Planned* Schedule.
3. Revision 0 Submittal–Progress Schedule submitted by the **Contractor** depicting the entire Work as awarded.
4. Update Submittal–A monthly Progress Schedule update reflecting progress and minor adjustments on the Activities, sequencing and restraints for Work remaining.

2.4 QUALITY ASSURANCE

- A. The **Contractor** will obtain a written interpretation from the **Professional**, if the **Contractor** believes the selection of Activities, logic ties or restraints requires an interpretation of the Contract Documents. With each submission, the **Contractor** will point out by specific, written notation, any Progress Schedule feature that may reflect variations from any requirements of the Contract Documents.
- B. The **Contractor** is responsible to obtain information from each Subcontractor and Supplier when scoping their respective Activities, Values, logic ties and restraints
- C. No review of any Progress Schedule by or on behalf of the **Owner** will relieve the **Contractor** from complying with the Contract Times and any required sequence of Work or from completing Work omitted from the Progress Schedule. No review will imply approval of any variation from or interpretation of the Contract Documents, unless approved by the **Professional** through a written interpretation or by means of a separate, written notation.

2.5 ALLOWANCES

- A. Work covered by Cash Allowances will be completed within the Contract Times. To the extent reasonable and consistent with the **Contractor's** plan, Work authorized by provisional contingency allowances will be completed within the Contract Times. The Progress Schedule will incorporate the **Contractor's** best estimate of the Activities, logic and restraints required, using the information in the Contract Documents, or as indicated by the **Professional** in writing.

2.6 "OR EQUALS" AND SUBSTITUTIONS

- A. Activities in the Rev. 0 Progress Schedule will be based on materials and equipment required by the Contract Documents and will not reflect any "or equal" or substitute materials or equipment, even if the **Contractor** intends to pursue "or equal" and substitution proposals. This limitation also applies to any Means and Methods indicated in or required by the Contract Documents.

2.7 MEASUREMENT AND PAYMENT

- A. The Schedule of Values will include a Progress Schedule *pay item*. Fifteen percent (15%) of this *pay item* will be eligible for payment upon delivery of the *complete* Rev. 0 Submittal. The balance of this *pay item* will be eligible for payment, on a prorated basis, with each Request for Payment attaching an Update Submittal.

2.8 PROGRESS SCHEDULE SUBMITTALS

- A. Each Progress Schedule Submittal will consist of an electronic copy the **Contractor's file**, a narrative and a PDF file of the project schedule report and plots, each file appropriately titled for the schedule version and date of publishing.
- B. The CPM scheduling software will be Primavera Project Planner®, SureTrak® or Microsoft Project®.
- C. In addition to the monthly update schedule submittal, **Contractor** shall provide prior to each Progress Meeting, a 2-week look ahead schedule extracted from the current overall schedule and providing sufficient additional activity detail to appropriately define the expected activity during the upcoming 2-week period.

2.9 PRINTOUTS

- A. Schedule Reports will include Activity (ID) code and description, duration, calendar, Early Dates, Late Dates and Total Float, all of which will comport with the requirements of paragraph 8.3.4 of Section 00700 General Conditions.
 1. Late Finish Date for an Activity pinpointing a Contract Time will equal that Contract Time. Early Start Date for an Activity designating a Contract restraint will equal the proper Notice to Proceed date. Schedule Reports may or may not append CPM Plots (time-scaled Activity/logic).
 2. For Precedence Diagram Method, separate Schedule Reports will tabulate, for each Activity, all preceding and succeeding logic types and lead times, whether CPM Plots displaying vertical logic ties are appended or not.
- B. CPM Schedule Plots will be plotted on a suitable time scale and identify the Contract Times, Critical Paths, and sub-Critical Paths. Activities will be shown on the Early Dates with Total Floats noted by Late Date flags.
- c. Line of Balance Plots will reflect industry practice for repetitive construction and will segregate the production lines for all trades within the hammock Activities.

2.10 NARRATIVE REQUIREMENTS

- A. In general, a narrative will describe the **Contractor's** approach to prosecution of the Work, subject to the requirements of the Contract Documents. Further, each narrative will list the Critical Path Activities and compare Early and Late Dates with Contract Times and Milestone Dates. The basis for restraint dates will be explained.
- B. For each Update Submittal, the narrative will compare current Dates to the respective Milestone Dates, describe changes in crewing and construction equipment and identify new Delays. For each Revision Submittal, the narrative also will itemize changes in Activities, logic ties and restraint dates made necessary by each change, Delay, schedule recovery, substitution and **Contractor**-initiated revision occurring since the previous Submittal.

2.12 ACTIVITY REQUIREMENTS

- A. The Progress Schedule will detail Work sequencing only to the extent necessary to allow the **Owner** to correlate percent complete, compare actual dates with Milestones and Contract Times and the data in Requests for Payment.
- B. Separate Activities will designate permits, construction, Submittal preparation/review (and resubmission and re-review, for same); MEP coordination drawings; deliveries; commissioning; and Punch List. Separate Activities will designate **Owner**-furnished items, interface with other work and the **Owner** and **Professional's** responsibilities.

C. Activities will be detailed only to the extent required to show the transition of trade Work. Activities will detail the progression through site/excavation, foundations, building framing, start/completion of interior partitions, MEP rough-in, building enclosure, interior finishes, conditioned space, and commissioning.

1. Submittal Activities will segregate long-lead items, any item requiring structural access and other procurements that, in the **Contractor's** judgment, may bear on the rate of progress. Separate MEP coordination drawing Activities will be used for each floor. Beyond these requirements, it is not necessary to burden the Progress Schedule with Activities for less significant Submittals and deliveries.

2. For multiunit Work (e.g., rough-in overhead MEP for each floor, etc.), detailed Activities will be shown for a typical (often, the first) unit). Other or follow-on units may be replicated, as appropriate, or modeled with a hammock Activity combining the sum total of the typical detailed Activities. Separate Activities, as may be suitable to the Divisions of Work involved, will be identified for single-unit Work. This requirement applies to such scope as Work in mechanical rooms, building framing, commissioning, etc.

3. Activities will not combine separate or non-concurrent items of Unit Price or lump sum Work, Work in separate structures and Work in distinct areas, locations or floors within an area or structure; or rough-in and finish Work.

D. Activity durations will equal the Business Days required to sufficiently complete the Work designated by the Activity (i.e., when finish-to-start successors may start, even if the Activity is not quite 100% complete). Installation Activities will last from twenty (20) to forty (40) Days.

E. Activities will be assigned consistent descriptions and identification codes. Sort codes will group Activities by building or structure, floor or area, Change Order and Change Authorization and other meaningful schemes.

2.13 FLOAT TOLERANCES

A. Any Progress Schedule with Early Dates after a Contract Time will yield negative Total and Contract Floats, whether shown/calculated or not. Any Revision Submittal with less than negative twenty (20) Days of Float will be returned as "Revise and Resubmit," unless a time extension is requested, or the **Owner** withholds liquidated damages or asserts intent to do so in the event schedule is not recovered.

B. Floats calculated from the definitions given in Section 00020 Glossary supersede any conflicting Float values calculated within any early completion Progress Schedule.

2.14 REVISION 0 (Rev. 0) SUBMITTAL

A. The complete Revision 0 Submittal will be due with the first Request for Payment. The Rev. 0 Submittal will show the Work as awarded, without Delays, "or equal" or substitutions, Change Orders or Change Authorizations.

1. The Rev. 0 narrative will detail the **Contractor's** management of the site (lay down, parking, etc.). Further, the Rev. 0 narrative will identify shifts, weekend Work, Activity calendars, Delays since award and all pending and anticipated "or equal" and substitution proposals.

B. Once endorsed by the **Owner** and returned as "Resubmittal Not Required," the Rev. 0 Progress Schedule (or Rev. 0A, etc.) will be the As-Planned Schedule and the basis for Update Submittals until the Rev. 1 Official Schedule is established. Once the As-Planned Schedule is established, the **Owner** will select Milestones and note Milestone Early and Late Dates. As the Official Schedule evolves, Milestone Dates will be revised accordingly.

D. If the **Owner** refuses to endorse the Rev. 0 Submittal (or Rev. 0A, for a resubmission) as "Resubmittal Not Required," the As-Planned Schedule will not be established. In that event, the **Contractor** will continue to submit Update and Revision Submittals reflecting progress and the **Contractor's** approach to remaining Work. The **Owner** will rely on the available Update and Revision Submittals, subject to whatever adjustments it determines appropriate.

2.15 UPDATE SUBMITTALS

A. Update Submittals with progress up to the closing date and updated Early and Late Dates for progress and remaining Activities will be due with each Request for Payment. As-built data will consist of actual start dates, percent complete, actual finish dates, changes, Delays, and other significant events occurring before the closing date.

2.16 REVISION SUBMITTALS

A. Progress Schedule Revisions will be submitted with the third Request for Payment and every two (2) months after that, or more often, if necessary due to schedule recovery or other Progress Schedule revisions. Revisions will revise the Update Submittal attached to the prior Request for Payment.

B. Progress Schedule revisions will detail all impacts on pre-existing Activity scope, logic ties and restraint dates and reflect the Contractor's current approach to Work remaining. Revisions may be required because of changes in the Work, substitutions, schedule recovery and Delays.

C. Once endorsed by the **Owner** and returned as "Resubmittal Not Required," a Revision Submittal becomes the Rev. 1, Rev. 2, etc. Official Schedule and the basis for subsequent Update Submittals until a more current Official Schedule is established. If the **Owner** refuses to endorse a Revision Submittal as "Resubmittal Not Required," the **Contractor** will continue to submit Update and Revision Submittals when and as required in this Section.

2.17 RETROSPECTIVE DELAY ANALYSIS

A. If the **Owner** refuses to endorse any Revision Submittal as "Resubmittal Not Required," the **Contractor** and **Owner** will use the latest Official Schedule when evaluating the effect of Delays on Contract Time and/or Contract Price. The procedure will consist of progressively revising the latest Official Schedule at key Revision Submittal closing dates. For each Progress Schedule iteration, slippage between actual Milestone Dates and Rev. 0 Milestone Dates will be correlated to Delays occurring solely in that iteration. Revisions affecting Work after any iteration will be included only to the extent consented by the **Owner** at that time and/or if confirmed by as-built progress.

3. **Shop Drawings:** The Contractor shall deliver shop drawings of products, materials, assemblies, or equipment to the Professional.
4. **Samples:** The Contractor must deliver all samples of material or equipment to the job site for examination by the State Agency and the Professional. Samples will be examined by the Professional for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents. The Contractor must furnish all Work in accordance with approved samples. The following general classifications of material and equipment require submission of samples. Samples of other items may be requested by the Professional at any time.

END OF SECTION 01300

SECTION 01400 QUALITY CONTROL

- DESCRIPTION OF WORK
 - A. The quality of all Work shall be the responsibility of CONTRACTOR. CONTRACTOR shall provide quality control for all field work, including, at minimum, perform sufficient inspections and tests of all CONTRACTOR's and their subcontractor's Work items, on a continuing basis, to ensure conformance to applicable Specifications and Drawings with respect to the quality of materials, workmanship, construction, and functional performance.
 - B. CONTRACTOR shall provide qualified personnel, appropriate facilities, instruments, and testing devices necessary for the performance of the quality control function. Controls shall be adequate to cover all construction operations, shall be keyed to the proposed construction sequence, and shall be coordinated by CONTRACTOR's quality control personnel. CONTRACTOR's quality control work shall be completed in a timely and regular basis to achieve and demonstrate the required level of construction quality. Results of CONTRACTOR's and CONTRACTOR's supplier quality control testing results shall be submitted to PROFESSIONAL in similar timely and regular basis.
 - C. CONTRACTOR shall prepare and submit a Construction Quality Assurance Plan (CQAP), that provides details on the CONTRACTOR's quality program, including, at a minimum, roles and responsibilities, testing methods and frequencies, inspection schedule, methods for identifying and reporting nonconforming items, corrective action procedures and procedures, instructions, records, and forms to be used in carrying out the requirements of this project. The plan shall provide and maintain effective quality control for construction, sampling, and testing activities. Tests and measurements are to include, but not limited to:
 1. Assessment of the character of raw materials (e.g., imported backfill material, demarcation layers, water and dust suppression materials brought on site, etc.)
 2. Checking of dimensions, strength, consistency of delivered products and equipment (e.g., temporary structures, support of excavation materials, etc.)
 3. Measurement of the position, thickness, and condition of installed materials and products (e.g., compacted soil layers, temporary structures, suppliers/subcontractors/vendors equipment, support of excavation materials, etc.)
 4. Waste characterization and profiling (e.g., waste sampling and documentation).
 5. Dust and monitoring and mitigation. CQAP shall cover methods to protect workers on site using CONTRACTOR provided air monitoring, mitigation techniques, and PPE. CQAP shall cover methods to protect offsite receptors using dust mitigation techniques.
- RESPONSIBILITIES
 - A. CONTRACTOR
 1. During site operations, CONTRACTOR will be expected to follow outlines and procedures detailed in the Quality Control Plan.
 2. CONTRACTOR shall identify the Site Quality Control Manager, who is an individual within CONTRACTOR's organization that shall have the authority to act in all quality control matters at the Site. The Quality Control Manager shall be a qualified individual with experience on similar types of projects, whose sole responsibility is to ensure compliance with the contract plans and specifications. The Quality Control Manager shall be on-site whenever work is in progress so that he/she may be in charge of CONTRACTOR's testing and inspections of CQAP for the project. All submittals for approval shall be reviewed and modified or corrected as needed by the Quality Control Manager prior to forwarding each submittal to OWNER and PROFESSIONAL.
 3. CONTRACTOR shall provide inspections, tests and similar quality control services as specified and as required by governing authorities, except where they are specifically indicated to be OWNER's or PROFESSIONAL's responsibility or are provided by another identified entity; these services include those specified to be performed by an independent agency and not by Contractor. Costs for these services shall be included in the Bid.
 4. CONTRACTOR is responsible for retesting where results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was CONTRACTOR's responsibility.
 5. CONTRACTOR shall cooperate with CONTRACTOR-procured and/or OWNER-procured independent testing contractors performing required inspections, tests and similar services and provide reasonable auxiliary

services as requested. Notify the independent testing contractor sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include but are not limited to:

- a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
- b. Taking adequate quantities of representative samples of materials that require testing or assisting the independent testing agency in taking samples.
- c. Delivery of samples to testing laboratories.
- d. Security and protection of samples and test equipment at the Site.

6. CONTRACTOR and each independent testing contractor engaged to perform inspections; tests and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. In addition to CONTRACTOR, each independent testing contractor shall coordinate activities to avoid the necessity of removing and replacing existing infrastructure or work completed to accommodate inspections and tests.

7. CONTRACTOR is responsible for scheduling times for inspections, tests, assisting the PROFESSIONAL with taking samples, and similar activities.

8. CONTRACTOR shall make or have made the quality control tests and measurements, and review and submit the results to PROFESSIONAL on a timely and regular basis to achieve and demonstrate the required level of construction quality control. Tests and measurements are to include: 1) assessment of the character of raw materials (e.g., dust suppression materials, excavation backfill materials, materials used for excavation supports, etc.); checking the dimensions, strength, consistency of delivered products as applicable; and 3) measurement of the position, thickness, and condition of installed materials and products (e.g., compacted backfill, silt fence embedment depth, etc.).

9. CONTRACTOR shall establish and provide quality control for suppliers, manufacturers, subcontractors, products, services, site conditions, materials used during work, and workmanship, to produce and complete the work to a specified quality.

10. CONTRACTOR is responsible for handling, storing, and installing all manufactured materials and pre-manufactured or pre-assembled structures (e.g., temporary facilities) in a manner that will assure the integrity and enforceability of all required manufacturer warranties.

11. CONTRACTOR shall cooperate with PROFESSIONAL in performance of its duties.

12. CONTRACTOR shall notify PROFESSIONAL promptly of irregularities or deficiencies observed in the Work during performance of its services.

13. CONTRACTOR is not authorized to release, revoke, alter or enlarge requirements of the Contract Documents.

14. Clear utilities

15. Stop work if unsafe acts or conditions are observed.

16. Implement removal, management, transportation, and disposal of impacted soils. Replace removed soil with imported clean material and/or clean overburden soil and restore site to previous conditions (e.g. roadway, sidewalks, topsoil/grass).

17. Develop and Administer Site Specific Health and Safety Plan.

18. Develop Work Plan.

19. Coordinate all CONTRACTOR staff to accomplish tasks in an efficient and expedient manner.

20. Complete work in compliance with all specification, Drawings, and certifications in accordance with project requirements, within the schedule defined in CONTRACTOR's work plan, and within the CONTRACTOR's proposed price to complete the work.

21. Notify PROFESSIONAL of all contingencies that may arise during implementation of construction activities.

22. Meet as necessary with PROFESSIONAL to resolve construction and/or design issues. In the event that a modification to the CONTRACTOR's schedule or budget is required, work shall not commence until prior approval by OWNER.

B. OWNER

1. OWNER may engage the services of an independent/third party contractor to perform inspections and tests specified as OWNER's responsibility.

2. Where OWNER has engaged a testing contractor or other entity for testing and inspection of a part of the Work, and CONTRACTOR is also required to engage an entity for the same or related element, CONTRACTOR shall not employ the entity engaged by OWNER, unless otherwise agreed in writing with OWNER.

3. OWNER will provide inspections, tests and similar quality control services specified to be performed by independent contractors and not by CONTRACTOR, except where they are specifically indicated as CONTRACTOR's responsibility or are provided by another identified entity. Costs for these services are not included in the Bid.

4. Approves change orders, invoices and other financial documents reviewed and submitted by PROFESSIONAL.

5. Resolves disputes which arise as a result of construction activities.

C. PROFESSIONAL

1. PROFESSIONAL will observe the work and quality control efforts. These include administration of general construction activities, receive and distribute CONTRACTOR submittals, participate in site meetings, identify construction deficiencies and notify CONTRACTOR and OWNER of their existence, make final inspection of completed work with OWNER and CONTRACTOR and report on project completion.
2. PROFESSIONAL's quality control observations do not relieve CONTRACTOR's quality control responsibilities.
3. Stop work if unsafe acts or conditions are observed.
4. PROFESSIONAL is responsible for all interpretations of the contract drawings and ensuring the work is being performed as designed.

• SUBMITTALS

A. CONTRACTOR shall prepare and submit a CQAP as specified in Section 01300 – Submittal Procedures.

• NOTIFICATION OF CHANGE

A. After submittal and approval of the CQAP, OWNER and PROFESSIONAL shall be notified in writing of any proposed changes to the plan.

END OF SECTION 01400**SECTION 01500 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS**

1. The Contractor must furnish and install all temporary facilities and controls required by the Work, must remove them from State property upon completion of the Work, and the grounds and existing facilities must be restored to their original condition.
2. If water or electricity is available in the area where Work will be performed, the Contractor will not be charged for reasonable use of these services for construction operation. The Contractor must pay costs for installation and removal of any temporary connections including necessary safety devices and controls. Use of services must not disrupt or interfere with operations of the State Agency.
3. **Temporary Sanitary Facilities:**
 - (a) **Portable Toilets:** The Contractor must provide and maintain a sufficient number of portable temporary toilets in locations approved by the State Agency. They must comply with all Federal, State, and local code requirements. The Contractor must maintain the temporary toilets in a sanitary condition at all times and must remove them when the Work under this Contract is complete. The Contractor's employees are not allowed to use any existing State toilet facility.
4. **Field Office:**
 - (b) **On Site Trailer:** At the beginning of the Work, the Contractor may provide a field office and storage building at the site in a location acceptable to the Owner. The building may be a trailer. The Contractor may provide such other temporary buildings as he may require for the use of workers and safe storage for tools and materials. Job signs with the Contractor's name, logos, specialty, ... etc., are not allowed.
5. **Temporary Heating:** The Contractor must provide adequate temporary heaters to maintain the temperature in those areas of the building where Work is being conducted between 55 degrees F. and 70 degrees F. during working hours.
6. **Temporary Site Security:** The Contractor shall provide adequate security to prevent unauthorized access to the project site. Temporary security fencing shall encompass the entire site, shall be constructed of chain-link fence, shall be a minimum of 6-feet tall, and shall have locking ingress/egress gate. The Contractor shall lock the ingress/egress gate daily at the end of the work period, or at any time that Contractor personnel are not present.

END OF SECTION 01500**SECTION 01600 MATERIAL AND EQUIPMENT**

1. The Contractor must furnish and be responsible for all materials, equipment, facilities, tools, supplies and utilities necessary for completing the Work. All materials and equipment must be provided as described in the Contract Documents and of good quality, free of defect and new and must be applied, installed, connected, erected, used, cleaned and conditioned following the manufacturer's and Suppliers' instructions.
2. **Delivery, Storage, and Handling:** All materials and equipment delivered to and used in the Work must be suitably stored and protected from the elements. The areas used for storage must only be those approved by the State Agency. The Owner assumes no responsibility for stored material. The ownership and title to materials will not be vested in the

Owner before materials are incorporated in the Work unless payment is made by the Owner for stored materials and equipment. After delivery, before and after installation, the Contractor must protect materials and equipment against theft, injury, or damage from all causes. For all materials and equipment, the Contractor must provide complete information on installation, operation, and preventive maintenance.

- (a) The Contractor must cover and protect bulk materials while in storage which are subject to deterioration because of dampness, the weather or contamination. The Contractor must keep materials in their original sealed containers, unopened, with labels plainly indicating manufacturer's name, brand, type, and grade of material and must immediately remove from the Work site containers which are broken, opened, watermarked and/or contain caked, lumpy, or otherwise damaged materials.
- (b) The Contractor must keep equipment stored outdoors from contact with the ground, away from areas subject to flooding and covered with weatherproof plastic sheeting or tarpaulins.
- (c) The Contractor must certify that any materials stored off-site are:
 - a) Stored on property owned or leased by the Contractor or owned by the agency.
 - b) Insured against loss by fire, theft, flood, or other hazards.
 - c) Properly stored and protected against loss or damage.
 - d) In compliance with the plans and specifications.
 - e) Specifically allotted, identified, and reserved for the project.
 - f) Itemized for tracking and payment.
 - g) Subject to these conditions until the items are delivered to the project site.

END OF SECTION 01600

SECTION 01700 CONTRACT CLOSE-OUT

1. **Substantial Completion:** The Contractor must notify the Professional, the Project Director and the Agency when the Work will be substantially complete. If the Professional, Owner, and Agency agree that the project is Substantially Complete, the Professional and Project Director will inspect the Work. The Professional, upon determining that the Work, or a portion of the Work inspected, is substantially complete, will prepare a Punch List and will attach it to the respective Certificate of Substantial Completion. The Contractor must be represented on the job site at the time this inspection is made and thereafter must complete all Work by the date set for final acceptance by the Owner.
2. **Cleaning:**
 - (a) **Regular Cleaning:** The Contractor must remove all scrap or removed material, debris, or rubbish from the Project work site at the end of each working day and more frequently whenever the Owner Field Representative deems such material to be a hazard. The Contractor cannot discard materials on the grounds of the State Agency without the express permission of the Project Director. No salvage or surplus material may be sold on the premises of the State Agency. No burning of debris or rubbish is allowed. Any recyclable materials must be recycled, and the Contractor will be required to provide recycling plan.
 - (b) **Final Cleaning:** Before final acceptance by the State, the Contractor must clean all Work and existing surfaces, building elements and contents that were soiled by their operations and make repairs for any damage or blemish that was caused by the Work.

END OF SECTION 01700

SECTION 01800 MAINTENANCE

1. The Contractor is responsible for maintaining the following parts of Work in good order and proper working conditions and must take all necessary actions for their protection until they are placed for use by the Owner:
 - (a) public rights-of-way including sidewalks and curb cuts,
 - (b) adjacent private property

END OF SECTION 01800

DIVISION 02

SITE WORK

SECTION 02005 MAINTENANCE OF EXISTING CONDITIONS

I. GENERAL:

A. JOB CONDITIONS:

1. It shall be the Contractor's responsibility to notify MISS-DIG and locate/confirm all utilities within the excavation areas prior to proceeding with site work. The Contractor is to immediately contact and seek consultation with the Project Director and Professional upon encountering any subsurface structure, utility line, or unknown within the work area not previously discussed with the same.
2. It is anticipated that active utility lines will be encountered within the excavation area. The Contractor is to cut, cap and subsequently re-construct, support or relocate all utilities encountered during the Work in a manner which minimizes service interruptions to adjacent utility customers. Fees associated with the maintenance of site utilities will be the responsibility of the Contractor.
3. The Contractor will protect the structural integrity of the adjacent buildings, structures and right of ways while excavating or otherwise working onsite. Damage to the surface and subsurface structures located adjacent to the proposed excavation due to the Work shall be repaired at the Contractor's expense. Installation and removal of an engineered temporary earth retention system if required to protect adjacent structures shall be the responsibility of the Contractor. Contractor shall protect personnel and surrounding structures as well as maintain excavation sidewall integrity.
5. Wherever culverts, sewers, drains, manholes, catch basins, catch basin connections, water mains, valve chambers, electric conduits, telephone conduits, or any other underground constructions that are part of the public infrastructure are encountered by the Contractor during the Work, they shall be protected and firmly supported by the Contractor, at his/her own expense, until the construction work is complete and the existing structures are made secure. The Contractor is responsible for supporting utility poles as applicable. Injury to any such utilities/structures caused by or resulting from the Contractor's work shall be repaired at the Contractor's expense. The authority having charge of any particular underground structure shall be notified promptly of injury to its structure.
6. No additional compensation will be allowed for any delays, inconvenience, or damage sustained by the Contractor due to any interference from said utility appurtenances or the operation of moving them by the utility companies.
7. Whenever the Professional may require, pipe or other underground structures encountered in excavating or trenching, shall be permanently supported with suitable supports across the excavation or trench.
8. Coordination with Utilities:
 - a. The Contractor shall allow the State, Professional, other contractors, and public service corporations, or their agents, to enter upon the work for the purpose of constructing, maintaining, repairing, removing, altering or replacing such pipes, sewers, conduits, manholes, wires, poles, or other structures and appliances as are not located or as may be required or permitted at or on the work by the Professional. The Contractor shall cooperate with all aforesaid parties and shall allow reasonable facilities for the prosecution of any other work by others to be done in connection with this work. Care shall be taken at all times to inconvenience abutters as little as possible.
 - b. Temporary provisions shall be made by the Contractor to insure proper functioning of all gutters, sewer inlets, drainage ditches, which shall not be obstructed except as approved by the Professional.

END OF SECTION 02005

SECTION 02150 TRAFFIC CONTROL

I. GENERAL

A. DESCRIPTION

The Work will be completed adjacent to Dexter Avenue and Monterrey Avenue. These roads are public thoroughfares maintained and managed by the City of Detroit or County of Wayne. Contractor is responsible for obtaining any permits required for traffic control or use of the public thoroughfares.

B. WORK INCLUDED

1. Compliance of all vehicles entering and leaving the site with all safety requirements and licensing requirements of the local, State, and Federal regulations.
2. Procurement of necessary City, County and/or State permits.

II. PRODUCTS

- A. All signs, barricades, warning lights, and other traffic control devices, shall be in accordance with MDOT, county and city requirements. Signing must be in accordance with the most current edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD).
- B. Temporary traffic control devices shall be maintained properly as specified in the MDOT 2003 Standard Specifications for Construction.
- C. All traffic control devices damaged or lost by the Contractor shall be replaced at the Contractor's expense without delay.
- D. Fabrication, rental, installation, and removal of temporary signs shall be the responsibility of the Contractor.
- E. All temporary signs shall be faced with prismatic retro reflective sheeting.
- F. All temporary signs shall be in place prior to implementation of the work.

III. EXECUTION

- A. The Contractor shall obtain all required permits for this work.
- B. Roadways adjoining the proposed project will be open to through traffic and the work shall not impede traffic flow unless approved in advance with the city, county or State along with required permits.
- C. The Contractor shall maintain access to all residences and businesses at all times and shall be responsible for construction signing within the project limits.
- D. Contractor shall adhere to all local ordinances.
- E. The Contractor shall not park any vehicle or store any material on public property or private property except as approved by the Professional.

END OF SECTION 02150

SECTION 02160 DEWATERING

I. GENERAL

A. DESCRIPTION

This work shall consist of the labor, materials, supplies, power, equipment, tools, etc. required to excavate impacted soil within the proposed excavation and properly store, transport, and dispose of the accumulated liquids. It shall also include the operation and monitoring of the dewatering system and the sampling analysis (if required) required for this purpose.

The scope of work is intended to remediate impacted soil to a depth of approximately 15 feet below ground surface. The potential exists for the accumulation of precipitation during excavation activities. This work will be accomplished from the ground surface utilizing a vac-truck. Other methods presented by the Contractor may be considered. The system shall be in use only for the amount of time as necessary. Appropriate precautions shall be taken to prevent contamination of clean areas in addition to the requirements below.

All surface water and runoff water that is required to be pumped out of the excavation will not be paid for under this contract. It is the Contractor's responsibility to prevent runoff water from entering the open excavation.

II. PRODUCTS

The materials required to accomplish this work shall be determined by the Contractor considering.

The Professional may order corrections in the system at any time due to deficiencies in the system used to control the groundwater at no additional cost to the Owner.

III. EXECUTION

A tank or truck, as approved by the Professional, shall be brought on site to remove and/or contain dewatered liquids, prior to disposal. The Contractor shall collect a waste characterization sample from all liquids removed from the excavation. The sample shall be analyzed pursuant to the requirements of the disposal/recycling facility. Arrangements for the disposal of the dewatered liquids are the Contractor's responsibility.

END OF SECTION 02160

SECTION 02220 EXCAVATION

I. GENERAL:

A. WORK INCLUDED

1. Excavation, removal, and disposal of contaminated soils and incidental debris (monitoring wells, building materials, rock, etc.) to an approximate maximum depth of 15 feet below grade as directed by the Project Director or Professional. It is the goal of this work to remove all contaminated soil from this site. The base bid designated quantity of soil for removal is 10,000 tons (refer to Section 01010).
2. Additional characterization as required for disposal of excavated soil. Any additional characterization sampling and analysis is the responsibility of the Contractor. The Professional shall be notified and observe the collection of all waste characterization samples by the Contractor and shall review the analytical requirements of the disposal facility prior to Contractor's submittal of the waste characterization samples for analysis.
4. Protection of excavation and adjacent structures/utilities. Onsite surface and subsurface structures located adjacent to the proposed excavation are to be sufficiently protected from potential damages due to the Work by means determined by the Contractor. Damage to the surface and subsurface structures located adjacent to the proposed excavation due to the Work shall be repaired at the Contractor's expense. Installation and removal of the earth retention system (design is included within this bid package) shall be the responsibility of the Contractor to protect personnel and surrounding structures as well as maintain excavation sidewall integrity.
4. Restoration of concrete sidewalk and curb sections, grass, and gravel surfaces and structures.

B. RELATED SECTIONS

1. Section 02005 – Maintenance of Existing Conditions
2. Section 02160 – Dewatering
3. Section 02223 – Offsite Transportation and Disposal
4. Section 02225 – Backfill
5. Section 02501 – Surface Restoration

C. REFERENCES

The following publication of the issue listed below forms a part of this specification to the extent referenced. The publication is referred to in the text by basic designation only.

- i. MDOT, Standard Specifications for Construction, 1996 Edition
- ii. 29 CFR Part 1926 Safety and Health Regulations for Construction

D. SUBMITTALS

1. Work Plan

The Contractor shall prepare and implement a Work Plan as described in Section 01300.

2. Analytical Reports

The Contractor shall submit all analytical results for any additional sampling for disposal characterization of excavated soil and/or groundwater to the Professional.

3. Disposal Documents

The Contractor shall provide copies of all licenses, certifications, permits, agreements, manifests, chain of custody records, weigh tickets, meter recordings, delivery tickets, and receipts required or issued for the disposal of materials to the Professional. The Contractor is responsible for providing the weight tickets from the landfill to the Professional by the next working day. The Contractor shall also provide a copy of the results of tests performed to comply with the requirements of each disposal facility.

E. PROJECT COORDINATION

The Contractor shall carefully coordinate the work in this Section with all other work. The work shall be compliant with OSHA regulations and other applicable safety requirements.

The Contractor shall verify on-site utility line locations that are in close proximity to the work areas. Utility lines may include but are not limited to the following: telephone, cable, electric, water, sewer, and gas lines.

II. PRODUCTS

Not used.

III. EXECUTION

A. PREPARATION

1. The Contractor shall contact MISS-DIG and other applicable local utility companies/authorities for utility identification a minimum of three working days prior to any excavations. The Contractor shall comply with 1974 PA 53, as amended, MCL 460-701 et seq., and all other laws concerning underground utilities.
2. The Contractor shall take extreme care during the site activities to prevent cross contamination of contaminated soil or debris with non-contaminated soil or debris. Excavated soils are to be directly loaded for transport whenever possible. In the event that staging of excavated soils is required, impacted soils may not be staged in areas not previously determined to be impacted and must be staged on a layer of plastic sheeting. Adequate measures shall be taken to prevent surface water from entering Work areas.
3. Personnel working inside and around the excavation area shall be trained and thoroughly familiar with the safety precautions and equipment required for controlling potential hazards associated with this work. All site personnel are required to have current OSHA HAZWOPER health and safety training as well as medical monitoring approvals. It is assumed that Level D PPE conditions will apply during disposal activities.
4. The Contractor shall be responsible for any additional sampling and analyses necessary for disposal and/or waste characterization.
5. Paved surfaces must be saw cut at proposed edges and joints to facilitate restoration.

B. PROTECTION

1. The Contractor shall supply temporary fencing and block excavations at the end of each workday. Excavations should be checked each day for adequacy of protection. Costs associated with protection of the excavation are incidental to the project.
2. The Contractor shall protect the public, utilities, and surrounding properties and buildings from hazards related to excavation activities. As part of the overall Health and Safety Plan, the Contractor shall continuously monitor air quality at the site perimeter, as necessary to protect the property owner and public health. Visible fugitive dust shall not be allowed beyond the project boundaries. Odor control during non-work periods (i.e. overnight, weekends, etc) may be necessary if strong petroleum odors are present. Contractor shall provide and institute odor control measures at the request of the Professional.
3. The Contractor is responsible for protecting the sides of open excavations to prevent collapse.

4. The Contractor shall appropriately protect the safety of the workers.
5. The Contractor shall provide necessary engineering controls to support the excavation and protect adjacent structures and utilities.

C. EXCAVATION AND REMOVAL

1. Any monitoring performed by the Professional will be for his/her information; the Contractor shall provide for its own monitoring requirements.
2. Excavated contaminated soils should be directly loaded for transportation and proper offsite disposal. Temporary staging of contaminated soil is allowed, only on previously known contaminated areas at the site. Temporarily staged soils must be placed on plastic (6 mil minimum thickness). The plastic liner shall have a minimum 2-ft wide soil-free perimeter around the staged soils. Staged soils shall be sloped to minimize creeping or sloughing of the soils. Staged soils shall be covered daily with plastic sheeting to prevent run-off from precipitation. Any further spread of site contamination due to the Contractor's failure to control such contamination shall be corrected at the Contractor's expense.
3. Dewatering of hazardous and/or contaminated soil to facilitate excavation and/or disposal activities shall be performed by the Contractor in accordance with Section 02200 – Dewatering.
4. The Contractor shall remove existing parking lot material (i.e. asphalt, concrete curbs, etc.), and all miscellaneous debris, waste and unsatisfactory materials resulting from this work from the Site, unless otherwise specified or directed by the Professional, and upon removal shall become property of the Contractor. Recycling of pavement materials is encouraged; however it is the Contractor's responsibility for removal and disposal/recycling of parking lot materials at their own discretion.
5. Costs associated with the handling and disposal of any previously unknown subsurface structures that may be encountered during excavation and require specialized handling or disposal (vaults, tanks, drums, etc.) shall be addressed under the Schedule of Alternates after authorization by the Owner or considered out of scope.

D. EXAMINATION, TESTING, AND ANALYSIS

1. Environmental verification sampling and analysis for the excavated area are the Professional's responsibility. The Contractor is responsible for assisting in sample collection and scheduling time needed for the confirmation sampling.
2. The details of soil sampling (locations, number and specific procedures) as required by the approved disposal facility and the State of Michigan for the purposes of characterizing the waste prior to disposal of contaminated soils shall be the responsibility of the Contractor. The cost associated with sampling and analysis shall be incidental to the project.

E. DISPOSAL

The materials required to be removed and disposed of and all waste, excess, and unsatisfactory materials resulting from work required under this Section shall be removed from the site, unless otherwise specified or directed. All disposals shall conform to local, State, and Federal regulatory requirements. See Section 02223 – Offsite Transportation and Disposal.

F. QUALITY CONTROL

The Contractor shall establish and maintain a quality control system for all operations performed under this Section to assure compliance with contract requirements and maintain records of its quality control for all operations performed, including, but not limited to, the following:

1. Observance of safety regulations
2. Quality of materials
3. Protection, maintenance, and repair

G. SITE RESTORATION

1. Restoration of on-site areas is described in Section 02501 – Surface Restoration.
2. All disturbed offsite concrete surfaces and structures (curbs, gutters, sidewalks, light standards, etc.) shall be replaced with like or better materials, pursuant to the requirements of the MDOT Standard Specifications for Construction and to the satisfaction of the property owner, Road Commission, and Professional.

END OF SECTION 02220

SECTION 02223 OFFSITE TRANSPORTATION AND DISPOSAL

I. GENERAL

A. DESCRIPTION

Based on the available information, onsite soils, groundwater, solid and liquid waste materials are anticipated to be non-hazardous. Therefore, these materials will be transported and disposed as non-hazardous solid and liquid waste unless hazardous materials are encountered.

B. WORK INCLUDED

1. Compliance of all vehicles entering and leaving the site with all safety requirements and licensing requirements of the local, State, and Federal regulations.
2. Preparation of vehicles to prevent spillage or contamination.
3. Transportation of equipment to and from the site.
4. Characterization sampling and analysis as required by the disposal facilities.
5. Transportation of contaminated soils and liquids from the site to an approved facility.
6. Inspection and decontamination of vehicles before leaving the site.

C. REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

CODE OF FEDERAL REGULATIONS (CFR)

29 CFR Part 1910	Occupational Safety and Health Standards
29 CFR Part 1926	Safety and Health Regulations for Construction
40 CFR Part 261	Identification and Listing of Hazardous Waste
40 CFR Part 262	Standards Applicable to Generators of Hazardous Waste
40 CFR Part 263	Standards Applicable to Transporters of Hazardous Waste
40 CFR Part 264	Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR Part 265	Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
49 CFR Part 171	Department of Transportation Regulations to Stipulate Requirements for Containers and Procedures for Shipment of Hazardous Waste
49 CFR Part 172	Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements
49 CFR Part 173	Shippers General Requirements for Shipment and Packaging
49 CFR Part 177	Carriage by Public Highway
49 CFR Part 180	Rules for Continuing Qualifications and Maintenance of Packaging

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 30	(1990) Flammable and Combustible Liquids Code
NFPA 70 B	(1990) Recommended Practice for Electrical Equipment Maintenance
NFPA 325M	Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids

STATE OF MICHIGAN

PA 451, PART 201	Environmental Remediation
PA 451, PART 211	Underground Storage Tanks
PA 451, PART 213	Leaking Underground Storage Tanks

PA 451, PART 111 Hazardous Waste Management Act
PA 451, PART 115 Solid Waste Management Act
PA 451, Part 121 Liquid Industrial Waste Act

D. PRE-WORK SUBMITTALS

1. The Contractor shall submit a Spill Contingency Plan for transportation of solids and liquid (may be included as an appendix in the Work Plan). The Plan shall address all the potential hazards, necessary actions to follow in case of spills, and emergency phone numbers enroute.

E. PROJECT RECORD DOCUMENTATION

The following records shall be maintained by the Contractor and submitted to the Professional in accordance with Section 01300. Costs of recordkeeping are incidental to the project.

1. Manifests

The Contractor shall be responsible for completing manifests, submitting the appropriate copy of the manifest to the licensed disposal facility, submitting the appropriate copy of the manifest to the generator, and retaining a copy for his/her records. All manifests shall be in accordance with the requirements of all the applicable Federal, State and local regulations. Manifests shall be signed by the Project Director or Professional on behalf of the State.

2. Disposal Documents

The Contractor shall provide copies of all licenses, certifications, permits, agreements, manifests, chain of custody records, bills of lading, weight tickets, meter recordings, delivery tickets, certificates of destruction, and receipts required or issued for the disposal of materials, the methods used, and the disposal areas and facilities. The Contractor shall also provide a copy of the results of tests performed to comply with the requirements of each disposal facility.

3. Documentation that the measuring devices used are certified by the appropriate State inspection agency.

4. Analytical reports for all characterization samples submitted to a laboratory by the Contractor.

F. SAMPLING AND ANALYTICAL TESTING

All analytical testing and sampling, as required, shall be performed by a laboratory that routinely provides analytical services acceptable to the Owner. Any sample collection, shipping, and laboratory analytical costs (associated with waste characterization required by the disposal facility) shall be paid for by the Contractor and are incidental to the Contract. Sampling as required or as specified by the Professional shall be performed by the Contractor or Contractor's person. It is the Contractor's responsibility to submit all sample analytical results in a timely fashion to the Professional. Verification of Soil Remediation sampling shall be completed by the Professional and is not the responsibility of the Contractor.

The sampling and testing requirements for hazardous or contaminated material disposal shall be the Contractor's responsibility.

II. PRODUCTS

A. EQUIPMENT

1. The Contractor shall provide equipment, personnel, and facilities necessary to handle, load, and transport materials, including but not limited to site equipment and contaminated soils.
2. Equipment shall be maintained and operated in compliance with all local, State and Federal requirements.

III. EXECUTION

A. GENERAL

1. Preparation

The Contractor shall be responsible for obtaining and providing all required permits, including confined space entry permits (if necessary). The Contractor shall provide approved containers, vehicles, equipment, labor, labels, and manifests and other documents necessary for accomplishment of the work.

2. Safety Guidelines

- a. All work associated with hazardous materials shall be performed at appropriate Personal Protection Level as defined by OSHA as specified in 29CFR 1910.120.
- b. Personnel conducting the work shall be trained and made thoroughly familiar with the safety precautions, procedures, and equipment required for controlling the potential hazards associated with this work.

3. Control of Work

The Contractor shall perform work in accordance with the requirements of the drawings and specifications and shall take direction only from the Project Director or Professional for this contract. Any other party that proposes to give direction to the Contractor shall be immediately referred to the Professional.

B. AIR MONITORING

As part of the overall Health and Safety Plan the Contractor shall monitor air quality at the site, as required, to protect workers and neighbors. Contractor shall establish action levels for organic vapors, dusts, etc. to protect the health and safety of the employees and other on-site personnel consistent with OSHA permissible exposure limits (PELs) and other applicable USEPA requirements.

C. REMOVAL AND DISPOSAL/RECYCLING

1. Disposal of non-hazardous and hazardous materials shall be in accordance with all local, State, and Federal solid and hazardous waste laws and regulations, including RCRA, Michigan Act 64, Act 136, Act 451, Administrative Circular 36A, and conditions specified herein.

2. Hazardous Materials:

All hazardous materials encountered shall be removed from the project site and disposed at a licensed facility approved for each specific material. The Contractor shall provide the Professional with manifests, certificates and other such evidence as may be required by Federal, State, and local regulations, to show that hazardous waste materials of all types were properly transported to, received at, and disposed in approved disposal facilities.

3. Subsurface structures:

Items encountered during excavation and designated for removal (underground storage tanks, monitoring wells, conduit, debris, etc.) shall be disposed of at a licensed disposal or recycling facility.

D. LOADING AND HAULING

1. All transport vehicles shall be in strict conformance with all the applicable Federal, State, and local laws.
2. All transport vehicles shall be clean of offsite contamination before arriving at the site.
3. The waste shall be transported by a certified waste hauler in accordance with all Federal, State, and local laws.
4. All haul vehicles are to be inspected for soil or waste adhesion to wheels, undercarriage, sides, top, gate, etc. These soils shall be removed and properly handled by the Contractor before leaving site. The decontamination procedures shall be carried out in the decontamination zone. All the vehicles may be inspected before leaving the site by the Professional at the Project Director's or Professional's discretion. All rinse waters are to be collected for temporary storage prior to disposal. The Contractor will sample collected rinse waters to ensure proper disposal. The Contractor shall be responsible for the disposal and any associated testing of rinse water. All associated decontamination costs are incidental to the project.
5. Transport vehicles that are leaking or spilling materials shall not be allowed to leave the site. Professional approval is required before any liquid or solid material leaves the site.
6. Soils which are tracked off site and into the adjacent roadway shall be swept up and included with soils to be disposed of. Sweeping shall be conducted as necessary.
7. The Contractor shall keep accurate records for the type and quantity of materials, including liquids, removed from the site and analytical testing results.
8. The Contractor shall provide the Professional with copies of the above records, all required permits, manifests, waste

hauling permits, and necessary affidavit regarding the waste materials.

E. DISPOSAL

1. All disposals shall conform to Federal, State, and local government regulations.
2. For contaminated wastes, the Contractor shall use a State of Michigan approved manifest system so that the waste can be tracked from generation to ultimate disposal. The manifest shall comply with all of the provisions of the transportation and disposal regulations. All transporters must sign the appropriate portions of the manifest and must comply with all of the provisions established in the applicable regulations. Waste manifests will be signed by the Project Director or Professional.
3. Contaminated materials shall be disposed at an approved licensed disposal facility.
4. Arrangements for disposal shall be made by the Contractor.

F. SPILLS

The Contractor is responsible for cleaning up all leaks and spills from containers and other items on site or off site that occur. Immediate containment actions shall be taken as necessary to minimize the effect of any spill or leak. The Contractor shall notify the Professional and appropriate governmental authorities of the incident. Cleanup shall be in accordance with applicable Federal, State, and local laws and regulations at no additional cost.

END OF SECTION 02223

SECTION 02225 BACKFILL

I. GENERAL:

A. WORK INCLUDED

1. The Contractor shall furnish and place backfill materials as specified by the Professional.
2. The Contractor shall level and compact backfill materials and demonstrate compliance with the backfill compaction requirements described in this Section.

B. RELATED SECTIONS

1. Section 02160 – Dewatering
2. Section 02220 – Excavation
3. Appendix VI – Remedial Action Work Plan

C. REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

MDOT, Standard Specifications for Construction, 1996 Edition

D. SUBMITTALS

1. The Contractor shall prepare and implement a Work Plan as described in Section 01300.
2. The Contractor shall provide copies of all product literature, certifications, manifests, delivery tickets, and receipts required or issued for the delivery and application of backfill materials.
3. The Contractor shall furnish test results or certification from the borrow source indicating that the backfill material is MDOT Class 2 granular material, and shall be uncontaminated and free of trash, debris, roots, and other organic and deleterious material.

E. PROJECT COORDINATION

The Contractor shall coordinate the work in this Section with all other work. The work shall be compliant with OSHA regulations and other applicable safety requirements.

II. PRODUCTS:

A. SUITABLE FILL AND BACKFILL MATERIALS REQUIREMENTS

1. As needed to backfill the excavation to grade the Contractor is required to use clean MDOT Class 2 sand from an offsite source.
2. If necessary, MDOT Class 4G or Class 34R/G gravel or equivalent acceptable to the Professional or State may be placed in the bottom of the excavation when standing water is present. The MDOT Class 4G or Class 34R/G gravel shall be placed in a manner and thickness that will allow the overlying MDOT Class 2 sand to be compacted to sufficient density as described in this specification. Geotextile fabric utilized within the excavation area by the Contractor must be a 6oz non-woven product.

B. UNSUITABLE MATERIALS

1. Contaminated soils, including but not limited to:
 - a. Soils that are visually or olfactory impacted. The Professional shall monitor the excavation filling for visual and/or olfactory evidence of contamination and/or with a photoionization detector (PID).
 - b. Soils with no analytical data or other confirmation that the source is not impacted.
2. Soils which cannot be compacted sufficiently to achieve the density specified for the intended use.
3. Materials that contain hazardous or designated waste materials including petroleum hydrocarbons, pesticides, heavy metals, and any material which may be classified as hazardous or toxic according to applicable regulations.
4. Pavement or other debris.

III. EXECUTION:

A. PREPARATION

1. The Contractor shall take care during the site activities to prevent cross contamination of hazardous or contaminated soil with non-hazardous/non-contaminated soil.
2. Personnel working inside and around the excavation area shall be trained and thoroughly familiar with the safety precautions and equipment required for controlling potential hazards associated with this work.
3. The Contractor shall backfill the excavation as directed by the Professional. The Contractor shall not backfill the excavation until approved by the Project Director and/or Professional.

B. PLACEMENT

1. Backfill materials shall be spread in layers of uniform thickness not exceeding 12 inches and shall be thoroughly compacted with suitable power drive tampers or other power driven equipment. If consistent compaction of 12" lifts is achieved, use of 24" lifts may be allowed at the Professional's discretion if compaction of the 24" lift is also achieved. The Contractor shall backfill the excavation to a depth sufficient to allow site restoration activities to be complete as specified in Sections 02501.

C. DISPOSAL

The excess materials resulting from work required under this Section shall be removed from the site, unless otherwise specified or directed. All disposals shall conform to local, State and Federal regulatory requirements. The Contractor shall bear the costs for any offsite transportation and disposal of non-impacted soil stockpiled for backfill.

D. QUALITY CONTROL

The Contractor shall establish and maintain a quality control system for all operations performed under this Section to assure compliance with contract requirements and maintain records of its quality control for all operations performed, including, but not limited to, the following:

1. Observance of safety regulations
2. Quality of materials
3. Protection, maintenance, and repair of equipment
4. Written documentation of compaction activities

END OF SECTION 02225

SECTION 02420 ABANDONED UST REMOVAL

I. GENERAL

A. WORK REQUIRED

1. Contractor is responsible for properly removing USTs in accordance with applicable regulations and guidelines including Michigan Department of State Police Codes for the "*Storage of Flammable and Combustible Liquids*" and the American Petroleum Institute's (API's) "*Removal and Disposal of Used Underground Petroleum Storage Tanks - API Recommended Practice 1604*." UST removal activities include but are not limited to (1) accessing the UST for liquid disposal and/or inspection, (2) liquid recovery and disposal, (3) vapor freeing (i.e., "inerting") the UST, (4) removal, cutting, cleaning, rendering un-usable, and readying for transport, and (5) transport and proper disposal. Contractor is responsible to provide executed tracking/disposal documents to Professional.

2. The work described within this section shall consist of the labor, materials, supplies, power, equipment, tools, etc. required to remove, clean and properly dispose of the UST and any associated contents.

B. RELATED SECTIONS

1. Section 01300 – Submittals
2. Section 02223 – Offsite Transportation and Disposal
3. Appendix VI – Remedial Action Work Plan

C. REGULATORY REFERENCES

The following publication of the issue listed below forms a part of this specification to the extent referenced. The publication is referred to in the text by basic designation only.

- i. API, Removal and Disposal of Used Underground Petroleum Storage Tanks - API Recommended Practice 1604
- ii. 29 CFR Part 1926 Safety and Health Regulations for Construction
- iii. Michigan Department of State Police Codes - Storage of Flammable and Combustible Materials

D. SUBMITTALS

1. In accordance with Section 01300, Contractor shall provide copies of all licenses, certifications, permits, agreements, manifests, chain of custody records, weigh tickets, meter recordings, delivery tickets, and receipts required or issued for the disposal of materials to the Professional. Contractor is responsible for providing the liquid disposal manifests from the disposal facility to the Professional by the next working day. Contractor shall also provide a copy of the results of tests performed to comply with the requirements of each disposal facility.

II. PRODUCTS

Not used.

III. EXECUTION

A. PROJECT COORDINATION

1. Contractor shall carefully coordinate the work in this Section with all other work. The work shall be compliant with OSHA regulations and other applicable safety requirements.
2. Contractor shall verify on-site utility line locations that are in proximity to the work areas. Utility lines may include but are not limited to the following: telephone, cable, electric, water, sewer, and gas lines.
3. USTs and components shall be placed on plastic sheeting prior to cleaning, and shall remain on plastic sheeting until loaded onto transport vehicles for off-site disposal or recycling.

B. DISPOSAL

1. The materials required to be removed and disposed of and all waste, excess, and unsatisfactory materials resulting from work required under this Section shall be removed from the site, unless otherwise specified or directed. All disposals shall conform to local, State, and Federal regulatory requirements. See Section 02223 – Offsite Transportation and Disposal.

C. QUALITY CONTROL

1. CONTRACTOR shall establish and maintain a quality control system for all operations performed under this Section to assure compliance with contract requirements and maintain records of its quality control for all operations performed, including, but not limited to, the following:
 - a. Observance of safety regulations
 - b. Quality of materials
 - c. Protection, maintenance, and repair

END OF SECTION 02420

SECTION 02501 SURFACE RESTORATION

I. GENERAL:

A. Description:

1. The Contractor shall install a vegetative cover over disturbed portions of the property.

B. Related Sections:

1. Section 02220 – Excavation
2. Section 02225 – Backfill
3. Appendix VI – Remedial Action Work Plan

C. References:

The following reference, not a comprehensive list, is part of this specification to the extent referenced.

1. Michigan Department of Transportation (MDOT) 2004 Standard Specifications for Construction.
2. Subsection 803.03 of the Standard Specifications for Construction and standard plan R-29 series.

B. PRODUCTS:

A. Materials:

1. Materials used for the vegetative cover shall meet the requirements as described in MDOT 2004 Standard Specifications for Construction.

C. EXECUTION:

A. Installation:

1. Preparation of Subgrade:
 - a. Smooth and trim the subgrade to the required grade, line, and cross section to receive topsoil.
 - b. The subgrade shall be smooth and free from irregularities in grade to prevent ponding of precipitation.
2. Placing Topsoil:
 - a. Place 4-inch topsoil layer uniformly, and shape with grader or other approved equipment until free from waves and irregularities.
 - b. Compact by rolling.
 - c. Fine grade as necessary to bring surface into conformance with the proper elevation and sloping. Compact areas which have been re-graded.

END OF SECTION 02501

SECTION 02560 EROSION AND SEDIMENT CONTROL

I. GENERAL

A. WORK REQUIRED

1. The Contractor shall furnish, install, and maintain as long as necessary and remove when no longer required, all necessary engineering controls to prevent erosion and sedimentation of on-site soils as required by, and in accordance with Part 91 of P.A. 451 and any local, State, and Federal soil erosion and sedimentation control permit.
2. The Contractor shall be responsible for all application fees and all necessary permits for soil erosion and sedimentation control, prior to the commencement of work.

B. RELATED SECTIONS

1. Section 02220 – Excavation
2. Section 02160 – Dewatering
3. Section 02225 – Backfill

a. REFERENCES

The following references, not a comprehensive list, are part of this specification to the extent referenced.

1. State of Michigan: Part 91 of P.A. 451, Soil Erosion and Sedimentation Control (formerly P.A. 347)
2. Michigan Department of Natural Resources and Environment, Guidebook of Best Management Practices for Michigan Watersheds
3. United States Environmental Protection Agency, Storm Water Management for Construction Activities (EPA 832-R-92-005)
4. Army Corps of Engineers, Engineering Design: Handbook for the Preparation of Storm Water Pollution Prevention Plans for Construction Activities (USACE EP 1110-1-16)

D. SUBMITTALS

The following shall be submitted in accordance with Section 01300 – Submittals:

1. Prior to proceeding with site work, the Contractor shall submit a Soil Erosion and Sedimentation Control Implementation and Sequencing Plan. This Plan may be included as part of the Work Plan. The Soil Erosion and Sedimentation Control Implementation and Sequencing Plan shall include at a minimum the following:
 - a. Implementation, schedule and sequence for installation and removal of temporary and permanent soil erosion and sedimentation control measures.

- b. Name and contact information of the person responsible for maintenance.
2. The Soil Erosion and Sedimentation Control Implementation and Sequencing Plan shall be based on Part 91 of P.A. 451 and the costs associated with all permit application and fees and of work plan preparation are incidental to the project.
3. The Contractor shall also submit to the Professional, the following items:
 - a. A copy of correspondence relating to termination of the Soil Erosion and Sedimentation Control Permit and other associated permits

II. PRODUCTS

A. MATERIALS

1. Materials used for permanent and temporary erosion and sedimentation controls shall meet the requirements as described in MDOT's 2004 Standard Specifications for Construction.

III. EXECUTION

A. GENERAL

1. Pumping and Drainage:

The Contractor shall provide all pumping necessary to keep excavations free from water the entire period of Work on the contract. The Contractor shall construct and maintain any necessary surface drainage systems on the Work site so as to prevent water entering existing structures, flowing onto public or private property adjacent to the site, into existing drainage courses or existing drainage systems. The Contractor shall prevent erosion of soils and blockage of any existing drainage system, such as storm sewers. All storm sewer inlets and catch basins shall be protected from sediment infiltration and accumulation by use of erosion control bags or equivalent material. The related costs are incidental to the project.

2. The Contractor shall design and construct temporary terrain features such as slope and drainage ways to minimize erosion potential of the exposed site, based on the soil type, time of year, proximity to water ways and surface water, duration of exposure, length and steepness of the slope, and the anticipated volume and intensity of runoff.
 - a. The Contractor shall minimize the surface area of unstabilized soils left unprotected and vulnerable to runoff and wind at all times.
 - b. The Contractor shall minimize the amount of time that unstabilized areas are exposed to erosive forces.
 - c. When possible, the Contractor shall protect and shield exposed soil areas with live vegetation cover, mulch, or other approved erosion resistant material during the temporary and permanent control periods of construction.
 - d. The Contractor shall avoid concentrating runoff. When concentrated runoff cannot be avoided, runoff velocities shall be reduced to non-erosive velocities.
 - e. Eroded sediments will be trapped on site with temporary and permanent barriers, basins, or other sediment retention devices, while allowing for the controlled discharge of runoff waters at non-erosive velocities.
 - f. The Contractor shall implement a continuous inspection and maintenance program.
 - g. The Contractor shall implement and follow the Soil Erosion and Sedimentation Control Plan and any other applicable requirements and regulations for the duration of onsite activities.
 - h. The Contractor shall be responsible for notifying the appropriate agencies, upon completion of work, that the Soil Erosion and Sedimentation Control Permit and coverage under the State's General Storm Water Permit for Construction Sites are no longer needed and should be terminated. This notification shall be made in writing and a copy of the notification shall be submitted to the Professional.

B. REMOVAL

The Contractor shall remove all materials used for temporary soil erosion and sedimentation control from the site upon completion of site activities.

END OF SECTION 02560

SECTION 02930 LAWNS, GRASSES, AND TREES

I. GENERAL:

A. DESCRIPTION

1. Provide topsoil, seedbed preparation, fertilizing, seeding, and mulching of all newly graded finished earth surfaces at all areas disturbed by the Contactor's operations
2. Fine grading and preparing of lawn areas.
3. Furnishing and applying new topsoil, soil amendments and fertilizers.
4. Seeding of new lawn areas.
5. Reconditioning existing lawn areas.
6. Refer to Appendix IV – Remedial Action Work Plan

B. SUBMITTALS

1. Test Reports: Submit the following:
 - a. Soil analysis reports for topsoil as specified.
 - b. The Contractor shall provide copies of all product literature, certifications, manifests, delivery tickets, and receipts required or issued for the delivery and application of all materials if requested by the Professional. Contractor is required to provide certification that the topsoil is clean, free of contaminants, and does not exceed, at a minimum, Public Act 451 of 1994, Part 201 Generic Residential Cleanup Criteria for volatile organic compounds (Method SW 8260), semi-volatile organic compounds (Method SW 8270), metals (arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver and zinc), polychlorinated biphenyls (Method SW 8082), and 1,4-dioxane and PFAS is required. PFAS shall be analyzed for using SPLP test method and be non-detect. The Professional may require additional analysis be completed by the Contractor, at no cost to the Owner, for additional parameters based on the source of the topsoil.

II. PRODUCTS

A. SUITABLE TOPSOIL REQUIREMENTS

1. Imported Topsoil:

The Contractor shall obtain topsoil from naturally well-drained sources, where the topsoil occurs at least four inches deep. The Contractor shall not obtain topsoil from bogs or marshes.
3. Topsoil Characteristics:
 - a. Off-site topsoil shall consist of the dark, organic, natural surface soil, exclusive of any peat or muck. Topsoil shall contain not less than 3 and not more than 20 percent organic matter as determined by weight. Maximum particle size shall be 3/4 inch, with a maximum of 3 percent retained on 1/4-inch screen.
 - b. Topsoil shall be clean of stones one inch or larger in any dimension, clay lumps, plants, roots, sticks and other foreign materials harmful to plant growth.

B. GRASS MATERIALS

1. Grass seed:

- a. Classification: State-approved of the latest season's crop delivered in original, durable, sealed bags. Wet, moldy, or otherwise damaged seed will be rejected.
- b. Composition

	Minimum*	Minimum*	Mixture*
Kind	Purity, %	Germination, %	Class A, %
Hard Fescue	97	85	30
Kentucky Bluegrass	98	85	10
Perennial Rye Grass	96	85	20
Creeping Red Fescue	97	85	40

*Proportion seed mixtures by weight

c. Application Rates

- 1. 0.5 pounds per 100 square feet for April 15 through October 10.

C. FERTILIZER

- 1. Composition: Commercial Grade Fertilizer: Chemical fertilizer shall be a ready-mixed granular material containing equal amounts by weight of available nitrogen (N), readily available phosphoric acid (P2O5) and total available potash (K2O) mixed with not less than 40 percent by weight of filler.

D. WATER

- 1. Suitable quality for irrigation.

E. TREES

- 1. The Contractor shall provide deciduous tree saplings, installation, and cultivation. Saplings shall be procured from a local nurseryman, shall be not less than 1-inch in diameter at chest height, shall have a root-ball secured in a burlap wrap (bare root not allowed), and be of an Owner-approved hardwood variety that produces minimal allergens consistent with the local climate and physical location. Installation and cultivation methods shall be adequate to ensure the viability of the planted specimen.

III. EXECUTION

A. TOPSOIL PREPARATION

- 1. The Contractor shall clean topsoil of roots, plants, clods, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
- 2. The Contractor shall mix soil amendments and fertilizers, as needed, with topsoil at rates specified. The mixing of fertilizer shall be delayed if planting will not follow placing of topsoil mixture within a few days. The Contractor shall either mix soil before spreading or apply soil amendments on surface of spread topsoil and mix thoroughly into top four inches of topsoil before planting.
- 3. Preparation of unchanged grades: Where lawns are to be planted in areas that have not been altered or disturbed by excavating, or grading operations, the Contractor shall prepare soil for lawn and grass planting as follows: Till to a depth of at least six inches. Apply soil amendments and initial fertilizers as necessary and mix thoroughly into top four inches of soil. Remove high areas and fill in depressions; till soil to a homogeneous mixture of fine texture, free of lumps, clods, stones, roots and other extraneous matter.
- 4. The Contractor shall grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. The Contractor shall roll and rake, remove ridges, and fill depressions to meet finish grades. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1.5-inches diameter, and other objects that may interfere with planting or maintenance operations.

5. Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface to dry off before planting lawns. Do not create muddy soil.
6. Restore prepared areas to specified condition if eroded or otherwise disturbed after fine grading and before planting.

B. HYDROSEEDING

1. The Contractor shall mix specified seed, fertilizer, and pulverized mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
2. The Contractor shall apply slurry uniformly to all areas to be seeded. Rate of application as required to obtain specified seed sowing rate.

C. RECONDITIONING LAWNS

1. The Contractor shall provide fertilizer, seed or sod, and soil amendments as specified for new lawns and as required to provide satisfactorily recondition to existing lawns. The Contractor shall provide new planting soil as required to provide satisfactorily reconditioned lawn. Provide new planting soil as required to fill low spots and meet new finish grades.
2. The Contractor shall cultivate bare and compacted areas thoroughly to provide a good, deep planting bed.
3. The Contractor shall remove diseased or unsatisfactory lawn areas; do not bury into soil. The Contractor shall remove topsoil containing foreign materials resulting from the Contractor's operations including oil drippings, stone, gravel, and other construction materials; replace with new topsoil.
4. If substantial lawn remains (but is thin), the Contractor shall mow, rake, aerate if compacted, fill low spots, remove humps, cultivate soil, fertilize, and seed. Weeds shall be removed before seeding. If weeds are extensive, selective chemical weed killers shall be applied as required. The Contractor shall apply a seedbed mulch, if required, to maintain moist conditions.
5. The Contractor shall water newly planted areas and keep moist until new grass is established.

D. PROTECTION

The Contractor shall erect barricades and warning signs as required to protect newly planted areas from traffic. Barricades shall be maintained throughout maintenance period until lawn and tree saplings are established.

E. MAINTENANCE

The Contractor shall perform maintenance of vegetation after planting to ensure that adequate grass cover, and tree viability is established. This does not include continued maintenance, such as mowing or watering, once adequate cover is established, but is to include any maintenance that is necessary to ensure that adequate grass coverage and tree viability has been established. Maintenance includes but is not limited to, further filling of low spots or newly eroded areas, reseeding if necessary, watering, and fertilizing.

F. ACCEPTANCE

1. When Work is substantially completed, including maintenance, Professional will, upon request, make an inspection to determine acceptability. Lawn Work may be inspected for acceptance in parts agreeable to Professional, provided Work offered for inspection is complete, including maintenance.
2. The Contractor shall replant rejected work and continue specified maintenance until reinspected by Professional and found to be acceptable.
3. Seeded lawns will be acceptable provided requirements, including maintenance, have been met and healthy uniform close stand of specified grass is established free of weeds, bare spots, and surface irregularities.
4. Sodded lawns will be acceptable provided requirements, including maintenance, have been met and healthy well-rooted, even-colored, viable lawn is established, free of weeds, open joints, bare areas, and surface irregularities.

G. CLEANUP

Promptly remove soil and debris created by work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto surface of roads, walks, or other paved areas

END OF SECTION 02930

APPENDIX I
GLOSSARY

GLOSSARY

Activity– An element in the Progress Schedule establishing a requisite step, or the time and resources required, for completing the part of the Work associated with that Activity.

Addenda– Written instruments that are used by the Owner and/or Professional to incorporate interpretations or clarifications, modifications, and other information into the Bidding Documents. An Addendum issued after Bid opening to those Bidders who submitted a Bid, for the purpose of re-bidding the Work without re-advertising, is referred to as a **post-Bid Addendum**.

Agency- Any unit, section, division, department, or other instrumentality of the State that benefits from the Work.

Alternate– Refers to work specified in the Bidding Documents for which the Bidder must bid a Bid Price.

Apparent Low Bidders: Those Bidders whose Base Bid, when added to those specific Alternates the Owner intends to accept, yields the three lowest sums of Bid and Alternates. Additional Bidders may be considered Apparent Low Bidders if their Bid, when added to those specific Alternates the Owner intends to accept, yields a sum within 10% of the lowest of the Apparent Low Bidder's sum. If a qualified disabled veteran meets the requirements of the contract solicitation, provides acceptable responses to both Part One and Part Two of the Best Value Construction Bidder Evaluation to achieve a Best Value recommendation and with the veteran's preference is the lowest responsive, responsible, best value Bidder it is considered the Apparent Low Bidder.

Archaeological Feature– Any prehistoric or historic deposit of archaeological value, as determined by a representative of a State Agency that is duly authorized to evaluate such findings and render such judgments. An Archaeological Feature deposit may include, but is not limited to Indian habitations, ceremonial sites, abandoned settlements, treasure trove, artifacts, or other objects with intrinsic archaeological value and that relate to the history and culture of the State of Michigan. The Archaeological Features are listed under Section 00800 Supplementary Conditions.

Authorized Technical Data– Information and data contained in a report of exploration and tests of subsurface conditions. Also, any physical data (dimension, location, conditions, etc.) contained in those Drawings of physical conditions of existing surface and subsurface facilities.

Best Value- The bids will be evaluated for best value based on price and qualitative components that may include but are not limited to technical design, technical approach, quality of proposed personnel, and management plans, per PA 430 of 2012.

Bid– Written offer by a Bidder for the Work, as specified, which designates the Bidder's Base Bid and Bid Prices for all Alternates. The term *Bid* includes a *re-bid*.

Bidder– The Person acting directly, or through an authorized representative, who submits a Bid directly to the **Owner**.

Bidding Documents– The proposed Contract Documents as advertised, and all Addenda issued before execution of the Contract.

Bid Price– The Bidder's price for a lump sum item of work, or the product of the Bidder's unit price for an item of Unit Price Work times the quantity given on the Bid Form for that item.

Bid Security– A security serving as a guarantee that the Bidder will conform to all conditions.

Bidding Requirements– The Advertisement, Instructions to Bidders, Supplementary Instructions, Information for Bidders, Bid Form, Bid Form Attachments, and qualification submittals, as advertised and as modified by Addenda, and any other Section included within Division 0 of the Bidding Documents for the purpose of governing bidding and award of the Contract.

Board– The Administrative Board of the State of Michigan.

Bond– Security furnished by the **Contractor**, as required by the Contract Documents.

Business Day– Any Day except Saturdays, Sundays and holidays observed by the **Owner**.

Bulletin– A request used by the **Owner** to describe a change in the Work under consideration by the **Owner** and to request the **Contractor** to submit a proposal for the corresponding adjustment in Contract Price and/or Contract Time, if any.

Calendar Day– Every day shown on the calendar, Saturdays, Sundays, and holidays included.

Cash Allowance– An **Owner**-specified sum included within the Contract Price to reimburse the **Contractor** for the actual purchase/furnished cost of materials and/or equipment or other designated items, as specifically provided in the Contract Documents.

Although the scope (e.g., the required quantity) of any Work covered by a Cash Allowance is sufficiently detailed in the Contract Documents for the purposes of bidding the required labor costs, Subcontract costs, construction equipment costs and general conditions costs and Fee, it is understood that the required materials, equipment or other designated items are of uncertain purchase cost at the time of Bid or are yet to be specified in more detail by the **Professional** as to quality, appearance, durability, finish and such other necessary features affecting purchase price.

Change Order– A written order issued and signed by the **Owner**, which amends the Contract Documents for changes in the Work or an adjustment in Contract Price and/or Contract Time, or both.

Construction Mechanic– A skilled or unskilled mechanic, laborer, worker, helper, assistant, or apprentice working on a state project but shall not include executive, administrative, professional, office, or custodial employees.

Contract Award– The official action of the **Board**, the **Director-SFA** or the **Director-DCD** awarding the Contract to the **Contractor**.

Contract Documents– Written and graphic documents that form the legal agreement between the **Owner** and the **Contractor**, consisting of this document, completed Bid and Contract forms, terms and conditions of the contract, specifications, drawings, addenda, Notice of Award, Notice-to-Proceed and contract change orders.

Contract Price– The total compensation, including authorized adjustments, payable by the **Owner** to the **Contractor** (subject to provisions for Unit Price Work).

Contract Times–The Contract Times for the entire Work are the periods allowed, including authorized adjustments, for Substantial Completion and final completion of the Work. The Contract Times for a designated portion of the Work are the periods allowed for Substantial Completion and final completion of any such portion of the Work, as specified in the Contract Documents.

Contractor– Business enterprise with which the **Owner** has entered into the Contract.

Correction Period– A period during which the **Contractor** must, in accordance with the Contract Documents, (a) correct or, if rejected, remove, and replace Defective Work, and (b) maintain warranties for materials and equipment in full force and effect.

Cost of the Work Involved– The sum of all costs that would be, or were, necessarily incurred by the **Contractor** in providing any Work Involved with the related change, less the costs that would be, or would have been, incurred by the **Contractor** to provide such Work without the related change.

Defective– As determined by the Professional, an adjective which when referring to or when applied to the term “Work” refers to (a) Work not conforming to the Contract Documents or not meeting the requirements of an inspection, test, or approval, or (b) Work itemized in a Punch List which the **Contractor** fails to complete or correct within a reasonable time after issuance of the Punch List by the **Professional**.

Delay– Any act or omission or other event that in any manner adversely affects or alters the schedule, progress or completion of all or any part of the Work. Delay is a generic term intended to include deferral, stoppage, slow down, interruption and extended performance, and all related hindrance, rescheduling, disruption, interference, inefficiency and productivity and production losses.

Department (DTMB)– Department of Technology, Management and Budget of the State of Michigan.

Director- The Director of the **Department**.

Director-SFA- The Director of **DTMB** State Facilities Administration.

Director-DCD- The Director of **DTMB** State Facilities Administration, Design and Construction Division.

Division– Each of the numbered, distinct parts (starting with Division 0) into which the Specifications are divided.

Drawings– Part of the Contract Documents showing the Work. Drawings must neither serve nor be used as Shop Drawings.

Emergency– A condition affecting the safety or protection of persons, or the Work, or property at or adjacent to the site.

State Facilities Administration (SFA)-Entity in the **Department** responsible for design, construction, and operations and maintenance of facilities.

Fee for the Work Involved (Fee)– An established, percentage mark-up on the Cost of the Work Involved which is allowed to the **Contractor** for (a) reasonable administrative costs, and (b) negotiated, reasonable profit on the Cost of the Work Involved.

Hazardous Material– Asbestos containing materials (ACMs), Polychlorinated biphenyls (PCBs), petroleum products, such construction materials as paint thinners, solvents, gasoline, oil, etc., and any other like material the manufacture, use, treatment, storage, transportation, or disposal of which is regulated by federal, state, or local Laws governing the protection of public health, natural resources, or the environment.

Invitation To Bid (ITB) - The solicitation document presenting the terms and conditions that will become part of the Contract when the Bid is accepted.

Law(s)– Means federal, state, and local statutes, ordinances, orders, rules and/or regulations.

MCL– The Michigan Compiled Laws of the State of Michigan.

Means and Methods– Includes means, methods, techniques, sequences and/or procedures applicable to the Work.

Notice of Award– Written notice accepting the Bid to the lowest responsive, responsible Bidder and designating the Contract Price (and establishing the Alternates accepted by the **Owner**).

Notice-to-Proceed– Written notice issued by the Project Director directing the Contractor to commence the construction activities and establishing the start date of the Contract Time.

On-Site Inspection– The **Professional's** on-site examination of the **Contractor's** completed or in progress Work to determine and verify to the Project Director that the quantity and quality of all Work complies with the requirements of the Contract Documents.

Owner– The State of Michigan, with whom the **Contractor** has entered into the Contract and for whom the Work is to be provided.

Owner Field Representative– A State employee or consultant, acting collaboratively with the Project Director, providing on-site, periodic observation and documentation of the Work for compliance with the Contract Documents.

Partial Use– The use, by the **Owner**, of a designated portion of the Work before accomplishing Substantial Completion of the entire Work. Partial Use does not mean Substantial Completion of the portion of the Work placed in use by the **Owner**.

Person– Individuals, partnerships, corporations, receivers, trustees, joint ventures or any other legal entity and any combinations of any of them.

Political Subdivision– Any county, city, village, or other local unit of the State, including any agency, department, or instrumentality of any such county, city, village, or other local unit.

Post-Bid Submittal– A Qualification Submittal required of the Bidder selected under Section 00100 - 22 before Contract Award, and which is used by the Owner in the evaluation of the Bid of the selected Bidder.

Professional Services Contractor (PSC or Professional)– The individual or business entity who has the authority to practice the design disciplines required by the Contract Documents. An Agency with appropriate licensing may replace the PSC in their role if a consultant is not used.

Project– The total construction, which includes the Work and possibly other work completed by others, as indicated in the Contract Documents.

Project Director- Designated State employee(s) (a) Responsible for directing and supervising the **Professional's** services during the period allowed for completion of the Work; and/or (b) Acting as representative for the **Owner** and for the enforcement of the Contract Documents, approving payment to the **Contractor** and coordinating the activities of the State, **Owner**, **Professional** and **Contractor**.

Project Schedule– Work Schedule that shows the **Contractor's** approach to planning, scheduling, and execution of the Work and that accurately portrays completed Work as to sequencing and timing, as provided in the Contract Documents.

Project Specifications– The Contract Documents organized into Divisions. "Technical Specifications" means Divisions of the Specifications consisting of technical descriptions of materials, equipment, construction systems, standards, and workmanship.

Provisionary Allowance– An amount included within the Contract Price to reimburse the **Contractor** for the cost to furnish and perform Work that is uncertain because, for example, it is indeterminate in scope and may not be shown or detailed in the Contract Documents.

Punch List– A list of minor items to be completed or corrected by the **Contractor**, any one of which do not materially impair the use of the Work for its intended purpose.

Qualified Disabled Veteran (QDV)- QDV as defined by Public Act 22 of 2010, MCL 18.1241.3 and supported by a DD214 Proof of Service and Discharge, a Veterans Administration rating decision letter, proof of disability (if the disability is not indicated on the DD214), and appropriate legal documents setting forth the 51% natural persons QDV ownership.

Record Documents– Drawings, Specifications, Addenda, Change Orders, Change Authorizations, Bulletins, inspection, test and approval reports, photographs, written clarifications and interpretations and all other documents recording, or annotated to show, all revisions and deviations between the as-built installation and the Contract Documents, all approved Submittals and all clarifications and interpretations.

Records– Books, reports, documents, electronic data, and other evidence relating to the bidding, award and furnishing and performance of the Work.

Recycled Material– Recycled paper products, structural materials made from recycled plastics, re-refined lubricating oils, reclaimed solvents, recycled asphalt and concrete, recycled glass products, re-treaded tires, ferrous metals containing recycled scrap metals and all other materials that contain (a) waste materials generated by a business or consumer, (b) materials that have served their intended purpose, and/or (c) materials that have been separated from solid waste for collection, recycling and disposition in the percentage determined by the State as provided by Law.

Request for Payment– The form provided by the **Owner** (Payment Request DTMB-0440) to be used by the **Contractor** in requesting payment for Work completed, which must enclose all supporting information required by the Contract Documents.

Schedule of Values– A schedule of pay items, which subdivides the Work into its various parts and which details, for each itemized part, cost and pricing information required for making payments for Work performed. The sum of all pay item costs in the Schedule of Values must equal the Contract Price for the Work.

Shop Drawings– Includes drawings, diagrams, illustrations, standard schedules, performance charts, instructions and other data prepared by or for the **Contractor** to illustrate some part of the Work, or by a Supplier and submitted by the **Contractor** to illustrate items of material or equipment.

Soil Erosion and Sedimentation Control– The planning, design and installation of appropriate Best Management Practices designed and engineered specifically to reduce or eliminate the off-site migration of soils via water runoff, wind, vehicle tracking, etc. Soil erosion and sedimentation control in the State of Michigan is regulated under The Natural Resources Environmental Protection Act; Soil Erosion and Sedimentation Control, 1994 PA 451, Part 91, as amended, MCL 324.9101 et seq. Soil erosion and sedimentation control associated with this Contract is monitored and enforced by the DTMB-SFA.

State– The State of Michigan in its governmental capacity, including its departments, divisions, agencies, boards, offices, commissions, officers, employees, and agents. Non-capitalized references to a state refer to a state other than the State of Michigan.

State Construction Code– The Michigan State Construction Code Act, 1972 PA 230, as amended, MCL 125.1501 et seq.

Subcontractor– A Person having an agreement with the Contractor to provide labor at the site and furnishing materials and/or equipment for incorporation into the Work.

Submittals– Includes technical Submittals, Progress Schedules and those other documents required for submission by the Contract Documents. The term "technical Submittal" includes Shop Drawings, brochures, samples, Operation and Maintenance (O&M) Manuals, test procedures and any other Submittal the Contract Documents require the **Contractor** to submit to demonstrate how the items covered, after installation or incorporation into the Work, will conform to the information given in the Contract Documents and be compatible with the design of the completed Work as a functioning whole as indicated in the Contract Documents.

Substantial Completion– The Work, or a portion of the Work designated in the Contract Documents as eligible for separate Substantial Completion, has been completed in accordance with the Contract Documents as determined by the PSC, to the extent that the **Owner** can use or occupy the entire Work, or the designated portion of the Work, for the use intended without any outstanding, concurrent Work at the site, except as may be required to complete or correct Punch List items.

Supplier– A manufacturer or fabricator, or a distributor, material man or vendor representing a manufacturer or fabricator, who has an agreement with the Contractor to furnish materials and/or equipment.

Underground Utilities– Pipelines, piping, conduit, duct, cables, wells, tanks, tunnels and appurtenances, or other similar facilities, installed underground to convey or support conveyance of potable water, sprinkler or irrigation water, fire protection systems,

electricity, gases, steam, petroleum products, sewerage and drainage removal, telephone, communications, cable TV, traffic, or control systems.

Unit Price Work– The work involving specified quantities (i.e., related Work quantities) which, when performed, is measured by the **Professional** and paid using the measured quantities and unit prices contained in the Contract Documents. Performance of Unit Price Work for undefined quantities is contingent upon conditions encountered at the site, as determined, and authorized by the **Professional**.

Unit Price Work, Specific– Work of specified and defined quantities (i.e., quantities are detailed in, and can be taken-off from, the Contract Documents) that when performed is measured by the **Professional** and paid based on the measured quantities and unit prices contained in the Contract Documents.

Work- (as in “*the Work*,” “*the entire Work*”)– The entire *completed Construction* required by the Contract Documents. The Work results from furnishing and performing all services, obligations, responsibilities, management, supervision, labor, materials, equipment, construction equipment, general conditions, permits, taxes, patent fees and royalties, testing, inspection and approval responsibilities, warranties, temporary facilities, small tools, field supplies, Bonds, insurance, mobilization, close-out, overhead and all connections, devices and incidental items of any kind or nature required and/or made necessary by the Contract Documents.

Work Involved, any Work Involved– Existing or prospective Work (a) reflected in any notice, proposal, or claim, or (b) reflected in changes ordered or in process, or (c) affected by Delay.

APPENDIX II
SPECIAL WORKING CONDITIONS

None

APPENDIX III
SPECIAL PROJECT PROCEDURES

SOIL EROSION AND SEDIMENTATION CONTROL PROJECT PROCEDURES FOR CONTRACTORS ON DTMB OWNED AND MANAGED PROPERTIES

1. Comply with Part 91, Soil Erosion and Sedimentation Control of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended.
2. Contact the DTMB, SFA, Design and Construction Division to discuss the implementation of soil erosion and sedimentation control (SESC) on the Project with DTMB SESC Officer. Phone **(517) 388-3045** or Email DTMB-SESC@michigan.gov.
3. Following the award of a contract, the Contractor will be required to prepare and issue for approval an SESC Implementation Plan, which indicates the Contractor's intended implementation of SESC on the project including a schedule and sequence. The Environmental Health and Safety Section, upon approval of the implementation plan, will issue to the Contractor an "Authorization to Proceed with Earth Change" document, which is to be posted at the job site. This document is issued in lieu of a permit from the county. Earthwork shall not begin prior to the issuance of this Authorization. Upon receipt of the Authorization document, the Contractor may begin earth change activities.
4. See below the "Checklist for Contractor's SESC Implementation Plan" for details of the required information necessary for the Contractor to create the SESC Implementation Plan. The intent of this plan is to ensure that the Contractor has reviewed and understands the SESC provisions within the plans and specifications.
5. **CHECKLIST FOR CONTRACTOR'S SOIL EROSION AND SEDIMENTATION CONTROL IMPLEMENTATION PLAN** (For projects that include earth changes or disturb existing vegetation):

DEPARTMENT OF TECHNOLOGY, MANAGEMENT AND BUDGET
STATE FACILITIES ADMINISTRATION, DESIGN AND CONSTRUCTION DIVISION
SOIL EROSION AND SEDIMENTATION CONTROL PROGRAM
P.O. Box 30026, Lansing, Michigan 48909

PROJECT TITLE: REMEDIAL INVESTIGATION AT LUST SITE
PROJECT LOCATION: 12161 DEXTER AVE., DETROIT, MICHIGAN
PROJECT FILE NUMBER: 761/24161.IND
INDEX NUMBER:

Prior to the start of earthwork, the Contractor must submit a Soil Erosion and Sedimentation Control (SESC) Implementation Plan to the Michigan Department of Technology, Management and Budget, Soil Erosion and Sedimentation Control Program. The intent of this plan is to ensure that the Contractor has reviewed and understands the SESC provisions within the plans and specifications. The following checklist will provide Contractors with assistance in creating the SESC Implementation Plan.

The SESC Implementation Plan must include:

1. A written plan or letter demonstrating:
 - The Contractor's means and methods for the implementation of SESC provisions included within the plans and specifications and compliance with the provisions of Part 91 of PA 451 of 1994, as amended.
 - The Contractor's plan for dust control.
 - The Contractor's plan for inspection and maintenance of temporary SESC's.
2. A map, location plan, drawing, or amended copy of the Project SESC or grading plan showing:
 - The locations of any stockpiles of soil associated with the Project
 - The temporary SESC controls associated with stockpiles of soil
 - The Contractor's suggested or proposed additions or relocations of any temporary or permanent SESC's associated with the Project plans and specifications (subject to approval by Engineer and DTMB)
 - Location of site entrances, exits and vehicle routes
 - Location of site superintendent's/project manager's site trailer or office (for SESC Inspector check-in)
3. A schedule for the installation and removal of temporary controls and the installation of permanent soil erosion and sedimentation controls in relation to the overall construction schedule.

Submit the above items to the above address.

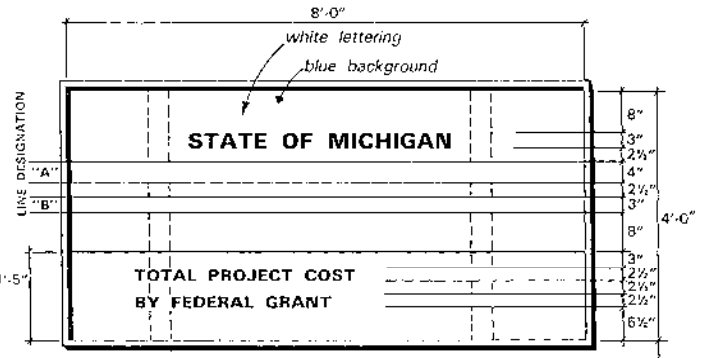
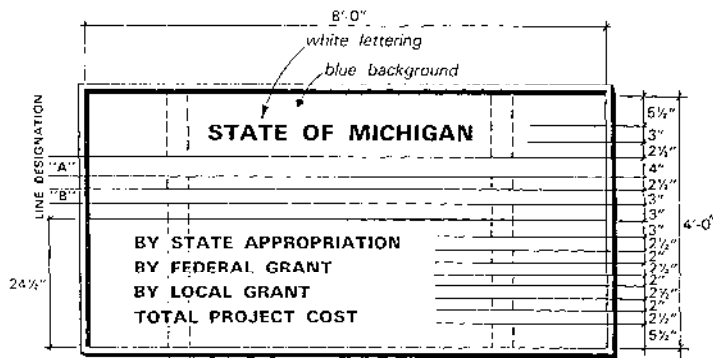
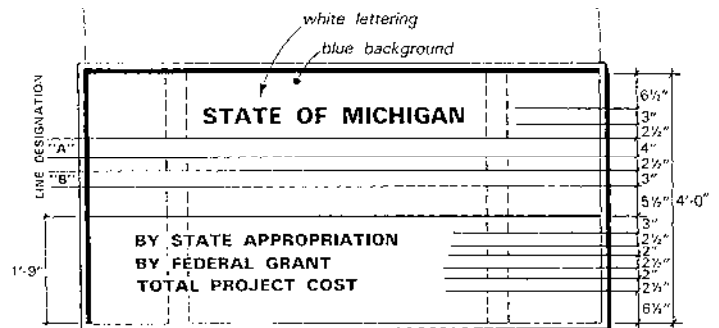
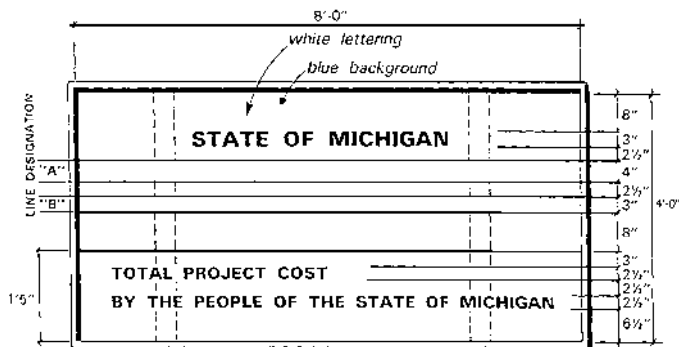
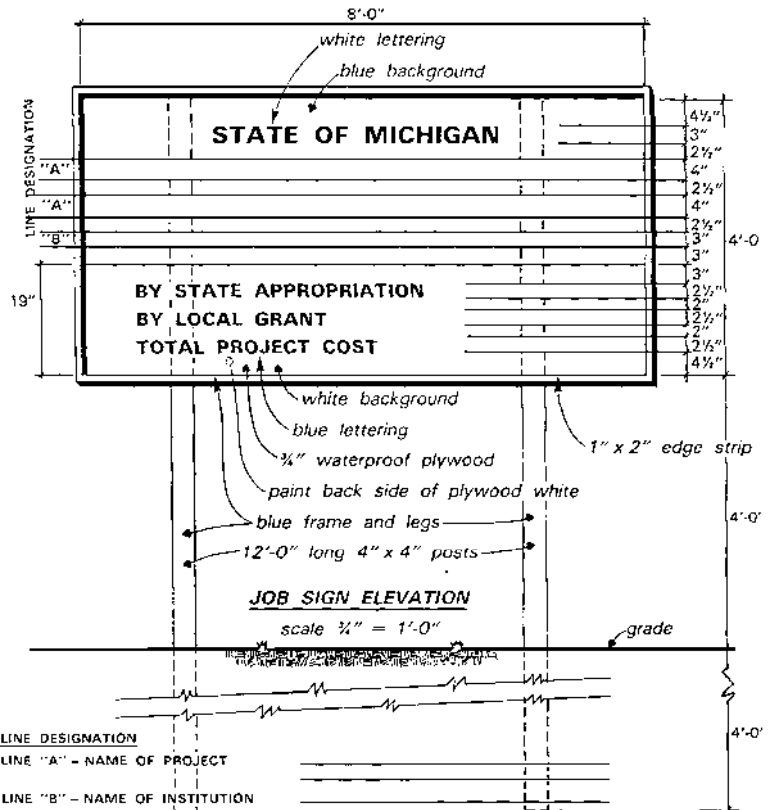
Upon approval of the Contractor's plan, an "Authorization to Proceed with Earth Change" will be issued by DTMB, Design and Construction Division.

APPENDIX IV

**PROJECT SIGN FOR PROJECTS COSTING IN EXCESS OF
\$500,000**

PROJECT SIGNS – PROJECTS IN EXCESS OF \$500,000

Five examples of project signs. Sign lettering corresponds with the funding arrangement of the project. Alternate signs may be considered; please contact the DTMB Project Director.



APPENDIX V

**PREVAILING WAGE SCHEDULES & WAGE RATE
SCHEDULES**



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR AND ECONOMIC OPPORTUNITY
WAGE AND HOUR DIVISION

SUSAN CORBIN
DIRECTOR

Prevailing Wage Rates for State Funded Projects Official Rate Schedule

ORS#:	ORS-000222
Date Issued:	06/12/2024
Contract Award By Date:	09/10/2024
Contracting Agency:	DTMB Design & Construction Division (CA-0007)
Contracting Agency Representative:	Don Klein (KleinD4@michigan.gov)
Project Number:	761/24161.IND
Project Name:	12161 Dexter - Remedial Investigation
Project Description:	Remedial Investigation at LUST Site

FOR ALL AWARDED CONTRACTS ONLY

- Every Contractor and Subcontractors shall keep Posted on the Construction Site, in a conspicuous place, a copy of all applicable prevailing wage rate schedules contained in a contract.
- The Prevailing rate schedule provides an hourly rate which includes wage and fringe benefit totals for designated classifications.
- Please refer to WHD-9917 & WHD 9918 for any additional information.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Boilermaker	Boilermaker	05/10/2024

Classification Description: Boilermaker

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$72.47	\$107.55	\$142.63
Apprentice: 1st Period	\$53.53	\$79.15	\$104.75
Apprentice: 2nd Period	\$55.14	\$81.56	\$107.97
Apprentice: 3rd Period	\$56.73	\$83.94	\$111.15
Apprentice: 4th Period	\$58.31	\$86.31	\$114.31
Apprentice: 5th Period	\$59.85	\$88.62	\$117.39
Apprentice: 6th Period	\$63.03	\$93.39	\$123.75
Apprentice: 7th Period	\$66.17	\$98.10	\$130.03
Apprentice: 8th Period	\$69.32	\$102.83	\$136.33

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$90.82
10th hour	\$90.82
Beyond 10 hours	\$90.82
Saturday	
First 8 hours	\$90.82
9th hour	\$90.82
10th hour	\$90.82
Beyond 10 hours	\$90.82
Sunday/Holiday	
	\$109.17

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 12 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$58.20	\$75.11	\$92.01	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$44.68	\$54.83	\$64.97	9th hour \$75.11
Apprentice: 1,500-2,249 hours	\$48.06	\$59.89	\$71.73	10th hour \$75.11
Apprentice: 2,250-2,999 hours	\$49.75	\$62.43	\$75.11	Beyond 10 hours \$75.11
Apprentice: 3,000-3,749 hours	\$51.44	\$64.97	\$78.49	Saturday
Apprentice: 3,750-4,499 hours	\$53.13	\$67.50	\$81.87	First 8 hours \$75.11
Apprentice: 4,500-5,249 hours	\$54.82	\$70.03	\$85.25	9th hour \$75.11
Apprentice: 5,250 hours	\$56.51	\$72.57	\$88.63	10th hour \$75.11
Apprentice: 750-1,499 hours	\$46.37	\$57.36	\$68.35	Beyond 10 hours \$75.11
				Sunday/Holiday \$92.01

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 14 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$62.63	\$81.01	\$99.39	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$47.93	\$58.96	\$69.99	9th hour \$81.01
Apprentice: 1,500-2,249 hours	\$51.60	\$64.47	\$77.33	10th hour \$81.01
Apprentice: 2,250-2,999 hours	\$53.44	\$67.23	\$81.01	Beyond 10 hours \$81.01
Apprentice: 3,000-3,749 hours	\$55.28	\$69.99	\$84.69	Saturday
Apprentice: 3,750-4,499 hours	\$57.12	\$72.75	\$88.37	First 8 hours \$81.01
Apprentice: 4,500-5,249 hours	\$58.95	\$75.49	\$92.03	9th hour \$81.01
Apprentice: 5,250 hours	\$60.79	\$78.25	\$95.71	10th hour \$81.01
Apprentice: 750-1,499 hours	\$49.76	\$61.71	\$73.65	Beyond 10 hours \$81.01
				Sunday/Holiday \$99.39

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 17 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$53.26	\$68.84	\$84.42	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$40.80	\$50.15	\$59.50	9th hour \$68.84
Apprentice: 1,500-2,249 hours	\$43.91	\$54.82	\$65.72	10th hour \$68.84
Apprentice: 2,250-2,999 hours	\$45.47	\$57.16	\$68.84	Beyond 10 hours \$68.84
Apprentice: 3,000-3,749 hours	\$47.03	\$59.50	\$71.96	Saturday
Apprentice: 3,750-4,499 hours	\$48.59	\$61.84	\$75.08	First 8 hours \$68.84
Apprentice: 4,500-5,249 hours	\$50.14	\$64.16	\$78.18	9th hour \$68.84
Apprentice: 5,250 hours	\$51.70	\$66.50	\$81.30	10th hour \$68.84
Apprentice: 750-1,499 hours	\$42.35	\$52.48	\$62.60	Beyond 10 hours \$68.84
				Sunday/Holiday \$84.42

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 3 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$55.29	\$71.04	\$86.79	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$42.69	\$52.14	\$61.59	9th hour \$71.04
Apprentice: 1,500-2,249 hours	\$45.84	\$56.87	\$67.89	10th hour \$71.04
Apprentice: 2,250-2,999 hours	\$47.41	\$59.22	\$71.03	Beyond 10 hours \$71.04
Apprentice: 3,000-3,749 hours	\$48.99	\$61.59	\$74.19	Saturday
Apprentice: 3,750-4,499 hours	\$50.57	\$63.96	\$77.35	First 8 hours \$71.04
Apprentice: 4,500-5,249 hours	\$52.14	\$66.31	\$80.49	9th hour \$71.04
Apprentice: 5,250 hours	\$53.71	\$68.67	\$83.63	10th hour \$71.04
Apprentice: 750-1,499 hours	\$44.27	\$54.51	\$64.75	Beyond 10 hours \$71.04
				Sunday/Holiday \$86.79

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 31 BS	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Artificial Masonry

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.52	\$67.86	\$82.19
Apprentice: 0-749 hours	\$42.05	\$50.65	\$59.25
Apprentice: 1,500-2,249 hours	\$44.92	\$54.95	\$64.99
Apprentice: 2,250-2,999 hours	\$46.35	\$57.10	\$67.85
Apprentice: 3,000-3,749 hours	\$47.79	\$59.26	\$70.73
Apprentice: 3,750-4,499	\$49.22	\$61.41	\$73.59
Apprentice: 4,500-5,249 hours	\$50.65	\$63.55	\$76.45
Apprentice: 5,250 hours	\$52.09	\$65.71	\$79.33
Apprentice: 750-1,499 hours	\$43.49	\$52.81	\$62.13

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.86
10th hour	\$67.86
Beyond 10 hours	\$67.86

Saturday

First 8 hours	\$67.86
9th hour	\$67.86
10th hour	\$67.86
Beyond 10 hours	\$67.86

Sunday/Holiday	\$82.19
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Four 10-hour days allowed? - No

Make Up Day Allowed? - Yes

MAKE UP DAY DUE TO INCLEMENT WEATHER

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 31 PCC	Bricklayer	05/10/2024

Classification Description: Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.52	\$67.86	\$82.19
Apprentice: 0-749 hours	\$43.49	\$52.81	\$62.13
Apprentice: 1,500- 2,249 hours	\$46.35	\$57.10	\$67.85
Apprentice: 2,250 -2,999 hours	\$47.79	\$59.26	\$70.73
Apprentice: 3,000-3,749 hours	\$24.37	\$36.56	\$48.74
Apprentice: 3,750-4,499 hours	\$50.65	\$63.55	\$76.45
Apprentice: 4,500 hours	\$53.52	\$67.85	\$82.19
Apprentice: 750-1,499 hours	\$44.92	\$54.95	\$64.99

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.86
10th hour	\$67.86
Beyond 10 hours	\$67.86

Saturday

First 8 hours	\$67.86
9th hour	\$67.86
10th hour	\$67.86
Beyond 10 hours	\$67.86

Sunday/Holiday

\$82.19

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 40 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$51.72	\$67.29	\$82.86	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$39.26	\$48.60	\$57.94	9th hour \$67.29
Apprentice: 1,500- 2,249 hours	\$42.38	\$53.28	\$64.18	10th hour \$67.29
Apprentice: 2,250-2,999 hours	\$43.94	\$55.62	\$67.30	Beyond 10 hours \$67.29
Apprentice: 3,000-3,749 hours	\$45.49	\$57.94	\$70.40	Saturday
Apprentice: 3,750-4,499 hours	\$47.05	\$60.28	\$73.52	First 8 hours \$67.29
Apprentice: 4,500-5,249 hours	\$48.61	\$62.62	\$76.64	9th hour \$67.29
Apprentice: 5,250 hours	\$50.16	\$64.95	\$79.74	10th hour \$67.29
Apprentice: 750-1,499 hours	\$40.82	\$50.94	\$61.06	Beyond 10 hours \$67.29
				Sunday/Holiday \$82.86

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Inclement weather make-up day Saturday at straight time for 8 hours, hours over 8 at time and half.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - 7 BSP	Bricklayer	05/10/2024

Classification Description: Brick Masonry, Stone Masonry, Pointing, Caulking and Cleaning

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$48.60	\$62.44	\$76.27	Over 8-hour day/40-hour week
Apprentice: 0-749 hours	\$37.53	\$45.83	\$54.13	9th hour \$62.44
Apprentice: 1,500-2,249 hours	\$40.30	\$49.99	\$59.67	10th hour \$62.44
Apprentice: 2,250-2,999 hours	\$41.68	\$52.05	\$62.43	Beyond 10 hours \$62.44
Apprentice: 3,000-3,749 hours	\$43.07	\$54.14	\$65.21	Saturday
Apprentice: 3,750-4,499 hours	\$44.45	\$56.21	\$67.97	First 8 hours \$62.44
Apprentice: 4,500-5,249 hours	\$45.83	\$58.28	\$70.73	9th hour \$62.44
Apprentice: 5,250 hours	\$47.22	\$60.37	\$73.51	10th hour \$62.44
Apprentice: 750-1,499 hours	\$38.92	\$47.91	\$56.91	Beyond 10 hours \$62.44
				Sunday/Holiday \$76.27

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - B	Bricklayer	05/10/2024

Classification Description: Bricklayer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$61.93	\$92.90	\$123.86
Apprentice: 1st Period	\$40.60	\$60.90	\$81.20
Apprentice: 2nd Period	\$42.47	\$63.71	\$84.94
Apprentice: 3rd Period	\$44.33	\$66.49	\$88.66
Apprentice: 4th Period	\$46.19	\$69.29	\$92.38
Apprentice: 5th Period	\$48.05	\$72.07	\$96.10
Apprentice: 6th Period	\$49.91	\$74.87	\$99.82
Apprentice: 7th Period	\$51.78	\$77.67	\$103.56
Apprentice: 8th Period	\$53.64	\$80.46	\$107.28

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$80.55
10th hour	\$80.55
Beyond 10 hours	\$80.55
Saturday	
First 8 hours	\$80.55
9th hour	\$80.55
10th hour	\$80.55
Beyond 10 hours	\$80.55
Sunday/Holiday	
	\$99.17

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Bricklayer - UP	Bricklayer	05/10/2024

Classification Description: Bricklayers, Stone Masons, Marble Masons, Mosaic Workers, Cement Masons, Plasterers, Pointer, Cleaner, Caulkers, Plant Masonry Workers, Refractory Specialists, Tuck Pointers, Tile Layers, Terrazzo Workers, and Marble, Tile & Terrazzo Finishers.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$51.92	\$66.19	\$80.46
Apprentice: 1st Period	\$41.93	\$51.20	\$60.48
Apprentice: 2nd Period	\$43.36	\$53.35	\$63.34
Apprentice: 3rd Period	\$44.78	\$55.48	\$66.18
Apprentice: 4th Period	\$46.21	\$57.62	\$69.04
Apprentice: 5th Period	\$47.64	\$59.77	\$71.90
Apprentice: 6th Period	\$49.07	\$61.92	\$74.76

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$66.19
10th hour	\$66.19
Beyond 10 hours	\$66.19
Saturday	
First 8 hours	\$66.19
9th hour	\$66.19
10th hour	\$66.19
Beyond 10 hours	\$66.19
Sunday/Holiday	
	\$80.46

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Carpenter - 687 C - Z1	Carpenter	05/10/2024

Classification Description: Journeyman-Diver Tender

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$65.99	\$83.94	\$101.89

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Saturday

First 8 hours	\$83.94
9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Sunday/Holiday	\$101.89
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Carpenter - Z1	Carpenter	05/10/2024

Classification Description: Carpenter 4-10s allowed Mon-Sat; double time due when over 12 hours worked per day

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$65.99	\$83.94	\$101.89
Apprentice: 1st year	\$40.39	\$50.27	\$60.14
Apprentice: 3rd 6 months	\$43.23	\$54.00	\$64.77
Apprentice: 4th 6 months	\$46.08	\$57.75	\$69.42
Apprentice: 5th 6 months	\$48.92	\$61.49	\$74.05
Apprentice: 6th 6 months	\$51.78	\$65.25	\$78.71
Apprentice: 7th 6 months	\$54.61	\$68.97	\$83.33
Apprentice: 8th 6 months	\$57.47	\$72.73	\$87.99

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Saturday

First 8 hours	\$83.94
9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Sunday/Holiday	\$101.89
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturdays

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Carpet & Resilient Floor Layer	Carpenter	05/10/2024

Classification Description: Carpet and Resilient Floor Layer, (does not include installation of prefabricated formica & parquet flooring which is to be paid carpenter rate)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$59.04	\$82.42	\$105.80
Apprentice: 1st 6 months	\$30.46	\$41.20	\$51.93
Apprentice: 2nd 6 months	\$34.04	\$45.73	\$57.44
Apprentice: 3rd 6 months	\$36.52	\$50.29	\$64.05
Apprentice: 4th 6 months	\$39.02	\$54.04	\$69.05
Apprentice: 5th 6 months	\$41.52	\$57.75	\$74.05
Apprentice: 6th 6 months	\$44.02	\$61.54	\$79.05
Apprentice: 7th 6 months	\$46.53	\$65.31	\$84.07
Apprentice: 8th 6 months	\$49.02	\$67.72	\$86.42

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$75.21
10th hour	\$75.21
Beyond 10 hours	\$75.21

Saturday

First 8 hours	\$75.21
9th hour	\$75.21
10th hour	\$75.21
Beyond 10 hours	\$75.21

Sunday/Holiday	\$91.37
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Piledriver - Z1	Carpenter	05/10/2024

Classification Description: Piledriver 4- 10s allowed Monday-Saturday; double time due when over 12 hours worked per day

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$65.99	\$83.94	\$101.89
Apprentice: 1st 6 months	\$40.39	\$50.27	\$60.14
Apprentice: 2nd 6 months	\$46.08	\$57.75	\$69.42
Apprentice: 3rd 6 months	\$51.78	\$65.25	\$78.71
Apprentice: 4th 6 months	\$57.47	\$72.73	\$87.99

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Saturday

First 8 hours	\$30.09
9th hour	\$83.94
10th hour	\$83.94
Beyond 10 hours	\$83.94

Sunday/Holiday	\$101.89
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.76	\$72.40	\$94.04
Apprentice: 1st Year	\$39.26	\$55.15	\$71.04
Apprentice: 2nd year	\$42.54	\$60.07	\$77.60
Apprentice: 3rd year	\$45.83	\$65.01	\$84.18

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.19
10th hour	\$67.19
Beyond 10 hours	\$83.62

Saturday

First 8 hours	\$67.19
9th hour	\$67.19
10th hour	\$67.19
Beyond 10 hours	\$67.19

Sunday/Holiday	\$83.62
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$58.90	\$84.12	\$109.33
Apprentice: 1st Period	\$39.26	\$54.86	\$70.45
Apprentice: 2nd Period	\$41.72	\$58.55	\$75.37
Apprentice: 3rd Period	\$44.22	\$62.30	\$80.37
Apprentice: 4th Period	\$46.73	\$66.06	\$85.39
Apprentice: 5th Period	\$49.19	\$69.75	\$90.31
Apprentice: 6th Period	\$51.71	\$73.53	\$95.35

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$76.45
10th hour	\$76.45
Beyond 10 hours	\$76.45
Saturday	
First 8 hours	\$76.45
9th hour	\$76.45
10th hour	\$76.45
Beyond 10 hours	\$76.45
Sunday/Holiday	
	\$93.99

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 12	Cement Mason	05/10/2024

Classification Description: Cement Mason, Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$52.58	\$68.02	\$83.45
Apprentice: 0-749 hours	\$41.78	\$51.81	\$61.85
Apprentice: 1,500-2,249 hours	\$44.86	\$56.43	\$68.01
Apprentice: 2,250-2,999 hours	\$46.41	\$58.76	\$71.11
Apprentice: 3,000-3,749 hours	\$47.95	\$61.07	\$74.19
Apprentice: 3,750-4,499 hours	\$49.49	\$63.38	\$77.27
Apprentice: 4,500 hours	\$52.58	\$68.01	\$83.45
Apprentice: 750-1,499 hours	\$43.32	\$54.13	\$64.93

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$68.02
10th hour	\$68.02
Beyond 10 hours	\$68.02

Saturday

First 8 hours	\$68.02
9th hour	\$68.02
10th hour	\$68.02
Beyond 10 hours	\$68.02

Sunday/Holiday

\$83.45

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 14	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$57.03	\$74.61	\$92.18
Apprentice: 0-749 hours	\$44.73	\$56.16	\$67.58
Apprentice: 1,500-2,249 hours	\$48.24	\$61.42	\$74.60
Apprentice: 2,250-2,999 hours	\$50.00	\$64.06	\$78.12
Apprentice: 3,000-3,749 hours	\$51.76	\$66.70	\$81.64
Apprentice: 3,750-4,499 hours	\$53.52	\$69.34	\$85.16
Apprentice: 4,500 hours	\$57.03	\$74.60	\$92.18
Apprentice: 750-11,499 hours	\$46.48	\$58.78	\$71.08

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$74.61
10th hour	\$74.61
Beyond 10 hours	\$74.61
Saturday	
First 8 hours	\$74.61
9th hour	\$74.61
10th hour	\$74.61
Beyond 10 hours	\$74.61
Sunday/Holiday	
	\$92.18

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 17	Cement Mason	05/10/2024

Classification Description: Cement Mason, Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.99	\$65.44	\$79.89
Apprentice: 0-749 hours	\$40.87	\$50.26	\$59.65
Apprentice: 1,500-2,249 hours	\$43.77	\$54.61	\$65.45
Apprentice: 2,250-2,999 hours	\$45.21	\$56.77	\$68.33
Apprentice: 3,000-3,749 hours	\$46.65	\$58.93	\$71.21
Apprentice: 3,750-4,499 hours	\$48.10	\$61.11	\$74.11
Apprentice: 4,500 hours	\$50.99	\$65.44	\$79.89
Apprentice: 750-1,499 hours	\$42.32	\$52.43	\$62.55

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$65.44
10th hour	\$65.44
Beyond 10 hours	\$65.44
Saturday	
First 8 hours	\$65.44
9th hour	\$65.44
10th hour	\$65.44
Beyond 10 hours	\$65.44
Sunday/Holiday	
	\$79.89

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 2 S	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$55.50	\$79.02	\$102.53
Apprentice: 1st Period	\$36.99	\$51.45	\$65.91
Apprentice: 2nd Period	\$38.74	\$54.07	\$69.41
Apprentice: 3rd Period	\$41.54	\$58.30	\$75.06
Apprentice: 4th Period	\$43.82	\$61.70	\$79.57
Apprentice: 5th Period	\$46.08	\$65.08	\$84.09
Apprentice: 6th Period	\$48.30	\$68.42	\$88.53

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$72.97
10th hour	\$72.97
Beyond 10 hours	\$72.97
Saturday	
First 8 hours	\$72.97
9th hour	\$72.97
10th hour	\$72.97
Beyond 10 hours	\$72.97
Sunday/Holiday	
	\$90.44

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 3	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$54.04	\$68.37	\$82.81
Apprentice: 0-749 hours	\$43.93	\$53.21	\$62.59
Apprentice: 1,500-2,249 hours	\$46.82	\$57.54	\$68.37
Apprentice: 2,250-2,999 hours	\$48.26	\$59.70	\$71.25
Apprentice: 3,000-3,749 hours	\$49.71	\$61.87	\$74.15
Apprentice: 3,750-4,499 hours	\$51.15	\$64.03	\$77.03
Apprentice: 4,500 hours	\$52.60	\$66.21	\$79.93
Apprentice: 750-1,499 hours	\$45.38	\$55.38	\$65.49

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$68.48
10th hour	\$68.48
Beyond 10 hours	\$68.48
Saturday	
First 8 hours	\$68.48
9th hour	\$68.48
10th hour	\$68.48
Beyond 10 hours	\$68.48
Sunday/Holiday	
	\$82.92

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 31	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.16	\$60.76	\$74.36
Apprentice: 0-749 hours	\$37.64	\$46.48	\$55.32
Apprentice: 1,500-2,249 hours	\$40.36	\$50.56	\$60.76
Apprentice: 2,250-2,999 hours	\$41.72	\$52.60	\$63.48
Apprentice: 3,000-3,749 hours	\$43.08	\$54.64	\$66.20
Apprentice: 3,750-4,499 hours	\$44.44	\$56.68	\$68.92
Apprentice: 4,500 hours	\$47.16	\$60.76	\$74.36
Apprentice: 750-1,499 hours	\$39.00	\$48.52	\$58.04

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$60.76
10th hour	\$60.76
Beyond 10 hours	\$60.76

Saturday

First 8 hours	\$60.76
9th hour	\$60.76
10th hour	\$60.76
Beyond 10 hours	\$60.76

Sunday/Holiday

\$74.36

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 40	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.44	\$61.03	\$74.61
Apprentice: 0-749 hours	\$37.93	\$46.76	\$55.59
Apprentice: 1,500-2,249 hours	\$40.65	\$50.84	\$61.03
Apprentice: 2,250-2,999 hours	\$42.01	\$52.88	\$63.75
Apprentice: 3,000-3,749 hours	\$43.36	\$54.91	\$66.45
Apprentice: 3,750-4,499 hours	\$44.72	\$56.95	\$69.17
Apprentice: 4,500 hours	\$47.44	\$61.03	\$74.61
Apprentice: 750-1,499 hours	\$39.29	\$48.80	\$58.31

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$61.03
10th hour	\$61.03
Beyond 10 hours	\$61.03

Saturday

First 8 hours	\$61.03
9th hour	\$61.03
10th hour	\$61.03
Beyond 10 hours	\$61.03

Sunday/Holiday

\$74.61

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - 7	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.53	\$56.66	\$68.79
Apprentice: 0-749 hours	\$36.04	\$43.93	\$51.81
Apprentice: 1,500-2,249 hours	\$38.47	\$47.57	\$56.67
Apprentice: 2,250-2,999 hours	\$39.68	\$49.39	\$59.09
Apprentice: 3,000-3,749 hours	\$40.89	\$51.20	\$61.51
Apprentice: 3,750-4,499 hours	\$42.10	\$53.01	\$63.93
Apprentice: 4,500 hours	\$44.53	\$56.66	\$68.79
Apprentice: 750-1,499 hours	\$37.25	\$45.74	\$54.23

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.66
10th hour	\$56.66
Beyond 10 hours	\$56.66

Saturday

First 8 hours	\$56.66
9th hour	\$56.66
10th hour	\$56.66
Beyond 10 hours	\$56.66

Sunday/Holiday

\$68.79

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - B	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.49	\$62.61	\$77.73
Apprentice: 1st Year	\$36.91	\$46.74	\$56.57
Apprentice: 2nd Year	\$39.93	\$51.27	\$62.61
Apprentice: 3rd Year	\$42.95	\$55.80	\$68.65

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$62.61
10th hour	\$62.61
Beyond 10 hours	\$62.61

Saturday

First 8 hours	\$62.61
9th hour	\$62.61
10th hour	\$62.61
Beyond 10 hours	\$62.61

Sunday/Holiday	\$77.73
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - BR	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$43.45	\$56.64	\$69.82
Apprentice: 1st Year	\$34.22	\$42.79	\$51.36
Apprentice: 2nd Year	\$36.86	\$46.75	\$56.64
Apprentice: 3rd Year	\$39.49	\$50.70	\$61.90

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.64
10th hour	\$56.64
Beyond 10 hours	\$56.64

Saturday

First 8 hours	\$56.64
9th hour	\$56.64
10th hour	\$56.64
Beyond 10 hours	\$56.64

Sunday/Holiday	\$69.82
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - G	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$48.21	\$63.42	\$78.63
Apprentice: 1st year	\$37.56	\$47.45	\$57.33
Apprentice: 2nd Year	\$40.61	\$52.02	\$63.43
Apprentice: 3rd Year	\$43.65	\$56.58	\$69.51

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$63.42
10th hour	\$63.42
Beyond 10 hours	\$63.42

Saturday

First 8 hours	\$63.42
9th hour	\$63.42
10th hour	\$63.42
Beyond 10 hours	\$63.42

Sunday/Holiday	\$78.63
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - K	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.49	\$57.87	\$71.25
Apprentice: 1st Year	\$34.95	\$43.64	\$52.34
Apprentice: 2nd Year	\$37.63	\$47.66	\$57.70
Apprentice: 3rd Year	\$40.31	\$51.68	\$63.06

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$57.87
10th hour	\$57.87
Beyond 10 hours	\$57.87

Saturday

First 8 hours	\$57.87
9th hour	\$57.87
10th hour	\$57.87
Beyond 10 hours	\$57.87

Sunday/Holiday	\$71.25
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - L	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.09	\$61.77	\$76.45
Apprentice: 1st Year	\$36.81	\$46.35	\$55.89
Apprentice: 2nd Year	\$39.75	\$50.76	\$61.77
Apprentice: 3rd Year	\$42.69	\$55.17	\$67.65

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$61.77
10th hour	\$61.77
Beyond 10 hours	\$61.77

Saturday

First 8 hours	\$61.77
9th hour	\$61.77
10th hour	\$61.77
Beyond 10 hours	\$61.77

Sunday/Holiday	\$76.45
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - M	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$42.88	\$55.60	\$68.32
Apprentice: 1st Year	\$33.98	\$42.25	\$50.52
Apprentice: 2nd Year	\$36.52	\$46.06	\$55.60
Apprentice: 3rd Year	\$39.06	\$49.87	\$60.68

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$55.60
10th hour	\$55.60
Beyond 10 hours	\$55.60

Saturday

First 8 hours	\$55.60
9th hour	\$55.60
10th hour	\$55.60
Beyond 10 hours	\$55.60

Sunday/Holiday	\$68.32
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - s	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$48.12	\$67.83	\$87.53
Apprentice: 1st 6 months	\$31.72	\$43.23	\$54.73
Apprentice: 2nd 6 months	\$33.60	\$46.05	\$58.49
Apprentice: 3rd 6 months	\$35.49	\$48.88	\$62.27
Apprentice: 4th 6 months	\$37.37	\$51.70	\$66.03
Apprentice: 5th 6 months	\$39.25	\$54.52	\$69.79
Apprentice: 6th 6 months	\$41.14	\$57.36	\$73.57

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$63.24
10th hour	\$63.24
Beyond 10 hours	\$78.35
Saturday	
First 8 hours	\$63.24
9th hour	\$63.24
10th hour	\$63.24
Beyond 10 hours	\$63.24
Sunday/Holiday	
	\$78.35

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - SJ	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.08	\$61.76	\$76.43
Apprentice: 1st Year	\$36.81	\$46.35	\$55.89
Apprentice: 2nd Year	\$39.74	\$50.75	\$61.75
Apprentice: 3rd Year	\$42.68	\$55.15	\$67.63

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$61.76
10th hour	\$61.76
Beyond 10 hours	\$61.76

Saturday

First 8 hours	\$61.76
9th hour	\$61.76
10th hour	\$61.76
Beyond 10 hours	\$61.76

Sunday/Holiday	\$76.43
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - TC	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.72	\$58.51	\$72.30
Apprentice: 1st Year	\$35.07	\$44.04	\$53.00
Apprentice: 2nd Year	\$37.82	\$48.16	\$58.50
Apprentice: 2rd Year	\$40.58	\$52.30	\$64.02

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$58.51
10th hour	\$58.51
Beyond 10 hours	\$58.51
Saturday	
First 8 hours	\$58.51
9th hour	\$58.51
10th hour	\$58.51
Beyond 10 hours	\$58.51
Sunday/Holiday	
	\$72.30

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - UP	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$38.67	\$50.71	\$62.74
Apprentice: 1st Year	\$30.25	\$38.08	\$45.90
Apprentice: 2nd Year	\$32.65	\$41.68	\$50.70
Apprentice: 3rd Year	\$35.06	\$45.29	\$55.52

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$50.71
10th hour	\$50.71
Beyond 10 hours	\$50.71

Saturday

First 8 hours	\$50.71
9th hour	\$50.71
10th hour	\$50.71
Beyond 10 hours	\$50.71

Sunday/Holiday	\$62.74
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Cement Mason - W	Cement Mason	05/10/2024

Classification Description: Cement Mason

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$52.82	\$74.60	\$96.37
Apprentice: 1st 6 Months	\$34.23	\$46.71	\$59.19
Apprentice: 2nd 6 Months	\$36.30	\$49.82	\$63.33
Apprentice: 3rd 6 Months	\$38.39	\$52.95	\$67.51
Apprentice: 4th 6 Months	\$40.47	\$56.07	\$71.67
Apprentice: 5th 6 Months	\$42.54	\$59.18	\$75.81
Apprentice: 6th 6 Months	\$44.63	\$62.31	\$79.99

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$67.94
10th hour	\$67.94
Beyond 10 hours	\$83.05
Saturday	
First 8 hours	\$67.94
9th hour	\$67.94
10th hour	\$67.94
Beyond 10 hours	\$67.94
Sunday/Holiday	
	\$83.05

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class A Laborer - Zone A	Class A Laborer	05/10/2024

Classification Description: Construction Laborer, Demolition Laborer, Mason Tender, Carpenter Tender, Drywall Handler, Concrete Laborer, Cement Finisher tender, concrete chute and concrete Bucket Handler, Concrete Laborer, Cement Finisher Tender

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.10	\$64.48	\$78.85
Apprentice: 0-1,000 Hours	\$42.91	\$53.69	\$64.47
Apprentice: 1,001-2,000 Hours	\$44.35	\$55.85	\$67.35
Apprentice: 2,001-3,000 Hours	\$45.79	\$58.01	\$70.23
Apprentice: 3,001-4,000 Hours	\$48.66	\$62.31	\$75.97

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$64.48
10th hour	\$64.48
Beyond 10 hours	\$64.48

Saturday

First 8 hours	\$64.48
9th hour	\$64.48
10th hour	\$64.48
Beyond 10 hours	\$64.48

Sunday/Holiday	\$78.85
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Communication Technician	Communication Technician	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Saturday	
First 8 hours	\$98.24
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Sunday/Holiday	
	\$128.58

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Diver - D - Z1	Diver	05/10/2024

Classification Description: Diver 4-10s allowed M-Sat; double time due when over 12 hours worked per day

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.40	\$98.48	\$120.55
Apprentice: 1st/2nd 6 mo	\$40.39	\$50.27	\$60.14
Apprentice: 3rd 60 mo	\$43.23	\$54.00	\$64.77
Apprentice: 4th 6 mo	\$46.08	\$57.75	\$69.42
Apprentice: 5th 6 mo	\$25.13	\$46.35	\$61.80

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$98.48
10th hour	\$98.48
Beyond 10 hours	\$98.48

Saturday

First 8 hours	\$98.48
9th hour	\$98.48
10th hour	\$98.48
Beyond 10 hours	\$98.48

Sunday/Holiday	\$120.55
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Drywall - DF	Drywall	05/10/2024

Classification Description: Drywall Finishers

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$51.86	\$67.66	\$83.46
Apprentice: 1st period	\$39.22	\$48.70	\$58.18
Apprentice: 2nd period	\$40.80	\$51.07	\$61.34
Apprentice: 3rd period	\$43.96	\$55.81	\$67.66
Apprentice: 4th period	\$48.70	\$62.92	\$77.14

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.66
10th hour	\$67.66
Beyond 10 hours	\$67.66

Saturday

First 8 hours	\$67.66
9th hour	\$67.66
10th hour	\$67.66
Beyond 10 hours	\$67.66

Sunday/Holiday	\$83.46
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Drywall Taper	Drywall	05/10/2024

Classification Description: Drywall Taper
Four 10s allowed Monday-Thursday

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$45.91	\$59.74	\$73.56
Apprentice: 4th 6 months	\$41.76	\$53.51	\$65.26
Apprentice: First 3 months	\$32.08	\$38.99	\$45.90
Apprentice: Second 3 months	\$34.85	\$43.14	\$51.44
Apprentice: Second 6 months	\$37.62	\$47.30	\$56.98
Apprentice: Third 6 months	\$40.38	\$51.44	\$62.50

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$59.74
10th hour	\$59.74
Beyond 10 hours	\$73.56

Saturday

First 8 hours	\$59.74
9th hour	\$73.56
10th hour	\$73.56
Beyond 10 hours	\$73.56

Sunday/Holiday	\$73.56
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Friday make-up day for bad weather or holidays

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Electrician - IW	Electrician	05/10/2024

Classification Description: Inside Wireman

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$71.28	\$98.14	\$121.40
Apprentice: 1st Period	\$45.69	\$59.77	\$70.23
Apprentice: 2nd Period	\$48.01	\$63.24	\$74.87
Apprentice: 3rd Period	\$50.34	\$66.74	\$79.53
Apprentice: 4th Period	\$52.66	\$70.22	\$84.17
Apprentice: 5th Period	\$54.99	\$73.71	\$88.83
Apprentice: 6th Period	\$59.65	\$80.70	\$98.15

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$93.86
10th hour	\$93.86
Beyond 10 hours	\$93.86
Saturday	
First 8 hours	\$93.86
9th hour	\$93.86
10th hour	\$93.86
Beyond 10 hours	\$93.86
Sunday/Holiday	
	\$116.45

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Electrician - SC	Electrician	05/10/2024

Classification Description: Sound and Communication Installer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.79	\$60.31	\$75.82
Apprentice: Period 1	\$29.28	\$37.04	\$44.79
Apprentice: Period 2	\$30.84	\$39.99	\$48.72
Apprentice: Period 3	\$32.38	\$41.68	\$50.99
Apprentice: Period 4	\$33.94	\$44.03	\$54.11
Apprentice: Period 5	\$35.48	\$46.34	\$57.19
Apprentice: Period 6	\$37.04	\$48.67	\$60.31

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$59.85
10th hour	\$59.85
Beyond 10 hours	\$59.85
Saturday	
First 8 hours	\$59.85
9th hour	\$59.85
10th hour	\$59.85
Beyond 10 hours	\$59.85
Sunday/Holiday	
	\$74.91

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Electrician - SCT	Electrician	05/10/2024

Classification Description: Sound and Communication Technician I

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$52.52	\$71.89	\$91.27

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$71.33
10th hour	\$71.33
Beyond 10 hours	\$71.33

Saturday

First 8 hours	\$71.33
9th hour	\$71.33
10th hour	\$71.33
Beyond 10 hours	\$71.33

Sunday/Holiday	\$90.14
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Elevator Constructor Mechanic	Elevator Constructor	05/10/2024

Classification Description: Elevator Constructor Mechanic

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$96.27	\$124.00	\$151.73
Apprentice: 1st Year Apprentice	\$70.42	\$85.67	\$100.92
Apprentice: 2nd Year Apprentice	\$75.97	\$94.00	\$112.02
Apprentice: 3rd Year Apprentice	\$78.74	\$98.15	\$117.56
Apprentice: 4th Year Apprentice	\$84.29	\$106.48	\$128.66

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$151.73
10th hour	\$151.73
Beyond 10 hours	\$151.73

Saturday

First 8 hours	\$151.73
9th hour	\$151.73
10th hour	\$151.73
Beyond 10 hours	\$151.73

Sunday/Holiday

	\$151.73
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Fiber Optic Splicer	Fiber Optic Splicer	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24

Saturday

First 8 hours	\$98.24
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24

Sunday/Holiday	\$128.58
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Saturday

First 8 hours	\$90.71
9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Sunday/Holiday	\$113.52
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Saturday

First 8 hours	\$90.71
9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Sunday/Holiday	\$113.52
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Saturday

First 8 hours	\$90.71
9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Sunday/Holiday	\$113.52
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Saturday

First 8 hours	\$90.71
9th hour	\$90.71
10th hour	\$90.71
Beyond 10 hours	\$90.71

Sunday/Holiday	\$113.52
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$75.47	\$109.62	\$143.74

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$109.61
10th hour	\$109.61
Beyond 10 hours	\$109.61

Saturday

First 8 hours	\$109.61
9th hour	\$109.61
10th hour	\$109.61
Beyond 10 hours	\$109.61

Sunday/Holiday	\$143.74
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$75.47	\$109.61	\$143.74

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$101.14
10th hour	\$101.14
Beyond 10 hours	\$101.14

Saturday

First 8 hours	\$101.14
9th hour	\$101.14
10th hour	\$101.14
Beyond 10 hours	\$101.14

Sunday/Holiday	\$126.80
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Foreman	Foreman	05/10/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.98	\$111.87	\$146.76

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$103.22
10th hour	\$103.22
Beyond 10 hours	\$103.22

Saturday

First 8 hours	\$103.22
9th hour	\$103.22
10th hour	\$103.22
Beyond 10 hours	\$103.22

Sunday/Holiday	\$129.45
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Glazier	Glazier	05/10/2024

Classification Description: Glazier

If 4 10 hour day workweek is scheduled, four 10s must be consecutive, M-F.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.55	\$70.10	\$86.65
Apprentice: 1st 6 months	\$37.00	\$45.27	\$53.55
Apprentice: 2nd 6 months	\$37.75	\$46.40	\$55.05
Apprentice: 3rd 6 months	\$41.97	\$52.73	\$63.49
Apprentice: 4th 6 months	\$43.62	\$55.21	\$66.79
Apprentice: 5th 6 months	\$45.27	\$57.68	\$70.09
Apprentice: 6th 6 months	\$46.93	\$60.17	\$73.41
Apprentice: 7th 6 months	\$48.59	\$62.66	\$76.73
Apprentice: 8th 6 months	\$51.89	\$67.61	\$83.33

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$70.10
10th hour	\$70.10
Beyond 10 hours	\$70.10

Saturday

First 8 hours	\$70.10
9th hour	\$70.10
10th hour	\$70.10
Beyond 10 hours	\$70.10

Sunday/Holiday

\$86.65

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Heat & Frost Insulator - Spray Insulation	Heat and Frost Insulator	05/10/2024

Classification Description: Spray Insulation

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$25.29	\$36.51	\$47.73

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$36.51
10th hour	\$36.51
Beyond 10 hours	\$36.51
Saturday	
First 8 hours	\$36.51
9th hour	\$36.51
10th hour	\$36.51
Beyond 10 hours	\$36.51
Sunday/Holiday	
	\$36.51

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Heat & Frost Insulator Asbestos	Heat and Frost Insulator	05/10/2024

Classification Description: Heat and Frost Insulators and Asbestos Workers 4-10s must be worked a minimum of 2 weeks consecutively, Monday thru Thursday. Hours worked in excess of 10 will be paid at double time. Hours worked on the fifth day, Monday thru Friday @ time and half

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$62.65	\$78.41	\$94.16
Apprentice: 1st Year	\$46.90	\$54.78	\$62.66
Apprentice: 2nd Year	\$50.05	\$59.50	\$68.96
Apprentice: 3rd Year	\$53.20	\$64.23	\$75.26
Apprentice: 4th Year	\$56.35	\$68.96	\$81.56

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$78.41
10th hour	\$78.41
Beyond 10 hours	\$78.41
Saturday	
First 8 hours	\$78.41
9th hour	\$78.41
10th hour	\$78.41
Beyond 10 hours	\$78.41
Sunday/Holiday	
	\$94.16

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Ironworker - RF	Ironworker	05/10/2024

Classification Description: Reinforced Iron Work

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$69.51	\$85.85	\$102.19
Apprentice: Level 1	\$52.63	\$64.23	\$75.83
Apprentice: Level 2	\$54.68	\$66.77	\$78.86
Apprentice: Level 3	\$56.56	\$68.98	\$81.40
Apprentice: Level 4	\$59.41	\$72.65	\$85.88
Apprentice: Level 5	\$62.27	\$76.32	\$90.37
Apprentice: Level 6	\$66.76	\$82.48	\$98.19
Apprentice: Level 7	\$66.76	\$82.48	\$98.19
Apprentice: Level 8	\$66.76	\$82.48	\$98.19

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$85.85
10th hour	\$85.85
Beyond 10 hours	\$102.19
Saturday	
First 8 hours	\$85.85
9th hour	\$85.85
10th hour	\$102.19
Beyond 10 hours	\$102.19
Sunday/Holiday	
	\$102.19

Four 10-hour days allowed? - No

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Ironworker - RIG	Ironworker	05/10/2024

Classification Description: Rigging Work

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.08	\$92.93	\$109.78
Apprentice: Level 1	\$51.75	\$62.38	\$73.01
Apprentice: Level 2	\$52.56	\$63.54	\$74.52
Apprentice: Level 3	\$54.83	\$66.33	\$77.83
Apprentice: Level 4	\$57.51	\$69.71	\$81.91
Apprentice: Level 5	\$60.60	\$73.67	\$86.74
Apprentice: Level 6	\$63.27	\$77.04	\$90.80
Apprentice: Level 7	\$66.35	\$80.99	\$95.62
Apprentice: Level 8	\$69.43	\$84.94	\$100.45

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$92.93
10th hour	\$92.93
Beyond 10 hours	\$109.78
Saturday	
First 8 hours	\$92.93
9th hour	\$92.93
10th hour	\$92.93
Beyond 10 hours	\$109.78
Sunday/Holiday	
	\$109.78

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Ironworker - STR	Ironworker	05/10/2024

Classification Description: Structural, ornamental, welder and pre-cast If bad weather, Friday may be a make up day. If holiday celebrated on a Monday, 4 10s may be worked Tuesday thru Friday.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.21	\$102.75	\$129.29
Apprentice: Level 1	\$51.25	\$61.88	\$72.51
Apprentice: Level 2	\$52.56	\$63.54	\$74.52
Apprentice: Level 3	\$54.83	\$66.33	\$77.83
Apprentice: Level 4	\$57.51	\$70.34	\$83.17
Apprentice: Level 5	\$60.60	\$73.67	\$86.74
Apprentice: Level 6	\$63.27	\$77.04	\$90.80
Apprentice: Level 7	\$66.35	\$80.98	\$95.62
Apprentice: Level 8	\$69.43	\$84.94	\$100.45

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$93.64
10th hour	\$93.64
Beyond 10 hours	\$111.06
Saturday	
First 8 hours	\$93.64
9th hour	\$93.64
10th hour	\$93.64
Beyond 10 hours	\$111.06
Sunday/Holiday	
	\$111.06

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman Signal Technician	Journeyman Signal Technician	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58
Apprentice: Apprentice 1st 6 months	\$43.61	\$61.82	\$80.02
Apprentice: Apprentice 2nd 6 months	\$46.65	\$66.38	\$86.10
Apprentice: Apprentice 3rd 6 months	\$49.68	\$70.92	\$92.16
Apprentice: Apprentice 4th 6 months	\$52.71	\$75.47	\$98.22
Apprentice: Apprentice 5th 6 months	\$55.75	\$80.03	\$104.30
Apprentice: Apprentice 6th 6months	\$61.82	\$89.13	\$116.44

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Saturday	
First 8 hours	\$98.24
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Sunday/Holiday	
	\$128.58

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman Specialist	Journeyman Specialist	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.98	\$111.88	\$146.76

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$111.87
10th hour	\$111.87
Beyond 10 hours	\$111.87

Saturday

First 8 hours	\$111.87
9th hour	\$111.87
10th hour	\$111.87
Beyond 10 hours	\$111.87

Sunday/Holiday	\$146.76
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Labor Crew Foreman	Labor Crew Foreman	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$61.86	\$89.19	\$116.52

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$89.19
10th hour	\$89.19
Beyond 10 hours	\$89.19

Saturday

First 8 hours	\$89.19
9th hour	\$89.19
10th hour	\$89.19
Beyond 10 hours	\$89.19

Sunday/Holiday	\$116.52
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Asbestos & Lead Abatement Laborer	Laborer	05/10/2024

Classification Description: Asbestos & Lead Abatement Laborer

4 ten hour days @ straight time allowed Monday-Saturday, must be consecutive calendar days

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.60	\$65.37	\$80.13
Apprentice: Trainee 600 hours +1 year	\$34.07	\$18.89	\$20.54

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$65.37
10th hour	\$65.37
Beyond 10 hours	\$65.37

Saturday

First 8 hours	\$65.37
9th hour	\$65.37
10th hour	\$65.37
Beyond 10 hours	\$65.37

Sunday/Holiday	\$80.13
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-B	Laborer	05/10/2024

Classification Description: Signal man (on sewer & caisson work); air,electric or gasoline tool operator (including concrete vibrator operator,acetylene torch & air hammer operator); scaffold builder, caisson worker

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.40	\$64.93	\$79.45

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$64.93
10th hour	\$64.93
Beyond 10 hours	\$64.93

Saturday

First 8 hours	\$64.93
9th hour	\$64.93
10th hour	\$64.93
Beyond 10 hours	\$64.93

Sunday/Holiday	\$79.45
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-C	Laborer	05/10/2024

Classification Description: Lansing Burner, Blaster & Powder Man; Air, electric Gasoline Tool Operator (Blast furnace work or battery work)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.96	\$65.77	\$80.57

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$65.77
10th hour	\$65.77
Beyond 10 hours	\$65.77

Saturday

First 8 hours	\$65.77
9th hour	\$65.77
10th hour	\$65.77
Beyond 10 hours	\$65.77

Sunday/Holiday	\$80.57
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday,

If conditions beyond the employer/employee's control prevent one or more hours of working during Mon-Fri, the employer may choose to work up to 10 hour straight time weekdays.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-D	Laborer	05/10/2024

Classification Description: Furnance battery heater tender, burning bar & oxy-acetylene gun

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$50.67	\$65.33	\$79.99	Over 8-hour day/40-hour week
				9th hour \$65.33
				10th hour \$65.33
				Beyond 10 hours \$65.33
				Saturday
				First 8 hours \$65.33
				9th hour \$65.33
				10th hour \$65.33
				Beyond 10 hours \$65.33
				Sunday/Holiday \$79.99

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-E	Laborer	05/10/2024

Classification Description: Cleaner/sweeper laborer, furniture laborer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.65	\$56.30	\$67.95

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.30
10th hour	\$56.30
Beyond 10 hours	\$56.30

Saturday

First 8 hours	\$56.30
9th hour	\$56.30
10th hour	\$56.30
Beyond 10 hours	\$56.30

Sunday/Holiday	\$67.95
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-F	Laborer	05/10/2024

Classification Description: Expediter man, topman and/or bottom man (blast furnace work or battery work)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$51.51	\$66.69	\$81.87

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$66.59
10th hour	\$66.59
Beyond 10 hours	\$66.59

Saturday

First 8 hours	\$66.59
9th hour	\$66.59
10th hour	\$66.59
Beyond 10 hours	\$66.59

Sunday/Holiday	\$81.67
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - A-W	Laborer	05/10/2024

Classification Description: Laborer -Wall and ceiling material handler, plasterer tender, mortar mixer and plastering machine operator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$46.90	\$59.78	\$72.65
Apprentice: 0-1,000 Hours	\$40.46	\$55.20	\$69.93
Apprentice: 1,001-2,000 Hours	\$41.75	\$57.13	\$72.50
Apprentice: 2,001-3,000 Hours	\$43.04	\$59.06	\$75.08
Apprentice: 3,001-4,000 Hours	\$45.61	\$62.92	\$80.23

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$59.78
10th hour	\$59.78
Beyond 10 hours	\$59.78

Saturday

First 8 hours	\$59.78
9th hour	\$59.78
10th hour	\$59.78
Beyond 10 hours	\$59.78

Sunday/Holiday	\$72.65
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Saturday make up day due to conditions beyond control or holiday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 1 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 1: asphalt shoveler or loader, yard man, fence erector tender, dumper, joint filling, form setting, form stripper, pavement reinforcing, waterproofing, seal coating, bridge painting, sandblasting, pressure grouting, RC equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.44	\$61.38	\$75.31
Apprentice: 0-1,000 hours	\$40.47	\$50.92	\$61.37
Apprentice: 1,001-2,000 hours	\$41.87	\$53.02	\$64.17
Apprentice: 2,001-3,000	\$43.26	\$55.11	\$66.95
Apprentice: 3,001-4,000 hours	\$46.05	\$59.29	\$72.53

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$61.38
10th hour	\$61.38
Beyond 10 hours	\$61.38
Saturday	
First 8 hours	\$61.38
9th hour	\$61.38
10th hour	\$61.38
Beyond 10 hours	\$61.38
Sunday/Holiday	
	\$75.31

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 2 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 2: mixer operator, air or electric tool operator, spreader, boxman, concreter paddler, power chain saw operator, paving patch truck dumper, tunnel mucker, concrete saw operator, dry pack machine and roto-mill grounds person

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.57	\$61.57	\$75.57
Apprentice: 0-1,000 hours	\$40.57	\$51.07	\$61.57
Apprentice: 1,001-2,000 hours	\$41.97	\$53.17	\$64.37
Apprentice: 2,001-3,000 hours	\$43.37	\$55.27	\$67.17
Apprentice: 3,001-4,000 hours	\$46.17	\$59.47	\$72.77

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$61.57
10th hour	\$61.57
Beyond 10 hours	\$61.57
Saturday	
First 8 hours	\$61.57
9th hour	\$61.57
10th hour	\$61.57
Beyond 10 hours	\$61.57
Sunday/Holiday	
	\$75.57

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 3 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 3: tunnel miner, finish tenders, guard rail builder, median barrier installer, earth retention barrier and wall installer, fence erector, bottom man, powder man, wagon drill and air track operator, curb and side rail setter

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.75	\$61.84	\$75.93
Apprentice: 0-1,000 hours	\$40.71	\$51.28	\$61.85
Apprentice: 1,001-2,000 hours	\$42.11	\$53.38	\$64.65
Apprentice: 2,001-3,000 hours	\$43.52	\$55.49	\$67.47
Apprentice: 3,001-4,000 hours	\$46.34	\$59.73	\$73.11

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$61.84
10th hour	\$61.84
Beyond 10 hours	\$61.84
Saturday	
First 8 hours	\$61.84
9th hour	\$61.84
10th hour	\$61.84
Beyond 10 hours	\$61.84
Sunday/Holiday	
	\$75.93

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 4 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 4: asphalt raker

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.83	\$61.46	\$75.59
Apprentice: 0-1,000 hours	\$40.77	\$50.87	\$61.47
Apprentice: 1,001-2,000 hours	\$42.18	\$52.99	\$64.29
Apprentice: 2,001-3,000 hours	\$43.59	\$55.10	\$67.11
Apprentice: 3,001-4,000 hours	\$46.42	\$59.35	\$72.77

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$61.96
10th hour	\$61.96
Beyond 10 hours	\$61.96

Saturday

First 8 hours	\$61.96
9th hour	\$61.96
10th hour	\$61.96
Beyond 10 hours	\$61.96

Sunday/Holiday	\$76.09
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 5 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 5: pipe layers, oxy-gun

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$48.04	\$62.28	\$76.51
Apprentice: 0-1,000 hours	\$40.92	\$51.59	\$62.27
Apprentice: 1,001-2,000 hours	\$42.35	\$53.74	\$65.13
Apprentice: 2,001-3,000 hours	\$43.77	\$55.87	\$67.97
Apprentice: 3,001-4,000 hours	\$46.62	\$60.15	\$73.67

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$62.28
10th hour	\$62.28
Beyond 10 hours	\$62.28

Saturday

First 8 hours	\$62.28
9th hour	\$62.28
10th hour	\$62.28
Beyond 10 hours	\$62.28

Sunday/Holiday	\$76.51
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 6 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 6: line form setter for curb or pavement, asphalt screed checker/screw man on asphalt paving machines

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$48.34	\$62.73	\$77.11
Apprentice: 0-1,000 hours	\$41.15	\$51.94	\$62.73
Apprentice: 1,001-2,000 hours	\$42.59	\$54.10	\$65.61
Apprentice: 2,001-3,000 hours	\$44.02	\$56.25	\$68.47
Apprentice: 3,001-4,000 hours	\$46.90	\$60.57	\$74.23

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$62.73
10th hour	\$62.73
Beyond 10 hours	\$62.73

Saturday

First 8 hours	\$62.73
9th hour	\$62.73
10th hour	\$62.73
Beyond 10 hours	\$62.73

Sunday/Holiday	\$77.11
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Class 7 - RZ1	Laborer	05/10/2024

Classification Description: Laborer Road Class 7: concrete specialist - including finishing and trowling, cast in place or precast by any method

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$49.41	\$64.33	\$79.25
Apprentice: 0-1,000 hours	\$41.95	\$53.14	\$64.33
Apprentice: 1,001-2,000 hours	\$43.44	\$55.37	\$67.31
Apprentice: 2,001-3,000 hours	\$44.93	\$57.61	\$70.29
Apprentice: 3,001-4,000 hours	\$46.70	\$63.10	\$79.50

Overtime Provisions	
Over 8-hour day/40-hour week	
9th hour	\$64.33
10th hour	\$64.33
Beyond 10 hours	\$64.33
Saturday	
First 8 hours	\$64.33
9th hour	\$64.33
10th hour	\$64.33
Beyond 10 hours	\$64.33
Sunday/Holiday	\$79.25

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Hazardous - Class A - Z1	Laborer - Hazardous	05/10/2024

Classification Description: Class A performing work in conjunction with site preparation and other preliminary work prior to actual removal, handling, or containment of hazardous waste substances not requiring use of personal protective equipment required by state or federal regulat

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$46.90	\$64.85	\$82.80
Apprentice: 0-1,000 work hours	\$40.46	\$55.19	\$69.92
Apprentice: 1,001-2,000 work hours	\$41.75	\$57.13	\$72.50
Apprentice: 2,001-3,000 work hours	\$43.04	\$59.07	\$75.08
Apprentice: 3,001-4,000 work hours	\$45.61	\$62.92	\$80.22

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$59.78
10th hour	\$59.78
Beyond 10 hours	\$59.78

Saturday

First 8 hours	\$59.78
9th hour	\$59.78
10th hour	\$59.78
Beyond 10 hours	\$59.78

Sunday/Holiday	\$72.65
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Hazardous - Class B - Z1	Laborer - Hazardous	05/10/2024

Classification Description: Class B performing work in conjunction with the removal, handling, or containment of hazardous waste substances when the use of personal protective equipment levels "A", "B" or "C" is required.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$47.90	\$66.35	\$84.80
Apprentice: 0-1,000 work hours	\$41.21	\$56.32	\$71.42
Apprentice: 1,001-2,000 work hours	\$42.55	\$58.33	\$74.10
Apprentice: 2,001-3,000 work hours	\$43.89	\$60.34	\$76.78
Apprentice: 3,001-4,000 work hours	\$46.56	\$64.35	\$82.12

Overtime Provisions	
Over 8-hour day/40-hour week	
9th hour	\$61.28
10th hour	\$61.28
Beyond 10 hours	\$61.28
Saturday	
First 8 hours	\$61.28
9th hour	\$61.28
10th hour	\$61.28
Beyond 10 hours	\$61.28
Sunday/Holiday	\$74.65

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th or T-F; inclement weather makeup day Friday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Landscape - Class B1 - Z1	Laborer - Landscape	05/10/2024

Classification Description: Class B1: Landscape Operator includes air, gas, and diesel equipment operator, lawn sprinkler installer, skidsteer, mini excavators, backhoe loaders, ride and walk behind trenchers, off road dump vehicle, articulated haulers, hydroseeder, wheel loaders

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$32.40	\$42.43	\$52.95

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$42.93
10th hour	\$42.93
Beyond 10 hours	\$42.93

Saturday

First 8 hours	\$42.93
9th hour	\$42.93
10th hour	\$42.93
Beyond 10 hours	\$42.93

Sunday/Holiday	\$53.45
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Landscape - Class B1 - Z1	Laborer - Landscape	05/10/2024

Classification Description: Class B1: Landscape Operator includes air, gas, and diesel equipment operator, lawn sprinkler installer, skidsteer, mini excavators, backhoe loaders, ride and walk behind trenchers, off road dump vehicle, articulated haulers, hydroseeder, wheel loaders

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$34.62	\$46.26	\$57.89

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$11.35
10th hour	\$46.26
Beyond 10 hours	\$46.26

Saturday

First 8 hours	\$46.26
9th hour	\$46.26
10th hour	\$46.26
Beyond 10 hours	\$46.26

Sunday/Holiday	\$57.89
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer - Landscape - Class B2 - Z1	Laborer - Landscape	05/10/2024

Classification Description: Class B2: Skilled Landscape Laborer: small power tool operator, lawn sprinkler installers' tender, irrigation installers' tender, material mover

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$30.40	\$39.93	\$49.45

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$39.93
10th hour	\$39.93
Beyond 10 hours	\$39.93

Saturday

First 8 hours	\$39.93
9th hour	\$39.93
10th hour	\$39.93
Beyond 10 hours	\$39.93

Sunday/Holiday	\$49.45
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class I - Z1	Laborer Underground - Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class I - Tunnel, shaft and caisson laborer, dump man, shanty man, hog house tender, testing man (on gas), and watchman.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.17	\$51.66	\$62.14
Apprentice: 0-1,000 work hours	\$34.45	\$43.16	\$51.85
Apprentice: 1,001-2,000 work hours	\$36.54	\$46.29	\$56.03
Apprentice: 2,001-3,000 work hours	\$37.57	\$47.84	\$58.09
Apprentice: 3,001-4,000 work hours	\$39.64	\$50.94	\$62.23

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$51.66
10th hour	\$51.66
Beyond 10 hours	\$51.66
Saturday	
First 8 hours	\$51.66
9th hour	\$51.66
10th hour	\$51.66
Beyond 10 hours	\$51.66
Sunday/Holiday	
	\$62.14

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class II - Z1	Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class II - Manhole, headwall, catch basin builder, bricklayer tender, mortar man, material mixer, fence erector, and guard rail builder.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.28	\$51.82	\$62.36
Apprentice: 0-1,000 work hours	\$35.58	\$44.85	\$54.11
Apprentice: 1,001-2,000 work hours	\$36.62	\$46.41	\$56.19
Apprentice: 2,001-3,000 work hours	\$37.66	\$47.97	\$58.27
Apprentice: 3,001-4,000 work hours	\$39.74	\$51.09	\$62.43

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$51.82
10th hour	\$51.82
Beyond 10 hours	\$51.82
Saturday	
First 8 hours	\$51.82
9th hour	\$51.82
10th hour	\$51.82
Beyond 10 hours	\$51.82
Sunday/Holiday	
	\$62.36

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class III - Z1	Laborer Underground - Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class III - Air tool operator (jack hammer man, bush hammer man and grinding man), first bottom man, second bottom man, cage tender, car pusher, carrier man, concrete man, concrete form man, concrete repair man, cement invert laborer, cement finisher, con

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.34	\$51.91	\$62.48
Apprentice: 0-1,000 work hours	\$35.63	\$44.92	\$54.21
Apprentice: 1,001-2,000 work hours	\$36.67	\$46.48	\$56.29
Apprentice: 2,001-3,000 work hours	\$37.71	\$48.04	\$58.37
Apprentice: 3,001-4,000 work hours	\$39.80	\$51.18	\$62.55

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$51.91
10th hour	\$51.91
Beyond 10 hours	\$51.91
Saturday	
First 8 hours	\$51.91
9th hour	\$51.91
10th hour	\$51.91
Beyond 10 hours	\$51.91
Sunday/Holiday	
	\$62.48

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class IV - Z1	Laborer Underground - Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class IV - Tunnel, shaft and caisson mucker, bracer man, liner plate man, long haul dinky driver and well point man.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.52	\$52.18	\$62.84
Apprentice: 0-1,000 work hours	\$35.76	\$45.12	\$54.47
Apprentice: 1,001-2,000 work hours	\$36.82	\$46.71	\$56.59
Apprentice: 2,001-3,000 work hours	\$37.87	\$48.28	\$58.69
Apprentice: 3,001-4,000 work hours	\$39.97	\$51.44	\$62.89

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$52.18
10th hour	\$52.18
Beyond 10 hours	\$52.18
Saturday	
First 8 hours	\$52.18
9th hour	\$52.18
10th hour	\$52.18
Beyond 10 hours	\$52.18
Sunday/Holiday	
	\$62.84

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class V - Z1	Laborer Underground - Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class V - Tunnel, shaft and caisson miner, drill runner, keyboard operator, power knife operator, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.77	\$52.56	\$63.34
Apprentice: 0-1,000 work hours	\$35.95	\$45.40	\$54.85
Apprentice: 1,001-2,000 work hours	\$37.02	\$47.01	\$56.99
Apprentice: 2,001-3,000 work hours	\$38.08	\$48.60	\$59.11
Apprentice: 3,001-4,000 work hours	\$40.21	\$51.80	\$63.37

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$52.56
10th hour	\$52.56
Beyond 10 hours	\$52.56
Saturday	
First 8 hours	\$52.56
9th hour	\$52.56
10th hour	\$52.56
Beyond 10 hours	\$52.56
Sunday/Holiday	
	\$63.34

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Caisson - Class VI - Z1	Laborer Underground - Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class VI - Dynamite man and powder man.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.90	\$54.33	\$66.75
Apprentice: 0-1,000 work hours	\$36.20	\$45.78	\$55.35
Apprentice: 1,001-2,000 work hours	\$37.28	\$47.40	\$57.51
Apprentice: 2,001-3,000 work hours	\$38.36	\$49.02	\$59.67
Apprentice: 3,001-4,000 work hours	\$40.52	\$52.26	\$63.99

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$52.85
10th hour	\$52.85
Beyond 10 hours	\$52.85
Saturday	
First 8 hours	\$52.85
9th hour	\$52.85
10th hour	\$52.85
Beyond 10 hours	\$52.85
Sunday/Holiday	
	\$63.80

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer Underground - Tunnel, Shaft & Laborer Underground - Caisson - Class VII - Z1	Tunnel, Shaft & Caisson	05/10/2024

Classification Description: Class VII - Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes and flagstones.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$35.58	\$43.17	\$50.76
Apprentice: 0-1,000 work hours	\$31.39	\$38.56	\$45.73
Apprentice: 1,001-2,000 work hours	\$32.15	\$39.70	\$47.25
Apprentice: 2,001-3,000 work hours	\$32.91	\$40.84	\$48.77
Apprentice: 3,001-4,000 work hours	\$34.43	\$43.12	\$51.81

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$43.17
10th hour	\$43.17
Beyond 10 hours	\$43.17
Saturday	
First 8 hours	\$43.17
9th hour	\$43.17
10th hour	\$43.17
Beyond 10 hours	\$43.17
Sunday/Holiday	
	\$50.76

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class I - Z1	Laborer -Underground Open Cut, Class I	05/10/2024

Classification Description: Construction Laborer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$36.91	\$47.01	\$57.10
Apprentice: 0-1,000 work hours	\$35.39	\$44.56	\$53.73
Apprentice: 1,001-2,000 work hours	\$36.42	\$46.11	\$55.79
Apprentice: 2,001-3,000 work hours	\$37.44	\$47.64	\$57.83
Apprentice: 3,001-4,000 work hours	\$39.49	\$50.72	\$61.93

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$47.01
10th hour	\$47.01
Beyond 10 hours	\$47.01
Saturday	
First 8 hours	\$47.01
9th hour	\$47.01
10th hour	\$47.01
Beyond 10 hours	\$47.01
Sunday/Holiday	
	\$57.10

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class II - Z1	Laborer -Underground Open Cut, Class II	05/10/2024

Classification Description: Mortar and material mixer, concrete form man, signal man, well point man, manhole, headwall and catch basin builder, guard rail builders, headwall, seawall, breakwall, dock builder and fence erector.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$37.05	\$47.22	\$57.38
Apprentice: 0-1,000 work hours	\$35.47	\$44.68	\$53.89
Apprentice: 1,001-2,000 work hours	\$36.50	\$46.23	\$55.95
Apprentice: 2,001-3,000 work hours	\$37.54	\$47.79	\$58.03
Apprentice: 3,001-4,000 work hours	\$39.60	\$50.88	\$62.15

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$47.22
10th hour	\$47.22
Beyond 10 hours	\$47.22
Saturday	
First 8 hours	\$47.22
9th hour	\$47.22
10th hour	\$47.22
Beyond 10 hours	\$47.22
Sunday/Holiday	
	\$57.38

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class III - Z1	Laborer -Underground Open Cut, Class III	05/10/2024

Classification Description: Air, gasoline and electric tool operator, vibrator operator, drillers, pump man, tar kettle operator, bracers, rodder, reinforced steel or mesh man (e.g. wire mesh, steel mats, dowel bars, etc.), cement finisher, welder, pipe jacking and boring man, wagon

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$40.68	\$52.50	\$64.31
Apprentice: 0-1,000 work hours	\$35.51	\$44.74	\$53.97
Apprentice: 1,001-2,000 work hours	\$36.54	\$46.29	\$56.03
Apprentice: 2,001-3,000 work hours	\$37.58	\$47.85	\$58.11
Apprentice: 3,001-4,000 work hours	\$39.65	\$50.96	\$62.25

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$51.02
10th hour	\$51.02
Beyond 10 hours	\$51.02
Saturday	
First 8 hours	\$51.02
9th hour	\$51.02
10th hour	\$51.02
Beyond 10 hours	\$51.02
Sunday/Holiday	
	\$61.36

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class IV - Z1	Laborer -Underground Open Cut, Class IV	05/10/2024

Classification Description: Trench or excavating grade man.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$40.76	\$52.62	\$64.47
Apprentice: 0-1,000 work hours	\$35.57	\$44.84	\$54.09
Apprentice: 1,001-2,000 work hours	\$36.61	\$46.40	\$56.17
Apprentice: 2,001-3,000 work hours	\$37.65	\$47.96	\$58.25
Apprentice: 3,001-4,000 work hours	\$39.72	\$51.06	\$62.39

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$51.14
10th hour	\$51.14
Beyond 10 hours	\$51.14
Saturday	
First 8 hours	\$51.14
9th hour	\$51.14
10th hour	\$51.14
Beyond 10 hours	\$51.14
Sunday/Holiday	
	\$61.52

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class V - Z1	Laborer -Underground Open Cut, Class V	05/10/2024

Classification Description: Pipe Layer (including crock, metal pipe, mulitplate or other conduits)

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$40.82	\$52.71	\$64.59	Over 8-hour day/40-hour week
Apprentice: 0-1,000 work hours	\$35.62	\$44.91	\$54.19	9th hour \$51.23
Apprentice: 1,001-2,000 work hours	\$36.66	\$46.47	\$56.27	10th hour \$51.23
Apprentice: 2,001-3,000 work hours	\$37.70	\$48.03	\$58.35	Beyond 10 hours \$51.23
Apprentice: 3,001-4,000 work hours	\$39.78	\$51.15	\$62.51	Saturday
				First 8 hours \$51.23
				9th hour \$51.23
				10th hour \$51.23
				Beyond 10 hours \$51.23
				Sunday/Holiday \$61.64

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class VI - Z1	Laborer -Underground Open Cut, Class VI	05/10/2024

Classification Description: Grouting man, top man assistant, audio visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenan

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$38.27	\$48.88	\$59.49
Apprentice: 0-1,000 work hours	\$33.70	\$42.03	\$50.35
Apprentice: 1,001-2,000 work hours	\$34.62	\$43.41	\$52.19
Apprentice: 2,001-3,000 work hours	\$35.53	\$44.78	\$54.01
Apprentice: 3,001-4,000 work hours	\$37.36	\$47.52	\$57.67

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$47.41
10th hour	\$47.41
Beyond 10 hours	\$47.41
Saturday	
First 8 hours	\$47.41
9th hour	\$47.41
10th hour	\$47.41
Beyond 10 hours	\$47.41
Sunday/Holiday	
	\$56.54

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Laborer -Underground Open Cut - Class VII - Z1	Laborer -Underground Open Cut, Class VII	05/10/2024

Classification Description: Restoration laborer, seeding, sodding, planting, cutting, mulching and topsoil grading and the restoration of property such as replacing mail boxes, wood chips, planter boxes, flagstones etc.

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$34.89	\$43.81	\$52.73	Over 8-hour day/40-hour week
Apprentice: 0-1,000 work hours	\$31.17	\$38.24	\$45.29	9th hour \$42.34
Apprentice: 1,001-2,000 work hours	\$31.91	\$39.34	\$46.77	10th hour \$42.34
Apprentice: 2,001-3,000 work hours	\$32.66	\$40.47	\$48.27	Beyond 10 hours \$42.34
Apprentice: 3,001-4,000 work hours	\$34.15	\$42.70	\$51.25	Saturday
				First 8 hours \$42.34
				9th hour \$42.34
				10th hour \$42.34
				Beyond 10 hours \$42.34
				Sunday/Holiday \$49.78

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class I	Operating Engineer	05/10/2024

Classification Description: Class I - diver/wet tender, engineer, blaster, leverman

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$82.82	\$107.82	\$132.82

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$32.82
10th hour	\$107.82
Beyond 10 hours	\$107.82

Saturday

First 8 hours	\$107.82
9th hour	\$107.82
10th hour	\$107.82
Beyond 10 hours	\$107.82

Sunday/Holiday

\$132.82

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class II (A)	Operating Engineer	05/10/2024

Classification Description: Class II (A) - Crane/backhoe operator, material handler, all self-propelled drill rigs, mechanic/welder, hydraulic dredge, diver tender

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$81.32	\$105.57	\$129.82

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$32.82
10th hour	\$105.57
Beyond 10 hours	\$105.57

Saturday

First 8 hours	\$105.57
9th hour	\$105.57
10th hour	\$105.57
Beyond 10 hours	\$105.57

Sunday/Holiday	\$129.82
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class II (B)	Operating Engineer	05/10/2024

Classification Description: Class II (B) - friction, lattice boom, tug or tug boat operator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$84.32	\$110.07	\$135.82

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$110.07
10th hour	\$110.07
Beyond 10 hours	\$110.07

Saturday

First 8 hours	\$110.07
9th hour	\$110.07
10th hour	\$110.07
Beyond 10 hours	\$110.07

Sunday/Holiday	\$135.82
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class III	Operating Engineer	05/10/2024

Classification Description: Class III - Deck equip. operator, maintenance of crane or excavator, tug/launch operator, loader/dozer on barge/deck machinery, truck-able tug, lead surveyor, ROV operator, AB deckhand, welder

Wage Rates	Straight Time	Time and a Half	Double Time	Overtime Provisions
Total Hourly Wage	\$76.82	\$98.82	\$120.82	Over 8-hour day/40-hour week
				9th hour \$98.82
				10th hour \$98.82
				Beyond 10 hours \$98.82
				Saturday
				First 8 hours \$98.82
				9th hour \$98.82
				10th hour \$98.82
				Beyond 10 hours \$98.82
				Sunday/Holiday \$120.82

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Class IV	Operating Engineer	05/10/2024

Classification Description: Class IV - Deck equipment operator, machineryman/fireman, off road trucks, deck hand, tug engineer, assistant tug operator, blaster helper, deck hand, jet machine, subsea plow, trencher, tug engineer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$72.32	\$92.07	\$111.82

Overtime Provisions	
Over 8-hour day/40-hour week	
9th hour	\$32.82
10th hour	\$92.07
Beyond 10 hours	\$92.07
Saturday	
First 8 hours	\$92.07
9th hour	\$92.07
10th hour	\$92.07
Beyond 10 hours	\$92.07
Sunday/Holiday	\$111.82

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Extended Boom Forklift Operator - Over 5,000	Operating Engineer	05/10/2024

Classification Description: Extended boom forklift/forktruck over 5,000lb capacity, 1 drum hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.43	\$54.43	\$67.42

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$54.43
10th hour	\$54.43
Beyond 10 hours	\$67.42
Saturday	
First 8 hours	\$54.43
9th hour	\$54.43
10th hour	\$54.43
Beyond 10 hours	\$67.42
Sunday/Holiday	
	\$67.42

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Extended Boom Forklift Operator - Over 5,000	Operating Engineer	05/10/2024

Classification Description: Extended boom forklift/forktruck over 5,000lb capacity, 1 drum hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$58.82	\$73.32	\$87.81

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$73.32
10th hour	\$73.32
Beyond 10 hours	\$87.81
Saturday	
First 8 hours	\$73.32
9th hour	\$73.32
10th hour	\$73.32
Beyond 10 hours	\$87.81
Sunday/Holiday	
	\$87.81

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Extended Boom Forklift Operator - Over 5,000	Operating Engineer	05/10/2024

Classification Description: Extended boom forklift/forktruck over 5,000lb capacity, 1 drum hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$64.70	\$81.75	\$98.80

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$81.75
10th hour	\$81.75
Beyond 10 hours	\$98.80
Saturday	
First 8 hours	\$81.75
9th hour	\$81.75
10th hour	\$81.75
Beyond 10 hours	\$98.80
Sunday/Holiday	
	\$98.80

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Extended Boom Forklift Operator - Over 5,000	Operating Engineer	05/10/2024

Classification Description: Extended boom forklift/forktruck over 5,000lb capacity, 1 drum hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$69.61	\$88.88	\$108.15

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$88.88
10th hour	\$88.88
Beyond 10 hours	\$108.15

Saturday

First 8 hours	\$88.88
9th hour	\$88.88
10th hour	\$88.88
Beyond 10 hours	\$108.15

Sunday/Holiday	\$108.15
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Extended Boom Forklift Operator - Over 5,000	Operating Engineer	05/10/2024

Classification Description: Extended boom forklift/forktruck over 5,000lb capacity, 1 drum hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$63.29	\$79.73	\$96.16

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$79.73
10th hour	\$79.73
Beyond 10 hours	\$96.16

Saturday

First 8 hours	\$79.73
9th hour	\$79.73
10th hour	\$79.73
Beyond 10 hours	\$96.16

Sunday/Holiday	\$96.16
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman - Class I	Operating Engineer	05/17/2024

Classification Description: Journeyman - Class I

Asphalt Transfer Machine (Shuttle Buggy)

Concrete/Asphalt Pavers

Excavators Installing Utilities over 20 feet in depth

GPS or Electronic Grade Equipment (employee must be able to set up and use it on machine themselves, and employee can install it and calibrate it on their own)

Hydraulic/Lattice Lifting Cranes over 25 tons

Mechanic

**On bridge construction projects when a Class I Crane Operator is erecting structural components as part of a composite crew with Structural Ironworkers, the Base Rate and Vacation and Holiday pay shall be at the Crane Operator rate as set forth in the current agreement between the Union and the Great Lakes Fabricators and Erectors Association.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$69.17	\$88.16	\$107.14
Apprentice: Apprentice Engineer 0-6 months	\$56.03	\$71.32	\$86.60
Apprentice: Apprentice Engineer 13-18	\$60.40	\$77.87	\$95.34
Apprentice: Apprentice Engineer 19-24 months	\$62.21	\$80.59	\$98.96
Apprentice: Apprentice Engineer 25-30 months	\$64.76	\$84.42	\$104.06
Apprentice: Apprentice Engineer 31-36 months	\$67.08	\$87.90	\$108.70
Apprentice: Apprentice Engineer 7-12 months	\$58.21	\$74.58	\$90.96

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$91.03
10th hour	\$91.03
Beyond 10 hours	\$91.03
Saturday	
First 8 hours	\$91.03
9th hour	\$91.03
10th hour	\$91.03
Beyond 10 hours	\$91.03
Sunday/Holiday	
	\$112.88

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

In the event work is unable to be performed on account of weather, Monday through Thursday, the Friday work may be scheduled for ten (10) hours, at straight time, as a make-up day.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman - Class II	Operating Engineer	05/17/2024

Classification Description: Journeyman - Class II

- Air Compressors in Manifold with throttle valve +750 cfm
- Asphalt Bituminous Compactor / Roller
- Asphalt Planner self-propelled
- Asphalt Plant on project including operating from on site or operating remotely
- Asphalt Screed or Screw (per Employer Past Practice)
- Auto Grade or similar type machine
- Backhoe on Farm Type Tractor 45 H.P. & over
- Ballast Jack Tamper
- Ballast Regulator (R.R.)
- Batch Plant (concrete-central mix)
- Bituminous Paver (self-propelled)
- Blade Grader
- Bull Dozer
- Caisson Drilling Machine
- Cherry Picker – 15 ton or over
- Chip Spreader
- Concrete Batch or Drum Mix Plant on project including operating from on site or operating remotely
- Concrete Belt Placer (Formless)
- Concrete Cure / Finish Machine (burlap, tinning or grooving)
- Concrete Mixer 21 cu. Ft. Or over
- Concrete Pump (Truck Mount)
- Concrete Pump (3 inch and over)
- Concrete / Asphalt Saw Power Driven (3 yrs experience or more)
- Conveyor Loader (Euclid type)
- Core Drilling Machine
- Curb-Barrier Wall Machine CMI type
- Directional Drill / Boring Machine
- Dredge Engineer
- Dredge
- Drilling Machine on which the drill is an integral part
- Earth Mover – rubber tired – (paddle wheel, Cat 619, 631, TS-24 or similar type)
- Earth Mover rubber tired-tandem

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$57.19	\$71.14	\$85.09

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$71.14
10th hour	\$71.14
Beyond 10 hours	\$71.14

Saturday

First 8 hours	\$71.14
9th hour	\$71.14
10th hour	\$71.14
Beyond 10 hours	\$71.14

Sunday/Holiday	\$85.09
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman - Class III	Operating Engineer	05/17/2024

Classification Description: Journeyman - Class III
Air Compressor with Throttle Valve or Clever Brooks type comb.
Backhoe less than 1 cyd. Including Farm Type
Bituminous Plant Engineer
Chemical / Grout Machine 21 cft. Or larger
Cherry Picker under 15 ton
Chip Spreader (self-propelled)
Crusher
Concrete Barrier Moving Machine (per Employer Past Practice)
Concrete Pump
Concrete Spreader--Power Driven
End Loader under 1-1/2 cu yd.
Grease Truck
Gunit Machine
Lowboy (per Employer Past Practice)
Mesh or Steel Placer (motorized)
Multiple Tamping Machine (R.R.)
Refrigerating Machine--Freezing operation
Roller-Waterbound Macadam, Bituminous Macadam, Brick
Ross Carrier
Self-propelled convey transfer devise.
Side Boom Tractor (smaller than D-4 type or equivalent)
Sweeper (Wayne type and similar equipment)
Macadam, Brick Surface
Trench Machine 24" and under
Tube Float (motorized)

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$56.63	\$70.34	\$84.04

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$29.22
10th hour	\$70.34
Beyond 10 hours	\$70.34

Saturday

First 8 hours	\$70.34
9th hour	\$70.34
10th hour	\$70.34
Beyond 10 hours	\$70.34

Sunday/Holiday	\$84.04
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman - Class IV	Operating Engineer	05/17/2024

Classification Description: Journeyman - Class IV

- Air Compressor
- All mulching equipment
- All Walk Behind or Remote Control Powered Equipment (autonomous equipment)
- Assistant to Engineer Automatic Dry Batch Plant Belt Spreader (motorized including transfer device by remote, wireless or cable)
- Bituminous Distributor
- Bituminous Patching Machine
- Broom & Belt Machine
- Chair Cart (self-propelled)
- Concrete Pumps (under 3")
- Concrete Breaker
- Curb Machine
- Curing Equipment (self-propelled)
- Deck Hand
- Digger Post Hole (power-driven)
- Dump Truck
- End Dumps (per Employer Past Practice)
- End Loader (under ¾ yard capacity)
- Farm Tractor-incl. farm tractor with all attachments except backhoe and incl. highlift end loaders of 1 cu. Yard capacity or less
- Fireman (on boiler)
- Fork Lift – under 10 ton
- Form Grader (if motorized)
- Georgia Buggy – Power wheel barrel ¾ yard with a seat
- Generator (15 kw or greater)
- Greaser Helper
- Guard Post Driver (power driven)

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$56.46	\$70.09	\$83.72

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$70.09
10th hour	\$70.09
Beyond 10 hours	\$70.09

Saturday

First 8 hours	\$70.09
9th hour	\$70.09
10th hour	\$70.09
Beyond 10 hours	\$70.09

Sunday/Holiday	\$83.72
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Journeyman - Class V	Operating Engineer	05/17/2024

Classification Description: Journeyman - Class V
 Concrete/Asphalt Saw - Power Driven (Less than 3 yrs. experience)
 Density/Soil Engineer
 Directional Boring Utility Man
 Discharge Pumps 4" or less (1-4 units)
 Dumper (Wagon, Truck, Etc.)-1/2 yard or less
 Fence Erector/Power Driven
 Light Plants (1 to 5 units)
 Paving Batch Truck Dumper
 Roto Mill Utility Grade Control
 Sign Installer/Sign Installer with Remote Control Operated Equipment
 Top Man, And Railroad Track and Trestle Engineer
 Utility Engineer
 Water Blasting Utility Engineer
 1 to 4 pcs. of minor equip.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$38.25	\$49.62	\$60.99

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$49.62
10th hour	\$49.62
Beyond 10 hours	\$49.62
Saturday	
First 8 hours	\$49.62
9th hour	\$49.62
10th hour	\$49.62
Beyond 10 hours	\$49.62
Sunday/Holiday	
	\$60.99

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - 324 A120	Operating Engineer	05/10/2024

Classification Description: Crane with boom & jib or leads 120' or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$66.90	\$87.58	\$108.26

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$84.89
10th hour	\$84.89
Beyond 10 hours	\$84.89

Saturday

First 8 hours	\$84.89
9th hour	\$102.87
10th hour	\$102.87
Beyond 10 hours	\$102.87

Sunday/Holiday	\$102.87
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - 324 A140	Operating Engineer	05/10/2024

Classification Description: Crane with boom & jib or leads 140' or longer

Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.61	\$85.95	\$104.29

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$85.95
10th hour	\$85.95
Beyond 10 hours	\$85.95

Saturday

First 8 hours	\$85.95
9th hour	\$104.29
10th hour	\$104.29
Beyond 10 hours	\$104.29

Sunday/Holiday	\$104.29
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - 324 A220	Operating Engineer	05/10/2024

Classification Description: Crane with boom & jib or leads 220' or longer
 Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.97	\$86.44	\$104.90

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$86.44
10th hour	\$86.44
Beyond 10 hours	\$86.44

Saturday

First 8 hours	\$86.44
9th hour	\$104.90
10th hour	\$104.90
Beyond 10 hours	\$104.90

Sunday/Holiday	\$104.90
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - 324 A300	Operating Engineer	05/10/2024

Classification Description: Crane with boom & jib or leads 300' or longer
Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$69.52	\$88.64	\$107.76

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$88.64
10th hour	\$88.64
Beyond 10 hours	\$88.64

Saturday

First 8 hours	\$88.64
9th hour	\$107.76
10th hour	\$107.76
Beyond 10 hours	\$107.76

Sunday/Holiday	\$107.76
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - 324 A400	Operating Engineer	05/10/2024

Classification Description: Crane with boom & jib or leads 400' or longer
 Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$71.02	\$90.80	\$110.57

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$90.80
10th hour	\$90.80
Beyond 10 hours	\$90.80

Saturday

First 8 hours	\$90.80
9th hour	\$110.57
10th hour	\$110.57
Beyond 10 hours	\$110.57

Sunday/Holiday	\$110.57
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - CW	Operating Engineer	05/10/2024

Classification Description: Compressor or welding machine
 Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$54.86	\$69.72	\$84.58

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.78
10th hour	\$67.78
Beyond 10 hours	\$67.78

Saturday

First 8 hours	\$67.78
9th hour	\$80.70
10th hour	\$80.70
Beyond 10 hours	\$80.70

Sunday/Holiday

\$80.70

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - F	Operating Engineer	05/10/2024

Classification Description: Forklift, lull, extend-a-boom forklift
 Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$63.36	\$79.81	\$96.25

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$79.81
10th hour	\$79.81
Beyond 10 hours	\$79.81

Saturday

First 8 hours	\$79.81
9th hour	\$96.25
10th hour	\$96.25
Beyond 10 hours	\$96.25

Sunday/Holiday

\$96.25

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - FO	Operating Engineer	05/10/2024

Classification Description: Fireman or oiler

Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.83	\$68.18	\$82.52

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$66.31
10th hour	\$66.31
Beyond 10 hours	\$66.31

Saturday

First 8 hours	\$66.31
9th hour	\$78.78
10th hour	\$78.78
Beyond 10 hours	\$78.78

Sunday/Holiday	\$78.78
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - FSM	Operating Engineer	05/10/2024

Classification Description: Forklift or Straight Mast

Four 10 hour days may be scheduled M-Th or T-F. Work not performed due to weather on M-Th may be scheduled on Friday

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$57.50	\$71.40	\$85.29

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$71.40
10th hour	\$71.40
Beyond 10 hours	\$71.40
Saturday	
First 8 hours	\$71.40
9th hour	\$85.29
10th hour	\$85.29
Beyond 10 hours	\$85.29
Sunday/Holiday	
	\$85.29

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Friday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - I	Operating Engineer	05/10/2024

Classification Description: Lull or Extend-a-Boom Forklift

Four 10 hour days may be scheduled M-Th or T-F. Work not performed due to weather on M-Th may be scheduled on Friday

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$59.73	\$77.09	\$94.45

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$74.83
10th hour	\$74.83
Beyond 10 hours	\$74.83

Saturday

First 8 hours	\$74.83
9th hour	\$89.92
10th hour	\$89.92
Beyond 10 hours	\$89.92

Sunday/Holiday	\$89.92
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Friday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - os120	Operating Engineer	05/10/2024

Classification Description: Crane with main boom & jib 120' or longer

Four 10 hour days may be scheduled Monday-Thursday or Tuesday-Friday. Worked not performed due to weather, Monday-Thursday may be scheuled Friday

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$63.27	\$82.40	\$101.53

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$79.91
10th hour	\$79.91
Beyond 10 hours	\$79.91
Saturday	
First 8 hours	\$79.91
9th hour	\$96.54
10th hour	\$96.54
Beyond 10 hours	\$96.54
Sunday/Holiday	
	\$96.54

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Friday

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - RC	Operating Engineer	05/10/2024

Classification Description: Regular crane, job mechanic, concrete pump with boom

Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$64.85	\$84.71	\$104.56

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$82.12
10th hour	\$82.12
Beyond 10 hours	\$82.12

Saturday

First 8 hours	\$82.12
9th hour	\$99.38
10th hour	\$99.38
Beyond 10 hours	\$99.38

Sunday/Holiday	\$99.38
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - RE	Operating Engineer	05/10/2024

Classification Description: Regular engineer, hydro-excavator, remote controlled concrete breaker
 Work in excess of 12 per day M-F shall be paid at double time.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$63.88	\$83.25	\$102.62
Apprentice: 0-999 hours	\$46.35	\$58.48	\$70.61
Apprentice: 1,000-1,999 hours	\$48.09	\$61.10	\$74.09
Apprentice: 2,000-2,999 hours	\$49.82	\$63.68	\$77.55
Apprentice: 3,000-3,999 hours	\$51.55	\$66.28	\$81.01
Apprentice: 4,000-4,999 hours	\$53.29	\$68.90	\$84.49
Apprentice: 5,000-5,999 hours	\$55.01	\$71.47	\$87.93

Overtime Provisions	
Over 8-hour day/40-hour week	
9th hour	\$80.73
10th hour	\$80.73
Beyond 10 hours	\$80.73
Saturday	
First 8 hours	\$80.73
9th hour	\$97.57
10th hour	\$97.57
Beyond 10 hours	\$97.57
Sunday/Holiday	\$97.57

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer - EF	Operating Engineer Steel Work	05/10/2024

Classification Description: Extended boom forklift over 5,000 lb capacity, 1 Drum Hoist

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$69.61	\$88.88	\$108.15

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$88.88
10th hour	\$88.88
Beyond 10 hours	\$108.15

Saturday

First 8 hours	\$88.88
9th hour	\$88.88
10th hour	\$88.88
Beyond 10 hours	\$108.15

Sunday/Holiday	\$108.15
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW120	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 120' boom or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.14	\$95.24	\$116.33

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$95.24
10th hour	\$95.24
Beyond 10 hours	\$116.33
Saturday	
First 8 hours	\$95.24
9th hour	\$95.24
10th hour	\$95.24
Beyond 10 hours	\$116.33
Sunday/Holiday	
	\$116.33

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW120	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 120' boom or longer w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$75.01	\$96.54	\$118.07

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$96.54
10th hour	\$96.54
Beyond 10 hours	\$118.07
Saturday	
First 8 hours	\$96.54
9th hour	\$96.54
10th hour	\$96.54
Beyond 10 hours	\$118.07
Sunday/Holiday	
	\$118.07

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW140	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 140' boom or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$75.19	\$96.80	\$118.41

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$96.80
10th hour	\$96.80
Beyond 10 hours	\$118.41
Saturday	
First 8 hours	\$96.80
9th hour	\$96.80
10th hour	\$96.80
Beyond 10 hours	\$118.41
Sunday/Holiday	
	\$118.41

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW140	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 140' boom or longer W/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.19	\$98.24	\$120.28

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$120.28
Saturday	
First 8 hours	\$98.24
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$120.28
Sunday/Holiday	
	\$120.28

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW220	Operating Engineer Steel Work	05/10/2024

Classification Description: Boom & Jib 220' or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.46	\$98.62	\$120.78

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$98.62
10th hour	\$98.62
Beyond 10 hours	\$120.78
Saturday	
First 8 hours	\$98.62
9th hour	\$98.62
10th hour	\$98.62
Beyond 10 hours	\$120.78
Sunday/Holiday	
	\$120.78

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW220	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 220' boom or longer w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.01	\$95.11	\$116.20

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$95.11
10th hour	\$95.11
Beyond 10 hours	\$116.20
Saturday	
First 8 hours	\$95.11
9th hour	\$95.11
10th hour	\$95.11
Beyond 10 hours	\$116.20
Sunday/Holiday	
	\$116.20

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW300	Operating Engineer Steel Work	05/10/2024

Classification Description: Boom & Jib 300' or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$76.96	\$99.34	\$121.72

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$99.34
10th hour	\$99.34
Beyond 10 hours	\$121.72
Saturday	
First 8 hours	\$99.34
9th hour	\$99.34
10th hour	\$99.34
Beyond 10 hours	\$121.72
Sunday/Holiday	
	\$121.72

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW300	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 300' boom or longer w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$77.96	\$100.78	\$123.59

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$100.78
10th hour	\$100.78
Beyond 10 hours	\$123.59
Saturday	
First 8 hours	\$100.78
9th hour	\$100.78
10th hour	\$100.78
Beyond 10 hours	\$123.59
Sunday/Holiday	
	\$123.59

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW400	Operating Engineer Steel Work	05/10/2024

Classification Description: Boom & Jib 400' or longer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$78.46	\$101.49	\$124.52

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$101.49
10th hour	\$101.49
Beyond 10 hours	\$124.52
Saturday	
First 8 hours	\$101.49
9th hour	\$101.49
10th hour	\$101.49
Beyond 10 hours	\$124.52
Sunday/Holiday	
	\$124.52

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SW400	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane w/ 400' boom or longer w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$79.46	\$102.93	\$126.39

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$102.93
10th hour	\$102.93
Beyond 10 hours	\$126.39
Saturday	
First 8 hours	\$102.93
9th hour	\$102.93
10th hour	\$102.93
Beyond 10 hours	\$126.39
Sunday/Holiday	
	\$126.39

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWCO	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane Operator, Job Mechanic, 3 Drum Hoist & Excavator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$73.65	\$94.59	\$115.53
Apprentice: 0-999 hours	\$59.16	\$76.02	\$92.88
Apprentice: 1,000-1,999 hours	\$61.56	\$79.63	\$97.68
Apprentice: 2,000-2,999 hours	\$63.96	\$83.22	\$102.48
Apprentice: 3,000-3,999 hours	\$66.38	\$84.18	\$101.98
Apprentice: 4,000-4,999 hours	\$68.78	\$90.46	\$112.12
Apprentice: 5,000 hours	\$71.20	\$91.09	\$110.99

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$94.59
10th hour	\$94.59
Beyond 10 hours	\$115.53
Saturday	
First 8 hours	\$94.59
9th hour	\$94.59
10th hour	\$94.59
Beyond 10 hours	\$115.53
Sunday/Holiday	
	\$115.53

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWCO-O	Operating Engineer Steel Work	05/10/2024

Classification Description: Crane Operator w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.65	\$96.03	\$117.40

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$96.03
10th hour	\$96.03
Beyond 10 hours	\$117.40
Saturday	
First 8 hours	\$96.03
9th hour	\$96.03
10th hour	\$96.03
Beyond 10 hours	\$117.40
Sunday/Holiday	
	\$117.40

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWCW	Operating Engineer Steel Work	05/10/2024

Classification Description: Compressor or Welder Operator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$37.03	\$49.48	\$61.92

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$47.85
10th hour	\$47.85
Beyond 10 hours	\$58.67
Saturday	
First 8 hours	\$47.85
9th hour	\$47.85
10th hour	\$47.85
Beyond 10 hours	\$58.67
Sunday/Holiday	
	\$58.67

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWHO	Operating Engineer Steel Work	05/10/2024

Classification Description: Hoisting Operator, 2 Drum Hoist, & Rubber Tire Backhoe

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$73.01	\$93.67	\$114.33

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$93.67
10th hour	\$93.67
Beyond 10 hours	\$114.33
Saturday	
First 8 hours	\$93.67
9th hour	\$93.67
10th hour	\$93.67
Beyond 10 hours	\$114.33
Sunday/Holiday	
	\$114.33

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWO	Operating Engineer Steel Work	05/10/2024

Classification Description: Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.42	\$67.61	\$81.80

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$65.74
10th hour	\$65.74
Beyond 10 hours	\$78.06
Saturday	
First 8 hours	\$65.74
9th hour	\$65.74
10th hour	\$65.74
Beyond 10 hours	\$78.06
Sunday/Holiday	
	\$78.06

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWTD50	Operating Engineer Steel Work	05/10/2024

Classification Description: Tower Crane & Derrick where work is 50' or more

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.74	\$96.16	\$117.57

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$96.16
10th hour	\$96.16
Beyond 10 hours	\$117.57
Saturday	
First 8 hours	\$96.16
9th hour	\$96.16
10th hour	\$96.16
Beyond 10 hours	\$117.57
Sunday/Holiday	
	\$117.57

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Steel Work - SWTD50 O	Operating Engineer Steel Work	05/10/2024

Classification Description: Tower Crane & Derrick 50' or more w/ Oiler

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$75.84	\$97.69	\$119.54

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$97.69
10th hour	\$97.69
Beyond 10 hours	\$119.54
Saturday	
First 8 hours	\$97.69
9th hour	\$97.69
10th hour	\$97.69
Beyond 10 hours	\$119.54
Sunday/Holiday	
	\$119.54

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

4 10s allowed M-Th with Friday makeup day because of bad weather

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A1-UC1	Operating Engineer Underground	05/10/2024

Classification Description: Class I Equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$66.39	\$84.19	\$101.98
Apprentice: 0-999 hours	\$52.76	\$67.08	\$81.41
Apprentice: 1,000-1,999 hours	\$54.80	\$70.14	\$85.49
Apprentice: 2,000-2,999 hours	\$56.85	\$73.22	\$89.59
Apprentice: 3,000-3,999 hours	\$58.90	\$76.30	\$93.69
Apprentice: 4,000-4,999 hours	\$60.94	\$79.35	\$97.77
Apprentice: 5,000-5,999 hours	\$62.99	\$82.43	\$101.87

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$84.19
10th hour	\$84.19
Beyond 10 hours	\$84.19
Saturday	
First 8 hours	\$84.19
9th hour	\$84.19
10th hour	\$84.19
Beyond 10 hours	\$84.19
Sunday/Holiday	
	\$101.98

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A1-UC2	Operating Engineer Underground	05/10/2024

Classification Description: Class II Equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$61.68	\$77.42	\$93.16

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$77.42
10th hour	\$77.42
Beyond 10 hours	\$77.42
Saturday	
First 8 hours	\$77.42
9th hour	\$77.42
10th hour	\$77.42
Beyond 10 hours	\$77.42
Sunday/Holiday	
	\$93.16

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A1-UC3	Operating Engineer Underground	05/10/2024

Classification Description: Class III Equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$60.93	\$76.35	\$91.77

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$76.35
10th hour	\$76.35
Beyond 10 hours	\$76.35

Saturday

First 8 hours	\$76.35
9th hour	\$76.35
10th hour	\$76.35
Beyond 10 hours	\$76.35

Sunday/Holiday	\$91.77
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A1-UC4	Operating Engineer Underground	05/10/2024

Classification Description: Class IV Equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$60.36	\$75.54	\$90.71

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$75.54
10th hour	\$75.54
Beyond 10 hours	\$75.54
Saturday	
First 8 hours	\$75.54
9th hour	\$75.54
10th hour	\$75.54
Beyond 10 hours	\$75.54
Sunday/Holiday	
	\$90.71

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A2-UC1	Operating Engineer Underground	05/10/2024

Classification Description: Class I Equipment - Backfiller Tamper, Backhoe, Batch Plant Operator, Clamshell, Concrete Paver 2 drums or larger, Conveyor Loader Euclid type, Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, endloader, gradall, grader, hyd

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$65.17	\$82.61	\$100.05
Apprentice: 0-999 hours	\$49.19	\$61.74	\$74.29
Apprentice: 1,000-1,999 hours	\$50.99	\$64.44	\$77.89
Apprentice: 2,000-2,999 hours	\$52.78	\$67.12	\$81.47
Apprentice: 3,000-3,999 hours	\$54.58	\$69.82	\$85.07
Apprentice: 4,000-4,999 hours	\$56.37	\$72.51	\$88.65
Apprentice: 5,000-5,999 hours	\$58.16	\$75.19	\$92.23

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$82.61
10th hour	\$82.61
Beyond 10 hours	\$82.61
Saturday	
First 8 hours	\$82.61
9th hour	\$82.61
10th hour	\$82.61
Beyond 10 hours	\$82.61
Sunday/Holiday	
	\$100.05

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A2-UC2	Operating Engineer Underground	05/10/2024

Classification Description: Class II Equipment - Boom Truck, Crusher, Hoist, Pump 6 inch discharge or larger, side boom tractor, Tractor (pneu-tired other than backhoe or front end loader), Trencher 8 ft. digging capacity and smaller, Vac Truck

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$60.42	\$75.80	\$91.17

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$75.80
10th hour	\$75.80
Beyond 10 hours	\$75.80
Saturday	
First 8 hours	\$75.80
9th hour	\$75.80
10th hour	\$75.80
Beyond 10 hours	\$75.80
Sunday/Holiday	
	\$91.17

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A2-UC3	Operating Engineer Underground	05/10/2024

Classification Description: Class III Equipment - Air Compressors 600 cfm or larger, Air Compressors 2 or more less than 600 dfm, Boom Truck non-swinging non-powered type boom, Concrete Breaker self-propelled or truck mounted, Concrete paver 1 drum 1/2 yd. or larger, Elevator other

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$59.59	\$74.61	\$89.62

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$74.61
10th hour	\$74.61
Beyond 10 hours	\$74.61

Saturday

First 8 hours	\$74.61
9th hour	\$74.61
10th hour	\$74.61
Beyond 10 hours	\$74.61

Sunday/Holiday	\$89.62
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Operating Engineer Underground - A2-UC4	Operating Engineer Underground	05/10/2024

Classification Description: Class IV Equipment - Boiler, Concrete Saw 40 hp or over, curing machine self propelled, end dumps, extend a boom forklift, farm tractor with attachment, finishing machine concrete, firemen, hydraulic pipe pushing machine, mulching equipment, oiler, pumps

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$58.93	\$73.66	\$88.38

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$73.66
10th hour	\$73.66
Beyond 10 hours	\$73.66

Saturday

First 8 hours	\$73.66
9th hour	\$73.66
10th hour	\$73.66
Beyond 10 hours	\$73.66

Sunday/Holiday	\$88.38
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Painter - PT	Painter	05/10/2024

Classification Description: Painter

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$50.12	\$64.80	\$79.73
Apprentice: 1st period	\$35.19	\$42.41	\$49.87
Apprentice: 2nd period	\$38.18	\$46.89	\$55.85
Apprentice: 3rd period	\$41.16	\$51.36	\$61.81
Apprentice: 4th period	\$45.64	\$58.08	\$70.77

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$65.05
10th hour	\$65.05
Beyond 10 hours	\$65.05
Saturday	
First 8 hours	\$65.05
9th hour	\$65.05
10th hour	\$65.05
Beyond 10 hours	\$65.05
Sunday/Holiday	
	\$79.98

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 1	Pipe and Manhole Rehab	05/10/2024

Classification Description: General Laborer for rehab work or normal cleaning and cctv work-top man, scaffold man, CCTV assistant, jetter-vac assistant

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$28.20	\$38.20	\$48.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$38.20
10th hour	\$38.20
Beyond 10 hours	\$38.20

Saturday

First 8 hours	\$38.20
9th hour	\$38.20
10th hour	\$38.20
Beyond 10 hours	\$38.20

Sunday/Holiday	\$38.20
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 2	Pipe and Manhole Rehab	05/10/2024

Classification Description: Tap cutter/CCTV Tech/Grout Equipment Operator: unit driver and operator of CCTV; grouting equipment and tap cutting equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$32.70	\$44.95	\$57.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$44.95
10th hour	\$44.95
Beyond 10 hours	\$44.95

Saturday

First 8 hours	\$44.95
9th hour	\$44.95
10th hour	\$44.95
Beyond 10 hours	\$44.95

Sunday/Holiday

\$44.95

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 3	Pipe and Manhole Rehab	05/10/2024

Classification Description: CCTV Technician/Combo Unit Operator: unit driver and operator of cctv unit or combo unit in connection with normal cleaning and televising work

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$31.45	\$43.07	\$54.69

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$43.07
10th hour	\$43.07
Beyond 10 hours	\$43.07

Saturday

First 8 hours	\$43.07
9th hour	\$43.07
10th hour	\$43.07
Beyond 10 hours	\$43.07

Sunday/Holiday	\$43.07
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 4	Pipe and Manhole Rehab	05/10/2024

Classification Description: Boiler Operator: unit driver and operator of steam/water heater units and all ancillary equipment associated

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$33.20	\$45.70	\$58.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$45.70
10th hour	\$45.70
Beyond 10 hours	\$45.70

Saturday

First 8 hours	\$45.70
9th hour	\$45.70
10th hour	\$45.70
Beyond 10 hours	\$45.70

Sunday/Holiday	\$45.70
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 5	Pipe and Manhole Rehab	05/10/2024

Classification Description: Combo Unit driver & Jetter-Vac Operator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$33.20	\$45.70	\$58.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$45.70
10th hour	\$45.70
Beyond 10 hours	\$45.70

Saturday

First 8 hours	\$45.70
9th hour	\$45.70
10th hour	\$45.70
Beyond 10 hours	\$45.70

Sunday/Holiday

\$45.70

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipe and Manhole Rehab - 6	Pipe and Manhole Rehab	05/10/2024

Classification Description: Pipe Bursting & Slip-lining Equipment Operator

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$34.20	\$47.20	\$60.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$47.20
10th hour	\$47.20
Beyond 10 hours	\$47.20

Saturday

First 8 hours	\$47.20
9th hour	\$47.20
10th hour	\$47.20
Beyond 10 hours	\$47.20

Sunday/Holiday

\$47.20

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Pipefitter	Pipefitter	05/10/2024

Classification Description: Pipefitter, Steamfitter, HVAC-R mechanic

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$77.06	\$100.47	\$118.67
Apprentice: 10th period	\$42.91	\$57.34	\$70.42
Apprentice: 1st & 2nd periods	\$34.00	\$43.98	\$52.60
Apprentice: 3rd period	\$35.25	\$45.85	\$55.10
Apprentice: 4th period	\$36.25	\$47.35	\$57.10
Apprentice: 5th period	\$36.98	\$48.44	\$58.56
Apprentice: 6th period	\$38.23	\$50.32	\$61.06
Apprentice: 7th period	\$39.48	\$52.20	\$63.56
Apprentice: 8th period	\$40.48	\$53.70	\$65.56
Apprentice: 9th period	\$41.48	\$55.20	\$67.56

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$95.27
10th hour	\$95.27
Beyond 10 hours	\$113.47
Saturday	
First 8 hours	\$95.27
9th hour	\$95.27
10th hour	\$113.47
Beyond 10 hours	\$113.47
Sunday/Holiday	
	\$113.47

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - 14 P	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$57.16	\$73.88	\$90.60
Apprentice: 0-749 hours	\$45.46	\$56.33	\$67.20
Apprentice: 1,500-2,249 hours	\$48.80	\$61.34	\$73.88
Apprentice: 2,250-2,999 hours	\$50.47	\$63.84	\$77.22
Apprentice: 3,000-3,749 hours	\$52.14	\$66.35	\$80.56
Apprentice: 3,750-4,499 hours	\$53.82	\$68.87	\$83.92
Apprentice: 4,500 hours	\$57.16	\$73.88	\$90.60
Apprentice: 750-1,499 hours	\$47.13	\$58.84	\$70.54

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$73.88
10th hour	\$73.88
Beyond 10 hours	\$73.88

Saturday

First 8 hours	\$73.88
9th hour	\$73.88
10th hour	\$73.88
Beyond 10 hours	\$73.88

Sunday/Holiday	\$90.60
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - 3 P	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.38	\$67.63	\$81.88
Apprentice: 0-749 hours	\$43.41	\$52.68	\$61.94
Apprentice: 1,500-2,249 hours	\$46.26	\$56.95	\$67.64
Apprentice: 2,250-2,999 hours	\$47.68	\$59.08	\$70.48
Apprentice: 3,000-3,749 hours	\$49.10	\$61.21	\$73.32
Apprentice: 3,750-4,499 hours	\$50.53	\$63.36	\$76.18
Apprentice: 4,500 hours	\$53.38	\$67.63	\$81.88
Apprentice: 750-1,499 hours	\$44.83	\$54.80	\$64.78

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.63
10th hour	\$67.63
Beyond 10 hours	\$67.63

Saturday

First 8 hours	\$67.63
9th hour	\$67.63
10th hour	\$67.63
Beyond 10 hours	\$67.63

Sunday/Holiday	\$81.88
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - 40 P	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$51.72	\$67.29	\$82.86
Apprentice: 0-749 hours	\$40.82	\$50.94	\$61.06
Apprentice: 1,500-2,249 hours	\$43.94	\$55.62	\$67.30
Apprentice: 2,250-2,999 hours	\$45.49	\$57.94	\$70.40
Apprentice: 3,000-3,749 hours	\$47.05	\$60.28	\$73.52
Apprentice: 3,750-4,499 hours	\$48.61	\$62.62	\$76.64
Apprentice: 4,500 hours	\$51.72	\$67.29	\$82.86
Apprentice: 750-1,499 hours	\$42.38	\$53.28	\$64.18

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$67.29
10th hour	\$67.29
Beyond 10 hours	\$67.29

Saturday

First 8 hours	\$67.29
9th hour	\$67.29
10th hour	\$67.29
Beyond 10 hours	\$67.29

Sunday/Holiday	\$82.86
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - 7 P	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$46.60	\$59.14	\$71.68
Apprentice: 0-749 hours	\$37.82	\$45.97	\$54.12
Apprentice: 1,500-2,249 hours	\$40.33	\$49.74	\$59.14
Apprentice: 2,250-2,999 hours	\$41.58	\$51.61	\$61.64
Apprentice: 3,000-3,749 hours	\$42.84	\$53.50	\$64.16
Apprentice: 3,750-4,499 hours	\$44.09	\$55.38	\$66.66
Apprentice: 4,500 hours	\$46.60	\$59.14	\$71.68
Apprentice: 750-1,499 hours	\$39.08	\$47.86	\$56.64

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$59.14
10th hour	\$59.14
Beyond 10 hours	\$59.14

Saturday

First 8 hours	\$59.14
9th hour	\$59.14
10th hour	\$59.14
Beyond 10 hours	\$59.14

Sunday/Holiday	\$71.68
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - P-G	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$42.99	\$56.74	\$70.48
Apprentice: 1st Year	\$33.37	\$42.30	\$51.24
Apprentice: 2nd Year	\$36.12	\$46.43	\$56.74
Apprentice: 3rd Year	\$38.87	\$50.56	\$62.24

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.74
10th hour	\$56.74
Beyond 10 hours	\$56.74

Saturday

First 8 hours	\$56.74
9th hour	\$56.74
10th hour	\$56.74
Beyond 10 hours	\$56.74

Sunday/Holiday	\$70.48
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - P-L	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$45.00	\$59.93	\$74.85
Apprentice: 1st Year	\$34.55	\$44.25	\$53.95
Apprentice: 2nd Year	\$37.54	\$48.73	\$59.93
Apprentice: 3rd Year	\$40.52	\$53.21	\$65.89

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$59.93
10th hour	\$59.93
Beyond 10 hours	\$59.93

Saturday

First 8 hours	\$59.93
9th hour	\$59.93
10th hour	\$59.93
Beyond 10 hours	\$59.93

Sunday/Holiday	\$74.85
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - P-S	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$46.28	\$61.67	\$77.06
Apprentice: 1st Year	\$35.51	\$45.52	\$55.52
Apprentice: 2nd Year	\$38.58	\$50.12	\$61.66
Apprentice: 3rd Year	\$41.66	\$54.74	\$67.82

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$61.67
10th hour	\$61.67
Beyond 10 hours	\$61.67

Saturday

First 8 hours	\$61.67
9th hour	\$61.67
10th hour	\$61.67
Beyond 10 hours	\$61.67

Sunday/Holiday	\$77.06
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - P-TC	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$41.14	\$54.19	\$67.23
Apprentice: 1st Year	\$32.01	\$40.49	\$48.97
Apprentice: 2nd Year	\$34.62	\$44.41	\$54.19
Apprentice: 3rd Year	\$37.23	\$48.32	\$59.41

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$54.19
10th hour	\$54.19
Beyond 10 hours	\$54.19

Saturday

First 8 hours	\$54.19
9th hour	\$54.19
10th hour	\$54.19
Beyond 10 hours	\$54.19

Sunday/Holiday	\$67.23
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Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plasterer - P-UP	Plasterer	05/10/2024

Classification Description: Plasterer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$45.79	\$60.94	\$76.08
Apprentice: 1st Year	\$35.19	\$45.04	\$54.88
Apprentice: 2nd Year	\$38.22	\$49.58	\$60.94
Apprentice: 3rd Year	\$41.25	\$54.12	\$67.00

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$60.94
10th hour	\$60.94
Beyond 10 hours	\$60.94
Saturday	
First 8 hours	\$60.94
9th hour	\$60.94
10th hour	\$60.94
Beyond 10 hours	\$60.94
Sunday/Holiday	
	\$76.08

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Plumber	Plumber	05/10/2024

Classification Description: Plumber

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.14	\$91.76	\$109.38
Apprentice: 1st Year	\$27.71	\$36.50	\$45.29
Apprentice: 2nd Year	\$31.66	\$41.44	\$51.22
Apprentice: 3rd Year	\$33.19	\$43.71	\$54.23

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$91.76
10th hour	\$91.76
Beyond 10 hours	\$109.38

Saturday

First 8 hours	\$91.76
9th hour	\$109.38
10th hour	\$109.38
Beyond 10 hours	\$109.38

Sunday/Holiday	\$109.38
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Roofer - WOM	Roofer	05/10/2024

Classification Description: Commercial Roofer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$62.82	\$79.68	\$96.53
Apprentice: Apprentice 1	\$48.74	\$58.55	\$68.37
Apprentice: Apprentice 2	\$49.25	\$59.32	\$69.39
Apprentice: Apprentice 3	\$50.76	\$61.59	\$72.41
Apprentice: Apprentice 4	\$52.26	\$63.83	\$75.41
Apprentice: Apprentice 5	\$53.77	\$66.10	\$78.43
Apprentice: Apprentice 6	\$55.18	\$68.21	\$81.25
Apprentice: Apprentice 7	\$56.79	\$70.63	\$84.47
Apprentice: Apprentice 8	\$58.27	\$72.85	\$87.43
Apprentice: new apprentice	\$48.68	\$58.47	\$68.25

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$79.68
10th hour	\$79.68
Beyond 10 hours	\$79.68
Saturday	
First 8 hours	\$79.68
9th hour	\$79.68
10th hour	\$79.68
Beyond 10 hours	\$79.68
Sunday/Holiday	
	\$96.53

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Sheet Metal Worker	Sheet Metal Worker	05/10/2024

Classification Description: Journeyman -

A 4 10 schedule may be worked, 4 consecutive days Monday thru Friday.

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$74.96	\$95.01	\$115.06
Apprentice: 1st & 2nd Periods	\$48.51	\$59.65	\$70.77
Apprentice: 3rd & 4th Periods	\$50.74	\$62.99	\$75.23
Apprentice: 5th & 6th Periods	\$52.96	\$66.32	\$79.67
Apprentice: 7th & 8th Periods	\$55.19	\$69.67	\$84.13

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$95.01
10th hour	\$95.01
Beyond 10 hours	\$115.06

Saturday

First 8 hours	\$95.01
9th hour	\$115.06
10th hour	\$115.06
Beyond 10 hours	\$115.06

Sunday/Holiday	\$115.06
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Sprinkler Fitter Journeyman	Sprinkler Fitter	05/10/2024

Classification Description: Sprinkler Fitter Journeyman -
 4 ten hour days allowed Monday-Friday
 Double time pay due after 12 hours worked M-F

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$78.57	\$102.66	\$126.74
Apprentice: 10th Period	\$69.91	\$87.12	\$104.33
Apprentice: 1st Period	\$31.91	\$40.00	\$48.09
Apprentice: 2nd Period	\$51.25	\$60.36	\$69.47
Apprentice: 3rd Period	\$53.58	\$63.71	\$73.83
Apprentice: 4th Period	\$55.91	\$67.04	\$78.17
Apprentice: 5th Period	\$58.25	\$70.40	\$82.55
Apprentice: 6th Period	\$60.58	\$73.73	\$86.89
Apprentice: 7th Period	\$62.91	\$77.08	\$91.24
Apprentice: 8th Period	\$65.25	\$80.44	\$95.62
Apprentice: 9th Period	\$67.58	\$83.78	\$99.98

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$102.66
10th hour	\$102.66
Beyond 10 hours	\$126.74
Saturday	
First 8 hours	\$102.66
9th hour	\$126.74
10th hour	\$126.74
Beyond 10 hours	\$126.74
Sunday/Holiday	
	\$126.74

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Marble and Terrazzo - KZ-Finisher	Tile, Marble and Terrazzo	05/10/2024

Classification Description: Tile Finisher

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$40.45	\$54.47	\$66.71
Apprentice: 1st Period	\$31.88	\$41.61	\$49.57
Apprentice: 2nd Period	\$33.10	\$43.44	\$52.01
Apprentice: 3rd Period	\$34.33	\$45.29	\$54.47
Apprentice: 4th Period	\$35.55	\$47.11	\$56.91
Apprentice: 5th Period	\$36.78	\$48.96	\$59.37
Apprentice: 6th Period	\$38.00	\$50.79	\$61.81

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$52.70
10th hour	\$52.70
Beyond 10 hours	\$52.70
Saturday	
First 8 hours	\$52.70
9th hour	\$52.70
10th hour	\$52.70
Beyond 10 hours	\$52.70
Sunday/Holiday	
	\$64.94

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Marble and Terrazzo - KZ-S-Setter	Tile, Marble and Terrazzo	05/10/2024

Classification Description: Tile Setter

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$43.40	\$56.03	\$68.66
Apprentice: 1st Period	\$34.56	\$42.77	\$50.98
Apprentice: 2nd Period	\$35.82	\$44.66	\$53.50
Apprentice: 3rd Period	\$37.08	\$46.55	\$56.02
Apprentice: 4th Period	\$38.35	\$48.46	\$58.56
Apprentice: 5th Period	\$39.61	\$50.34	\$61.08
Apprentice: 6th Period	\$40.87	\$52.24	\$63.60

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$56.03
10th hour	\$56.03
Beyond 10 hours	\$56.03
Saturday	
First 8 hours	\$56.03
9th hour	\$56.03
10th hour	\$56.03
Beyond 10 hours	\$56.03
Sunday/Holiday	
	\$68.66

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Marble and Terrazzo - KZ-T	Tile, Marble and Terrazzo	05/10/2024

Classification Description: Terrazzo Finisher

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$45.11	\$59.24	\$73.36
Apprentice: 1st Period	\$35.22	\$44.40	\$53.58
Apprentice: 2nd Period	\$36.63	\$46.52	\$56.40
Apprentice: 3rd Period	\$38.05	\$48.64	\$59.24
Apprentice: 4th Period	\$39.46	\$50.76	\$62.06
Apprentice: 5th Period	\$40.87	\$52.88	\$64.88
Apprentice: 6th Period	\$42.28	\$54.99	\$67.70

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$59.24
10th hour	\$59.24
Beyond 10 hours	\$59.24
Saturday	
First 8 hours	\$59.24
9th hour	\$59.24
10th hour	\$59.24
Beyond 10 hours	\$59.24
Sunday/Holiday	
	\$73.36

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Marble and Terrazzo Finisher	Tile, Marble and Terrazzo	05/10/2024

Classification Description: Tile, Marble and Terrazzo Finisher

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$51.67	\$66.51	\$81.34
Apprentice: 1st Period	\$34.76	\$44.41	\$54.05
Apprentice: 2nd Period	\$36.24	\$46.63	\$57.01
Apprentice: 3rd Period	\$37.72	\$48.85	\$59.97
Apprentice: 4th Period	\$39.21	\$51.08	\$62.95
Apprentice: 5th Period	\$40.69	\$53.30	\$65.91
Apprentice: 6th Period	\$42.17	\$55.52	\$68.87

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$66.51
10th hour	\$66.51
Beyond 10 hours	\$81.34
Saturday	
First 8 hours	\$66.51
9th hour	\$81.34
10th hour	\$81.34
Beyond 10 hours	\$81.34
Sunday/Holiday	
	\$81.34

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Marble Terrazzo Setter	Tile, Marble and Terrazzo	05/10/2024

Classification Description: Tile, Marble Terrazzo Setter

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$58.80	\$77.20	\$95.60
Apprentice: 1st Period	\$38.77	\$49.81	\$60.85
Apprentice: 2nd Period	\$40.61	\$52.57	\$64.53
Apprentice: 3rd Period	\$42.45	\$55.33	\$68.21
Apprentice: 4th Period	\$44.29	\$58.09	\$71.89
Apprentice: 5th Period	\$46.13	\$60.85	\$75.57
Apprentice: 6th Period	\$47.97	\$63.61	\$79.25
Apprentice: 7th Period	\$49.81	\$66.37	\$82.93
Apprentice: 8th Period	\$51.65	\$69.13	\$86.61

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$77.20
10th hour	\$77.20
Beyond 10 hours	\$95.60
Saturday	
First 8 hours	\$77.20
9th hour	\$95.60
10th hour	\$95.60
Beyond 10 hours	\$95.60
Sunday/Holiday	
	\$95.60

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Terrazzo and Mosaic Finisher	Tile, Terrazzo and Mosaic Finisher	05/10/2024

Classification Description: Tile, Terrazzo and Mosaic Finisher

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$42.34	\$54.17	\$65.99
Apprentice: 1st Period	\$35.25	\$43.53	\$51.81
Apprentice: 2nd Period	\$36.43	\$45.30	\$54.17
Apprentice: 3rd Period	\$37.61	\$47.07	\$56.53
Apprentice: 4th Period	\$38.79	\$48.84	\$58.89
Apprentice: 5th Period	\$39.97	\$50.61	\$61.25
Apprentice: 6th Period	\$41.16	\$52.39	\$63.63

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$54.17
10th hour	\$54.17
Beyond 10 hours	\$54.17
Saturday	
First 8 hours	\$54.17
9th hour	\$54.17
10th hour	\$54.17
Beyond 10 hours	\$54.17
Sunday/Holiday	
	\$65.99

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tile, Terrazzo and Mosaic Setters	Tile, Terrazzo and Mosaic Setters	05/10/2024

Classification Description: Tile, Terrazzo and Mosaic Setters

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$48.48	\$62.11	\$75.73
Apprentice: 1st Period	\$40.31	\$49.85	\$59.39
Apprentice: 2nd Period	\$41.67	\$51.89	\$62.11
Apprentice: 3rd Period	\$43.03	\$53.93	\$64.83
Apprentice: 4th Period	\$44.39	\$55.97	\$67.55
Apprentice: 5th Period	\$45.75	\$58.01	\$70.27
Apprentice: 6th Period	\$47.12	\$60.07	\$73.01

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$62.11
10th hour	\$62.11
Beyond 10 hours	\$62.11
Saturday	
First 8 hours	\$62.11
9th hour	\$62.11
10th hour	\$62.11
Beyond 10 hours	\$62.11
Sunday/Holiday	
	\$75.73

Four 10-hour days allowed? - No

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Tower Technician	Tower Technician	05/13/2024

Classification Description:

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$67.89	\$98.24	\$128.58

Overtime Provisions

Over 8-hour day/40-hour week	
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Saturday	
First 8 hours	\$98.24
9th hour	\$98.24
10th hour	\$98.24
Beyond 10 hours	\$98.24
Sunday/Holiday	
	\$128.58

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

ONLY due to inclement weather or customer requirements may Friday be used as a make up day if the normal scheduled work week was interrupted and time lost of five (5) hours or more was incurred by workmen covered under the terms of the 6-17-C/6-876-T agreement.

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB1	Truck Driver	05/10/2024

Classification Description: on all trucks of 8 cubic yard capacity or less (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semis, euclid type equipment, double bottoms and low boys)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$53.95	\$70.30	\$86.64

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$69.32
10th hour	\$69.32
Beyond 10 hours	\$69.32

Saturday

First 8 hours	\$69.32
9th hour	\$69.32
10th hour	\$69.32
Beyond 10 hours	\$69.32

Sunday/Holiday	\$84.69
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB1A	Truck Driver	05/10/2024

Classification Description: of all trucks of 8 cubic yard capacity or over semi, tractor trailer

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$54.10	\$70.52	\$86.94

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$69.55
10th hour	\$69.55
Beyond 10 hours	\$69.55

Saturday

First 8 hours	\$69.55
9th hour	\$69.55
10th hour	\$69.55
Beyond 10 hours	\$69.55

Sunday/Holiday	\$84.99
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB1B	Truck Driver	05/10/2024

Classification Description: on euclid type equipment, Pole drier, lowboy, doubles, fuel, bus, water

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$54.20	\$69.70	\$85.19

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$69.70
10th hour	\$69.70
Beyond 10 hours	\$69.70

Saturday

First 8 hours	\$69.70
9th hour	\$69.70
10th hour	\$69.70
Beyond 10 hours	\$69.70

Sunday/Holiday	\$85.19
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - Yes

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB2	Truck Driver	05/10/2024

Classification Description: of all trucks of 8 cubic yd capacity or over

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.10	\$48.81	\$49.80

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.55
10th hour	\$56.55
Beyond 10 hours	\$56.55

Saturday

First 8 hours	\$56.55
9th hour	\$56.55
10th hour	\$56.55
Beyond 10 hours	\$56.55

Sunday/Holiday

\$56.55

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB2A	Truck Driver	05/10/2024

Classification Description: of all trucks of 8 cubic yard capacity or less (except dump trucks of 8 cubic yard capacity or over, tandem axle trucks, transit mix and semis, euclid type equipment, double bottoms and low boys)

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.00	\$48.66	\$49.60

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.40
10th hour	\$56.40
Beyond 10 hours	\$56.40

Saturday

First 8 hours	\$56.40
9th hour	\$56.40
10th hour	\$56.40
Beyond 10 hours	\$56.40

Sunday/Holiday

\$56.40

Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No

Prevailing Wage Rates for State Funded Projects

Official Rate Schedule

Wayne

Classification Name	Category	Last Updated
Truck Driver - RB2B	Truck Driver	05/10/2024

Classification Description: on euclid type equipment

Wage Rates	Straight Time	Time and a Half	Double Time
Total Hourly Wage	\$44.25	\$49.04	\$0.00

Overtime Provisions

Over 8-hour day/40-hour week

9th hour	\$56.78
10th hour	\$56.78
Beyond 10 hours	\$56.78

Saturday

First 8 hours	\$56.78
9th hour	\$56.78
10th hour	\$56.78
Beyond 10 hours	\$56.78

Sunday/Holiday	\$56.78
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Four 10-hour days allowed? - Yes

Make Up Day Allowed? - No



STATE OF MICHIGAN
Informational Sheet: Prevailing Wages on State Projects

General Information Regarding Fringe Benefits

Certain fringe benefits **may** be credited toward the payment of the Prevailing Wage Rate:

- If a fringe benefit is paid directly to a construction mechanic
- If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

Vacation	40 hours X \$14.00 per hour = \$560/2080 =	\$0.27
Dental insurance	\$31.07 monthly premium X 12 mos. = \$372.84 /2080 =	\$.18
Vision insurance	\$5.38 monthly premium X 12 mos. = \$64.56/2080 =	\$.03
Health insurance	\$230.00 monthly premium X 12 mos. = \$2,760.00/2080 =	\$1.33
Life insurance	\$27.04 monthly premium X 12 mos. = \$324.48/2080 =	\$.16
Tuition	\$500.00 annual cost/2080 =	\$.24
Bonus	4 quarterly bonus/year x \$250 = \$1000.00/2080 =	\$.48
401k Employer Contribution	\$2000.00 total annual contribution/2080 =	\$.96
Total Hourly Credit		\$3.65

Other examples of the types of fringe benefits allowed:

- Sick pay
- Holiday pay
- Accidental Death & Dismemberment insurance premiums

The following are examples of items that **will not** be credited toward the payment of the Prevailing Wage Rate

- Legally required payments, such as:
 - Unemployment Insurance payments
 - Workers' Compensation Insurance payments
 - FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
 - Clothing allowance or reimbursement
 - Uniform allowance or reimbursement
 - Gas allowance or reimbursement
 - Travel time or payment
 - Meals or lodging allowance or reimbursement
 - Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
 - Industry advancement funds
 - Financial or material loans



STATE OF MICHIGAN
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OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

- Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

	Monday thru Friday	Saturday	Sunday & Holidays	Four 10s
First 8 Hours		4		
9th Hour	1	5	8	9
10th Hour	2	6		
Over 10 hours	3	7		

Overtime for Monday thru Friday after 8 hours:

the 1st character is for time worked in the 9th hour (8.1 - 9 hours)
the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)
the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:

the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)
the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)
the 6th character is for time worked in the 10th hour (9.1 - 10 hours)
the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays

The 8th character is for time worked on Sunday or on a holiday

Four Ten Hour Days

The 9th character indicates if an optional 4-day 10-hour per day workweek can be worked **between Monday and Friday without paying overtime after 8 hours worked, unless otherwise noted in the rate schedule. To utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.**

- Overtime Indicators Used in the Overtime Provision:

H - means TIME AND ONE-HALF due
X - means TIME AND ONE-HALF due after 40 HOURS worked
D - means DOUBLE PAY due
Y - means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked
N - means NO an optional 4-day 10-hour per day workweek *cannot* be worked without paying overtime after 8 hours worked

- EXAMPLES:

HHHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (characters 1 - 3); for all hours worked on Saturday, 1½ rate is due (characters 4 - 7). Work done on Sundays or holidays must be paid double time (character 8). The N (character 9) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHDY - This example shows that the 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (characters 1-3); for hours worked on Saturday, 1½ rate is due (characters 4 – 7). Work done on Sundays or holidays must be paid double time (character 8). The Y (character 9) indicates that 4 ten-hour days is an acceptable alternative workweek.



STATE OF MICHIGAN
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ENGINEERS - CLASSES OF EQUIPMENT LIST

UNDERGROUND ENGINEERS

CLASS I

Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8' digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver, Hydro Excavator.

CLASS II

Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6" discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller), Vac Truck.

CLASS III

Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, ½ yard or larger), Elevator (other than passenger), Maintenance Man, Mechanic Helper, Pump (2 or more 4" up to 6" discharge, gas or diesel powered, excluding submersible pump), Pumpcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

CLASS IV

Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4", exclude submersible), Pumps (2 or more up to 4" discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6' wide or over), Trencher (service) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.

HAZARDOUS WASTE ABATEMENT ENGINEERS

CLASS I

Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Hydro Excavator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.

CLASS II

Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, Water Wagon and Welding Machine.



STATE OF MICHIGAN
Informational Sheet: Prevailing Wages on State Projects

CARPENTER CRAFT JURISDICTION

Michigan recognizes the Carpenters for any and all work related to weatherization that has historically been the work of the Carpenter. This work shall include, but not be limited to: all work defined under the Federal Weatherization Assistance Program.

The jurisdiction of Carpenters, as to all work that has historically and traditionally been performed consisting of the milling, fashioning, joining, assembling, erecting, fastening or dismantling of all materials of wood, plastic, metal, fiber, cork, or composition and all other substitute materials, as well as the handling, cleaning, erecting, installing and dismantling of all machinery, equipment and all materials used by Carpenters.

The jurisdiction, therefore, extends over the following divisions and subdivisions of the trade: Carpenters and Joiners, Millwrights, Pile Drivers, Bridge, Dock and Wharf Carpenters, Underpinners, Timbermen, and Core-drillers, Shipwrights, Boat Builders, Ship-hand, Stair-Builders, Millmen, Wood and Resilient Floor Decorators, Floor Finishers, Carpet-layers, Shinglers, Siders, Insulators, Acoustic and Drywall Applicators, Sharers and House Movers, Loggers, Lumber and Sawmill Workers, Reed and Rattan Workers, Shingle Weavers, Casket and Coffin Makers, Railroad Carpenters and Car Builders, regardless of material used and all those engaged in the operation of woodworking or other machinery required in fashioning, milling or manufacturing of products used in the trade, and the handling, erecting and installing materials on any of the above divisions or sub-divisions, burning, welding and rigging incidental to the trade. When the term "Carpenter and Joiner" is used, it shall mean all the subdivisions of the trade. The trade autonomy of Carpenters therefore extends over the divisions and subdivisions of the trade, which are set forth as follows:

- (a) The framing, erecting and prefabrication of roofs, partitions, floors and other parts of buildings of wood, metal, plastic or other substitutes; application of all metal flashing used for hips, valleys and chimneys; the erection of Stran Steel section or its equal. The building and setting of all forms and centers for brick and masonry. The fabrication and erection of all forms for concrete and decking, the dismantling of same (as per International Agreement) when they are to be re-used on the job or stored for re-use. The cutting and handling of all falsework for fireproofing and slabs. Where power is used in the setting or dismantling of forms, all signaling and handling shall be done by carpenters. The setting of templates for anchor bolts for structural members and for machinery, and the placing, leveling and bracing of these bolts. All framing in connection with the setting or metal columns. The setting of all bulkheads, footing forms and the setting of and fabrication of, screeds and stakes for concrete and mastic floors where the screed is notched or fitted, or made up of more than one member. The making of forms for concrete block, bulkheads, figures, posts, rails, balusters and ornaments, etc.
- (b) The handling and erecting of rough material and drywall, the handling, assembly, setting and leveling of all fixtures, display cases, all furniture such as tables, chairs, desks, coat racks, etc., all de-mountable or moveable partitions such as Von wall, E Wall, Steel Case, Herman Miller, Haworth, American Seating, Westinghouse, Lazy Boy, rosewood, etc. All rebuilding, remodeling and setting up of all kinds of partitions, finished lumber, metal and plastic trim to be erected by Carpenters shall be handled from the truck or vehicle delivering same to the job by Carpenters.



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CARPENTER CRAFT JURISDICTION

- (c) The building and moving of all scaffolding runways and staging where carpenters' tools are used, the building from the ground up of all scaffolds over fourteen (14) feet in height including metal and specially designed scaffolding. The building and construction of all hoists and derricks made of wood; the making of mortar boards, boxes, trestles, all shoring, razing and moving of buildings. Lift type trucks are to be considered a tool of the trade. Metal siding and metal roofing fall within the scope of jurisdiction for the carpenters.
- (d) The cutting or framing and fireproofing of the openings for pipes, conduits, ducts, etc., where they pass through floors, partitions, walls, roofs or fixtures composed in whole or in part of wood. The laying out of making and installation of all inserts and sleeves for pipes, ducts, etc., where carpenters' tools and knowledge are required. The making and installing of all wooden meter boards, crippling and backing for fixtures. The welding of studs and other fastenings to receive material being applied by carpenters.
- (e) The installation of all grounds, furring or stripping, ceilings and sidewalks, application of all types of shingling and siding, etc.
- (f) The installation of all interior and exterior trim or finish of wood, aluminum, kalamein, hollow or extruded metal, plastic, doors, transoms, thresholds, mullions and windows. The setting of jambs, bucks, window frames of wood or metal where braces or wedges are used. The installation of all wood, metal or other substitutes of casing, molding, chair rail, wainscoting, china closets, base of mop boards, wardrobes, metal partitions as per National Decisions or specific agreements, etc. The complete laying out, fabrication and erection of stairs. The making and erecting of all fixtures, cabinets, shelving, racks, louvers, etc. The mortising and application of all hardware in connection with our work. The sanding and refinishing of all wood, cork or composition floors to be sanded or scraped, filled, sized and buffed, either by hand or power machines. The assembling and setting of all seats in theaters, halls, churches, schools, auditorium, grandstands and other buildings. All bowling alley work.
- (g) The manufacture, fabrication and installation of all screens, storm sash, storm doors and garage doors; the installation of wood, canvas, plastic or metal awnings or eye shades, door shelters, jalousies, etc. The laying of wood, wood block and wood composition in floors.
- (h) The installation of all materials used in drywall construction, such as plasterboard, all types of asbestos boards, transite and other composition board. The application of all material which serves as base for acoustic tile, except plaster. All acoustical applications as per National Agreement or specific agreement.
- (i) The building and dismantling of all barricades, hand rails, guard rails, partitions and temporary partitions. The erection and dismantling of all temporary housing on construction projects.
- (j) The installation of rock wool, cork and other insulation material used for sound or weatherproofing. The removal of caulking and placing of staff bead and brick mold and all Oakum caulking, substitutes, etc., and all caulking in connection with carpentry work.
- (k) The installation of all chalk boards/marker boards.



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CARPENTER CRAFT JURISDICTION

- (l) The operation of all hand operated winches used to raise wooden structures.
- (m) The erection of porcelain enameled panels and siding.
- (n) The unloading and distribution of all furnished, prefabricated and built-up sections such as door bucks, window frames, cupboards, cabinets, store fixtures, counters and show cases or comparably finished or prefabricated materials, to the job sites or points of installation as used in the construction, alteration and remodeling industry.
- (o) The handling of doors, metal, wood or composite, partitions and other finished bulk materials used for trim from the point of delivery.
- (p) All processing of these materials and handling after processing.
- (q) The making up of panels and fitting them into walls, all bracing and securing, all removal of panels from the casting including all braces, walers, hairpins, etc.
- (r) The handling and setting of all metal pans and sections from the stock piles of reasonable distance as required by job needs shall be performed by carpenters. The stripping of such metal pans, panels or sections is to be performed by carpenters.
- (s) The sharpening of all carpenter hand or power tools, or those used by carpenters.
- (t) The layout, fabrication, assembling of and erection and dismantling of all displays made of wood, metal, plastic, composition board or any substitute material; the covering of same with any type of material, the crating and un-crating, the handling from the point of unloading and back to the point of loading of all displays and other materials or components.
- (u) The same shall apply to all other necessary component parts used for display purposes such as turntables, platforms, identification towers and fixtures, regardless of how constructed, assembled or erected or dismantled.
- (v) The make-up, handling, cutting and sewing of all materials used in buntings, flags, banners, decorative paper, fabrics and similar materials used in the display decorative industry for draperies and back drops. The decorative framing of trucks, trailers and autos used as floats or moving displays. The slatting of walls to hand fabrics and other decorative materials, drilling of all holes to accommodate such installations. Setting up and removal of booths constructed of steel or aluminum tubing as stanchions, railings, etc., handling and placing of furniture, appliances, etc., which are being used to complete the booth at the request of the exhibitor. Fabricating and application of leather, plastic and other like materials used for covering of booths. The handling of all materials, fabricating of same. The loading and unloading, erecting and assembling at the exhibit of show area, also in or out of storage when used in booth decorations.



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CARPENTER CRAFT JURISDICTION

- (w) A display shall be construed as any exhibit or medium of advertising, open to private or public showing, which is constructed of wood, metal, plastic or any other substitute to accomplish the objectives of advertising or displaying.
- (x) Handling, fitting, draping, measuring and installation of fixtures and other hardwares for draperies, all manner of making, measuring, repairing, sizing, hanging and installation of necessary fixtures and hardware for shades and Venetian blinds.
- (y) Work consisting of cutting and/or forming of all materials in preparation for installing of floors, walls and ceilings; the installation of all resilient floor and base; wall and ceiling materials to include cork, linoleum, prefabricated, laminated, rubber, asphalt, vinyl, metal, plastic, seamless floors and all other similar materials in sheet, interlocking liquid or tile form; the installation of all artificial turf, the installation, cutting and/or fitting of carpets; installation of padding, matting, linen crash and all preformed resilient floor coverings; the fitting of all devices for the attachment of carpet and other floor, wall and ceiling coverings; track sewing of carpets, drilling of holes for sockets and pins, putting in dowels and slats; and all metal trimmings used; the installation of all underlayments, sealants in preparation of floors, walls and ceilings, the unloading and handling of all materials to be installed and the removal of all materials in preparing floors when contracted for by the employer, shall be done only by employees covered under this Agreement.
- (z) The installation of all sink-tops and cabinets, to include all metal trim and covering for same. All cork, linoleum, congo-wall, linewall, veos tile, plexiglass, vinawall tile, composition tile, plastic tile, aluminum tile and rubber in sheets or tile form and the application thereof. All bolta-wall and bolta-wall tile and similar products.
- (aa) The handling and placing of all pictures and frames and the assembly of bed frames and accessories. The hanging and placing of all signage.
- (bb) The installation of all framework partitions and trim materials for toilets and bathrooms made of wood, metal, plastics or composition materials; fastening of all wooden, plastic or composition cleats to iron or any other material for accessories.
- (cc) The erection of cooling towers and tanks.
- (dd) The setting, lining, leveling and bracing of all embedded plates, rails and angles. The setting of all stay in place forms.
- (ee) Environmental: Clean room, any type of environmental chamber, walk in refrigerated coolers and all refrigerated rooms or buildings.



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CARPENTER CRAFT JURISDICTION

PILE DRIVING AND CAISSON DRILLING

(ff) All unloading, handling, signaling and driving of piles, whether wood, steel, pipe, beam pile, composite, concrete or molded in place, wood and steel sheeting, cofferdam work, trestle work, dock work, floating derricks, caisson work, foundation work, bridge work, whether old or new, crib work, pipe line work and submarine work. Cutting of all wood, steel or concrete pile, whether by machine or hand; welding and cutting, peeling, and heading of all wood pile, steel sheeting and wood sheeting. The erecting and dismantling of all pile driving rigs, also derricks whether on land or water; also the moving, shoring and underpinning of all buildings. The loading and unloading of all derricks, cranes and pile driving materials. The tending, maintenance and operation of all valves pertaining to the operation of driving of pile. All diving and tending essential to the completion of jurisdictional claims.

All work done in the established yards of the Company and all work not enumerated above, shall be handled and manned as the Employer decides.

The pile driver will unload all material shipped in by rail from the point that the rail car is spotted.

All cleaning and preparation of all piling prior to driving.

The welding and attachment of all boot plates, pile points, splice plates, connectors, rock crosses, driving crosses, driving rigs, point reinforcements and overboots.

The construction, reconstruction, repair, alteration, demolition and partial or complete removal of all marine work including, but not limited to, docks, piers, wharves, quays, jetties, cribs, causeways, breakwaters, lighthouses and permanent buoys, etc. (mixing and placing of concrete excepted).

The driving and pulling of all wood, steel and concrete foundation piles and sheet piling.

The heading, pointing, splicing, cutting and welding of all piles.

The placing of all wales, bolts, studs, lagging, rods and washers including the cutting, drilling, boring or breaking of all holes or openings thereof.

The removal of all materials and/or obstructions of any nature (rip-rap included) that retard or interfere with the driving of piles or with the placing of wales, bolts and rods.



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CARPENTER CRAFT JURISDICTION

This is to be subject to the discretion of the contractor who may choose to use blasting specialists or other demolition specialists.

The handling on the job of all materials used in the work.

The manning of all floating equipment (towing equipment excepted) engaged in the work enumerated, including deck engines, except machinery manned by Operating Engineers.

The placing of all rip-rap, fill stone, bedding stone, cover stone and concrete blocks in connection with marine construction. Work normally performed by Employers, such as soil tests, shoring, underpinning of buildings, cribbing, driving of sheet piling, marine divers, tenders, underwater construction workers and similar operations shall continue to be included in the jurisdiction of this Agreement.

All burning, cutting, welding and fabrication of pipe, H-beams, sheet pile (metal or wood), done on the job site or in the yard of the Employer shall be done by pile drivers. The driving of bearing piles, sheet piling with heavy equipment, caissons, pile caps, auger drilling and boring, the setting up for load testing for any type of piling, all layout and spotting for piling, caisson and boring work, all earth retention, ditch boarding, installing tiebacks.

ASBESTOS ABATEMENT CARPENTERS

(gg) All erection and maintenance of barriers and partitions used in the removing of asbestos or any abatement work. The abatement of any materials previously installed by the carpenter such as transite, ceiling and floor tiles. All operating and maintaining of current equipment used in any abatement work.



STATE OF MICHIGAN
Informational Sheet: Prevailing Wages on State Projects

ELECTRICIAN – SOUND AND COMMUNICATION / DATA/ VOICE JURISDICTION

The installation, testing, service and maintenance, of systems which utilize the transmission and/or transference of voice, sound, vision or digital for commercial, education, security and entertainment purposes for the following: TV monitoring and surveillance, CATV and CCTV, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, radio page, school intercom and sound, burglar alarms, low voltage fire alarm systems, low voltage master clock systems, distributed antenna systems (DAS), IP data networks, and all surface-mounted (non-power) telecommunications wiremold. Shall additionally include the installation of all raceway systems of unlimited length in telecommunications rooms, entrance facilities, equipment rooms, and similar areas. Energy management systems. Security systems; perimeter, vibration, card access, access control and sonar/infrared monitoring equipment. Communications systems that transmit or receive information and/or control systems that are intrinsic to the above listed systems; SCADA (Supervisory Control and Data Acquisition), PCM (Pulse Code Modulation), Digital Data Systems, Broadband and Baseband and Carriers, POS (Point of Sale systems), VSAT Data Systems, RF and Remote Control Systems, Fiber Optic Data Systems and Voice and Data Infrastructure and Backbone.



STATE OF MICHIGAN

Wage and Hour Division
PO Box 30476
Lansing, MI 48909
517-284-7800

Informational Sheet: Prevailing Wages on State Funded Projects

REQUIREMENTS

Effective February 13, 2024

The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to workers on construction projects that are financed or financially supported by the state. Prevailing rates compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. While the prevailing wage rates are compiled through surveys of collectively bargained agreements, a collective bargaining agreement is not required for contractors to be on or be awarded state projects. The prevailing rate schedule provides an hourly rate which includes wage and fringe benefit totals for designated construction mechanic classifications. The overtime rates also include wage and fringe benefit totals. Please pay special attention to the overtime and premium pay requirements. The prevailing wage is satisfied when wages plus fringe benefits are equal to or greater than the required rate.

State of Michigan responsibilities:

- The department establishes the prevailing rate for each classification of construction mechanic requested by the contracting agents prior to contracts being let out for bid on a state project.

DTMB responsibilities

- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a re-determination of rates must be requested by the contracting agents.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, ***must*** be obtained ***prior*** to contracts being let out for bid on a state project.

Contractor responsibilities:

- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic. This record shall be available for reasonable inspection by DTMB or the department.
- Each contractor or subcontractor is liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- A construction mechanic *shall only* be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

Enforcement:

A person who has information of an alleged prevailing wage violation on a prevailing wage project may file a complaint with the State of Michigan. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with contractual requirements, the Contracting Agent may consider the Contractor to be in material breach of the contract and may terminate the contract for cause at the sole discretion. There are also civil penalties for failure to be in compliance with Act 10. View the entire text of Act 10 of 2023 at michigan.gov/wagehour.

APPENDIX VI
REMEDIAL ACTION WORKPLAN



Remedial Action Work Plan

Former Gasoline Station
12161 Dexter Avenue, Detroit, Michigan
Facility ID No. 10000607

PREPARED FOR Michigan Department of Environment, Great Lakes, and Energy
Remediation and Redevelopment Division
27700 Donald Court
Warren, Michigan 48092

DTMB FILE # 761/24161.IND

AKT PEERLESS PROJECT # 18992f

DATE May 20, 2024

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APPENDICES

Appendix A.....	Previous Investigations
Appendix B.....	Historical Record Sources

REMEDIAL ACTION WORK PLAN

12161 Dexter Avenue, Detroit, Michigan

DTMB File No. 761/24161.IND

AKT Peerless Project No. 18992f

1.0 Introduction

AKT Peerless (i.e., the Professional) has prepared this Remedial Action Work Plan (RAWP) which summarizes remedial actions to be conducted at a former gasoline filling station located at 12161 Dexter Avenue in Detroit, Wayne County, Michigan (the Site). The remedial actions are being undertaken primarily in response to a petroleum release from leaking underground storage tanks (USTs) at the Site (Facility ID 10000607). This scope of work will be completed under AKT Peerless' 2023 Environmental Indefinite Scope Indefinite Delivery (ISID) Contract No. 921 with the Michigan Department of Technology, Management, and Budget (DTBM) under the direction of the Michigan Department of Environment, Great Lakes, and Energy (EGLE).

AKT Peerless will prepare and submit a right-of-entry (ROE) permit application to the City of Detroit to access the Site. AKT Peerless will prepare and submit an access license request for the north adjoining property (3707 Richton) in the event excavation needs to extend beyond the Site's property boundaries.

This north adjoining property is not owned by the City, it is owned by the Detroit Land Bank Authority.

1.1 Project Objectives

EGLE has established the following objectives for this project:

- Removal and disposal improvements necessary to remove contamination from the open leaking UST (LUST) release, including removal of concrete aprons/concrete curbing.
- Removal of abandoned UST systems including tanks, piping, fill ports, dispenser island, etc. if encountered.
- Removal and proper disposal of contaminated soils, up to, but not beneath roadway and not within right-of-way utility corridors.
- Removal and proper disposal of contaminated groundwater, if encountered, from the excavation.
- Collection of verification soil samples.
- Backfilling and compacting the excavation with certified clean fill to existing grade, covered with topsoil from an approved source, and seeding with grass or other material as determined in consultation with EGLE and the property owner.
- Replacement of sidewalks and other public infrastructure if damaged by site remedial activities.
- Replacement of any deteriorated or damaged sidewalks if present on the site property.
- Restoration of the remaining portion of the site with grass seeding and repair of any damage to the public infrastructure or right-of-way.

1.2 Project Management

Corrective actions described within this RAWP will be conducted under the oversight of Ms. Julie Barton, a Senior Project Manager for AKT Peerless who is experienced in the completion of LUST investigations and Part 213 compliance related activities. Ms. Barton will serve as the primary contact between the State Project Manager (SPM) and AKT Peerless personnel and any subcontractors. Ms. Barton will track the project scope and budget to ensure compliance with this work plan and the objectives of the EGLE Remediation and Redevelopment Division (RRD). The SPM for the project is Mr. Steven Moorhead.

2.0 Site Background and Description

2.1 Location of Site

The Site is located in the northeast ¼ of Section 27 in Detroit (T.01S./R.11E.), Wayne County, Michigan. The Site consists of one parcel (Parcel No. 14006225.) that is approximately 0.26 acres and is located on the northwest corner of Dexter Avenue and Monterey Avenue. Refer to Figure 1 for a topographic location map and Figure 2 for a site map.

2.2 Current and Historical Use of Site

The Site consisted of undeveloped land from at least 1926 until between 1935 and 1940, when it was improved with a gasoline service station. The northern portion of the building was used for automobile servicing and the southern portion was a filling station. Three gasoline tanks were depicted on the 1940 through 1961 Sanborn maps. The service station operated until sometime between 1962 and 1967. The northern portion of the building was converted into a storefront and was occupied by a produce company in 1967, an alarm company in 1972, and, according to city directory listings, was vacant by 1977. Between 1993 and 1997, the building was razed. Currently, the Site is undeveloped land covered with grass.

2.3 Historical Summary and Previous Investigation Activities

The following previous environmental investigations were utilized to prepare this RAWP:

- Third-party historical resources (i.e., city directories, Sanborn fire insurance maps, aerial photographs, and topographic maps)
- SME February 2023 Environmental Expanded Triage

In December 2022, SME conducted a subsurface investigation on behalf of EGLE under their Expanded Triage Program. The subsurface investigation included a geophysical survey, the advancement of 15 soil borings, and the collection of 30 soil samples for laboratory analysis of VOCs and/or PNAs.

The geophysical survey did not identify anomalies indicative of USTs; however, anomalies consistent with a metallic object, building foundation, and utilities were noted. In addition, petroleum-contaminated soil was identified at concentrations exceeding residential Risk-Based Screening Levels (RBSLs) for Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP), as well as the residential Volatilization to Indoor Air Pathway (VIAP) screening levels.

Refer to Figure 2 for a map depicting the locations of the identified anomalies and soil boring locations. Refer to Figure 3 for a site map with previous analytical results. Refer to **Appendix A** for a copy of the previous report.

3.0 Scope of Work – Remedial Action

Based on a project description provided by the SPM, the following tasks have been identified to achieve the overall project objective.

- Task 1 – Initial EGLE Kickoff Meeting and Project Management
- Task 2 – Gather EGLE Files and Historical Documentation
- Task 3 – Develop Remedial Action Work Plan and Site-Specific Health & Safety Plan (SSHASP)
- Task 4 – Prepare Bid Specifications and Solicit Bids
- Task 5 – Trade Contractor Oversight/Completion of Remedial Activities
- Task 6 – Complete Summary Report (Technical Memorandum or Closure Report)

The following subsections describe each task, procedures and methods, and objectives.

3.1 Task 1: Initial EGLE Kickoff Meeting and Project Management

Project administration activities will be conducted by Ms. Barton and will include communication with the SPM, work plan development, oversight and management of field investigation activities, monthly invoicing, and other project management activities. Weekly progress reports will be provided to the SPM, which will include the activities completed during that week and a breakdown of the status of the project budget.

3.2 Task 2: Gather EGLE Files and Historical Documentation

EGLE has requested the Professional gather EGLE files and historical Sanborn maps and aerial photographs for the Site. The Professional has completed this task to support development of this RAWP and the historical summary in section 2.2. Refer to **Appendix B** for a copy of the historical record sources.

AKT Peerless also reviewed EGLE records for the Site, which included miscellaneous correspondence, UST registration form indicating a 2022 Phase I ESA identified the property as a gasoline filling station; USTs were once present on the property; and petroleum contaminants were found during testing in January 2023. The files also contained the February 2023 Environmental Expanded Triage Report by SME (see Section 2.3), analytical reports, invoices, contract documents, and a confirmed release report for REL-0013-23, dated January 25, 2023. Copies of EGLE records are maintained on file with EGLE in Facility File No. 10000607.

3.3 Task 3: Develop Remedial Action Work Plan and SSHASP

3.3.1 Remedial Action Work Plan

The objective of this RAWP is to outline actions to be taken to remove contaminated soil from the Site to the extent practicable, verify site conditions following completion of excavation activities, and restore the Site surface to a safe condition following completion of the remedial activities. This RAWP describes implementation of the EGLE-approved remedial action.

3.3.2 SSHASP

The Professional has prepared a SSHASP. All Professional personnel conducting field activities at the site will be required to read the SSHASP and must have satisfied the Occupational Safety and Health Administration (OSHA) training requirements outlined in 29 CFR 1910.120. A copy of AKT Peerless' SSHASP is maintained on file with EGLE.

Any contractors conducting remedial activities will be required to provide their own SSHASP before site work begins to cover their own activities.

3.3.3 Notifications

AKT Peerless and the selected contractor will be responsible for obtaining utility clearance using the MISS DIG System at least 72-hours prior to subsurface events. Additionally, AKT Peerless will notify the SPM, the property owner, and any other parties affected by the remedial activities at least 48 hours in advance of any on-site work. Notification to the SPM will be conducted using form EQP-3801. Other notifications may be completed either verbally, via email, or through formal correspondence.

3.3.4 UST and UST Systems Removal

According to previous environmental assessments of the Site, a geophysical survey identified one metallic anomaly at the Site. It is unknown if this anomaly is an abandoned UST; however, one or more USTs may be present at the Site. The contractor shall be prepared to remove, properly manage and dispose any USTs present within the excavation area. The Professional will oversee the proper removal and disposal of USTs and UST system components by the contractor. In general, the contractor will complete the following items when removing the USTs from the subject property:

- The USTs will be exposed by removing the soil from around the top of the tank.
- Any remaining contents within the USTs will be properly removed and disposed using proper disposal procedures.
- The USTs will be "inert" in order to mitigate the risk of an explosive reaction. Oxygen in the tank will be displaced with another non-explosive gas.
- The USTs and associated piping, fill ports, dispenser island, etc. will be removed from the ground. After removal, the USTs and associated piping and vents will be placed on polyethylene plastic sheeting, such as Visqueen.
- The USTs will be rendered unusable.
- The USTs will be properly cleaned by removing any remaining sludge and triple rinsing the interior of the USTs. Any waste material generated will be collected and properly disposed.
- The USTs and associated piping and vents will be transported to an offsite waste disposal facility.

Specific information regarding the activities conducted by the UST removal contractor will be outlined in the bid specification document.

3.3.5 Soil Excavation

The contractor shall excavate an estimated 7,600 tons of impacted soil located at the Site within the limits shown on Figure 3, up to, but not beneath roadway and not within right-of-way utility corridors. Due to the location of known impact relative to the property boundaries, it may be necessary to protect roadways and subsurface utilities along Dexter Avenue and/or Monterey Avenue. Sheet piling or other approved shoring method may be installed immediately adjacent to the sidewalk and/or other rights-of-

way at the property boundaries. The installation specification of shoring material will be determined by the contractor.

Based on historical soil laboratory data and the potential location of USTs on the Site, it is anticipated the area of excavation on the Site will be bound to the north by the property boundary, to the east by the Dexter Avenue right-of way, to the south by the Monterey Avenue right-of-way, and to the west by a public alley. Excavation activities within the public rights-of-way are not part of the scope of work.

Based on previous subsurface investigations, the extent of soil contamination appears to be concentrated to the southeastern portion of the Site in the area of the USTs identified on Sanborn maps; however, lower levels of contamination have been identified in the area of the automobile repair facility on the northern portion of the Site. Therefore, the estimate of soil removal indicated above includes the entire parcel, which is 120 feet wide (east to west), by 95 feet long (north to south) extending to 15 feet deep.

If it becomes apparent that the contamination extends beyond these estimated limits, the Professional will contact the SPM to discuss the field observations and appropriate steps.

Soil excavation will consist of conventional methods (i.e., excavator and bulk transport for landfill disposal) and will be conducted immediately beneath the surface cover depth ranging from approximately eight feet to 15 feet below ground surface (bgs). Refer to Figure 3 for a depiction of estimated excavation locations and depths.

The Professional will conduct real-time soil screening activities utilizing a photo-ionization detector (PID) to evaluate for the presence of petroleum hydrocarbons. As requested by EGLE, soil will be excavated until soil screening levels are at zero parts per million (ppm) as measured on the PID. Upon completion (and/or during excavation) of excavation activities, the Professional will conduct verification of soil remediation (VSR) sampling activities as summarized in Section 3.3.7.

If necessary, dewatering activities will be conducted in order to facilitate soil excavation. Groundwater will be collected and analytically tested prior to proper offsite disposal.

3.3.6 Verification of Soil Remediation

At the completion of excavation activities, as determined by the results of field screening soil samples with a PID, the Professional shall collect soil samples for verification of soil remediation. The post-excavation soil sampling will be designed to incorporate the methodology for biased sampling for small areas described in EGLE *Sampling Strategies and Statistics Training Materials for Part 201 Cleanup Criteria (S3TM)* guidance document. If groundwater is present covering the bottom of the excavation, a groundwater sample will be collected and analyzed in lieu of excavation bottom soil sample. Verification of soil removal will be conducted through laboratory analysis of these samples which will be analyzed on an expedited basis.

The SPM and Professional will review laboratory analytical data results and verify excavation is complete before the excavation ceases and backfilling commences.

EGLE requires a 24-hour turnaround time on verification samples. Additional excavation and samples may be collected dependent upon the results.

3.3.6.1 Sample Collection, Handling Procedures, and Laboratory Analysis

Soil samples collected during the corrective actions will be analyzed for VOCs in accordance with United States Environmental Protection Agency (USEPA) Method 8260 and PNAs in accordance with USEPA Method 8270, and Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) in accordance with USEPA Method 8015C.

Containers and preservatives will be obtained from the EGLE laboratory prior to sample collection. Preservatives and expiration dates will be recorded into field logbooks as samples are collected so that each preserved sample is cross-referenced with the added preservative(s).

Soil samples for VOCs analysis will be placed in clean 40-milliliter glass vials with Teflon lids. Samples will be preserved on site using a ratio of 1:1 methanol to soil. The holding time for methanol preserved soil samples is 14 days. Soil samples for PNAs, DRO, and GRO analysis will be placed into clean four-ounce, wide mouth jars. Collected soil samples will be stored in a chilled cooler, below 4°C, and submitted under chain of custody to the EGLE laboratory.

3.3.6.2 QA/QC Samples

One trip blank will be collected per volatile organic sample shipping container. These blank samples will be prepared before any sampling is performed and will travel to the field and the laboratory with the other sample containers. No field or equipment blanks will be collected unless specifically requested by the SPM.

Methanol blank samples will be collected by the laboratory for each methanol lot used. These lots will be tracked in the field and reported on the laboratory receipt form so laboratory correlations can be made.

3.3.7 Backfill and Site Restoration

Upon completion of corrective actions (excavation and sampling activities), the contractor will commence backfilling and site restoration. The contractor shall backfill only when analytical data is reviewed and approved by the Professional and Owner. Excavation will continue until Owner determines excavation is completed.

Backfill material will consist of virgin, certified clean, imported sand qualitatively compacted in lifts to prevent future settling of the excavation. Each lift shall not exceed 12-inches and compaction shall be accomplished using power driven equipment, compacting to a 95% of maximum unit weight, until the appropriate elevation for placement of surficial material is achieved. The contractor is required to provide third party compaction testing.

In unpaved areas, the upper four inches of the disturbed area shall be filled with topsoil and grass seed. Topsoil must be from a commercial topsoil provider and composition of grass seed and growth rates must follow the bid specification. The surface of the disturbed area shall be graded level without depressions or mounds to match with the surrounding surfaces.

The seed will consist of State-approved of the latest season's crop delivered in original, durable, sealed bags. Wet, moldy, or otherwise damaged seed will be rejected. The following table identifies the composition of the seed:

	Minimum*	Minimum*	Mixture*
Kind	Purity, %	Germination, %	Class A, %
Hard Fescue	97	85	30
Kentucky Bluegrass	98	85	10
Perennial Rye Grass	96	85	20
Creeping Red Fescue	97	85	40

*Proportion seed mixtures by weight

Additional details regarding the application rates, topsoil, water, and fertilization will be outlined in the bid specifications.

In areas of concrete (i.e., replacement of sidewalks, other public infrastructure), the concrete will be a minimum of four inches. Specific details regarding installation of concrete will be provided in the bid specification.

All required documentation related to the project (manifest, landfill tickets, etc.) will be collected and organized by the contractor and provided to the Professional within two weeks of demobilization from the subject property.

3.4 Task 4: Prepare Bid Specifications and Solicit Bids

AKT Peerless will prepare bid specifications adequate to procure a trade contractor to:

- Replacement of any deteriorated or damaged sidewalks present on the site;
- Remove and dispose UST system components;
- Excavate, remove, and dispose contaminated soil and groundwater;
- Backfill and compact the disturbed areas; and
- Restore the site by grading, placing topsoil (as needed), placing grass seed, and/or concrete surfaces.

The specification package will be developed using DTMB *DCSPEC Bidding and Contract Documents for Minor Projects*. These DTMB contract documents shall be supplied by EGLE to the Professional for developing the project bidding specifications. In addition to describing the scope of work, the specifications will include EGLE requirements for safety and waste management, and drawings to describe the full scope of work. Upon review and approval of the specification package by EGLE, the Professional shall submit the specification package to the DTMB for advertisement to qualified contractors.

The Professional will coordinate the “bid cycle” activities with EGLE and DTMB. These bid cycle activities include:

- Attendance at one on-site pre-bid meeting;
- Preparation and distribution of one bid addendum to respond to bidder questions prior to bid due date;
- Review bid submittals, tabulate and compare bids received; and attend one meeting with EGLE to review bids and recommend the lowest qualified bid.

Work hours must be between 8:00am and 6:00pm or dark (whichever is earliest) if the Site is located in a residential neighborhood.

3.5 Task 5: Trade Contractor Oversight/Completion of Remedial Activities

In addition to the activities summarized in Section 3 of this RAWP, the Professional will conduct the onsite project kick-off meeting following contractor mobilization. The key topics to be discussed include safety protocols and safe execution of the work, communication protocols, work schedule, and project duration. The Professional will provide one full-time staff during the time that the remediation subcontractor is on-site. Responsibilities include:

- Safety monitoring;
- Work progress monitoring;
- Field screening soil samples with a photoionization detector (PID) and monitoring that excavation activities proceed as designed to achieve objectives;
- Monitoring demolition and backfilling activities and progress;
- Schedule and arrange for delivery of the verification soil/groundwater samples to an EGLE-approved laboratory within an iced container and using chain-of-custody protocols;
- Waste management activities (e.g., signing manifests on behalf of EGLE); and daily documentation of the work conducted, waste volumes, shipping records, etc.

3.6 Task 6: Complete Summary Report

The Professional will conduct a meeting with the SPM to summarize the completion of the remedial activities and to review the results of the post-excavation verification samples. The outcome of this meeting will be the decision to either prepare a Technical Memorandum or a Part 213 LUST Closure Report. The report will summarize all work accomplished, analytical results, and other pertinent information, including the following:

- Site map to identify at a minimum the property lines, buildings, structures, tanks, utilities, excavation boundaries, etc.;
- Map of soil boring, temporary monitoring well, and/or VSR sample locations;
- Map of extent and distribution of groundwater analytical results;
- Map of extent and distribution of soil analytical results;
- Cross sections of site features with wells represented;
- Laboratory analytical results (i.e., lab sheets); and
- Tables of analytical results and relevant Part 213 RBSLs and/or VIAP Screening Levels.

One hard copy and an electronic copy of the draft report will be submitted to the SPM for review before the preparation of the final document. After written comments are received, they will be reviewed and incorporated into a final document as appropriate. Two hard copies and an electronic copy of the report will be submitted to EGLE.

4.0 Schedule

The following schedule for proposed remedial excavation activities was developed based on information known to date, proposed activities, and information provided by the EGLE:

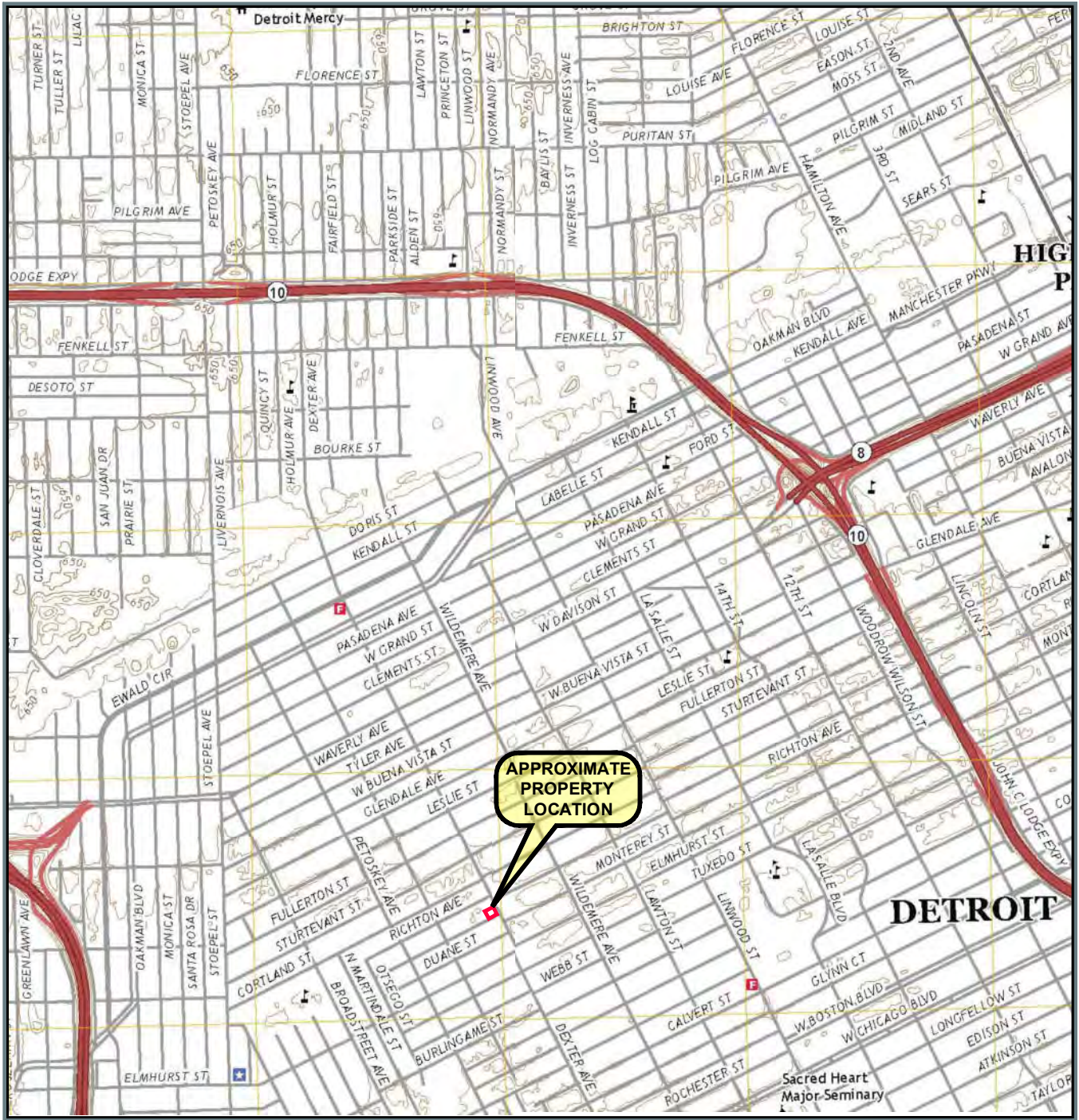
Proposed Activity	Approximate Completion Date
Final Work Plan and SSHASP development	Immediately upon EGLE comments
Bid specification release	3-4 weeks from EGLE approval of Work Plan
Remedial excavation activity	2-4 weeks from commencement of remedial activity
Data evaluation	2 weeks from receipt of soil analytical results
Final Technical Memorandum or LUST Closure	6-10 weeks from receipt of analytical results

5.0 References

The following is a list of reference material included in this document. Copies of relevant documents are provided in **Appendix A** and **Appendix B**.

- SME February 2023 Environmental Expanded Triage
- Historical record sources
- EGLE RRD records maintained on file in Facility File No. 10000607

Figures



**APPROXIMATE
PROPERTY
LOCATION**



SCALE: 1" = 2000'

Base map obtained from USGS Store

USGS QUADRANGLE(S) REFERENCED

HIGHLAND PARK (MI) 2019
ROYAL OAK (MI) 2019

No.	Revision Date	Date
		02-14-2023
	Drawn By	JAB
	Designed By	AJL
	Scale	1" = 2000'
	Project	089418.32

**SITE LOCATION DIAGRAM
12161 DEXTER AVENUE
DETROIT, MICHIGAN**



www.sme-usa.com

Figure No. 1

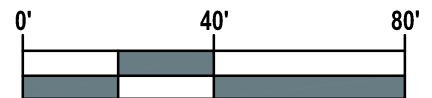


LEGEND

- SITE / SITE BOUNDARY
- APPROXIMATE SOIL BORING LOCATION
- BENCHMARK - TOP OF FIRE HYDRANT NEAR THE NORTHWEST CORNER OF DEXTER AVENUE AND MONTEREY STREET (ASSUMED ELEVATION = 100.0 FT)

GPR/MISS DIG UTILITIES

- WTR WATER SERVICE UTILITY
- GAS NATURAL GAS UTILITY
- UNKNOWN ANOMALY
- UNKNOWN POSSIBLE FOUNDATION
- ESTIMATED EXTENT OF PROPOSED EXCAVATION



GRAPHIC SCALE: 1" = 40'

NOTES:

1. DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO WITH AN IMAGE DATE OF 05-07-2022.
2. UTILITY INFORMATION TAKEN FROM GPR REPORT IN APPENDIX A AND OBSERVED MISS-DIG MARKINGS.

No.	Revision Date	Date	01-06-2023
		Drawn By	CRC
		Designed By	AJL
		Scale	1" = 40'
		Project	089418.32

BORING LOCATION DIAGRAM 12161 DEXTER AVENUE DETROIT, MICHIGAN






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Figure No. 2

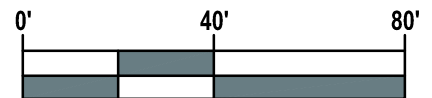


LEGEND

-  SITE / SITE BOUNDARY
-  APPROXIMATE SOIL BORING LOCATION
-  BENCHMARK - TOP OF FIRE HYDRANT NEAR THE NORTHWEST CORNER OF DEXTER AVENUE AND MONTEREY STREET (ASSUMED ELEVATION = 100.0 FT)

GPR/MISS DIG UTILITIES

-  WTR WATER SERVICE UTILITY
-  GAS NATURAL GAS UTILITY
-  UNKNOWN ANOMALY
-  UNKNOWN POSSIBLE FOUNDATION
-  ESTIMATED EXTENT OF PROPOSED EXCAVATION



GRAPHIC SCALE: 1" = 40'

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2. UTILITY INFORMATION TAKEN FROM GPR REPORT IN APPENDIX A AND OBSERVED MISS-DIG MARKINGS.

No.	Revision Date	Date	01-06-2023
		Drawn By	CRC
		Designed By	AJL
		Scale	1" = 40'
		Project	089418.32

BORING LOCATION DIAGRAM
12161 DEXTER AVENUE
DETROIT, MICHIGAN



www.sme-usa.com

Figure No. 2

Appendix A

Previous Investigations



882 40th Street SE
Grand Rapids, MI 49508-2401

T (616) 406-1756

www.sme-usa.com

February 21, 2023

Mr. Lee Gosson
Environmental Quality Analyst
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
Remediation and Redevelopment Division
401 Ketchum Street, Suite B
Bay City, Michigan 48708

RE: 12161 Dexter Avenue
Detroit, Michigan
Environmental Expanded Triage
Southeast Michigan District
Leaking Underground Storage Tank (LUST) Sites
SME Project No. 089418.32

Dear Mr. Gosson:

SME has completed environmental expanded triage services at the 12161 Dexter Avenue site. The site is located west of Dexter Avenue and north of Monterey Street. The location of the site is shown on Figure 1. At the time of our services, the site was vacant.

The triage services were completed, as described in our **Work Plan to Conduct Environmental Expanded Triage**, dated March 3, 2022. The following documents are attached to this letter:

Figures

Tables

Attachment A: GPR/EM Survey

Attachment B: Soil Boring Logs

Attachment C: Field Notes and Logs (Including Photographs)

Attachment D: Laboratory Analytical Results

A ground penetrating radar (GPR) and electromagnetic (EM) survey was conducted by Worksmart, Inc. on December 8, 2022, to evaluate the likely location of USTs and underground utilities. The area for the GPR/EM survey was selected by the EGLE site project manager. No anomalies indicative of USTs were identified during the GPR/EM survey. Anomalies consistent with a metallic object, building foundation, and some anomalies consistent with utilities were observed and noted in the GPR/EM report. The GPR/EM survey results are included in Attachment A.

Following completion of the GPR/EM survey, SME advanced 15 soil borings at the site on December 19 and 20, 2022. The borings locations are shown on Figure 2, and the coordinates for each soil boring are listed on the soil boring logs in Attachment B. The soil borings were advanced to depths from approximately 14 feet to 19 feet below ground surface (bgs).

The soil boring locations and depths were selected by the EGLE site project manager. Thirty soil samples and associated quality control samples were submitted to the EGLE analytical laboratory for volatile organic compounds (VOCs) and/or semivolatile organic compounds (SVOCs) analyses. The sample intervals were selected based on the procedures described in our Work Plan, the triage standard operating procedure (SOP) for sample selection, and/or the EGLE site project manager.

Descriptions of the soil conditions encountered at the soil borings locations are documented in the soil boring logs in Attachment B. The surface materials encountered on the site consisted of topsoil or fill materials. The topsoil was underlain by sand and clay fill materials. The fill materials extended to depths of 1.5 feet to 17 feet bgs. The fill materials were generally underlain by native clay that extended to the explored depths of the borings. No groundwater was encountered in the soil borings. Odors, staining, and photoionization detector (PID) readings are noted on the soil boring logs.

Following collection of soil samples, the soil borings were backfilled with soil cuttings and/or bentonite to within 1 foot of the ground surface. The surface at the boring locations were restored with topsoil to match the surrounding ground surface.

SME's field notes and field boring logs are included in Attachment C. Site photographs were taken before, during, and after on-site activities and of each boring location after completion are included in field notes in Attachment C.

The analytical results for the soil samples are presented in the attached tables, and the laboratory analytical data are included in Attachment D. Figure 3 summarizes the constituents present in soil samples at concentrations above the laboratory reporting limits.

The information in this report is based on visual observations and chemical results from samples collected from the area of investigation as designated by the EGLE site project manager. In the process of obtaining information in preparation of this report, procedures were followed that represent reasonable practices and principles in a manner consistent with that level of care and skill ordinarily exercised by members of this profession currently practicing under similar conditions in a similar geographical area.

Thank you for the opportunity to provide these services. If you have any questions concerning this report, please call.

Very truly yours,

SME

PREPARED BY:
Aaron J. Lammers, EIT
Project Engineer

REVIEWED BY:
Sara I. Bals, EIT
Senior Consultant

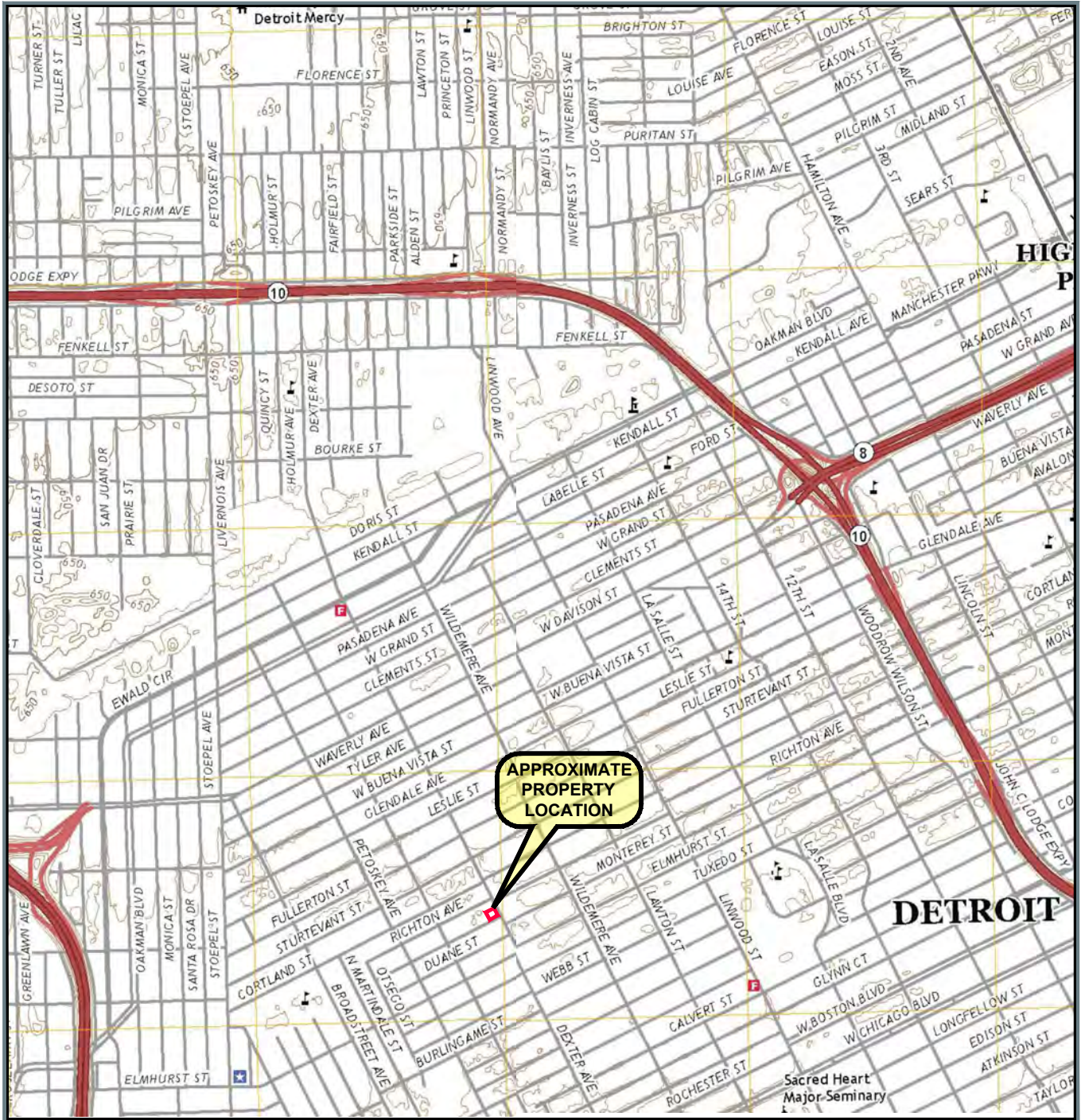
Attachment: One CD with PDF file of report and JPEG files of photographs

FIGURES

FIGURE 1: PROPERTY LOCATION MAP

FIGURE 2: BORING LOCATION DIAGRAM

FIGURE 3: SOIL RESULTS DIAGRAM



**APPROXIMATE
PROPERTY
LOCATION**



SCALE: 1" = 2000'

Base map obtained from USGS Store

USGS QUADRANGLE(S) REFERENCED

HIGHLAND PARK (MI) 2019
ROYAL OAK (MI) 2019

No.	Revision Date	Date
		02-14-2023
	Drawn By	JAB
	Designed By	AJL
	Scale	1" = 2000'
	Project	089418.32

**SITE LOCATION DIAGRAM
12161 DEXTER AVENUE
DETROIT, MICHIGAN**






www.sme-usa.com







Figure No. 1

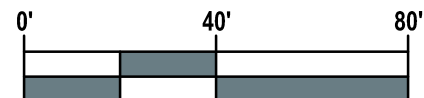


LEGEND

-  SITE / SITE BOUNDARY
-  APPROXIMATE SOIL BORING LOCATION
-  BENCHMARK - TOP OF FIRE HYDRANT NEAR THE NORTHWEST CORNER OF DEXTER AVENUE AND MONTEREY STREET (ASSUMED ELEVATION = 100.0 FT)

GPR/MISS DIG UTILITIES

-  WTR  WATER SERVICE UTILITY
-  GAS  NATURAL GAS UTILITY
-  UNKNOWN ANOMALY
-  UNKNOWN POSSIBLE FOUNDATION



GRAPHIC SCALE: 1" = 40'

NOTES:

1. DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO WITH AN IMAGE DATE OF 05-07-2022.
2. UTILITY INFORMATION TAKEN FROM GPR REPORT IN APPENDIX A AND OBSERVED MISS-DIG MARKINGS.

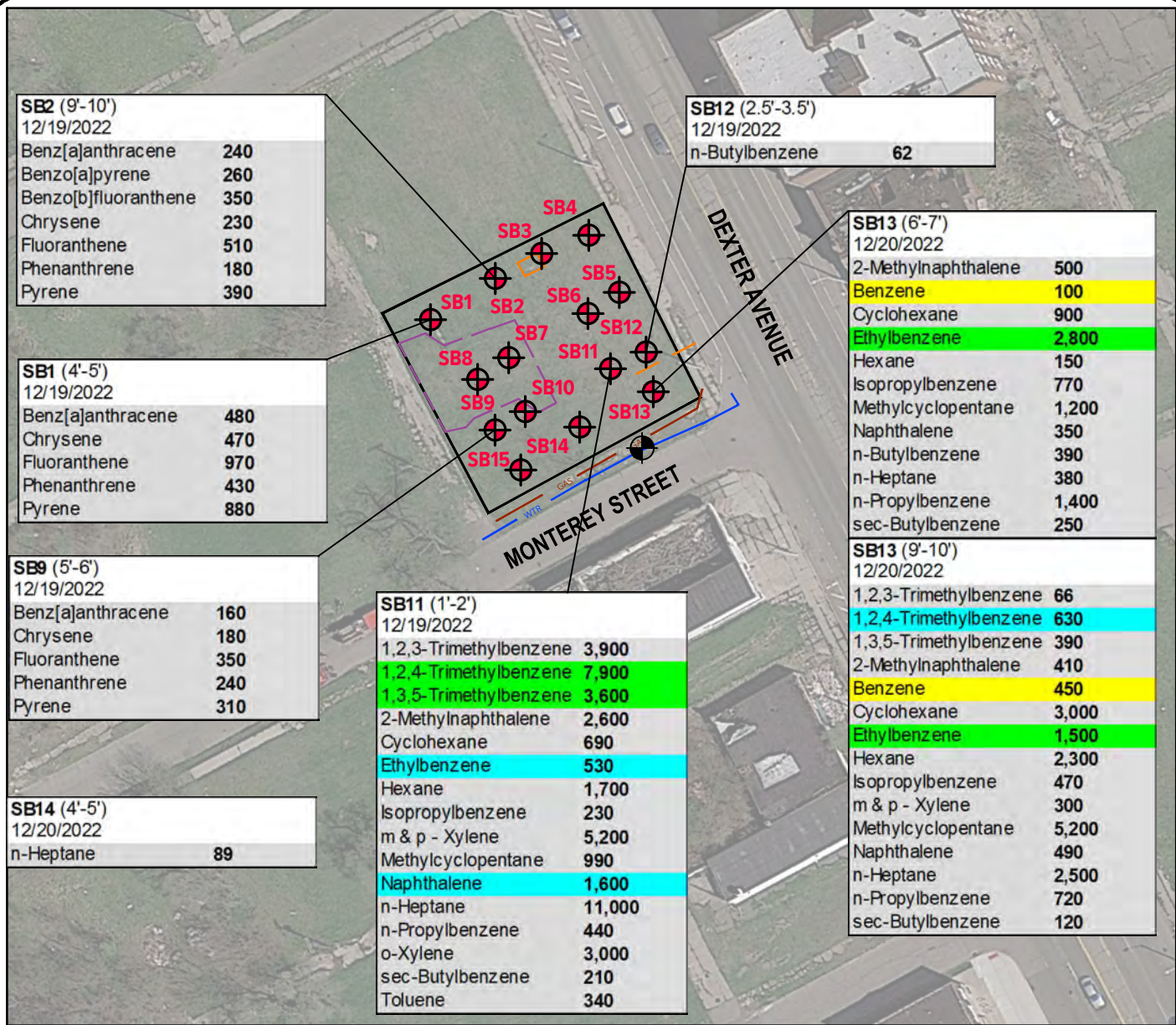
No.	Revision Date	Date	01-06-2023
		Drawn By	CRC
		Designed By	AJL
		Scale	1" = 40'
		Project	089418.32

BORING LOCATION DIAGRAM 12161 DEXTER AVENUE DETROIT, MICHIGAN



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Figure No. 2



LEGEND

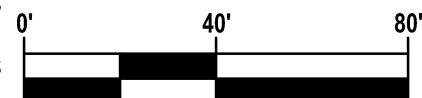
- SITE / SITE BOUNDARY
- APPROXIMATE SOIL BORING LOCATION
- BENCHMARK - TOP OF FIRE HYDRANT NEAR THE NORTHWEST CORNER OF DEXTER AVENUE AND MONTEREY STREET (ASSUMED ELEVATION = 100.0 FT)

NOTES:

- DRAWING INFORMATION TAKEN FROM GOOGLE EARTH PRO WITH AN IMAGE DATE OF 05-07-2022.
- UTILITY INFORMATION TAKEN FROM GPR REPORT IN APPENDIX A AND OBSERVED MISS-DIG MARKINGS.
- CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER KILOGRAM (µg/kg) AND ARE GREATER THAN THE LABORATORY REPORTING LIMIT.

GPR/MISS DIG UTILITIES

- WTR WATER SERVICE UTILITY
- GAS NATURAL GAS UTILITY
- UNKNOWN ANOMALY
- UNKNOWN POSSIBLE FOUNDATION
- CONCENTRATION EXCEEDS DWPC AND GSPC
- CONCENTRATION EXCEEDS DWPC
- CONCENTRATION EXCEEDS GSPC
- CONCENTRATION WAS DETECTED



GRAPHIC SCALE: 1" = 40'

No.	Revision Date	Date	01-24-2023
		Drawn By	CRC
		Designed By	AJL
		Scale	1" = 40'
		Project	089418.32

SOIL RESULTS DIAGRAM
12161 DEXTER AVENUE
DETROIT, MICHIGAN



Figure No. 3

TABLES

TABLE 1A: SOIL (MOISTURE)

TABLE 1B: SOIL (VOCs)

TABLE 1C: SOIL (SVOCs)

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-01	2212178-02	2212178-03	2212178-04	
Sample ID									SB1 (8-9)	SB1 (4-5)	SB2 (5-6)	SB2 (9-10)	
Sample Depth													
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	85.0	82.3	87.5	82.3	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-05	2212178-06	2212178-07	2212178-08
Sample ID									SB3 (4-5)	SB3 (8-9)	SB4 (5-6)	SB4 (8-9)
Sample Depth												
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Inorganics-General Chemistry									
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	87.6	88.6	88.4	87.6

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-09	2212178-10	2212178-11	2212178-12
Sample ID									SB5 (8-9)	SB5 (4-5)	SB6 (5-6)	SB6 (9-10)
Sample Depth												
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Inorganics-General Chemistry									
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	89.0	83.7	89.6	88.0

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-13	2212178-14	2212178-15	2212178-16	
Sample ID									SB7 (4-5)	SB7 (8-9)	SB8 (5-6)	SB8 (9-10)	
Sample Depth													
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	87.7	88.5	88.2	88.7	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-17	2212178-18	2212178-19	2212178-20	
Sample ID									SB9 (5-6)	SB9 (8-9)	SB10 (4-5)	SB10 (9-10)	
Sample Depth													
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	82.2	81.5	86.5	90.0	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-01	2212179-02	2212179-03	2212179-04	
Sample ID									SB11 (1-2)	SB11 (4-5)	SB12 (2.5-3.5)	SB12 (9-10)	
Sample Depth													
Date Collected									12/19/2022	12/19/2022	12/19/2022	12/19/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	92.2	87.2	89.2	89.0	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-05	2212179-06	2212179-07	2212179-08	
Sample ID									SB13 (6-7)	SB13 (9-10)	SB14 (4-5)	SB14 (9-10)	
Sample Depth													
Date Collected									12/20/2022	12/20/2022	12/20/2022	12/20/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	88.6	89.1	84.5	88.5	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-09	2212179-10	2212179-11	2212179-12	
Sample ID									SB15 (5-6)	SB15 (9-10)	DUP1	DUP2	
Sample Depth													
Date Collected									12/20/2022	12/20/2022	12/20/2022	12/20/2022	
Date Received									12/21/2022	12/21/2022	12/21/2022	12/21/2022	
Analyte	Units	Method	Inorganics-General Chemistry										
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	85.5	88.8	88.4	89.0	

TABLE 1A - SOIL (MOISTURE)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Statewide Default Background Level (SDBL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-13
Sample ID									Trip Blank
Sample Depth									
Date Collected									11/23/2022
Date Received									12/21/2022
Analyte	Units	Method	Inorganics-General Chemistry						
% Total Solids	%	2540 G	NA	NA	NA	NA	NA	NA	100

TABLE 1A - SOIL (MOISTURE)

Grey indicates contaminant was detected.

Yellow indicates contaminant exceeds DWPC.

Blue indicates contaminant exceeds GSIPC.

Green indicates contaminant exceeds both DWPC and GSIPC.

Orange indicates contaminant exceeds one or more criteria; SVIIC and/or DCC.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background, not applicable.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"G" refers to Footnote G of the Criteria/RBSLs tables. The GSI criteria must be calculated.

Letters in criteria columns refer to Footnotes of the Criteria/RBSLs tables.

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-01	2212178-02	2212178-03	2212178-04	2212178-05
Sample ID								SB1 (8-9)	SB1 (4-5)	SB2 (5-6)	SB2 (9-10)	SB3 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<68	<72	<68	<72	<63
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<68	<72	<68	<72	<63
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<68	<72	<68	<72	<63
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<68	<72	<68	<72	<63
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<68	<72	<68	<72	<63
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<68	<72	<68	<72	<63
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<68	<72	<68	<72	<63
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<340	<360	<340	<360	<320
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<68	<72	<68	<72	<63
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<68	<72	<68	<72	<63
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<340	<360	<340	<360	<320
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	<68	<72	<68	<72	<63
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<68	<72	<68	<72	<63
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<68	<72	<68	<72	<63
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<68	<72	<68	<72	<63
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<68	<72	<68	<72	<63
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	<68	<72	<68	<72	<63
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<68	<72	<68	<72	<63
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<68	<72	<68	<72	<63
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<340	<360	<340	<360	<320
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<340	<360	<340	<360	<320
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<340	<360	<340	<360	<320
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1400	<1400	<1400	<1400	<1300
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<340	<360	<340	<360	<320
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<340	<360	<340	<360	<320
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<68	<72	<68	<72	<63
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<68	<72	<68	<72	<63
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<68	<72	<68	<72	<63
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<68	<72	<68	<72	<63
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<270	<290	<270	<290	<250
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<68	<72	<68	<72	<63
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<68	<72	<68	<72	<63
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<68	<72	<68	<72	<63

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-01	2212178-02	2212178-03	2212178-04	2212178-05
Sample ID								SB1 (8-9)	SB1 (4-5)	SB2 (5-6)	SB2 (9-10)	SB3 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<340	<360	<340	<360	<320
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<68	<72	<68	<72	<63
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<340	<360	<340	<360	<320
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<68	<72	<68	<72	<63
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<68	<72	<68	<72	<63
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	<340	<360	<340	<360	<320
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<68	<72	<68	<72	<63
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<68	<72	<68	<72	<63
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<340	<360	<340	<360	<320
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<270	<290	<270	<290	<250
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<340	<360	<340	<360	<320
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	<68	<72	<68	<72	<63
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<340	<360	<340	<360	<320
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<340	<360	<340	<360	<320
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	<68	<72	<68	<72	<63
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	<68	<72	<68	<72	<63
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<140	<140	<140	<140	<130
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	<68	<72	<68	<72	<63
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<140	<140	<140	<140	<130
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<68	<72	<68	<72	<63
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	<340	<360	<340	<360	<320
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<68	<72	<68	<72	<63
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	<68	<72	<68	<72	<63
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	<68	<72	<68	<72	<63
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<68	<72	<68	<72	<63
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<68	<72	<68	<72	<63
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<68	<72	<68	<72	<63
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<68	<72	<68	<72	<63
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3400	<3600	<3400	<3600	<3200
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<340	<360	<340	<360	<320
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<68	<72	<68	<72	<63
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<340	<360	<340	<360	<320

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-01	2212178-02	2212178-03	2212178-04	2212178-05
Sample ID								SB1 (8-9)	SB1 (4-5)	SB2 (5-6)	SB2 (9-10)	SB3 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<68	<72	<68	<72	<63
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<68	<72	<68	<72	<63
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<68	<72	<68	<72	<63
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<68	<72	<68	<72	<63
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<68	<72	<68	<72	<63
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<68	<72	<68	<72	<63

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-06	2212178-07	2212178-08	2212178-09	2212178-10
Sample ID								SB3 (8-9)	SB4 (5-6)	SB4 (8-9)	SB5 (8-9)	SB5 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<63	<66	<66	<62	<71
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<63	<66	<66	<62	<71
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<63	<66	<66	<62	<71
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<63	<66	<66	<62	<71
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<63	<66	<66	<62	<71
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<63	<66	<66	<62	<71
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<63	<66	<66	<62	<71
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<330	<330	<310	<350
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<63	<66	<66	<62	<71
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<66	<62	<71
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<310	<330	<330	<310	<350
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	<63	<66	<66	<62	<71
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<63	<66	<66	<62	<71
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<63	<66	<66	<62	<71
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<63	<66	<66	<62	<71
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<63	<66	<66	<62	<71
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	<63	<66	<66	<62	<71
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<63	<66	<66	<62	<71
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<63	<66	<66	<62	<71
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<310	<330	<330	<310	<350
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<310	<330	<330	<310	<350
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<310	<330	<330	<310	<350
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1300	<1300	<1300	<1200	<1400
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<310	<330	<330	<310	<350
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<310	<330	<330	<310	<350
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<63	<66	<66	<62	<71
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<66	<62	<71
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<63	<66	<66	<62	<71
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<63	<66	<66	<62	<71
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<250	<260	<260	<250	<280
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<63	<66	<66	<62	<71
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<63	<66	<66	<62	<71
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<63	<66	<66	<62	<71

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-06	2212178-07	2212178-08	2212178-09	2212178-10
Sample ID								SB3 (8-9)	SB4 (5-6)	SB4 (8-9)	SB5 (8-9)	SB5 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<310	<330	<330	<310	<350
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<63	<66	<66	<62	<71
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<310	<330	<330	<310	<350
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<63	<66	<66	<62	<71
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<66	<62	<71
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<330	<330	<310	<350
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<63	<66	<66	<62	<71
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<63	<66	<66	<62	<71
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<310	<330	<330	<310	<350
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<250	<260	<260	<250	<280
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<310	<330	<330	<310	<350
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	<63	<66	<66	<62	<71
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<310	<330	<330	<310	<350
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<310	<330	<330	<310	<350
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	<63	<66	<66	<62	<71
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	<63	<66	<66	<62	<71
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<130	<130	<130	<120	<140
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	<63	<66	<66	<62	<71
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<130	<130	<130	<120	<140
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<63	<66	<66	<62	<71
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	<310	<330	<330	<310	<350
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<66	<62	<71
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	<63	<66	<66	<62	<71
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	<63	<66	<66	<62	<71
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<66	<62	<71
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<66	<62	<71
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<63	<66	<66	<62	<71
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<66	<62	<71
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3100	<3300	<3300	<3100	<3500
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<310	<330	<330	<310	<350
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<63	<66	<66	<62	<71
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<310	<330	<330	<310	<350

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-06	2212178-07	2212178-08	2212178-09	2212178-10
Sample ID								SB3 (8-9)	SB4 (5-6)	SB4 (8-9)	SB5 (8-9)	SB5 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<63	<66	<66	<62	<71
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<63	<66	<66	<62	<71
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<66	<62	<71
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<63	<66	<66	<62	<71
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<63	<66	<66	<62	<71
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<63	<66	<66	<62	<71

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-11	2212178-12	2212178-13	2212178-14	2212178-15
Sample ID								SB6 (5-6)	SB6 (9-10)	SB7 (4-5)	SB7 (8-9)	SB8 (5-6)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<63	<66	<62	<64	<65
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<63	<66	<62	<64	<65
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<63	<66	<62	<64	<65
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<63	<66	<62	<64	<65
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<63	<66	<62	<64	<65
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<63	<66	<62	<64	<65
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<63	<66	<62	<64	<65
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<330	<310	<320	<320
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<63	<66	<62	<64	<65
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<62	<64	<65
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<310	<330	<310	<320	<320
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	<63	<66	<62	<64	<65
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<63	<66	<62	<64	<65
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<63	<66	<62	<64	<65
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<63	<66	<62	<64	<65
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<63	<66	<62	<64	<65
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	<63	<66	<62	<64	<65
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<63	<66	<62	<64	<65
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<63	<66	<62	<64	<65
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<310	<330	<310	<320	<320
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<310	<330	<310	<320	<320
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<310	<330	<310	<320	<320
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1300	<1300	<1200	<1300	<1300
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<310	<330	<310	<320	<320
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<310	<330	<310	<320	<320
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<63	<66	<62	<64	<65
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<62	<64	<65
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<63	<66	<62	<64	<65
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<63	<66	<62	<64	<65
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<250	<260	<250	<260	<260
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<63	<66	<62	<64	<65
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<63	<66	<62	<64	<65
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<63	<66	<62	<64	<65

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-11	2212178-12	2212178-13	2212178-14	2212178-15
Sample ID								SB6 (5-6)	SB6 (9-10)	SB7 (4-5)	SB7 (8-9)	SB8 (5-6)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<310	<330	<310	<320	<320
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<63	<66	<62	<64	<65
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<310	<330	<310	<320	<320
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<63	<66	<62	<64	<65
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<62	<64	<65
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<330	<310	<320	<320
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<63	<66	<62	<64	<65
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<63	<66	<62	<64	<65
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<310	<330	<310	<320	<320
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<250	<260	<250	<260	<260
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<310	<330	<310	<320	<320
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	<63	<66	<62	<64	<65
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<310	<330	<310	<320	<320
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<310	<330	<310	<320	<320
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	<63	<66	<62	<64	<65
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	<63	<66	<62	<64	<65
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<130	<130	<120	<130	<130
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	<63	<66	<62	<64	<65
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<130	<130	<120	<130	<130
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<63	<66	<62	<64	<65
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	<310	<330	<310	<320	<320
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<62	<64	<65
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	<63	<66	<62	<64	<65
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	<63	<66	<62	<64	<65
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<62	<64	<65
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<62	<64	<65
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<63	<66	<62	<64	<65
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<66	<62	<64	<65
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3100	<3300	<3100	<3200	<3200
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<310	<330	<310	<320	<320
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<63	<66	<62	<64	<65
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<310	<330	<310	<320	<320

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-11	2212178-12	2212178-13	2212178-14	2212178-15
Sample ID								SB6 (5-6)	SB6 (9-10)	SB7 (4-5)	SB7 (8-9)	SB8 (5-6)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<63	<66	<62	<64	<65
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<63	<66	<62	<64	<65
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<66	<62	<64	<65
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<63	<66	<62	<64	<65
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<63	<66	<62	<64	<65
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<63	<66	<62	<64	<65

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report
 Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-16	2212178-17	2212178-18	2212178-19	2212178-20
Sample ID								SB8 (9-10)	SB9 (5-6)	SB9 (8-9)	SB10 (4-5)	SB10 (9-10)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<62	<82	<73	<66	<61
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<62	<82	<73	<66	<61
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<62	<82	<73	<66	<61
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<62	<82	<73	<66	<61
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<62	<82	<73	<66	<61
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<62	<82	<73	<66	<61
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<62	<82	<73	<66	<61
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<410	<370	<330	<310
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<62	<82	<73	<66	<61
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<62	<82	<73	<66	<61
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<310	<410	<370	<330	<310
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	<62	<82	<73	<66	<61
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<62	<82	<73	<66	<61
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<62	<82	<73	<66	<61
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<62	<82	<73	<66	<61
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<62	<82	<73	<66	<61
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	<62	<82	<73	<66	<61
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<62	<82	<73	<66	<61
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<62	<82	<73	<66	<61
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<310	<410	<370	<330	<310
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<310	<410	<370	<330	<310
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<310	<410	<370	<330	<310
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1200	<1600	<1500	<1300	<1200
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<310	<410	<370	<330	<310
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<310	<410	<370	<330	<310
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<62	<82	<73	<66	<61
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<62	<82	<73	<66	<61
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<62	<82	<73	<66	<61
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<62	<82	<73	<66	<61
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<250	<330	<290	<260	<250
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<62	<82	<73	<66	<61
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<62	<82	<73	<66	<61
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<62	<82	<73	<66	<61

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-16	2212178-17	2212178-18	2212178-19	2212178-20
Sample ID								SB8 (9-10)	SB9 (5-6)	SB9 (8-9)	SB10 (4-5)	SB10 (9-10)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<310	<410	<370	<330	<310
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<62	<82	<73	<66	<61
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<310	<410	<370	<330	<310
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<62	<82	<73	<66	60
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<62	<82	<73	<66	<61
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<410	<370	<330	<310
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<62	<82	<73	<66	<61
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<62	<82	<73	<66	<61
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<310	<410	<370	<330	<310
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<250	<330	<290	<260	<250
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<310	<410	<370	<330	<310
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	<62	<82	<73	<66	<61
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<310	<410	<370	<330	<310
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<310	<410	<370	<330	<310
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	<62	<82	<73	<66	<61
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	<62	<82	<73	<66	<61
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<120	<160	<150	<130	<120
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	<62	<82	<73	<66	<61
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<120	<160	<150	<130	<120
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<62	<82	<73	<66	<61
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	<310	<410	<370	<330	<310
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<62	<82	<73	<66	<61
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	<62	<82	<73	<66	<61
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	<62	<82	<73	<66	<61
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<62	<82	<73	<66	<61
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<62	<82	<73	<66	<61
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<62	<82	<73	<66	<61
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<62	<82	<73	<66	<61
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3100	<4100	<3700	<3300	<3100
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<310	<410	<370	<330	<310
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<62	<82	<73	<66	<61
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<310	<410	<370	<330	<310

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-16	2212178-17	2212178-18	2212178-19	2212178-20
Sample ID								SB8 (9-10)	SB9 (5-6)	SB9 (8-9)	SB10 (4-5)	SB10 (9-10)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<62	<82	<73	<66	<61
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<62	<82	<73	<66	<61
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<62	<82	<73	<66	<61
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<62	<82	<73	<66	<61
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<62	<82	<73	<66	<61
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<62	<82	<73	<66	<61

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-01	2212179-02	2212179-03	2212179-04	2212179-05
Sample ID								SB11 (1-2)	SB11 (4-5)	SB12 (2.5-3.5)	SB12 (9-10)	SB13 (6-7)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<63	<64	<61	<63	<62
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<63	<64	<61	<63	<62
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<63	<64	<61	<63	<62
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<63	<64	<61	<63	<62
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<63	<64	<61	<63	<62
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<63	<64	<61	<63	<62
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<63	<64	<61	<63	<62
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<320	<320	<310	<310	<310
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<63	<64	<61	<63	<62
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	3,900	<64	<61	<63	<62
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<320	<320	<310	<310	<310
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	7,900	<64	<61	<63	<62
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<63	<64	<61	<63	<62
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<63	<64	<61	<63	<62
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<63	<64	<61	<63	<62
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<63	<64	<61	<63	<62
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	3,600	<64	<61	<63	<62
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<63	<64	<61	<63	<62
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<63	<64	<61	<63	<62
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<320	<320	<310	<310	<310
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<320	<320	<310	<310	<310
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	2,600	<320	<310	<310	500
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1300	<1300	<1200	<1300	<1200
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<320	<320	<310	<310	<310
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<320	<320	<310	<310	<310
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<63	<64	<61	<63	100
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<64	<61	<63	<62
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<63	<64	<61	<63	<62
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<63	<64	<61	<63	<62
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<250	<260	<250	<250	<250
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<63	<64	<61	<63	<62
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<63	<64	<61	<63	<62
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<63	<64	<61	<63	<62

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-01	2212179-02	2212179-03	2212179-04	2212179-05
Sample ID								SB11 (1-2)	SB11 (4-5)	SB12 (2.5-3.5)	SB12 (9-10)	SB13 (6-7)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<320	<320	<310	<310	<310
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<63	<64	<61	<63	<62
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<320	<320	<310	<310	<310
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<63	<64	<61	<63	<62
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<64	<61	<63	<62
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	690	<320	<310	<310	900
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<63	<64	<61	<63	<62
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<63	<64	<61	<63	<62
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<320	<320	<310	<310	<310
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<250	<260	<250	<250	<250
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<320	<320	<310	<310	<310
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	530	<64	<61	<63	2,800
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<320	<320	<310	<310	<310
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<320	<320	<310	<310	<310
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	1,700	<64	<61	<63	150
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	230	<64	<61	<63	770
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	5,200	<130	<120	<130	<120
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	990	<64	<61	<63	1,200
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<130	<130	<120	<130	<120
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<63	<64	<61	<63	<62
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	1,600	<320	<310	<310	350
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<64	62	<63	390
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	11,000	<64	<61	<63	380
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	440	<64	<61	<63	1,400
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	3,000	<64	<61	<63	<62
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	210	<64	<61	<63	250
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<63	<64	<61	<63	<62
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<64	<61	<63	<62
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3200	<3200	<3100	<3100	<3100
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<320	<320	<310	<310	<310
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<63	<64	<61	<63	<62
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<320	<320	<310	<310	<310

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-01	2212179-02	2212179-03	2212179-04	2212179-05
Sample ID								SB11 (1-2)	SB11 (4-5)	SB12 (2.5-3.5)	SB12 (9-10)	SB13 (6-7)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	340	<64	<61	<63	<62
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<63	<64	<61	<63	<62
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<64	<61	<63	<62
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<63	<64	<61	<63	<62
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<63	<64	<61	<63	<62
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<63	<64	<61	<63	<62

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-06	2212179-07	2212179-08	2212179-09	2212179-10
Sample ID								SB13 (9-10)	SB14 (4-5)	SB14 (9-10)	SB15 (5-6)	SB15 (9-10)
Sample Depth												
Date Collected								12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<61	<67	<63	<68	<62
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<61	<67	<63	<68	<62
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<61	<67	<63	<68	<62
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<61	<67	<63	<68	<62
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<61	<67	<63	<68	<62
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<61	<67	<63	<68	<62
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<61	<67	<63	<68	<62
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<310	<330	<310	<340	<310
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<61	<67	<63	<68	<62
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	66	<67	<63	<68	<62
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<310	<330	<310	<340	<310
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	630	<67	<63	<68	<62
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<61	<67	<63	<68	<62
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<61	<67	<63	<68	<62
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<61	<67	<63	<68	<62
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<61	<67	<63	<68	<62
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	390	<67	<63	<68	<62
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<61	<67	<63	<68	<62
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<61	<67	<63	<68	<62
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<310	<330	<310	<340	<310
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<310	<330	<310	<340	<310
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<310	<330	<310	<340	<310
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1200	<1300	<1300	<1400	<1200
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<310	<330	<310	<340	<310
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<310	<330	<310	<340	<310
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	450	<67	<63	<68	<62
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<61	<67	<63	<68	<62
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<61	<67	<63	<68	<62
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<61	<67	<63	<68	<62
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<240	<270	<250	<270	<250
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<61	<67	<63	<68	<62
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<61	<67	<63	<68	<62
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<61	<67	<63	<68	<62

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-06	2212179-07	2212179-08	2212179-09	2212179-10
Sample ID								SB13 (9-10)	SB14 (4-5)	SB14 (9-10)	SB15 (5-6)	SB15 (9-10)
Sample Depth												
Date Collected								12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<310	<330	<310	<340	<310
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<61	<67	<63	<68	<62
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<310	<330	<310	<340	<310
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<61	<67	<63	<68	<62
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<61	<67	<63	<68	<62
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	3,000	<330	<310	<340	<310
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<61	<67	<63	<68	<62
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<61	<67	<63	<68	<62
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<310	<330	<310	<340	<310
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<240	<270	<250	<270	<250
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<310	<330	<310	<340	<310
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	1,500	<67	<63	<68	<62
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<310	<330	<310	<340	<310
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<310	<330	<310	<340	<310
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	2,300	<67	<63	<68	<62
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	470	<67	<63	<68	<62
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	300	<130	<130	<140	<120
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	5,200	<67	<63	<68	<62
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<120	<130	<130	<140	<120
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<61	<67	<63	<68	<62
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	490	<330	<310	<340	<310
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<61	<67	<63	<68	<62
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	2,500	89	<63	<68	<62
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	720	<67	<63	<68	<62
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<61	<67	<63	<68	<62
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	120	<67	<63	<68	<62
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<61	<67	<63	<68	<62
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<61	<67	<63	<68	<62
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3100	<3300	<3100	<3400	<3100
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<310	<330	<310	<340	<310
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<61	<67	<63	<68	<62
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<310	<330	<310	<340	<310

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-06	2212179-07	2212179-08	2212179-09	2212179-10
Sample ID								SB13 (9-10)	SB14 (4-5)	SB14 (9-10)	SB15 (5-6)	SB15 (9-10)
Sample Depth												
Date Collected								12/20/2022	12/20/2022	12/20/2022	12/20/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles									
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<61	<67	<63	<68	<62
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<61	<67	<63	<68	<62
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<61	<67	<63	<68	<62
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<61	<67	<63	<68	<62
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<61	<67	<63	<68	<62
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<61	<67	<63	<68	<62

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-11	2212179-12	2212179-13
Sample ID								DUP1	DUP2	Trip Blank
Sample Depth										
Date Collected								12/20/2022	12/20/2022	11/23/2022
Date Received								12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles							
1,1,1,2-Tetrachloroethane	ug/kg dry	8260	100	1,500	ID	6,200	480,000	<63	<63	<50
1,1,1-Trichloroethane	ug/kg dry	8260	50	4,000	1,800	250,000	500,000,000	<63	<63	<50
1,1,2,2-Tetrachloroethane	ug/kg dry	8260	50	170	1,600	4,300	53,000	<63	<63	<50
1,1,2-Trichloroethane	ug/kg dry	8260	50	100	6,600	4,600	180,000	<63	<63	<50
1,1,2-Trichlorotrifluoroethane	ug/kg dry	8260	250	9,000,000	1,700	5,100,000	1,000,000,000	<63	<63	<50
1,1-Dichloroethane	ug/kg dry	8260	50	18,000	15,000	230,000	27,000,000	<63	<63	<50
1,1-Dichloroethylene	ug/kg dry	8260	50	140	2,600	62	200,000	<63	<63	<50
1,2,3-Trichlorobenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<320	<310	<250
1,2,3-Trichloropropane	ug/kg dry	8260	100	840	NA	4,000	1,300,000	<63	<63	<50
1,2,3-Trimethylbenzene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<63	<50
1,2,4-Trichlorobenzene	ug/kg dry	8260	250	4,200	5,900	9,600,000	990,000	<320	<310	<250
1,2,4-Trimethylbenzene	ug/kg dry	8260	100	2,100	570	4,300,000	32,000,000	<63	<63	<50
1,2-Dibromoethane	ug/kg dry	8260	20	20	110	670	92	<63	<63	<50
1,2-Dichlorobenzene	ug/kg dry	8260	100	14,000	280	11,000,000	19,000,000	<63	<63	<50
1,2-Dichloroethane	ug/kg dry	8260	50	100	7,200	2,100	91,000	<63	<63	<50
1,2-Dichloropropane	ug/kg dry	8260	50	100	4,600	4,000	140,000	<63	<63	<50
1,3,5-Trimethylbenzene	ug/kg dry	8260	100	1,800	1,100	2,600,000	32,000,000	<63	<63	<50
1,3-Dichlorobenzene	ug/kg dry	8260	100	170	680	26,000	200,000	<63	<63	<50
1,4-Dichlorobenzene	ug/kg dry	8260	100	1,700	360	19,000	400,000	<63	<63	<50
2,2,4-Trimethylpentane	ug/kg dry	8260	2,500	ID	NA	110,000	ID	<320	<310	<250
2-Butanone (MEK)	ug/kg dry	8260	750	260,000	44,000	54,000,000	120,000,000	<320	<310	<250
2-Methylnaphthalene	ug/kg dry	8260	330	57,000	4,200	2,700,000	8,100,000	<320	<310	<250
2-Propanone (acetone)	ug/kg dry	8260	1,000	15,000	34,000	290,000,000	23,000,000	<1300	<1300	<1000
4-Methyl-2-pentanone (MIBK)	ug/kg dry	8260	2,500	36,000	ID	37,000,000	56,000,000	<320	<310	<250
Acrylonitrile	ug/kg dry	8260	100	100	100	6,600	16,000	<320	<310	<250
Benzene	ug/kg dry	8260	50	100	4,000	1,600	180,000	<63	<63	<50
Bromochloromethane	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<63	<50
Bromodichloromethane	ug/kg dry	8260	100	1,600	ID	1,200	110,000	<63	<63	<50
Bromoform	ug/kg dry	8260	100	1,600	ID	150,000	820,000	<63	<63	<50
Bromomethane	ug/kg dry	8260	200	200	700	860	320,000	<250	<250	<200
Carbon disulfide	ug/kg dry	8260	250	16,000	ID	76,000	7,200,000	<63	<63	<50
Carbon tetrachloride	ug/kg dry	8260	50	100	900	190	96,000	<63	<63	<50
Chlorobenzene	ug/kg dry	8260	50	2,000	500	120,000	4,300,000	<63	<63	<50

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-11	2212179-12	2212179-13
Sample ID								DUP1	DUP2	Trip Blank
Sample Depth										
Date Collected								12/20/2022	12/20/2022	11/23/2022
Date Received								12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles							
Chloroethane	ug/kg dry	8260	250	8,600	22,000	2,900,000	2,600,000	<320	<310	<250
Chloroform	ug/kg dry	8260	50	1,600	7,000	7,200	1,200,000	<63	<63	<50
Chloromethane	ug/kg dry	8260	250	5,200	ID	2,300	1,600,000	<320	<310	<250
cis-1,2-Dichloroethylene	ug/kg dry	8260	50	1,400	12,000	22,000	2,500,000	<63	<63	<50
cis-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<63	<50
Cyclohexane	ug/kg dry	8260	NA	NA	NA	NA	NA	<320	<310	<250
Dibromochloromethane	ug/kg dry	8260	100	1,600	ID	3,900	110,000	<63	<63	<50
Dibromomethane	ug/kg dry	8260	250	1,600	NA	ID	2,500,000	<63	<63	<50
Dichlorodifluoromethane	ug/kg dry	8260	250	95,000	ID	900,000	52,000,000	<320	<310	<250
Diethyl ether	ug/kg dry	8260	200	200	ID	28,000,000	110,000,000	<250	<250	<200
Diisopropyl Ether	ug/kg dry	8260	250	600	ID	670,000	920,000	<320	<310	<250
Ethylbenzene	ug/kg dry	8260	50	1,500	360	87,000	22,000,000	<63	<63	<50
Ethyltertiarybutylether	ug/kg dry	8260	250	980	ID	540,000	ID	<320	<310	<250
Hexachloroethane	ug/kg dry	8260	300	430	1,800	40,000	230,000	<320	<310	<250
Hexane	ug/kg dry	8260	NA	180,000	NA	510,000	92,000,000	<63	<63	<50
Isopropylbenzene	ug/kg dry	8260	250	91,000	3,200	400,000	25,000,000	<63	<63	<50
m & p - Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<130	<130	<100
Methylcyclopentane	ug/kg dry	8260	2,500	ID	NA	92,000	ID	<63	<63	<50
Methylene chloride	ug/kg dry	8260	100	100	30,000	45,000	1,300,000	<130	<130	<100
Methyltertiarybutylether	ug/kg dry	8260	250	800	140,000	9,900,000	1,500,000	<63	<63	<50
Naphthalene	ug/kg dry	8260	330	35,000	730	250,000	16,000,000	<320	<310	<250
n-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<63	<50
n-Heptane	ug/kg dry	8260	NA	46,000,000	NA	1,500,000	990,000,000	<63	<63	<50
n-Propylbenzene	ug/kg dry	8260	100	1,600	ID	ID	2,500,000	<63	<63	<50
o-Xylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<63	<50
sec-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<63	<50
Styrene	ug/kg dry	8260	50	2,700	2,100	250,000	400,000	<63	<63	<50
tert-Butylbenzene	ug/kg dry	8260	50	1,600	ID	ID	2,500,000	<63	<63	<50
tertiary Butyl Alcohol	ug/kg dry	8260	2,500	78,000	NA	310,000,000	120,000,000	<3200	<3100	<2500
tertiaryAmylmethylether	ug/kg dry	8260	250	3,900	NA	58,000	29,000,000	<320	<310	<250
Tetrachloroethylene	ug/kg dry	8260	50	100	1,200	11,000	200,000	<63	<63	<50
Tetrahydrofuran	ug/kg dry	8260	1,000	1,900	220,000	1,300,000	2,900,000	<320	<310	<250

TABLE 1B - SOIL (VOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-11	2212179-12	2212179-13
Sample ID								DUP1	DUP2	Trip Blank
Sample Depth										
Date Collected								12/20/2022	12/20/2022	11/23/2022
Date Received								12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Volatiles							
Toluene	ug/kg dry	8260	100	16,000	5,400	330,000	50,000,000	<63	<63	<50
trans-1,2-Dichloroethylene	ug/kg dry	8260	50	2,000	30,000	23,000	3,800,000	<63	<63	<50
trans-1,3-Dichloropropylene	ug/kg dry	8260	NA	NA	NA	NA	NA	<63	<63	<50
Trichloroethylene	ug/kg dry	8260	50	100	4,000	1,000	110,000	<63	<63	<50
Trichlorofluoromethane	ug/kg dry	8260	100	52,000	NA	2,800,000	79,000,000	<63	<63	<50
Vinyl chloride	ug/kg dry	8260	40	40	260	270	3,800	<63	<63	<50

TABLE 1B - SOIL (VOCs)

Grey indicates contaminant was detected.

Yellow indicates contaminant exceeds DWPC.

Blue indicates contaminant exceeds GSIPC.

Green indicates contaminant exceeds both DWPC and GSIPC.

Orange indicates contaminant exceeds one or more criteria; SVIIC and/or DCC.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background, not applicable.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"G" refers to Footnote G of the Criteria/RBSLs tables. The GSI criteria must be calculated.

Letters in criteria columns refer to Footnotes of the Criteria/RBSLs tables.

TABLE 1C - SOIL (SVOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-02	2212178-04	2212178-05	2212178-08	2212178-10
Sample ID								SB1 (4-5)	SB2 (9-10)	SB3 (4-5)	SB4 (8-9)	SB5 (4-5)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Semivolatiles									
2-Methylnaphthalene	ug/kg dry	8270	330	57,000	4,200	2,700,000	8,100,000	<300	<300	<290	<290	<300
Acenaphthene	ug/kg dry	8270	330	300,000	8,700	190,000,000	41,000,000	<120	<120	<110	<110	<120
Acenaphthylene	ug/kg dry	8270	330	5,900	ID	1,600,000	1,600,000	<120	<120	<110	<110	<120
Anthracene	ug/kg dry	8270	330	41,000	ID	1,000,000,000	230,000,000	<120	<120	<110	<110	<120
Benz[a]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	480	240	<110	<110	<120
Benzo[a]pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<2400	260	<230	<230	<240
Benzo[b]fluoranthene	ug/kg dry	8270	330	NLL	NLL	ID	20,000	<2400	350	<230	<230	<240
Benzo[g,h,i]perylene	ug/kg dry	8270	330	NLL	NLL	NLV	2,500,000	<2400	<240	<230	<230	<240
Benzo[k]fluoranthene	ug/kg dry	8270	330	NLL	NLL	NLV	200,000	<2400	<240	<230	<230	<240
Chrysene	ug/kg dry	8270	330	NLL	NLL	ID	2,000,000	470	230	<110	<110	<120
Dibenz[a,h]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<2400	<240	<230	<230	<240
Fluoranthene	ug/kg dry	8270	330	730,000	5,500	1,000,000,000	46,000,000	970	510	<110	<110	<120
Fluorene	ug/kg dry	8270	330	390,000	5,300	580,000,000	27,000,000	<120	<120	<110	<110	<120
Indeno(1,2,3-c,d)pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	<2400	<240	<230	<230	<240
Naphthalene	ug/kg dry	8270	330	35,000	730	250,000	16,000,000	<120	<120	<110	<110	<120
Phenanthrene	ug/kg dry	8270	330	56,000	2,100	2,800,000	1,600,000	430	180	<110	<110	<120
Pyrene	ug/kg dry	8270	330	480,000	ID	1,000,000,000	29,000,000	880	390	<110	<110	<120

TABLE 1C - SOIL (SVOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212178
 Report Date: 1/12/2023 11:38
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212178-12	2212178-13	2212178-16	2212178-17	2212178-20
Sample ID								SB6 (9-10)	SB7 (4-5)	SB8 (9-10)	SB9 (5-6)	SB10 (9-10)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/19/2022	12/19/2022	12/19/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Semivolatiles									
2-Methylnaphthalene	ug/kg dry	8270	330	57,000	4,200	2,700,000	8,100,000	<280	<290	<280	<300	<280
Acenaphthene	ug/kg dry	8270	330	300,000	8,700	190,000,000	41,000,000	<110	<110	<110	<120	<110
Acenaphthylene	ug/kg dry	8270	330	5,900	ID	1,600,000	1,600,000	<110	<110	<110	<120	<110
Anthracene	ug/kg dry	8270	330	41,000	ID	1,000,000,000	230,000,000	<110	<110	<110	<120	<110
Benz[a]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	<110	<110	<110	160	<110
Benzo[a]pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<230	<230	<230	<2400	<220
Benzo[b]fluoranthene	ug/kg dry	8270	330	NLL	NLL	ID	20,000	<230	<230	<230	<2400	<220
Benzo[g,h,i]perylene	ug/kg dry	8270	330	NLL	NLL	NLV	2,500,000	<230	<230	<230	<2400	<220
Benzo[k]fluoranthene	ug/kg dry	8270	330	NLL	NLL	NLV	200,000	<230	<230	<230	<2400	<220
Chrysene	ug/kg dry	8270	330	NLL	NLL	ID	2,000,000	<110	<110	<110	180	<110
Dibenz[a,h]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<230	<230	<230	<2400	<220
Fluoranthene	ug/kg dry	8270	330	730,000	5,500	1,000,000,000	46,000,000	<110	<110	<110	350	<110
Fluorene	ug/kg dry	8270	330	390,000	5,300	580,000,000	27,000,000	<110	<110	<110	<120	<110
Indeno(1,2,3-c,d)pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	<230	<230	<230	<2400	<220
Naphthalene	ug/kg dry	8270	330	35,000	730	250,000	16,000,000	<110	<110	<110	<120	<110
Phenanthrene	ug/kg dry	8270	330	56,000	2,100	2,800,000	1,600,000	<110	<110	<110	240	<110
Pyrene	ug/kg dry	8270	330	480,000	ID	1,000,000,000	29,000,000	<110	<110	<110	310	<110

TABLE 1C - SOIL (SVOCs)

Michigan Department of Environmental Quality Analytical Testing Report

Work Order: 2212179
 Report Date: 1/13/2023 9:09
 Client: EGLE-RRD-SAGINAW BAY
 Attention: Lee Gosson
 Project Name: SWET22-WARREN-12161 DEXTER
 Project Number: T400/7826

Sample Number			Target Detection Limit (TDL)	Drinking Water Protection Criteria (DWPC)	Groundwater Surface Water Protection Criteria (GSIPC)	Soil Volatilization to Indoor Air Inhalation Criteria (SVIIC)	Direct Contact Criteria (DCC)	2212179-01	2212179-03	2212179-06	2212179-08	2212179-10
Sample ID								SB11 (1-2)	SB12 (2.5-3.5)	SB13 (9-10)	SB14 (9-10)	SB15 (9-10)
Sample Depth												
Date Collected								12/19/2022	12/19/2022	12/20/2022	12/20/2022	12/20/2022
Date Received								12/21/2022	12/21/2022	12/21/2022	12/21/2022	12/21/2022
Analyte	Units	Method	Organics-Semivolatiles									
2-Methylnaphthalene	ug/kg dry	8270	330	57,000	4,200	2,700,000	8,100,000	<270	<280	410	<280	<280
Acenaphthene	ug/kg dry	8270	330	300,000	8,700	190,000,000	41,000,000	<110	<110	<110	<110	<110
Acenaphthylene	ug/kg dry	8270	330	5,900	ID	1,600,000	1,600,000	<110	<110	<110	<110	<110
Anthracene	ug/kg dry	8270	330	41,000	ID	1,000,000,000	230,000,000	<110	<110	<110	<110	<110
Benz[a]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	<110	<110	<110	<110	<110
Benzo[a]pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<2200	<220	<220	<230	<230
Benzo[b]fluoranthene	ug/kg dry	8270	330	NLL	NLL	ID	20,000	<2200	<220	<220	<230	<230
Benzo[g,h,i]perylene	ug/kg dry	8270	330	NLL	NLL	NLV	2,500,000	<2200	<220	<220	<230	<230
Benzo[k]fluoranthene	ug/kg dry	8270	330	NLL	NLL	NLV	200,000	<2200	<220	<220	<230	<230
Chrysene	ug/kg dry	8270	330	NLL	NLL	ID	2,000,000	<110	<110	<110	<110	<110
Dibenz[a,h]anthracene	ug/kg dry	8270	330	NLL	NLL	NLV	2,000	<2200	<220	<220	<230	<230
Fluoranthene	ug/kg dry	8270	330	730,000	5,500	1,000,000,000	46,000,000	<110	<110	<110	<110	<110
Fluorene	ug/kg dry	8270	330	390,000	5,300	580,000,000	27,000,000	<110	<110	<110	<110	<110
Indeno(1,2,3-c,d)pyrene	ug/kg dry	8270	330	NLL	NLL	NLV	20,000	<2200	<220	<220	<230	<230
Naphthalene	ug/kg dry	8270	330	35,000	730	250,000	16,000,000	<110	<110	460	<110	<110
Phenanthrene	ug/kg dry	8270	330	56,000	2,100	2,800,000	1,600,000	<110	<110	<110	<110	<110
Pyrene	ug/kg dry	8270	330	480,000	ID	1,000,000,000	29,000,000	<110	<110	<110	<110	<110

TABLE 1C - SOIL (SVOCs)

Grey indicates contaminant was detected.

Yellow indicates contaminant exceeds DWPC.

Blue indicates contaminant exceeds GSIPC.

Green indicates contaminant exceeds both DWPC and GSIPC.

Orange indicates contaminant exceeds one or more criteria; SVIIC and/or DCC.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background, not applicable.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"G" refers to Footnote G of the Criteria/RBSLs tables. The GSI criteria must be calculated.

Letters in criteria columns refer to Footnotes of the Criteria/RBSLs tables.