

CONSTRUCTION CONTRACT

RFP# 26-02

E. HURON RIVER RETAINING WALL REPLACEMENT AND ROAD RECONSTRUCTION

City of Ann Arbor
ENGINEERING UNIT / PUBLIC SERVICES AREA



January 2026

TABLE OF CONTENTS

CONTRACT (C-1 to C-6)	3
SCHEDULE OF PRICING/COST	9
BONDS (B-1 to B-3).....	12
GENERAL CONDITIONS (GC-1 to GC-18)	15
STANDARD SPECIFICATIONS.....	33
DETAILED SPECIFICATIONS.....	34
APPENDIX (APDX-1).....	79
ADDENDA (Add#1-1 to Add#3-1)	149
ATTACHMENTS (B to I).....	155
SAMPLE CERTIFIED PAYROLL FORM.....	164

CONTRACT

THIS CONTRACT is between the CITY OF ANN ARBOR, a Michigan Municipal Corporation, 301 East Huron Street, Ann Arbor, Michigan 48104 ("City") and Toebe Construction ("Contractor"), a State of Michigan Corporation, located at 28990 S Wixom Rd, Wixom, MI 48393.

Based upon the mutual promises below, the Contractor and the City agree as follows:

ARTICLE I - Scope of Work

The Contractor agrees to furnish all of the materials, equipment and labor necessary; and to abide by all the duties and responsibilities applicable to it for the project titled **E. Huron River Drive Retaining Wall Replacement and Road Reconstruction; RPF No. 26-02** in accordance with the requirements and provisions of the following documents, including all written modifications incorporated into any of the documents, all of which are incorporated as part of this Contract:

Non-discrimination and Living Wage Declaration of Compliance Forms (if applicable)	Bonds
Vendor Conflict of Interest Form	General Conditions
Prevailing Wage Declaration of Compliance Form (if applicable)	Standard Specifications
Bid Forms	Detailed Specifications
Contract and Exhibits	Plans
	Addenda

ARTICLE II - Definitions

Administering Service Area/Unit means **Public Services Area / Engineering Unit**

Project means **E. Huron River Drive Retaining Wall Replacement and Road Reconstruction; RPF No. 26-02**

Supervising Professional means the person acting under the authorization of the manager of the Administering Service Area/Unit. At the time this Contract is executed, the Supervising Professional is **David Dykman** whose job title is **Project Manager**. If there is any question concerning who the Supervising Professional is, Contractor shall confirm with the manager of the Administering Service Area/Unit.

Contractor's Representative means **Dave Fischer** whose job title is **Project Manager**.

ARTICLE III - Time of Completion

- (A) The work to be completed under this Contract shall begin immediately on the date specified in the Notice to Proceed issued by the City.
- (B) The entire work for this Contract shall be completed within ninety (90) consecutive calendar days.
- (C) Failure to complete all the work within the time specified above, including any extension granted in writing by the Supervising Professional, shall obligate the Contractor to pay the City, as liquidated damages and not as a penalty, an amount equal to \$1,000.00 for each calendar day of delay in the completion of all the work. If any liquidated damages are unpaid by the Contractor, the City shall be entitled to deduct these unpaid liquidated damages from the monies due the Contractor.

The liquidated damages are for the non-quantifiable aspects of any of the previously identified events and do not cover actual damages that can be shown or quantified nor are they intended to preclude recovery of actual damages in addition to the recovery of liquidated damages.

ARTICLE IV - The Contract Sum

- (A) The City shall pay to the Contractor for the performance of the Contract, the unit prices as given in the Bid Form for the estimated bid total of:

Seven Hundred Eleven Thousand Nine Hundred Fifty-Nine and 00/100 Dollars (\$711,959.00)
- (B) The amount paid shall be equitably adjusted to cover changes in the work ordered by the Supervising Professional but not required by the Contract Documents. Increases or decreases shall be determined only by written agreement between the City and Contractor.

ARTICLE V - Assignment

This Contract may not be assigned or subcontracted any portion of any right or obligation under this contract without the written consent of the City. Notwithstanding any consent by the City to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under this contract unless specifically released from the requirement, in writing, by the City.

ARTICLE VI - Choice of Law

This Contract shall be construed, governed, and enforced in accordance with the laws of the State of Michigan. By executing this Contract, the Contractor and the City agree to venue in a court of appropriate jurisdiction sitting within Washtenaw County for purposes of any action arising under this Contract. The parties stipulate that the venue referenced in this Contract is for convenience and waive any claim of non-convenience.

Whenever possible, each provision of the Contract will be interpreted in a manner as to be effective and valid under applicable law. The prohibition or invalidity, under applicable law, of any provision will not invalidate the remainder of the Contract.

ARTICLE VII - Relationship of the Parties

The parties of the Contract agree that it is not a Contract of employment but is a Contract to accomplish a specific result. Contractor is an independent Contractor performing services for the City. Nothing contained in this Contract shall be deemed to constitute any other relationship between the City and the Contractor.

Contractor certifies that it has no personal or financial interest in the project other than the compensation it is to receive under the Contract. Contractor certifies that it is not, and shall not become, overdue or in default to the City for any Contract, debt, or any other obligation to the City including real or personal property taxes. City shall have the right to set off any such debt against compensation awarded for services under this Contract.

ARTICLE VIII - Notice

All notices given under this Contract shall be in writing, and shall be by personal delivery or by certified mail with return receipt requested to the parties at their respective addresses as specified in the Contract Documents or other address the Contractor may specify in writing. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; or (2) three days after mailing certified U.S. mail.

ARTICLE IX - Indemnification

To the fullest extent permitted by law, Contractor shall indemnify, defend and hold the City, its officers, employees and agents harmless from all suits, claims, judgments and expenses including attorney's fees resulting or alleged to result, in whole or in part, from any act or omission, which is in any way connected or associated with this Contract, by the Contractor or anyone acting on the Contractor's behalf under this Contract. Contractor shall not be responsible to indemnify the City for losses or damages caused by or resulting from the City's sole negligence. The provisions of this Article shall survive the expiration or earlier termination of this contract for any reason.

ARTICLE X - Entire Agreement

This Contract represents the entire understanding between the City and the Contractor and it supersedes all prior representations, negotiations, agreements, or understandings whether written or oral. Neither party has relied on any prior representations in entering into this Contract. No terms or conditions of either party's invoice, purchase order or other administrative document shall modify the terms and conditions of this Contract, regardless of the other party's failure to object to such form. This Contract shall be binding on and shall inure to the benefit of the parties to this Contract and their permitted successors and permitted assigns and nothing in this Contract, express or implied, is intended to or shall confer on any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Contract. This Contract may be altered, amended or modified only by written amendment signed by the City and the Contractor.

ARTICLE XI – Electronic Transactions

The City and Contractor agree that signatures on this Contract may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this Contract. This Contract may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

[Signatures on next page]

[INSERT CONTRACTOR NAME HERE]

CITY OF ANN ARBOR

By: _____

Name: _____

Title: _____

Date: _____

By: _____

Name: Milton Dohoney Jr.

Title: City Administrator

Date: _____

Approved as to substance:

By: _____

Name: Jordan Roberts

Title: Public Services Area
Administrator

Date: _____

Approved as to form:

By: _____

Name: Atleen Kaur

Title: City Attorney

Date: _____

(Signatures continue on following page)

CITY OF ANN ARBOR

By: _____

Name: _____

Title: Mayor _____

Date: _____

By: _____

Name: _____

Title: City Clerk _____

Date: _____

E. Schedule of Pricing/Cost – 20 Points

Company:

Project: E. Huron River Retaining Wall Replacement

File #: 2025-26

RFP#: 26-02

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
01000.00	General				
01001.00	General Conditions, Max. \$50,000.00	LS	1.00	\$ _____	\$ _____
01002.00	Project Supervision, Max. \$10,000.00	LS	1.00	\$ _____	\$ _____
01003.00	Project Clean-Up and Restoration	LS	1.00	\$ _____	\$ _____
01004.00	Digital Audio Visual Coverage	LS	1.00	\$ _____	\$ _____
01022.00	Erosion Control, Silt Fence	Ft	371.00	\$ _____	\$ _____
01024.00	DS_Erosion Control, Straw Wattle, 12 In. Dia.	Ft	50.00	\$ _____	\$ _____
01040.00	Minor Traffic Control, Max \$10,000.00	LS	1.00	\$ _____	\$ _____
01041.00	Traffic Regulator Control	LS	1.00	\$ _____	\$ _____
01050.00	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	330.00	\$ _____	\$ _____
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	120.00	\$ _____	\$ _____
01070.00	Sign, Portable, Changeable Message, Furn & Oper	Ea	3.00	\$ _____	\$ _____
01091.00	Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	12.00	\$ 150.00	\$ 1800.00
02000.00	Removals				
02001.01	Tree, Rem, 6 In. - 12 In.	Ea	17.00	\$ _____	\$ _____
02001.02	Tree, Rem, 13 In. - 19 In.	Ea	2.00	\$ _____	\$ _____
02001.06	DS_Clearing	Ac	0.30	\$ _____	\$ _____
02021.00	HMA Surface, Rem	Syd	928.00	\$ _____	\$ _____
02050.00	Sign, Rem, Salv	Ea	3.00	\$ _____	\$ _____
02060.00	DS_Guardrail, Rem	Ft	412.00	\$ _____	\$ _____
02070.00	DS_Retaining Wall, Rem	Ft	286.00	\$ _____	\$ _____
02080.00	DS_Pavt for Butt Joints, Rem	Syd	58.00	\$ _____	\$ _____

E. Schedule of Pricing/Cost – 20 Points

Company:

Project: E. Huron River Retaining Wall Replacement

File #: 2025-26

RFP#: 26-02

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
03000.00	Earthwork				
03030.01	Exploratory Excavation, SD-TD-1, (0-10' Deep)	Ea	3.00	\$ _____	\$ _____
03050.00	Embankment	Cyd	88.00	\$ _____	\$ _____
03051.00	DS_Granular Backfill	Cyd	4,070.00	\$ _____	\$ _____
03040.00	Earth Excavation	Cyd	3,300.00	\$ _____	\$ _____
03080.00	DS_Mechanically Stabilized Earth Wall, Welded Wire Form, Furn and Install	Sft	2,849.00	\$ _____	\$ _____
04000.00	Sanitary Sewer				
04061.00	Sanitary Structure Cover, Adjust	Ea	1.00	\$ _____	\$ _____
06000.00	Storm and Drainage				
06001.01	12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	20.00	\$ _____	\$ _____
06012.01	12 In., CL IV RCP End Section	Ea	1.00	\$ _____	\$ _____
06013.01	DS_8 In., PVC Storm Sewer, SD-TD-2	Ft	28.00	\$ _____	\$ _____
06042.00	Riprap, Heavy	Syd	38.00	\$ _____	\$ _____
06071.01	DS_Storm Single Inlet, 24 In. Dia., (0-8' deep), Modified	Ea	1.00	\$ _____	\$ _____
06080.01	Storm High Capacity Inlet, 48 In. Dia., (0-8' deep)	Ea	1.00	\$ _____	\$ _____
06080.02	Storm High Capacity Inlet, 48 In. Dia., Additional Depth	Ft	4.00	\$ _____	\$ _____
06160.01	Storm Structure Cover	Ea	1.00	\$ _____	\$ _____
06181.02	Underdrain, Subbase, 6 In.	Ft	610.00	\$ _____	\$ _____
08000.00	Streets, Driveways, & Sidewalks				
08010.03	Aggregate Base, 8 In., 21AA, CIP	Syd	1,406.00	\$ _____	\$ _____
08070.14	HMA, 4EL	Ton	137.00	\$ _____	\$ _____
08070.18	HMA, 5EL	Ton	92.00	\$ _____	\$ _____

E. Schedule of Pricing/Cost – 20 Points

Company:

Project: E. Huron River Retaining Wall Replacement

File #: 2025-26

RFP#: 26-02

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	309.00	\$ _____	\$ _____
08111.00	DS_Shld Gutter, Conc, Det 2	Ea	1.00	\$ _____	\$ _____
08200.11	Pavt Mrkg, Polyurea, 4 In., White	Ft	731.00	\$ _____	\$ _____
08200.12	Pavt Mrkg, Polyurea, 4 In., Yellow	Ft	732.00	\$ _____	\$ _____
08300.00	Monument Box, Adjust	Ea	1.00	\$ _____	\$ _____
08400.00	DS_Post Hole Through Conc	Ea	1.00	\$ _____	\$ _____
08410.00	DS_Guardrail, Type B, 96 inch Post	Ft	413.00	\$ _____	\$ _____
10000.00	Landscaping				
10060.00	DS_Turf Restoration	Syd	580.00	\$ _____	\$ _____
Total Estimated Cost				\$ _____	

PERFORMANCE BOND

- (1) _____ of _____ (referred to as "Principal"), and _____, a corporation duly authorized to do business in the State of Michigan (referred to as "Surety"), are bound to the City of Ann Arbor, Michigan (referred to as "City"), for \$ _____, the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by this bond.
- (2) The Principal has entered a written Contract with the City entitled _____, for RFP No. _____ and this bond is given for that Contract in compliance with Act No. 213 of the Michigan Public Acts of 1963, as amended, being MCL 129.201 et seq.
- (3) Whenever the Principal is declared by the City to be in default under the Contract, the Surety may promptly remedy the default or shall promptly:
- (a) complete the Contract in accordance with its terms and conditions; or
 - (b) obtain a bid or bids for submission to the City for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, arrange for a Contract between such bidder and the City, and make available, as work progresses, sufficient funds to pay the cost of completion less the balance of the Contract price; but not exceeding, including other costs and damages for which Surety may be liable hereunder, the amount set forth in paragraph 1.
- (4) Surety shall have no obligation to the City if the Principal fully and promptly performs under the Contract.
- (5) Surety agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder, or the specifications accompanying it shall in any way affect its obligations on this bond, and waives notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work, or to the specifications.
- (6) Principal, Surety, and the City agree that signatures on this bond may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this bond. This bond may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

SIGNED AND SEALED this _____ day of _____, 202__.

(Name of Surety Company)
By _____
(Signature)
Its _____
(Title of Office)

(Name of Principal)
By _____
(Signature)
Its _____
(Title of Office)

Approved as to form:

Name and address of agent:

Atleen Kaur, City Attorney

LABOR AND MATERIAL BOND

- (1) _____
of _____ (referred to as "Principal"), and _____, a corporation duly authorized to do business in the State of Michigan, (referred to as "Surety"), are bound to the City of Ann Arbor, Michigan (referred to as "City"), for the use and benefit of claimants as defined in Act 213 of Michigan Public Acts of 1963, as amended, being MCL 129.201 et seq., in the amount of \$ _____, for the payment of which Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by this bond.
- (2) The Principal has entered a written Contract with the City entitled _____

_____, for RFP No. _____; and this bond is given for that Contract in compliance with Act No. 213 of the Michigan Public Acts of 1963 as amended;
- (3) If the Principal fails to promptly and fully repay claimants for labor and material reasonably required under the Contract, the Surety shall pay those claimants.
- (4) Surety's obligations shall not exceed the amount stated in paragraph 1, and Surety shall have no obligation if the Principal promptly and fully pays the claimants.
- (5) Principal, Surety, and the City agree that signatures on this bond may be delivered electronically in lieu of an original signature and agree to treat electronic signatures as original signatures that bind them to this bond. This bond may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

SIGNED AND SEALED this _____ day of _____, 202__

(Name of Surety Company)
By _____
(Signature)
Its _____
(Title of Office)

(Name of Principal)
By _____
(Signature)
Its _____
(Title of Office)

Approved as to form:

Atleen Kaur, City Attorney

Name and address of agent:

GENERAL CONDITIONS

Section 1 - Execution, Correlation and Intent of Documents

The contract documents shall be signed in 2 copies by the City and the Contractor.

The contract documents are complementary and what is called for by any one shall be binding. The intention of the documents is to include all labor and materials, equipment and transportation necessary for the proper execution of the work. Materials or work described in words which so applied have a well-known technical or trade meaning have the meaning of those recognized standards.

In case of a conflict among the contract documents listed below in any requirement(s), the requirement(s) of the document listed first shall prevail over any conflicting requirement(s) of a document listed later.

(1) Addenda in reverse chronological order; (2) Detailed Specifications; (3) Standard Specifications; (4) Plans; (5) General Conditions; (6) Contract; (7) Bid Forms; (8) Bond Forms; (9) Bid.

Section 2 - Order of Completion

The Contractor shall submit with each invoice, and at other times reasonably requested by the Supervising Professional, schedules showing the order in which the Contractor proposes to carry on the work. They shall include the dates at which the Contractor will start the several parts of the work, the estimated dates of completion of the several parts, and important milestones within the several parts.

Section 3 - Familiarity with Work

The Bidder or its representative shall make personal investigations of the site of the work and of existing structures and shall determine to its own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved, and all other factors affecting the work proposed under this Contract. The Bidder to whom this Contract is awarded will not be entitled to any additional compensation unless conditions are clearly different from those which could reasonably have been anticipated by a person making diligent and thorough investigation of the site.

The Bidder shall immediately notify the City upon discovery, and in every case prior to submitting its Bid, of every error or omission in the bidding documents that would be identified by a reasonably competent, diligent Bidder. In no case will a Bidder be allowed the benefit of extra compensation or time to complete the work under this Contract for extra expenses or time spent as a result of the error or omission.

Section 4 - Wage Requirements

Under this Contract, the Contractor shall conform to Chapter 14 of Title I of the Code of the City of Ann Arbor as amended; which in part states "...that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of

subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. At the request of the City, any contractor or subcontractor shall provide satisfactory proof of compliance with the contract provisions required by the Section.

Pursuant to Resolution R-16-469 all public improvement contractors are subject to prevailing wage and will be required to provide to the City payroll records sufficient to demonstrate compliance with the prevailing wage requirements. A sample Prevailing Wage Form is provided in the Appendix herein for reference as to what will be expected from contractors. Use of the Prevailing Wage Form provided in the Appendix section or a City-approved equivalent will be required along with wage rate interviews.

Where the Contract and the Ann Arbor City Ordinance are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used.

If the Contractor is a "covered employer" as defined in Chapter 23 of the Ann Arbor City Code, the Contractor agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code. The Contractor agrees to pay those employees providing Services to the City under this Contract a "living wage," as defined in Section 1:815 of the Ann Arbor City Code, as adjusted in accordance with Section 1:815(3); to post a notice approved by the City of the applicability of Chapter 23 in every location in which regular or contract employees providing services under this Contract are working; to maintain records of compliance; if requested by the City, to provide documentation to verify compliance; to take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee or person contracted for employment in order to pay the living wage required by Section 1:815; and otherwise to comply with the requirements of Chapter 23.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision covering subcontractor's employees who perform work on this contract.

Section 5 - Non-Discrimination

The Contractor agrees to comply, and to require its subcontractor(s) to comply, with the nondiscrimination provisions of MCL 37.2209. The Contractor further agrees to comply with the provisions of Section 9:158 of Chapter 112 of Title IX of the Ann Arbor City Code, and to assure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity.

Section 6 - Materials, Appliances, Employees

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation, and other facilities necessary or used for the execution and completion of the work. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and materials shall be of the highest quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

The Contractor shall at all times enforce strict discipline and good order among its employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned.

Adequate sanitary facilities shall be provided by the Contractor.

Section 7 - Qualifications for Employment

The Contractor shall employ competent laborers and mechanics for the work under this Contract. For work performed under this Contract, employment preference shall be given to qualified local residents.

Section 8 - Royalties and Patents

The Contractor shall pay all royalties and license fees. It shall defend all suits or claims for infringements of any patent rights and shall hold the City harmless from loss on account of infringement except that the City shall be responsible for all infringement loss when a particular process or the product of a particular manufacturer or manufacturers is specified, unless the City has notified the Contractor prior to the signing of the Contract that the particular process or product is patented or is believed to be patented.

Section 9 - Permits and Regulations

The Contractor must secure and pay for all permits, permit or plan review fees and licenses necessary for the prosecution of the work. These include but are not limited to City building permits, right-of-way permits, lane closure permits, right-of-way occupancy permits, and the like. The City shall secure and pay for easements shown on the plans unless otherwise specified.

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the contract documents are at variance with those requirements, it shall promptly notify the Supervising Professional in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work.

Section 10 - Protection of the Public and of Work and Property

The Contractor is responsible for the means, methods, sequences, techniques and procedures of construction and safety programs associated with the work contemplated by this contract. The Contractor, its agents or sub-contractors, shall comply with the "General Rules and Regulations for the Construction Industry" as published by the Construction Safety Commission of the State of Michigan and to all other local, State and National laws, ordinances, rules and regulations pertaining to safety of persons and property.

The Contractor shall take all necessary and reasonable precautions to protect the safety of the public. It shall continuously maintain adequate protection of all work from damage, and shall take all necessary and reasonable precautions to adequately protect all public and private property from injury or loss arising in connection with this Contract. It shall make good any damage, injury or loss to its work and to public and private property resulting from lack of reasonable protective precautions, except as may be due to errors in the contract documents, or caused by agents or

employees of the City. The Contractor shall obtain and maintain sufficient insurance to cover damage to any City property at the site by any cause.

In an emergency affecting the safety of life, or the work, or of adjoining property, the Contractor is, without special instructions or authorization from the Supervising Professional, permitted to act at its discretion to prevent the threatened loss or injury. It shall also so act, without appeal, if authorized or instructed by the Supervising Professional.

Any compensation claimed by the Contractor for emergency work shall be determined by agreement or in accordance with the terms of Claims for Extra Cost - Section 15.

Section 11 - Inspection of Work

The City shall provide sufficient competent personnel for the inspection of the work.

The Supervising Professional shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for access and for inspection.

If the specifications, the Supervising Professional's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the Contractor shall give the Supervising Professional timely notice of its readiness for inspection, and if the inspection is by an authority other than the Supervising Professional, of the date fixed for the inspection. Inspections by the Supervising Professional shall be made promptly, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Supervising Professional, it must, if required by the Supervising Professional, be uncovered for examination and properly restored at the Contractor's expense.

Re-examination of any work may be ordered by the Supervising Professional, and, if so ordered, the work must be uncovered by the Contractor. If the work is found to be in accordance with the contract documents, the City shall pay the cost of re-examination and replacement. If the work is not in accordance with the contract documents, the Contractor shall pay the cost.

Section 12 - Superintendence

The Contractor shall keep on the work site, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Supervising Professional. The superintendent will be responsible to perform all on-site project management for the Contractor. The superintendent shall be experienced in the work required for this Contract. The superintendent shall represent the Contractor and all direction given to the superintendent shall be binding as if given to the Contractor. Important directions shall immediately be confirmed in writing to the Contractor. Other directions will be confirmed on written request. The Contractor shall give efficient superintendence to the work, using its best skill and attention.

Section 13 - Changes in the Work

The City may make changes to the quantities of work within the general scope of the Contract at any time by a written order and without notice to the sureties. If the changes add to or deduct from the extent of the work, the Contract Sum shall be adjusted accordingly. All the changes shall be

executed under the conditions of the original Contract except that any claim for extension of time caused by the change shall be adjusted at the time of ordering the change.

In giving instructions, the Supervising Professional shall have authority to make minor changes in the work not involving extra cost and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Supervising Professional, and no claim for an addition to the Contract Sum shall be valid unless the additional work was ordered in writing.

The Contractor shall proceed with the work as changed and the value of the work shall be determined as provided in Claims for Extra Cost - Section 15.

Section 14 - Extension of Time

Extension of time stipulated in the Contract for completion of the work will be made if and as the Supervising Professional may deem proper under any of the following circumstances:

- (1) When work under an extra work order is added to the work under this Contract;
- (2) When the work is suspended as provided in Section 20;
- (3) When the work of the Contractor is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the Contractor, and which were not the result of its fault or negligence;
- (4) Delays in the progress of the work caused by any act or neglect of the City or of its employees or by other Contractors employed by the City;
- (5) Delay due to an act of Government;
- (6) Delay by the Supervising Professional in the furnishing of plans and necessary information;
- (7) Other cause which in the opinion of the Supervising Professional entitles the Contractor to an extension of time.

The Contractor shall notify the Supervising Professional within 7 days of an occurrence or conditions which, in the Contractor's opinion, entitle it to an extension of time. The notice shall be in writing and submitted in ample time to permit full investigation and evaluation of the Contractor's claim. The Supervising Professional shall acknowledge receipt of the Contractor's notice within 7 days of its receipt. Failure to timely provide the written notice shall constitute a waiver by the Contractor of any claim.

In situations where an extension of time in contract completion is appropriate under this or any other section of the contract, the Contractor understands and agrees that the only available adjustment for events that cause any delays in contract completion shall be extension of the required time for contract completion and that there shall be no adjustments in the money due the Contractor on account of the delay.

Section 15 - Claims for Extra Cost

If the Contractor claims that any instructions by drawings or other media issued after the date of the Contract involved extra cost under this Contract, it shall give the Supervising Professional written notice within 7 days after the receipt of the instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property. The procedure shall then be as provided for Changes in the Work-Section I3. No claim shall be valid unless so made.

If the Supervising Professional orders, in writing, the performance of any work not covered by the contract documents, and for which no item of work is provided in the Contract, and for which no unit price or lump sum basis can be agreed upon, then the extra work shall be done on a Cost-Plus-Percentage basis of payment as follows:

- (1) The Contractor shall be reimbursed for all reasonable costs incurred in doing the work, and shall receive an additional payment of 15% of all the reasonable costs to cover both its indirect overhead costs and profit;
- (2) The term "Cost" shall cover all payroll charges for employees and supervision required under the specific order, together with all worker's compensation, Social Security, pension and retirement allowances and social insurance, or other regular payroll charges on same; the cost of all material and supplies required of either temporary or permanent character; rental of all power-driven equipment at agreed upon rates, together with cost of fuel and supply charges for the equipment; and any costs incurred by the Contractor as a direct result of executing the order, if approved by the Supervising Professional;
- (3) If the extra is performed under subcontract, the subcontractor shall be allowed to compute its charges as described above. The Contractor shall be permitted to add an additional charge of 5% percent to that of the subcontractor for the Contractor's supervision and contractual responsibility;
- (4) The quantities and items of work done each day shall be submitted to the Supervising Professional in a satisfactory form on the succeeding day, and shall be approved by the Supervising Professional and the Contractor or adjusted at once;
- (5) Payments of all charges for work under this Section in any one month shall be made along with normal progress payments. Retainage shall be in accordance with Progress Payments-Section 16.

No additional compensation will be provided for additional equipment, materials, personnel, overtime or special charges required to perform the work within the time requirements of the Contract.

When extra work is required and no suitable price for machinery and equipment can be determined in accordance with this Section, the hourly rate paid shall be 1/40 of the basic weekly rate listed in the Rental Rate Blue Book published by Dataquest Incorporated and applicable to the time period the equipment was first used for the extra work. The hourly rate will be deemed to include all costs of operation such as bucket or blade, fuel, maintenance, "regional factors", insurance, taxes, and the like, but not the costs of the operator.

Section 16 - Progress Payments

The Contractor shall submit each month, or at longer intervals, if it so desires, an invoice covering work performed for which it believes payment, under the Contract terms, is due. The submission shall be to the City's Finance Department - Accounting Division. The Supervising Professional will, within 10 days following submission of the invoice, prepare a certificate for payment for the work in an amount to be determined by the Supervising Professional as fairly representing the acceptable work performed during the period covered by the Contractor's invoice. To insure the proper performance of this Contract, the City will retain a percentage of the estimate in accordance with Act 524, Public Acts of 1980. The City will then, following the receipt of the Supervising Professional's Certificate, make payment to the Contractor as soon as feasible, which is anticipated will be within 15 days.

An allowance may be made in progress payments if substantial quantities of permanent material have been delivered to the site but not incorporated in the completed work if the Contractor, in the opinion of the Supervising Professional, is diligently pursuing the work under this Contract. Such materials shall be properly stored and adequately protected. Allowance in the estimate shall be at the invoice price value of the items. Notwithstanding any payment of any allowance, all risk of loss due to vandalism or any damages to the stored materials remains with the Contractor.

In the case of Contracts which include only the Furnishing and Delivering of Equipment, the payments shall be; 60% of the Contract Sum upon the delivery of all equipment to be furnished, or in the case of delivery of a usable portion of the equipment in advance of the total equipment delivery, 60% of the estimated value of the portion of the equipment may be paid upon its delivery in advance of the time of the remainder of the equipment to be furnished; 30% of the Contract Sum upon completion of erection of all equipment furnished, but not later than 60 days after the date of delivery of all of the equipment to be furnished; and payment of the final 10% on final completion of erection, testing and acceptance of all the equipment to be furnished; but not later than 180 days after the date of delivery of all of the equipment to be furnished, unless testing has been completed and shows the equipment to be unacceptable.

With each invoice for periodic payment, the Contractor shall enclose a Contractor's Declaration - Section 43, and an updated project schedule per Order of Completion - Section 2.

Section 17 - Deductions for Uncorrected Work

If the Supervising Professional decides it is inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.

Section 18 - Correction of Work Before Final Payment

The Contractor shall promptly remove from the premises all materials condemned by the Supervising Professional as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute the work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other contractors destroyed or damaged by the removal or replacement.

If the Contractor does not remove the condemned work and materials within 10 days after written notice, the City may remove them and, if the removed material has value, may store the material

at the expense of the Contractor. If the Contractor does not pay the expense of the removal within 10 days thereafter, the City may, upon 10 days written notice, sell the removed materials at auction or private sale and shall pay to the Contractor the net proceeds, after deducting all costs and expenses that should have been borne by the Contractor. If the removed material has no value, the Contractor must pay the City the expenses for disposal within 10 days of invoice for the disposal costs.

The inspection or lack of inspection of any material or work pertaining to this Contract shall not relieve the Contractor of its obligation to fulfill this Contract and defective work shall be made good. Unsuitable materials may be rejected by the Supervising Professional notwithstanding that the work and materials have been previously overlooked by the Supervising Professional and accepted or estimated for payment or paid for. If the work or any part shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good the defect in a manner satisfactory to the Supervising Professional. The judgment and the decision of the Supervising Professional as to whether the materials supplied and the work done under this Contract comply with the requirements of the Contract shall be conclusive and final.

Section 19 - Acceptance and Final Payment

Upon receipt of written notice that the work is ready for final inspection and acceptance, the Supervising Professional will promptly make the inspection. When the Supervising Professional finds the work acceptable under the Contract and the Contract fully performed, the Supervising Professional will promptly sign and issue a final certificate stating that the work required by this Contract has been completed and is accepted by the City under the terms and conditions of the Contract. The entire balance found to be due the Contractor, including the retained percentage, shall be paid to the Contractor by the City within 30 days after the date of the final certificate.

Before issuance of final certificates, the Contractor shall file with the City:

- (1) The consent of the surety to payment of the final estimate;
- (2) The Contractor's Affidavit in the form required by Section 44.

In case the Affidavit or consent is not furnished, the City may retain out of any amount due the Contractor, sums sufficient to cover all lienable claims.

The making and acceptance of the final payment shall constitute a waiver of all claims by the City except those arising from:

- (1) unsettled liens;
- (2) faulty work appearing within 12 months after final payment;
- (3) hidden defects in meeting the requirements of the plans and specifications;
- (4) manufacturer's guarantees.

It shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

Section 20 - Suspension of Work

The City may at any time suspend the work, or any part by giving 5 days notice to the Contractor in writing. The work shall be resumed by the Contractor within 10 days after the date fixed in the

written notice from the City to the Contractor to do so. The City shall reimburse the Contractor for expense incurred by the Contractor in connection with the work under this Contract as a result of the suspension.

If the work, or any part, shall be stopped by the notice in writing, and if the City does not give notice in writing to the Contractor to resume work at a date within 90 days of the date fixed in the written notice to suspend, then the Contractor may abandon that portion of the work suspended and will be entitled to the estimates and payments for all work done on the portions abandoned, if any, plus 10% of the value of the work abandoned, to compensate for loss of overhead, plant expense, and anticipated profit.

Section 21 - Delays and the City's Right to Terminate Contract

If the Contractor refuses or fails to prosecute the work, or any separate part of it, with the diligence required to insure completion, ready for operation, within the allowable number of consecutive calendar days specified plus extensions, or fails to complete the work within the required time, the City may, by written notice to the Contractor, terminate its right to proceed with the work or any part of the work as to which there has been delay. After providing the notice the City may take over the work and prosecute it to completion, by contract or otherwise, and the Contractor and its sureties shall be liable to the City for any excess cost to the City. If the Contractor's right to proceed is terminated, the City may take possession of and utilize in completing the work, any materials, appliances and plant as may be on the site of the work and useful for completing the work. The right of the Contractor to proceed shall not be terminated or the Contractor charged with liquidated damages where an extension of time is granted under Extension of Time - Section 14.

If the Contractor is adjudged a bankrupt, or if it makes a general assignment for the benefit of creditors, or if a receiver is appointed on account of its insolvency, or if it persistently or repeatedly refuses or fails except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials, or if it fails to make prompt payments to subcontractors or for material or labor, or persistently disregards laws, ordinances or the instructions of the Supervising Professional, or otherwise is guilty of a substantial violation of any provision of the Contract, then the City, upon the certificate of the Supervising Professional that sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor 3 days written notice, terminate this Contract. The City may then take possession of the premises and of all materials, tools and appliances thereon and without prejudice to any other remedy it may have, make good the deficiencies or finish the work by whatever method it may deem expedient, and deduct the cost from the payment due the Contractor. The Contractor shall not be entitled to receive any further payment until the work is finished. If the expense of finishing the work, including compensation for additional managerial and administrative services exceeds the unpaid balance of the Contract Sum, the Contractor and its surety are liable to the City for any excess cost incurred. The expense incurred by the City, and the damage incurred through the Contractor's default, shall be certified by the Supervising Professional.

Section 22 - Contractor's Right to Terminate Contract

If the work should be stopped under an order of any court, or other public authority, for a period of 3 months, through no act or fault of the Contractor or of anyone employed by it, then the Contractor may, upon 7 days written notice to the City, terminate this Contract and recover from the City payment for all acceptable work executed plus reasonable profit.

Section 23 - City's Right To Do Work

If the Contractor should neglect to prosecute the work properly or fail to perform any provision of this Contract, the City, 3 days after giving written notice to the Contractor and its surety may, without prejudice to any other remedy the City may have, make good the deficiencies and may deduct the cost from the payment due to the Contractor.

Section 24 - Removal of Equipment and Supplies

In case of termination of this Contract before completion, from any or no cause, the Contractor, if notified to do so by the City, shall promptly remove any part or all of its equipment and supplies from the property of the City, failing which the City shall have the right to remove the equipment and supplies at the expense of the Contractor.

The removed equipment and supplies may be stored by the City and, if all costs of removal and storage are not paid by the Contractor within 10 days of invoicing, the City upon 10 days written notice may sell the equipment and supplies at auction or private sale, and shall pay the Contractor the net proceeds after deducting all costs and expenses that should have been borne by the Contractor and after deducting all amounts claimed due by any lien holder of the equipment or supplies.

Section 25 - Responsibility for Work and Warranties

The Contractor assumes full responsibility for any and all materials and equipment used in the construction of the work and may not make claims against the City for damages to materials and equipment from any cause except negligence or willful act of the City. Until its final acceptance, the Contractor shall be responsible for damage to or destruction of the project (except for any part covered by Partial Completion and Acceptance - Section 26). The Contractor shall make good all work damaged or destroyed before acceptance. All risk of loss remains with the Contractor until final acceptance of the work (Section 19) or partial acceptance (Section 26). The Contractor is advised to investigate obtaining its own builders risk insurance.

The Contractor shall guarantee the quality of the work for a period of one year. The Contractor shall also unconditionally guarantee the quality of all equipment and materials that are furnished and installed under the contract for a period of one year. At the end of one year after the Contractor's receipt of final payment, the complete work, including equipment and materials furnished and installed under the contract, shall be inspected by the Contractor and the Supervising Professional. Any defects shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. Any defects that are identified prior to the end of one year shall also be inspected by the Contractor and the Supervising Professional and shall be corrected by the Contractor at its expense as soon as practicable but in all cases within 60 days. The Contractor shall assign all manufacturer or material supplier warranties to the City prior to final payment. The assignment shall not relieve the Contractor of its obligations under this paragraph to correct defects.

Section 26 - Partial Completion and Acceptance

If at any time prior to the issuance of the final certificate referred to in Acceptance and Final Payment - Section 19, any portion of the permanent construction has been satisfactorily completed, and if the Supervising Professional determines that portion of the permanent construction is not required for the operations of the Contractor but is needed by the City, the Supervising Professional shall issue to the Contractor a certificate of partial completion, and immediately the City may take over and use the portion of the permanent construction described in the certificate, and exclude the Contractor from that portion.

The issuance of a certificate of partial completion shall not constitute an extension of the Contractor's time to complete the portion of the permanent construction to which it relates if the Contractor has failed to complete it in accordance with the terms of this Contract. The issuance of the certificate shall not release the Contractor or its sureties from any obligations under this Contract including bonds.

If prior use increases the cost of, or delays the work, the Contractor shall be entitled to extra compensation, or extension of time, or both, as the Supervising Professional may determine.

Section 27 - Payments Withheld Prior to Final Acceptance of Work

The City may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any certificate to the extent reasonably appropriate to protect the City from loss on account of:

- (1) Defective work not remedied;
- (2) Claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor;
- (3) Failure of the Contractor to make payments properly to subcontractors or for material or labor;
- (4) Damage to another Contractor.

When the above grounds are removed or the Contractor provides a Surety Bond satisfactory to the City which will protect the City in the amount withheld, payment shall be made for amounts withheld under this section.

Section 28 - Contractor's Insurance

- (1) The Contractor shall procure and maintain during the life of this Contract, including the guarantee period and during any warranty work, such insurance policies, including those set forth below, as will protect itself and the City from all claims for bodily injuries, death or property damage that may arise under this Contract; whether the act(s) or omission(s) giving rise to the claim were made by the Contractor, any subcontractor, or anyone employed by them directly or indirectly. Prior to commencement of any work under this contract, Contractor shall provide to the City documentation satisfactory to the City, through City-approved means (currently myCOI), demonstrating it has obtained the required policies and endorsements. The certificates of insurance endorsements and/or copies of

policy language shall document that the Contractor satisfies the following minimum requirements. Contractor shall add registration@mycoitracking.com to its safe sender's list so that it will receive necessary communication from myCOI. When requested, Contractor shall provide the same documentation for its subcontractor(s) (if any).

Required insurance policies include:

- (a) Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

- Bodily Injury by Accident - \$500,000 each accident
- Bodily Injury by Disease - \$500,000 each employee
- Bodily Injury by Disease - \$500,000 each policy limit

- (b) Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 04 13 or current equivalent. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements specifically for the following coverages: Products and Completed Operations, Explosion, Collapse and Underground coverage or Pollution. Further there shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. The following minimum limits of liability are required:

- \$1,000,000 Each occurrence as respect Bodily Injury Liability or Property Damage Liability, or both combined.
- \$2,000,000 Per Project General Aggregate
- \$1,000,000 Personal and Advertising Injury
- \$2,000,000 Products and Completed Operations Aggregate, which, notwithstanding anything to the contrary herein, shall be maintained for three years from the date the Project is completed.

- (c) Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 10 13 or current equivalent. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. The City of Ann Arbor shall be named as an additional insured. There shall be no added exclusions or limiting endorsements that diminish the City's protections as an additional insured under the policy. Further, the limits of liability shall be \$1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.

- (d) Umbrella/Excess Liability Insurance shall be provided to apply excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of \$1,000,000.

- (2) Insurance required under subsection (1)(b) and (1)(c) above shall be considered primary as respects any other valid or collectible insurance that the City may possess, including any self-insured retentions the City may have; and any other insurance the City does possess shall be considered excess insurance only and shall not be required to contribute

with this insurance. Further, the Contractor agrees to waive any right of recovery by its insurer against the City for any insurance listed herein.

- (3) Insurance companies and policy forms are subject to approval of the City Attorney, which approval shall not be unreasonably withheld. Documentation must provide and demonstrate an unconditional and un-qualified 30-day written notice of cancellation in favor of the City of Ann Arbor. Further, the documentation must explicitly state the following: (a) the policy number(s); name of insurance company(s); name and address of the agent(s) or authorized representative(s); name(s), email address(es), and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which may be approved by the City, in its sole discretion; (c) that the policy conforms to the requirements specified Contractor shall furnish the City with satisfactory certificates of insurance and endorsements prior to commencement of any work. Upon request, the Contractor shall provide within 30 days a copy of the policy(ies) and all required endorsements to the City. If any of the above coverages expire by their terms during the term of this Contract, the Contractor shall deliver proof of renewal and/or new policies and endorsements to the Administering Service Area/Unit at least ten days prior to the expiration date.
- (4) Any Insurance provider of Contractor shall be authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company's Key Rating Guide of "A-" Overall and a minimum Financial Size Category of "V". Insurance policies and certificates issued by non-authorized insurance companies are not acceptable unless approved in writing by the City.
- (5) City reserves the right to require additional coverage and/or coverage amounts as may be included from time to time in the Detailed Specifications for the Project.
- (6) The provisions of General Condition 28 shall survive the expiration or earlier termination of this contract for any reason.

Section 29 - Surety Bonds

Bonds will be required from the successful bidder as follows:

- (1) A Performance Bond to the City of Ann Arbor for the amount of the bid(s) accepted;
- (2) A Labor and Material Bond to the City of Ann Arbor for the amount of the bid(s) accepted.

Bonds shall be executed on forms supplied by the City in a manner and by a Surety Company authorized to transact business in Michigan and satisfactory to the City Attorney.

Section 30 - Damage Claims

The Contractor shall be held responsible for all damages to property of the City or others, caused by or resulting from the negligence of the Contractor, its employees, or agents during the progress of or connected with the prosecution of the work, whether within the limits of the work or elsewhere. The Contractor must restore all property injured including sidewalks, curbing, sodding, pipes, conduit, sewers or other public or private property to not less than its original condition with new work.

Section 31 - Refusal to Obey Instructions

If the Contractor refuses to obey the instructions of the Supervising Professional, the Supervising Professional shall withdraw inspection from the work, and no payments will be made for work performed thereafter nor may work be performed thereafter until the Supervising Professional shall have again authorized the work to proceed.

Section 32 - Assignment

Neither party to the Contract shall assign the Contract without the written consent of the other. The Contractor may assign any monies due to it to a third party acceptable to the City.

Section 33 - Rights of Various Interests

Whenever work being done by the City's forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Supervising Professional, to secure the completion of the various portions of the work in general harmony.

The Contractor is responsible to coordinate all aspects of the work, including coordination of, and with, utility companies and other contractors whose work impacts this project.

Section 34 - Subcontracts

The Contractor shall not award any work to any subcontractor without prior written approval of the City. The approval will not be given until the Contractor submits to the City a written statement concerning the proposed award to the subcontractor. The statement shall contain all information the City may require.

The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the General Conditions and all other contract documents applicable to the work of the subcontractors and to give the Contractor the same power to terminate any subcontract that the City may exercise over the Contractor under any provision of the contract documents.

Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the City.

Section 35 - Supervising Professional's Status

The Supervising Professional has the right to inspect any or all work. The Supervising Professional has authority to stop the work whenever stoppage may be appropriate to insure the proper execution of the Contract. The Supervising Professional has the authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

The Supervising Professional shall make all measurements and determinations of quantities. Those measurements and determinations are final and conclusive between the parties.

Section 36 - Supervising Professional's Decisions

The Supervising Professional shall, within a reasonable time after their presentation to the Supervising Professional, make decisions in writing on all claims of the City or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the contract documents.

Section 37 - Storing Materials and Supplies

Materials and supplies may be stored at the site of the work at locations agreeable to the City unless specific exception is listed elsewhere in these documents. Ample way for foot traffic and drainage must be provided, and gutters must, at all times, be kept free from obstruction. Traffic on streets shall be interfered with as little as possible. The Contractor may not enter or occupy with agents, employees, tools, or material any private property without first obtaining written permission from its owner. A copy of the permission shall be furnished to the Supervising Professional.

Section 38 - Lands for Work

The Contractor shall provide, at its own expense and without liability to the City, any additional land and access that may be required for temporary construction facilities or for storage of materials.

Section 39 - Cleaning Up

The Contractor shall, as directed by the Supervising Professional, remove at its own expense from the City's property and from all public and private property all temporary structures, rubbish and waste materials resulting from its operations unless otherwise specifically approved, in writing, by the Supervising Professional.

Section 40 - Salvage

The Supervising Professional may designate for salvage any materials from existing structures or underground services. Materials so designated remain City property and shall be transported or stored at a location as the Supervising Professional may direct.

Section 41 - Night, Saturday or Sunday Work

No night or Sunday work (without prior written City approval) will be permitted except in the case of an emergency and then only to the extent absolutely necessary. The City may allow night work which, in the opinion of the Supervising Professional, can be satisfactorily performed at night. Night work is any work between 8:00 p.m. and 7:00 a.m. No Saturday work will be permitted unless the Contractor gives the Supervising Professional at least 48 hours but not more than 5 days notice of the Contractor's intention to work the upcoming Saturday.

Section 42 - Sales Taxes

Under State law the City is exempt from the assessment of State Sales Tax on its direct purchases. Contractors who acquire materials, equipment, supplies, etc. for incorporation in City projects are not likewise exempt. State Law shall prevail. The Bidder shall familiarize itself with the State Law and prepare its Bid accordingly. No extra payment will be allowed under this Contract for failure of the Contractor to make proper allowance in this bid for taxes it must pay.

Section 43

CONTRACTOR'S DECLARATION

I hereby declare that I have not, during the period _____, 20____, to _____, 20____, performed any work, furnished any materials, sustained any loss, damage or delay, or otherwise done anything in addition to the regular items (or executed change orders) set forth in the Contract titled _____, for which I shall ask, demand, sue for, or claim compensation or extension of time from the City, except as I hereby make claim for additional compensation or extension of time as set forth on the attached itemized statement. I further declare that I have paid all payroll obligations related to this Contract that have become due during the above period and that all invoices related to this Contract received more than 30 days prior to this declaration have been paid in full except as listed below.

There is/is not (Contractor please circle one and strike one as appropriate) an itemized statement attached regarding a request for additional compensation or extension of time.

Contractor

Date

By _____
(Signature)

Its _____
(Title of Office)

Past due invoices, if any, are listed below.

STANDARD SPECIFICATIONS

All work under this contract shall be performed in accordance with the Public Services Department Standard Specifications in effect at the date of availability of the contract documents stipulated in the Bid. All work under this Contract which is not included in these Standard Specifications, or which is performed using modifications to these Standard Specifications, shall be performed in accordance with the Detailed Specifications included in these contract documents.

Standard Specifications are available online:

[City of Ann Arbor Engineering and Contractor Resources](#)

DETAILED SPECIFICATIONS

An item number ending in X.7X and an item's description starting with "DS_" indicates a detailed specification.

<u>Detailed Specification</u>	<u>No. of Pages</u>
DS_ General Construction Notes	1
DS_ Project Schedule	3
DS_ Quantities and Unit Prices	1
DS_ Maintenance of Traffic	3
DS_ Soil Boring Pavement Section and Geotechnical Data.....	1
DS_ Straw Wattle	2
DS_ Clearing	1
DS_ Remove Guardrail	1
DS_ Modified Remove Retaining Wall	1
DS_ Pavement Removal for Butt Joints	1
DS_ MSE Welded Wire Form Wall.....	12
DS_ Riprap.....	1
DS_ 8 Inch PVC Storm Sewer	1
DS_ Modified 24 inch Dia Storm Inlet	1
DS_ HMA Acceptance.....	7
DS_ HMA Application Estimate	1
DS_ Concrete Shoulder Gutter	1
DS_ Post Hole Through Concrete	1
DS_ Guardrail	1
DS_ Turf Restoration.....	3

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
GENERAL CONSTRUCTION NOTES

AA

1 of 1

1/14/26

Description

The following notes pertain to all Plan sheets issued as part of this Contract, and these notes shall be considered part of each Plan Sheet or Detailed Information Sheet.

1. All work shall conform to the latest revision of the City of Ann Arbor Standard Specifications.
2. The Contractor shall maintain access to all drives throughout the course of construction. Drives shall never be closed during non-working hours, unless otherwise authorized in writing by the Engineer.
3. The Contractor shall completely restore all existing site features to better than, or equal to, their existing condition.
4. The Contractor shall be aware that there are above-ground and below-ground utilities existing in and on these streets which include but are not limited to: gas mains and service leads; water mains and service leads; storm sewer mains and service leads; sanitary sewer mains and service leads; telephone poles, wires, cables and conduits; electrical poles, wires, cables and conduits; cable television wires, cables and conduits, and other various utilities. The Contractor shall conduct all of its work so not to damage or alter in any way any existing utility, except where specified on the Plans or as directed by the Engineer. The City has videotaped and cleaned all sanitary and storm sewers, including storm sewer inlet leads, and has found all these facilities to be in good condition, except for those shown on the Plans for repair or replacement.
5. The Contractor is solely responsible for any delays, damages, costs and/or charges incurred due to and/or by reason of any utility, structure, feature and/or site condition, whether shown on the Plans or not, and the Contractor shall repair and/or replace, at its sole expense, to as good or better condition, any and all utilities, structures, features and/or site conditions which are impacted by reason of the work, or injured by its operations, or injured during the operations of its subcontractors or suppliers.
6. No extra payments or adjustments to unit prices will be made for damages, delays, costs and/or charges due to existing utilities, structures, features and/or site conditions not shown or being incorrectly shown or represented on the Plans.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE

AA/SDA:APL

1 of 3

12/02/25

Complete the entirety of work under this Contract in accordance with, and subject to, the scheduling requirements outlined below, and all other requirements of the Contract Documents.

1. The Engineer anticipates that construction can begin on or after **March 30, 2026**, and only upon receipt of the fully executed Contract and Notice to Proceed. Appropriate time extensions may be granted if the Notice to Proceed is delayed beyond this date.
2. This project requires asphalt roadway removal, retaining wall removal, guardrail removal and replacement, mechanically stabilized earth (welded wire form) retaining wall construction, concrete curb and gutter, aggregate base, hot mix asphalt (HMA) paving, bank stabilization, and pavement markings on E. Huron River Drive. The entire project must be completed within **ninety (90) calendar days** from issuance of the notice to proceed.
3. Complete retaining wall construction prior to commencing with road and other related work unless otherwise approved by the Engineer.

The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **January 30, 2026**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance documentation, to the City by **February 23, 2026**. City Council approval to award a contract for this project is expected on **March 2, 2026**. The Contractor shall not begin the work before the applicable date(s) as described herein without approval from the Project Engineer, and in no case before the receipt of the fully executed Contract and Notice to Proceed.

Time is of the essence in the performance of the work of this contract. The Contractor is expected to mobilize sufficient personnel and equipment and work throughout all authorized hours to complete the project by the final completion date. Should the Contractor demonstrate that they must work on some Sundays in order to maintain the project schedule, they may do so between the hours of 9:00 a.m. and 5:00 p.m. with prior approval from the City. There will be no additional compensation due to the Contractor for work performed on Sundays.

Prior to the start of any construction, the Contractor shall submit a detailed schedule of work for the Engineer's review and approval. Work shall not be started until a schedule is approved in writing by the Engineer. The proposed schedule must fully comply with the scheduling requirements contained in this Detailed Specification. The Contractor shall update the approved work schedule upon request by the Engineer and present it to the Engineer within seven days of said request.

The Contractor shall organize, coordinate, and diligently execute the work at the locations shown on the plans and as described below. For this Contract, the "Start of Work" definition is the date when the detour signs become effective, and all required temporary traffic control and SESC measures are in place and ready for use. The Engineer will consider individual streets or phases ready for opening to traffic once all concrete work is complete, utility structures covers are raised to finished grade and placement of the HMA top course is complete. Within 10 days of opening

the street to traffic the Contractor will complete all work, which includes, but is not limited to, minor slope restoration, clean-up, street cleaning, utility structure cleaning, the removal of all temporary traffic control and SESC devices and detour signs, and other necessary work and as directed by the Engineer. Failure to complete work in a timely manner may result in the suspension of active project work or a delay in starting subsequently planned project work.

Failure to open to traffic or complete all work as specified within the time specified, including time extensions granted thereto as determined by the Engineer, will entitle the City to deduct from the payments due the Contractor, **\$1,000.00** in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each calendar day the work remains incomplete.

Assessment of Liquidated Damages will occur until the required work is complete in the current construction season. If, with the Engineer's approval, work extends beyond the seasonal suspension period (November 15 through April 15), the City will not assess Liquidated Damages until the Contractor resumes and completes the work in the following construction season.

The following workday, hour and other work restrictions are imposed by the City of Ann Arbor.

Contractor operations shall be limited by local municipality work time, noise, and dust ordinance:

- Monday through Friday: 7:00 am – 8:00 p.m.
- Saturday: 7:00 a.m.– 8:00 p.m.; Give notice to Engineer no less than 48 hours and no more than 5 days in advance.
- Sunday: Only with written approval from the City of Ann Arbor

Perform no work during the following Holiday periods unless approved in advance by the Engineer:

- Memorial Day - 3:00 p.m. Friday, May 22, 2026, through 7:00 a.m. Tuesday, May 26, 2026.
- Juneteenth - 3:00 p.m. Wednesday, June 18, 2026, through 7:00 a.m. Monday, June 22, 2026.
- Independence Day - 3:00 p.m. Thursday, July 2, 2026, through 7:00 a.m. Monday, July 6, 2026.
- Labor Day - 3:00 p.m. Friday, September 4, 2026, through 7:00 a.m. Tuesday, September 8, 2026

Perform no work during the following scheduled University of Michigan home football game dates unless approved in advance by the Engineer:

- September 7, 2026
- September 12, 2026
- September 19, 2026
- Other home games TBA

Working in the Rain

The Contractor shall not work in the rain unless authorized in writing by the Engineer. The

Engineer may delay or stop the work due to threatening weather conditions.

The Contractor shall not be compensated for unused materials or downtime due to rain, or the threat of rain.

The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties, which are caused as a result of working in the rain.

Working in the Dark

The Contractor shall not work in the dark except as approved by the Engineer and only when lighting for night work is provided as detailed elsewhere in this contract.

The Engineer may stop the work or may require the Contractor to defer certain work to another day if, in the Engineer's opinion, the work cannot be completed within the remaining daylight hours or if inadequate daylight is present to either properly perform or inspect the work.

The Contractor will not be compensated for unused materials or downtime when delays or work stoppages are directed by the Engineer for darkness and/or inadequate remaining daylight reasons.

The Contractor is solely responsible for repairing all damages to the work and to the site, including road infrastructures, road subgrades, and any adjacent properties resulting from working in the dark.

If the construction Contract is not completed within the specified period(s) including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor, this Contract may be terminated with no additional compensation due to the Contractor, and the Contractor may be forbidden to bid on future City of Ann Arbor projects for a period of at least three (3) years. If the Engineer elects to terminate the Contract, Contract items paid for on a Lump Sum basis shall be paid up to a maximum percentage equal to the percentage of the Contract work that has been completed.

The City's decision to add or delete work, change the construction limits, or the City's contribution to a delay of the construction shall not entitle the Contractor to receive additional compensation, nor shall it relieve the Contractor of any responsibility for completion of work.

Include any/all efforts to organize, coordinate, and schedule the project work in the contract unit price bid for the pay item **General Conditions, Max \$___**.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
QUANTITIES AND UNIT PRICES

AA

1 of 1

1/14/26

Contract Drawings / Plans

Offerors/proposers shall carefully check and review all Drawings, plans, and specifications, and advise the Engineer of any errors or omissions discovered. The Drawings/Plans may be supplemented by such additional Drawings/Plans and sketches as may be necessary or desirable as the work progresses. The Contractor shall perform all work shown on any additional or supplemental Drawings/Plans issued by the Engineer.

Offeror/proposer shall carefully examine the Schedule of Pricing/Cost Form, preliminary layouts, specifications, and the work sites until it is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the proposal shall be considered prima facie evidence that the Offeror/Proposer has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the contract.

Quantities and Unit Prices

Quantities as given are approximate and are estimated for bidding purposes. Quantities are not guaranteed and may vary by any amount. While it is the City's intent to complete the project substantially as drawn and specified herein, quantities may be changed or reduced to zero for cost savings or other reasons. **The City reserves the right to change the quantities, delete work, or add work, and no adjustment in unit price will be made for any change in any quantity.**

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MAINTENANCE OF TRAFFIC

AA/SDA:DAD

1 of 3

1/14/26

Description

Maintain traffic in accordance with Articles 10 and 11 of the City of Ann Arbor Public Services Department 2024 Standard Specifications and as specified in sections 104.11, 812, and 922 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, the 2011 Michigan Manual of Uniform Traffic Control Devices (MMUTCD), and as described herein.

Furnish, erect, maintain and, upon completion of the work, remove all traffic control devices and barricade lights as required on the project for the safety and protection of local traffic. This includes, but is not limited to, temporary advance, regulatory, and warning signs; barricades and channelizing devices at intersections and on streets where traffic is to be maintained; barricades at the ends of the project and at right-of-way lines of intersecting streets, and traffic control devices for moving construction operations.

Materials

Provide materials and equipment shall meet the requirements specified by Article 10 of the City of Ann Arbor 2024 Standard Specifications, sections 812.02 and 922 of the MDOT 2020 Standard Specifications for Construction and the 2011 MMUTCD.

Maintenance of Local Traffic

Unless otherwise indicated on the plans, all side roads shall not be closed to through traffic except during construction operations of short duration and only upon written approval of the Engineer.

Always maintain local access for emergency vehicles, refuse pick-up, mail delivery, school buses, and ingress/egress to public and private properties.

The Contractor must accommodate the safe access to the residential buildings and businesses located within the construction area.

Driveways shall not be blocked for extended periods of time unless arrangements can be made with the affected property owner(s). When it becomes necessary to temporarily block driveways, the Contractor shall notify the affected property owners in advance to coordinate the work and allow sufficient time for vehicles to vacate from properties. It may be necessary to allow vehicles to temporarily park in the roadway at locations that do not interfere with the Contractor's work. During these periods the owners of the respective vehicles must be available to, with proper notice, move their vehicles if it becomes necessary to accommodate the work.

At times, it may be necessary to temporarily obstruct local traffic during the performance of the work. The Contractor shall provide traffic regulator control in conformance with Chapter 6E of the MMUTCD, Sections 6E.01 thru 6E.08. A minimum of two traffic regulators are required. The cost of traffic regulator control shall be included in the contract pay item "**Traffic Regulator Control**".

The Contractor shall use quantities of dust palliative, maintenance aggregate, and cold patching/HMA mixtures for use as temporary base, surfacing, and dust control at utility crossings, side roads and driveways (wherever required to maintain traffic), and where directed by the Engineer to maintain local access. The cost for the use of dust palliative, maintenance aggregate, cold patch and/or hot mix asphalt mixture 36A, as required and directed by the Engineer for maintenance of traffic and local access, shall be included in Contract pay item "**General Conditions, Max \$_____**", and it will not be paid for separately.

The work of maintaining and relocating existing warning, regulatory and/or guide signs is included in the bid price for the contract pay item "**Minor Traffic Control, Max \$_____**".

Mailboxes and newspaper boxes that are in the way of the construction shall be removed and reset immediately in a temporary location approved by the Engineer. Mail and paper delivery shall not be interrupted during the construction. Upon completion of the construction, all mailboxes and newspaper boxes, including their supports, shall be repositioned in their permanent locations as approved by the Engineer. This work shall be included in the contract unit price for the contract pay item "**General Conditions, Max \$_____**", and it will not be paid for separately.

The Contractor shall perform the work of this Contract while maintaining traffic in accordance with the Contract Documents as specified herein. No traffic shall be allowed on newly placed asphalt surfaces until rolling has been satisfactorily completed and the surface has cooled sufficiently to prevent damage from traffic. This is to be accomplished by flag persons and by relocating traffic control devices to prevent traffic from entering the work area until such time that it can be safely maintained without damaging the new construction. The Contractor shall provide traffic regulators in sufficient number to maintain traffic as described herein, and to keep traffic off sections being surfaced, and always provide for safe travel as directed by the Engineer. The work of traffic regulators shall be included in the bid price for the contract pay item "**Minor Traffic Control, Max \$_____**".

Each pressure distributor, paver and roller shall be equipped with at least one approved flasher light which shall be mounted on the equipment to give a warning signal ahead and behind.

Construction Influence Area (CIA) - The CIA shall include the proposed work areas within the right-of-way of the four proposed construction locations. The CIA shall include the affected portions of the driveways along and contiguous with these roadways.

In addition, the CIA shall include the rights-of-way of all roadway segments used for detours and all locations that contain advance warning and/or regulatory signs, pavement markings, plastic drums, traffic delineators, and all other project related traffic maintenance items.

Police and Fire - The Contractor shall notify local police, fire departments and emergency response units a minimum of three business days (72 hours) prior to the closure of any roads, or traffic shifts causing restricted movements of traffic or restricted access.

Work performed by City of Ann Arbor Signs and Signals Unit - No additional or extra compensation will be paid for any delays caused by City of Ann Arbor Signs and Signals.

Sign Removals and Storage

The Contractor shall remove and store the signs as shown on the plans and as directed by the Engineer. After construction is complete, but before opening any roadway to traffic, Signs and Signals will reinstall all signs in their proper, permanent location. To coordinate sign removal and installation/reinstallation, the Contractor shall notify the Signs and Signals Unit at least five (5) working days (Monday-Friday) in advance of when the sign work will need to be completed. It is the responsibility of the Contractor to ensure that City of Ann Arbor Signs and Signals Unit is scheduled, kept apprised of the progress of construction, and notified a second time immediately (4 working hours) prior to the need to complete the sign work. The installation/reinstallation of all signs shall be completed by the City of Ann Arbor Signs and Signals Unit.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
SOIL BORING, PAVEMENT SECTION AND GEOTECHNICAL DATA

AA

1 of 1

1/14/26

Description

Data pertaining to existing soil borings and pavement sections which may be included in these Contract Documents are provided to help the Engineer and Contractor determine the soil conditions existing within the construction area. The City in no way guarantees existing conditions to be the same as shown in the data. The Contractor is solely responsible for any/all conclusions it may draw from the data.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
STRAW WATTLE

AA/SDA:APL

1 of 2

8/06/24

Description

Furnish and install Straw Wattles as Soil Erosion/Sedimentation Control measure(s) according to the plans and as directed. Perform this work according to Division 2 of the Michigan Department of Transportation 2020 Standard Specifications for Construction Article 8 of the City of Ann Arbor (CAA) Standard Specifications for Construction, and as specified herein.

Materials

Furnish Straw Wattles manufactured from 100% weed seed free agricultural straw, completely encased in a tight, tubular, biodegradable netting, cinched or knotted on each end in lengths suitable for the intended use to minimize splicing. Furnish biodegradable Wattle netting with 18-month duration and with 1/2-inch nominal aperture size. Furnish Wattles of the diameter shown on the plans, with corresponding minimum density specified below:

Diameter (inches)	9	12	20
Minimum Density (lbs/ft ³)	3.2	3.3	2.4

Furnish 1-inch by 1-inch nominal rectangular wood stakes, minimum 30 inches long. Furnish the Manufacturer's published installation guidelines at least 3 business days prior to installation. Furnish General Certification for material acceptance.

Construction

Install Straw Wattles according to the Manufacturer's installation guidelines and as specified herein. Place the Wattle parallel to contours along slopes (toe and/or mid-slope, per plans) and across ditch bottoms. Countersink the Wattle in a 2-inch trench, with the ends turned up 1 to 2 feet up-slope to prevent water flow around the ends. In ditches, grade a low point to cause the weir elevation at the middle of ditch bottom. Secure the Wattle with wood stakes driven through the center of Wattle to 24-inch embedment, and 2-inch maximum protrusion above the wattle. Place stakes along the Wattle at 4 foot maximum spacing, not greater than 2 feet from Wattle ends. Transition between Wattle segments with a staked, 6-inch overlap, or butt joints secured with organic (e.g. coir) twine.

Maintain Straw Wattles in place, replacing broken or deteriorated Wattles as directed. Remove accumulated settlement as directed. Except as otherwise directed, remove Straw Wattles upon full vegetation establishment. Restore un-vegetated areas as directed upon removal.

Measurement and Payment

The completed work for **DS_Erosion Control Straw Wattle, _ In. Dia.** will be measured in place and paid for per foot at the contract unit price, exclusive of splice overlaps.

Pay Item

Pay Unit

DS_Erosion Control, Straw Wattle, _ In. Dia..... Foot

Payment for **DS_Erosion Control, Straw Wattle, _ In. Dia.** includes all equipment, labor, and materials to furnish and install wattles as specified, to remove wattles upon vegetation establishment, except as otherwise directed and sediment removal as required or as directed. Except where damaged by the Contractor's activities, broken and/or deteriorated Straw Wattles replaced as directed will be paid for separately.

Restoration of un-vegetated areas upon removal of Straw Wattles will be paid for separately as **DS_Turf Restoration** or **DS_Slope Restoration, Native Grass** as applicable.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
CLEARING

AA/SDA:APL

1 of 1

05/03/24

Description

This work shall consist of removing and disposing of all brush, trees, ground cover and miscellaneous debris as shown on the construction plans in accordance with Section 201 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as modified herein.

Construction

Perform work in accordance with Subsection 201.03 MDOT 2020 Standard Specifications for Construction.

The contract unit price shall be payment in full for all materials, equipment and labor for removing and disposing of any trees not specifically included in tree removal pay items, bushes, brush, ground cover and miscellaneous debris.

Also included with this work shall be any regrading of the immediate area around said work for the purpose of providing drainage routes to installed catch basins, and slope clean-up around repaired slope drains, as required and/or directed by the Engineer. This work shall be entirely completed prior to Contractor placing topsoil, seed, fertilizer and mulch, sodding, or other specified slope treatment as required for the contract.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location using the following pay item:

Pay Item	Pay Unit
DS_Clearing	Acre

Measure **DS_Clearing** per acre for the area in which the work was performed, including furnishing all materials, labor and equipment required to complete the work, as specified.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
REMOVE GUARDRAIL

AA/SDA:APL

1 of 1

01/14/26

Description

This work includes the removal of an existing steel guardrail and disposing of all materials, posts and foundations (if present) where shown on the plans in accordance with Section 204 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as described herein.

Materials

Provide materials where required in accordance with those specified in Subsection 204.02 of the MDOT 2020 Standard Specifications for Construction.

Construction

Completely remove and dispose of guardrail, hardware, posts and any other material to the full depth where shown on the plans according to subsection 204.03 of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer.

Backfill post holes as required per subsection 204.03 of the MDOT 2020 Standard Specifications for Construction.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location using the following pay item:

Pay Item	Pay Unit
DS_Guardrail, Rem	Foot

Measure **DS_Guardrail, Rem** length in place by the unit foot and pay for it at the contract unit price, which price includes all cost for labor, equipment, and materials necessary to complete the work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MODIFIED RETAINING WALL REMOVAL

AA/SDA:APL

1 of 1

04/03/24

Description

This work includes the removal of an existing steel guardrail retaining wall and disposing of all materials, posts and foundations (if present) where shown on the plans in accordance with Section 204 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as described herein.

Materials

Provide materials where required in accordance with those specified in Subsection 204.02 of the MDOT 2020 Standard Specifications for Construction.

Construction

Completely remove and dispose of guardrail, hardware, geotextile fabric, posts and any other material comprising the existing retaining wall to the full depth as shown on the plans according to subsection 204.03 of the MDOT 2020 Standard Specifications for Construction, and as directed by the Engineer.

Backfill post holes as required per subsection 204.03 of the MDOT 2020 Standard Specifications for Construction.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location using the following pay item:

Pay Item	Pay Unit
DS_Retaining Wall, Rem, Modified.....	Foot

Measure **DS_Retaining Wall, Rem, Modified** in place by the unit linear foot along the top of the wall and pay for it at the contract unit price, which includes the costs for all labor, equipment, and materials necessary to complete the work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PAVEMENT REMOVAL FOR BUTT JOINTS

AA/SDA:APL

1 of 1

05/23/24

Description

This work shall consist of removing and disposing of an existing paved surface to the thickness of the proposed overlay for the full width of the joint as shown on the construction plans in accordance with Section 501 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as modified herein.

Construction

Pavement removal for butt joints shall consist of saw cutting the existing paved surface to the full depth of the expected placement and removing the existing surface by milling or chipping to that depth for the areas shown on the plans or as directed by Engineer.

The contract unit price shall be payment in full for all materials, equipment and labor for removing and disposing of removed pavement materials and any miscellaneous debris.

Perform work in accordance with Subsection 501 MDOT 2020 Standard Specifications for Construction.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location using the following pay item:

Pay Item	Pay Unit
DS_Pavt for Butt Joints, Rem	Square Yard

Measure **DS_ Pavt for Butt Joints, Rem** per square yard for the area in which the work was performed, including furnishing labor and equipment required to complete the work and disposing of all materials, as specified.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MECHANICALLY STABILIZED EARTH WELDED WIRE FORM WALL

SDA:APL/DJT

1 of 12

01/15/26

Description

This work consists of the design, manufacture, furnishing and installing of mechanically stabilized earth (MSE) walls in accordance with the plans, plans per the requirements of the City of Ann Arbor (CAA) 2025 Standard Specifications for Construction and the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as specified herein.

The following definitions apply when used herein and on the plans:

MSE WWF Wall System. A soil-retaining system employing either strip or grid-type metallic tensile (inextensible) soil reinforcement, or geosynthetic grid-type (extensible) soil reinforcement in the soil mass and a facing that is vertical or nearly vertical (battered). The system includes wire facing units, steel or geosynthetic soil reinforcement, connecting hardware, leveling pad, special corner components and any other materials necessary to complete the work.

Manufacturer. The individual or legal entity that performs part of the work through a contract agreement with the Contractor. This includes an individual or legal entity that owns the patent, product trademark, product copyright or product name for the approved MSE wall system. This includes an individual or legal entity that supplies materials for construction of the MSE wall system. This includes an individual or legal entity that fabricates components of the MSE wall system through a licensing agreement with the owner of the patent, product trademark, product copyright or product name.

Designer. An individual who is a Professional Engineer licensed in the State of Michigan, is employed by the manufacturer or a company that is a subcontractor to the Contractor and is responsible for the design and working drawings required herein.

Checker. A Professional Engineer licensed in the State of Michigan who is employed by the same company as the Designer and is responsible for verifying and checking the design and working drawings developed by or under supervision of the Designer.

Load and Resistance Factor Design (LRFD). The *AASHTO LRFD Bridge Design Specifications*, which the design must satisfy unless otherwise specified herein.

Table 1: Approved MSE Wall Systems

Manufacturer	Wire Faced Form Systems
Hilfiker Retaining Walls 1902 Hilfiker Lane Eureka, California 95503-5711 (800) 762-8962 www.hilfiker.com	Welded Wire Wall
Reinforced Earth Company 1444 North Farnsworth Ave., Suite 505 Aurora, Illinois 60505 (630) 898-3334 www.reinforcedearth.com	TerraTrel®
Strata Systems 1831 North Park Avenue Burlington, NC 27217-1100 USA 800.680.7750 https://www.geogrid.com	StrataWall® System
Tensar Earth Retention Systems 2500 Northwinds Parkway, Suite 500 Alpharetta, GA 30009 (800) TENSAR-1 https://www.tensarcorp.com	SierraScape®
Earth Retention LLC Rope Mill Parkway Woodstock, GA 30188 678.903.3614 www.earthretention.com	Welded Wire Form System
SSL 4740 Scotts Valley Drive, Suite E Scotts Valley, California 95066 (831) 430-9300 www.mseplus.com	SSL welded wire-faced MSE system

Design

The Engineer has performed an external stability analysis of the reinforced soil mass in accordance with LRFD. The external stability consisted of analyzing global stability (deep-seated failures), sliding stability of the reinforced soil mass, overturning of the reinforced soil mass and bearing resistance of the subgrade. The external stability was initially checked using the minimum soil reinforcement length required by LRFD. If additional soil reinforcement length was required, the plans indicate the minimum reinforcement length "L" required to achieve external stability. Seismic forces were not included in the external stability analysis.

Designer Responsibility. The Designer is responsible for the internal stability of the reinforced soil mass and all components of the MSE wall system. Perform the design in accordance with

the specific LRFD articles referenced and to all other applicable LRFD articles, except as specified herein. Specify the facing unit batter necessary to prevent outward rotation of the MSE wall system during loading. Do not apply seismic forces for the internal stability design.

Design MSE walls with welded wire form facing units for a 100-year service life for permanent installations in accordance with *LRFD Article 11.10.6.4.2*.

- A. Internal Stability. Satisfy *LRFD Article 11.10.6*. Use only the Simplified Method to compute the internal stability including definition of the failure plane. Use a friction angle of 32 degrees and a unit weight of 120 pcf for soil within the reinforced soil mass. Extend the soil reinforcement sufficiently beyond the failure plane to stabilize the retained backfill material. In the absence of site-specific information, assume the retained backfill material behind the reinforced soil mass to be cohesionless with a friction angle of 30 degrees and a unit weight of 120 pcf.

Account for external loads which affect the internal stability such as those applied through piling, bridge footings, traffic, slopes, surcharges, differential hydrostatic pressures, lateral loads from parapets, traffic barriers, guardrail posts, soundwalls, light poles and sign supports.

Account for vehicle collision force. Design MSE wall for vehicular collision force per sections *3.6.5.1 and C3.6.5.1 of the LRFD*. The vehicular collision force is to be assumed to act in a direction of 15 degrees with the edge of the pavement in a horizontal plane and to be distributed over an area 5 feet long by 2 feet high.

- B. Live Load Surcharge. Use a unit weight of 120 pcf for surcharges.
1. Traffic Loading. Apply live load surcharges in accordance with *LRFD Article 3.11.6.4*. Do not use a surcharge less than 3 feet in height.
 2. Loading other than Traffic. Apply surcharges in accordance with *LRFD Articles 3.11.6.1 through 3.11.6.3*.
- C. Traffic Loads on Barriers. Apply impacts to barriers in accordance with *LRFD Article 11.10.10.2*.
- D. Hydrostatic Pressures. Satisfy *LRFD Article 11.10.10.3*. Consider the high-water level to be the 100-year event shown on the plans.
- E. Obstructions in the Reinforced Soil Mass. Satisfy *LRFD Article 11.10.10.4*. Account for all obstructions/appurtenances behind, in front of, under, mounted upon, or passing through the wall such as drainage structures, traffic barrier, utilities, abutments, piers, piles, guardrail posts or other items shown on the plans in the stability design of the wall and in details of all connections and soil reinforcement. Accurately show all obstructions/appurtenances on the working drawings. Notify the Engineer of any potential irresolvable conflicts prior to fabrication. The splay angle of soil reinforcement is limited to a maximum of 15 degrees per *LRFD C11.10.10.4*.
- F. MSE Abutments. Satisfy *LRFD Article 11.10.11* for MSE walls interfacing with bridge abutments, piers, and other structures as necessary.

- G. Wall Embedment and Leveling Pad. Embed facing units not less than 24 inches (measured to the top of the leveling pad), unless otherwise specified on the plans. For sloping ground (1V:4H or steeper) in front of the wall the MSE wall embedment must be per *LRFD Articles 11.10.2.2 and C11.10.2.2* and a minimum 4-foot-wide bench in front of the wall provided. Leveling pad elevations are the responsibility of the Designer unless otherwise shown on the plans. Provide a leveling pad extending 6 inches beyond the front face and embedment limits of the facing units to the depth shown on the plans. Leveling pads may need to be wider for curved wall alignments. Do not use a leveling pad less than 12 inches wide nor less than 8 inches in thickness. Facing units overhanging leveling pads are prohibited.
- H. Soil Reinforcement. Satisfy *LRFD Articles 11.10.2.1. and 11.10.6*. Limit vertical spacing of soil reinforcement for wire faced walls to 2 feet maximum. Connect all designed soil reinforcements placed in the reinforced soil mass to the facing units. Do not design for a yield strength of more than 65 Kips per square inch (ksi).

Determine the required length of the soil reinforcement by design, but do not use a length less than all of the following for walls without a sloping backslope:

- 0.7 times the wall height (H) as depicted in *LRFD Figure 11.10.2-1*;
- 8 feet or;
- As noted on the plans.

Determine the required length of the soil reinforcement by design, but do not use a length less than all of the following for walls with a sloping backslope:

- 0.8 times the wall height (H) as depicted in *LRFD Figure 11.10.2-1*;
- 8 feet or;
- As noted on the plans.

Use a uniform soil reinforcement length throughout the entire height of the wall for each design wall section.

- I. Welded Wire Facing Units. Satisfy *LRFD Articles 11.10.2.3 and 11.10.6*.
- J. Special Corner Units. Satisfy *LRFD Articles 11.10.2.3 and 11.10.6*. Design special corner units for walls where a change of direction from a straight line creates an included angle of 120 degrees or less. Ensure corner elements are separated from the adjacent wire facing units and secured by means of separate soil reinforcement. Include isolation joints that function similar to corner units in the design and working drawings to increase tolerance for differential settlement when necessary. When two intersecting walls form an enclosed angle of 70 degrees or less, ensure the affected portion of the walls is designed as an internally tied bin structure with at-rest earth pressure coefficients.
- K. Reinforcement and Connections. Ensure reinforcement is PE, polypropylene or high-tenacity polyester resistant to UV oxidation and has been evaluated by *AASHTO NTPEP*. Ensure reinforcement is shown to retain a minimum of 70 percent strength after 500 hours in a weatherometer when tested in accordance with *ASTM D4355/D4355M*. Furnish a test data certification in accordance with the *MQAP Manual*.

- L. Part-Width Construction. Provide all required MSE wall details necessary for construction when bridge substructure is built using part-width construction techniques.

Submittals

Submit complete design calculations, working drawings, notes, and material specifications for the proposed wall system to the Engineer for review prior to fabrication. Do not start fabrication until approval has been received from the Engineer. The Engineer will require up to 21 calendar days for each review cycle and revisions may be required following each review. No extension of time or additional compensation will be granted due to delays in preparing the final working drawings, calculations and material specifications or securing approval from the Engineer.

Include detailed design calculations, working drawings, notes, and material specifications in every submittal. Ensure all submittals are in PDF files submitted to the Engineer. Hard copies of submittals will not be accepted. A submittal set, indicating revisions to be made, will be returned following each review. Revise and furnish the final detailed design calculations, working drawings, notes, and material properties sealed by the Designer for distribution. Ensure the Designer's seal is clearly visible on the calculations and working drawings.

Submittal requirements contained herein apply to both permanent and temporary MSE walls.

- A. Calculations. Provide detailed design calculations, notes, and material specifications on 8.5 by 11-inch sheets and include the City's project designations (project name and job number), wall designations, page number, date of preparation and initials of the Designer and Checker.

Provide design calculations and explanatory notes that are legible and that demonstrate the design criteria have been met. Include example hand calculations for the tallest wall and most severe external loading conditions for project specific sections which illustrate conformance of the computer programs with the design criteria. Clearly indicate the factored loads and factored resistance in the calculation of sliding, pullout, overturning and the applied bearing pressure. At a minimum, include the design of the facing units, connections, and soil reinforcement in the calculations.

- B. Working Drawings. Prepare working drawings on 11 by 17-inch sheets including borders. Provide a title block in the lower right-hand corner of each sheet. Include the sheet number, wall name or designation and the City's project designations (project name and job number) within all title blocks.

Include all details, dimensions, quantities, and cross sections on the working drawings necessary to construct the wall for full or part-width construction including, but not limited to the following items:

1. Plan and elevation sheets for each wall showing the following:
 - a. Elevation views of the walls must note top of wall elevations (defined as where the finished grade intersects the back of the wall face) at all horizontal and vertical break points and at least every 50 feet along the wall face; top of leveling pad elevations at all steps and at least every 50 feet along the wall face; length, type and size of soil reinforcement; location of changes in soil reinforcement embedment length and type;

- original and final ground lines; and applied bearing pressure.
- b. Plan views of the walls must note the offsets from the construction centerline to the wall reference line at all changes in horizontal alignments and beginning and ending stations of the wall. The location and size of any obstructions/appurtenances that are behind, in front of, under, mounted upon, or passing through the wall (i.e. drainage structures, traffic barrier, utilities, abutments, piers, piles, or guardrail posts or other items shown on the plans) must also be clearly shown.
 - c. Typical cross sections showing the relationship between existing ground elevations and proposed grades, construction limits, excavation limits and fill requirements. Include obstructions/appurtenances that are behind, in front of, under, mounted upon, or passing through the wall such as drainage structures, traffic barrier, utilities, abutments, piers, piles, guardrail posts or other plan items.
 - d. Construction and material specification notes.
 - e. Horizontal and vertical curve data for laying out and constructing the walls.
 - f. Summary of material quantities on the elevation sheet of each wall.
2. Detail sheets for each wall showing the following:
- a. Leveling pad details showing elevations and dimensions at all steps for the full length of the wall.
 - b. Details showing all dimensions necessary to construct the welded wire forms and the location of soil reinforcement connection elements. Include position tolerances for connection elements in the details.
 - c. Parapet barriers, curbs, sidewalks, etc. to be placed on top of the wall.
 - d. Construction around obstructions/appurtenances that are behind, in front of, under, mounted upon, or passing through the wall such as drainage structures, traffic barrier, utilities, abutments, piers, piles, guardrail posts or other items shown on the plans. Show details for diverting reinforcement elements around obstructions for each specific occurrence.
 - e. Foundation underdrains and impervious membrane details as required.

Materials

The basis of acceptance for all materials not addressed by the CAA 2025 or MDOT 2020 Standard Specifications nor specified herein will be a Test Data Certification in accordance with the MDOT *Materials Quality Assurance Procedures (MQAP) Manual*. Provide all test data certifications to the Engineer prior to material use.

1. Wire Facing Unit. Fabricate from cold drawn steel wire in accordance with *AASHTO M32* and welded into the finished configuration in accordance with *AASHTO M55*. Galvanize after

wire mesh is fabricated in accordance with *AASHTO M111*. The wire facing unit does not need to be galvanized if it is part of a completely independent temporary wall in service for 7 months or less (and not through the Seasonal Suspension).

2. Inextensible Soil Reinforcement. Galvanize steel inextensible soil reinforcement for permanent walls in accordance with *AASHTO M111* for strip-type or *ASTM A641* for grid-type. Galvanize soil reinforcement for temporary walls in accordance with *AASHTO M111* for strip-type or *ASTM A641* for grid-type where the reinforced soil mass for the temporary wall overlaps the reinforced soil mass for a permanent wall or when specified by the Designer.
 - A. Strip-Type. Ensure steel strip reinforcement is hot rolled to the required shape and dimensions. The steel must conform to *ASTM A572*, Grade 65.
 - B. Grid-Type. Fabricate soil reinforcement and connectors from cold drawn steel wire in accordance with *AASHTO M32* and welded into the finished configuration in accordance with *AASHTO M55*. Perform galvanization after grid is fabricated.
 - C. Provide a General Certification in accordance with the *MQAP Manual* that all soil reinforcement components have been inspected to ensure they are true to size and free from defects that may impair their strength and durability.
3. Bolts, Nuts, and Washers. Use galvanized high strength bolts and hardware in accordance with subsection 906.07 of the MDOT 2020 Standard Specification for Construction. *ASTM A449* bolts galvanized in accordance with subsection 906.07 are also acceptable.
4. Geosynthetic (Extensible) Soil Reinforcement. Furnish uniaxial geogrids (higher strength in the reinforcing direction) for primary extensible reinforcement. Geosynthetic Reinforcement shall be manufactured with high-tenacity polyester (PET) or high-density polyethylene (HDPE) in a grid structure. No high strength geotextiles are allowed. The geosynthetic reinforcement must meet the long-term design strength, soil interaction, and connection capacity requirements as required by the design of the MSE slope.
 - A. Geosynthetic Reinforcement – The geosynthetic strength used in the design shall follow FHWA NHI-00-043 where:

$$T_{\text{Allowable}} = \frac{T_{\text{Ultimate}}}{\text{RF} \times \text{FS}} = \frac{T_{\text{Ultimate}}}{\text{RF}_{\text{CR}} \times \text{RF}_{\text{ID}} \times \text{RF}_{\text{D}} \times \text{FS}}$$

- B. T_{ult} shall be the minimum average roll value (MARV) ultimate tensile strength per ASTM D4595.
- C. RF_{cr} , Creep Reduction Factor shall be extrapolated to a 100-year design life using ASTM D 6992, accelerated tensile creep and creep rupture of geosynthetic materials based on time temperature superposition using the stepped isothermal method.
- D. RF_{id} , Installation Damage reduction factor, shall be obtained from construction damage tests for each product proposed for use with project specific, representative or more severe backfill and construction techniques. The backfill soil used, if other than project specific, shall have a $D_{50} > 0.6\text{mm}$ (No. 30 sieve). Testing shall be consistent with ASTM

D5818. Default RF_{id} value of 3.0 shall be used if such testing has not been conducted. The minimum RF_{id} allowed shall be 1.10.

- E. RF_d , Durability reduction factor, is the combined partial factor for potential biological and chemical degradation. A default RF_d of 2.0 shall be used if durability testing has not been conducted. The minimum RF_d allowed shall be as follows:

- 1) PET 1.1
- 2) HDPE 1.1

- F. Direct Sliding Coefficient, C_{ds} value shall be determined from pullout tests per GRI:GS-6. The maximum pullout force used to determine C_{ds} shall be limited to the lesser of T_a or the force that yields 1.5 inches displacement. The minimum C_{ds} value shall not be greater than 0.8 where the C_{ds} value is determined as follows:

$$C_{ds} = \frac{F}{L\sigma_N \tan\Phi} \quad \text{Where}$$

Φ = Effective Soil Friction Angle, Degrees

σ_N = Effective Normal Stress (psf) at range from 500 to 1000 psf

F = Maximum shear resistance from direct shear test (lb/ft), per GRI:GS-6

L = Geosynthetic Embedment Length in Test (ft)

- G. Soil/Geosynthetic Interaction Coefficient, C_i value shall be obtained from pullout tests per GRI:GG-5. The maximum pullout force used to determine C_i shall be limited to the lesser of T_a or the force that yields 1.5 inches displacement. The minimum C_i value in silty sand shall be 0.8 where the C_i value is determined as follows:

$$C_i = \frac{F}{2Le\sigma_N \tan\Phi} \quad \text{Where}$$

σ_N = Effective Normal Stress (psf) at range from 500 to 1000 psf

F = Pullout force (lb/ft), per GRI:GG-5

Le = Geosynthetic Embedment Length in the Anchorage Zone in Test (ft)

Φ = Effective Soil Friction Angle, Degrees

- H. Geogrid shall have minimum junction strength of 40 pounds per foot per GRI:GG2. If this minimum value is not met, then the geogrid shall have a minimum mass of 8 oz/sy and meet the strength requirements of AASHTO M-288-96 Class 1 geotextile.

- I. All reinforcement shall have a minimum stiffness (flexural rigidity) of 30,000 mg-cm per ASTM D1388.

- J. Polymer reinforcement shall be coated with a suitable coating providing impregnation into the bundles.
- K. PET geosynthetics shall possess a Molecular Weight greater than or equal to 25,000 grams/mole as per GRI:GG8 and a carboxyl end group number less than or equal to 30 as per GRI:GG7. Otherwise, a minimum value of $RF_d=2.0$ shall be used.
- L. HDPE geogrids shall possess a melt flow index value greater than or equal to 0.88. Otherwise, HDPE geogrids shall use a minimum $RF_d=2.0$ value.
5. Geotextile Behind Wall Face Stone Fill. Furnish a non-woven geotextile that meets the physical requirements for a geotextile liner in accordance with Table 910-1 in the MDOT 2020 Standard Specification for Construction.
6. Welded Wire Form Unit Lining. Furnish HDPE or PET biaxial geogrids according to the Manufacturer design for face stone retention within the welded wire form units.
7. Wall Face Stone. Furnish hard, durable 100 percent crushed limestone rock that is resistant to weathering and free of organic and spoil material. Wall face stone material shall conform to the following properties.

	Minimum	Maximum
Unit mass of a filled basket	95 pcf	105 pcf
Gradation dimension	1 inch	4 inches

The Contractor shall supply a written Certificate of Compliance that the wall face stone material meets the properties specified above and section 916 of the MDOT 2020 Standard Specifications for Construction.

8. Backfill for the Reinforced Soil Mass. Provide granular material Class II meeting the requirements of section 902 of the MDOT 2020 Standard Specifications for Construction and the requirements contained in Table 2 for Granular Backfill. Acceptance will be based on testing by the Engineer. Do not use slag materials, recycled PCC, or lightweight cellular concrete.

Prior to sampling and testing by the Engineer, provide current test results from an *AASHTO* accredited independent testing laboratory (valid for 2 years from completion of testing) for the granular material that is proposed to be used as backfill for the reinforced soil mass.

Use Granular Backfill for permanent and temporary walls. Use only natural mineral aggregate for backfill within the reinforced soil mass that is free from organic materials and is substantially free of shale or other soft, poor durability particles and that has a magnesium sulfate soundness loss of less than 30 percent after 4 cycles.

Granular Backfill will be sampled and tested by the Engineer in accordance with the requirements for granular material Class II specified in the *MQAP Manual*.

9. Leveling Pad. Use 21AA gradation aggregate according to section 902 of the MDOT 2020 Standard Specifications for Construction.

Table 2: Granular Backfill Requirements

Property	Test Method	Requirement
Organic Content	AASHTO T267	1 percent (maximum)
Resistivity (c)	AASHTO T288	30 ohm-m (minimum)
pH	AASHTO T289	5-10
Sulfates (a)(c)	AASHTO T290	200 ppm (maximum)
Chlorides (a)(c)	AASHTO T291	100 ppm (maximum)
Plasticity Index	AASHTO T90	6 (maximum)
Angle of Internal Friction (b, d, e)	AASHTO T236 (Direct Shear Test)	32 degrees (minimum)
<p>a. If the resistivity is greater than or equal to 50 ohm-m, the chloride and sulfate requirements are waived. Alternate test method <i>ASTM D4327</i> may be used to determine sulfate and chloride concentrations.</p> <p>b. Use material passing the #4 sieve compacted to 95 percent of the maximum unit weight of material passing the #4 sieve as determined by the <i>One-Point Michigan Cone Test</i> at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 0.75 inches.</p> <p>c. If Granular Backfill is used for a completely independent temporary wall then this property does not need to be tested.</p> <p>d. Determine the angle of internal friction by fitting the best fit line through the points. Do not force line through a cohesion of 0 psf. Do not use a negative cohesion in the best fit line.</p> <p>e. The confining pressures should be representative of the range of anticipated vertical pressures.</p>		

Construction

Construct in accordance with the approved working drawings and as specified below:

- A. **Subgrade Preparation.** Excavate a level grade to the necessary elevation for a width equal to the reinforced soil mass plus 3 feet. Inspect the subgrade and compact, if necessary, prior to wall construction in accordance with subsection 205.03.I.1 of the MDOT 2020 Standard Specifications for Construction. Undercut unsuitable material as directed by the Engineer and replace 21AA aggregate compacted to 95 percent of its maximum unit weight in accordance with section 205 of the MDOT 2020 Standard Specification for Construction unless otherwise directed by the Engineer. Ensure frost susceptible foundation soils within 5 feet of the wall face are removed and replaced in the same manner as undercut soils. Sound earth is not permitted as an alternate material for backfilling undercut soils within the region of influence below the reinforced soil mass.
- B. **Leveling Pad.** Construct the leveling pad in accordance with the working drawings and section 206 of the MDOT 2020 Standard Specification for Construction.
- C. **Wall Erection.** Provide an on-site technical representative from the Manufacturer, as necessary or as requested by the Engineer, during the wall erection to assist the Contractor and Engineer. Provide the Engineer with a copy of the Manufacturer's construction manual prior to erection.
 1. Place facing units so that their final position is vertical or battered as shown on the working drawings. Handle welded wire facing units during erection by means of lifting devices connected to the upper edges of the unit. Place units in successive horizontal lifts in the sequence shown on the working drawings as backfill placement proceeds.

Place a strip of geotextile behind wall face stone. Lap fabric joints a minimum of 4 inches. Use temporary wedges or bracing to maintain the position of units as backfill is placed in accordance with the Manufacturer's recommendations. Do not exceed 0.75 inch per 10 feet of vertical and/or horizontal wall misalignment. Do not exceed 0.75 inches of offset in any unit joint during construction. Do not exceed 0.2 inch per foot for the overall vertical tolerance of the wall (top to bottom). Correct any misalignment or distortion of the facing units in excess of the tolerances specified herein at no cost to the City of Ann Arbor.

Do not exceed 3 inches of vertical and/or horizontal wall misalignment for wire face walls. Remove and re-erect wire facing units, at no cost to the City of Ann Arbor and no additional time, if the wire face wall exceeds 3 inches of vertical and/or horizontal wall misalignment.

2. Place soil reinforcement in accordance with the details on the working drawings and around any obstruction. If the obstruction conflicts with placement of the soil reinforcement perpendicular to the wall face, follow the alternatives listed in *LRFD 11.10.10.4*. Reinforcement may be splayed a maximum of 15 degrees horizontally and/or vertically to avoid and provide adequate clear space around obstructions. The splay angle is measured from a perpendicular line to the wall face.
3. Uniformly tension soil reinforcement to remove any slack in the connection or material. Compact backfill beneath each layer of soil reinforcement prior to placement of soil reinforcement.

D. Granular Backfill Placement for Reinforced Soil Mass.

1. Follow erection of each course of wire facing units closely with backfill. Place backfill near the rear and middle of the reinforced soil mass first and work toward the facing units. Carefully place backfill to avoid damaging or disturbing the wall materials or soil reinforcement. Remove and replace, at no cost to the City of Ann Arbor, any damaged or misaligned wall materials and soil reinforcement as a result of the backfill placement. Place backfill at each soil reinforcement level to an elevation 1 inch above the level of the connection to eliminate voids beneath the soil reinforcement.
2. Prior to completing backfill, place biaxial geogrid along the wire form facing. Place wall face stone within the geogrid wrapped wire form. Place a geotextile liner strip completely covering the wall facing stone, separating the open graded aggregate from the granular backfill. Lap fabric joints 12 inches minimum.
3. Compact backfill to 95 percent of its maximum unit weight. For applications where spread footings are used to support bridge or other structures, compact backfill to 100 percent of its maximum unit weight within the limits of 1V:1H slopes spreading outward in all directions from the bottom edge of the structure footings for a depth of 5 feet below the footing elevation.
4. Ensure uniform moisture content throughout each layer of the backfill prior to and during compaction. Place backfill with a moisture content less than or equal to the optimum moisture content. Remove and rework backfill placed with moisture content in excess of the optimum moisture content until the moisture content is uniformly acceptable to the

Engineer throughout the entire lift.

5. Place backfill in lifts measuring not more than 12 inches in thickness. Decrease the maximum lift thickness as required to obtain the specified density.
6. Perform compaction within 3 feet of the face of the wall by making at least three passes with a lightweight mechanical tamper, roller, or vibratory system. Density testing will not be performed within this 3-foot zone.
7. Slope the last lift of backfill away from the wall facing at the end of each day's operation to rapidly direct runoff away from the wall face. Do not allow surface runoff from adjacent areas to enter the wall construction site. Control/redirect surface runoff away from the top of wall, bottom of wall, Granular Backfill, wall face and sides of the wall.
8. Do not use sheep's foot or grid-type rollers for compaction within the reinforced soil mass.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

Pay Item	Pay Unit
DS_Mechanically Stabilized Earth Wall, Welded Wire Form, Furn and Install.....	Square Foot
DS_Granular Backfill.....	Cubic Yard

1. **DS_Mechanically Stabilized Earth Wall, Welded Wire Form, Furn and Install** will be measured in place as the area from the top of the wall to the bottom of the wall (top of leveling pad) along the wall. **DS_Mechanically Stabilized Earth Wall, Welded Wire Form, Furn and Install** includes the design, furnishing all wall components including, but not limited to leveling pad, wire facing units, special corner units, soil reinforcement, connection devices and hardware, geotextiles, geogrids, and face stone (welded wire form unit fill).
2. **DS_Granular Backfill** includes furnishing, placing, and compacting the backfill. The Engineer will not measure material placed outside the maximum pay limits shown on the approved working drawings.

Underdrains will be paid for separately in accordance with the CAA 2025 Standard Specification for Construction.

Earth Excavation and **Embankment** required for undercutting unsuitable subgrade soils will be paid for separately in accordance with the CAA 2025 Standard Specification for Construction. The bottom of the reinforced soil mass and the bottom of the leveling pad will be considered the bottom of footing for measurement purposes.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
RIPRAP

AA/SDA:APL

1 of 1

12/09/25

Description

This work shall consist of furnishing and installing riprap as shown on the construction plans per the requirements of the City of Ann Arbor (CAA) 2025 Standard Specifications for Construction and the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as directed by the Engineer, and as specified herein.

Materials

Provide natural stone riprap in accordance with Article 8 of the 2025 CAA Standard Specifications for Construction and Section 916 of the MDOT 2020 Standard Specifications for Construction.

Construction

Perform work in accordance with Article 10 of the 2025 CAA Standard Specifications for Construction, Section 813 of the MDOT 2020 Standard Specifications for Construction and the Michigan Department of Environment, Great Lakes and Energy (EGLE) Nonpoint Source Best Management Practices Manual for Riprap-Stabilized Outlet (v2012.12.5):

[EGLE Nonpoint Source Best Management Practices Manual - Riprap Stabilized Outlet](#)

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location per the CAA standard pay item for **Riprap, Plain** and **Riprap, Heavy** as applicable and in accordance with Article 11 of the 2025 CAA Standard Specifications for Construction.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
8 INCH POLYVINYL CHLORIDE (PVC) STORM SEWER

AA/SDA:APL

1 of 1

12/10/25

Description

This work consists of the furnishing and installation of 8-inch diameter Polyvinyl Chloride (PVC) storm sewer as shown on the plans and per the requirements of the City of Ann Arbor (CAA) 2025 Standard Specifications for Construction.

Materials

Provide 8-inch diameter Polyvinyl Chloride (PVC) meeting the requirements of ASTM D-3034. Acceptable materials are as follows:

- PVC Schedule 40 sewer pipe manufactured in accordance with ASTM D-1785
- SDR 26 PVC sewer pipe manufactured in accordance with ASTM D-2241

Backfill material shall be in accordance with Article 10 of the CAA 2025 Standard Specifications for Construction.

Construction

Complete this work in accordance with the CAA 2025 Standard Specifications for Construction and CAA Standard Detail SD-TD-2.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price per foot using the following pay item:

Pay Item	Pay Unit
DS_8 In., PVC Storm Sewer, SD-TD-2.....	Foot

Measure **DS_8 In., PVC Storm Sewer, SD-TD-2** per each including furnishing all materials, labor and equipment required to complete the work, as specified.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MODIFIED 24 INCH DIAMETER STORM INLET

AA/SDA:APL

1 of 1

12/10/25

Description

This work shall consist of constructing a 24-inch diameter polyvinyl chloride (PVC) storm inlet with ductile iron dome grate where specified on the construction plans. All work shall be in accordance with the City of Ann Arbor (CAA) 2025 Standard Specifications for Construction, Section 403 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, and as specified herein.

Materials

The modified 24-inch diameter storm inlet shall be the Nyloplast Drain Basin with Dome Grate (24-inch diameter) as manufactured by Advanced Drainage Systems (ADS) or approved equal. Drain basin, dome grate, inlet/outlet adapters, and any other hardware or materials required to complete the installation and connections to underdrains or pipes as shown the plans shall be included in the pay item.

Construction

Installation and backfill shall be per the manufacturer's requirements and the City of Ann Arbor (CAA) 2025 Standard Specifications for Construction.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price at each location using the following pay item:

Pay Item	Pay Unit
DS_Storm Single Inlet, 24 In. Dia., (0-8' deep), Modified	Each

Measure **DS_Storm Single Inlet, 12 In. X 12 In., (0-8' deep)** per each including furnishing all materials, labor and equipment required to complete the work, as specified.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
ACCEPTANCE OF HMA MIXTURES

AA/SDA:DAD

1 of 7

1/14/26

Description

This special provision provides sampling and testing requirements for local agency projects using the roller method and the nuclear density gauge testing. Provide the hot mix asphalt (HMA) mixture in accordance with the requirements of the standard specifications, except as modified herein.

Materials

Provide aggregates, mineral filler (if required), and asphalt binder to produce a mixture proportioned within the master gradation limits shown in the contract and meeting the uniformity tolerance limits in Table 1.

Table 1: Uniformity Tolerance Limits for HMA Mixtures

Parameter		Top and Leveling Course		Base Course		
Number	Description	Range 1 (a)	Range 2	Range 1 (a)	Range 2	
1	% Binder Content	-0.30 to +0.40	±0.50	-0.30 to +0.40	±0.50	
2	% Passing	# 8 and Larger Sieves	±5.0	±8.0	±7.0	±9.0
		# 30 Sieve	±4.0	±6.0	±6.0	±9.0
		# 200 Sieve	±1.0	±2.0	±2.0	±3.0
3	Crushed Particle Content (b)	Below 10%	Below 15%	Below 10%	Below 15%	
a. This range allows for normal mixture and testing variations. The mixture must be proportioned to test as closely as possible to the Job-Mix-Formula (JMF). b. Deviation from JMF.						

Parameter number 2 as shown in Table 1 is aggregate gradation. Each sieve will be evaluated on one of the three gradation tolerance categories. If more than one sieve exceeds Range 1 or Range 2 tolerances, only the one with the largest exceedance will be counted as the gradation parameter.

The master gradation should be maintained throughout production; however, price adjustments will be based on Table 1. Aggregates which are to be used in plant mixed HMA mixtures must not contain topsoil, clay, or loam.

Construction

Submit a Mix Design and a JMF to the Engineer. Do not begin production and placement of the HMA until receipt of the Engineer's approval of the JMF. Maintain the binder content, aggregate gradation, and the crushed particle content of the HMA mixture within the Range 1 uniformity tolerance limits in Table 1. For mixtures meeting the definition of top or leveling course, field regress air void content to 3.5 percent with liquid asphalt cement unless specified otherwise on HMA application estimate. For mixtures meeting the definition of base course, field regress air void content to 3.0 percent with liquid asphalt cement unless specified otherwise on HMA

application estimate.

Ensure all persons performing Quality Control (QC) and Quality Assurance (QA) HMA field sampling are "Local Agency HMA Sampling Qualified" samplers. At the pre-production or preconstruction meeting, the Engineer will determine the method of sampling to be used. Ensure all sampling is done in accordance with *MTM 313 (Sampling HMA Paving Mixtures)* or *MTM 324 (Sampling HMA Paving Mixtures Behind the Paver)*. Samples are to be taken from separate hauling loads.

For production/mainline type paving, obtain a minimum of two samples, each being 20,000 grams, each day of production, for each mix type. The Engineer will sample and maintain possession of the sample. Sampling from the paver hopper is prohibited. Each sample will be divided into two 10,000 gram parts with one part being for initial testing and the other part being held for possible dispute resolution testing. Obtain a minimum of three samples for each mix type regardless of the number of days of production.

Obtain samples that are representative of the day's paving. Sample collection is to be spaced throughout the planned tonnage. One sample will be obtained in the first half of the tonnage and the second sample will be obtained in the second half of the tonnage. If planned paving is reduced or suspended, when paving resumes, the remaining sampling must be representative of the original intended sampling timing.

Ensure all persons performing testing are Bit Level One certified or Bit QA/QC Technician certified.

Ensure daily test samples are obtained, except, if the first test results show that the HMA mixture is in specification, the Engineer has the option of not testing additional samples from that day.

At the pre-production or preconstruction meeting, the Engineer and Contractor will collectively determine the test method for measuring asphalt content (AC) using *MTM 319 (Determination of Asphalt Content from Asphalt Paving Mixtures by the Ignition Method)* or *MTM 325 (Quantitative Extraction of Bitumen from HMA Paving Mixtures)*. Back calculation will not be allowed for determining asphalt content.

Ensure all labs performing local agency acceptance testing are qualified labs per the *HMA Production Manual and the Michigan Quality Assurance Procedures Manual*, and participate in the MDOT round robin process, or they must be *AASHTO Materials Reference Laboratory (AMRL)* accredited for *AASHTO T30* or *T27*, and *AASHTO T164* or *T308*. Ensure on non-National Highway System (NHS) routes, Contractor labs are made available, and may be used, but they must be qualified labs as previously stated. Contractor labs may not be used on NHS routes. Material acceptance testing will be completed by the Engineer within 14 calendar days, except holidays and Sundays, for projects with less than 5,000 tons (plan quantity) of HMA and within 7 calendar days, except holidays and Sundays, for projects with 5,000 tons (plan quantity) or more of HMA, after the Engineer has obtained the samples. QA test results will be provided to the Contractor after the Engineer receives the QC test results. Failure on the part of the Engineer or the laboratory to provide QA test results within the specified time frame does not relieve the Contractor of their responsibility to provide an asphalt mix within specifications.

The correlation procedure for ignition oven will be established as follows. Asphalt binder content based on ignition method from *MTM 319*. Gradation (*ASTM D5444*) and Crushed particle content (*MTM 117*) based on aggregate from *MTM 319*. The incineration temperature will be established

at the pre-production meeting. The Contractor will provide a laboratory mixture sample to the acceptance laboratory to establish the correction factor for each mix. Ensure this sample is provided to the Engineer a minimum of 14 calendar days prior to production.

For production/mainline type paving, the mixture may be accepted by visual inspection up to a quantity of 500 tons per mixture type, per project (not per day). For non-production type paving defined as driveways, approaches, and patching, visual inspection may be allowed regardless of the tonnage.

The mixture will be considered out-of-specification, as determined by the acceptance tests, if for any one mixture, two consecutive tests per parameter, (for Parameter 2, two consecutive aggregate gradations on one sieve) are outside Range 1 or Range 2 tolerance limits. If a parameter is outside of Range 1 tolerance limits and the second consecutive test shows that the parameter is outside of Range 2, then it will be considered to be out of Range 1 specification. Consecutive refers to the production order and not necessarily the testing order. Out-of-specification mixtures are subject to a price adjustment per the Measurement and Payment section of this special provision.

Contractor operations will be suspended when the mixture is determined to be out of specification, but contract time will continue to run. The Engineer may issue a Notice of Non-Compliance with Contract Requirements (Form 1165), if the Contractor has not suspended operations and taken corrective action. Submit a revised JMF or proposed alterations to the plant and/or materials to achieve the JMF to the Engineer. Effects on the Aggregate Wear Index (AWI) and mix design properties will be taken into consideration. Production and placement cannot resume until receipt of the Engineer's approval to proceed.

Pavement in-place density will be measured using one of two approved methods. The method used for measuring in-place density will be agreed upon at a pre-production or preconstruction meeting.

Pavement in-place density tests will be completed by the Engineer during paving operations and prior to traffic staging changes. Pavement in-place density acceptance testing will be completed by the Engineer prior to paving of subsequent lifts and being open to traffic.

Option 1 - Direct Density Method

Use of a nuclear density gauge requires measuring the pavement density using the Gmm from the JMF for the density control target. The required in-place density of the HMA mixture must be 92.0 to 98.0 percent of the density control target. Nuclear density testing and frequency will be in accordance with the *MDOT Density Testing and Inspection Manual*.

Option 2 - Roller Method

The Engineer may use the Roller Method with a nuclear or non-nuclear density gauge to document achieving optimal density as discussed below.

Use of the density gauge requires establishing a rolling pattern that will achieve the required in-place density. The Engineer will measure pavement density with a density gauge using the Gmm from the JMF for the density control target.

Use of the Roller Method requires developing and establishing density frequency curves and meeting the requirements of Table 2. A density frequency curve is defined as the measurement

and documentation of each pass of the finished roller until the in-place density results indicate a decrease in value. The previous recording will be deemed the optimal density. The Contractor is responsible for establishing and documenting an initial or QC rolling pattern that achieves the optimal in-place density. When the density frequency curve is used, the Engineer will run and document the density frequency curve for each half day of production to determine the number of passes to achieve the maximum density. Table 5, located at the end of this special provision, can be used as an aid in developing the density frequency curve. The Engineer will perform density tests using an approved nuclear or non-nuclear gauge per the manufacturer's recommended procedures.

Table 2: Minimum Number of Rollers Recommended Based on Placement Rate

Average Laydown Rate, Square Yards per Hour	Number of Rollers Required (a)	
	Compaction	Finish
Less than 600	1	1 (b)
601 - 1200	1	1
1201 - 2400	2	1
2401 - 3600	3	1
3601 and More	4	1

a. Number of rollers may increase based on density frequency curve.
b. The compaction roller may be used as the finish roller also.

After placement, roll the HMA mixture as soon after placement as the roller is able to bear without undue displacement or cracking. Start rolling longitudinally at the sides of the lanes and proceed toward the center of the pavement, overlapping on successive trips by at least half the width of the drum. Ensure each required roller is 8 tons minimum in weight unless otherwise approved by the Engineer.

Ensure the initial breakdown roller is capable of vibratory compaction and is a maximum of 500 feet behind the paving operations. The maximum allowable speed of each roller is 3 miles per hour (mph) or 4.5 feet per second. Ensure all compaction rollers complete a minimum of two complete rolling cycles prior to the mat temperature cooling to 180 degrees Fahrenheit (F). Continue finish rolling until all roller marks are eliminated and no further compaction is possible. The Engineer will verify and document that the roller pattern has been adhered to. The Engineer can stop production when the roller pattern is not adhered to.

Measurement and Payment

The completed work, as described, will be measured and paid for using applicable pay items as described in subsection 501.04 of the Standard Specifications for Construction, or the contract, except as modified below.

Base Price is the price established by the Department to be used in calculating incentives and adjustments to pay items and shown in the contract.

If acceptance tests, as described in section c. of this special provision, show that a Table 1 mixture parameter exceeds the Range 1, but not the Range 2, tolerance limits, that mixture parameter will be subject to a 10 percent penalty. The 10 percent penalty will be assessed based on the acceptance tests only unless the Contractor requests that the 10,000 gram sample part retained

for possible dispute resolution testing be tested. The Contractor has 4 calendar days from receipt of the acceptance test results to notify the Engineer, in writing, that dispute resolution testing is requested. The Contractors QC test results for the corresponding QA test results must result in an overall payment greater than QA test results otherwise the QA tests will not be allowed to be disputed. The Engineer has 4 calendar days to send the dispute resolution sample to the lab once dispute resolution testing is requested. The dispute resolution sample will be sent to an independent lab selected by the Local Agency, and the resultant dispute test results will be used to determine the penalty per parameter, if any. Ensure the independent lab is a MDOT QA/QC qualified lab or an AMRL HMA qualified lab. The independent lab must not have conflicts of interest with the Contractor or Local Agency. If the dispute testing results show that the mixture parameter is out-of-specification, the Contractor will pay for the cost of the dispute resolution testing and the contract base price for the material will be adjusted, based on all test result parameters from the dispute tests, as shown in Table 3 and Table 4. If the dispute test results do not confirm the mixture parameter is out-of-specification, then the Local Agency will pay for the cost of the dispute resolution testing and no price adjustment is required.

If acceptance tests, as described in section c. of this special provision, show that a Table 1 mixture parameter exceeds the Range 2 tolerance limits, the 10,000 gram sample part retained for possible dispute resolution testing will be sent, within 4 calendar days, to the MDOT Central Laboratory for further testing. The MDOT Central Laboratory's test results will be used to determine the penalty per mixture parameter, if any. If the MDOT Central Laboratory's results do not confirm the mixture parameter is out-of-specification, then no price adjustment is required. If the MDOT Central Laboratory's results show that the mixture is out-of-specification and the Engineer approves leaving the out-of-specification mixture in place, the contract base price for the material will be adjusted, based on all parameters, as shown in Table 3 and Table 4.

In the case that the Contractor disputes the results of the test of the second sample obtained for a particular day of production, the test turn-around time frames given would apply to the second test and there would be no time frame on the first test.

The laboratory (MDOT Central Laboratory or independent lab) will complete all Dispute Resolution testing and return test results to the Engineer, who will provide them to the Contractor, within 13 calendar days upon receiving the Dispute Resolution samples.

In all cases, when penalties are assessed, the penalty applies to each parameter, up to two parameters, that is out of specification.

Table 3: Penalty Per Parameter

Mixture Parameter out-of-Specification per Acceptance Tests	Mixture Parameter out-of-Specification per Dispute Resolution Test Lab	Price Adjustment per Parameter
No	N/A	None
Yes	No	None
	Yes	Outside Range 1 but not Range 2: decrease by 10% Outside Range 2: decrease by 25%

The quantity of material receiving a price adjustment is defined as the material produced from the time the first out-of-specification sample was taken until the time the sample leading to the first in-specification test was taken.

Each parameter of Table 1 is evaluated with the total price adjustment applied to the contract base price based on a sum of the two parameter penalties resulting in the highest total price adjustment as per Table 4. For example, if three parameters are out-of-specification, with two parameters outside Range 1 of Table 1 tolerance limits, but within Range 2 of Table 1 limits and one parameter outside of Range 2 of Table 1 tolerance limits and the Engineer approves leaving the mixture in place, the total price adjustment for that quantity of material is 35 percent.

Table 4: Calculating Total Price Adjustment

Cost Adjustment as a Sum of the Two Highest Parameter Penalties		
Number of Parameters Out-of-Specification	Range(s) Outside of Tolerance Limits of Table 1 per Parameter	Total Price Adjustment
One	Range 1	10%
	Range 2	25%
Two	Range 1 and Range 1	20%
	Range 1 and Range 2	35%
	Range 2 and Range 2	50%
Three	Range 1, Range 1 and Range 1	20%
	Range 1, Range 1 and Range 2	35%
	Range 1, Range 2 and Range 2	50%
	Range 2, Range 2 and Range 2	50%

Table 5: Density Frequency Curve Development

Tested by: _____ Date/Time: _____

Route/Location:		Air Temp:
Control Section/Job Number:		Weather:
Mix Type:	Tonnage:	Gauge:
Producer:	Depth:	Gmm:

Roller #1 Type:

Pass No.	Density	Temperature	Comments
1			
2			
3			
4			
5			
6			
7			
8			
Optimum			

Roller #2 Type:

Pass No.	Density	Temperature	Comments
1			
2			
3			
4			
5			
6			
7			
8			
Optimum			

Roller #3 Type:

Pass No.	Density	Temperature	Comments
1			
2			
3			
4			
5			
6			
7			
8			
Optimum			

Summary: _____

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
HOT MIX ASPHALT (HMA) APPLICATION ESTIMATE

AA/SDA:APL

1 of 1

12/09/25

Description

Perform this work in accordance with the requirements of section 501 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, Articles 5, 10 and 11 of the City of Ann Arbor Standard Specification, and as herein specified.

Materials

PAY ITEM	HMA MIX	APPLICATION RATE	ESTIMATED THICKNESS	BINDER PERFORMANCE GRADE	AWI (min)
HMA, 4EL	4EL (leveling)	275 lb/syd	2.5 inches	PG 64-28	N/A
HMA, 5EL	5EL (top)	165 lb/syd	1.5 inches	PG 64-28	260
⁽¹⁾ Hand Patching	4EL or 5EL	Varies maximum = 330 lb/syd	Varies - maximum = 3.0 inches	PG 64-28	260

(1) The Contractor may use alternative top course E mixes for Hand Patching with approval by the Engineer.

Submit mix designs and obtain approval from the Engineer for all HMA mixtures proposed for use.

For hand patching work, use the same HMA mixture respectively as specified for the top course unless otherwise approved by the Engineer.

Use 3.5% as target air void content of for leveling courses, top courses and shoulders paved in the same operation as the leveling and top courses. Use 3% as a target air void content of for base courses and shoulders not paved in the same operation as the leveling and top courses. Use 3% as a target air void content of for shared use paths.

The Performance Grade asphalt binder range for the HMA mixture shall be as noted above. Apply Bond Coat material accordance with the requirements of the Detailed Specification for HMA Paving.

Apply bond coat at a uniform rate between 0.05 and 0.15 gallons per square yard as directed and approved by the Engineer. Bond Coat is not a separate pay item; the HMA items of work for which it applies include payment for furnishing and placing bond coat.

Measurement and Payment

Measure and pay for this work as provided elsewhere in the contract documents.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
CONCRETE SHOULDER GUTTER

AA/SDA:APL

1 of 1

05/06/24

Description

This work consists of constructing a concrete shoulder gutter and spillway when called for on the plans including providing and placing a geotextile liner. Ensure all work is completed in accordance with section 802 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and the MDOT R-35 series Standard Detail, except as stated in this special provision, as shown on the plans or in the contract, and as directed by the Engineer.

Materials

Provide materials as described in Section 802.02 of the MDOT 2020 Standard Specifications for Construction in accordance with Divisions 9 and 10 of the City of Ann Arbor (CAA) Standard Specifications for Construction as applicable.

Construction

Construct **DS_Shld Gutter, Con, Det__** in accordance with section 802 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and the MDOT R-35 series Standard Detail.

Measurement and Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
DS_Shld Gutter, Con, Det__	Each

Measure **DS_Shld Gutter, Con, Det__**, of the type specified in place per each and pay for it at the contract unit price, which includes the costs for all labor, equipment, and materials necessary to complete the work according to the MDOT R-35 series Standard Detail and as shown on the construction plans.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
POST HOLE THROUGH CONCRETE

AA/SDA:APL

1 of 1

01/14/26

Description

This work consists of constructing a post hole through concrete for the installation of a steel guardrail post as called for on the plans. Ensure all work is completed in accordance with section 807 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and the MDOT R-60 series Standard Detail, except as stated in this detailed specification, as shown on the plans or in the contract, and as directed by the Engineer.

Materials

Provide materials as described in Section 807.02 of the MDOT 2020 Standard Specifications for Construction in accordance with Section 908 of the MDOT 2020 Standard Specifications for Construction.

Construction

Drill or cut post holes no greater than 1 inch larger than the largest cross-sectional dimension of the post. After drilling or sawing, remove the concrete debris from the hole. Clean and dry the area around the hole. Insert the steel post into the hole and embed it to a depth in accordance with the MDOT R-60 series Standard Detail. Fill the hole around the post with a silicone sealer.

If installing posts in new concrete, the Contractor may form holes before placing the new concrete.

The pay item shall include the construction of the post hole and silicone sealer around the steel post after installation. The cost of the steel post shall be included in pay item for **DS_Guardrail, Type __. __ inch Post**.

Measurement and Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
DS_Post Hole Through Conc	Each

Measure **DS_Post Hole Through Conc**, of the type specified in place per each and pay for it at the contract unit price, which includes the costs for all labor, equipment, and materials necessary to complete the work as required.

Installation of the steel post shall be paid for under the item for **DS_Guardrail, Type __. __ inch Post** and installed in accordance with the MDOT R-60 series Standard Detail and the Detailed Specification for Reconstruct Guardrail.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
GUARDRAIL

AA/SDA:APL

1 of 1

01/14/26

Description

This work consists of furnishing and installing guardrail of the type and post length where called for on the plans. Ensure all work is completed in accordance with section 807 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and applicable MDOT Standard Details, as shown on the plans or in the contract, as directed by the Engineer and as specified herein.

Materials

Furnish materials in accordance with section 807 of the MDOT 2020 Standard Specifications for Construction. Furnish steel posts of the specified length.

Construction

Construct **DS_Guardrail, Type __, __ inch Post** in accordance with section 807 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and the MDOT R-60 series Standard Detail.

Measurement and Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

Pay Item	Pay Unit
DS_Guardrail, Type __, __ inch Post	Foot

Measure **DS_Guardrail, Type __, __ inch Post** of the type specified in place per foot and pay for it at the contract unit price, which includes the costs for all labor, equipment, and materials necessary to complete the work according to the MDOT R-60 series Standard Detail and as shown on the construction plans.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
TURF RESTORATION

AA/SDA:DAD

1 of 3

1/14/26

Description

This work consists of preparing all manicured lawns and slopes on non-freeway projects designated for slope restoration on the plans or by the Engineer, and applying topsoil, fertilizer, seed, and mulch blankets to those areas. Turf establishment shall be in accordance with section 816 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction and Standard Plan Series R-100, except as modified herein or otherwise directed by the Engineer.

Materials

The materials and application rates shall meet the requirements specified in subsection 816.02 and section 917 of the MDOT 2020 Standard Specifications for Construction and as specified herein unless otherwise directed by the Engineer.

1. Topsoil Surface: Place 4 inches of topsoil in area disturbed areas designated for restoration. Topsoil shall be free of all stones one inch in diameter or greater.
2. Turf Seed Mixture: Use seed mixture shown in table below. Seed shall be fresh, clean, dry, new-crop seed complying with the AOSA's "Rules for Testing Seed", tested for purity and germination tolerances.

Species/Variety	Mix Proportions (percent by weight)	Purity (percent)	Germination (percent)
Baron Kentucky Bluegrass	25	90	80
Kentucky Bluegrass 98/80	15	98	80
Park Kentucky Bluegrass	15	90	80
Omega III Perennial Ryegrass	20	98	90
Creeping Red Fescue	25	95	90

Maximum weed content shall be 0.30%.

3. Chemical Fertilizer Nutrient: Use Class A fertilizer.
4. Mulch Blanket: Use excelsior mulch blanket free of chemical additives. The netting thread and anchoring devices must be 100 percent biodegradable. **Use no polypropylene or other non-biodegradable netting.** Provide wood or other biodegradable anchors, at least 6 inches in length, as approved by the Engineer. **Do not use steel wire staples or pins to anchor mulch blankets.**

Construction

Construction methods shall be in accordance with subsections 816.03 and 817.03 of the MDOT 2020 Standard Specifications for Construction. Begin this work as soon as possible after final grading of the areas designated for slope restoration but no later than the maximum time limitations stated in subsection 208.03 of the Standard Specifications for Construction. It may be necessary, as directed by the Engineer, to place materials by hand.

Restore all areas as shown on the plans and others disturbed by the Contractor's activity(s) and as identified by the Engineer. Slope restoration includes furnishing and placing topsoil, applying

seed and fertilizer, placing mulch blankets, and watering as necessary for the establishment of turf.

Prior to placing topsoil, grade, shape, compact and assure all areas to be seeded are weed free. Place topsoil to the minimum depth required, to meet proposed finished grade. Spread and rake topsoil to provide a uniform surface free of large clumps, rocks, brush, roots, or other deleterious materials, as determined by the Engineer. Remove any stones greater than or equal to 1 inch in diameter. If the area designated for restoration requires more than the minimum depth of topsoil to meet finished grade, the additional depth must be filled using topsoil. Furnishing and placing this additional material is included in this item of work.

Place topsoil that is weed and weed seed free and friable prior to placing seed. Apply seed mixture and fertilizer to prepared soil surface. Incorporate seed into top ½ inch of topsoil.

Use mulch blanket on all areas designated for restoration unless otherwise directed by the Engineer. Install mulch blanket per the manufacturer's published instructions.

Protect and maintain restored areas to establish a uniform, dense, vigorous, and weed free turf without mounds and/or depressions. Begin maintenance immediately upon completion of restoration work and continue up to final acceptance. This includes, but is not limited to, deposition of additional topsoil, re-seeding, fertilizing, and placement of mulch blankets to address areas damaged by washouts and soil erosion, non-uniform germination and bare spots. It also includes any other work required to correct all settlement, erosion, germination, and establishment issues.

If areas washout and/or erode after completing the work and obtaining approval by the Engineer, make the required corrections to prevent future washouts and erosion and replace the topsoil, fertilizer, seed and mulch as required and directed by the Engineer.

Scattered bare spots in seeded areas will not be allowed over three (3) percent of the area nor greater than 6"x 6" in size.

If the Engineer determines weeds cover more than ten percent of the total area of slope restoration, the Contractor will provide weed control in accordance with subsection 816.03.J of the MDOT 2020 Standard Specifications for Construction.

Prior to acceptance, the Engineer will inspect the restored areas to ensure the turf is well established, weed free, in a vigorous growing condition, and contains the species called for in the seeding mixture. If areas do not promote growth, the Contractor will apply new seed, fertilizer and mulch blankets, and water as required.

Upon fulfillment of the above requirements, the Engineer will accept the slope restoration.

Unless otherwise approved by the Engineer, final acceptance will occur no sooner than October 10 of the same year for areas initially restored during the spring (April 15 - June 15) planting season; or no sooner than June 15 of the following year for areas initially restored during the prior summer/fall (after June 15) planting season.

Measurement and Payment

Measure and pay for the completed work, as described, at the contract unit price using the following pay item:

Pay Item

Pay Unit

DS_Turf Restoration Square Yard

Measure **DS_Turf Restoration** area in place by the unit square yard and pay for it at the contract unit price, which price includes the costs for all labor, equipment, and materials necessary to complete the work.

The Contractor will restore areas disturbed by its operations and not required by the Project at its own expense.

The Engineer will not pay for any labor, equipment, and material costs for the Contractor to provide weed control.

The Contractor will repair and/or clean any damage or soiling to signs, fences, trees, pavements, structures, etc. at its own expense.

After initial placement of the slope restoration measures, the Engineer will certify for payment fifty (50) percent of the total quantity placed for each item. The Engineer will certify for payment the remaining fifty (50) percent of the total quantities upon full establishment and final acceptance of any restored area.

APPENDIX

GEOTECHNICAL REPORT	23 PAGES
WAGE DECISION MI20250001 – HIGHWAY CONSTRUCTION	36 PAGES
WAGE DECISION MI20250074 – HEAVY CONSTRUCTION	10 PAGES

LEGEND

 BORING LOCATION (TYP)

NOTE: AERIAL IMAGE FROM GOOGLE EARTH




TITLE: BORING LOCATION PLAN		PROJECT: HURON RIVER DRIVE ANN ARBOR, SLOPE AND WALL FAILURE	
SCALE: AS SHOWN	DATE: 08/31/2023	PROJECT NO.: 231349	
FIG. NO.: 1	DR. BY: JM	REV. BY: RS	



LOG OF BORING

Project No.: 231349

Boring No.: B-1

Sheet: 1 of 2

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: 55 LC

Crew Chief: KE **Field Eng.:** BG **Rev. By:** RS

Coordinates: N=279878.9 E=13307260.6 (MI South lift)

Elevation: 771.9 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Date Begin: 06/29/2023

Date End: 06/29/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	29.0
Sampler	SPT	2"	End	29.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 30.0 ft.

Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS				
770.9	1					12" HMA	1.0	4.25						
769.9	2	S-1	1.2	3-3-3 N=6	CL	Gray lean CLAY; mostly clayey fines, few coarse to fine sand, trace gravel, moist	4.5+	19.6		S-2, S-3: Poor recovery; possible coarse gravel / COBBLE				
768.9	3													
767.9	4													
766.9	5	S-2	0.3	3-3-4 N=7										
765.9	6													
764.9	7	S-3	1.0	2-2-3 N=5										
763.9	8													
762.9	9	S-4	1.5	4-8-10 N=18										
761.9	10													
760.9	11													
759.9	12													
758.9	13													
757.9	14	S-5	1.5	9-13-19 N=32	SP	Grades without sand	4.5+	14.0						
756.9	15													
755.9	16													
754.9	17													
753.9	18													
752.9	19	S-6	1.5	12-10-10 N=20						CL	Brown poorly graded SAND; mostly medium to fine sand, moist	32.0		
751.9	20													
750.9	21													
749.9	22													
748.9	23													
747.9	24	S-7	1.5	5-4-6 N=10										
746.9	25													
745.9	26													
744.9	27													
743.9	28													
742.9	29	S-8	1.5	3-4-5 N=9	CL	Grades wet at 29'	1.25	13.2						
741.9	30													
740.9	31													
739.9	32													
738.9	33													
737.9	34	S-9	1.5	6-6-8 N=14						CL	Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, wet	1.75	21.9	
736.9	35													
735.9	36													
734.9	37													
733.9	38													
732.9	39	S-10	1.5	6-9-8 N=17	CL	Grades gray	1.75	21.9						
731.9	40													

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-1

Sheet: 2 of 2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
730.9	41	S-11	1.5	7-7-7 N=14	CL	Gray lean CLAY with sand; mostly clayey fines, little coarse to fine sand, wet	42.0			
729.9	42									
728.9	43									
727.9	44									
726.9	45									
725.9	46									
724.9	47									
723.9	48									
722.9	49	S-12	1.5	9-7-7 N=14	SP	Gray poorly graded SAND; mostly coarse to fine sand, moist	50.0			
721.9	50									
End of Boring										

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-2

Sheet: 1 of 2

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: 55 LC
 Crew Chief: KE Field Eng.: JV Rev. By: RS
 Coordinates: N=279837.6 E=13307294.2 (MI South lift)
 Elevation: 770.5 ft Datum: NAVD 88 (GPS Observation)
 Notes:

Date Begin: 06/28/2023 Date End: 06/28/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	23.5
Sampler	SPT	2"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 23.0 ft.

Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
769.5	1					3" Asphalt patch	0.3			
768.5	2	S-1	1.5	1-WOH		Crushed Limestone Aggregate Base				WOH: Weight-of-Hammer
767.5	3						3.0			
766.5	4	S-2	1.5	5-3-4 N=7	SP-SM	Brown poorly graded SAND with silt and gravel; mostly coarse to fine sand, little coarse to fine gravel, few silty fines, moist	4.5			
765.5	5					Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist				
764.5	6									
763.5	7	S-3	0.6	4-4-4 N=8			-			S-3, S-4: Poor recovery; possible coarse gravel / COBBLE
762.5	8									
761.5	9	S-4	0.1	5-7-8 N=15			-			
760.5	10									
759.5	11									
758.5	12	S-5	1.5	11-12-11 N=23	CL			23.1		S-5: Atterberg Limits ASTM D4318: LL = 20, PL = 11, PI = 9
757.5	13									
756.5	14	S-6	1.5	11-12-14 N=26			4.5+	19.3		
755.5	15									
754.5	16									
753.5	17									
752.5	18									
751.5	19									
750.5	20	S-7	1.5	11-15-32 N=47			19.7	4.5+	17.4	
749.5	21					Brown poorly graded SAND with clay and gravel, mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist				Augers charged with water at 20.0' to 25.0'
748.5	22									
747.5	23									
746.5	24	S-8	0.8	12-10-9 N=19	SP-SC	Grades wet				
745.5	25									
744.5	26									
743.5	27						27.0			
742.5	28					Gray lean CLAY; mostly clayey fines, trace fine gravel, moist				
741.5	29	S-9	1.5	5-5-9 N=14			4.0	16.0		
740.5	30									
739.5	31									
738.5	32									
737.5	33									
736.5	34									
735.5	35	S-10	0.6	10-13-8 N=21	CL	Grades with wet sand seams	4.0	19.6		S-10: Atterberg Limits ASTM D4318: LL = 29, PL = 13, PI = 16
734.5	36									
733.5	37						37.0			
732.5	38									
731.5	39					Gray silty SAND; mostly medium to fine sand, some silty fines, wet				
730.5	40	S-11	0.2	1-1-1 N=2	SM		-	13.5		
							40.0			

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-2

Sheet: 2 of 2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS	
729.5	41	U-12	2.0	Shelby	SM	Gray silty SAND; mostly medium to fine sand, some silty fines, wet					
728.5	42										
727.5	43										
726.5	44	S-13	1.5	3-3-3 N=6							
725.5	45										
724.5	46										
723.5	47	S-14	1.5	2-2-4 N=6							
722.5	48										
721.5	49										
720.5	50										
						End of Boring					

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-3

Sheet: 1 of 2

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: 55 LC

Crew Chief: KE **Field Eng.:** BG **Rev. By:** RS

Coordinates: N=279797.1 E=13307323.3 (MI South lift)

Elevation: 768.7 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Date Begin: 06/29/2023

Date End: 06/29/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	34.0
Sampler	SPT	2"	End	20.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 26.0 ft.

Depth Drilled: 50.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
767.7	1					4" HMA	3.0			
766.7	2	S-1	1.5	5-4-4 N=8		7" Coarse Aggregate Base				
765.7	3					Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist				
764.7	4									
763.7	5	S-2	1.5	4-4-4 N=8			2.75	14.9		
762.7	6									
761.7	7	S-3	1.5	2-4-5 N=9		Grades with trace coarse gravel at 6'	4.5+	24.8		
760.7	8						4.5+			
759.7	9									
758.7	10	S-4	1.5	4-7-9 N=16				18.0		
757.7	11									
756.7	12									
755.7	13									
754.7	14									
753.7	15	S-5	1.5	11-11-12 N=23			4.5+	18.7		
752.7	16				CL					
751.7	17									
749.7	19									
748.7	20	S-6	1.5	8-11-15 N=26			4.5+	18.4		S-6: Poor recovery; possible coarse gravel / COBBLE
747.7	21									
746.7	22									
745.7	23									
744.7	24									
743.7	25	S-7	1.5	8-13-17 N=30			4.5+	17.4		
742.7	26									
741.7	27									
740.7	28									
739.7	29									
738.7	30	S-8	1.5	8-11-13 N=24			4.5+	16.0		
737.7	31									
736.7	32									
735.7	33									
734.7	34				SP	Poorly graded SAND with gravel, mostly coarse to fine sand, little coarse to fine gravel, moist				
733.7	35	S-9	1.5	28-11-14 N=25		Grades wet at 34'	34.5	2.75		
732.7	36									
731.7	37									
730.7	38				CL	Brown lean CLAY; mostly clayey fines, trace coarse to fine gravel, moist				
729.7	39									
728.7	40	S-10	1.5	5-4-4 N=8		Grades gray with coarse to fine sand	2.75	23.1		

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-3

Sheet: 2 of 2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS
727.7	41	S-11	1.5	3-3-3 N=6	CL	Brown lean CLAY; mostly clayey fines, trace coarse to fine gravel, moist	42.0			
726.7	42									
725.7	43				SP	Gray poorly graded SAND; mostly medium to fine sand, moist				
724.7	44									
723.7	45									
722.7	46									
721.7	47	S-12	1.5	7-7-6 N=13		50.0				
720.7	48									
719.7	49									
718.7	50									
End of Boring										

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-4

Sheet: 1 of 1

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: CME 55
 Crew Chief: KE Field Eng.: BG Rev. By: RS
 Coordinates: N=279755.0 E=13307355.9 (MI South lift)
 Elevation: 766.3 ft Datum: NAVD 88 (GPS Observation)
 Notes:

Date Begin: 06/30/2023 Date End: 06/30/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	18.5
Sampler	SPT	2"	End	18.5
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 21.0 ft.

Depth Drilled: 40.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	UCS psf	REMARKS				
765.3	1					7" HMA	4.5+							
764.3	2	S-1	1.0	3-3-4 N=7	CL	Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist	4.5+	8.9		S-1, S-8: Poor recovery; possible coarse gravel / COBBLE				
763.3	3													
762.3	4													
761.3	5	S-2	1.4	4-4-3 N=7										
760.3	6													
759.3	7	S-3	1.3	2-3-3 N=6										
758.3	8													
757.3	9													
756.3	10	S-4	1.5	3-5-6 N=11							Grades with trace organics, twigs at 8.5'	4.5+	13.9	
755.3	11										11.0			
754.3	12	S-5	1.5	7-12-15 N=27	CL	Brown lean CLAY with sand; mostly clayey fines, little fine sand, moist	4.5+							
753.3	13													
752.3	14													
751.3	15	S-6	1.5	9-9-12 N=21										
750.3	16													
749.3	17													
748.3	18													
747.3	19													
746.3	20	S-7	1.5	24-8-12 N=20						Grades with few gravel at 18.5'	4.5+	18.2		
745.3	21									22.0				
743.3	23				GP	Poorly graded GRAVEL with sand; mostly coarse to fine gravel, little coarse to fine sand, trace clayey fines, wet	4.5+	14.4						
742.3	24	S-8	1.0	5-4-4 N=8										
741.3	25													
740.3	26													
739.3	27													
738.3	28													
737.3	29													
736.3	30	S-9	1.5	4-3-4 N=7						SP	Brown poorly graded SAND with gravel; mostly coarse to fine sand, little fine gravel, trace clayey fines, wet	4.5+	14.4	
735.3	31													
734.3	32													
733.3	33													
732.3	34													
731.3	35	S-10	1.5	9-8-8 N=16										
730.3	36													
729.3	37													
728.3	38													
727.3	39													
726.3	40	S-11	1.5	2-2-3 N=5	Grades without gravel at 37.0'	40.0			End of Boring at 40.0'					

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-5

Sheet: 1 of 1

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: CME 55
 Crew Chief: KE Field Eng.: BG Rev. By: RS
 Coordinates: N=279717.5 E=13307389.9 (MI South lift)
 Elevation: 760.8 ft Datum: NAVD 88 (GPS Observation)
 Notes:

Date Begin: 06/30/2023 Date End: 06/30/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing	HSA	4 1/4"	During	19.0
Sampler	SPT	2"	End	16.5
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings. Cave in at 20.0 ft.

Depth Drilled: 40.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Penetration (Blows Per 6") ASTM D 1586	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
759.8	1					6 1/2" HMA	0.5			
758.8	2	S-1	1.0	6-4-4 N=8	CL	Brown lean CLAY; mostly clayey fines, few coarse to fine gravel, moist	4.5			S-1, S-2: Poor recovery; possible coarse gravel / COBBLE
757.8	3									
756.8	4									
755.8	5	S-2	0.8	2-3-4 N=7			1.5	18.6		
754.8	6									
753.8	7	S-3	1.5	3-2-3 N=5			2.0	21.0		
752.8	8									
751.8	9									
750.8	10	S-4	1.5	4-4-6 N=10			4.0	20.7		
749.8	11									
748.8	12									
747.8	13									
746.8	14									
745.8	15	S-5	1.5	7-11-13 N=24	4.5+	18.1				
744.8	16									
743.8	17									
742.8	18									
741.8	19									
740.8	20	S-6	1.5	6-5-5 N=10	19.0					
739.8	21									
738.8	22									
737.8	23									
736.8	24									
735.8	25	S-7	1.5	4-4-4 N=8	GP	Poorly graded GRAVEL with sand; mostly coarse to fine gravel, little coarse to fine sand, trace clay, wet				
734.8	26									
733.8	27									
732.8	28									
731.8	29									
730.8	30	S-8	1.5	7-7-5 N=12						
729.8	31									
728.8	32									
727.8	33									
726.8	34									
725.8	35	S-9	1.5	4-5-4 N=9	34.0	2.75				
724.8	36									
723.8	37									
722.8	38									
721.8	39									
720.8	40	S-10	1.5	2-3-2 N=5	40.0	1.75	20.4	End of Boring at 40.0'		

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-6

Sheet: 1 of 2

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: Hand Auger
 Crew Chief: Field Eng.: BG/JV Rev. By: RS
 Coordinates: N=279843.3 E=13307307.6 (MI South 1ft)
 Elevation: 765.6 ft Datum: NAVD 88 (GPS Observation)
 Notes: Elevations obtained from laser level

Date Begin: 07/13/2023 Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings.

Depth Drilled: 11.5 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
765.4	0.25	A-1		2		13" Sandy Topsoil	1.1			Fill: 0.0' to 11.5'
765.1	0.50									
764.9	0.75									
764.6	1.00									
764.4	1.25									
764.1	1.50	A-2		5	SP	Brown poorly graded SAND with silt; mostly coarse to fine sand, few silty fines, few coarse to fine gravel, moist, Fill	2.8			
763.9	1.75									
763.6	2.00									
763.4	2.25									
763.1	2.50									
762.9	2.75	A-3			CL	Brown sandy lean CLAY; mostly clayey fines, some coarse to fine sand, moist, Fill	2.0			
762.6	3.00									
762.4	3.25									
762.1	3.50									
761.9	3.75									
761.6	4.00	A-4			CL	Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill	5.5			
761.4	4.25									
761.1	4.50									
760.9	4.75									
760.6	5.00									
760.4	5.25	A-5			CL	Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill with occasional metal debris	7.5			
760.1	5.50									
759.9	5.75									
759.6	6.00									
759.4	6.25									
759.1	6.50						3.5			
758.9	6.75									
758.6	7.00									
758.4	7.25									
758.1	7.50									
757.9	7.75						1.75			
757.6	8.00									
757.4	8.25									
757.1	8.50									
756.9	8.75									
756.6	9.00									
756.4	9.25									
756.1	9.50									
755.9	9.75									
755.6	10.00									

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-6

Sheet: 2 of 2

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
755.4	10.25	A-6			CL	Brown lean CLAY; mostly clayey fines, few coarse to fine sand, moist, Fill with occasional metal debris	2.0			
755.1	10.50									
754.9	10.75									
754.6	11.00									
754.4	11.25									
754.1	11.50									
						11.5				End of Boring
										Auger refusal at 11.5' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-6A

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: IA **Rev. By:** RS

Coordinates: N=279843.2 E=13307307.6 (MI South ift)

Elevation: 765.6 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/17/2023

Date End: 07/17/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	4.0
Sampler	Hand Auger	3 1/4"	End	4.0
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 7.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
765.4	0.25	A-1			SP-SM	12" Sandy Topsoil	1.0			Fill: 0.0' to 3.5'
765.1	0.50									
764.9	0.75									
764.6	1.00									
764.4	1.25									
764.1	1.50									
763.9	1.75									
763.6	2.00									
763.4	2.25									
763.1	2.50									
762.9	2.75									
762.6	3.00									
762.4	3.25									
762.1	3.50									
761.9	3.75					A-2				
761.6	4.00									
761.4	4.25	A-3								
761.1	4.50									
760.9	4.75									
760.6	5.00	U-4	0.5		CL	Brown lean CLAY; mostly clayey fines, few medium to fine sand, trace of medium to fine gravel, moist	2.5			
760.4	5.25									
760.1	5.50									
759.9	5.75									
759.6	6.00	U-5	0.4				2.5			
759.4	6.25									
759.1	6.50									
758.9	6.75									
758.6	7.00						7.0			
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-7

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: JV Rev. By: RS

Coordinates: N=279845.3 E=13307312.9 (MI South ift)

Elevation: 756.9 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/14/2023

Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 1.8 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS	
756.7	0.25					12" Silty Topsoil with roots					
756.4	0.50										
756.2	0.75										
755.9	1.00						1.0				
755.7	1.25				SP	Brown poorly graded SAND with clay and gravel; mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist					
755.4	1.50										
755.2	1.75							1.8			
						End of Boring				Hand Auger refusal at 1.8' due to possible coarse gravel / COBBLE	

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-7A

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: JV Rev. By: RS

Coordinates: N=279845.3 E=13307312.8 (MI South ift)

Elevation: 756.9 ft Datum: NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/14/2023

Date End: 07/14/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 1.7 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.7	0.25	A-1			SP	12" Silty Topsoil				
756.4	0.50									
756.2	0.75									
755.9	1.00						1.0			
755.7	1.25									
755.4	1.50						1.7	Brown poorly graded SAND with clay and gravel; mostly coarse to fine sand, little coarse to fine gravel, few clayey fines, moist		
						End of Boring				Hand auger refusal at 1.7' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-8

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: BG Rev. By: RS

Coordinates: N=279847.4 E=13307317.3 (MI South 1ft)

Elevation: 750.4 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Date Begin: 07/13/2023

Date End: 07/13/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	2.6
Sampler	Hand Auger	3 1/4"	End	2.6
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings, patched pavement with cold patch.

Depth Drilled: 4.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
750.2	0.25	A-1		4		36" Clayey Topsoil				
749.9	0.50									
749.7	0.75									
749.4	1.00									
749.2	1.25									
748.9	1.50									
748.7	1.75									
748.4	2.00	A-2		5						
748.2	2.25									
747.9	2.50									
747.7	2.75	A-3			CL	Dark brown lean CLAY; mostly clayey fines, moist, Fill with occasional tree roots and wood debris	2.25	49.9		Small plastic wire casing encountered at 3.0'
747.4	3.00									
747.2	3.25									
746.9	3.50									
746.7	3.75									
746.4	4.00									
						End of Boring				Hand auger refusal at 4.0' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-9

Sheet: 1 of 1

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: Hand Auger
 Crew Chief: Field Eng.: IA Rev. By: RS
 Coordinates: N=279764.8 E=13307368.4 (MI South 1ft)
 Elevation: 761.3 ft Datum: NAVD 88 (GPS Observation)
 Notes:
 Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/18/2023 Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	4.0
Sampler	Hand Auger	3 1/4"	End	4.0
Core			Seepage	4.0
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 7.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
761.1	0.25	A-1				8" Clayey Topsoil				Fill: 0.0' to 7.0'
760.8	0.50									
760.6	0.75						0.7			
760.3	1.00	A-2			CL	Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, few coarse to fine gravel, moist, Fill with occasional root fragments	1.5			
760.1	1.25									
759.8	1.50									
759.6	1.75									
759.3	2.00									
759.1	2.25									
758.8	2.50									
758.6	2.75	A-3			CL	Grades without root fragments	2.0			
758.3	3.00									
758.1	3.25									
757.8	3.50									
757.6	3.75	A-4			CL	Grades with possible asphalt debris at 3.7' Grades with wet sand seams at 4.0'	5.0			
757.3	4.00									
757.1	4.25									
756.8	4.50									
756.6	4.75									
756.3	5.00	A-3			CL	Brown lean CLAY; mostly clayey fines, trace medium to fine sand, moist, Fill	3.0			
756.1	5.25									
755.8	5.50									
755.6	5.75	A-4			CL	Grades with organic inclusions and occasional roots at 6.5'	3.0			
755.3	6.00									
755.1	6.25									
754.8	6.50									
754.6	6.75	A-4			CL	Grades with organic inclusions and occasional roots at 6.5'	3.0			
754.3	7.00									
						End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-10

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: BG Rev. By: RS

Coordinates: N=279767.8 E=13307372.1 (MI South ift)

Elevation: 755.1 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/19/2023

Date End: 07/19/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	9.0
Sampler	Hand Auger	3 1/4"	End	9.0
Core			Seepage	9.0
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 9.2 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
754.9	0.25	A-1				18" Clayey Topsoil				Fill: 0.0' to 7.5'
754.6	0.50									
754.4	0.75									
754.1	1.00									
753.9	1.25									
753.6	1.50									
753.4	1.75	A-2			CL	Brown lean CLAY; mostly clayey fines, trace fine gravel, moist, Fill with occasional asphalt debris and root fragments	1.5	2.0		
753.1	2.00									
752.9	2.25									
752.6	2.50									
752.4	2.75									
752.1	3.00									
751.9	3.25	A-3			CL		1.75			
751.6	3.50									
751.4	3.75									
751.1	4.00									
750.9	4.25									
750.6	4.50									
750.4	4.75	A-4			CL		1.75			
750.1	5.00									
749.9	5.25									
749.6	5.50									
749.4	5.75									
749.1	6.00									
748.9	6.25	A-4			CL		2.0			
748.6	6.50									
748.4	6.75									
748.1	7.00									
747.9	7.25									
747.6	7.50									
747.4	7.75	A-4			CL	Grades with few coarse to fine sand at 6.9'	7.5			
747.1	8.00									
746.9	8.25									
746.6	8.50									
746.4	8.75	A-4			CL					
746.1	9.00									
						End of Boring	9.2			Auger refusal at 9.2' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-11

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: IA Rev. By: RS

Coordinates: N=279770.9 E=13307376.6 (MI South ift)

Elevation: 748.0 ft Datum: NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/18/2023

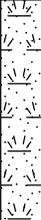
Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	1.5
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 1.7 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
747.8	0.25	A-1				20" Dark Brown Clayey Topsoil with roots				
747.5	0.50									
747.3	0.75									
747.0	1.00									
746.8	1.25									
746.5	1.50									

1.7

End of Boring

Auger refusal at 1.7' due to possible coarse gravel / COBBLE

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-11A

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: IA Rev. By: RS

Coordinates: N=279770.9 E=13307376.6 (MI South ift)

Elevation: 748.0 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/18/2023

Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	1.5
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 2.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS	
747.8	0.25	A-1			[Symbol]	18" Clayey Topsoil					
747.5	0.50										
747.3	0.75										
747.0	1.00										
746.8	1.25										
746.5	1.50							1.5			
746.3	1.75						SP-SC	Brown poorly graded SAND with clay; mostly coarse to fine sand, few clayey fines, wet			
746.0	2.00							2.0			
						End of Boring				Auger refusal at 2.0' due to possible coarse gravel / COBBLE	

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-12

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: IA **Rev. By:** RS

Coordinates: N=279804.0 E=13307335.7 (MI South 1ft)

Elevation: 763.8 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Date Begin: 07/18/2023

Date End: 07/18/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Plugging Record: Backfilled borehole with compacted cuttings, patched pavement with cold patch.

Depth Drilled: 6.0 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
763.6	0.25	A-1			CL	8" Clayey Topsoil				Fill: 0.0' to 6.0'
763.3	0.50									
763.1	0.75									
762.8	1.00									
762.6	1.25									
762.3	1.50									
762.1	1.75									
761.8	2.00									
761.6	2.25									
761.3	2.50									
761.1	2.75	A-2				Brown lean CLAY with sand; mostly clayey fines, little coarse to fine sand, few coarse to fine gravel, moist, Fill	0.7			
760.8	3.00									
760.6	3.25									
760.3	3.50									
760.1	3.75									
759.8	4.00									
759.6	4.25									
759.3	4.50									
759.1	4.75									
758.8	5.00									
758.6	5.25	A-3								
758.3	5.50									
758.1	5.75									
757.8	6.00						Grades with occasional root fragments at 5.8'	3.0		
						End of Boring	6.0			

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-13

Sheet: 1 of 1

Project: Huron River Drive Slope Failure

Client: Spalding DeDecker

Location: Ann Arbor, Michigan

Drill Type: Hand Auger

Crew Chief: Field Eng.: BG Rev. By: RS

Coordinates: N=279807.1 E=13307341.0 (MI South ift)

Elevation: 757.0 ft **Datum:** NAVD 88 (GPS Observation)

Notes:

Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/19/2023

Date End: 07/19/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	None
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 2.5 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.8	0.25	A-1			CL	18" Clayey Topsoil	1.5	2.0		Fill: 0.0' to 2.5'
756.5	0.50									
756.3	0.75									
756.0	1.00									
755.8	1.25									
755.5	1.50									
755.3	1.75	A-2			CL	Brown lean CLAY; mostly clayey fines, trace coarse to fine gravel, moist, Fill with occasional asphalt debris and root fragments	2.5	2.0		Auger refusal at 2.5' due to possible coarse gravel / COBBLE
755.0	2.00									
754.8	2.25									
754.5	2.50					End of Boring				

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



LOG OF BORING

Project No.: 231349

Boring No.: B-14

Sheet: 1 of 1

Project: Huron River Drive Slope Failure
 Client: Spalding DeDecker
 Location: Ann Arbor, Michigan
 Drill Type: Hand Auger
 Crew Chief: Field Eng.: IA Rev. By: RS
 Coordinates: N=279807.1 E=13307341.0 (MI South 11)
 Elevation: 757.0 ft Datum: NAVD 88 (GPS Observation)
 Notes:
 Plugging Record: Backfilled borehole with compacted cuttings.

Date Begin: 07/27/2023 Date End: 07/27/2023

Tooling	Type	Dia.	Groundwater, ft.	
Casing			During	5.0
Sampler	Hand Auger	3 1/4"	End	NA
Core			Seepage	
Tube			Date	Depth, ft.
SPT Hammer				

Depth Drilled: 9.2 ft.

Component Percentages: Trace < 5%, Few 5-10%, Little 15-25%, Some 30-45%, Mostly 50-100%

QP = Calibrated Penetrometer (tons/sq. ft.)

Elev. FT.	Depth FT.	Sample Number	Recov. FT.	Dyn. Cone Eq. "N": ASTM STP 399	*USCS Group Symbol	*DESCRIPTION	QP tsf	MST %	DD pcf	REMARKS
756.8	0.25					2" Sandy Topsoil	0.2			Fill: 0.0' to 6.0'
756.5	0.50					Brown lean CLAY with sand and gravel; mostly clayey fines, some coarse to fine sand, little coarse to fine gravel, moist, Fill				
756.3	0.75									
756.0	1.00						2.5			
755.8	1.25									
755.5	1.50									
755.3	1.75									
755.0	2.00									
754.8	2.25									
754.5	2.50									
754.3	2.75						2.5			
754.0	3.00									
753.8	3.25									
753.5	3.50									
753.3	3.75									
753.0	4.00									
752.8	4.25									
752.5	4.50						3.5			
752.3	4.75									
752.0	5.00									
751.8	5.25									
751.5	5.50									
751.3	5.75									
751.0	6.00	A-1					6.0	4.0		
750.8	6.25									
750.5	6.50									
750.3	6.75									
750.0	7.00									
749.8	7.25	U-1						15.6		
749.5	7.50									
749.3	7.75									
749.0	8.00									
748.8	8.25									
748.5	8.50									
748.3	8.75	U-2						4.0		
748.0	9.00									
							9.2			
						End of Boring				

U-1: Atterberg Limits
 ASTM D4318: LL = 41, PL = 18, PI = 23

* Visual estimate following ASTM D 2488 unless laboratory testing has been performed. Stratification changes are approximated between samples.



SUMMARY OF LABORATORY TEST DATA

Boring Number	Sample No.*	Sample Depth (ft)	Sample Description (USCS Symbol)	Natural Moisture Content (%)	Atterberg Limits (ASTM D4318)		
					LL	PL	PI
B-1	S-2	3.5-5	CL	2.9			
B-1	S-3	6.0-7.5	CL	19.6			
B-1	S-4	8.5-10	CL	22.2			
B-1	S-5	13.5-15	CL	14.0			
B-1	S-9	33.5-35	CL	13.2			
B-1	S-10	38.5-40	CL	21.9			
B-2	S-5	11-12.5	CL	23.1	20	11	9
B-2	S-6	13.5-15	CL	19.3			
B-2	S-7	18.5-20	CL	17.4			
B-2	S-9	28.5-30	CL	16.0			
B-2	S-10	33.5-35	CL	19.6	29	13	16
B-2	S-11	38.5-40	CL	13.5			
B-3	S-2	3.5-5	CL	14.9			
B-3	S-3	6.0-7.5	CL	24.8			
B-3	S-4	8.5-10	CL	18.0			
B-3	S-5	13.5-15	CL	18.7			
B-3	S-6	18.5-20	CL	18.4			
B-3	S-7	23.5-25	CL	17.4			
B-3	S-8	28.5-30	CL	16.0			
B-3	S-10	38.5-40	CL	23.1			
B-4	S-2	3.5-5	CL	8.9			
B-4	S-3	6.0-7.5	CL	14.7			
B-4	S-4	8.5-10	CL	13.9			
B-4	S-5	13.5-15	CL	11.0			
B-4	S-6	18.5-20	CL	18.2			
B-4	S-7	23.5-25	CL	14.4			
B-5	S-2	3.5-5	CL	18.6			
B-5	S-3	6.0-7.5	CL	21.0			
B-5	S-4	8.5-10	CL	20.7			
B-5	S-5	13.5-15	CL	18.1			
B-5	S-10	38.5-40	CL	20.4			
B-8	A-3	3-3.25	CL	49.9			
B-14	U-1	7.0-7.8	CL	15.6	41	18	23

* S – Split Spoon Sample (ASTM D 1586)
 A – Grab Sample
 U – Shelby Sample (ASTM D 1587)

"General Decision Number: MI20250001 09/05/2025

Superseded General Decision Number: MI20240001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the

Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	05/16/2025
2	05/30/2025
3	06/06/2025
4	07/04/2025
5	07/11/2025
6	07/25/2025
7	08/08/2025
8	08/29/2025
9	09/05/2025

CARP0004-004 06/01/2019

REMAINDER OF STATE

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 27.62	20.59

CARP0004-005 06/01/2018

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

	Rates	Fringes
CARPENTER (Piledriver).....	\$ 30.50	27.28

ELEC0017-005 06/01/2025

STATEWIDE

	Rates	Fringes
Line Construction		
Groundman/Driver.....	\$ 33.32	33%+7.40
Journeyman Signal Tech,		

Communications Tech, Tower		
Tech & Fiber Optic Splicers.....	\$ 49.26	33%+7.40
Journeyman Specialist.....	\$ 56.65	33%+7.40
Operator A.....	\$ 41.71	33%+7.40
Operator B.....	\$ 38.98	33%+7.40

Classifications

Journeyman Specialist: Refers to a crew of only one person working alone.

Operator A: Shall be proficient in operating all power equipment including: Backhoe, Excavator, Directional Bore and Boom/Digger truck.

Operator B: Shall be proficient in operating any 2 of the above mentioned pieces of equipment listed under Operator A.

 ENGI0324-003 06/01/2025

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
GROUP 1.....	\$ 55.42	28.25
GROUP 2.....	\$ 56.42	28.25
GROUP 3.....	\$ 53.92	28.25
GROUP 4.....	\$ 54.92	28.25
GROUP 5.....	\$ 52.42	28.25
GROUP 6.....	\$ 53.42	28.25
GROUP 7.....	\$ 52.15	28.25
GROUP 8.....	\$ 53.15	28.25
GROUP 9.....	\$ 51.70	28.25
GROUP 10.....	\$ 52.70	28.25
GROUP 11.....	\$ 50.97	28.25
GROUP 12.....	\$ 51.97	28.25
GROUP 13.....	\$ 50.61	28.25
GROUP 14.....	\$ 51.61	28.25
GROUP 15.....	\$ 49.97	28.25
GROUP 16.....	\$ 46.77	28.25
GROUP 17.....	\$ 32.29	15.40
GROUP 18.....	\$ 35.78	28.25

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Engineer when operating combination of boom and jib 400' or longer

GROUP 2: Engineer when operating combination of boom and jib 400' or longer on a crane that requires an oiler

GROUP 3: Engineer when operating combination of boom and jib 300' or longer

GROUP 4: Engineer when operating combination of boom and jib 300' or longer on a crane that requires an oiler

GROUP 5: Engineer when operating combination of boom and jib 220' or longer

GROUP 6: Engineer when operating combination of boom and jib 220' or longer on a crane that requires an oiler

GROUP 7: Engineer when operating combination of boom and jib 140' or longer

GROUP 8: Engineer when operating combination of boom and jib 140' or longer on a crane that requires an oiler

GROUP 9: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level)

GROUP 10: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level) on a crane that requires an oiler

GROUP 11: Engineer when operating combination of boom and jib 120' or longer

GROUP 12: Engineer when operating combination of boom and jib 120' or longer on a crane that requires an oiler

GROUP 13: Crane operator; job mechanic and 3 drum hoist and excavator

GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

ENGI0324-004 06/01/2025

AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN

AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
AREA 1		
GROUP 1.....	\$ 55.02	28.25
GROUP 2.....	\$ 52.15	28.25
GROUP 3.....	\$ 50.61	28.25
GROUP 4.....	\$ 46.77	28.25
GROUP 5.....	\$ 32.29	15.40
GROUP 6.....	\$ 35.78	28.25
AREA 2		
GROUP 1.....	\$ 55.02	28.25
GROUP 2.....	\$ 52.15	28.25
GROUP 3.....	\$ 50.61	28.25
GROUP 4.....	\$ 46.77	28.25
GROUP 5.....	\$ 32.29	15.40
GROUP 6.....	\$ 35.78	28.25

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 additional to the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 additional to the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

* ENGI0324-005 09/01/2025

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKE, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

Rates Fringes

OPERATOR: Power Equipment
(Underground construction
(including sewer))

AREA 1:

GROUP 1.....	\$ 45.98	25.25
GROUP 2.....	\$ 41.25	25.25
GROUP 3.....	\$ 40.52	25.25
GROUP 4.....	\$ 39.95	25.25
GROUP 5.....	\$ 30.35	12.10

AREA 2:

GROUP 1.....	\$ 45.98	25.25
--------------	----------	-------

GROUP 2.....	\$ 41.25	25.25
GROUP 3.....	\$ 40.52	25.25
GROUP 4.....	\$ 39.95	25.25
GROUP 5.....	\$ 30.35	12.10

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backfiller tamper; Backhoe; Batch plant operator (concrete); Clamshell; Concrete paver (2 drums or larger); Conveyor loader (Euclid type); Crane (crawler, truck type or pile driving); Dozer; Dragline; Elevating grader; Endloader; Gradall (and similar type machine); Grader; Mechanic; Power shovel; Roller (asphalt); Scraper (self-propelled or tractor drawn); Side boom tractor (type D-4 or equivalent and larger); Slip form paver; Slope paver; Trencher (over 8 ft. digging capacity); Well drilling rig; Concrete pump with boom operator; Hydro Excavator

GROUP 2: Boom truck (power swing type boom); Crusher; Hoist; Pump (1 or more - 6-in. discharge or larger - gas or diesel- powered or powered by generator of 300 amperes 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-ft. digging capacity and smaller); Vac Truck and End dump operator;

GROUP 3: 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-1/2 yd. or larger); Elevator (other than passenger); Maintenance person; Pump (2 or more-4-in. up to 6-in. discharge-gas or diesel powered - excluding submersible pumps); Pumpcrete machine (and similar equipment); Wagon drill (multiple); Welding machine or generator (2 or more-300 amp. or larger - gas or diesel powered)

GROUP 4: Boiler; Concrete saw (40 hp or over); Curing machine (self-propelled); Farm tractor (with attachment); Finishing machine (concrete); Hydraulic pipe pushing machine; Mulching equipment; Pumps (2 or more up to 4-in. discharge, if used 3 hours or more a day, gas or diesel powered - excluding submersible pumps); Roller (other than asphalt); Stump remover; Trencher (service); Vibrating compaction equipment, self-propelled (6 ft. wide or over); Sweeper (Wayne type); Water wagon and Extend-a boom forklift

Group 5: Fire Person, Oiler

* ENGI0324-006 06/01/2025

GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW, WAYNE, ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
Power equipment operators: (AIRPORT, BRIDGE & HIGHWAY CONSTRUCTION)		
GROUP 1.....	\$ 46.21	25.25
GROUP 2.....	\$ 45.06	25.25
GROUP 3.....	\$ 38.33	25.25
GROUP 4.....	\$ 37.77	25.25

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Paver Operator (5 bags or more); Slip Form Paver; Asphalt Paver (self propelled); Shovel (Excavator) installing utilities over 20 feet in depth.

Group 2: Asphalt plant operator; crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline operator; Shovel (Excavator) operator; Locomotive operator; Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Bulldozer; Hoisting engineer; Tractor operator; Finishing machine operator (asphalt); Mechanic; Pump operator (6-in. discharge or over, gas, diesel powered or generator of 300 amp. or larger); Shouldering or gravel distributing machine operator (self-propelled); Backhoe (with over 3/8 yd. bucket); Side boom tractor (type D-4 or equivalent or larger); Tube finisher (slip form paving); Gradall (and similar type machine);

Asphalt planner (self- propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete pump (3 in. and over); Roto-mill; Swinging boom truck (over 12 ton capacity); Hydro demolisher (water blaster); Farm-type tractor with attached pan; Vacuum truck operator; Batch Plant (concrete dry batch); Concrete Saw Operator (40h.p. or over; Tractor Operator (farm type); Finishing Machine Operator (concrete); Grader Operator (self-propelled fine grade or form (concrete); tractor operator (farm type with attachment); Wagon Drill operator; Boom or winch hoist truck operator.

GROUP 3: Screening plant operator; Washing plant operator; Crusher operator; Backhoe (with 3/8 yd. bucket or less); Side boom tractor (smaller than D-4 type or equivalent); Sweeper (Wayne type and similar equipment); Greese Truck; Air Compressor Operator (600 cu.ft. per min or more); Air Compressor Operator (two or more, less than 600 cfm); End Loader operator (1 yard Capacity and over); Side boom tractor (type D or equivalent or larger; Endloader operator *under 1 yard capacity; Trencher (service).

GROUP 4: Boiler fire tender; Concrete Breaker; Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Roller operator (other than asphalt); Curing equipment operator (self-propelled); Power bin operator; Plant drier operator (asphalt); Vibratory compaction equipment operator (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self-propelled); End dump;Skid steer.

 ENGI0324-007 05/01/2025

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
OPERATOR: Power Equipment (Steel Erection)		
Compressor, welder and forklift.....	\$ 43.30	25.00
Crane operator, main boom & jib 120' or longer.....	\$ 49.77	25.00
Crane operator, main boom & jib 140' or longer.....	\$ 50.07	24.60

Crane operator, main boom & jib 220' or longer.....	\$ 50.66	25.00
Mechanic with truck and tools.....	\$ 48.90	25.00
Oiler and fireman.....	\$ 41.76	25.00
Regular operator.....	\$ 47.12	25.00

 ENGI0324-008 10/01/2023

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY,
 BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA,
 MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE,
 MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
 OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST.
 CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA,
 VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

Rates Fringes

OPERATOR: Power Equipment
 (Sewer Relining)

GROUP 1.....	\$ 37.37	15.44
GROUP 2.....	\$ 35.33	15.44

SEWER RELINING CLASSIFICATIONS

GROUP 1: Operation of audio-visual closed circuit TV system,
 including remote in-ground cutter and other equipment used
 in connection with the CCTV system

GROUP 2: Operation of hot water heaters and circulation
 systems, water jetters and vacuum and mechanical debris
 removal systems

 ENGI0325-012 05/01/2025

Rates Fringes

Power equipment operators -
 gas distribution and duct
 installation work:

GROUP 1.....	\$ 39.78	25.25
--------------	----------	-------

GROUP 2.....\$ 36.05 25.25

SCOPE OF WORK: The construction, installation, treating and reconditioning of pipelines transporting gas vapors within cities, towns, subdivisions, suburban areas, or within private property boundaries, up to and including private meter settings of private industrial, governmental or other premises, more commonly referred to as "distribution work," starting from the first metering station, connection, similar or related facility, of the main or cross country pipeline and including duct installation.

Group 1: Backhoe, crane, grader, mechanic, dozer (D-6 equivalent or larger), side boom (D-4 equivalent or larger), trencher(except service), endloader (2 yd. capacity or greater).

GROUP 2: Dozer (less than D-6 equivalent), endloader (under 2 yd. capacity), side boom (under D-4 capacity), backfiller, pumps (1 or 2 of 6-inch discharge or greater), boom truck (with powered boom), tractor (wheel type other than backhoe or front endloader). Tamper (self-propelled), boom truck (with non-powered boom), concrete saw (20 hp or larger), pumps (2 to 4 under 6-inch discharge), compressor (2 or more or when one is used continuously into the second day) and trencher(service). Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

IRON0008-007 06/01/2024

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector.....	\$ 23.70	6.95
IRONWORKER		
General contracts		
\$10,000,000 or greater.....	\$ 39.91	32.32
General contracts less		
than \$10,000,000.....	\$ 39.91	32.32

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

IRON0025-002 06/01/2025

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector		
ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX, EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:..	\$ 28.80	27.43
Bay, Genesee, Lapeer, Livingston (east of Burkhardt Road), Macomb, Midland, Oakland, Saginaw, St. Clair, The University of Michigan, Washtenaw (east of U.S. 23) & Wayne...	\$ 30.02	28.13
IRONWORKER		
Ornamental and Structural...	\$ 36.55	35.93
Reinforcing.....	\$ 36.55	32.87

IRON0055-005 07/01/2022

LENAWEE AND MONROE COUNTIES:

	Rates	Fringes
IRONWORKER		
Pre-engineered metal buildings.....	\$ 23.59	19.35
All other work.....	\$ 33.00	27.20

IRON0292-003 06/01/2020

BERRIEN AND CASS COUNTIES:

	Rates	Fringes
IRONWORKER (Including pre-engineered metal building erector).....	\$ 31.75	22.84

* LAB00005-006 10/01/2022

	Rates	Fringes
Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE AND WEXFORD COUNTIES - Zone 10)		
Levels A, B or C.....	\$ 17.45 **	12.75
class b.....	\$ 18.64	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 16.45 **	12.75
class a.....	\$ 17.64 **	12.90

Zone 10

Laborers - hazardous waste abatement: (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - Zone 11)		
Levels A, B or C.....	\$ 25.18	12.90
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....	\$ 22.58	12.90

Laborers - hazardous waste abatement: (ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN,

CASS, IONIA COUNTY (except the city of Portland); KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH AND VAN BUREN COUNTIES - Zone 9)		
Levels A, B or C.....\$ 21.88		13.26
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 20.80		12.90
Laborers - hazardous waste abatement: (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - Zone 8)		
Levels A, B or C.....\$ 23.74		12.95
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 20.80		12.90
Laborers - hazardous waste abatement: (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); LIVINGSTON COUNTY (west of Oak Grove Rd., including the City of Howell) - Zone 6)		
Levels A, B or C.....\$ 26.33		12.95
Work performed in conjunction with site preparation not requiring the use of personal protective equipment;		
Also, Level D.....\$ 24.64		12.90
Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES - Zone 7)		
Levels A, B or C.....\$ 24.20		13.80
Work performed in conjunction with site preparation not requiring		

the use of personal protective equipment; Also, Level D.....\$ 23.20	13.80
Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEE COUNTIES - Zone 4)	
Levels A, B or C.....\$ 27.13 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 24.17	14.95
Laborers - hazardous waste abatement: (LIVINGSTON COUNTY (east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND WASHTENAW COUNTY - Zone 3)	
Levels A, B or C.....\$ 29.93 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 28.93	14.20
Laborers - hazardous waste abatement: (MACOMB AND WAYNE COUNTIES - Zone 1)	
Levels A, B or C.....\$ 29.93 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 28.93	16.90
Laborers - hazardous waste abatement: (MONROE COUNTY - Zone 4)	
Levels A, B or C.....\$ 31.75 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 31.75	14.90
Laborers - hazardous waste abatement: (OAKLAND COUNTY and the Northeast portion of	

GROUP 6.....	\$ 24.55	16.93
GROUP 7.....	\$ 17.83	16.93
AREA 2		
GROUP 1.....	\$ 30.00	17.45
GROUP 2.....	\$ 32.00	17.45
GROUP 3.....	\$ 28.00	17.45
GROUP 4.....	\$ 29.57	16.93
GROUP 5.....	\$ 25.76	16.93
GROUP 6.....	\$ 26.07	16.93
GROUP 7.....	\$ 25.57	16.93

SCOPE OF WORK: Tunnel, shaft and caisson work of every type and description and all operations incidental thereto, including, but not limited to, shafts and tunnels for sewers, water, subways, transportation, diversion, sewerage, caverns, shelters, aquifers, reservoirs, missile silos and steel sheeting for underground construction.

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), first bottom, second bottom, cage tender, car pusher, carrier, concrete, concrete form, concrete repair, cement invert laborer, cement finisher, concrete shoveler, conveyor, floor, gasoline and electric tool operator, gunite, grout operator, welder, heading dinky person, inside lock tender, pea gravel operator, pump, outside lock tender, scaffold, top signal person, switch person, track, tugger, utility person, vibrator, winch operator, pipe jacking, wagon drill and air track operator and concrete saw operator (under 40 h.p.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner plate, long haul dinky driver and well point

GROUP 5: Tunnel, shaft and caisson miner, drill runner, key board operator, power knife operator, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, etc.)

GROUP 6: Dynamite and powder

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips,

planter boxes, flagstones, etc.

LAB00334-001 09/01/2024

	Rates	Fringes
Laborers - open cut:		
ZONE 1 - MACOMB, OAKLAND AND WAYNE COUNTIES:		
GROUP 1.....	\$ 27.71	22.11
GROUP 2.....	\$ 29.71	22.11
GROUP 3.....	\$ 25.87	22.11
GROUP 4.....	\$ 23.71	16.72
GROUP 5.....	\$ 24.17	16.72
GROUP 6.....	\$ 22.00	16.72
GROUP 7.....	\$ 17.84	16.72
ZONE 2 - LIVINGSTON COUNTY (east of M-151 (Oak Grove Rd.)); MONROE AND WASHTENAW COUNTIES:		
GROUP 1.....	\$ 29.65	17.45
GROUP 2.....	\$ 31.65	17.45
GROUP 3.....	\$ 27.65	17.45
GROUP 4.....	\$ 25.10	16.72
GROUP 5.....	\$ 25.25	16.72
GROUP 6.....	\$ 22.55	16.72
GROUP 7.....	\$ 22.11	16.72
ZONE 3 - CLINTON, EATON, GENESEE, HILLSDALE AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); JACKSON, LAPEER AND LENAWEE COUNTIES; LIVINGSTON COUNTY (west of M-151 Oak Grove Rd.); SANILAC, ST. CLAIR AND SHIAWASSEE COUNTIES:		
GROUP 1.....	\$ 27.84	17.45
GROUP 2.....	\$ 29.84	17.45
GROUP 3.....	\$ 25.84	17.45
GROUP 4.....	\$ 23.30	16.72
GROUP 5.....	\$ 23.44	16.72
GROUP 6.....	\$ 20.74	16.72
GROUP 7.....	\$ 22.23	16.72
ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,		

CHEBOYGAN, CLARE,
 CRAWFORD, EMMET,
 GLADWIN, GRAND TRAVERSE,
 GRATIOT AND HURON
 COUNTIES; IONIA COUNTY
 (EXCEPT THE CITY OF
 PORTLAND); IOSCO,
 ISABELLA, KALAMAZOO,
 KALKASKA, KENT,
 LAKE, LEELANAU, MANISTEE,
 MASON, MECOSTA, MIDLAND,
 MISSAUKEE, MONTCALM,
 MONTMORENCY, MUSKEGON,
 NEWAYGO, OCEANA, OGEMAW,
 OSCEOLA, OSCODA, OTSEGO,
 OTTAWA, PRESQUE ISLE,
 ROSCOMMON, SAGINAW, ST.
 JOSEPH, TUSCOLA, VAN BUREN
 AND WEXFORD COUNTIES:

GROUP 1.....	\$ 26.32	17.95
GROUP 2.....	\$ 28.32	17.95
GROUP 3.....	\$ 24.32	17.95
GROUP 4.....	\$ 22.33	16.72
GROUP 5.....	\$ 22.45	16.72
GROUP 6.....	\$ 19.67	16.72
GROUP 7.....	\$ 22.30	16.72

ZONE 5 - ALGER, BARAGA,
 CHIPPEWA, DELTA,
 DICKINSON, GOGEBIC,
 HOUGHTON, IRON,
 KEWEENAW, LUCE, MACKINAC,
 MARQUETTE, MENOMINEE,
 ONTONAGON AND SCHOOLCRAFT
 COUNTIES:

GROUP 1.....	\$ 26.09	18.45
GROUP 2.....	\$ 28.09	18.45
GROUP 3.....	\$ 24.09	18.45
GROUP 4.....	\$ 22.56	16.72
GROUP 5.....	\$ 22.64	16.72
GROUP 6.....	\$ 19.99	16.72
GROUP 7.....	\$ 22.45	16.72

SCOPE OF WORK:

Open cut construction work shall be construed to mean work which requires the excavation of earth including industrial, commercial and residential building site excavation and preparation, land balancing, demolition and removal of concrete and underground appurtenances, grading, paving, sewers, utilities and improvements; retention,

oxidation, flocculation and irrigation facilities, and also including but not limited to underground piping, conduits, steel sheeting for underground construction, and all work incidental thereto, and general excavation. For all areas except the Upper Peninsula, open cut construction work shall also be construed to mean waterfront work, piers, docks, seawalls, breakwalls, marinas and all incidental work. Open cut construction work shall not include any structural modifications, alterations, additions and repairs to buildings, or highway work, including roads, streets, bridge construction and parking lots or steel erection work and excavation for the building itself and back filling inside of and within 5 ft. of the building and foundations, footings and piers for the building. Open cut construction work shall not include any work covered under Tunnel, Shaft and Caisson work.

OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

GROUP 2: Mortar and material mixer, concrete form person, signal person, well point person, manhole, headwall and catch basin builder, headwall, seawall, breakwall and dock builder

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodder, reinforced steel or mesh person (e.g., wire mesh, steel mats, dowel bars, etc.), welder, pipe jacking and boring person, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger person and directional boring person

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

GROUP 6: Grouting man, 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 appurtenances

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

LAB00465-001 06/01/2025

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA AND VAN BUREN COUNTIES

AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON AND WEXFORD COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES

	Rates	Fringes
LABORER (AREA 1)		
GROUP 1.....	\$ 35.51	14.45
GROUP 2.....	\$ 31.96	14.45
GROUP 3.....	\$ 35.82	14.45
GROUP 4.....	\$ 35.90	14.45
GROUP 5.....	\$ 36.11	14.45
GROUP 6.....	\$ 36.41	14.45
LABORER (AREA 2)		
GROUP 1.....	\$ 33.37	14.45
GROUP 2.....	\$ 30.03	14.45
GROUP 3.....	\$ 33.81	14.45
GROUP 4.....	\$ 34.16	14.45
GROUP 5.....	\$ 34.03	14.45
GROUP 6.....	\$ 34.37	14.45
LABORER (AREA 3)		
GROUP 1.....	\$ 32.62	14.45
GROUP 2.....	\$ 33.83	14.45
GROUP 3.....	\$ 33.12	14.45
GROUP 4.....	\$ 33.56	14.45
GROUP 5.....	\$ 33.18	14.45
GROUP 6.....	\$ 33.61	14.45
LABORER (AREA 4)		

GROUP 1.....	\$ 33.52	13.45
GROUP 2.....	\$ 33.73	13.45
GROUP 3.....	\$ 34.02	13.45
GROUP 4.....	\$ 34.46	13.45
GROUP 5.....	\$ 34.08	13.45
GROUP 6.....	\$ 34.51	13.45

LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.; burlap person; yard person; dumper (wagon, truck, etc.); joint filling laborer; miscellaneous laborer; unskilled laborer; sprinkler laborer; form setting laborer; form stripper; pavement reinforcing; handling and placing (e.g., wire mesh, steel mats, dowel bars); mason's tender or bricklayer's tender on manholes; manhole builder; headwalls, etc.; waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning; pressure grouting; bridge pin and hanger removal; material recycling laborer; horizontal paver laborer (brick, concrete, clay, stone and asphalt); ground stabilization and modification laborer; grouting; waterblasting; top person; railroad track and trestle laborer; carpenters' tender; guard rail builders' tender; earth retention barrier and wall and M.S.E. wall installer's tender; highway and median installer's tender (including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

GROUP 2: Mixer operator (less than 5 sacks); air or electric tool operator (jackhammer, etc.); spreader; boxperson (asphalt, stone, gravel); concrete paddler; power chain saw operator; paving batch truck dumper; tunnel mucker (highway work only); concrete saw (under 40 h.p.) and dry pack machine; roto-mill grounds person.

GROUP 3: Tunnel miner (highway work only); finishers tenders; guard rail builders; highway and median barrier installer; earth retention barrier and wall and M.S.E. wall installer's (including sound, retaining and crash barriers); fence erector; bottom person; powder person; wagon drill and air track operator; diamond and core drills; grade checker; certified welders; curb and side rail setter's tender.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt

screed checker/screw man on asphalt paving machines.

LAB01076-005 04/01/2025

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1.....	\$ 28.41	13.45
Zone 2.....	\$ 24.55	13.45
Zone 3.....	\$ 23.55	13.45
Zone 4.....	\$ 22.92	13.45
Zone 5.....	\$ 22.95	13.45

DISTRIBUTION WORK - The construction, installation, treating and reconditioning of distribution pipelines transporting coal, oil, gas or other similar materials, vapors or liquids, including pipelines within private property boundaries, up to and including the meter settings on residential, commercial, industrial, institutional, private and public structures. All work covering pumping stations and tank farms not covered by the Building Trades Agreement. Other distribution lines with the exception of sewer, water and cable television are included.

Underground Duct Layer Pay: \$.40 per hour above the base pay rate.

- Zone 1 - Macomb, Oakland and Wayne
- Zone 2 - Monroe and Washtenaw
- Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair
- Zone 4 - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon and Schoolcraft
- Zone 5 - Remaining Counties in Michigan

PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (east of the eastern city limits of Howell, not including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES:

Rates Fringes

PAINTER.....\$ 25.06 14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 per hour additional (applies only to workers doing rigging for spray work on off the floor work. Does not include setting up or moving rigging on floor surfaces, nor does it apply to workers engaged in covering up or tending spray equipment. For all sandblasting and spray work performed on highway bridges, overpasses, tanks or steel, \$0.80 per hour additional. For all brushing, cleaning and other preparatory work (other than spraying or steeplejack work) at scaffold heights of fifty (50) feet from the ground or higher, \$0.50 per hour additional. For all preparatorial work and painting performed on open steel under forty (40) feet when no scaffolding is involved, \$0.50 per hour additional. For all swing stage work-window jacks and window belts-exterior and interior, \$0.50 per hour additional. For all spray work and sandblaster work to a scaffold height of forty (40) feet above the floor level, \$0.80 per hour additional. For all preparatorial work and painting on all highway bridges or overpasses up to forty (40) feet in height, \$0.50 per hour additional. For all steeplejack work performed where the elevation is forty (40) feet or more, \$1.25 per hour additional.

 PAIN0312-001 06/01/2018

EXCLUDES: ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); INCLUDES: Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, Van Buren

	Rates	Fringes
PAINTER		
Brush and roller.....	\$ 23.74	13.35
Spray, Sandblast, Sign		
Painting.....	\$ 24.94	13.35

 PAIN0845-003 05/10/2018

CLINTON COUNTY; EATON COUNTY (does not include the townships of Bellevue and Olivet); INGHAM COUNTY; IONIA COUNTY (east of Hwy. M 66); LIVINGSTON COUNTY (west of the eastern city limits of Howell, including the city of Howell, north to the Genesee

County line and south to the Washtenaw County line); AND SHIAWASSEE COUNTY (Townships of Bennington, Laingsbury and Perry):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-015 05/10/2018		

MUSKEGON COUNTY; NEWAYGO COUNTY (except the Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OCEANA COUNTY; OTTAWA COUNTY (except the townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

PAIN0845-018 05/10/2018		

ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); IONIA COUNTY (west of Hwy. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OSCEOLA COUNTY (south of Hwy. #10); OTTAWA COUNTY (Townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER.....	\$ 25.49	13.74

FOOTNOTES: Lead abatement work: \$1.00 per hour additional.

PAIN1011-003 06/02/2022

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

Rates	Fringes
-------	---------

PAINTER.....\$ 24.66 14.99

FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.

PAIN1474-002 06/01/2010

HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:

Rates Fringes

PAINTER.....\$ 23.79 12.02

FOOTNOTES: Lead abatement work: \$1.00 per hour additional. Work with any hazardous material: \$1.00 per hour additional. Sandblasting, steam cleaning and acid cleaning: \$1.00 per hour additional. Ladder work at or above 40 ft., scaffold work at or above 40 ft., swing stage, boatswain chair, window jacks and all work performed over a falling height of 40 ft.: \$1.00 per hour additional. Spray gun work, pick pullers and those handling needles, blowing off by air pressure, and any person rigging (setting up and moving off the ground): \$1.00 per hour additional. Steeplejack, tanks, gas holders, stacks, flag poles, radio towers and beacons, power line towers, bridges, etc.: \$1.00 per hour additional, paid from the ground up.

* PAIN1803-003 06/01/2025

ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (north of Hwy. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES:

Rates Fringes

PAINTER
Work performed on water, bridges over water or moving traffic, radio and powerline towers, elevated

tanks, steeples, smoke stacks over 40 ft. of falling heights, recovery of lead-based paints and any work associated with industrial plants, except maintenance of industrial plants.....	\$ 29.23	19.11
All other work, including maintenance of industrial plant.....	\$ 29.35	19.05

FOOTNOTES: Spray painting, sandblasting, blowdown associated with spraying and blasting, water blasting and work involving a swing stage, boatswain chair or spider: \$1.00 per hour additional. All work performed inside tanks, vessels, tank trailers, railroad cars, sewers, smoke stacks, boilers or other spaces having limited egress not including buildings, opentop tanks, pits, etc.: \$1.25 per hour additional.

 PLAS0514-001 06/01/2023

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW, WASHTENAW AND WAYNE COUNTIES

ZONE 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1.....	\$ 33.00	18.51
ZONE 2.....	\$ 31.50	18.51

 PLUM0190-003 05/01/2015

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY,

BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND
 TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA,
 IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT,
 KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE,
 MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA,
 MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE,
 MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA,
 OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST.
 CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA,
 VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

	Rates	Fringes
Plumber/Pipefitter - gas distribution pipeline:		
Welding in conjunction with gas distribution pipeline work.....	\$ 33.03	20.19
All other work:.....	\$ 24.19	12.28

 TEAM0007-004 06/01/2025

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA,
 BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX,
 CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA,
 DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE,
 GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO,
 IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW,
 LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE,
 MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE,
 MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW,
 ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE,
 ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST.
 CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW
 AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER		
AREA 1		
Euclids, double bottoms and lowboys.....	\$ 33.55	.75 + a+b
Trucks under 8 cu. yds.....	\$ 33.40	.75 + a+b
Trucks, 8 cu. yds. and		

over.....	\$ 33.40	.75 + a+b
AREA 2		
Euclids, double bottoms and lowboys.....	\$ 33.65	.75 + a+b
Trucks under 8 cu. yds.....	\$ 33.50	.75 + a+b
Trucks, 8 cu. yds. and over.....	\$ 33.50	.75 + a+b

Footnote:

a. \$470.70 per week

b. \$68.70 daily

TEAM0247-004 04/01/2013

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
Sign Installer		
AREA 1		
GROUP 1.....	\$ 21.78	11.83
GROUP 2.....	\$ 25.27	11.8375
AREA 2		
GROUP 1.....	\$ 22.03	11.83
GROUP 2.....	\$ 25.02	11.8375

FOOTNOTE:

a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

GROUP 1: performs all necessary labor and uses all tools required to construct and set concrete forms required in

the installation of highway and street signs

GROUP 2: performs all miscellaneous labor, uses all hand and power tools, and operates all other equipment, mobile or otherwise, required for the installation of highway and street signs

TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

	Rates	Fringes
TRUCK DRIVER (Underground construction)		
AREA 1		
GROUP 1.....	\$ 23.82	19.04
GROUP 2.....	\$ 23.91	19.04
GROUP 3.....	\$ 24.12	19.04
AREA 2		
GROUP 1.....	\$ 24.12	19.04
GROUP 2.....	\$ 24.26	19.04
GROUP 3.....	\$ 24.45	19.04

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

SCOPE OF WORK: Excavation, site preparation, land balancing, grading, sewers, utilities and improvements; also including but not limited to, tunnels, underground piping, retention, oxidation, flocculation facilities, conduits, general excavation and steel sheeting for underground construction. Underground construction work shall not include any structural modifications, alterations, additions and repairs to buildings or highway work, including roads, streets, bridge construction and parking lots or steel erection.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Truck driver on all trucks (EXCEPT dump trucks of 8 cubic yards capacity or over, pole trailers, semis, low boys, Euclid, double bottom and fuel trucks)

GROUP 2: Truck driver on dump trucks of 8 cubic yards

capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

* SUMI2002-001 05/01/2002

	Rates	Fringes
FLAG PERSON.....	\$ 10.10 **	0.00
LINE PROTECTOR (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)....	\$ 26.63	14.45
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE).....	\$ 25.03	14.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 35.51	14.45
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 31.96	14.45
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1.....	\$ 33.37	14.45
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2.....	\$ 30.03	14.45

WORK CLASSIFICATIONS:

PAVEMENT MARKER GROUP 1: Drives or operates a truck mounted
striper, grinder, blaster, groover, or thermoplastic melter
for the placement or removal of temporary or permanent

pavement markings or markers.

PAVEMENT MARKER GROUP 2: Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector.

LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the

collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The "SU" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The "SA" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter

d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210.

=====

END OF GENERAL DECISION"

"General Decision Number: MI20250074 09/12/2025

Superseded General Decision Number: MI20240074

State: Michigan

Construction Type: Heavy

County: Washtenaw County in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 14026 generally applies to the contract.. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none">. Executive Order 13658 generally applies to the contract.. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	06/06/2025
2	07/04/2025
3	07/11/2025
4	07/18/2025
5	08/01/2025
6	08/08/2025
7	08/29/2025
8	09/05/2025
9	09/12/2025

CARP0687-006 06/01/2025

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 42.44	31.43

ELEC0252-009 06/01/2025

	Rates	Fringes
ELECTRICIAN.....	\$ 56.05	27.25%+15.25

ENGI0325-019 09/01/2025

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 1.....	\$ 45.98	25.25
GROUP 2.....	\$ 41.25	25.25
GROUP 3.....	\$ 40.52	25.25
GROUP 4.....	\$ 39.95	25.25

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Grader/ Blade, Loader, Roller, Scraper, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor, Bobcat/ Skid Steer /Skid Loader

 ENGI0326-008 06/01/2025

EXCLUDES UNDERGROUND CONSTRUCTION

	Rates	Fringes
OPERATOR: Power Equipment		
GROUP 1.....	\$ 51.29	25.35
GROUP 2.....	\$ 49.79	25.35
GROUP 3.....	\$ 48.29	25.35
GROUP 4.....	\$ 47.99	25.35
GROUP 5.....	\$ 47.17	25.35
GROUP 6.....	\$ 46.31	25.35
GROUP 7.....	\$ 45.34	25.35
GROUP 8.....	\$ 43.63	25.35
GROUP 9.....	\$ 35.29	25.35

FOOTNOTES: Tower cranes: to be paid the crane operator rate determined by the combined length of the mast and the boom.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane with boom & jib or leads 400' or longer

GROUP 2: Crane with boom & jib or leads 300' or longer

GROUP 3: Crane with boom & jib or leads 220' or longer

GROUP 4: Crane with boom & jib or leads 140' or longer

GROUP 5: Crane with boom & jib or leads 120' or longer

GROUP 6: Regular crane operator

GROUP 7: Backhoe/Excavator, Bobcat/Skid Loader, Boring Machine, Broom/Sweeper, Bulldozer, Grader/Blade, Loader,

Roller, Scraper, Tractor, Trencher

GROUP 8: Forklift

GROUP 9: Oiler

IRON0025-006 06/01/2025

	Rates	Fringes
IRONWORKER		
Reinforcing.....	\$ 36.55	33.37
Structural.....	\$ 36.55	35.93

LAB00334-009 06/01/2025

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
Landscape Laborer		
GROUP 1.....	\$ 29.93	9.10
GROUP 2.....	\$ 27.71	9.10

LANDSCAPE LABORER CLASSIFICATIONS

GROUP 1: Landscape specialist, including air, gas and diesel equipment operator, lawn sprinkler installer and skidsteer (or equivalent)

GROUP 2: Landscape laborer: small power tool operator, material mover, truck driver and lawn sprinkler installer tender

LAB00334-018 09/01/2022

SCOPE OF WORK:

OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

	Rates	Fringes
LABORER		
(1) Common or General.....	\$ 25.20	12.95
(2) Mason Tender-		

Cement/Concrete.....	\$ 22.11	12.95
(4) Grade Checker.....	\$ 25.50	12.95
(5) Pipelayer.....	\$ 22.90	12.75
(524.20) Pipelayer.....	\$ 25.65	12.95
(7) Landscape.....	\$ 19.59	12.95

 * LAB00499-020 08/01/2025

EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 38.11	15.45
GROUP 2.....	\$ 38.33	15.45
GROUP 3.....	\$ 38.47	15.45

LABORER CLASSIFICATIONS

GROUP 1: Common or General; Grade Checker

GROUP 2: Mason Tender - Cement/Concrete

GROUP 3: Pipelayer

 PAIN0022-005 07/01/2008

	Rates	Fringes
PAINTER		
Brush & Roller.....	\$ 25.06	14.75
Spray.....	\$ 25.86	14.75

 PLAS0514-002 06/01/2023

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 32.23	22.11

 PLUM0190-010 06/01/2021

	Rates	Fringes
PLUMBER.....	\$ 44.31	23.70

 TEAM0007-006 06/01/2025

	Rates	Fringes
--	-------	---------

TRUCK DRIVER

Dump Truck under 8 cu. yds.; Tractor Haul Truck....	\$ 33.40	.75 + a+b
Dump Truck, 8 cu. yds. and over.....	\$ 33.50	.75 + a+b
Lowboy/Semi-Trailer Truck....	\$ 33.65	.75+ a+b

FOOTNOTE:

- a. \$470.70 per week.
- b. \$68.70 daily.

SUMI2010-072 11/09/2010

	Rates	Fringes
TRUCK DRIVER: Off the Road Truck.....	\$ 20.82	3.69

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this

classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to

davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

=====

END OF GENERAL DECISION"

ADDENDUM No. 1

RFP No. 26-02

E. Huron River Drive Retaining Wall Replacement and Road Reconstruction

Due Date: January 22, 2026 by 11:00 a.m. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes a total of 65 pages.**

The Proposer is to acknowledge **receipt of this Addendum No. 1 by signing and submitting attachment B**, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- **Attachment B - General Declarations**
- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
Replace Schedule of Prices 15 – 17	Quantity updates to reflect plan changes <u>New pay items:</u> <ul style="list-style-type: none">- 01070.00 Sign, Portable, Changeable Message, Furn & Oper- 02060.00 DS_Guardrail, Rem- 08410.00 DS_Guardrail, Type B, 96 inch Post <u>Removed pay items:</u> <ul style="list-style-type: none">- 02060.00 DS_Guardrail, Reconst, Type B- 03052.00 DS_1 inch Min to 4 inch Max Face Stone

- 03081.00 DS_Biaxial Geogrid
- 03082.00 DS_Uniaxial Geogrid
- 03083.00 DS_Geotextile

Quantity change:

- 03051.00 DS_Granular Backfill

Replace Detailed Specifications
(44 pages with 45 pages)

Removed: DS_Guardrail, Reconst, Type B
 Revised: DS_MSE Welded Wire Form Wall
 Added: DS_Remove Guardrail
 DS_Guardrail

Replace Plan Set in its entirety
Sheet 1-15 with Sheet 1-13

Sheet 1: Sheet List Table revised (Sheets 9 and 10 were removed)
 Sheet 4: limits of earth excavation added; guardrail items changed from reconstruct to remove and construct Type B; leveling pad added (incidental to retaining wall); geogrid, face stone and geotextile items removed (now included with retaining wall pay item)
 Sheet 5: guardrail keynote and pay item from reconstruct to remove and quantity increased
 Sheet 6: pay items for geogrid, geotextile and face stone removed (now included with retaining wall pay item); geogrid keynote and notes deleted
 Sheet 7: guardrail keynote and pay item changed from "DS_Guardrail Reconst, Type B" to "DS_Guardrail, Type B, 96 inch Post", quantity increased
 Sheet 8: portable, changeable message boards added
 Sheet 9: remove
 Sheet 10: remove

II. QUESTIONS AND ANSWERS

The following question has been received by the City. The response is being provided in accordance with the terms of the RFP. Bidders are directed to take note of the following questions and City responses in their review of the RFP as they affect work or details in other areas not specifically referenced here.

Question 1: Please provide the Engineers Estimate (for bonding purposes).

Answer 1: The Engineer's Estimate is approximately \$765,000

Question 2: Will inspection be performed by the Owner, or a third party engineering firm? If inspection will be by a third party, which engineering firm will be utilized?

Answer 2: Construction Engineering Services and inspection will be provided by Spalding DeDecker.

Question 3: I assume the Owner will be providing all geotechnical, concrete and HMA testing, correct? If so, which testing company will be utilized for this project?

Answer 3: Testing services will be provided by the testing consultant under contract with the City of Ann Arbor for the 2026 construction season (TBD).

Question 4: I assume all construction layout and surveying will be performed by the Owner, correct?

Answer 4: Construction layout and surveying will be performed by Spalding DeDecker.

Question 5: Is it possible to get a copy of the bid form in MS Excel format?

Answer 5: A MS Excel copy can be provided upon email request to ALoebach@a2gov.org

Question 6: "Embankment" and "Excavation" are to be paid for at PLAN QUANTITY per specification. Contractor / Manufacturer is required to engineer / design a WWF MSE wall based on a specific manufacturer's system AFTER the bid and PRIOR to construction. How will the bidder be able to account for overages / underruns of "Embankment" and "Excavation" if the Contractor / Manufacturer designed system does not correlate to proposed "Excavation" and "Embankment" Limits shown in the current plans?

Answer 6: Earthwork will be paid for per Article 11, subsection J7 of the City of Ann Arbor 2025 Standard Specifications for Construction:

Payment for pay items "Earth Excavation" and Embankment will be per cubic yard. The quantity of earth excavation and embankment was calculated from existing grades. The quantity paid will be plan quantity unless there is a field change which affects the plan quantity. No field measurement for payment of these items will be done at the time of construction.

Question 7: Please review the following four sieve analyses of locally sourced, readily available material that could be used for "DS _ Granular Backfill". Please let me know if one (or more) of these aggregates could be used in lieu of the material specified. This will be far more economical than trying to produce a non-MDOT standard aggregate for this pay item. Also, if the Contractor / Manufacturer designed MSE wall system requires a different gradation than the material specified in the plans, how will that be handled?

Open Graded Options:

2040-MDOT 4G			2006-MDOT 6AA		
Sieve/Test	Average	Unit	Sieve/Test	Average	Unit
1 1/2"	100.0	%	1 1/2"	100.0	%
1"	95.3	%	1"	100.0	%
3/4"	82.1	%	3/4"	86.6	%
1/2"	60.0	%	1/2"	46.0	%
3/8"	49.0	%	3/8"	24.8	%
#4	29.3	%	#4	3.3	%
#8	17.9	%	#8	1.8	%
#16	11.5	%	#16	1.4	%
#30	8.4	%	#30	1.3	%
#50	6.8	%	#50	1.3	%
#100	5.6	%	#100	1.2	%
#200	4.6	%	#200	1.2	%
			Wash Loss (#200/75um)	1.1	%

Dense Graded Options:

2121-MDOT 21AA Limestone			2121-MDOT 21AA Limestone		
Sieve/Test	Average	Unit	Sieve/Test	Average	Unit
1 1/2"	100.0	%	1 1/2"	100.0	%
1"	89.9	%	1"	97.5	%
3/4"	72.0	%	3/4"	85.6	%
1/2"	54.4	%	1/2"	66.3	%
3/8"	47.4	%	3/8"	55.4	%
#4	32.1	%	#4	36.5	%
#8	22.3	%	#8	24.0	%
#16	16.8	%	#16	16.5	%
#30	13.9	%	#30	12.7	%
#50	12.3	%	#50	10.6	%
#100	10.9	%	#100	9.2	%
#200	9.5	%	#200	8.0	%
Wash Loss (#200/75um)	9.0	%	Wash Loss (#200/75um)	7.8	%

Answer 7: The requirements for DS_Granular Backfill are shown in Table 2 of the revised Detailed Specification for MSE Welded Wire Form Wall.

Question 8: The plan sheets 9 and 10 of 15 require generic 18" tall wire facing forms with struts, which does not reflect Hilfiker's proprietary wall system. Based on the above, we have the following questions for this project:

- a. Is a welded wire facing with geogrid soil reinforcements at 18" lifts required, or may Hilfiker provide pricing for their all-steel, inextensible Welded Wire Wall system with 24" lifts instead?
- b. If welded wire facing with geogrid soil reinforcements is required, are the 18" generic wire facing forms and struts that are detailed in the plans mandatory, or may Hilfiker's 24" lift system be proposed as an alternate facing instead?

Answer 8: Plan sheets 9 and 10 were removed from the plan set. Additionally, the Detailed Specification for MSE Welded Wire Form Wall has been revised to allow more wall systems meeting the design requirements.

Question 9: Is there a high-water level to consider For the MSE wire wall?

Answer 9: Please refer to the geotechnical data provided in the project manual and plan sheets for water table data.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

ADDENDUM No. 2

RFP No. 26-02

E. Huron River Drive Retaining Wall Replacement and Road Reconstruction

Due Date: January 22, 2026 by 2:00 p.m. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes a total of 1 page.**

The Proposer is to acknowledge **receipt of this Addendum No. 2 by signing and submitting attachment B**, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- **Attachment B - General Declarations**
- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

CORRECTIONS/ADDITIONS/DELETIONS

Addendum 1 incorrectly stated that bids are due on January 22, 2026 at 11:00 am. **Bids are due at the date and time stated in the RFP: January 22, 2026 by 2:00 p.m. (local time).**

ADDENDUM No. 3

RFP No. 26-02

E. Huron River Drive Retaining Wall Replacement and Road Reconstruction

Due Date: January 22, 2026 by 2:00 p.m. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes a total of 13 pages.**

The Proposer is to acknowledge **receipt of this Addendum No. 3 by signing and submitting attachment B**, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- **Attachment B - General Declarations**
- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)

Change

Replace Detailed Specification for Mechanically Stabilized Earth Welded Wire Form Wall (dated 1/14/26) with Revised Detailed Specification for Mechanically Stabilized Earth Welded Wire Form Wall (dated 1/15/26)

SSL to the list of approved MSE Wall Systems listed in Table 1

ATTACHMENT B
GENERAL DECLARATIONS

City of Ann Arbor
Guy C. Larcom Municipal Building
Ann Arbor, Michigan 48107

Ladies and Gentlemen:

The undersigned, as Bidder, declares that this Bid is made in good faith, without fraud or collusion with any person or persons bidding on the same Contract; that this Bidder has carefully read and examined the bid documents, including City Nondiscrimination requirements and Declaration of Compliance Form, Living Wage requirements and Declaration of Compliance Form, Prevailing Wage requirements and Declaration of Compliance Form, Vendor Conflict of Interest Form, Notice of Pre-Bid Conference, General Information, Bid, Bid Forms, Contract, Bond Forms, General Conditions, Standard Specifications, Detailed Specifications, all Addenda, and the Plans (if applicable) and understands them. The Bidder declares that it conducted a full investigation at the site and of the work proposed and is fully informed as to the nature of the work and the conditions relating to the work's performance. The Bidder also declares that it has extensive experience in successfully completing projects similar to this one.

The Bidder acknowledges that it has not received or relied upon any representations or warrants of any nature whatsoever from the City of Ann Arbor, its agents or employees, and that this Bid is based solely upon the Bidder's own independent business judgment.

The undersigned proposes to perform all work shown on the plans or described in the bid documents, including any addenda issued, and to furnish all necessary machinery, tools, apparatus, and other means of construction to do all the work, furnish all the materials, and complete the work in strict accordance with all terms of the Contract of which this Bid is one part.

In accordance with these bid documents, and Addenda numbered 1-3, the undersigned, as Bidder, proposes to perform at the sites in and/or around Ann Arbor, Michigan, all the work included herein for the amounts set forth in the Bid Forms.

The Bidder declares that it has become fully familiar with the liquidated damage clauses for completion times and for compliance with City Code Chapter 112, understands and agrees that the liquidated damages are for the non-quantifiable aspects of non-compliance and do not cover actual damages that may be shown and agrees that if awarded the Contract, all liquidated damage clauses form part of the Contract.

The Bidder declares that it has become fully familiar with the provisions of Chapter 14, Section 1:320 (Prevailing wages) and Chapter 23 (Living Wage) of the Code of the City of Ann Arbor and that it understands and agrees to comply, to the extent applicable to employees providing services to the City under this Contract, with the wage and reporting requirements stated in the City Code provisions cited. Bidder certifies that the statements contained in the City Prevailing Wage and Living Wage Declaration of Compliance Forms are true and correct. Bidder further agrees that the cited provisions of Chapter 14 and Chapter 23 form a part of this Contract.

The Bidder declares that it has become familiar with the City Conflict of Interest Disclosure Form and certifies that the statement contained therein is true and correct.

The Bidder encloses a certified check or Bid Bond in the amount of 5% of the total of the Bid Price. The Bidder agrees both to contract for the work and to furnish the necessary Bonds and insurance documentation within 10 days after being notified of the acceptance of the Bid.

If this Bid is accepted by the City and the Bidder fails to contract and furnish the required Bonds and insurance documentation within 10 days after being notified of the acceptance of this Bid, then the Bidder shall be considered to have abandoned the Contract and the certified check or Bid Bond accompanying this Bid shall become due and payable to the City.

If the Bidder enters into the Contract in accordance with this Bid, or if this Bid is rejected, then the accompanying check or Bid Bond shall be returned to the Bidder.

In submitting this Bid, it is understood that the right is reserved by the City to accept any Bid, to reject any or all Bids, to waive irregularities and/or informalities in any Bid, and to make the award in any manner the City believes to be in its best interest.

SIGNED THIS 22nd DAY OF January, 2026.

Toebe Construction LLC
Bidder's Name

28990 S. Wixom Road, Wixom, MI 48393
Official Address

248-349-7500
Telephone Number

E-SIGNED by Bradley C. Stover
on 2026-01-22 11:44:02 EST

Authorized Signature of Bidder

Bradley C. Stover
(Print Name of Signer Above)

bstover@toebe.com
Email Address for Award Notice

ATTACHMENT C
LEGAL STATUS OF BIDDER

(The bidder shall fill out the appropriate form and strike out the other three.)

Bidder declares that it is:

* A corporation organized and doing business under the laws of the State of _____, for whom _____, bearing the office title of _____, whose signature is affixed to this Bid, is authorized to execute contracts.

NOTE: If not Incorporated in Michigan, please attach the corporation's Certificate of Authority

• A limited liability company doing business under the laws of the State of Michigan, whom Bradley C. Stover bearing the title of President & Chief Operating Officer whose signature is affixed to this proposal, is authorized to execute contract on behalf of the LLC.

* A partnership, organized under the laws of the state of _____ and filed in the county of _____, whose members are (list all members and the street and mailing address of each) (attach separate sheet if necessary):

* An individual, whose signature with address, is affixed to this Bid: _____ (initial here)

Authorized Official

E-SIGNED by Bradley C. Stover
on 2026-01-22 11:45:01 EST

Date 1/22/2026, 2026

(Print) Name Bradley C. Stover Title President & Chief Operating Officer

Company:

Toebe Construction LLC

Address:

28990 S. Wixom Road, Wixom, MI 48393

Contact Phone (248) 349-7500 Fax (248) 349-4870

Email bstover@toebe.com

ATTACHMENT D
PREVAILING WAGE DECLARATION OF COMPLIANCE

The "wage and employment requirements" of Section 1:320 of Chapter 14 of Title I of the Ann Arbor City Code mandates that the city not enter any contract, understanding or other arrangement for a public improvement for or on behalf of the city unless the contract provides that all craftsmen, mechanics and laborers employed directly on the site in connection with said improvements, including said employees of subcontractors, shall receive the prevailing wage for the corresponding classes of craftsmen, mechanics and laborers, as determined by statistics for the Ann Arbor area compiled by the United States Department of Labor. Where the contract and the Ann Arbor City Code are silent as to definitions of terms required in determining contract compliance with regard to prevailing wages, the definitions provided in the Davis-Bacon Act as amended (40 U.S.C. 278-a to 276-a-7) for the terms shall be used. Further, to the extent that any employees of the contractor providing services under this contract are not part of the class of craftsmen, mechanics and laborers who receive a prevailing wage in conformance with section 1:320 of Chapter 14 of Title I of the Code of the City of Ann Arbor, employees shall be paid a prescribed minimum level of compensation (i.e. Living Wage) for the time those employees perform work on the contract in conformance with section 1:815 of Chapter 23 of Title I of the Code of the City of Ann Arbor.

At the request of the city, any contractor or subcontractor shall provide satisfactory proof of compliance with this provision.

The Contractor agrees:

- (a) To pay each of its employees whose wage level is required to comply with federal, state or local prevailing wage law, for work covered or funded by this contract with the City,
- (b) To require each subcontractor performing work covered or funded by this contract with the City to pay each of its employees the applicable prescribed wage level under the conditions stated in subsection (a) or (b) above.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the wage and employment provisions of the Chapter 14 of the Ann Arbor City Code. The undersigned certifies that he/she has read and is familiar with the terms of Section 1:320 of Chapter 14 of the Ann Arbor City Code and by executing this Declaration of Compliance obligates his/her employer and any subcontractor employed by it to perform work on the contract to the wage and employment requirements stated herein. The undersigned further acknowledges and agrees that if it is found to be in violation of the wage and employment requirements of Section 1:320 of the Chapter 14 of the Ann Arbor City Code it shall have been deemed a material breach of the terms of the contract and grounds for termination of same by the City.

Toebe Construction LLC
Company Name

E-SIGNED by Bradley C. Stover
on 2026-01-22 11:43:17 EST

1/22/2026

Signature of Authorized Representative

Date

Bradley C. Stover, President & Chief Operating Officer

Print Name and Title

28990 S. Wixom Road, Wixom, MI 48393

Address, City, State, Zip

248-349-7500 / bstover@toebe.com

Phone/Email address

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500

ATTACHMENT E
LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here No. of employees __

The Contractor or Grantee agrees:

- (a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$17.08/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$19.04/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce

Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits

Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.
- (e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

Toebe Construction LLC
 Company Name

28990 S. Wixom Road
 Street Address

E-SIGNED by Bradley C. Stover
 on 2028-01-22 11:43:45 EST

 Signature of Authorized Representative Date

Wixom, MI 48393
 City, State, Zip

Bradley C. Stover
 Print Name and Title

248-349-7500 / bstover@toebe.com
 Phone/Email address

Attachment F

CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2025 - ENDING APRIL 29, 2026

\$17.08 per hour

If the employer provides health care benefits*

\$19.04 per hour

If the employer does **NOT** provide health care benefits*

Employers providing services to or for the City of Ann Arbor or recipients of grants or financial assistance from the City of Ann Arbor for a value of more than \$10,000 in a twelve-month period of time must pay those employees performing work on a City of Ann Arbor contract or grant, the above living wage.

ENFORCEMENT

The City of Ann Arbor may recover back wages either administratively or through court action for the employees that have been underpaid in violation of the law. Persons denied payment of the living wage have the right to bring a civil action for damages in addition to any action taken by the City.

Violation of this Ordinance is punishable by fines of not more than \$500/violation plus costs, with each day being considered a separate violation. Additionally, the City of Ann Arbor has the right to modify, terminate, cancel or suspend a contract in the event of a violation of the Ordinance.

* Health Care benefits include those paid for by the employer or making an employer contribution toward the purchase of health care. The employee contribution must not exceed \$.50 an hour for an average work week; and the employer cost or contribution must equal no less than \$1/hr for the average work week.

The Law Requires Employers to Display This Poster Where Employees Can Readily See It.

**For Additional Information or to File a Complaint contact
Colin Spencer at 734/794-6500 or cspencer@a2gov.org**



ATTACHMENT G

Vendor Conflict of Interest Disclosure Form

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
5. Please note any exceptions below:

Conflict of Interest Disclosure*	
Name of City of Ann Arbor employees, elected officials or immediate family members with whom there may be a potential conflict of interest.	<input type="checkbox"/> Relationship to employee <input type="checkbox"/> Interest in vendor's company <input type="checkbox"/> Other (please describe in box below)
None	

*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:		
Toebe Construction LLC	248-349-7500	
Vendor Name	Vendor Phone Number	
E-SIGNED by Bradley C. Stover on 2026-01-22 11:45:27 EST	01/22/26	Bradley C. Stover
Signature of Vendor Authorized Representative	Date	Printed Name of Vendor Authorized Representative

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

ATTACHMENT H

DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

Toebe Construction LLC

Company Name

E-SIGNED by Bradley C. Stover
on 2026-01-22 11:45:50 EST

01/22/26

Signature of Authorized Representative

Date

Bradley C. Stover, President & Chief Operating Officer

Print Name and Title

28990 S. Wixom Road, Wixom, MI 48393

Address, City, State, Zip

248-349-7500 / bstover@toebe.com

Phone/Email Address

Questions about the Notice or the City Administrative Policy, Please contact:
Procurement Office of the City of Ann Arbor
(734) 794-6500

ATTACHMENT I

CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

Discriminatory Employment Practices: No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

Discriminatory Effects: No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter, he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a complaint, first complete the complaint form, which is available at www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

Private Actions For Damages or Injunctive Relief: To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

THIS IS AN OFFICIAL GOVERNMENT NOTICE AND
MUST BE DISPLAYED WHERE EMPLOYEES CAN READILY SEE IT.

MICHIGAN DEPARTMENT OF TRANSPORTATION CERTIFIED PAYROLL

COMPLETION OF CERTIFIED PAYROLL FORM FULFILLS THE MINIMUM MDOT PREVAILING WAGE REQUIREMENTS

(1) NAME OF CONTRACTOR / SUBCONTRACTOR (CIRCLE ONE)		(2) ADDRESS										(3) PAYROLL NO.										(4) FOR WEEK ENDING										(5) PROJECT AND LOCATION										(6) CONTRACT ID									
(a) EMPLOYEE INFORMATION		(b) WORK CLASSIFICATION		(c) Hour Type		(d) DAY AND DATE										(e) TOTAL HOURS ON PROJECT		(f) PROJECT RATE OF PAY		(g) PROJECT RATE OF FRINGE PAY		(h) GROSS PROJECT EARNED		(i) TOTAL WEEKLY HOURS WORKED ALL JOBS		(j) DEDUCTIONS					(k) TOTAL WEEKLY WAGES PAID FOR ALL JOBS																				
NAME:																0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						
ETHGEN: ID #:		GROUPCLASS #:		S												0				\$0.00									\$0.00																						

