ADDENDUM No. 1

RFP No. 23-11

Geddes Avenue and 2190 South State Street Retaining Walls

Due: April 25, 2023 at 10:00 AM (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 forty-three (43) pages.**

The Proposer is to acknowledge receipt of this Addendum No. 1, 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 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 its 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
Page 13 Section III.D	Replace with page Addendum 1-5. Corrected language in Paragraph 1 related to a statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan.
Pages 15-17 Section III.E	Schedule of Pricing/Cost Forms; replace with pages Addendum 1-6 to 8. Changes are as follows:

Pages 15-17 Section III.E (continued)	Replaced pay items 2047010Timber Wall, Rem with 2047011Timber Wall, Rem to reflect pay unit correction; 803100 - Steps, Conc with pay item 8037050 - Steps, Conc, Modified; and 8150547 - Betula nigra, tree form, 2 inch with 8150808 - Cercis canadensis, tree form, 2 inch.
	Remove pay item 2020002 - Tree, Rem, 19 inch to 36 inch.
	Revised estimated quantities for pay items 2020002 – Tree, Rem, 6 inch to 18 inch; 8167011Turf Establishment, Performance; 8087001Fence, Ornamental, Alternate 1; and 8087001Fence, Ornamental, Alternate 2.
Pages DS-9 to DS-10 Detailed Specifications	Detailed Specification for Project Schedule and Payment; replace with pages Addendum 1-9 to 11. Revised sequence of work requirements and overall project completion date. Added calendar day completion and open to traffic requirements for each location.
Pages DS-25 to DS-26 Detailed Specifications	Detailed Specification for Cast in Place Concrete Retaining Wall with Thin Stone Veneer; replace with pages Addendum 1-12 to 13. Revised Materials section and added color and technique requirements related to the grout/mortar for the thin natural stone veneer.
Pages DS-27 to DS-30 Detailed Specifications	Detailed Specification for Modular Block Retaining Wall; replace with pages Addendum 1-14 to 17. Revised Materials section.
Detailed Specifications	Insert Detailed Specification for Steps, Conc, Modified pages Addendum 1-18.
Appendix MDOT Standard Plans/ Special Details	Insert MDOT Standard Plans R-28-J – Curb Ramp and Detectable Warning Details and R-96-E – Soil Erosion & Sedimentation Control Measures pages Addendum-1-19 to 31.
Attachments	Attachment E – City of Ann Arbor Living Wage Ordinance Declaration of Compliance; replace with page Addendum- 1-32. Updated the minimum hourly wage rates.
Attachments	Attachment F – City of Ann Arbor Living Wage Ordinance Poster; replace with page Addendum-1-33. Updated the minimum hourly wage rates.
Plans Sheets 1 to 10	Replace Plan Set in its entirety. Sheet revisions are noted below.
Sheet 1	Revised "Standard Plans" "Sheet Index" tables. Completed signature/seal block.

Sheet 4	Revised call outs on the "Wall Section View" detail. Revised "Wall Section View" and "Wall Reinforcement Section" details to show a flat wall cap. Revised "Sidewalk Construction Notes".
Sheet 5	Revised "Removal Key" and "Construction Key" items and descriptions to be consistent with contract pay items being used as part of the project. Adjusted the grading and temporary construction easement limits on the "Removal Plan View" and the "construction Plan View". Added and revised call outs including quantities related to removal and construction work to reflect revisions to the "Removal Key" and "Construction Key".
Sheet 6	Adjusted the grading and temporary construction easement limits and related call outs.
Sheet 7	Revised "Removal Key" items and descriptions to be consistent with contract pay items being used as part of the project. Adjusted the grading limits. Added and revised call outs including quantities related to removal work to reflect revisions to the "Removal Key". Added notation related to the landmark tree and business signing and lighting on site
Sheet 8	Revised "Construction Key" items and descriptions to be consistent with contract pay items being used as part of the project. Adjusted the grading limits. Added and revised call outs including quantities related to construction work to reflect revisions to the "Construction Key". Added notation related to the landmark tree and business signing and lighting on site
Sheet 9	Adjusted the grading limits.

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

- Question 1: What type of railing is to be used for the concrete steps at the Geddes Avenue location?
- Answer 1: Furnished materials and construction of the stair railings proposed for the project must be in accordance with the Michigan Department of Transportation 2020 Standard Specifications for Construction and match the color of the ornamental fencing proposed for the project.

- Question 2: Is soil boring information available for the 2190 South State location?
- Answer 2: No, soil boring information is not available for that location.
- Question 3: Will the City of Ann Arbor consider approving an alternative modular block type for use on the gravity retaining wall at the 2190 South State Street location should there be one that is a standard stock item or another that is more readily available?
- Answer 3: The City may approve use of an alternative block type for the gravity retaining wall providing it meets the design requirements and contract specifications for the project.
- Question 4: Would the City of Ann Arbor consider revising the completion date for the project and moving it further out to allow more time to perform the work at each location since it requires completion in sequential order?
- Answer 4: The City will consider this request and may also revise the currently specified requirement for the work to be performed sequentially at each location and instead allow it to occur simultaneously. Revisions, if any, to the project schedule and sequencing of work will be addressed as part of an addendum.

Proposers are responsible for any conclusions that they may draw from the information contained in the Addendum.

Bidder must identify a designated qualified safety representative responsible for bidder's safety program who serves as a contact for safety related matters.

- 2. Provide the bidder's Experience Modification Rating ("EMR") for the last three consecutive years. Preference within this criterion will be given to an EMR of 1.0 or less based on a three-year average.
- 3. Evidence that all craft labor that will be employed by the bidder for the project has, or will have prior to project commencement, completed at least an authorized 10-hour OSHA Construction Safety Course.
- 4. For the last three years provide a copy of any documented violations and the bidder's corrective actions as a result of inspections conducted by the Michigan Occupational Safety & Health Administration (MIOSHA), U.S. Department of Labor Occupational Safety and Health Administration (OSHA), or any other applicable safety agency.

C. Workforce Development – 20 Points

- 1. Documentation as to bidder's pay rates, health insurance, pension, or other retirement benefits, paid leave, or other fringe benefits to its employees.
- 2. Documentation that the bidder participates in a Registered Apprenticeship Program that is registered with the United States Department of Labor Office of Apprenticeship or by a State Apprenticeship Agency recognized by the USDOL Office of Apprenticeship. USDOL apprenticeship agreements shall be disclosed to the City in the solicitation response.
- 3. Bidders shall disclose the number of non-craft employees who will work on the project on a 1099 basis, and the bidders shall be awarded points based on their relative reliance on 1099 work arrangements with more points assigned to companies with fewer 1099 arrangements. Bidders will acknowledge that the City may ask them to produce payroll records at points during the project to verify compliance with this section.

D. Social Equity and Sustainability – 20 Points

- 1. A statement from the bidder as to what percentage of its workforce resides in the City of Ann Arbor and in Washtenaw County, Michigan. The City will consider in evaluating which bids best serve its interests, the extent to which responsible and qualified bidders employ individuals in either the city or the county. Washtenaw County jurisdiction is prioritized for evaluation purposes for this solicitation.
- 2. Evidence of Equal Employment Opportunity Programs for minorities, women, veterans, returning citizens, and small businesses.

E. Schedule of Pricing/Cost – 20 Points

Company:_____

Unit Price Bid

			Estimated		
<u>ltem No.</u>	Item Description	<u>Unit</u>	Quantity	Unit Price	Total Price
1047051	_Certified Payroll Compliance and Reporting	LSUM	1.00	\$ 	\$
1047051	_General Conditions, Max \$30,000.00	LSUM	1.00	\$ 	\$
2020004	Tree, Rem, 6 inch to 18 inch	Ea	4.00	\$ 	\$
2040025	Fence, Rem	Ft	142.00	\$ 	\$
2047001	_Exploratory Excavation, Vertical	Ft	10.00	\$ 	\$
2047011	_Rockery Wall, Rem	Syd	8.00	\$ 	\$
2047011	_Rockery Wall, Rem and Salv	Syd	5.00	\$ 	\$
2047011	_Timber Wall, Rem	Syd	275.00	\$ 	\$
2057011	_Sidewalk and Stairway, Any Type and Thickness, Rem	Syd	156.00	\$ 	\$
2057011	_Grading, Curb Ramps	Syd	14.00	\$ 	\$
2057011	_Grading, Sidewalk	Syd	177.00	\$ 	\$
2057021	_Undercutting, Type IIB	Cyd	5.00	\$ 	\$
2087050	_Erosion Control, Inlet Filter	Ea	4.00	\$ 	\$
2090001	Project Cleanup	LSUM	1.00	 	
3010002	Subbase, CIP	Cyd	20.00	\$ 	\$
4030304	Dr Structure, Tap, 4 inch	Ea	1.00	\$ 	\$

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7067010	_Retaining Wall, Modular Block	Sft	275.00	\$	\$\$
7067010	_Retaining Wall, Conc, with Thin Stone Veneer	Sft	640.00	\$	\$
7067010	_Rockery Wall, Install Salv	Sft	41.00	\$	\$
8030020	Railing for Steps	Ft	12.00	\$	\$
8037001	_Detectable Warning Surface, Modified	Ft	12.00	\$	\$
8037010	_Curb Ramp, Conc, 6 inch, Modified	Sft	105.00	\$	\$
8037010	_Sidewalk, Conc, 4 inch, Modified	Sft	1,321.00	\$	\$
8037050	_Step, Conc, Modified	Ea	12.00	\$	\$
8087001	_Fence, Ornamental, Alternate 1	Ft	164.00	\$	\$
8087001	_Fence, Ornamental, Alternate 2	Ft	164.00	\$	\$
8087001	_Fence, Protective, Modified	Ft	65.00	\$	\$
8087050	_Fence Gate, 6 foot, for Alternate 1 Fence	Ea	2.00	\$	\$
8087050	_Fence Gate, 6 foot, for Alternate 2 Fence	Ea	2.00	\$	\$
8120026	Pedestrian Type II Barricade, Temp	Ea	4.00	\$	\$
8120035	Channelizing Device, 42 inch, Fluorescent, Furn	Ea	125.00	\$	\$
8120036	Channelizing Device, 42 inch, Fluorescent, Oper	Ea	125.00	\$	\$
8120140	Lighted Arrow, Type C, Furn	Ea	1.00	\$	\$
8120141	Lighted Arrow, Type C, Oper	Ea	1.00	\$	\$
8120310	Sign Cover	Ea	20.00	\$	\$
				-	

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8120350	Sign, Type B, Temp, Prismatic, Furn	Sft	368.00	\$	\$
8120351	Sign, Type B, Temp, Prismatic, Oper	Sft	368.00	\$	\$
8120370	Traf Regulator Control	LSUM	1.00	\$	\$
8127051	_Minor Traffic Control, Max \$15,000.00	LSUM	1.00	\$	\$
8150808	Cercis canadensis, tree form, 2 inch	Ea	1.00	\$	\$
8152540	Pachysandra terminalis, 2 inch pot	Ea	272.00	\$	\$
8167011	_Turf Establishment, Performance	Syd	359.00	\$	\$
8100403	Sign, Type III, Rem	Ea	1.00	\$	\$
				TOTAL THIS PAGE	\$

TOTAL FROM PAGE ADDENDUM 1-6 \$_____

TOTAL FROM PAGE ADDENDUM 1-7 \$_____

TOTAL BASE BID \$_____

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR PROJECT SCHEDULE AND PAYMENT

SDA:DAD

1 of 3

04/21/23

a. Description.

Examination of Plans, Specifications, and Work Site: Proposer shall carefully examine the Bid Form, plans, specifications, and the work site until it is satisfied as to all local conditions affecting the contract and the detailed requirements of construction. The submission of the bid shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing the work and all requirements of the contract.

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

1. The City expects to furnish the Contractor with two (2) copies of the Contract, for its execution, on or before **May 12, 2023**. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance documentation, to the City within **fifteen (15) working days**. City Council approval to award this contract is expected on **June 5, 2023**.

2. By no later than the **Pre-Construction Meeting** the Contractor shall submit a detailed schedule of work for the Engineer's review and approval. The proposed schedule must fully comply with the scheduling requirements contained in this Detailed Specification. Work shall not start until a schedule is approved in writing by the Engineer. The Contractor shall update the approved work schedule at the request of the Engineer and present it to the Engineer within seven (7) calendar days of said request. It shall also be prepared to present an up-to-date approved work schedule at all progress meetings scheduled for the project.

3. The Contractor shall begin the work of this project on or before **July 5**, **2023**, and only upon approval from the Project Engineer, and in no case without an approved detailed schedule of work, receipt of the fully executed Contract, and Notice to Proceed. Appropriate time extensions shall be granted if the Notice to Proceed is delayed beyond this date.

4. Conduct the work as shown on the plans and as specified in the contract. Perform and complete all work at the Geddes Avenue project location with exception to landscape plantings and turf restoration before mobilizing and working to complete the 2190 S. State Street location. With approval, the Engineer may allow the Contractor's operations to include work at both project locations simultaneously using separate crews if, in its opinion, this appears reasonable to allow for proper and thorough inspection, and the Contractor's work progresses without delay at each location. If approved, should the Contractor fail to meet the above expectations, the Engineer will direct that simultaneous work be discontinued. Should this occur, the Contractor will complete work at the location the has progressed furthest and the remobilize to complete the other. 5. Complete work and open to traffic the Geddes Avenue location within 25 calendar days of commencing work. Complete work and open to traffic the 2190 South State Street location within 22 calendar days of commencing work. Complete work on the entire project on or before the final completion date of **August 23, 2023**. Project completion includes but is not limited to the following: existing concrete sidewalk, ramp, and stair removals; rockery wall removals and salvaging, timber wall removal; cast-in-place and modular block retaining wall construction; stairway construction; rockery wall reinstallation; sidewalk and curb ramp construction; decorative fence installation; landscape plantings; restoration of all disturbed areas; and removal of all temporary traffic control devices.

6. The City of Ann Arbor will impose the following workday, hour and other work restrictions.

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

- Monday through Friday: 7:00 a.m. 8:00 p.m.
- Saturday: 7:00 a.m. 8:00 p.m. with notice given to City of Ann Arbor no less than 48 hours and no more than five (5) days.
- Sunday: only with written approval from the City of Ann Arbor.

No work shall be performed during holiday periods as follows, unless approved by the City of Ann Arbor:

• Independence Day: from 3:00 p.m., Monday, July 3 through 7:00 a.m., Wednesday, July 5

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 intermediate (location specific) and final completion dates. 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.

Failure to complete all work as specified herein within the times specified herein, including time extensions granted thereto as determined by the Engineer, shall entitle the City to deduct from the payments due the Contractor, **\$800.00** in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each and every calendar day beyond the contract completion times/dates required by this Detailed Specification.

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 seasonal limitations, the assessment of Liquidated Damages will discontinue until the work resumes in the following construction season.

b. Measurement and Payment.

If the construction contract is not complete by the specified completion date including any extensions of time granted thereto, at the sole discretion of the City of Ann Arbor it may terminate the Contract. Should this occur, no additional compensation will be 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, payment for contract items with a Lump Sum unit price will be up to a maximum amount equal to the percentage of the contract work that is complete at the time of termination.

No additional compensation will be paid to the Contractor to remobilize at a project location.

Include any/all Contractor costs associated with 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 CAST IN PLACE CONCRETE RETAINING WALL WITH THIN STONE VENEER

SDA:DAD

04/21/23

a Description. This work consists of providing all labor, equipment, and materials to construct a reinforced cast in place (CIP) concrete retaining wall with a natural stone veneer. Perform all work according to the plans and section 706 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, except as modified herein, and as directed by the Engineer.

b. Materials. Provide materials in accordance with subsection 706.02 of the MDOT 2020 Standard Specifications for Construction. Use Grade S2 concrete. Use Grade 60 epoxy coated steel reinforcement.

Furnish a natural stone veneer for the reinforced CIP concrete retaining wall from the following manufacturer or approved equal:

The Quarry Mill 2670 Stone Rd, Sturgeon Bay, WI 54235 (920) 213-7792 <u>www.quarrymill.com</u> Veneer Type: Castle Rock Style "Monroe" Natural Granite Thin Stone Veneer with "Antique White" grout.

Ensure the furnished reinforced CIP concrete retaining wall natural stone veneer and other components are from one manufacturer.

Furnish a wall cap for the top of the reinforced CIP concrete retaining wall from the following manufacturer or approved equal:

Stepstone, Inc. 17025 South Main Street, Gardena, CA 90248 (800) 572-9029 <u>https://www.stepstoneinc.com/products/wall-cap/sonorastone/flat</u> Cap Unit Type: Sonorastone® Flat Wall Cap 3

Ensure the furnished reinforced CIP concrete retaining wall caps and other components are from one manufacturer.

The Engineer must approve the materials and installation methods for the natural stone veneer including the mortar/grout and wall caps prior to construction.

c. Construction Methods. Construct the wall according to the plans, section 706 of the Standard Specifications for Construction and as specified herein. Excavate as required, prepare leveling pad or base, furnish and place drainage system, furnish and place backfill and construct the reinforced CIP concrete retaining wall of varying heights in the location shown on the plans. Examine the site and notify the Engineer of any site conditions that may adversely affect the installation or performance of the wall. Obtain the Engineer's approval before beginning the

installation. Construct the wall according to the Engineer approved shop drawings, manufacturer's recommendations, and the following:

1. Excavate as required for footing. Do not disturb base beyond the lines shown. Overexcavation, not approved by the Engineer, will not be paid for and replacement with compacted fill and/or wall components will be required.

2. Undercut according to this specification, the plans, section 205 of the MDOT 2020 Standard Specifications for Construction and as directed by the engineer.

3. Place aggregate base on undisturbed soils or foundation soils prepared in accordance with section 302 of the MDOT 2020 Standard Specifications for Construction. Compact aggregate base to 95% dry density to provide a level, hard surface on which to place the footing concrete.

4. Install geotextile fabric and drainage as shown on the plans.

5. Outlet the underdrain to a drainage structure as approved by the Engineer.

6. Place geotextile fabric over top of backfill and place restoration items to finished grade.

No additional time or compensation will be granted in securing the Engineer's approval.

Construct grout/mortar joints for the natural stone veneer using a "Grapevine" technique.

d. 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

Retaining Wall, Conc, with Thin Stone Veneer includes all materials, labor, and equipment necessary to complete the work as described in this specification. The Engineer will measure the vertical dimension between from the bottom of the natural stone veneer to the top of the wall cap multiplied by wall length. The Engineer will measure the horizontal dimension along the base of the front of the retaining wall.

The contract unit price for **Retaining Wall, Conc, with Thin Stone Veneer** shall include all earthwork required to complete the wall system as described and shown on the detailed wall plans and as directed by the Engineer. Payment for this item includes excavating, removing, and disposing of unsuitable material, and backfilling and compacting. Furnishing and installing levelling pad, underdrain and geotextile fabric as shown on the plan shall be included in the contract unit price for **Retaining Wall, Modular Block**.

Retaining Wall, Conc, with Thin Stone Veneer includes concrete and steel reinforcement except as specified on the plans.

Retaining Wall, Conc, with Thin Stone Veneer includes the cost of forming, finishing and curing and low temperature protection.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR MODULAR BLOCK RETAINING WALL

SDA:DAD

1 of 4

04/21/23

a Description. This item includes furnishing all materials and labor required for the design and construction of a precast concrete modular block (PMB) gravity retaining wall without geosynthetic reinforcement. Perform work in accordance with the requirements of this specification and in acceptable conformity with the lines, grades, design and dimensions shown in the project plans. This work also includes the preparation and submittal of detailed shop drawings for Owner's approval. Complete this work per section 706 of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction, details shown on the plans, the wall system manufacturer's recommended installation procedures, approved shop drawings, and this detailed specification.

Plan and elevation sheets in the shop drawings shall include, but are not limited to the following information:

1. Elevation view of the wall noting elevations at the top of the wall, at all horizontal and vertical break points, and at least every 25 feet along the face of the wall, all steps in the wall bottom, the length, the original and final ground lines, and applied bearing pressures.

2. Plan view of the wall that indicate the offsets from the construction centerline to the wall reference line at all changes in horizontal alignment and the centerline and size of any drainage structure or drainage pipe behind, passing through, or under the wall.

3. Typical cross sections showing the relationship between existing ground elevations and proposed grades, construction limits, excavations limits, and fill requirements.

4. General notes for constructing the wall.

5. Horizontal and vertical curve data for layout and constructing the wall.

6. Summary of material quantities on the elevation sheet of the wall.

7. Detail sheets for the wall showing the following:

A. Details for placement of modular block facing elements.

B. Details for construction around utilities, drainage structures, and other appurtenances or obstructions.

C. Details that show end treatment at the wall point of beginning (POB) and wall point of ending (POE).

Design calculations shall be provided for each wall height change. Plans and calculations shall be signed and sealed by a Professional Engineer actively licensed in the state of Michigan.

b. Materials. Furnish precast modular block (PBM) gravity retaining wall from the following manufacturer or approved equal:

Keystone Retaining Wall Systems LLC 4444 West 78th Street, Minneapolis, MN 55435 (952) 897-1040 www.keystonewalls.com Block Unit Type: Keystone Standard III Unit 21 Straight Split (Color: Walnut Blend) Cap Unit Type: Single Face Soft Split Unit (Color: Walnut Blend)

Ensure the furnished precast modular block wall (PMB) and all components are from one manufacturer.

The Engineer must approve the installation method, face texture, and color of the block wall system prior to construction.

1. Wall – Provide Straight Split texturing in "Walnut Blend" color as manufactured by Keystone or approved equal. Provide the manufacturer's sample photos of completed 3 completed projects prior to ordering for confirmation by the Engineer. Top blocks shall be flat tops with textured faces on front and back with accessory cap blocks on top. Steps and corner blocks shall also have the exposed ends textured as indicated on the plans.

A. Minimum compressive strength of the blocks must meet manufacturer's recommendation. Blocks must be fabricated with air-entrained concrete.

B. Provide manufacturer's test data certification, according to the MDOT Quality Assurance Procedures Manual, documenting that the blocks meet these specifications when tested as specified in ASTM C 1372. Freeze-thaw data must represent testing completed within the 12 months prior to delivery. Freeze-thaw testing must be conducted in saline solution as specified in ASTM C 1262. Freeze-thaw test results must be reported in 10-cycle intervals.

If project sampling and testing is required, sampling frequency and sample size will be as stated for concrete brick in Section G of the Materials Quality Assurance Procedures Manual.

C. Protect blocks from damage, chipping, and soiling during delivery and storage. Store off the ground, on pallets or wood platforms. Do not use blocks with chips, cracks, voids, discoloration, or other visible defects exceeding the finish and appearance limits in ASTM C 1372.

D. Blocks must conform to the manufacturer's requirements and sizes. Top blocks must be straight top. Corner block widths may be reduced by half. Provide accessory cap blocks with finished sides for all exposed edges.

E. The Contractor shall provide appropriately sized blocks for the wall, given the design parameters and subject to approved shop drawings.

F. Wall Color – The wall shall be standard concrete color.

2. Leveling Pad – Provide a 21AA aggregate leveling pad compacted in place at a

thickness that meets load requirements, or 2,000 psi concrete, per manufacturer's recommendations.

3. Drainage System – Provide underdrain and underdrain bedding per MDOT Specification Section 404 and as recommended by the wall manufacturer.

4. Backfill - Use open graded 6A material for drainage fill and as recommended by the manufacturer.

5. Non-woven geotextile separator – Per MDOT Specification 910 as a separator layer and as recommended by the manufacturer.

c. Construction Methods. Excavate as required, prepare leveling pad or base, furnish and place drainage system, furnish and place backfill and erect a nonreinforced mortarless PMB gravity retaining wall of varying heights in the location shown on the plans. Examine the site and notify the Engineer of any site conditions that may adversely affect the installation or performance of the wall. Obtain the Engineer's approval before beginning the installation. Erect the wall according to the Engineer approved shop drawings, manufacturer's recommendations, and the following:

1. Excavate as required for footing. Do not disturb base beyond the lines shown. Over- excavation, not approved by the Engineer, will not be paid for and replacement with compacted fill and/or wall components will be required.

2. Undercut according to this specification, the plans, section 205 of the Standard Specifications and as directed by the engineer.

3. Place aggregate base on undisturbed soils or foundation soils prepared in accordance with section 302 of the Standard Specifications for Construction. Compact aggregate base to 95% dry density to provide a level, hard surface on which to place the first course of blocks.

4. Place the first course of blocks in full contact with the prepared aggregate or concrete base material. Check each block for level and alignment. Ensure that the top of all blocks in base course are at the same elevation.

5. Place each course of blocks for the full length of wall. Install geotextile fabric and drainage as recommended by the manufacturer.

6. Outlet the underdrain to a drainage structure as approved by the Engineer.

7. Place geotextile fabric over top of backfill and place restoration items to finished grade.

d. 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
Retaining Wall, Modular Block	Square Yard

Retaining Wall, Modular Block includes all materials, labor, and equipment necessary to complete the work as described in this specification. Quantities will be computed based on plan quantities from the bottom of bottom block to top of top block unit multiplied by wall length. The leveling pad will not be paid for separately.

The contract unit price for **Retaining Wall, Modular Block** shall include all earthwork required to complete the wall system as described and shown on the detailed wall plans and as directed by the Engineer. Payment for this item includes excavating, removing, and disposing of unsuitable material, and backfilling and compacting. Furnishing and installing levelling pad, underdrain and geotextile fabric as shown on the plan shall be included in the contract unit price for **Retaining Wall, Modular Block**.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR CONCRETE STEPS

SDA:DAD

04/21/23

a. Description. This work consists of installing precast concrete step units in accordance with section 803 of the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction as shown on the Plans and described herein, and as directed by the Engineer.

b. Materials. Provided materials meeting the requirements specified in applicable subsection 803.02 of the MDOT 2020 Standard Specifications for Construction and as specified herein.

Furnish precast concrete step unit from the following manufacturer or approved equal:

Belgard[®] (877) 235-4273 <u>https://www.belgard.com/products/accessories/landings-step/</u> Step Unit Type: Landings[™] Step

The Contractor shall submit product data sheets and a sample of the step unit to the Engineer for approval prior to ordering materials.

The Engineer must approve the installation method, face texture, and color of step units prior to construction.

c. Construction. Perform this work in accordance with subsection 803.03 of the MDOT 2020 Standard Specifications for Construction and as required herein. The Contractor is responsible for constructing steps in accordance with current ADAAG and PROWAG standards and guidelines and applicable building codes.

Place step units according to manufacturer's specifications.

d. Measurement and Payment. Measure and pay for the completed work, as described, at the contract unit prices using the following pay items:

Pay Item

Pay Unit

Step, Conc, ModifiedEach

Measure **Step, Conc, Modified** individually in place by unit each and pay for it at the contract unit price, which price include the costs for all labor, equipment and materials to complete the work.



Addendum 1-19



Addendum 1-20



Addendum 1-21



Addendum 1-22



Addendum 1-23



Addendum 1-24



DETECTABLE WARNING DETAILS

NOTES:

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION, RECONSTRUCTION, OR ALTERATION OF STREETS, CURBS, OR SIDEWALKS IN THE PUBLIC RIGHT OF WAY.

CURB RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT MARKED AND/OR SIGNALIZED MID-BLOCK CROSSINGS.

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE RUNNING SLOPE.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP. WHERE CONDITIONS PERMIT, IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRAVEL.

RAMP WIDTH SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE SIDEWALK SNOW REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

WHEN 5' MINIMUM WIDTHS ARE NOT PRACTICABLE. RAMP WIDTH MAY BE REDUCED TO NOT LESS THAN 4' AND LANDINGS TO NOT LESS THAN 4' \times 4'.

CURB RAMPS WITH A RUNNING SLOPE ≤5% DO NOT REQUIRE A TOP LANDING. HOWEVER. ANY CONTINUOUS SIDEWALK OR PEDESTRIAN ROUTE CROSSING THROUGH OR INTERSECTING THE CURB RAMP MUST INDEPENDENTLY MAINTAIN A CROSS SLOPE NOT GREATER THAN 2% PERPENDICULAR TO ITS OWN DIRECTION(S) OF TRAVEL.

DETECTABLE WARNING SURFACE COVERAGE IS 24" MINIMUM IN THE DIRECTION OF RAMP/PATH TRAVEL AND THE FULL WIDTH OF THE RAMP/PATH OPENING EXCLUDING CURBED OR FLARED CURB TRANSITION AREAS. A BORDER OFFSET NOT GREATER THAN 2" MEASURED ALONG THE EDGES OF THE DETECTABLE WARNING IS ALLOWABLE. FOR RADIAL CURB THE OFFSET IS MEASURED FROM THE ENDS OF THE RADIUS. FOR NEW ROADWAY CONSTRUCTION, THE RAMP CROSS SLOPE MAY NOT EXCEED 2.0%. FOR ALTERATIONS TO EXISTING ROADWAYS, THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY OVER THE FULL LENGTH OF THE RAMP.

THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0%) REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIES OF RAMPS TO EXCEED 15 FEET IN LENGTH NOT INCLUDING LANDINGS OR TRANSITIONS.

DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS. THE LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER THE LOCATION OF THE DRAINAGE STRUCTURE. WHERE EXISTING DRAINAGE STRUCTURES ARE LOCATED IN THE RAMP PATH OF TRAVEL. USE A MANUFACTUREN'S ADA COMPLIANT GRATE. OPENINGS SHALL NOT BE GREATER THAN 't2". ELONGATED DPENINGS SHALL BE PLACED SD THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL DN UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED ALDNG THE ROADSIDE CURB LINE, SHALL BE PROVIDED WHERE AN UNOBSTRUCTED CIRCULATION PATH LATERALLY CROSSES THE CURB RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE RAMP IS BORDERED BY LANDSCAPING, UNPAYED SURFACE OR PERMANENT FIXED DBJECTS. WHERE THEY ARE NOT REQUIRED, FLARED SIDES CAN BE CONSIDERED IN ORDER TO AVOID SHARP CURB RETURNS AT RAMP OPENINGS.

DETECTABLE WARNING PLATES MUST BE INSTALLED USING FABRICATED OR FIELD CUT UNITS CAST AND/OR ANCHORED IN THE PAVEMENT TO RESIST SHIFTING OR HEAVING.

IUS.				
	MICHIGAN	DEPARTMENT	OF TRANSPORTAT	rion -
	C DETECTA	CURB RAN BLE WAN	MP AND RNING DE'	TAILS
	4-7-2022	5-8-2020	R-28-J	SHEET

	• APPLICABLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES (COMPREHENSIVE DETAILS ARE LOCATED IN SECTION 6 OF THE SOIL EROSION & SEDIMENTATION CONTROL MANUAL)												
	$\mathbf{A} = \mathbf{SLOPES}$												
		$\mathbf{B}_{\mathbf{s}} = \mathbf{STR}_{\mathbf{s}}$	EAMS AND WATERWAY	(S									
		C = SUR	FACE DRAINAGEWAYS										
		D = ENC	LOSED DRAINAGE (IN)	LET & OUTFAL	L CONTROL)								
		$\mathbf{E} = \mathbf{LAR}$	GE FLAT SURFACE A	REAS									
		F = BOR	ROW AND STOCKPILE	AREAS									
		G = DNR	E PERMIT MAY BE R	EQUIRED									
KEY		DETAIL	СН	ARACTERISTICS			A	в	с	D	E	F	G
1	A Turbidity Curtain is used when slack water area is necessary to isolate construction activities from the watercourse. The still water area contains the sediments within the construction limits.						•						
	TUR												
2	Retains existing root mat which assists in stabilizing slopes. Assists in the revegetation process by providing sprout growth. Reduces sheet flow velocities preventing rilling and gullying. Discourages off-road vehicle use.						•				•		
	GRU	IBBING OMITTED											
3	3 Inexpensive but effective flat areas and mild slop Permits runoff to infiltra Proper preparation of the watering is critical to its			sion control measure , reducing runoff volu d bed, fertilizing, mul ass.	to stabilize mes. ching and		•		•		•	•	
4	00-0		Dust control can be accompli calcium chloride. The disturbed areas should b PERMANENT/TEMPORARY as soon as possible.	shed by watering, an e kept to a minimum. SEEDING (KEY 3) s	d/or applying hould be applied		•				•	•	
5	dariya hariya hariya	SST CONTROL	Provides immediate vegetative ditch bottoms. Proper preparation of the tope watering is critical to its succes	ve cover such as at sp soil, placement of the ess.	billways and sod, and		•				•	•	
6	WHI Common State	and the second differ of the second difference	Reduces sheet flow velocities Assists in the collection of sec Assists in the establishment of	s preventing rilling and diments by filtering ru of a permanent veget	d gullying. noff. ative cover.		•				•		
	VEGETA	TED BUFFER STRIPS		01									
PR	EPARED BY N DIVISION	DEPARTME Kirk T John APPROVED BY:	NT DIRECTOR Steudle M. C. Friend GINEER OF DELLYERY	MICHIGAN BUREAU C SOIL ERC CO	DEPARTMENT F HIGHWAY DEVELOPM SION & NTROL M	OF T MENT ST SEI		NSF DARD MI				10	N
DRAWN BY: B.L.T. CHECKED BY: W.K.P.			a Van Fait few INEER OF DEVELOPMENT	9-10-2010 F.H.W.A. APPROVAL	6-3-2010	R	2-9	96	- E	C	s 1	HEE	т 6

Addendum 1-26

KEY	DETAIL	CHARACTERISTICS	A	в	с	D	Е	F	G
7	RIPRAP	Used where vegetation cannot be established. Very effective in protecting against high velocity flows. Should be placed over a geotextile liner.	•	•	•	•			•
8	AGGREGATE COVER	Can be used in any area where a stable condition is needed for construction operations, equipment storage or in heavy traffic areas. Reduces potential soil erosion and fugitive dust by stabilizing raw areas.	•				•	•	
9	BENCHES	Reduces sheet flow velocities preventing rilling and gullying. Assists in the collection and filtering of sediments. Provides access for stabilizing slopes.	•					•	
10	DIVERSION DIKE	Assists in the diversion of runoff to a stable outlet or sediment control device. Reduces sheet flow velocities preventing rilling and gullying. Collects and diverts runoff to properly stabilized drainage ways. Works well with INTERCEPTING DITCH (KEY 11)	•					•	
11	INTERCEPTING DITCH	Assists in the diversion of runoff to a stable outlet or sediment control device. Reduces sheet flow velocities preventing rilling and gullying. Works well with DIVERSION DIKE (KEY 10)	•				•	•	
12	INTERCEPTING DITCH AND DIVERSION DIKE	Assists in the diversion of runoff to a stable outlet or sediment control device. Reduces sheet flow velocities preventing rilling and gullying.	•				•	•	
13	GRAVEL FILTER BERM	Useful in filtering flow prior to its reentry into a lake, stream or wetland. Works well with SEDIMENT TRAP (KEY 20) and TEMPORARY BYPASS CHANNEL (KEY 35). Not to be used in lieu of a CHECK DAM (KEY 37) in a ditch.	•		•			•	
14	GRAVEL ACCESS APPROACH	Provides a stable access to roadways minimizing fugitive dust and tracking of materials onto public streets and highways.					•	•	
ŝ	I	MICHIGAN DEPARTMENT OF BUREAU OF HIGHWAY DEVELOPMENT SOIL EROSION & SE CONTROL ME		ANS IDARI [M U]				N N	- DN
<u>9-10-2010</u> <u>6-3-2010</u> R-96-E									ET F 6

Addendum 1-27

KEY	DETAIL	CHARACTERISTICS	A	в	с	D	E	F	G
15	SLOPE DRAIN SURFACE	Excellent device for carrying water down slopes without creating an erosive condition. Generally used in conjunction with DIVERSION DIKE (KEY 10), INTERCEPTING DITCH (KEY 11) and INTERCEPTING DITCH AND DIVERSION DIKE (KEY 12) to direct flow to a stable discharge area or SEDIMENT TRAP (KEY 20).	•		•				
16	TREES, SHRUBS AND PERENNIALS	Trees, shrubs and perennials can provide low maintenance long term erosion protection. These plants may be particularly useful where site aesthetics are important along the roadside slopes.	•				•		
17		Effective way to allow water to drop in elevation very rapidly without causing an erosive condition. Also works as a sediment collector device. May be left in place as a permanent erosion control device.	•		•				
18		It may be necessary to dewater from behind a cofferdam or construction dam to create a dry work site. Discharged water must be pumped to a filter bag. A GRAVEL FILTER BERM (KEY 13) may be placed downslope of the filter bag to provide additional filtration prior to entering any stream or wetland.		•					•
19	ENERGY DISSIPATORS	A device to prevent the erosive force of water from eroding soils. Used at outlets of culverts, drainage pipes or other conduits to reduce the velocity of the water. Prevents structure scouring and undermining.	•	•	•	•			
20		Used to intercept concentrated flows and prevent sediments from being transported off site or into a watercourse or wetland. The size of a Sediment Trap is 5 cubic yards or less. Works well when used with CHECK DAM (KEY 37).	•		•	•			
21	SEDIMENT BASIN	A Sediment Basin is used to trap sediments from an upstream construction site. Requires periodic inspections, repairs, and maintenance. Where practical, sediments should be contained on site. A Sediment Basin should be the last choice of sediment control. The size of a Sediment Basin is greater than 5 cubic yards.		0					•
22	VEGETATIVE BUFFER AT WATERCOURSE	This practice is used to maintain a vegetative buffer adjacent to a watercourse. When utilized with SILT FENCE (KEY 26) it will, under normal circumstances, prevent sediment from leaving the construction site.	•	•	•		•	•	
		MICHIGAN DEPARTMENT OF BUREAU OF HIGHWAY DEVELOPMENT			POF		FION DR	1	
		SOIL EROSION & SE CONTROL MEA	DI	M I U F	EN Re:	Тл S	ΑT	10	N
	9-10-2010 E.H.W.A. APPROVAL							HEE	т 6

KEY	DETAIL	CHAR	RACTERISTICS		A	в	с	D	E	F	G
23	STREAM RELOCATION	A detail depicting the proper procedures for stream relocation. Maintains same width, depth, and flow velocity as the natural stream. Revegetate banks with PERMANENT/TEMPORARY SEEDING (KEY 3), MULCHING AND MULCH ANCHORING (KEY 28), MULCH BLANKETS AND HIGH VELOCITY MULCH BLANKETS (KEY 33) and woody plants to shade the stream.									•
24		Sand and stone bags are a use Can be used to divert water arc a DIVERSION DIKE (KEY 10). Works well for creating a CONS temporary culvert end fill.	Sand and stone bags are a useful tool in the prevention of erosion. Can be used to divert water around a construction site by creating a DIVERSION DIKE (KEY 10). Works well for creating a CONSTRUCTION DAM (KEY 36) and temporary culvert end fill.						•	•	•
	SAND AND STONE BAGS										
25		A Sand Fence traps blowing sa Can be used to prevent sand fr Must be maintained until sand :	A Sand Fence traps blowing sand by reducing wind velocities. Can be used to prevent sand from blowing onto roads. Must be maintained until sand source is stabilized.						•	•	
	DUNE STABILIZATION										
26	SILT FENCE	A permeable barrier erected be sediments from sheet flow. Can be used to divert small vol Ineffective as a filter and should or ditches where flow is concer	A permeable barrier erected below disturbed areas to capture sediments from sheet flow. Can be used to divert small volumes of water to stable outlets. Ineffective as a filter and should never be placed across streams or ditches where flow is concentrated.							•	
27	PLASTIC SHEETS OR	Plastic Sheets can be used to Can also be used to create a te of stockpiled materials.	Plastic Sheets can be used to create a liner in temporary channels. Can also be used to create a temporary cover to prevent erosion of stockpiled materials.							•	
	GEOTEXTILE COVER				-		-	-		-	
28	MULCHING AND MULCH ANCHORING	Anchored mulch provides eros Mulch must be used on seeder and growth. Should be inspected after ever until vegetation is well establisi	ion protection again d areas to promote v ry rainstorm and rep hed.	st rain and wind. water retention aired as necessary	•		•		•	•	
29		Provides settling and filtering of into the drainage system. Can be used in median and sid disturbed. Allows for early use of drainag	Provides settling and filtering of silt laden water prior to its entry into the drainage system. Can be used in median and side ditches where vegetation will be disturbed. Allows for early use of drainage systems prior to project completion.						•		
30	INLET PROTECTION GEOTEXTILE AND STONE	Provides settling and filtering of into the drainage system. Should be used in paved areas existing or proposed. Allows for early use of drainag	Provides settling and filtering of silt laden water prior to its entry into the drainage system. Should be used in paved areas where drainage structures are existing or proposed. Allows for early use of drainage systems prior to project completion.						•		
			MICHIGAN	DEPARTMENT	OF TF		SPO	RT/	TIC	-N	_
	BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR SOIL EROSION & SEDIMENTATIO CONTROL MEASURES							NC			
			$\frac{9-10-2010}{F.H.W.A.}$ APPROVAL $\frac{6-3-2010}{PLAN DATE}$ R-96-E							SHE 4 O	ET F 6

Addendum 1-29

KEY	DETAIL	CHARACTERISTICS		в	С	D	E	F	G
31		An Inlet Protection Sediment Trap is a temporary device that can be used in areas where medium flows are anticipated. Effective in trapping small quantities of sediments prior to water entering the drainage system. Can be used in areas such as median and side ditches.			•		•		
	INLET PROTECTION SEDIMENT TRAP								
32		A simple and economical way to reduce soil erosion by wind and water. Can be accomplished by harrowing with a disk, back blading, or tracking with a dozer perpendicular to the slope.					•	•	
	SLOPE ROUGHENING AND SCARIFICATION								
33	MULCH BLANKETS AND HIGH VELOCITY MULCH BLANKETS	Mulch blankets provide an immediate and effective cover over raw erodible slopes affording excellent protection against rain and wind erosion. High velocity mulch blankets work well for stabilizing the bottom of ditches in waterways.			•			•	
34	COFFERDAM	Used to create a dry construction area and protect the stream from raw erodible areas. Must be pumped dry or dewatered according to DEWATERING WITH FILTER BAG (KEY 18).							•
35	TEMPORARY BYPASS CHANNEL	Utilized when a dry construction area is needed. Isolates stream flows from raw erodible areas minimizing erosion and subsequent siltation. Can incorporate SEDIMENT BASIN (KEY 21), CHECK DAM (KEY 37), and GRAVEL FILTER BERM (KEY 13) to remove sediments from water. Construction sequence of events may be necessary.		•					•
36	CONSTRUCTION DAM	Used to create a dry or slack water area for construction. Isolates the stream from raw erodible areas. Can be created out of any non-erodible materials such as SAND AND STONE BAGS (KEY 24), a gravel dike with clay core or plastic liner, steel plates or plywood.							•
37	CHECK DAM	Can be constructed across ditches or any area of concentrated flow. Protects vegetation in early stages of growth. A Check Dam is intended to reduce water velocities and capture sediment. A Check Dam is not a filtering device.			•				
		MICHIGAN DEPARTMENT OF BUREAU OF HIGHWAY DEVELOPMENT SOIL EROSION & SE CONTROL MEA 9-10-2010 6-3-2010 1		NSI DARD MI UF		TA T T S		I O	• N

Addendum	1-31

ESTABLISHMENT OR AT TI DURING REMOVAL TO MIN	HE DISCRETION OF THE	E ENGINEER. CARE SHALL HEARBY DRAINAGE COURSES	BE TAKEN
MICHIGAN BUREAU OF		OF TRANSPORTAT	ION 7
SOIL ERO CO	SION & S NTROL M	SEDIMENTA EASURES	TION
9-10-2010	6-3-2010	R-96-E	SHEET 6 OF 6

ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AFTER VEGETATION

TEMPORARY EROSION AND SEDIMENTATION CONTROL PROVISIONS SHALL BE COORDINATED WITH THE PERMANENT CONTROL MEASURES TO ASSURE EFFECTIVE CONTROL OF SEDIMENTS DURING CONSTRUCTION OF THE PROJECT.

COLLECTED SILT AND SEDIMENT SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE EFFECTIVENESS OF THE SEDIMENT TRAP. SEDIMENT BASIN. AND SILT FENCE. AGGREGATES PLACED IN STREAMS SHOULD CONTAIN A MINIMUM OF FINES.

THIS STANDARD PLAN WILL SERVE AS A KEY IN THE SELECTION OF THE APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL DETAILS. THIS PLAN ALSO PROVIDES THE KEY TO THE NUMBERED EROSION CONTROL ITEMS SPECIFIED ON THE CONSTRUCTION PLANS. REFER TO THE MODT SOIL EROSION & SEDIMENTATION CONTROL MANUAL. SECTION 6 FOR SPECIFIC DETAILS, CONTRACT ITEMS (PAY ITEMS), AND PAY UNITS.

NOTES:

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 twelvemonth 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 \$15.90/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 \$17.73/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.

Company Name		Street Address	
Signature of Authorized Representative	Date	City, State, Zip	
Print Name and Title		Phone/Email address	
City of Ann Arbor Procurement Office, 734/794-6500, pro	curement	@a2gov.org	Rev. 3/7/23

CITY OF ANN ARBOR LIVING WAGE ORDINANCE

RATE EFFECTIVE APRIL 30, 2023 - ENDING APRIL 29, 2024





If the employer provides health care benefits*

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

Revised 2/1/2023



CITY OF ANN ARBOR ENGINEERING **GEDDES AVENUE AND 2190 STATE STREET RETAINING WALLS**

STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLANS GIVEN BELOW. ROAD STANDARD PLANS

R-28-J	CURB RAMP AND DETECTABLE WARNING DETAILS
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
R-100-I	SEEDING AND TREE PLANTING *
TRAFFIC AND S	AFETY STANDARD PLANS

WZD-100-A GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS WZD-125-E TEMPORARY TRAFFIC CONTROL DEVICES *

* = SPECIAL DETAILS LOCATED IN THE PROPOSAL



RFP NO. 23-11, FILE NOS. 2022-009 & 2023-003



VICINITY MAP

NOTES

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WIT PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG' ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THI THE 2020 EDITION OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, ITS DETAILS, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

IEET INDEX				-
HEET NUMBER	SHEET TITLE		œ	47 T
	COVER SHEET STANDARD NOTES LEGEND RETAINING WALL DETAILS - GEDDES AVENUE REMOVAL & CONSTRUCTION PLAN - GEDDES AVENUE DETAILED GRADING PLAN - GEDDES AVENUE REMOVAL PLAN - STATE STREET CONSTRUCTION PLAN - STATE STREET DETAILED GRADING PLAN - STATE STREET DETAILED GRADING PLAN - STATE STREET		OF ANN CITY OF ANN ARBO	DUBLIC SERVICES 301 EAST HURON STREE P.O. BOX 8647 ANN ARBOR, MI 48107-86 734-794-6410 www.a2gov.org
			R - PUBLIC SERVICES - ENGINEERING	COVER SHEET
	PREPARED UNDER THE SUPERVISION OF David Arthur Dykman Conse Na Conse Na	3	CITY OF ANN ARBOI	SCALE : NTS DRAWING No.
	PROJECT MANAGER			1 OF 10

2-009 & 2023 202 23-1 AVENUE RETAINING WALL; BID No. RFP NO. G

CONSTRUCTION NOTES:

- Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
- 2. The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
- 3. Location and depth of utilities as depicted on the plans is approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
- 4. The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
- 5. During non-working hours no more than ten (10) feet of trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
- 6. Water main appurtenances, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.
- 7. "No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
- 8. Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
- 9. All fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Public Works Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
- 10. Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
- 11. The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
- 12. All curb, sidewalk and driveway approach removals shall be approved by Engineer before the work is done.
- 13. The location of material stock piles and on-site staging areas to be approved by the Engineer. Soil erosion requirements shall apply to all staging areas.
- 14. For mainline HMA paving, the width of the mat for each pass of the paver shall be not less than 10.5' nor greater than 16', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
- 15. All excavations required to construct sidewalk and sidewalk ramps shall be included in the contract pay item, "Grading, Sidewalk and Sidewalk Ramps."
- 16. Place 4 inches (minimum) thickness Granular Material Class II compacted to 95% of its own max. dry density under concrete sidewalk as shown on the details. This work shall be included in the contract item "Subbase, CIP."

- 17. Place 6 inches (minimum) Granular Material Class II compacted to 95% of its max. dry density under concrete driveway approaches, and 6 inches (minimum) dense-graded aggregate 21AA compacted to 98% of its max. dry density under HMA driveway approaches. This work shall be included in the respective contract pay items "Subbase, CIP" and "Aggregate Base, 6 inch, Modified."
- 18. A uniform coat(s) of curing compound shall be applied to new pavement according to the Standard Specifications and Special Provisions. The Contractor shall take care to prevent overspray when applying the compound. Application methods may vary depending on site specific conditions, but all methods used to prevent overspray of the curing compound shall be completely effective. Methods used shall be approved by the Engineer prior to use, however approval of a method does not guarantee success or acceptibility. This work shall not be paid for separately, but shall be included in the contract pay items for HMA pavement.
- 19. The Contractor shall remove and stockpile on site at a location mutually agreed upon by the Contractor and Engineer any/ all existing City owned structure covers designated for salvage, and within two days of their removal deliver them to the W.R. Wheeler Service Center (4251 Stone School Rd, Ann Arbor, MI). Any structure covers not designated for salvage shall become the property of the Contractor and disposed of, as required, by the Contractor.
- 20. Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
- 21. Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. All costs associated with the installation of these devices shall be included in the payment for the sewer.
- 22. Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using the Trench Details detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
- 23. Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "Machine Grading, Modified"
- 24. In areas where edge drain cannot be installed in accordance with City of Ann Arbor Detail SD-TD-11, the edge drain shall be installed at the depth as indicated on the plans, or as directed by Engineer. In no case shall the edge drain be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.
- 25. When not under construction, the Contractor is to maintain crosswalk ramp access within the project influence with maintenance aggregate and horse mats to reduce tripping hazards at the ramp opening. This work shall be paid for as "Maintenance Gravel" and the horse mats shall be included in "General Conditions, Max ___" and not be paid for separately.

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S REQUIRED TO BE OBTAINED BY THE CONTRACTOR TO THE BEGINNING OF CONSTRUCTION.					
PERMIT	ISSUING AUTHORITY				
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DIL EROSION & SEDIMENTATION ERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE				
WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE				
* NO COST TO	CONTRACTOR				
S REQUIRED TO BE OBTAINED BY THE CITY OF ANN PRIOR TO THE BEGINNING OF CONSTRUCTION.					

PERMIT	ISSUING AUTHORITY
	N/A

CT INFORMATION LIC UTILITIES OWNER CONTACT VICTOR CONTACT CONTACT CITY OF ANN ARBOR PUBLIC WORKS (734) 794–6350 VICTOR VICTOR CONTACT VICTOR CITY OF ANN ARBOR PUBLIC WORKS (734) 794–6350)
LIC UTILITIES OWNER CONTACT)
CITY OF ANN ARBOR PUBLIC WORKS W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	
HTS (734) 794–6361	
ATE UTILITIES OWNER CONTACT	
DTE ENERGY 3150 E. MICHIGAN AVE, YPSILANTI TOWNSHIP, MI 48198 (734) 544–7818	/SKI
DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	AK '
COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034 RON SUTHERLAN (313) 999–8300	D
AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103 STEVEN ALLSHOU (734) 996–5334	JSE
MCI 2800 N. GLENFILLE ROAD RICHARDSON, TX 75082 DEAN BOYERS (972) 729–6016	
CS WINDSTREAM 1295 S LINDEN ROAD, SUITE B FLINT, MI 48532 GREG SERICH (810) 244–3500	I
HTING DTE ENERGY 8001 HAGGERTY ROAD BELLEVILLE, MI 48111 (734) 397–4188	

PROJECT NAME BENCHMARKS

SCRIPTION

BENCH TIE S SIDE PP N SIDE OF GEDDES AVE 15'± E OF HARVARD PL

F BENCH TIE N SIDE PP S SIDE OF GEDDES AVE 20'± W OF HIGHLAND RD

ROW ON HYDRANT, LOCATED ON THE SOUTHWEST CORNER OF S. STATE STREET D PARKCREST AVENUE.



EX	ISTING LEGEND			PR
 ‡+	FIRE HYDRANT	<i>W</i>	WATER MAIN	+ +
I	GATE VALVE IN BOX	/ -/ -/ _// -/ -/	WATER MAIN ABANDONED	8
8	GATE VALVE IN WELL	<u></u>	STORM SEWER	•
•	STOP BOX	///	STORM SEWER ABANDONED	I
*	WATER VAULT	<i>S</i>	SANITARY SEWER	
Ø	WELL	///	SANITARY SEWER ABANDONED	W
	CATCH BASIN (SQ)	g	GAS MAIN	0
	CATCH BASIN (RD)		GAS MAIN (DEAD)	
0	STORM MANHOLE		ELECTRICAL OVER HEAD	0
	NON-CURB CATCH BASIN (SQ)		ELECTRICAL UNDER GROUND	
)	END SECTION	e duct bank	ELECTRICAL DUCT BANK	0
0	SANITARY MANHOLE		TELEPHONE OVER HEAD	
0	CLEAN-OUT		TELEPHONE UNDER GROUND	
•	POST	t duct bank	TELEDHONE DUCT BANK	igodot
\$	PEDESTRIAN SIGNAL		TELEPHONE DOCT BANK	
þ	SIGN	— ohtv —	CABLE TV OVER HEAD	•
	HAND HOLE	— tv —	CABLE TV UNDER GROUND	÷
¢	ORNAMENTAL LIGHT	fo	FIBER OPTIC	
ᄊ	FLOOD LIGHT		FIBER OPTIC DUCT BANK	
?	UNKNOWN MANHOLE		BOUNDARY	
Ø	TELEPHONE MANHOLE		BUILDING	
\bowtie	TELEPHONE RISER		CENTERLINE OF DITCH	
9	GAS VALVE		CENTERLINE/CROWN OF ROAD	
0	GAS VENT	— — — —	CONTOUR MAJOR	
⊞	GAS BOX	799	CONTOUR MINOR	
Ž	ELECTRICAL RISER		EDGE OF WATER	
\boxtimes	TRANSFORMER		FLOODPLAIN	
Ø	UTILITY POLE	////	FENCE	
0	LAMP POLE	:·:·:·	GRAVEL	
>	GUY ANCHOR		GUARDRAIL	
φ	GUY POLE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	STONE WALL	
())	MONITORING WELL		R.O.W.	
N/N	MAILBOX		TREELINE	
•	SOIL BORING		WETLAND	
\land	TRAVERSE POINT		EDGE OF BRUSH	
+	BENCH MARK			
0	IRON PIPE		HEDGE	
•	MON BOX			

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TREE (CONIFEROUS)

TREE (DECIDUOUS)

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M

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SHRUB (DECIDUOUS)

STUMP

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TREE TO REMAIN & PROTECT (DECIDUOUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10



TREE TO REMAIN & PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREAST HEIGHT (INCHES) X 10

ROPOSED LEGEND WATER MAIN HYDRANT (PLAN) _____ R _____ STORM SEWER WATER GATE WELL ______S _____ SANITARY SEWER REDUCER FIBER OPTIC WATER GATE VALVE WATER STOP BOX ELECTRICAL WATER VAULT CENTERLINE OF DITCH INLET CENTERLINE OF ROAD DOUBLE INLET -----:- GRAVEL INLET JUNCTION CHAMBER _____ SILT FENCE ROUND CATCH BASIN STORM MANHOLE PROTECTIVE FENCE DRAIN ARROW GUARDRAIL LOT/UNIT FLARED END SECTION SANITARY MANHOLE CURB CLEAN-OUT ----- ---- TEMPORARY GRADING PERMIT BARREL SIGN PUSH BUTTON ----- WATER EASMENT ----- STORM EASEMENT HAND HOLE ---- --- SANITARY EASEMENT ______ R.O.W. LIMITS OF CONSTRUCTION · · · · · · · · · · · STONE WALL DETECTABLE WARNING ASPHALT CONCRETE ~ SIDEWALK TREE (DECIDUOUS) • My TREE (CONIFEROUS) TREE TO BE REMOVED (DECIDUOUS) CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING SCALE : NTS CALE : NTS CEDDES AVENUE RETAINING RETAINING WALL PLANS TREE TO BE REMOVED (CONIFEROUS) LEGEND STUMP TO BE REMOVED

3 OF 10

SHEET No.



SIDEWALK CONSTRUCTION NOTES:

- 2. CITY OF ANN ARBOR MINIMUM STANDARD WIDTH OF SIDEWALK IS FIVE (5) FEET.
- 3. CONCRETE SIDEWALK THICKNESS SHALL BE A MINIMUM OF FOUR (4) INCHES.
- INCHES.
- SUBGRADE TO 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY.
- THE REQUIREMENTS OF MDOT DETAIL R-28-J (LATEST VERSION).
- 7. SIDEWALKS MAY MEANDER WITHIN THE RIGHT-OF-WAY TO PROTECT AND PRESERVE NATURAL FEATURES.
- 8. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER CITY OF ANN ARBOR STANDARD DETAILS AND SPECIFICATIONS.

1. SIDEWALK SHALL BE A DESIGNED AND CONSTRUCTED TO MEET ALL ADA STANDARDS AND REQUIREMENTS.

4. SUBBASE BEDDING (GRANULAR MATERIAL CL II) THICKNESS FOR SIDEWALK SHALL BE A MINIMUM OF FOUR (4)

5. IF EXISTING SUBGRADE MATERIAL IS APPROVED BY THE ENGINEER FOR USE, COMPACT THE EXISTING

6. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT STREET INTERSECTIONS AS DIRECTED AND SHALL COMPLY WITH



WALL SECTIONS		
HEIGHT (SECTION)	DIMENSION "A"	DIMENSION "B"
SHORT (A-A)	1'-3"	4'-0''
MEDIUM (B-B)	2'-0''	4'-9''
TALL (C-C)	2'-9''	5'-6''
TALL (C-C) SEE SECTION ON SHEET 6	2'-9"	





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	REMOVAL KEY				
KEY	DESCRIPTION				
1	REMOVE CONCRETE CURB OR CURB & GUTTER, ANY TYPE				
2	REMOVE CONCRETE SIDEWALK AND PAVEMENT – ANY THICKNESS				
3	INLET FILTER				
4	REMOVE & SALVAGE ROCKERY WALL				
5	TREE, REM, 6" TO 18"				
6	REMOVE ROCKERY WALL				
7	REMOVE SIGN				
8	REMOVE CONCRETE WALL				

* WORK TO BE COMPLETED BY OTH AS PART OF ROAD WORK CONTR

CONSTRUCTION KEY			
KEY DESCRIPTION			
CG	CONCRETE CURB OR CURB & GUTTER, ALL TYPES		
SW4	4 INCH CONCRETE SIDEWALK		
SWR6	6 INCH CONCRETE RAMP, DRIVE APPROACH		
ISRW	INSTALL SALVAGED ROCKERY WALL		
DWS	DETECTABLE WARNING SURFACE, CAST IN PLACE		
OF	ORNAMENTAL FENCE		
RCRW	REINF CONCRETE RETAINING WALL		
STP	STEPS, CONCRETE		
TS	TRAFFIC SIGN		
ТЕ	TURF ESTABLISHMENT		
* WORK TO BE COMPLETED BY OTHERS AS PART OF ROAD WORK CONTRACT			

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	CITY OF ANN ARE	DINI C SERVIC	301 EAST HURON STF	P.O. BOX 8647 ANN ARBOR. MI 48107
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			AINING WALL	PLANS
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734-794-64 www.a2gov.

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5 OF 10

	REMOVAL KEY
Y	DESCRIPTION
	INLET FILTER
	PROTECTIVE FENCING
	TREE, REM, 6" TO 18"
	REMOVE TIMBER WALL
	REMOVE ROCKERY WALL
]	REMOVE & SALVAGE ROCKERY WALL

<u>NOTES:</u> 1) DURING CONSTRUCTION USE CAUTION AND DUE CARE WHEN REMOVING THE EXISTING TIMBER RETAINING WALL AND EXCAVATING FOR NEW MODULAR BLOCK RETAINING WALL TO MINIMIZE IMPACTS AND DISTURBANCE TO THE FOLLOWING:

A) ANY/ALL TREE ROOTS PRESENT FOR THE LANDMARK NORWAY SPRUCE. B) THE EXISTING BUSINESS SIGN AND LIGHTING

2) CLEANLY PRUNE OR SAWCUT ANY ROOTS ENCOUNTERED AND REPAIR/REPLACE (AT CONTRACTOR'S EXPENSE) ANY LIGHTING AND/OR SIGNING COMPONENTS DAMAGED WHEN PERFORMING THIS WORK.

		47 107-8647	Ng 1 ADDENDUM NO. 1 3/14/2023 JAB DAD Know what's below	REV. DESCRIPTION DATE DRAWN CHECKED Call before you
R - PUBLIC SERVICES - ENGINEERING		STATE STREET		KEMUVAL PLAN - SIAIE SIKEEI
	SCALE : 1" = 10'		DRAWING No.	2022-009 & 2023-003-7

7 OF 10

NOTE:

1. T/WALL CALLOUTS AT TOP OF BACK OF WALL

со		Į			now what's below. Call before you dig	
KEY MBRW	DESCRIPTION MODULAR BLOCK RETAINING WALL	$\left \right $				
TE	TURF ESTABLISHMENT	\vdash			CHEC D	! ;
ISRW	INSTALL SALVAGED ROCKERY WALL				JAB DRAW	
					3/14/2023 DATF	1
	NOTES: 1) USE CAUTION AND DUE CARE WHEN CONSTRUCTING THE NEW MODULAR BLOCK RETAINING WALL TO MINIMIZE IMPACTS AND DISTURBANCE TO THE FOLLOWING: A) ANY/ALL TREE ROOTS PRESENT FOR THE LANDMARK NORWAY SPRUCE.				1 ADDENDUM NO. 1 DFSCRIPTION	EV
	B) THE EXISTING BUSINESS SIGN AND LIGHTING.					12
	ENCOUNTERED AND REPAIR/REPLACE (AT CONTRACTOR'S EXPENSE) ANY LIGHTING AND/OR SIGNING COMPONENTS DAMAGED WHEN PERFORMING THIS WORK.	E ANN CITY OF ANN ADD	PUBLIC SERVICE 301 EAST HURON STRE	「 可 の 10 10 10 10 10 10 10 10 10 10	WWW.a2gov.org)
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			SCALE : 1" = 10'		2022-009 & 2023-003-8	

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	- PUBLIC SERVICES - ENGINEERING	GEDDES AVENUE RETAINING WALL STATE STREET		DETAILED GRADING PLAN - STATE STREET
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