

PUBLIC IMPROVEMENT REQUEST FOR PROPOSAL

RFP# 26-03

ANN STREET IMPROVEMENTS

City of Ann Arbor
ENGINEERING UNIT/PUBLIC SERVICES AREA



Due Date: January 20, 2026 by 2:00 p.m. (local time)

Issued By:

City of Ann Arbor
Procurement Unit
301 E. Huron Street
Ann Arbor, MI 48104

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ADDENDUM No. 4

RFP No. 26-03

ANN STREET IMPROVEMENTS

Due: January 29, 2026, at 2:00 PM (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 12 pages.**

The Proposer is to acknowledge receipt of this Addendum No. 4, 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 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
Schedule of Pricing / Cost	Schedule of Pricing/ Cost has been replaced in its entirety. Changes include: Revised sidewalk and pavement quantities.
Plan Sheets 11 to 16	Plan sheets have been replaced in their entirety. Changes include: Reconciled missing sidewalk/pavement callouts and quantities to reflect overall scope of work. Extent of work is unchanged.

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

ADDENDUM No. 3

RFP No. 26-03

ANN STREET IMPROVEMENTS

Due: January 29, 2026, at 2:00 PM (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 7 pages.**

The Proposer is to acknowledge receipt of this Addendum No. 3, 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**
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I. CORRECTIONS/ADDITIONS/DELETIONS

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Section/Page(s)	Change
All mentions	Proposal Due Date: January 27, 2026, at 11:00 a.m. As updated herein: Proposal Due Date: January 29, 2026 at 2:00 p.m. Comment: The Due Date and Time for responses to this RFP has been extended to January 29, 2026, at 2:00 p.m. (local time)
Schedule of Pricing / Cost	Schedule of Pricing/ Cost has been replaced in its entirety.

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 its 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: Can you confirm the HMA performance grade for all courses?

Answer 1: All courses shall be performance grade 64-28.

Question 2: Can you please provide specifications for "Light Fixture, Decorative Globe" for the lighting on this project?

Answer 2: Per the DDA Downtown Design Manual that is incorporated into the City's 2025 Standard Specifications, this fixture shall be as follows: "Ornamental Pedestrian Globe light specification: Lumecon Thirty-Five West, 54 watt, Type V Distribution, 120v - 277v, 3000k, Cut-Off Litelid, Black. Model number: L35W-1-1-OW-B-C. Equipped with a Phillips programmable driver."

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

ADDENDUM No. 2

RFP No. 26-03

ANN STREET IMPROVEMENTS

Due: January 27, 2026, at 11:00 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 93 pages.**

The Proposer is to acknowledge receipt of this Addendum No. 2, 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
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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
Schedule of Pricing / Cost	Schedule of Pricing/ Cost has been replaced in its entirety.
Detailed Specifications	Detailed Specification for Bike Hoop, Surface Mount has been replaced in its entirety. Detailed Specification for Trash Receptacle has been added. Detailed Specification for Tree Grate, 4 ft. x 8 ft. has been replaced in its entirety. Detailed Specification for Trees and Plantings has been added. Detailed Specification of Handhole, Adjust has been added.

Section/Page(s)	Change
Plan Set	Plan Set has been replaced in its entirety. Changes Include: <ul style="list-style-type: none"> • Revised water main stationing and added valves. • Revised storm sewer layout between Ashley and Main. • Added grading information and sheets. • Added one streetlight and adjusted locations. • Add ADA compliant parking space between Main and Fourth. • Removed planter bed at 9+75. • Revised planting schedules and planting details. • Update irrigation plans and details.

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 its 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: Can an engineer's estimate be provided for the project?

Answer 1: The engineer's estimate for the project is \$5,850,000.

Question 2: Can a bid pricing form (Section E) be provided in Excel format?

Answer 2: Yes, email chris.elenbaas@ohm-advisors.com to request the bid form in excel format. Respondents are responsible for confirming that it matches the final bid form.

Question 3: Regarding the Detailed Specification for Permanent Traffic Signs and Supports. Is the Contractor responsible for furnishing & installing the posts, hardware, and signs for the items in the detailed specification? Or is the Contractor responsible for just furnishing the posts, hardware, and signs to the City of Ann Arbor Signs and Signals for them to install?

Answer 3: The Contractor is only responsible to furnish the posts, hardware and signs to the City. The signs will be installed by the City and the Contractor shall be responsible for coordinating installation.

Question 4: How is the removal of existing sidewalk brick pavers paid? Is this included in the sidewalk removal item?

Answer 4: Removal of existing sidewalk brick pavers shall be paid for as "Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem."

Question 5: If there is concrete below the brick pavers, will it be paid separately?

Answer 5: No

Question 6: Where are the brick pavers to be removed and salvaged?

Answer 6: Brick pavers to be salvaged are at the southeast corner of the Fourth and Ann intersection.

- Question 7: Does the pay item “Storm Structure Cover, Adjust” include adjusting existing and new storm manholes and curb catch basins/inlets?
- Answer 7: Yes, per the City’s 2025 Construction Standards, storm structure adjust pay items are to be used for both proposed and existing structures.
- Question 8: Does the pay item “Water Structure Cover, Adjust” include adjusting existing and new gate well structures?
- Answer 8: No, per the City’s 2025 Construction Standards, payment for water structure adjust pay items are only used for existing structures.
- Question 9: Does the pay item “Gate Box, Adjust” include adjusting existing and new gate valve boxes?
- Answer 9: Payment for proposed structures includes providing and installing the frame and structure cover as noted in the 2025 Construction Standards. Structure Cover pay items are for use on existing structures to remain. Structure Adjust pay items are to be used for both proposed and existing structures.
- Question 10: The existing HMA overlays the existing curb on most of the project. How is the removal of HMA removal over the curb to be paid? Please confirm if the overlay quantity will be included in the HMA surface removal pay item or in the concrete pavement item in a composite pavement removal scenario.
- Answer 10: Overlay of existing curb identified for removal will be paid for in the pay item “Curb, Gutter, and Curb and Gutter, Any Type, Rem.” If the underlying curb is not being removed, it will be paid for as “HMA Surface, Rem.”
- Question 11: Will the contractor be paid for the maintenance aggregate to maintain traffic between utility installation and road building? Can a maintenance aggregate item be added?
- Answer 11: Aggregate used for maintenance will be paid for utilizing the existing aggregate base pay items in the contract.
- Question 12: Between Main Street and Fourth Street along the North side of the road there are areas of sidewalk called for removal and replacement along the multiple store fronts. If more than one area is removed or replaced one at a time there will be times of no access to the buildings. Please clarify how the pedestrian traffic and store front entrances are to be handled for this construction.
- Answer 12: Contractor shall coordinate with the City to install temporary pedestrian mats as necessary to maintain access following removals. Pouring of concrete shall be scheduled to minimize impact to store entrances as much as possible.
- Question 13: The proposed water main parallels the existing telecommunication line from Station 103+45 to Station 104+100. Is it known if the telecommunication line is a duct bank? Are the existing telecommunication structures vaults?
- Answer 13: Additional details on this telecommunication line are not available. ATT information indicates that these two structures are manholes. Contractor shall be responsible for confirming existing utilities.
- Question 14: There are many existing hand holes and fiber boxes that will need to be adjusted. How is the adjustment to be paid?
- Answer 14: A pay item for DS_Handhole, Adjust has been added.

Question 15: Please confirm the required water main restraints will follow the stationing on the as shown on the profile. Has consideration been given to restrain all water main joints on this project?

Answer 15: Yes, restraint shall generally follow the profile and the City 2025 Standard Specifications. Full restraint of all piping has not been considered.

Question 16: How is the connection of the existing 12" storm pipe to proposed storm sewer structure R12 at Station 211+49 to be paid? Is it considered a structure tap? Is it incidental to the new manhole?

Answer 16: Incidental to the new manhole.

Question 17: Who is responsible for the survey layout?

Answer 17: The City.

Question 18: Who will be performing on-site inspection? City/Third Party inspection.

Answer 18: The City.

Question 19: Who is responsible and what company will be performing density testing?

Answer 19: The City will utilize a company through their standing contracts for Construction Material Testing Services.

Question 20: Who will be the project manager for the project. OHM or City?

Answer 20: The City.

Question 21: Please clarify any restrictions for driveway approach and alley entrance construction. Will part-width construction be required? If required, please note which approaches will have to be performed part-width. What access to the alleyways and drive approaches will be required within the active construction zone.

Answer 21: Impacts to driveways shall be limited as much as possible. The following driveways shall be constructed with part-width construction:

- Driveways between First and Ashley. Where multiple entrances are present, maintain at least one driveway.
- Southern alley at Station 5+00.
- Southern driveway at Station 8+10.
- Southern driveway at Station 12+25 to 12+80.

Question 22: Can the existing and proposed CAD files be provided be made available?

Answer 22: Yes, they can be provided to the awarded respondent prior to the start of construction.

Question 23: Will the MDOT permit fees be paid by the City? If not, what are the permit fees?

Answer 23: All MDOT fees will be paid by the City.

Question 24: Will all required MDOT material testing be provided by the City?

Answer 24: Yes.

Question 25: Confirm temporary tie-ins to the existing water to be abandoned and removed are not required between phases. If required, please specify the temporary connection locations.

Answer 25: Temporary water tie-ins are anticipated on the west and east sides of Main Street. Layout of the temporary connections shall be reviewed by the City and will be paid under standard water main pay items.

Question 26: Confirm whether water service connections or water main tie-ins will be required outside of the Mon.-Fri. standard working hours. If any do require special tie-in times or days of the week, please specify which ones and the requirements.

Answer 26: All water services on this project may require specific working hours or times of construction. The contractor shall be responsible for accounting for this in the bid and coordinating with the City on timing

Question 27: Please provide the existing overhead clearance for the parking structure.

Answer 27: The clearance is approximately 18.0'. The contractor shall be responsible for confirming existing overhead clearance.

Question 28: The proposed storm sewer is in the location of the existing storm sewer in many locations and also between phases. Are the required temporary connections and taps to the existing storm sewer incidental? Please confirm how temporary connections will be paid.

Answer 28: Temporary connections for maintaining existing storm sewer flow shall be incidental to storm sewer construction. At Main Street , the existing main line storm sewer elevation is approximately 824.9', at Fourth Ave 828.0', and at Fifth Avenue 834.5'.

Question 29: The proposed storm sewer is in the location of the existing storm sewer in many locations and between phases. The existing storm sewer structure information is not provided. Please provide existing storm sewer invert elevations.

Answer 29: Existing storm sewer is generally at or below proposed storm sewer location. The mainline storm sewer is

Question 30: For existing parking meters: Are there any fees for bagging the parking meters or when they are removed and out of service prior to replacement?

Answer 30: There are no fees.

Question 31: There are existing monument boxes within the road reconstruction area at the intersections. Please add a pay item for the monument box adjustments. Will the monuments get new frames and covers?

Answer 31: A monument box adjustment pay item has been added and shall include a new monument box frame and cover. Any work associated with monument preservation will be covered by the City.

Question 32: Is MDOT Class II Limestone Sand acceptable for this project?

Answer 32: Yes, natural or limestone granular material meeting MDOT Class II gradation will be accepted

Question 33: The only MDOT 6A material readily available in the market is MDOT 6AA material. There is a 6A limestone material available that meets the MDOT gradation but not MDOT certified. Please confirm if the 6A material for this project is required to be MDOT certified or a crushed limestone meeting the MDOT 6A gradation will be acceptable for this project.

Answer 33: MDOT 6AA material is acceptable.

Question 34: There is a large quantity of Pedestrian Channelizer Devices in the bid. The MOT plans do not depict the proposed location of the channelizer devices. Is the intent to line the entire construction phase to separate the pedestrians from the work zone and open sidewalk?

Answer 34: Yes, the intent is to install these devices along the entire construction phase.

Question 35: There is a large quantity of Pedestrian Channelizer Devices in the bid. The MOT plans do not depict the proposed location of the channelizer devices. This project consists of multiple mobilizations. Will the installed pedestrian channelizer devices be paid per phase, PHI and PH III of work?

Answer 35: Two blocks of channelizer devices are included in the bid for installation along the entire phase of active work. Additional payment for relocation on each phase will not be paid, but shall be included in Minor Traffic Control.

Question 36: Please confirm if all required temporary type III barricades, barrels, channelizer cones, be paid for each phase/mobilization of work?

Answer 36: No, relocation for each phase shall be covered under Minor Traffic Control.

Question 37: The existing site contains bike lane delineator posts. Is there a pay item for the work? Do any need to be re-installed?

Answer 37: No, there are no bike lane delineator posts.

Question 38: Please clarify how structure frames, covers and adjustments are being paid for each of the three utilities on this project.

Answer 38: For proposed storm structures, the proposed structure item shall include the frame and cover, but not final adjustment. Storm structure adjustment shall apply to proposed and existing structures and shall include a new frame for existing structures only.

For proposed water structures, the proposed structure item shall include the frame and cover but not final adjustment. Water structure adjustment shall include a new frame or box for existing structures only.

For existing sanitary structure adjustments, the adjustments shall include a new frame.

Question 39: The standard details and specifications for Sanitary Manholes, Gate Wells, and Storm Manholes note external chimney seals. The structure cover adjust standard detail, SD-GU-5, does not note external chimney seals. Are external chimney seals required for all existing sanitary manhole, storm manhole, and gate well adjustment items?

Answer 39: Yes, all structure adjustments shall include chimney seals. Installation of external chimney seals at existing structures shall be incidental to the structure adjustment pay item.

Question 40: Proposal pay item specification for, "Excavate and Backfill for Water Service Tap and Lead," states the measurement for payment will be the distance from the new to existing water main. In locations where the proposed water main crosses the existing service this distance is zero. Confirm how payment and measurement of the water service tap and lead be paid for in this scenario for this project.

Answer 40: A minimum of 7 feet of length will be paid for each location with payment for "Excavate and Backfill for Water Service Tap and Lead."

Question 41: Please confirm what length, if any, of water main pipe abandonment are required to be flow filled for this project. Is it only in the MDOT ROW?

Answer 41: All abandoned water main shall be abandoned with flowable fill.

Question 42: How will the water pipe abandonment be measured? Is the intent to pay the abandonment of the water main lump sum?

Answer 42: Water main abandonment will be paid for under "Water Main Pipe, ___ In. Dia, Abandon" by length in lineal feet.

Question 43: Will all composite pavement, HMA over Concrete and HMA over Brick, be paid for as Concrete Pavt, Any Thickness, Rem?

Answer 43: Yes

Question 44: There are +/- 10 existing water services that cross the proposed storm infiltration trench is at an elevation water services are typically installed at. How are the bidding contractors to handle the conflicts between the infiltration trench and existing water services?

Answer 44: Water services shall be lowered below the proposed storm sewer if in conflict with the pipe. Otherwise they may be relocated over the proposed infiltration trench if depth is 5.5' or greater.

Question 45: The profile view on sheet 24 and 25 of the plan set notes the top of infiltration trench in two locations. (831.00 between structure R3 to R4; 835.00 between R7 to R8). Please specify the elevation of both the top and bottom of the infiltration trench by run or runs if consistent elevation between structures. Is the infiltration trench excavation a typical cross section that follows the proposed perforated pipe slope?

Answer 45: Infiltration trench shall be constructed to the elevations shown on the profile. The typical cross section shall be 4'H x 5'W.

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

ADDENDUM No. 1

RFP No. 26-03

ANN STREET IMPROVEMENTS

Due: January 27, 2026, at 11:00 AM (local time)

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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 B – General Declarations**
- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
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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
All mentions	Proposal Due Date: January 20, 2026, at 2:00 p.m. As updated herein: Proposal Due Date: January 27, 2026 at 11:00 a.m. Comment: The Due Date and Time for responses to this RFP has been extended to January 27, 2026, at 11:00 a.m. (local time)
All mentions	Written Question Deadline: January 9, 2026, at 5:00 p.m. As updated herein: Written Question Deadline: January 14, 2026 at 12:00 p.m. Comment: The written question deadline for this RFP has been extended to January 14, 2026, at 12:00 p.m. (local time)

Pre-Proposal Meeting Notes	Add attached pre-proposal meeting notes.
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Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.



Pre-Proposal Meeting Notes

Ann Street Improvements RFP No. 26-03

Tuesday, December 23, 2025
Ann Arbor City Hall, 4th Floor Conference Room

1. Introductions / Sign-In Sheet

- A. See attached sign-in sheet for in person attendance. The following joined the meeting virtually:
 - 1) Nani Wolf – Ann Arbor DDA, nwolf@a2dda.org
 - 2) Shelby Fergon – Ann Arbor DDA, sfergon@a2dda.org

2. Purpose of Meeting

3. Administrative Procedures

- A. Respondents are **not** required to attend Pre-Proposal Meeting in order to submit a proposal.
- B. Oral statements made at this meeting or any time during the bidding process may not be relied upon or binding. All questions about the meaning or the intent of the Bidding Documents are to be submitted in writing to the Engineers below. Interpretations or clarifications considered necessary by the Engineer in response to questions will be issued by Addenda delivered to all parties recorded as having received Bidding Documents.
 - 1) Final Day for Contractor's Written Questions is Friday, January 9, 2026 at 5:00 pm.
 - 2) Questions to be sent via email as indicated in the RFP.
 - 3) Responses to Contractor's Written Questions will be addressed in an addendum during the week of January 12, 2026.
- C. RFP Documents are available at no charge on MITN or the City of Ann Arbor Purchasing Website.
- D. Proposals are due and must be delivered to City Hall on or before January 20, 2026, by 2:00 p.m. (local time).
- E. The following documents must be included with the Proposals:
 - 1) One (1) original proposal
 - 2) One (1) additional proposal copy
 - 3) one (1) digital copy of the proposal preferably on a USB/flash drive as one file in PDF format
- F. A proposal may be disqualified if the following required forms are not included with the proposal:
 - 1) Attachment B – General Declarations
 - 2) Attachment D - Prevailing Wage Declaration of Compliance

- 3) Attachment E - Living Wage Declaration of Compliance
 - 4) Attachment G - Vendor Conflict of Interest Disclosure Form
 - 5) Attachment H - Non-Discrimination Declaration of Compliance
- G. Proposals that fail to provide these forms listed above upon proposal opening may be deemed non-responsive and may not be considered for award.
- H. Bid must be accompanied by bid security made payable to Owner in an amount of 5% of Bidder's maximum bid price (determined by adding the base bid and all alternates) in the form of a certified check, or a Bid Bond.
- I. Davis Bacon Wage Rates will apply in accordance with City Requirements. The wage determination current on the date 10 days before proposals are due shall apply. See Section 4 – Wage Requirements in the General Conditions section of the Proposal. For this RFP the Construction Type of Heavy and Highway will apply.
- J. Liquidated Damages. Assessed at \$2,000.00 per day.
- K. Proposal Format: Closely review RFP requirements for elements that should be included in the proposal. Organize Proposals into the following Sections:
- 1) Qualifications, Experience and Accountability
 - 2) Workplace Safety
 - 3) Workforce Development
 - 4) Social Equity and Sustainability
 - 5) Schedule of Pricing/Cost
 - 6) Authorized Negotiator
 - 7) Attachments

L. Schedule:

Activity	Date
Pre-Proposal Meeting	Tuesday, December 23, 2025 @ 10:00 a.m.
Final day for Contractor written questions	Friday, January 9, 2026 @ 5:00 p.m.
Addendum Posted	Week of January 12, 2026
Proposals due	Tuesday, January 20, 2026 @ 2:00 p.m.
Selection/Negotiations	January/February 2026
Expected City Council Authorizations	March 2, 2026
Contract Execution	March 2026
Anticipated Notice to Proceed Issued	April 1, 2026
Substantial Completion	November 15, 2026

4. Summary of Project

- A. Construction of approximately 1,800 LF of PC 350 DIP water main (4" service leads, 6", 8", 12" and 16"), including associated fittings, structures and hydrants, service lead transfers and abandonment of existing iron water mains.

Construction of approximately 1,000 LF of CL IV RCP storm sewer (12" – 24") including associated structures, and abandonment/removal of existing storm sewers.

Construction of approximately 500 LF of stone infiltration trench with perforated HDPE pipe.

Construction of approximately 7,000 SY of local street resurfacing including, pavement removal and HMA paving, including associated curb & gutter removal and replacement, sidewalk and sidewalk ramp removal and replacement, machine grading, 21AA aggregate base placement, grading and compaction and pavement markings. Removal of composite pavement sections will be paid for as concrete pavement removal.

Construction of streetscape improvements, including: approximately 15 streetlights; approximately 2,900 SF of brick pavers; pedestrian amenities including bike hoops, benches and trash receptacles; and planters, tree grates and landscape materials.

B. Schedule and Phasing:

- 1) Note **Project Schedule and Payment** Detailed Specification for schedule and phasing information for basis of proposal.
 - i. Three (3) Phases for the Work
 - ii. Phase 1: First Street to the west of the Main Street intersection, to be completed by June 19, 2026
 - iii. Phase 2: Main Street Intersection, cannot start until the Monday after Ann Arbor Art Fair (July 20, 2026) and must be completed by August 22, 2026
 - iv. Phase 3: East of the Main Street intersection to Fifth Avenue intersection to start after the completion of Phase 2 and must be completed by November 15, 2026.

C. Project Coordination:

- 1) Note **Project Coordination** Detailed Specification
 - i. Multiple City Road projects occurring in the downtown area in 2026.
 - ii. High Level Sanitary Sewer project occurring at the west end of the project limits
 1. Coordination of traffic control
 2. Detour for High Level Sanitary
 - iii. DTE gas main replacement on 4th Avenue from Packard to Ann Street
 - iv. Contractor to collaboratively coordinate with the City, DDA and Hands-On Museum on relocation of on-street bus parking/staging area.

D. 30" Water Main:

- 1) Note the existing 30" PCCP transmission water main along and in the vicinity of the new 12" water main installation
- 2) Main Street intersection (Phase 2) includes replacement of existing 12" interconnection gate valve. Existing valve on tee off the 30" is broken partially closed. Shutdown of the 30" main is required to remove and replace the 12" valve. Unknown if existing valve is flange or MJ.
- 3) Exploratory Excavations called out for Ann/Ashley Parking Structure to determine if existing 6" service is connected to 30" or existing 6" main

E. Irrigation System:

- 1) Installer to have a certified irrigation designer qualified by The Irrigation Association and a licensed plumber.

- 2) The water main taps, piping to the curb stop valve & box, curb stop valves & boxes, and meters associated with the Irrigation System will be provided and installed by the City of Ann Arbor. Payment for all applicable fees & charges for these items will be paid by the Ann Arbor DDA.
 - 3) Contractor is responsible for all required plumbing permits and inspections through the City Building Department, including associated fees.
- F. Permits
- 1) PA 399 Permit (Water Main Construction) – Permit being submitted to EGLE and receipt is anticipated prior to the start of construction.
 - 2) Soil Erosion Control Permit – City of Ann Arbor
 - 3) MDOT Right-of-Way Permit – Permit being submitted for work at Main Street (MDOT) right-of-way during Phase 2 prior to the start of construction.
- G. Site Specific Requirements
- 1) Reference Geotechnical reports in the Contract Documents.
 - 2) Some of the existing pavement sections include concrete and bricks.

5. Questions and Answers

- A. How is the signage being handled on the project? **Contractor shall remove existing signs and produce and provide signage, posts and mounting brackets. The City will handle final installation of the provided signage. Additional signage information will be provided with the construction set drawing, but quantities for providing signage and materials to the City have been included in the bid set drawings.**
- B. Does driveway access need to be maintained? **Yes, unless otherwise noted.**
- C. Do the storm sewer grades work out for a temporary connection? **Yes.**
- D. Can sidewalk/pavement grades be provided? **Yes, additional grading information will be provided with the construction set drawings.**
- E. Will special hours be required for water service interruptions at businesses along the project? **Possibly, additional details will be provided.**
- F. How is payment for short side water services being handled? **A minimum of 7 feet of water service excavation will be paid for short side service connections.**
- G. Is there any directional drill installation of pipe/conduit planned on the project? **No**

Project Title: Ann Street Improvements		Project Number: RFP# 26-03	
Meeting Date and Time: Tuesday, December 23, 2025 at 10:00 am		Meeting Location: Ann Arbor City Hall, 4th Floor Conf. Room, 301 E. Huron St. Ann Arbor, MI 48104	

PRE-PROPOSAL MEETING SIGN IN SHEET

Name	Contractor/Representing	Email	Phone
Mike Haversler	E.T. Mackenzie	m.haversler@wackenzie.com	734-260-1792
Safwan Kaleem	Major Contracting Group	Skaleemullah@majorcontracting.com	248-862-0958
Malek DIBAH	Fonson Inc.	malek@fonsoninc.com	810-231-5188
TJ Leiber	OHM	thomas.leiber@ohm-advisors.com	734-260-7276
Andy DeHling	ESA Services	andy@ESAservices.net	734-812-3097
Tracy Anderson	AZ	tanderson@az.gov.org	784-751-1909
Chris ELENBAAS	OHM	CHRIS.ELENBAAS@OHM-ADVISORS.COM	734-466-4465

E. Schedule of Pricing/Cost – Amended Feb. 24, 2026

Company: Bailey Excavating, Inc.

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED		TOTAL PRICE
			QUANTITY	UNIT PRICE	
General					
01000.00	General Conditions, Max. \$500,000	LSUM	1	\$500,000.00	\$500,000.00
01001.00	Project Supervision, Max. \$250,000	LSUM	1	\$250,000.00	\$250,000.00
01002.00	Project Clean-Up and Restoration	LSUM	1	\$50,000.00	\$50,000.00
01003.00	Digital Audio Visual Coverage	LSUM	1	\$1,835.46	\$1,835.46
01004.00	Allowance for Unforeseen Conditions	Dlr	50,000	\$1.00	\$50,000.00
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	66	\$102.60	\$6,771.60
01030.00	Tree Protection Fence	Ft	250	\$4.90	\$1,225.00
01040.00	Minor Traffic Control, Max. \$50,000	LSUM	1	\$50,000.00	\$50,000.00
01050.00	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	2,107	\$7.83	\$16,497.81
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	1,363	\$8.22	\$11,203.86
01052.00	Temporary "No Parking" Sign	Ea	50	\$128.73	\$6,436.50
01061.00	Lighted Arrow, Type B, Furn & Oper	Ea	1	\$1,369.70	\$1,369.70
01070.00	Sign, Portable, Changeable Message, Furn & Oper	Ea	4	\$3,913.45	\$15,653.80
01080.00	Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	20	\$70.44	\$1,408.80
01081.00	Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	250	\$43.04	\$10,760.00
01092.00	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper	Ea	10	\$207.41	\$2,074.10
01100.00	Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	100	\$156.54	\$15,654.00
01101.00	Pedestrian Channelizer Device, Furn & Oper	Ea	350	\$156.54	\$54,789.00
01102.00	Temporary Pedestrian Ramp, Furn & Oper	Ea	10	\$734.18	\$7,341.80
01103.00	Temporary Pedestrian Mat, Furn & Oper	Ft	300	\$18.35	\$5,505.00
01160.71	DS_Sign, Type III, Rem	Ea	18	\$42.91	\$772.38
01160.72	DS_Fdn, Perforated Steel Square Tube Breakaway System, Rem	Ea	39	\$94.40	\$3,681.60
01160.73	DS_Ground Mtd Sign Support, Rem	Ea	38	\$60.07	\$2,282.66
01160.75	DS_Sign, Type IIIB, Modified	Sft	99	\$32.61	\$3,228.39
01160.77	DS_Perforated Steel Square Tube Breakaway System, Modified	Ea	39	\$677.99	\$26,441.61
01160.78	DS_Post, Steel, 3 Lb.	Ft	128	\$18.02	\$2,306.56
01170.81	DS_Parking Meter, Rem	Ea	37	\$250.00	\$9,250.00
01170.82	DS_Parking Meter, Install	Ea	37	\$500.00	\$18,500.00
Removals					
02000.01	Tree, Rem, 6 In. - 12 In.	Ea	16	\$1,394.94	\$22,319.04
02000.02	Tree, Rem, 13 In. - 19 In.	Ea	2	\$1,835.46	\$3,670.92
02021.00	HMA Surface, Rem	Syd	245	\$9.14	\$2,239.30
02025.00	Concrete Pavt, Any Thickness, Rem	Syd	7,138	\$19.15	\$136,692.70
02030.00	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	2,634	\$12.19	\$32,108.46
02040.00	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	15,039	\$1.02	\$15,339.78
02050.00	Sign, Rem, Salv	Ea	97	\$85.82	\$8,324.54
Earthwork					
03000.00	Machine Grading, _____, Modified	Sta	13.75	\$9,640.72	\$132,559.90
03022.00	Subgrade Undercutting, Type III	Cyd	100	\$129.49	\$12,949.00
03030.01	Exploratory Excavation, SD-TD-1, (0-10' Deep)	Ea	12	\$3,988.19	\$47,858.28
Sanitary Sewer					
04014.01	6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2	Ft	100	\$234.84	\$23,484.00
04061.00	Sanitary Structure Cover, Adjust	Ea	7	\$2,960.14	\$20,720.98
TOTAL THIS PAGE (BF-1)					\$1,583,256.53

E. Schedule of Pricing/Cost – Amended Feb. 24, 2026

Company: Bailey Excavating, Inc.

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED		
			QUANTITY	UNIT PRICE	TOTAL PRICE
Storm and Drainage					
06000.01	12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	758	\$198.85	\$150,728.30
06000.03	18 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	185	\$250.41	\$46,325.85
06000.05	24 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	41	\$273.44	\$11,211.04
06003.01	6 In., PE Storm Sewer, SD-TD-2	Ft	12	\$181.13	\$2,173.56
06003.06	18 In., PE Storm Sewer, SD-TD-2	Ft	138	\$221.72	\$30,597.36
06030.01	Storm Sewer Tap, 6 In. Dia.	Ea	3	\$572.12	\$1,716.36
06030.04	Storm Sewer Tap, 12 In. Dia.	Ea	7	\$1,144.26	\$8,009.82
06030.06	Storm Sewer Tap, 18 In. Dia.	Ea	1	\$1,144.26	\$1,144.26
06030.08	Storm Sewer Tap, 24 In. Dia.	Ea	4	\$1,525.67	\$6,102.68
06050.01	Storm Manhole, 48 In. Dia. (0-8' deep)	Ea	7	\$6,372.75	\$44,609.25
06050.02	Storm Manhole, 48 In. Dia., Additional Depth	Ft	4	\$762.84	\$3,051.36
06050.03	Storm Manhole, 60 In. Dia. (0-8' deep)	Ea	4	\$10,634.02	\$42,536.08
06050.04	Storm Manhole, 60 In. Dia., Additional Depth	Ft	4	\$1,144.26	\$4,577.04
06060.03	Storm Inlet-Junction, 48 In. Dia., (0-8' deep)	Ea	5	\$6,293.50	\$31,467.50
06060.04	Storm Inlet-Junction, 48 In. Dia., Additional Depth	Ft	3	\$762.84	\$2,288.52
06060.05	Storm Inlet- Junction, 60 In. Dia., (0-8' deep)	Ea	1	\$11,843.20	\$11,843.20
06060.06	Storm Inlet-Junction, 60 In. Dia., Additional Depth	Ft	1	\$1,144.26	\$1,144.26
06070.01	Storm Single Inlet, 24 In. Dia., (0-8' deep)	Ea	3	\$4,516.13	\$13,548.39
06090.01	Storm Manhole with Weir, 72 In. Dia., (0-8' deep)	Ea	2	\$21,143.75	\$42,287.50
06090.02	Storm Manhole with Weir, 72 In. Dia., Additional Depth	Ft	1	\$1,525.67	\$1,525.67
06091.01	DS_Storm Manhole, 48 In. Dia., with Leaching Base (0-10' deep)	Ea	5	\$8,762.92	\$43,814.60
06091.02	DS_Storm Single Inlet, 24 In. Dia., with Leaching Base (0-10' deep)	Ea	12	\$5,750.60	\$69,007.20
06110.03	Storm Sewer Pipe, 12 In. Dia., Abandon	Ft	186	\$48.32	\$8,987.52
06110.05	Storm Sewer Pipe, 18 In. Dia., Abandon	Ft	280	\$57.24	\$16,027.20
06120.03	Storm Sewer Pipe, 12 In. Dia., Rem	Ft	559	\$91.14	\$50,947.26
06120.05	Storm Sewer Pipe, 18 In. Dia., Rem	Ft	415	\$100.59	\$41,744.85
06120.07	Storm Sewer Pipe, 24 In. Dia., Rem	Ft	23	\$123.28	\$2,835.44
06140.00	Storm Sewer Structure, Rem	Ea	22	\$2,178.49	\$47,926.78
06160.01	Storm Structure Cover	Ea	13	\$950.00	\$12,350.00
06160.02	Storm Structure Cover, Adjust	Ea	89	\$1,350.00	\$120,150.00
06180.02	Underdrain, Subgrade, 6 In.	Ft	100	\$99.13	\$9,913.00
06220.01	DS_Infiltration Trench	Ft	490	\$323.07	\$158,304.30
Water Mains					
07000.01	4 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	101	\$213.11	\$21,524.11
07000.02	6 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	126	\$238.24	\$30,018.24
07000.03	8 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	36	\$341.41	\$12,290.76
07000.05	12 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	1,585	\$290.08	\$459,776.80
07001.01	16 In., PC 250 DIP w/polywrap, SD-TD-1	Ft	195	\$383.02	\$74,688.90
07010.02	6 In. 45° DIP Bend	Ea	14	\$1,178.77	\$16,502.78
07011.01	8 In. 90° DIP Bend	Ea	2	\$1,525.06	\$3,050.12
07011.02	8 In. 45° DIP Bend	Ea	2	\$1,430.90	\$2,861.80
07013.01	12 In. 90° DIP Bend	Ea	4	\$2,381.93	\$9,527.72
07013.02	12 In. 45° DIP Bend	Ea	54	\$1,867.95	\$100,869.30
07013.03	12 In. 22.5° DIP Bend	Ea	2	\$1,943.16	\$3,886.32
07013.04	12 In. 11.25° DIP Bend	Ea	2	\$1,989.76	\$3,979.52
TOTAL THIS PAGE (BF-2)					\$1,777,872.52

E. Schedule of Pricing/Cost – Amended Feb. 24, 2026

Company: Bailey Excavating, Inc.

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED	UNIT PRICE	TOTAL PRICE
			QUANTITY		
Water Mains (Continued)					
07014.01	16 In. 90° DIP Bend	Ea	4	\$5,495.15	\$21,980.60
07014.02	16 In. 45° DIP Bend	Ea	8	\$4,539.98	\$36,319.84
07016.02	DS_4 In. 45° DIP Bend	Ea	6	\$1,014.10	\$6,084.60
07020.03	8 In. X 6 In. DIP Reducer	Ea	3	\$1,251.94	\$3,755.82
07020.07	12 In. X 4 In. DIP Reducer	Ea	1	\$1,725.19	\$1,725.19
07020.08	12 In. X 6 In. DIP Reducer	Ea	4	\$1,592.03	\$6,368.12
07020.09	12 In. X 8 In. DIP Reducer	Ea	2	\$1,691.40	\$3,382.80
07020.14	16 In. X 12 In. DIP Reducer	Ea	2	\$2,925.42	\$5,850.84
07020.30	DS_16 in. x 14 in. DIP Reducer	Ea	2	\$3,678.01	\$7,356.02
07030.11	12 In. X 12 In. X 4 In. DIP Tee	Ea	4	\$2,926.53	\$11,706.12
07030.12	12 In. X 12 In. X 6 In. DIP Tee	Ea	4	\$2,850.65	\$11,402.60
07030.13	12 In. X 12 In. X 8 In. DIP Tee	Ea	2	\$3,147.07	\$6,294.14
07030.15	12 In. X 12 In. X 12 In. DIP Tee	Ea	6	\$3,394.95	\$20,369.70
07030.17	16 In. X 16 In. X 8 In. DIP Tee	Ea	1	\$5,332.89	\$5,332.89
07030.18	16 In. X 16 In. X 12 In. DIP Tee	Ea	1	\$5,954.49	\$5,954.49
07030.20	16 In. X 16 In. X 16 In. DIP Tee	Ea	2	\$6,910.54	\$13,821.08
07050.01	Gate Valve in Box, 6 In.	Ea	5	\$3,452.71	\$17,263.55
07050.04	Gate Valve in Box, 12 In.	Ea	3	\$6,487.79	\$19,463.37
07050.05	Gate Valve in Box, 16 In.	Ea	2	\$16,639.53	\$33,279.06
07050.11	DS_Gate Valve in Box, 4 In.	Ea	4	\$3,083.98	\$12,335.92
07051.01	DS_PCCP Gate Valve in Box, 12 In.	Ea	1	\$14,509.27	\$14,509.27
07060.04	Gate Valve in Well, 12 In.	Ea	7	\$14,554.05	\$101,878.35
07080.00	Excavate & Backfill For Water Service Tap and Lead	Ft	132	\$123.97	\$16,364.04
07091.00	Water Structure Cover, Adjust	Ea	1	\$2,015.84	\$2,015.84
07100.00	Fire Hydrant Assembly, Complete	Ea	3	\$12,667.03	\$38,001.09
07102.00	Fire Hydrant Assembly, Rem	Ea	3	\$3,214.22	\$9,642.66
07110.01	Sacrificial Anode, 17-pound	Ea	9	\$1,020.53	\$9,184.77
07110.02	Sacrificial Anode, 32-pound	Ea	2	\$1,052.69	\$2,105.38
07120.00	Gate Box, Adjust	Ea	6	\$1,229.57	\$7,377.42
07130.01	Temporary Water Main Line Stop, 8 In. or less	Ea	13	\$9,500.00	\$123,500.00
07130.08	DS_Temporary Water Main Line Stop, 14 In.	Ea	1	\$22,515.14	\$22,515.14
07131.00	Temporary Water Main Line Stop, Additional Rental Day	Ea	6	\$1,101.28	\$6,607.68
07140.02	Water Main Pipe, 6 In. Dia., Abandon	Ft	1,525	\$22.93	\$34,968.25
07140.06	Water Main Pipe, 14 In. Dia., Abandon	Ft	131	\$57.10	\$7,480.10
07150.02	Water Main Pipe, 6 In. Dia., Rem	Ft	180	\$165.50	\$29,790.00
07150.03	Water Main Pipe, 8 In. Dia., Rem	Ft	40	\$166.82	\$6,672.80
07150.05	Water Main Pipe, 12 In. Dia., Rem	Ft	25	\$182.28	\$4,557.00
07150.06	Water Main Pipe, 14 In. Dia., Rem	Ft	25	\$182.28	\$4,557.00
07170.02	Gate Valve in Box, 6 In. Dia., Rem	Ea	4	\$1,144.26	\$4,577.04
07170.03	Gate Valve in Box, 8 In. Dia., Rem	Ea	2	\$1,144.26	\$2,288.52
07180.02	Gate Valve in Well, 6 In. Dia., Abandon	Ea	2	\$1,548.23	\$3,096.46
07190.02	Gate Valve in Well, 6 In. Dia., Rem	Ea	2	\$2,843.93	\$5,687.86
07200.01	DS_Insulation Board, 2-inch	Sft	240	\$12.31	\$2,954.40
Streets, Driveways, & Sidewalks					
08000.00	Subbase, CIP	Cyd	445	\$67.48	\$30,028.60
TOTAL THIS PAGE (BF-3)					\$740,406.42

E. Schedule of Pricing/Cost – Amended Feb. 24, 2026

Company: Bailey Excavating, Inc.

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
Streets, Driveways, & Sidewalks (Continued)					
08010.02	Aggregate Base, 4 In., 21AA, CIP	Syd	12	19.29	\$231.48
08010.03	Aggregate Base, 6 In., 21AA, CIP	Syd	1,590	\$20.26	\$32,213.40
08010.03	Aggregate Base, 8 In., 21AA, CIP	Syd	7,370	\$23.32	\$171,868.40
08050.00	Geotextile Separator Fabric	Syd	314	\$3.33	\$1,045.62
08051.00	Geotextile Stabilization Fabric	Syd	112	\$20.02	\$2,242.24
08070.11	HMA, 3EML	Ton	931	\$188.17	\$175,186.27
08070.15	HMA, 4EML	Ton	630	\$215.44	\$135,727.20
08070.19	HMA, 5EML	Ton	740	\$204.53	\$151,352.20
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	2,167	\$44.05	\$95,456.35
08120.01	Conc, Driveway Opening, Type M	Ft	855	\$44.05	\$37,662.75
08130.01	Conc, Sidewalk, 4 In.	Sft	540	\$8.81	\$4,757.40
08131.01	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	Sft	4,914	\$11.74	\$57,690.36
08131.02	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.	Sft	15,351	\$12.49	\$191,733.99
08132.01	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early	Sft	100	\$32.30	\$3,230.00
08132.02	Conc, Sidewalk, Drive Approach, or Ramp, 8 In., High Early	Sft	100	\$32.30	\$3,230.00
08140.01	Brick Pavers, Sidewalk, Rem and Reinstall	Sft	705	\$22.03	\$15,531.15
08140.01	DS_Perforated Concrete Base, 6 In.	Sft	2,826	\$8.81	\$24,897.06
08140.02	DS_Brick Pavers, New	Sft	2,826	\$36.71	\$103,742.46
08140.03	DS_Salvaged Brick Pavers	Sft	90	\$22.03	\$1,982.70
08150.00	Detectable Warning Surface	Ft	180	\$73.42	\$13,215.60
08151.00	DS_Tactile Directional Indicator	Ft	128	\$117.47	\$15,036.16
08150.00	DS_Pavt Mrkg, Polymer Cement Surface, Bike Lane, Green	Sft	72	\$96.66	\$6,959.52
08200.07	Pavt Mrkg, Polyurea, 12 In., Crosswalk	Ft	1,224	\$13.81	\$16,903.44
08200.09	Pavt Mrkg, Polyurea, 24 In., Stop Bar	Ft	264	\$31.47	\$8,308.08
08200.11	Pavt Mrkg, Polyurea, 4 In., White	Ft	50	\$3.85	\$192.50
08200.12	Pavt Mrkg, Polyurea, 4 In., Yellow	Ft	2,112	\$3.85	\$8,131.20
08200.13	Pavt Mrkg, Polyurea, 6 In., White	Ft	48	\$6.91	\$331.68
08251.00	Recessing Pavt Mrkg, Longit	Ft	2,112	\$3.06	\$6,462.72
08252.00	Recessing Pavt Mrkg, Transv	Sft	496	\$8.88	\$4,404.48
08300.00	Monument Box, Adjust	Ea	1	\$1,398.82	\$1,398.82
Lighting and Electrical					
09000.02	Conductors, No. 6AWG	Ft	4,363	\$4.44	\$19,371.72
09011.01	Conduit, Schedule 80 PVC, 2 In., Qty 2	Ft	1,570	\$33.00	\$51,810.00
09030.01	Handhole Assembly, 17 In. X 30 In. x 18 In.	Ea	13	\$2,623.27	\$34,102.51
09030.01	DS_Handhole, Adjust	Ea	10	\$282.50	\$2,825.00
09040.03	DS_Electrical Cabinet	Ea	2	\$25,000.00	\$50,000.00
09050.00	Foundation, Light Pole	Ea	13	\$3,874.36	\$50,366.68
09060.00	Foundation, Light Pole, Rem	Ea	2	\$968.59	\$1,937.18
09090.01	Light Pole, DDA	Ea	17	\$15,000.00	\$255,000.00
09112.01	Light Fixture, Decorative Globe	Ea	24	\$3,100.00	\$74,400.00
Landscaping					
10000.02	Tree, Large, B&B	Ea	19	\$2,202.54	\$41,848.26
10010.03	Plant, Gal	Ea	1,230	\$66.07	\$81,266.10
10040.00	Landscape Maintenance and Warranty, 1 Year	LS	1	\$11,012.73	\$11,012.73
10060.00	Turf Restoration	Syd	347	\$12.01	\$4,167.47
10051.01	DS_Irrigation System	LS	1	\$36,709.09	\$36,709.09
TOTAL THIS PAGE (BF-4)					\$2,005,941.97

E. Schedule of Pricing/Cost – Amended Feb. 24, 2026

Company: Bailey Excavating, Inc.

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
Landscaping (Continued)					
10061.00	DS_Planting Soil and Mulch	Cyd	383	\$110.13	\$42,179.79
10100.01	DS_Bike Hoop, Surface Mount	Ea	-	\$4,405.09	\$0.00
10100.02	DS_Urban Bench	Ea	2	\$7,341.81	\$14,683.62
10100.03	DS_DDA Planter Curb	LF	960	\$89.00	\$85,440.00
10100.04	DS_Tree Grate, 4 ft. x 8 ft.	Ea	14	\$4,500.00	\$63,000.00
10100.05	DS_Trash Receptacle	Ea	-	\$4,405.09	\$0.00
TOTAL THIS PAGE (BF-5)					<u>\$205,303.41</u>
TOTAL FROM PAGE BF-1:					<u>\$1,583,256.53</u>
TOTAL FROM PAGE BF-2:					<u>\$1,777,872.52</u>
TOTAL FROM PAGE BF-3:					<u>\$740,406.42</u>
TOTAL FROM PAGE BF-4:					<u>\$2,005,941.97</u>
TOTAL FROM PAGE BF-5:					<u>\$205,303.41</u>
TOTAL BASE BID:					<u><u>\$6,312,780.85</u></u>

Original Schedule of Pricing - Void
 Highlighted cells were changed in
 Amended Schedule of Pricing.

E. Schedule of Pricing/Cost – 20 Points

Company: Bailey Excavating

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED		TOTAL PRICE
			QUANTITY	UNIT PRICE	
General					
01000.00	General Conditions, Max. \$500,000	LSUM	1	\$500,000.00	\$500,000.00
01001.00	Project Supervision, Max. \$250,000	LSUM	1	\$250,000.00	\$250,000.00
01002.00	Project Clean-Up and Restoration	LSUM	1	\$50,000.00	\$50,000.00
01003.00	Digital Audio Visual Coverage	LSUM	1	\$1,835.46	\$1,835.46
01004.00	Allowance for Unforeseen Conditions	Dir	50,000	\$1.00	\$50,000.00
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	66	\$102.60	\$6,771.60
01030.00	Tree Protection Fence	Ft	250	\$4.90	\$1,225.00
01040.00	Minor Traffic Control, Max. \$50,000	LSUM	1	\$50,000.00	\$50,000.00
01050.00	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	2,107	\$7.83	\$16,497.81
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn & Oper	Sft	1,363	\$8.22	\$11,203.86
01052.00	Temporary "No Parking" Sign	Ea	50	\$128.73	\$6,436.50
01061.00	Lighted Arrow, Type B, Furn & Oper	Ea	1	\$1,369.70	\$1,369.70
01070.00	Sign, Portable, Changeable Message, Furn & Oper	Ea	4	\$3,913.45	\$15,653.80
01080.00	Plastic Drum, High Intensity, Lighted, Furn & Oper	Ea	20	\$70.44	\$1,408.80
01081.00	Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	250	\$43.04	\$10,760.00
01092.00	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Ope	Ea	10	\$207.41	\$2,074.10
01100.00	Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	100	\$156.54	\$15,654.00
01101.00	Pedestrian Channelizer Device, Furn & Oper	Ea	350	\$156.54	\$54,789.00
01102.00	Temporary Pedestrian Ramp, Furn & Oper	Ea	10	\$734.18	\$7,341.80
01103.00	Temporary Pedestrian Mat, Furn & Oper	Ft	300	\$18.35	\$5,505.00
01160.71	DS_Sign, Type III, Rem	Ea	18	\$42.91	\$772.38
01160.72	DS_Fdn, Perforated Steel Square Tube Breakaway System, Rem	Ea	39	\$94.40	\$3,681.60
01160.73	DS_Ground Mtd Sign Support, Rem	Ea	38	\$60.07	\$2,282.66
01160.75	DS_Sign, Type IIIB, Modified	Sft	99	\$32.61	\$3,228.39
01160.77	DS_Perforated Steel Square Tube Breakaway System, Modified	Ea	39	\$677.99	\$26,441.61
01160.78	DS_Post, Steel, 3 Lb.	Ft	128	\$18.02	\$2,306.56
01170.81	DS_Parking Meter, Rem	Ea	37	\$1,101.28	\$40,747.36
01170.82	DS_Parking Meter, Install	Ea	37	\$2,202.54	\$81,493.98
Removals					
02000.01	Tree, Rem, 6 In. - 12 In.	Ea	16	\$1,394.94	\$22,319.04
02000.02	Tree, Rem, 13 In. - 19 In.	Ea	2	\$1,835.46	\$3,670.92
02021.00	HMA Surface, Rem	Syd	245	\$9.14	\$2,239.30
02025.00	Concrete Pavt, Any Thickness, Rem	Syd	7,138	\$19.15	\$136,692.70
02030.00	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	2,634	\$12.19	\$32,108.46
02040.00	Sidewalk, Sidewalk Ramp, and Driveway Approach, Any Thickness, Rem	Sft	15,039	\$1.02	\$15,339.78
02050.00	Sign, Rem, Salv	Ea	97	\$85.82	\$8,324.54
Earthwork					
03000.00	Machine Grading, _____, Modified	Sta	13.75	\$9,640.72	\$132,559.90
03022.00	Subgrade Undercutting, Type III	Cyd	100	\$129.49	\$12,949.00
03030.01	Exploratory Excavation, SD-TD-1, (0-10' Deep)	Ea	12	\$3,988.19	\$47,858.28
Sanitary Sewer					
04014.01	6 In., SDR 26 PVC Sanitary Service Lead, SD-TD-2	Ft	100	\$234.84	\$23,484.00
04061.00	Sanitary Structure Cover, Adjust	Ea	7	\$2,960.14	\$20,720.98
TOTAL THIS PAGE (BF-1)					\$1,677,747.87

Original Schedule of Pricing - VOID

E. Schedule of Pricing/Cost – 20 Points

Company:

Project: Ann Street Improvements

File #: 2022-025

RFP #: 26-03

ITEM NUMBER	LEGEND	UNIT	ESTIMATED	UNIT PRICE	TOTAL PRICE
			QUANTITY		
Storm and Drainage					
06000.01	12 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	758	\$198.85	\$150,728.30
06000.03	18 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	185	\$250.41	\$46,325.85
06000.05	24 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	41	\$273.44	\$11,211.04
06003.01	6 In., PE Storm Sewer, SD-TD-2	Ft	12	\$181.13	\$2,173.56
06003.06	18 In., PE Storm Sewer, SD-TD-2	Ft	138	\$221.72	\$30,597.36
06030.01	Storm Sewer Tap, 6 In. Dia.	Ea	3	\$572.12	\$1,716.36
06030.04	Storm Sewer Tap, 12 In. Dia.	Ea	7	\$1,144.26	\$8,009.82
06030.06	Storm Sewer Tap, 18 In. Dia.	Ea	1	\$1,144.26	\$1,144.26
06030.08	Storm Sewer Tap, 24 In. Dia.	Ea	4	\$1,525.67	\$6,102.68
06050.01	Storm Manhole, 48 In. Dia. (0-8' deep)	Ea	7	\$6,372.75	\$44,609.25
06050.02	Storm Manhole, 48 In. Dia., Additional Depth	Ft	4	\$762.84	\$3,051.36
06050.03	Storm Manhole, 60 In. Dia. (0-8' deep)	Ea	4	\$10,634.02	\$42,536.08
06050.04	Storm Manhole, 60 In. Dia., Additional Depth	Ft	4	\$1,144.26	\$4,577.04
06060.03	Storm Inlet-Junction, 48 In. Dia., (0-8' deep)	Ea	5	\$6,293.50	\$31,467.50
06060.04	Storm Inlet-Junction, 48 In. Dia., Additional Depth	Ft	3	\$762.84	\$2,288.52
06060.05	Storm Inlet- Junction, 60 In. Dia., (0-8' deep)	Ea	1	\$11,843.20	\$11,843.20
06060.06	Storm Inlet-Junction, 60 In. Dia., Additional Depth	Ft	1	\$1,144.26	\$1,144.26
06070.01	Storm Single Inlet, 24 In. Dia., (0-8' deep)	Ea	3	\$4,516.13	\$13,548.39
06090.01	Storm Manhole with Weir, 72 In. Dia., (0-8' deep)	Ea	2	\$21,143.75	\$42,287.50
06090.02	Storm Manhole with Weir, 72 In. Dia., Additional Depth	Ft	1	\$1,525.67	\$1,525.67
06091.01	DS_Storm Manhole, 48 In. Dia., with Leaching Base (0-10' deep)	Ea	5	\$8,762.92	\$43,814.60
06091.02	DS_Storm Single Inlet, 24 In. Dia., with Leaching Base (0-10' deep)	Ea	12	\$5,750.60	\$69,007.20
06110.03	Storm Sewer Pipe, 12 In. Dia., Abandon	Ft	186	\$48.32	\$8,987.52
06110.05	Storm Sewer Pipe, 18 In. Dia., Abandon	Ft	280	\$57.24	\$16,027.20
06120.03	Storm Sewer Pipe, 12 In. Dia., Rem	Ft	559	\$91.14	\$50,947.26
06120.05	Storm Sewer Pipe, 18 In. Dia., Rem	Ft	415	\$100.59	\$41,744.85
06120.07	Storm Sewer Pipe, 24 In. Dia., Rem	Ft	23	\$123.28	\$2,835.44
06140.00	Storm Sewer Structure, Rem	Ea	22	\$2,178.49	\$47,926.78
06160.01	Storm Structure Cover	Ea	13	\$1,543.85	\$20,070.05
06160.02	Storm Structure Cover, Adjust	Ea	89	\$2,520.63	\$224,336.07
06180.02	Underdrain, Subgrade, 6 In.	Ft	100	\$99.13	\$9,913.00
06220.01	DS_Infiltration Trench	Ft	490	\$323.07	\$158,304.30
Water Mains					
07000.01	4 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	101	\$213.11	\$21,524.11
07000.02	6 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	126	\$238.24	\$30,018.24
07000.03	8 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	36	\$341.41	\$12,290.76
07000.05	12 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	1,585	\$320.13	\$507,406.05
07001.01	16 In., PC 250 DIP w/polywrap, SD-TD-1	Ft	195	\$383.02	\$74,688.90
07010.02	6 In. 45° DIP Bend	Ea	14	\$1,178.77	\$16,502.78
07011.01	8 In. 90° DIP Bend	Ea	2	\$1,525.06	\$3,050.12
07011.02	8 In. 45° DIP Bend	Ea	2	\$1,430.90	\$2,861.80
07013.01	12 In. 90° DIP Bend	Ea	4	\$2,381.93	\$9,527.72
07013.02	12 In. 45° DIP Bend	Ea	54	\$1,867.95	\$100,869.30
07013.03	12 In. 22.5° DIP Bend	Ea	2	\$1,943.16	\$3,886.32
07013.04	12 In. 11.25° DIP Bend	Ea	2	\$1,989.76	\$3,979.52
TOTAL THIS PAGE (BF-2)					\$1,937,407.89

ITEM NUMBER	LEGEND	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
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Original Schedule of Pricing - VOID

E. Schedule of Pricing/Cost – 20 Points

Company:

Project: Ann Street Improvements

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Water Mains (Continued)					
07014.01	16 In. 90° DIP Bend	Ea	4	\$5,495.15	\$21,980.60
07014.02	16 In. 45° DIP Bend	Ea	8	\$4,539.98	\$36,319.84
07016.02	DS_4 In. 45° DIP Bend	Ea	6	\$1,014.10	\$6,084.60
07020.03	8 In. X 6 In. DIP Reducer	Ea	3	\$1,251.94	\$3,755.82
07020.07	12 In. X 4 In. DIP Reducer	Ea	1	\$1,725.19	\$1,725.19
07020.08	12 In. X 6 In. DIP Reducer	Ea	4	\$1,592.03	\$6,368.12
07020.09	12 In. X 8 In. DIP Reducer	Ea	2	\$1,691.40	\$3,382.80
07020.14	16 In. X 12 In. DIP Reducer	Ea	2	\$2,925.42	\$5,850.84
07020.30	DS_16 in. x 14 in. DIP Reducer	Ea	2	\$3,678.01	\$7,356.02
07030.11	12 In. X 12 In. X 4 In. DIP Tee	Ea	4	\$2,926.53	\$11,706.12
07030.12	12 In. X 12 In. X 6 In. DIP Tee	Ea	4	\$2,850.65	\$11,402.60
07030.13	12 In. X 12 In. X 8 In. DIP Tee	Ea	2	\$3,147.07	\$6,294.14
07030.15	12 In. X 12 In. X 12 In. DIP Tee	Ea	6	\$3,394.95	\$20,369.70
07030.17	16 In. X 16 In. X 8 In. DIP Tee	Ea	1	\$5,332.89	\$5,332.89
07030.18	16 In. X 16 In. X 12 In. DIP Tee	Ea	1	\$5,954.49	\$5,954.49
07030.20	16 In. X 16 In. X 16 In. DIP Tee	Ea	2	\$6,910.54	\$13,821.08
07050.01	Gate Valve in Box, 6 In.	Ea	5	\$3,452.71	\$17,263.55
07050.04	Gate Valve in Box, 12 In.	Ea	3	\$6,487.79	\$19,463.37
07050.05	Gate Valve in Box, 16 In.	Ea	2	\$16,639.53	\$33,279.06
07050.11	DS_Gate Valve in Box, 4 In.	Ea	4	\$3,083.98	\$12,335.92
07051.01	DS_PCCP Gate Valve in Box, 12 In.	Ea	1	\$14,509.27	\$14,509.27
07060.04	Gate Valve in Well, 12 In.	Ea	7	\$14,554.05	\$101,878.35
07080.00	Excavate & Backfill For Water Service Tap and Lead	Ft	132	\$123.97	\$16,364.04
07091.00	Water Structure Cover, Adjust	Ea	1	\$2,015.84	\$2,015.84
07100.00	Fire Hydrant Assembly, Complete	Ea	3	\$12,667.03	\$38,001.09
07102.00	Fire Hydrant Assembly, Rem	Ea	3	\$3,214.22	\$9,642.66
07110.01	Sacrificial Anode, 17-pound	Ea	9	\$1,020.53	\$9,184.77
07110.02	Sacrificial Anode, 32-pound	Ea	2	\$1,052.69	\$2,105.38
07120.00	Gate Box, Adjust	Ea	6	\$1,229.57	\$7,377.42
07130.01	Temporary Water Main Line Stop, 8 In. or less	Ea	13	\$14,512.56	\$188,663.28
07130.08	DS_Temporary Water Main Line Stop, 14 In.	Ea	1	\$22,515.14	\$22,515.14
07131.00	Temporary Water Main Line Stop, Additional Rental Day	Ea	6	\$1,101.28	\$6,607.68
07140.02	Water Main Pipe, 6 In. Dia., Abandon	Ft	1,525	\$22.93	\$34,968.25
07140.06	Water Main Pipe, 14 In. Dia., Abandon	Ft	131	\$57.10	\$7,480.10
07150.02	Water Main Pipe, 6 In. Dia., Rem	Ft	180	\$165.50	\$29,790.00
07150.03	Water Main Pipe, 8 In. Dia., Rem	Ft	40	\$166.82	\$6,672.80
07150.05	Water Main Pipe, 12 In. Dia., Rem	Ft	25	\$182.28	\$4,557.00
07150.06	Water Main Pipe, 14 In. Dia., Rem	Ft	25	\$182.28	\$4,557.00
07170.02	Gate Valve in Box, 6 In. Dia., Rem	Ea	4	\$1,144.26	\$4,577.04
07170.03	Gate Valve in Box, 8 In. Dia., Rem	Ea	2	\$1,144.26	\$2,288.52
07180.02	Gate Valve in Well, 6 In. Dia., Abandon	Ea	2	\$1,548.23	\$3,096.46
07190.02	Gate Valve in Well, 6 In. Dia., Rem	Ea	2	\$2,843.93	\$5,687.86
07200.01	DS_Insulation Board, 2-inch	Sft	240	\$12.31	\$2,954.40
Streets, Driveways, & Sidewalks					
08000.00	Subbase, CIP	Cyd	445	\$67.48	\$30,028.60
TOTAL THIS PAGE (BF-3)					\$805,569.70

ITEM NUMBER	LEGEND	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
Streets, Driveways, & Sidewalks (Continued)					
08010.02	Aggregate Base, 4 In., 21AA, CIP	Syd	12	19.29	\$231.48

Original Schedule of Pricing - VOID

E. Schedule of Pricing/Cost – 20 Points

Company:

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08010.03	Aggregate Base, 6 In., 21AA, CIP	Syd	1,590	\$20.26	\$32,213.40
08010.03	Aggregate Base, 8 In., 21AA, CIP	Syd	7,370	\$23.32	\$171,868.40
08050.00	Geotextile Separator Fabric	Syd	314	\$3.33	\$1,045.62
08051.00	Geotextile Stabilization Fabric	Syd	112	\$20.02	\$2,242.24
08070.11	HMA, 3EML	Ton	931	\$209.08	\$194,653.48
08070.15	HMA, 4EML	Ton	630	\$239.38	\$150,809.40
08070.19	HMA, 5EML	Ton	740	\$227.26	\$168,172.40
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	2,167	\$44.05	\$95,456.35
08120.01	Conc, Driveway Opening, Type M	Ft	855	\$44.05	\$37,662.75
08130.01	Conc, Sidewalk, 4 In.	Sft	540	\$8.81	\$4,757.40
08131.01	Conc, Sidewalk, Drive Approach, or Ramp, 6 In.	Sft	4,914	\$11.74	\$57,690.36
08131.02	Conc, Sidewalk, Drive Approach, or Ramp, 8 In.	Sft	15,351	\$12.49	\$191,733.99
08132.01	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early	Sft	100	\$32.30	\$3,230.00
08132.02	Conc, Sidewalk, Drive Approach, or Ramp, 8 In., High Early	Sft	100	\$32.30	\$3,230.00
08140.01	Brick Pavers, Sidewalk, Rem and Reinstall	Sft	705	\$22.03	\$15,531.15
08140.01	DS_Perforated Concrete Base, 6 In.	Sft	2,826	\$8.81	\$24,897.06
08140.02	DS_Brick Pavers, New	Sft	2,826	\$36.71	\$103,742.46
08140.03	DS_Salvaged Brick Pavers	Sft	90	\$22.03	\$1,982.70
08150.00	Detectable Warning Surface	Ft	180	\$73.42	\$13,215.60
08151.00	DS_Tactile Directional Indicator	Ft	128	\$117.47	\$15,036.16
08150.00	DS_Pavt Mrkg, Polymer Cement Surface, Bike Lane, Green	Sft	72	\$96.66	\$6,959.52
08200.07	Pavt Mrkg, Polyurea, 12 In., Crosswalk	Ft	1,224	\$13.81	\$16,903.44
08200.09	Pavt Mrkg, Polyurea, 24 In., Stop Bar	Ft	264	\$31.47	\$8,308.08
08200.11	Pavt Mrkg, Polyurea, 4 In., White	Ft	50	\$3.85	\$192.50
08200.12	Pavt Mrkg, Polyurea, 4 In., Yellow	Ft	2,112	\$3.85	\$8,131.20
08200.13	Pavt Mrkg, Polyurea, 6 In., White	Ft	48	\$6.91	\$331.68
08251.00	Recessing Pavt Mrkg, Longit	Ft	2,112	\$3.06	\$6,462.72
08252.00	Recessing Pavt Mrkg, Transv	Sft	496	\$8.88	\$4,404.48
08300.00	Monument Box, Adjust	Ea	1	\$1,398.82	\$1,398.82

Lighting and Electrical

09000.02	Conductors, No. 6AWG	Ft	4,363	\$4.44	\$19,371.72
09011.01	Conduit, Schedule 80 PVC, 2 In., Qty 2	Ft	1,570	\$41.97	\$65,892.90
09030.01	Handhole Assembly, 17 In. X 30 In. x 18 In.	Ea	13	\$2,623.27	\$34,102.51
09030.01	DS_Handhole, Adjust	Ea	10	\$282.50	\$2,825.00
09040.03	DS_Electrical Cabinet	Ea	2	\$32,286.33	\$64,572.66
09050.00	Foundation, Light Pole	Ea	13	\$3,874.36	\$50,366.68
09060.00	Foundation, Light Pole, Rem	Ea	2	\$968.59	\$1,937.18
09090.01	Light Pole, DDA	Ea	17	\$21,793.28	\$370,485.76
09112.01	Light Fixture, Decorative Globe	Ea	24	\$4,156.87	\$99,764.88

Landscaping

10000.02	Tree, Large, B&B	Ea	19	\$2,202.54	\$41,848.26
10010.03	Plant, Gal	Ea	1,230	\$66.07	\$81,266.10
10040.00	Landscape Maintenance and Warranty, 1 Year	LS	1	\$11,012.73	\$11,012.73
10060.00	Turf Restoration	Syd	347	\$12.01	\$4,167.47
10051.01	DS_Irrigation System	LS	1	\$36,709.09	\$36,709.09

TOTAL THIS PAGE (BF-4)

\$2,226,817.78

ITEM NUMBER	LEGEND	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
Landscaping (Continued)					
10061.00	DS_Planting Soil and Mulch	Cyd	383	\$110.13	\$42,179.79
10100.01	DS_Bike Hoop, Surface Mount	Ea	14	\$4,405.09	\$61,671.26

Original Schedule of Pricing - VOID

E. Schedule of Pricing/Cost – 20 Points

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10100.02	DS_Urban Bench	Ea	2	\$7,341.81	\$14,683.62
10100.03	DS_DDA Planter Curb	LF	960	\$110.13	\$105,724.80
10100.04	DS_Tree Grate, 4 ft. x 8 ft.	Ea	14	\$7,341.81	\$102,785.34
10100.05	DS_Trash Receptacle	Ea	4	\$4,405.09	\$17,620.36
TOTAL THIS PAGE (BF-5)					<u>\$344,665.17</u>

TOTAL FROM PAGE BF-1: \$1,677,747.87

TOTAL FROM PAGE BF-2: \$1,937,407.89

TOTAL FROM PAGE BF-3: \$805,569.70

TOTAL FROM PAGE BF-4: \$2,226,817.78

TOTAL FROM PAGE BF-5: \$344,665.17

TOTAL BASE BID: \$6,992,208.41



Bailey Excavating, Inc.



1073 TORO DRIVE – JACKSON, MI 49201
PHONE (517) 750-3030

Authorized Negotiator / Negotiable Elements (Alternates)

- Jacob W. Bailey, Vice President / Project Estimator / Project Supervisor

Cell: 517-740-0371

jacobbailey@bailey-excavating.com

- John W. Bailey, President / Owner

Cell: 517-206-7284

jbailey@bailey-excavating.com

- Mark E. Magner, Project Manager

Cell: 517-206-6975

markmagner@bailey-excavating.com

- Rhonda M. Denny, Executive Administrator

Cell: 734-320-0942

rhondadenny@bailey-excavating.com

- Rhonda L. Blair, Financial Manager

Cell: 517-206-0790

rhondablair@bailey-excavating.com

Sincerely,

Rhonda M. Denny

Executive Administrator

An Equal Opportunity Employer

CONTRACT

THIS CONTRACT is between the CITY OF ANN ARBOR, a Michigan Municipal Corporation, 301 East Huron Street, Ann Arbor, Michigan 48104 ("City") and Bailey Excavating, Inc. ("Contractor") a Michigan corporation, 1073 Toro Drive, Jackson, Michigan 49201.

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 **Ann Street Improvements; RFP 26-03** 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)
Vendor Conflict of Interest Form
Prevailing Wage Declaration of Compliance Form (if applicable)
Bid Forms
Contract and Exhibits
Bonds
General Conditions
Standard Specifications
Detailed Specifications
Plans
Addenda

Davis Bacon Wage determination:
Heavy, MI20250157, Published
01/02/2026

Highway, MI20250001, Published
01/09/2026

Geotechnical Data Packages:
Proposed Water Main & Pavement
Improvements Various Streets
TEC Report: 62942

2025 Miscellaneous Utilities & Ann
Street Water Main and Resurfacing
MSG Project No.: 401.2300021.000

ARTICLE II - Definitions

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

Project means **Ann Street Improvements, RFP 26-03**

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: **Nicholas Hutchinson, PE** whose job title is **City Engineer**. 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 **Jacob Bailey** 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 the dates specified in the Project Schedule and Payment Detailed Specification.
- (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 \$2,000 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:

Six million, three hundred twelve thousand, seven hundred eighty and 85/100 Dollars (\$6,312,780.85)

- (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.

The Downtown Development Authority of the City of Ann Arbor is a third-party beneficiary of 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, the Downtown Development Authority of the City of Ann Arbor, and their respective 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 or the Downtown Development Authority of the City of Ann Arbor for losses or damages caused by or resulting from the City's or the Downtown Development Authority of the City of Ann Arbor'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.

BAILEY EXCAVATING, INC.

By: _____
Name: _____
Title: _____
Date: _____

CITY OF ANN ARBOR

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: _____

PERFORMANCE BOND

- (1) _____ (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:

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 4, 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 29th DAY OF January, 2026.

Bailey Excavating, Inc.

Bidder's Name



Authorized Signature of Bidder

1073 Toro Dr., Jackson, MI 49201

Official Address

Jacob W. Bailey

(Print Name of Signer Above)

(517) 750-3030

Telephone Number

jacobbailey@bailey-excavating.com
rhondadenny@bailey-excavating.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 Michigan _____, for whom Jacob W. Bailey _____, bearing the office title of Vice President / Estimator, 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 _____ whom _____ bearing the title of _____ 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



Date January 29th, 2026

(Print) Name Jacob W. Bailey

Title Vice President / Estimator

Company:

Bailey Excavating, Inc.

Address:

1073 Toro Dr., Jackson, MI 49201

Contact Phone (517) 750-3030

Fax () _____

Email jacobbailey@bailey-excavating.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 be deemed a material breach of the terms of the contract and grounds for termination of same by the City.

Bailey Excavating, Inc.

Company Name

Signature of Authorized Representative

1/29/2026

Date

Jacob W. Bailey - Vice President / Estimator

Print Name and Title

1073 Toro Dr., Jackson, MI 49201

Address, City, State, Zip

(517) 750-3030 / jacobbailey@bailey-excavating.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

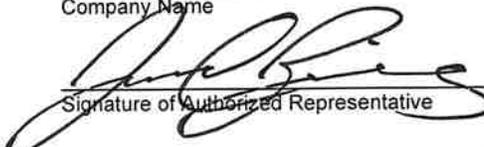
Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (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.

Bailey Excavating, Inc.
 Company Name

1073 Toro Dr.
 Street Address


 Signature of Authorized Representative

1/29/2026
 Date

Jackson, MI 49201
 City, State, Zip

Jacob W. Bailey - Vice President / Estimator
 Print Name and Title

(517) 750-3030
jacobbaily@bailey-excavating.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**



ATTACHEMENT 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 <hr/> <input type="checkbox"/> Interest in vendor's company <input type="checkbox"/> Other (please describe in box below)

*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:		
Bailey Excavating, Inc.	(517) 750-3030	
Vendor Name	Vendor Phone Number	
	1/29/2026	Jacob W. Bailey
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.

Bailey Excavating, Inc.

Company Name

1/29/2026

Signature of Authorized Representative

Date

Jacob W. Bailey - Vice President / Estimator

Print Name and Title

1073 Toro Dr., Jackson, MI 49201

Address, City, State, Zip

(517) 750-3030 / jacobbailey@bailey-excavating.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)	(b)	(c)	(d) DAY AND DATE							(e)	(f)	(g)	(h)	(i)	(j) DEDUCTIONS						(k)		
			HOURS WORKED ON PROJECT												TOTAL HOURS ON PROJECT	PROJECT RATE OF PAY	PROJECT RATE OF FRINGE PAY	GROSS PROJECT EARNED	GROSS WEEKLY EARNED	TOTAL WEEKLY HOURS WORKED ALL JOBS		FICA	FEDERAL
EMPLOYEE INFORMATION	WORK CLASSIFICATION	Hour Type								0			\$0.00									\$0.00	\$0.00
NAME:										0			\$0.00									\$0.00	\$0.00
ETH#GEN: ID #:	GROUP/CLASS #:	S								0			\$0.00									\$0.00	\$0.00
NAME:										0			\$0.00									\$0.00	\$0.00
ETH#GEN: ID #:	GROUP/CLASS #:	S								0			\$0.00									\$0.00	\$0.00
NAME:										0			\$0.00									\$0.00	\$0.00
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NAME:										0			\$0.00									\$0.00	\$0.00
ETH#GEN: ID #:	GROUP/CLASS #:	S								0			\$0.00									\$0.00	\$0.00
NAME:										0			\$0.00									\$0.00	\$0.00

Date _____

I, _____ (Name of Signatory Party) _____ (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

_____ on the _____ (Contractor or Subcontractor)
 _____; that during the payroll period commencing on the _____ (Building or Work)
 _____ day of _____, _____, and ending the _____ day of _____, _____,
 all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

_____ from the full _____ (Contractor or Subcontractor)

weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

- in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

- Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION

REMARKS:

NAME AND TITLE	SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.

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 (Modified)

- (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 and the Downtown Development Authority of the City of Ann Arbor 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 and the Downtown Development Authority of 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 or the Downtown Development Authority of the City of Ann Arbor'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 and the Downtown Development Authority of 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 or the Downtown Development Authority of the City of Ann Arbor'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 and the Downtown

Development Authority of the City of Ann Arbor may possess, including any self-insured retentions the City and the Downtown Development Authority of the City of Ann Arbor may have; and any other insurance the City and the Downtown Development Authority of the City of Ann Arbor 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 and the Downtown Development Authority of the City of Ann Arbor 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:

<http://www.a2gov.org/departments/engineering/Pages/Engineering-and-Contractor-Resources.aspx>

DETAILED SPECIFICATIONS

Project Schedule and Payment
Project Coordination
Gate Valve in Box, 4 In.
Water Main Fittings
PCCP Gate Valve-In-Box, 12 In.
Drainage Structures with Leaching Base (0-10' Deep)
Infiltration Trench
Insulation Board
Tactile Directional Indicator
Permanent Traffic Signs and Supports
Electrical Cabinet
Handhole, Adjust
Planting Soil and Mulch
Perforated Concrete Base, 6 In.
Sidewalk Unit Pavers
Bike Hoop, Surface Mount
Urban Bench
Trash Receptacle
DDA Raised Planter with Curb
Tree Grate, 4 ft. x 8 ft.
Trees and Plantings
Irrigation System
Parking Meter

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE AND PAYMENT

OHM:TJL:CSS

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12/15/2025

Description

Examination of Plans, Specifications, and Work Site

Bidders shall carefully examine the Bid Form, plans, specifications, and the work site until the Bidder 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.

The entire work under this Contract shall be completed in accordance with, and subject to, the scheduling requirements as outlined below, and all other requirements of the Contract Documents.

1. The Contractor shall begin the work of this project on **April 1, 2026**, and only upon 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.
2. This Contract requires, water main, stormwater improvements, road reconstruction, streetlights, streetscape improvements and irrigation work on Ann Street between First Street and Fifth Avenue. The Contract shall be completed in three (3) phases and shall be substantially completed within **two hundred and twenty-eight (228) consecutive calendar days** as outlined below.
3. The work shall be sequenced to meet the schedule requirements identified. Contractor shall determine the exact sequence of work at the project locations and clearly note any deviations from the sequence identified below.
 - a. Phase 1 of the Ann Street Improvements project is the complete water main and storm sewer installation, road construction (including pavement markings) and streetscape improvements on Ann Street between First Street and Main Street (not including Main Street intersection work) and shall be completed by no later than June 19, 2026.
 - b. Phase 2 of the Ann Street Improvements project is the complete work in the Main Street/Ann Street intersection including water main and storm sewer installation, streetscape improvements and the water main on Main Street. This work can start no earlier than July 20, 2026 (following the Ann Arbor Art Fair). Phase 2 shall be completed by August 22, 2026 to complete the intersection through the wearing course to allow traffic to be returned to Main Street.
 - c. Phase 3 of the Ann Street Improvements project is the complete water main installation, stormwater improvements, road construction (including pavement markings) and streetscape improvements on Ann Street from the east side of Main Street to Fifth Avenue. Phase 3 work is to begin after the completion of Phase 2, unless approved by the Engineer, and shall be substantially completed and open to vehicular and pedestrian traffic by November 15th, 2026. Substantial completion includes all items except landscaping warranty and maintenance. Final completion of

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE AND PAYMENT

OHM:TJL:CSS

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the overall project is June 1, 2027.

- The water main connection that requires the closure of 5th Avenue must be completed in as timely a manner as possible. After completion of the connection the road is to be repaired up to and including wearing course to facilitate opening the road back open.
- d. Sidewalk work can only occur on one side of the road at a time in order to maintain pedestrian access on Ann Street.
4. This schedule and phasing of work shall form the basis for bidding of the project. The Contractor may submit an alternative project timeline for Owner review that adheres to the general scheduling requirements previously identified.
5. 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: 7am – 8pm
- Saturday: 7am – 8pm; Notice given to City of Ann Arbor no less than 48 hours and no more than 5 days
- Sunday: Only with written approval from the City of Ann Arbor

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

- Memorial Day, from 3:00 p.m. Friday, May 22, 2026 through 7:00 a.m. Tuesday, May 26, 2026.
- Fourth of July, from 3:00 p.m. Thursday, July 2, 2026, through 7:00 a.m. Monday, July 6, 2026
- Art Fair, from Monday, July 13, 2026 through Sunday, July 19, 2026
- Labor Day, from 3:00 p.m. Friday, September 4, 2026 through 7:00 a.m. Tuesday, September 8, 2026
- Thanksgiving, from 3:00 p.m. Wednesday, November 25, 2026 through 7:00 a.m. Monday, November 30, 2026.

City Council approval is expected on or before **March 2, 2026**. The Contractor shall not begin the work without approval from the Project Engineer, and in no case before the receipt of the Notice to Proceed.

Contractor will be furnished with an electronic copy of the Contract, for his/her execution, before the aforementioned City Council meeting. The Contractor shall properly execute both copies of the Contract and return them, with the required Bonds and Insurance Certificate, to the City within ten (10) days.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE AND PAYMENT

OHM:TJL:CSS

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12/15/2025

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 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.

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, which are caused as a result of working in the dark.

Liquidated Damages

Failure to complete all work, including sub-phases, 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, **\$2,000.00** in Liquidated Damages, and not as a penalty, for delays in the completion of the work for each and every calendar day beyond the times for substantial completion as required by this Detailed Specification.

Substantial Completion shall include the installation of all utilities and streetscape improvements, HMA roadway pavement open to traffic including pavement markings and restoration. If restoration has not been installed, temporary erosion control measures such as staked in-place mulch blanket shall be installed. This work is included in the cost of **Turf Restoration**.

Liquidated Damages will be assessed until the required work is completed in the current construction season. If, with the Engineer's approval, work is extended beyond seasonal limitations, the assessment of Liquidated Damages will be discontinued until the work is resumed

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT SCHEDULE AND PAYMENT

OHM:TJL:CSS

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in the following construction season.

If the construction Contract is not completed within the specified calendar day period 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.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PROJECT COORDINATION

OHM:TJL:CSS

1 of 1

12/10/2025

Description

The Contractor shall be aware of other road construction work projects within the City of Ann Arbor.

The Contractor shall also be aware that other projects may be constructed within the City by other agencies or contractors that may affect work under this contract.

It is the Contractor's responsibility to coordinate efforts with other projects. It is the Contractor's responsibility to investigate other projects in the area with the City and County. Additional costs incurred by the Contractor resulting from conflict with another project will not be considered for additional compensation.

The Contractor shall not receive a time extension due to reasonable work delays resulting from other projects within the area. Refer to the Proposal for information on the required completion date and associated penalties.

The City of Ann Arbor has a large diameter sanitary sewer project located on Washington Street (First Street to Third Street) and First Street (Washington Street to Miller Avenue). This work is anticipated to be performed between January 2026 - September 2026.

DTE Gas has a gas main renewal project on Fourth Avenue from Packard to Ann Street planned for 2026.

The Contractor shall collaboratively coordinate with the City, DDA and Hands-On Museum regarding the relocation of the on-street bus staging area for the Hands-On Museum during the project.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
GATE VALVE IN BOX, 4 IN.

OHM:TJL:CSS

1 of 1

12/9/2025

a. Description. This work will consist of providing all labor, material, and equipment required to furnish and install 4-inch gate valve in box where shown and as detailed on the plans in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein, or as directed by the Engineer.

b. Materials.

Gate valves will be resilient wedge type, operate right with a 2-inch square opening nut, push-on by push-on only with restrained gaskets and meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications, including AWWA C509 or C515.

Approved gate valves are as follow:

1. American Flow Control Series 2500 Single Resilient Wedge with push-on ends
2. Clow Model 2638 Resilient Wedge Valve, F-6112
3. EJIW FlowMaster Resilient Wedge Valve, Tyton x Tyton
4. Mueller Series A-2361-61 Resilient Wedge Valve SL x SL for Field Lok gaskets
5. US Pipe USP1-61 Resilient Wedge Valve SLxSL for Field Lok gaskets

Valves boxes will be size D, screw type 3-piece, 5-1/4-shaft and a #6 base and meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications.

Approved valves boxes are as follows:

1. EJ 8560 Series
2. Tyler Union 6860, 32U (Heavy Duty)

c. Construction. The Contractor will install pipe fittings in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications.

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

Pay Item

Pay Unit

DS_Gate Valve in Box, 4 In Each

Payment for **DS_Gate Valve in Box, 4 In.** will be measured by each unit completely installed and will include all costs for labor, material, and equipment required to complete the work, including furnishing and installing gate valve and box with cover and adjusting the box and cover to final grade.

Payment for excavation and backfill will be included in payment for other water main pay items.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
WATER MAIN FITTINGS

OHM:TJL:CSS

1 of 1

12/9/2025

a. Description. This work will consist of providing all labor, material, and equipment required to furnish and install 4-inch ductile iron pipe (DIP) bends where shown and as detailed on the plans in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein, or as directed by the Engineer.

b. Materials. Pipe fittings will meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications, including the following:

ASTM/AWWA C110/A21.10 or C153/A21.53 with:

1. Cement mortar lining with seal coat per ANSI/AWWA C104/A21.4
2. Outside coating per ANSI/AWWA C151/A21.51
3. Polyethylene wrap meeting the requirements of ANSI/AWWA C105/A21.5
4. Restrained push-on rubber gasket joints per ANSI/AWWA C111/A21.11 (unless otherwise required)

c. Construction. The Contractor will install pipe fittings in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications.

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

<u>Pay Item</u>	<u>Pay Unit</u>
DS_4 In. 45° DIP Bend	Each
DS_16 In. x 14 In. DIP Reducer	Each

Payment for **DS_16 In. x 14 In. DIP Reducer and DS_4 In. 45° DIP Bend** will be measured by each unit completely installed and will include all costs for labor, material, and equipment required to complete the work, including furnishing and installing fittings, thrust blocks, joints, and polywrap.

Payment for excavation and backfill will be included in payment for other water main pay items.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PCCP GATE VALVE-IN-BOX, 12 IN.

OHM:TJL:CSS

1 of 2

12/15/2025

a. Description. This work will consist of providing all labor, material, and equipment required to remove existing, furnish and install a new 12-inch gate valve-in-box where shown and as detailed on the plans in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein, or as directed by the Engineer.

b. Materials.

Gate valves shall be resilient wedge type, operate right with a 2-inch square opening nut, push-on by push-on only with restrained gaskets and meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications, including AWWA C509 or C515.

Approved gate valves are as follows:

1. American Flow Control Series 2500 Single Resilient Wedge with push-on ends
2. Clow Model 2638 Resilient Wedge Valve, F-6112
3. EJIW FlowMaster Resilient Wedge Valve, Tyton x Tyton
4. Mueller Series A-2361-61 Resilient Wedge Valve SL x SL for Field Lok gaskets
5. US Pipe A-USP1-61 Resilient Wedge Valve SLxSL for Field Lok gaskets

Valves boxes will be size D, screw type 3-piece, 5-1/4" shaft and a #8 base and meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications.

Approved valves boxes are as follows:

1. EJ 8560 Series
2. Tyler Union 6860, 32U (Heavy Duty)

c. Construction. The Contractor will install pipe fittings in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications. This work consists of removing and replacing the existing 12 in. GVIB that is attached to a tapping sleeve located on the City's 30 in. water main located along Ann Street. The Contractor will be responsible to coordinate this work with Water Treatment Services and Public Works for the shutdown of the 30 in. water main to facilitate the valve replacement. The valve is connected to a tapping flange located as indicated on the plans.

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

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PCCP GATE VALVE-IN-BOX, 12 IN.

OHM:TJL:CSS

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12/15/2025

Pay Item

Pay Unit

DS_PCCP Gate Valve in Box, 12 In.....Each

Payment for **DS_PCCP Gate Valve in Box, 12 In.** will be measured by each unit completely installed and will include all costs for labor, material, and equipment required to complete the work, including excavating, disposing and removing the existing gate valve, furnishing and installing gate valve and box with cover and adjusting the box and cover to final grade.

Payment for excavation and backfill will be included in payment for other water main pay items.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
DRAINAGE STRUCTURES WITH LEACHING BASE (0-10' DEEP)

OHM:TJL:CSS

1 of 4

12/11/2025

a. Description. This work consists of providing all labor, materials, and equipment required to construct a storm sewer drainage structures with a leaching base where shown and as detailed on the plans in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications and Section 403 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, as shown on the plans, and as specified herein.

b. Submittal Requirements. The Contractor will submit to the Engineer for review and approval shop drawings in accordance with Section 104.02 of the Michigan Department of Transportation 2020 Standard Specifications for Construction for all materials related to drainage structures.

For each submittal or resubmittal, the Contractor will allow at least 14 calendar days from the date of the submittal to receive the Engineer's acceptance or request for revisions. The Engineer's comments will be incorporated into the submitted plans, calculations and descriptions. The Engineer's acceptance is required before beginning the work. Resubmittals will be reviewed and returned to the General Contractor within 14 calendar days. Required submittal revisions will not be a basis of payment for additional compensation, extra work, or an extension of contract time.

c. Materials. The materials used for this work will conform to Section 403.02 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as specified herein.

Storm sewer drainage structures will be constructed of precast reinforced concrete sections topped with an eccentric cone or, in situations in which it is not possible to install precast sections, concrete masonry units where approved by Engineer.

Precast reinforced concrete bases, bottom sections, manhole risers, grade adjustment rings, concentric cones, eccentric cones, and flat slab tops will conform to the requirements of ASTM C478. Joints on precast manholes used on all sanitary sewers will meet ASTM C443, rubber O-ring gasket.

All structures will be designed to accommodate HS-20 Live Load requirements as determined by a Professional Engineer licensed by the State of Michigan, regardless of where they are to be installed.

The Contractor will field verify inverts prior to fabricating precast units. No additional payment will be made to the Contractor for precast units that cannot be used due to existing inverts being different than shown on the plans, changes in vertical or horizontal alignment due to conditions found in the field, or similar unforeseen circumstances.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
DRAINAGE STRUCTURES WITH LEACHING BASE (0-10' DEEP)

OHM:TJL:CSS

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Concrete masonry units will conform to the requirements for concrete masonry units for catch basins and manholes, ASTM C139.

Concrete brick will conform to the requirements for concrete building brick, ASTM C55, Grade N-1.

Plastic coated manhole steps will be injection molded of copolymer, polypropylene, encapsulating a 1/2 inch grade 60 steel reinforcing bar. Plastic-coated manhole steps will meet the performance test described in ASTM C-478, Paragraph II, and will have an impact resistance of 300 ft.-lbs. with only minor deflection and no cracking or breaking. The steps will resist pull out forces of 1,500 lbs.

Backfill will be MDOT class II granular material only and will be compacted to 95% of its maximum unit weight in maximum 10-inch lifts.

Structures will be precast reinforced concrete sections of the type specified in the details shown on the plans.

Leaching base aggregate will be 6AA limestone and meet the requirements of section 902 of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Geotextile separator will meet the requirements of section 910 of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Geogrid will be triaxle type and suited for use with 6AA aggregate.

d. Construction. The Contractor will construct drainage structures in accordance with Section 403.03 of the Michigan Department of Transportation 2020 Standard Specifications for Construction and the City of Ann Arbor 2025 Public Services Standard Specifications, except as specified herein.

Excavation will be carried to the depth and width required to permit the construction of the required base, including aggregate. The excavation width will be greater than the base. The bottom of the excavation will be trimmed to a uniform horizontal bed and be completely dewatered before any aggregate or concrete is placed therein.

The Contractor will install geogrid and geotextile separator in a layer that spans the extents of the base, install 24 inches of aggregate base in a uniform layer that spans the extents of the base, and top the aggregate base with a second layer of geogrid and geotextile separator.

CITY OF ANN ARBOR
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FOR
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The geogrid and geotextile layers will be flush with the subgrade and aggregate base.

Circular precast manhole sections will be constructed in accordance with the details as shown on the plans. Manhole stack units will be constructed on precast concrete bases or precast concrete bottom sections. Bases or bottom sections will be perforated to permit exfiltration into aggregate base.

Precast cone sections will be constructed in accordance with the details as shown on the plans. These units will be eccentric for all manholes, precast or block. All structures will be topped with a minimum of one, and a maximum of three, 2" tall, brick or precast adjustment courses.

Manholes, inlets, and structures will be constructed within 2-1/2 inches of plumb. Frames and covers will be set in full mortar beds and pointed on the structure interior to a smooth, brushed finish. The covers will be set flush with sidewalk, roadway pavement, or ground surfaces. The Engineer will be notified prior to the final paving to allow inspection of the final casting adjustments for all utility structures.

Sewer pipes will extend into structures a minimum of 1/2 inch and a maximum of 3 inches.

All necessary adjustments for new structures will be included in the cost of the structure.

Manhole steps, installed where required, will be spaced 16 inches.

The Contractor will backfill drainage structures only after the exterior mortar coating has cured and approved by the Engineer.

The Contractor will ensure that the completed drainage structure is clean and free of any debris from construction activities.

The Contractor will furnish and install structure covers in accordance with the details on the plans the City of Ann Arbor 2025 Public Services Standard Specifications.

The Contractor will install external seals on all manhole chimneys.

Compaction of 6AA Aggregate

The Contractor will compact 6AA aggregate. The aggregate cannot be accurately tested

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
DRAINAGE STRUCTURES WITH LEACHING BASE (0-10' DEEP)

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with a nuclear gauge, therefore the Contractor will develop a procedural specification at the time of construction utilizing a required number of passes based on the Contractor's compaction equipment and visual movement of the aggregate. The Engineer will approve the Contractor's method for compaction.

e. Measurement and Payment. The completed work, as described, will be paid at the contract unit price for the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Storm Manhole, 48 In. Dia., with Leaching Base (0-10' deep).....	Each
DS_Storm Single Inlet, 24 In. Dia., with Leaching Base (0-10' deep).....	Each

Payment for **DS_Storm Manhole, 48 In. Dia., with Leaching Base (0-10' deep)** will be paid by each complete unit installed and will include all costs for labor, materials, and equipment required for all necessary excavation, disposing of surplus excavated materials, frame and cover, backfilling, chimney seals, adjusting frame and cover to finished elevation, and constructing the complete structure with sump and leaching base, regardless of depth, pipe connections, and structure cleaning.

Payment for **DS_Storm Single Inlet, 24 In. Dia., with Leaching Base (0-10' deep)** will be paid by each complete unit installed and will include all costs for labor, materials, and equipment required for all necessary excavation, disposing of surplus excavated materials, frame and cover, backfilling, chimney seals, adjusting frame and cover to finished elevation, and constructing the complete structure with sump and leaching base, regardless of depth, pipe connections, and structure cleaning.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
INFILTRATION TRENCH

OHM:TJL:CSS

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12/16/2025

a. Description. This work consists of providing all labor, materials, and equipment required to construct an infiltration trench where shown and as detailed on the plans in accordance with City of Ann Arbor 2025 Public Services Standard Specifications and the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as modified herein, or as directed by the Engineer.

b. Materials.

Geotextile separator will be non-woven and meet the requirements of section 910.03.C of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Aggregate bedding and fill will be 6AA limestone and meet the requirements of section 902 of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Granular material will be class II and meet the requirements of section 902 of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Pipe and fittings will be 18-inch perforated or solid dual wall corrugated high-density polyethylene (HDPE) and meet the requirements of AASHTO M-294.

Mortar will be type R-2 and meet the requirements of section 1005 of the Michigan Department of Transportation 2020 Standard Specifications for Construction.

c. Construction.

The Contractor will perform the following sequence of construction to complete this work:

1. Excavate to the limits shown on the plans and haul away and dispose of spoils.
2. Notify the Engineer and allow the Engineer time to inspect the existing subgrade. The Engineer may direct subgrade undercutting.
3. Place geotextile separator to be smooth and taut, flush with the subgrade surfaces, and plan to completely enclose (wrap) the entirety of the trench with a lap joint accounting for pipe and backfill. Lap joints will be a minimum of 24 inches.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
INFILTRATION TRENCH

OHM:TJL:CSS

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4. Notify the Engineer and allow the Engineer time to inspect the geotextile to ensure it is installed properly and free of perforations, frays, or other damage. Remove and reset geotextile and/or remove and replace geotextile at the direction of the Engineer at no additional cost to the Owner.
5. Place 12 inches of 6A aggregate compacted to the satisfaction of the engineer.
6. Install pipe and drainage structures. Install solid pipe and perforated pipe where indicated on the plans. Connect pipe to drainage structures with mortar joints. Join all pipe sections with couplers.
7. Notify the Engineer and allow the Engineer time to inspect the pipe to ensure it is properly installed, free of humps or bellies, and free of damage. Remove and reset and/or remove and replace pipe and/or fittings at the direction of the Engineer at no additional cost to the Owner.
8. Backfill with 6AA aggregate in 12-inch layers compacted to the satisfaction of the engineer. Finish the top layer to be consistently smooth.
9. Completely enclose the finished aggregate surface with geotextile separator and ensure a minimum 24-inch lap joint.
10. Backfill with class II granular material in 12-inch layers compacted to a minimum of 95% of the maximum density to establish the proposed subgrade elevation.

Compaction of 6AA Aggregate

The Contractor will compact 6AA aggregate. The aggregate cannot be accurately tested with a nuclear gauge, therefore the Contractor will develop a procedural specification at the time of construction utilizing a required number of passes based on the Contractor's compaction equipment and visual movement of the aggregate. The Engineer will approve the Contractor's method for compaction.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
INFILTRATION TRENCH

OHM:TJL:CSS

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d. Measurement and Payment. The completed work, as described, will be paid for at contract unit prices for the following pay items:

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Infiltration Trench	Foot

Payment for **DS_Infiltration Trench** will be measured by the linear foot for the completed work and will include all costs for labor, materials, and equipment required to complete all work described herein, including excavation, hauling, disposal, furnishing and installing geotextile, furnishing and installing perforated HDPE pipe, and furnishing, installing, and compacting granular material and aggregate.

Drainage structures and subgrade undercutting will be paid for separately.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
INSULATION BOARD

OHM:TJL:CSS

1 of 1

12/15/2025

a. Description. This work consists of insulating the proposed or existing sanitary sewer, water main, or service lines at locations shown on the plans, or determined at the time of construction, to protect against the penetration of frost. This work includes furnishing and placing insulation board to the prepared grade. It also includes excavating, backfilling, shaping, and compaction necessary to install the insulation board.

b. Materials. Furnish insulation that is rigid, extruded polystyrene board meeting *ASTM C578, Type VII*, having a nominal board thickness of 2 inches, minimum compressive strength of 60 psi (*ASTM D1621*), minimum R value of 5.0 degree Fahrenheit square-foot hour per British thermal unit ($^{\circ}\text{F ft}^2 \text{ h/BTU}$) per inch and 0.1 percent max water absorption (*ASTM C272/C272M*). Furnish the board in minimum 4-foot by 8-foot sheets unless otherwise approved by the Engineer, and of the cumulative thickness as indicated on the plans or as determined at the time of construction and approved by the Engineer. Trim the edges square and ensure there is not more than 1/4-inch bow measured against a straightedge.

Furnish Class II granular backfill in accordance with subsection 902.07 of the 2020 MDOT Standard Specifications for Construction.

c. Construction. It is necessary to insulate the sanitary sewer, water main, or service lines wherever indicated on the plans or determined at the time of construction. Hand dig as necessary to verify the location of the sanitary sewer and water main. Place the insulation board on a prepared grade 12 inches above the top of the pipe, or a minimum of 4 feet below finished grade and fastened with skewers or other means approved by the Engineer, so that backfill compaction requirements of the trench can be met. Trim the surface of the grade to a smoothness of $\pm 3/4$ inch per 10 feet. With approval of the Engineer, the specified smoothness may be obtained by the placement of a thin layer of granular material Class II. Ensure where necessary to place more than one layer of insulation board, the joints are staggered. Ensure backfill and compaction equipment is approved by the Engineer.

Asphalt or other material having a temperature exceeding 150 °F must not be placed in direct contact with the insulation board.

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

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Insulation Board, 2-inch.....	Square Foot

DS_Insulation Board, 2-inch will be measured by the square foot of insulation completely installed and includes furnishing and installing the insulation board complete including fasteners and any required granular material Class II. Also, the Contractor is responsible for hand digging to verify the location and elevation of the water main or service line.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
TACTILE DIRECTIONAL INDICATOR

OHM:TJL:CSS

1 of 1

12/9/2025

a. Description. This work consists of providing all labor, materials, and equipment required to furnish and install Armor-Tile Detectable Directional Tiles according to the manufacturer's instructions.

b. Materials. Tactile Direction Indicators shall be EJ Durlast Directional Detectable Warning ADA Plate, Black or approved equal.

Embedment anchors and hardware shall be as noted on the plans.

c. Construction. The Contractor shall install Tactile Direction Indicators in areas indicated on the plans or at the direction of the Engineer according to the manufacturer's specifications for installation.

The installer shall be well-qualified and experienced who has successfully completed tile installations similar in material, design, and extent to what is required for this work.

d. Measurement and Payment. The completed work, as described, will be measured, and paid for at the Contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Tactile Directional Indicator	Foot

Payment for **DS_Tactile Directional Indicator** will include all costs for labor, materials, and equipment costs to perform the work as described herein. The completed work will be measured by the foot, taken at the mid-point of the tile.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PERMANENT TRAFFIC SIGNS AND SUPPORTS

OHM:TJL

1 of 3

12/2/2025

a. Description. This work consists of providing all labor, materials, and equipment required to furnish permanent traffic signs and supports to the City of Ann Arbor and coordinating with the City for installation and removing signs and associated supports and foundations in accordance with the Michigan Department of Transportation (MDOT) 2020 Standard Specifications for Construction, as shown on the plans, and as specified herein.

b. Materials. All materials required for the proposed permanent regulatory signage as shown on the plans shall be delivered to the City of Ann Arbor Public Works, W.R. Wheeler Service Center, 4251 Stone School Road, Ann Arbor, MI 48108. The Contractor shall be responsible for all coordination with the City of Ann Arbor Signs and Signals Supervisor at 734.794.6361 for delivery. The Contractor will not be entitled to extra compensation due to delays caused by City of Ann Arbor personnel.

The Contractor will furnish materials in accordance with the following sections of the Michigan Department of Transportation Standard Specifications for Construction, except where otherwise noted below:

Anchor bolts, nuts, and washers – materials as specified in section 908

Sign, Type IIIB – materials as specified in section 919

All materials for **Perforated Steel Square Tube Breakaway System, Modified** follow MDOT Standard Detail SIGN-207-D, and as noted below for the post, concrete base and anchor. The following materials shall be Unistrut or approved equal and shall include the following:

1. Post: exterior dimensions measure 2" x 2" square x 10', 14 gauge with 7/16" pre-punched holes, corner welded. Square tubing to allow for mounting on all four sides. Steel to conform to ASTM A1011 Grade 50, galvanizing to meet ASTM A-653. Must be able to mount signs with drive rivets to provide tamper resistance. Provide a smooth unbroken appearance for posts and anchors. Inline zinc coating to comply with AASHTO M-120 standard. Breakaway installation to meet FHWA approval standard.
2. Concrete Mount Base: interior dimensions measure 2" x 2" square x 6", 12 Gauge sleeve welded to 6"x6" square, 1/4" thick plate with four 3/4" holes. Centerpoint of each hole shall be 7/8" from each side of the plate. Edge of each hole shall be 1/2" from each side of plate.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
PERMANENT TRAFFIC SIGNS AND SUPPORTS

OHM:TJL:CSS

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3. Anchor: exterior dimensions measure 2" x 2" square x 3', 7 Gauge sleeve.

c. Construction. The Contractor will furnish signs, sign supports, and hardware in accordance with Section 810 of the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as modified herein.

Remove signs of the type indicated and sign supports in accordance with section 810.03.U Michigan Department of Transportation 2020 Standard Specifications for Construction.

Remove foundations for perforated steel square tube breakaway systems in accordance with section 810.03.V Michigan Department of Transportation 2020 Standard Specifications for Construction.

d. Measurement and Payment. The completed work, as described, will be paid for at the contract unit price for the following contract items (pay items):

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Sign, Type III, Rem.....	Each
DS_Fdn, Perforated Steel Square Tube Breakaway System, Rem.....	Each
DS_Ground Mtd Sign Support, Rem.....	Each
DS_Sign, Type IIIB, Modified.....	Square Foot
DS_Perforated Steel Square Tube Breakaway System, Modified.....	Each
DS_Post, Steel, 3 Lb.....	Foot

Payment for permanent Reflective Panel for **Sign, Type III, Rem, Fdn, Perforated Steel Square Tube Breakaway System, Rem, and Ground Mtd Sign Support, Rem** and removal of associated hardware will be measured by each for units completely removed and will include all costs for labor, material, and equipment required to remove, haul away, and dispose of signs, supports, and hardware.

Payment for permanent **Sign, Type III, Modified**, supports, and associated hardware will be measured by the square foot for signs furnished and will include all costs for labor, material, and equipment required to furnish permanent signs and supports materials to the City as shown on the plans and as specified herein.

Payment for permanent **DS_Post, Steel, 3 Lb. and Perforated Steel Square Tube Breakaway System, Modified**, supports, and associated hardware will be measured by

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PERMANENT TRAFFIC SIGNS AND SUPPORTS

OHM:TJL:CSS

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each for units furnished and will include all costs for labor, material, and equipment required to furnish permanent signs and supports materials to the City and coordinate installation with the City as shown on the plans and as specified herein.

Payment for permanent DS_Post, Steel, 3 Lb. posts and associated hardware will be measured by the foot for posts furnished and will include all costs for labor, material, and equipment required to furnish permanent signs and supports materials to the City as shown on the plans and as specified herein

Payment for bases, posts, and mounting hardware shall not be paid for separately but shall be included in the corresponding pay item(s).

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
ELECTRICAL CABINET

OHM:TJL:CSS

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12/10/2025

a. Description. This work consists of providing all labor, materials, and equipment required to install electrical cabinets in accordance with City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein, and as directed by the Engineer.

b. Materials.

Materials shall meet all City of Ann Arbor and applicable electrical codes.

- (1) Streetlight Cabinet
- (2) 100A Breaker Panel 30-space
 - 1 for streetlights
 - 1 for GFCIs
- Contactors 60A, 3-pole
- (2) Selector Switches Hand/Off/Auto
 - 1 for streetlights
 - 1 for GFCIs
- Twist Lock Photocell – mounted on top of cabinet
- Meter Socket – mounted to side of cabinet

An electrical trough box will need to be installed for connections at the existing panel foundations.

c. Construction. This work includes removing the existing electrical cabinet, breakers, mounting brackets, hardware, fittings, cables, connectors, grounding and other materials required to complete the work at the location shown on the plans. Ensure all work conforms to City of Ann Arbor 2025 Public Services Standard Specifications, the applicable details, local codes and this detailed specification. Storage or disposal of the removed material is included.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
ELECTRICAL CABINET

OHM:TJL:CSS

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CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
ELECTRICAL CABINET

OHM:TJL:CSS

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

Pay Item

Pay Unit

DS_Electrical Cabinet.....Each

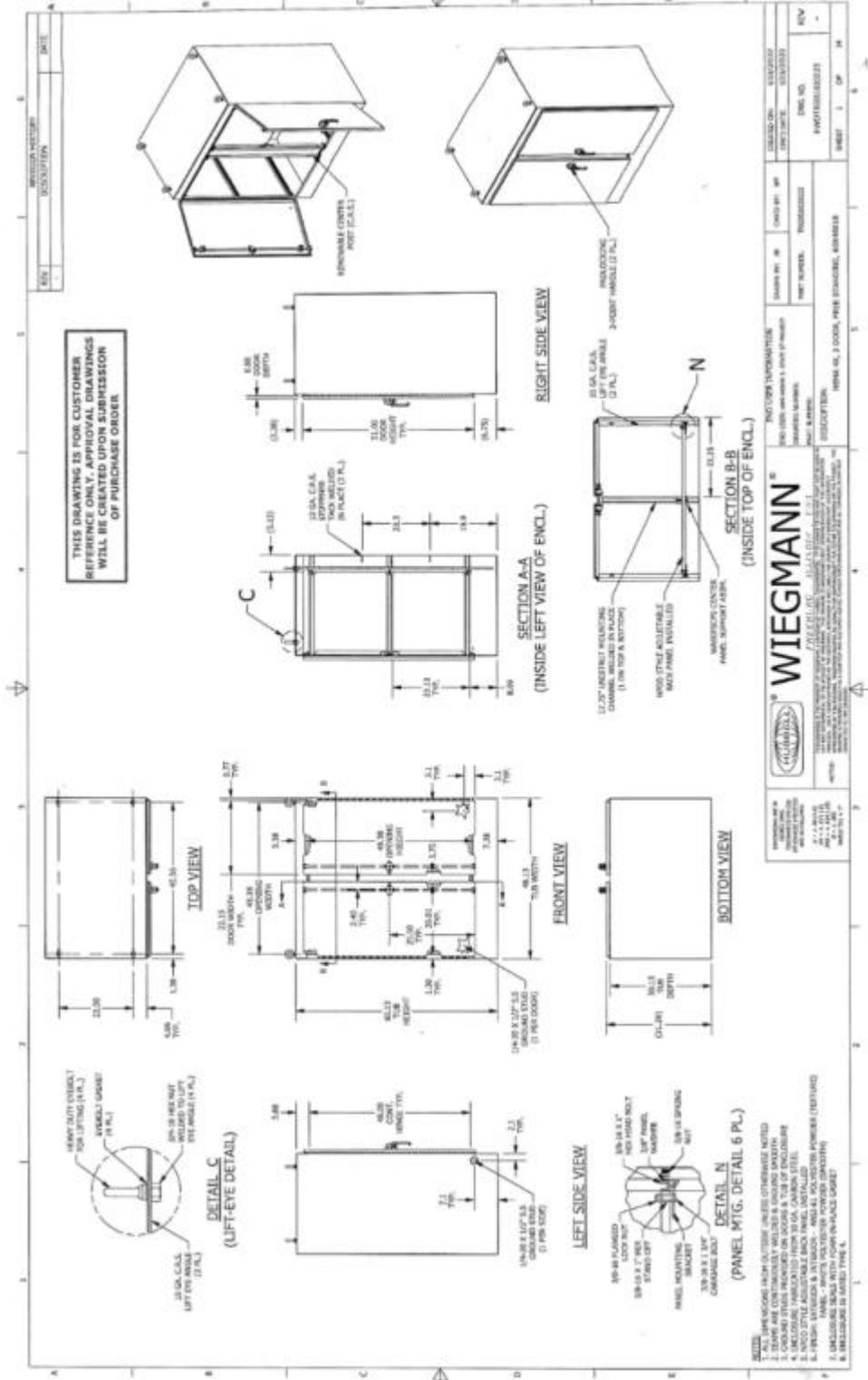
Payment for **DS_Electrical Cabinet** will be measured by each unit completely installed and will include all costs for labor, materials, and equipment to complete the work including, removal and disposal of existing cabinet, purchasing and furnishing of new cabinet, assembling cabinet, and installing cabinet junction box as needed.

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
 ELECTRICAL CABINET

OHM:TJL:CSS

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CITY OF ANN ARBOR

DETAILED SPECIFICATION
FOR
HANDHOLE, ADJ.

OHM:BB:CJE

1 of 1

1/19/2025

a. Description. This work shall consist of providing all labor, materials, and equipment required to adjust handhole assemblies at the locations shown in the Plans, or as directed by the Engineer. All work shall be completed in accordance with the current National Electric Code (NEC), Section 819 of the Michigan Department of Transportation 2012 Standard Specifications for Construction, except as specified herein.

b. Materials. Furnish Class II granular backfill in accordance with subsection 902.07 of the 2020 MDOT Standard Specifications for Construction.

c. Construction. This item includes the final adjustment of existing handholes to meet proposed grade elevation, where such change is at least 3", to a maximum of 15". The work shall include all vertical adjustments to the handhole structure, creation of new penetrations into the sidewall of the structure necessary, cleanout of the structure, and placement of aggregate necessary to support and backfill the handhole. Vertical adjustments of less than 3" are considered incidental to the placement of pavement.

d. Measurement and Payment. The completed work, as described, will be measured, and paid for at the Contract unit price for the following pay item:

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Handhole, Adjust	Ea

Payment for **DS_Handhole, Adjust** will be measured by each unit completely adjusted and will include all costs for labor, material, and equipment required to complete the work.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PLANTING SOIL AND MULCH

OHM:TJL:CSS

1 of 2

12/9/2025

a. Description. This work consists of providing all labor, materials, and equipment required to provide and place planting soil (topsoil) and mulch/woodchips in landscape planters, lawn areas, and tree pits, and rain garden soils as shown on the plans, and as detailed herein or as directed by the Engineer. All work must be conducted in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications and the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as modified herein, or as directed by the Engineer.

b. Materials.

Planting Soil: The topsoil provided shall meet the requirements of City of Ann Arbor Division III, Section 6B. Planting and Backfill Soil Material, and be amended as noted in Section 6B for use in all landscape applications other than rain gardens.

Mulch/woodchips: Compliant Michigan Department of Transportation 2020 Standard Specifications for Construction Section 917 and as approved by the Engineer.

c. Construction.

All earth disturbing activities within the vicinity of the planters must be substantially complete, and curb and paving work completed prior to the excavation of the planter. Scarify and loosen subgrade in planters to a depth of 12 inches below the proposed Planter Soil, removing all debris and stones larger than 3 inches in any dimension from subgrade.

Conduct excavation work with the equipment within the footprint of the planter as detailed on the plans. No equipment is permitted in the planter unless approved in advance by the Engineer. In those instances where equipment is allowed within the cell bed it must consist of low ground pressure, lightweight equipment. In these instances, ensure the underlying bed soil is restored to a friable condition to a minimum depth of 12 inches.

Excavate to the depth detailed on the plans and miscellaneous details to accommodate the planting soil mix and mulch. Final grades shown on the plans are to the top of the soil, or as directed by the Engineer.

The depth of the tree root balls may require excavation into the soil subgrade to accommodate the root ball.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
PLANTING SOIL AND MULCH

OHM:TJL:CSS

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12/9/2025

d. Measurement and Payment. The completed work, as described, will be paid for at the contract unit price for the following contract items (pay items):

<u>Pay Item</u>	<u>Pay Unit</u>
DS_Planting Soil and Mulch.....	Cubic Yard

Payment for **DS_Planting Soil and Mulch** will be measured by the cubic yard and will include all costs for labor, material, and equipment required to complete the work as indicated on the plans and as directed by the Engineer. Mulch is considered incidental to the landscape and soils pay items and will not be paid for separately.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR
PERFORATED CONCRETE BASE, 6 IN.

OHM:TJL:CSS

1 of 2

12/9/2025

a. Description. This work consists of providing all labor, materials, and equipment required to construct perforated concrete base for brick paver areas where shown and as detailed on the plans in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein, or as directed by the Engineer.

b. Materials.

Subbase Material – granular material Class II which meets the requirements of section 902 of the Michigan Department of Transportation 2020 Standard Specifications.

Weep Hole Fill – coarse aggregate grade 17A, 25A, 26A or 29A which meet the requirements of the Michigan Department of Transportation 2020 Standard Specifications.

Concrete Base – concrete Grade 3500 as specified in section 1004 of the Michigan Department of Transportation 2020 Standard Specifications.

Geotextile – provide geotextile fabric which meets the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications for brick pavers, or as directed by the engineer.

Dowels – provide 18-inch-long ½-inch epoxy coated steel dowel which meet the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications.

Curing compound - provide curing compound which meets the requirements of the City of Ann Arbor 2025 Public Services Standard Specifications.

c. Construction Methods. The Contractor will construct concrete base in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications, except as modified herein.

After existing base materials are removed through other operations, the Contractor will allow the Engineer time to inspect the existing subbase for reuse.

The Contractor will excavate and install subbase material as directed by the Engineer at a minimum of 6-inches-thick compacted to at least 95% of the maximum unit weight.

The Contractor will pour a 6-inch thick concrete base. The Contractor will perforate the concrete base with 2-inch diameter weep holes which extend to a depth to the surface of the subbase. Install perforations 4 foot on center. Fill weep holes to the top with course aggregate.

CITY OF ANN ARBOR

DETAILED SPECIFICATION FOR
PERFORATED CONCRETE BASE, 6 IN.

OHM:TJL:CSS

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Install geotextile on top of cured concrete base before restoring brick pavers.

d. Measurement and Payment.

The completed work, as described, will be paid for at the contract unit prices for the following contract items (pay items):

Pay Item

Pay Unit

DS_Perforated Concrete Base, 6 In..... Square Foot

Payment **DS_Perforated Concrete Base, 6 In.** will be measured by the square foot for units in place and will include all costs for labor, materials, and equipment required to complete this work, including furnishing, installing, and finishing concrete (including perforations), dowels, curing compound, coarse aggregate, granular material, and geotextiles.

Payment for existing base removals and excavation will be included in payment for other pay items.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
SIDEWALK UNIT PAVERS

OHM:QH:CSS

1 of 10

12/15/2025

- a. Description.** This work includes supplying and installing pre-cast concrete pavers laid with hand-tight joints over a fine aggregate bedding, to be placed on a separately paid for concrete slab. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.

Related Documents

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, City Standard Specifications, and MDOT 2020 Standard Specifications for Construction (as well as applicable Special Provisions as referenced herein) apply to this Section.
- B. ASTM International, latest edition:
 - C 33, Standard Specification for Concrete Aggregates.
 - C 136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - C 140, Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
 - C 144 Standard Specifications for Aggregate for Masonry Mortar.
 - C 936, Standard Specification for Solid Concrete Interlocking Paving Units.
 - C 979, Standard Specification for Pigments for Integrally Colored Concrete.
 - C 1645, Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units
 - D 4632, Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
 - D 4533, Standard Test Method for Index Trapezoidal Tearing Strength of Geotextiles
 - D 4833, Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
 - D 4491, Standard Test Method for Water Permeability of Geotextiles by Permittivity
 - D 4751, Standard Test Method for Determining Apparent Opening Size of a Geotextile

b. Materials.

- A. Source Limitations: Obtain each type of unit paver, joint material, and setting material from single source with resources to provide materials and products of consistent quality in appearance and physical properties.
- B. New Brick Pavers: Heavy vehicular paving brick; ASTM C 1272, Grade SX, Type F, Application PS. Brick shall be free of cracks or other imperfections detracting from the appearance of a designated sample when viewed from a distance of 20 feet for Application PS, and meeting the following conditions:

CITY OF ANN ARBOR
 DETAILED SPECIFICATION
 FOR
SIDEWALK UNIT PAVERS

OHM:QH:CSS

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1. Manufacturers: Subject to compliance with requirements, provide products manufactured by Belden Brick. Local product distributor is The Belden Brick Sales Company (phone 586-294-5400)
2. City Line Series, Claret Full Range Chamfered & Lugged Paver, "Jumbo"
 - Width: 4 inches (nominal)
 - Height: 2-3/4 inches (nominal)
 - Length: 8 inches (nominal)
3. Color: Brown
4. Efflorescence: Brick shall be rated "not effloresced" when tested according to ASTM C 67.

Contractor is to provide the specified precast concrete unit paver, or an equal product approved by the Engineer.

- C. Salvaged Brick Pavers: Ninety (90) square feet of salvaged existing pavers shall be palletized and provided to Owner as attic stock.
- D. Joint Sand: Provide natural Joint Sand as follows:
 1. SEK Surebond Segmental Pavement Jointing Sand (ASTM-C144).
 2. Color: Tan
 3. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural, or manufactured from crushed rock. The jointing sand shall be free of organics and soluble salts or other contaminants likely to cause efflorescence.
 4. Do not use limestone screenings, stone dust, or sand for the Joint Sand material that does not conform to the grading requirements of ASTM C 33.
 5. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
 6. The jointing sand shall be in compliance with the following grading limits:

TABLE 1 – JOINT SAND GRADATION REQUIREMENTS FOR JOINT SAND

ASTM C 144		
Sieve Size	Natural Sand Percent Passing	Manufactured Sand Percent Passing
No. 4 (4.75 mm)	100	100
No. 8 (2.36 mm)	95 to 100	95 to 100
No. 16 (1.18 mm)	70 to 100	70 to 100
No. 30 (0.600 mm)	40 to 75	40 to 75
No. 50 (0.300 mm)	10 to 30	20 to 40
No. 100 (0.150 mm)	2 to 15	10 to 25
No. 200 (0.075)	0 to 1	0 to 10

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- E. Setting Bed Sand: Provide Setting Bed Sand as follows:
1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
 2. Do not use limestone screenings, stone dust, or sand material that does not conform to the grading requirements of ASTM C 33.
 3. Do not use mason sand or sand conforming to ASTM C 144.
 4. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
 5. Conform to the grading requirements of ASTM C 33 with modifications as shown in Table 2 below:

TABLE 2 – SETTING BED SAND GRADATION REQUIREMENTS FOR SETTING BED SAND

ASTM C 33	
Sieve Size	Percent Passing
3/8 in (9.5 mm)	100
No. 4 (4.75 mm)	95 to 100
No. 8 (2.36 mm)	85 to 100
No. 16 (1.18 mm)	50 to 85
No. 30 (0.600 mm)	25 to 60
No. 50 (0.300 mm)	10 to 30
No. 100 (0.150 mm)	2 to 10
No. 200 (0.075)	0 to 1

Note: Coarser sand than that specified in Table 1 above may be used for joint sand including C 33 material as shown in Table 2. Use material where the largest sieve size easily enters the smallest joints. For example, if the smallest paver joints are 2 mm wide, use sand 2 mm and smaller in particle size. If C 33 sand is used for joint sand, extra effort may be required in sweeping material and compacting the pavers in order to completely fill the joints.

- F. Joint Stabilizer:
1. SEK Surebond SB-1300
 2. Finish: Natural look matte finish
 3. Distributed by: Unilock Michigan. Contact: Shaun Breuer, 248-388-5833, Shaun.Breuer@unilock.com.
 4. Install per manufacturer's recommendations

Submittals

- A. Concrete Pavers:

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1. Samples for verification: Three representative full-size samples of each paver type, thickness, color and finish that indicate the range of color variation and texture expected upon project completion.
2. Accepted samples become the standard of acceptance for the product produced.
3. Test results from an independent testing laboratory for compliance of concrete pavers with ASTM C 936.
4. Manufacturer's catalog product data, installation instructions, and material safety data sheets for the safe handling of the specified materials and products.
5. Submit product certification materials for each type of precast concrete units, demonstrating compliance for the following:
 - a) Compressive Strength
 - b) Flexural Strength
 - c) Absorption
 - d) Freeze/Thaw Resistance

B. Joint and Setting Bed Sand:

1. Provide three representative one-pound samples in containers of Joint Sand materials.
2. Provide three representative one-pound samples in containers of Setting Bed Sand materials.
3. Test results from an independent testing laboratory for sieve analysis per ASTM C 136 conforming to the grading requirements of ASTM C 144.
4. Submit product certification materials for all jointing and bedding aggregates and paving joint mortars.

C. Base and Subbase Aggregate:

1. Test results from an independent testing laboratory for sieve analysis per ASTM C 136.

D. Paving Installation Contractor:

1. Job references from a minimum of three projects similar in size and complexity. Provide Owner/Client/General Contractor names, postal address, phone, fax, and email address.

Quality Control/Quality Assurance

- A. Utilize a Manufacturer having at least ten years of experience manufacturing concrete pavers on projects of similar nature or project size.
- B. Source Limitations:
 1. Obtain Concrete Pavers from one source location with the resources to provide products of consistent quality in appearance and physical properties.
 2. Obtain Joint and Setting Bed Sands from one source with the resources to provide materials and products of consistent quality in appearance and physical properties.
 3. Obtain Polymeric Joint Sand from one source with the resources to provide materials and products of consistent quality in appearance and physical

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properties.

C. Paving Contractor Qualifications:

Employ one installing entity to be responsible for the finished pavement surface, including installation of the paver containment, setting bed, joint filler and setting of unit pavers, who has in the past three years installed at least three projects of this size or larger.

D. Mockups:

1. Install a preliminary mock-up, 20 square feet minimum, prior to placement of concrete sidewalk to determine if minor adjustments to the width of the paver band may be prudent to avoid excessive cutting of pavers during installation. Such modifications to dimensions are to be approved by the Engineer.
2. Construct a second mock-up sample, 40 square feet minimum, of the paving system indicating the pattern and joints required in actual construction. Make all mock-up samples as required until accepted by the Owner. Consider the selected mock-up a minimum standard of workmanship when accepted, to be matched or bettered throughout the Project. The mock-up may be constructed as part of the Project and, if approved, will be accepted as part of the Work. However, should the Mock-up fail to meet the Owner's approval, remove and reconstruct it until approved.
3. Protect the Work completed under this section, adjacent work and materials against damage during progress of the Work until complete.

Delivery, Storage and Handling

- A. Deliver Concrete Pavers in manufacturer's original, unopened, and undamaged container packaging with identification labels intact.
 1. Coordinate delivery and paving schedule to minimize interference with normal use of streets and sidewalks adjacent to paver installation.
 2. Deliver Concrete Pavers to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by forklift or clamp lift.
 3. Unload Concrete Pavers at job site in such a manner that no damage occurs to the product or adjacent surfaces.
- B. Store and protect materials free from mud, dirt and other foreign materials.
- C. Store the materials under cover, clear of the ground, and protected from the weather and damage during storage.
- D. Prevent Joint and Setting Bed Sand from exposure to rainfall or removal by wind with secure, waterproof covering.

Project/Site Conditions

- A. Environmental Requirements:
 1. Install Concrete Pavers only on unfrozen and dry Setting Bed Sand.
 2. Install Concrete Pavers only on unfrozen and dry Base or Subbase Aggregate materials.
 3. Install Base or Subbase Aggregates only over unfrozen subgrade.
 4. Install Setting Bed Sand or Concrete Pavers only when there is no heavy rain or snowfall.

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c. Construction Methods.

A. Examination

1. Examine areas indicated to receive paving for compliance with requirements for installation tolerances and other conditions affecting performance for the following before placing the Concrete Pavers.
 - a. Verify the Concrete Underlayment has cured.
 - b. Verify that Geotextiles, if applicable, have been placed according to drawings and specifications.
 - c. Verify the Concrete Underlayment thickness, strengths, surface tolerances and elevations conform to specified requirements.
 - d. Provide written density test results for soil subgrade, Concrete Underlayment P.S.I testing to the Owner, General Contractor and paver installation subcontractor.
 - e. Verify location, type, and elevations of edge restraints, concrete curbing, concrete collars around utility structures, and drainage inlets.
2. Proceed with installation only after unsatisfactory conditions have been corrected.
 - a. Beginning of Bedding Sand and Concrete Paver installation signifies acceptance of Base and edge restraints.

B. Preparation

1. Verify the Perforated Concrete Based installed per SD-DDA-4 and the **Detailed Specification for Perforated Concrete Base, 6 In.** is clean and dry, certified by General Contractor as meeting material, installation, and grade specifications.
2. Stockpile Setting Bed Sand and Joint Sand such that they are free from standing water, uniformly graded, free of any organic material or sediment, debris, and ready for placement.
3. Verify that base and Geotextile is ready to support sand, pavers and imposed loads.
4. Keep area where pavement is to be constructed free from sediment during entire job.
5. Remove and replace all Geotextile, Joint Sand and Setting Bed Sand materials contaminated with sediment with clean materials.

C. Setting Bed Sand

1. The aggregate shall be of uniform moisture content when screeded and shall be protected against rain when stockpiled on site prior to screeding. For installation, the moisture content shall be in the range of 4 to 8 percent.
2. Provide, spread and screed Setting Bed sand evenly over the Concrete Underlayment.
 - a. The bedding aggregate shall be spread loose in a uniform layer to give a depth after compaction of the paving units a thickness as indicated in plans, recommended by the paver manufacturer and as required to achieve designed grades.
 - b. Protect screeded Setting Bed sand from being disturbed by either pedestrian or vehicular traffic. Screed only the area which can be covered by pavers in one day.

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- c. Keep moisture content constant and density loose and constant until Concrete Pavers are set and compacted.
- d. Screed Setting Bed Sand using either an approved mechanical spreader (e.g.: an asphalt paver) or by the use of screed rails and boards. Maintain in a loose condition slightly ahead of the paving units and fully protect against incidental compaction following screeding. Loosen compacted sand by rain or screeded sand left overnight before further paving units are placed.
- e. Inspect the Setting Bed Sand course prior to commencing the placement of the Concrete Pavers. Acceptance of the Setting Bed Sand occurs with the initiation of Concrete Paver placement.

D. Screeding of Paver Setting Bed:

1. The spread aggregate shall be carefully maintained in a loose condition and protected against pre-compaction by traffic or rain both prior to and following screeding. Aggregate shall be lightly screeded in a loose condition to predetermined depth. Under no circumstances shall the aggregate be screeded in advance of the laying face to an extent to which paving will not be completed on that day. Any screeded aggregate which is pre-compacted prior to laying of paving unit shall be brought back to profile in a loose condition. Neither pedestrian nor vehicular traffic shall be permitted on the screeded aggregate.
2. The Contractor shall screed the bedding aggregate using either an approved mechanical spreader or by the use of screed guides and boards.

E. Utility Collars

1. All water and gas valves, curb boxes and related at grade obstructions located in the sidewalk unit pavers are to have a cast in place concrete collar installed, which is square or rectangular in shape, at least 4 inches wider than the perimeter of the utility cover in all directions. Where feasible, the utility collar should be dimensioned to minimize the cutting of pavers and the use of cut slivers of pavers. Review color and utility conditions with Engineer before completion of sidewalk formwork.
2. Utility collars will be paid for as part of this pay item.

F. Concrete Pavers

1. Replace Concrete Pavers with chips, cracks, voids, discolorations, and other defects that might be visible in finished work.
2. Mix Concrete Pavers from a minimum of three (3) bundles simultaneously drawing the paver vertically rather than horizontally, as they are placed, to produce uniform blend of colors and textures. (Color variation occurs with all concrete products. This phenomenon is influenced by a variety of factors, e.g. moisture content, curing conditions, different aggregates and, most commonly, from different production runs. By installing from a minimum of three (3) bundles simultaneously, variation in color is dispersed and blended throughout the project).
3. Exercise care in handling face mix concrete pavers to prevent surfaces from contacting backs or edges of other units.
4. Provide Concrete Pavers using laying pattern as indicated. Adjust laying pattern at pavement edges such that cutting of edge pavers is minimized. Cut all pavers exposed to vehicular tires no smaller than one-third of a whole paver.

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5. Use string lines or chalk lines on Setting Bed Sand to hold all pattern lines true.
6. Set surface elevation of pavers 1/8 in. (3 mm) above adjacent drainage inlets, concrete collars or channels.
7. Place units hand tight against spacer bars. Adjust horizontal placement of laid pavers to align straight.
 - a. When installation is performed with mechanical equipment, use only unit pavers with spacer bars on sides of each unit.
8. Provide space between paver units of 1/32 in. (1 mm) wide to achieve straight bond lines.
9. Prevent joint (bond) lines from shifting more than $\pm 1/2$ in. (± 13 mm) over 50 ft. (15 m) from string lines.
10. Fill gaps between units or at edges of the paved area that exceed 3/8 inch (10 mm) with pieces cut to fit from full-size unit pavers.
11. Prevent all traffic on installed Concrete Pavers until Joint Sand has been vibrated into joints. Keep skid steer and forklift equipment off newly laid Concrete Pavers that have not received initial compaction and Joint Sand material.
12. Vibrate Concrete Pavers into leveling course with a low-amplitude plate vibrator capable of at least 5000-lbf (22-kN) compaction force at 80 to 90 Hz. Perform at least three passes across paving with vibrator. Vibrate under the following conditions:
 - a. After edge pavers are installed and there is a completed surface or before surface is exposed to rain. Initial compaction should proceed as closely as possible following installation of the paving units and prior to acceptance of any traffic or application of jointing sand.
 - b. Compact installed Concrete Pavers to within 6 feet (2 meters) of the laying face before ending each day's work. Cover Concrete Pavers that have not been compacted and leveling course on which pavers have not been placed, with non-staining plastic sheets to prevent Setting Bed Sand from becoming disturbed.
13. Protect face mix Concrete Paver surface from scuffing during compaction by utilizing a urethane pad.
14. Remove any cracked or structurally damaged Concrete Pavers and replace with new units prior to installing Joint Sand material.

G. Cutting of Pavers

1. Contractor shall make all efforts to use full bricks to the maximum extent possible. Where cutting of brick is required to achieve the desired pattern, brick shall be cut to leave a clean edge to the traffic surface using a mechanical hydraulic, or guillotine cutter or masonry saw. Contractor shall control dust, prevent splatter and protect the public from the cutting operation.
2. Discontinuities in patterns will not be permitted. Lay out pavers in all areas so as to eliminate slivers at edges.
3. Coordinate with poured concrete flatwork installer to establish paver area dimensions which help reduce or eliminate longitudinal cuts to pavers.
4. Carefully place the pavers by hand in straight courses with hand-tight joints and uniform top surface. Maintain good alignment and provide the pattern indicated.

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5. Protect newly laid pavers at all times by panels of plywood, on which the installer stands, which can be advanced as work progresses. However, keep the plywood protection in areas which will be subjected to continued movement of materials and equipment. Take these precautions to avoid depressions and protect paver alignment.
6. If additional leveling of the pavers is required, and before sweeping in joint filler, roll with a power roller after sufficient heat has built up in the surface from several days of hot weather.
7. Inspection of Installed Pavers: After sweeping and prior to compaction, the paved area shall be inspected by the Owner and the Engineer to ensure satisfactory color blending. Areas deemed poorly blended shall be removed and re-installed in order to achieve satisfactory color distribution.

H. Joint Sand

1. Provide, spread and sweep dry Joint Sand into joints immediately after vibrating pavers into Setting Bed Sand course until full. Vibrate pavers and add Joint Sand material until joints are completely filled, then remove excess material. This will require at least 4 passes with a plate compactor.
2. Leave all work to within 3 ft. (1 m) of the laying face fully compacted with sand-filled joints at the completion of each day.
3. Remove excess Joint Sand broom clean from surface when installation is complete.

I. Final Compaction for Pavers

1. After joint sand has been installed and the pavement surface swept clean, final compaction shall be accomplished by not less than two passes of the plate compactor.
2. Final compaction should proceed as closely as possible following installation of joint sand and prior to the acceptance of any traffic.

J. Proof Rolling

1. Proof roll the completed installation with pneumatic tire equipment which replicates anticipated service traffic. Subject each individual paver to at least one passage of load.
2. Equipment and procedures are subject to approval by the Owner and Engineer, and proof rolling will be observed and recorded by the Engineer.
3. Remove and replace units cracked or otherwise damaged by proof rolling, including inspection and repair of setting bed.

K. Allowable Tolerance

1. Finished surface of pavement: smooth, even, and true to the lines, grades and cross section indicated. Maximum deviation when tested with a 10-foot straight-edge parallel to the centerline of the surfaced area: 1/4 inch in 10 feet.
2. Maximum offset from flush from paver surface to paver surface or from paver surface to a fixed flush edge: 1/16 inch.
3. Slope finished walk for drainage without any ponded water on the finished surface.
4. Verify final elevations for conformance to the drawings after sweeping the surface clean. Prevent final Concrete Paver finished grade elevations from deviating more than $\pm 3/8$ in. (± 10 mm) under a 10 ft (3 m) straightedge or indicated slope, for finished surface of paving.

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L. Repair, Cleaning and Protection.

1. Clean paver surface of all debris, dirt, aggregate, and sand.
2. Remove and replace pavers which are chipped, broken, stained or otherwise damaged, or if units do not match adjoining units as intended. Provide new units to match adjoining units and install in the same manner as original units, with same joint treatment to eliminate evidence of replacement.
3. Provide final protection of paver areas in a manner acceptable to the installer, which ensures paver work being without damage or deterioration at the time of substantial completion.
4. Warranty. Finished area shall be free of bumps or depressions, evenly graded to levels shown, and shall be guaranteed against defects of materials and workmanship for a period of two years after substantial completion.

M. Protection

1. Protect completed work from damage due to subsequent construction activity on the site.

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

<u>PAY ITEM</u>	<u>PAY UNIT</u>
DS_Brick Pavers, New	Square Foot
DS_Brick Pavers, Salvaged Brick Pavers	Square Foot

DS_Brick Pavers, New will be measured and paid by the area of unit paver pavement in place. The work includes the sand setting bed, jointing sand, and all incidental measures required to complete the work, including the utility collars described herein. The concrete base slab will be paid for separately as **DS_Perforated Concrete Base, 6 In**

DS_Brick, Salvaged Brick Pavers will be measured and paid by the surface area of unit pavers removed and salvaged. The work includes removal and salvaging of existing pavers, including disposal of broken pavers, placing approved salvaged pavers on a pallet with banding/wrapping, and transporting them to the DDA's storage area at the City's W. R. Wheeler Center.

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DETAILED SPECIFICATION
FOR
BIKE HOOP, SURFACE MOUNT

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- a. Description.** This work consists of furnishing all labor, equipment, and materials required to place bike hoops in the areas shown on the plans. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.
- b. Materials.** Provide bike hoop materials selected and approved by the DDA.
- a. Known supplier:
 - i. Manufacturer: Belson Outdoors. 627 Amersale Drive | Naperville, IL 60563 | (800) 323-5664 | sales@belson.com
 - ii. Model: Single U Style Loop Bike Rack, #P5050SM
 - iii. Dimensions: 24-3/8" by 1-7/8" by 36" height.
 - iv. Material: 13-gauge Pre-Galvanized Steel Tube
 - v. Finish: Powder-Coated
 - b. The materials will include the anchor bolts, nuts, washers, and all other hardware required for installation in accordance with the specifications herein, details included on the plans and per the manufacturer's recommendations.

Shop drawings from the manufacturer are to be submitted to the Engineer for approval prior fabrication. Furnish and install bike hoops with the following specifications:

1. All pipe and anchoring hardware materials are to be made of galvanized steel.
2. Fabricate bike hoops as dimensioned on the plans.
3. The finish of the bike hoops is to be powder-coated (black) over galvanized steel.
4. The bike hoop pipe is to be Schedule 40.
5. Bike hoops must be surface mounted, where shown and as noted on plans; install per the manufacturer's recommendations.
6. Tamper proof anchor bolts with washers shall be stainless steel per Standard Detail SD-DDA-10.

c. Construction Methods.

Review proposed bike hoop locations with the Engineer prior to installation.

Surface mounting is required in all areas. Identify each part prior to assembly, only after final adjustment and leveling permanently tighten all bolt, nuts, and fasteners. All protruding bolts should be cut off and finished smooth.

Install bike hoops after concrete has achieved designed strength. Evenly space bike hoops at the dimensions noted on plans. Bike hoops must be installed plumb and in line with each other and shall

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BIKE HOOP, SURFACE MOUNT

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be firmly connected to the foundation or pavement so as to prevent rocking.

Perform the construction methods in accordance with section 803 of the 2020 MDOT Standard Specification for Construction and per Standard Detail SD-DDA-10, unless otherwise stated in this special provision.

- d. **Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
DS_Bike Hoop, Surface Mount	Each

DS_Bike Hoop, Surface Mount will be measured and paid by each unit completely installed and will include all costs for labor, materials, and equipment required to complete the work, including furnishing and installing the bike hoop and all associated hardware.

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DETAILED SPECIFICATION
FOR
URBAN BENCH

OHM:QH:CSS

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a. Description. This work consists of furnishing and installing a metal bench in accordance with the details and at the location on the plans. This includes any necessary excavation, drilling into pavement, assembly, and disposal of unsuitable materials and packaging required for a complete installation. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.

b. Materials.

The materials will include the anchor bolts, nuts, washers, and all other hardware required for installation in accordance with the specifications herein, details included on the plans and per the manufacturer's recommendations.

Shop drawings from the manufacturer are to be submitted to the Engineer for approval prior to fabrication.

Furnish and install Urban Bench as manufactured by Forms + Surfaces of Pittsburgh, PA (800-451-0410):

1. Model: SBTRO-72BW
2. Dimension: 75" L X 22.7" D X 33.6" H
3. Configuration: Backed
4. Slat Material: FSC 100% Cumaru hardwood slats
5. Frame Material: Cast Aluminum
6. Frame Finish: Powdercoat, Dark Grey Metallic Texture
7. Armrests: Two (external) / One Armrest Centered
8. Mounting: Surface Mount
9. Weight: 166.7 lbs

These site furnishings will also meet the following requirements:

- Site furnishings must be surface mounted and installed per the manufacturer's recommendations.
- All anchoring bolts, nuts, washers, and all other hardware for installation to be stainless steel.

When requested by the Engineer, the Contractor must furnish certification regarding the compliance of materials incorporated in the work.

Contractor is to provide the specified site furnishings, or an equal product approved by the Engineer.

c. Construction Methods. Install and anchor the Urban Bench in the concrete pavement in accordance with the details as shown on the plans and the manufacturer's recommendations.

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URBAN BENCH

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The benches must be level and square to each other and the surrounding site features, and set in a true, flat plane to prevent rocking. Review all locations of site furnishings in this specification with the Engineer prior to installation. The Engineer reserves the right to select alternative locations.

d. 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_Urban Bench Each

DS_Urban Bench will be measured and paid by each unit completely installed and will include all costs for labor, materials, and equipment required to complete the work, including furnishing and installing the urban bench and all associated hardware.

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DETAILED SPECIFICATION
FOR
TRASH RECEPTACLE

OHM:CSS:RQH

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a. Description. This work consists of furnishing and installing trash receptacles in accordance with the details and at the location on the plans. This includes any necessary excavation, drilling into pavement, assembly, and disposal of unsuitable materials and packaging required for a complete installation. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.

b. Materials.

The materials will include the receptacle with shield, 32-gallon liner with handle, anchor bolts, nuts, washers, and all other hardware required for installation in accordance with the specifications herein, details included on the plans and per the manufacturer's recommendations.

Shop drawings from the manufacturer are to be submitted to the Engineer for approval prior to fabrication.

Furnish and install Trash Receptacle as manufactured by DuMor, Inc. of Mifflintown, PA (800-598-4018) Model 287-32SH-RC0029. The top of the Trash Receptacle shall have a vinyl decal with "Ann Arbor Downtown Development Authority" printed on it as indicated on the details below:

These site furnishings will also meet the following requirements:

- Site furnishings must be surface mounted and installed per the manufacturer's recommendations.
- All anchoring bolts, nuts, washers, and all other hardware for installation to be stainless steel.

When requested by the Engineer, the Contractor must furnish certification regarding the compliance of materials incorporated in the work.

Contractor is to provide the specified site furnishings, or an equal product approved by the Engineer.

c. Construction Methods. Install and anchor the Trash Receptacle in the concrete pavement in accordance with the details as shown on the plans and the manufacturer's recommendations. The receptacles must be level and square to each other and the surrounding site features, and set in a true, flat plane to prevent rocking. Review all locations of site furnishings in this specification with the Engineer prior to installation. The Engineer reserves the right to select alternative locations.

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

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FOR
TRASH RECEPTACLE

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PAY ITEM

PAY UNIT

DS_Trash Receptacle Each

DS_Trash Receptacle will be measured and paid by each unit completely installed and will include all costs for labor, materials, and equipment required to complete the work, including furnishing and installing the trash receptacle and all associated hardware.

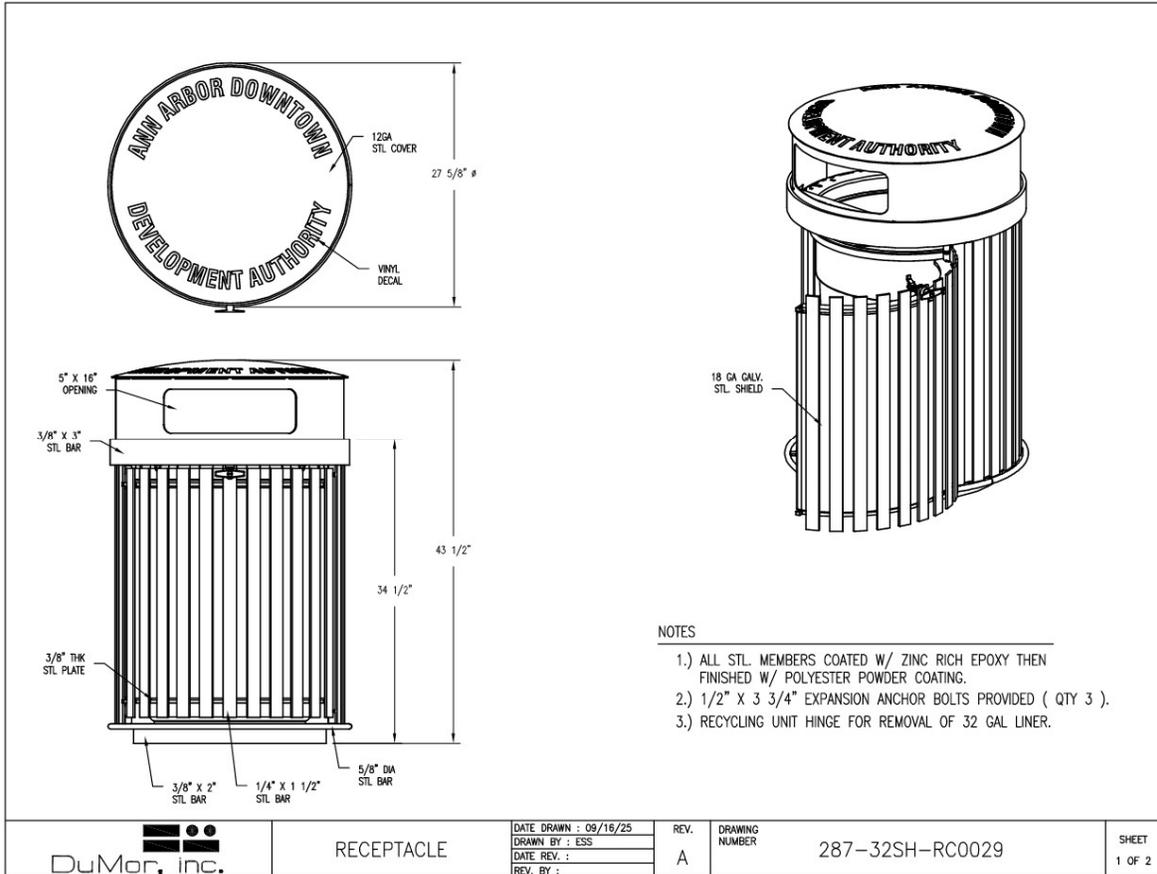
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FOR
TRASH RECEPTACLE

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DuMor, inc.

RECEPTACLE

DATE DRAWN : 09/16/25
DRAWN BY : ESS
DATE REV. :
REV. BY :

REV.
A

DRAWING
NUMBER

287-32SH-RC0029

SHEET
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TRASH RECEPTACLE

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NOTES:
 1.) THE ACTUAL PARTS WILL NOT BE NUMBERED. NUMBERS ONLY APPLY TO DRAWING.
 2.) MOUNT AND ANCHOR AS SPECIFIED.

TOOLS REQ'D
 3/4" WRENCH
 1/2" MASONRY DRILL BIT
 DRILL

KITS PROVIDED

ITEM	QTY	PART NO	DESCRIPTION
3	1	K-ANCOB80-3	1/2" X 3 3/4" SS ANCHOR KIT (3PCS)

PARTS LIST

ITEM	QTY	PART NO	DESCRIPTION
1	1	0-287-30SHR0029	30 GAL RECEPTACLE ASSEMBLY W/SIDE OPENING & SHIELD
2	1	49-32	32 GAL PL LINER W/ HANDLE, BLK

DuMor, inc.

ASSEMBLY INSTRUCTIONS

DATE DRAWN : 09/16/25
 DRAWN BY : ESS
 DATE REV. :
 REV. BY :

REV. A

DRAWING NUMBER
 287-32SH-RC-0029

SHEET
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CITY OF ANN ARBOR

DETAILED SPECIFICATION
FOR
DDA RAISED PLANTER WITH CURB

OHM:QH:CSS

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- a. Description.** This work consists of cast-in-place architectural concrete including form facings, reinforcement accessories, concrete materials, concrete mixture design, placement procedures, and finishes. This work shall be completed as shown on the Plans, as detailed in the Specifications, and as directed by the Engineer, in accordance with City of Ann Arbor Standard Specifications and the 2020 MDOT Standard Specifications for Construction, except as specified herein, and as directed by the Engineer.

A. Definitions

Cast-in-Place Architectural Concrete: Formed concrete that is exposed to view on surfaces of completed Concrete Seat Wall or Concrete Planter Curb and that requires concrete materials, formwork, placement, or finishes to obtain specified architectural appearance.

Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.

Design Reference Sample: Sample designated by Engineer in the Contract Documents that reflects acceptable surface quality and appearance of cast-in-place architectural concrete.

B. Preinstallation Meetings

1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place architectural concrete to attend, including the following:

Contractor's superintendent.

PART 1 - Independent testing agency responsible for concrete design mixtures.

PART 2 - Ready-mix concrete manufacturer.

PART 3 - Cast-in-place architectural concrete subcontractor.

2. Review concrete finishes and finishing, cold- and hot-weather concreting procedures, curing procedures, construction joints, forms and form-removal limitations, reinforcement accessory installation, concrete repair procedures, decorative lighting, and protection of cast-in-place architectural concrete.

C. Action Submittals

Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments. Indicate amounts of mixing water to be withheld for later addition at Project site.

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Formwork Shop Drawings: Show formwork construction including form-facing joints, rustications, construction and contraction joints, form joint-sealant details, form tie locations and patterns, inserts and embedments, cutouts, cleanout panels, and other items that visually affect cast-in-place architectural concrete

Placement Schedule: Submit concrete placement schedule before start of placement operations. Include locations of all joints including construction joints.

Samples: For each of the following materials:

- 1) Form-facing panel.
- 2) Form ties.
- 3) Form liners.
- 4) Coarse- and fine-aggregate gradations.
- 5) Chamfers and rustications.

D. Informational Submittals

Material Certificates: For each of the following:

- 1) Cementitious materials.
- 2) Admixtures.
- 3) Form materials and form-release agents.
- 4) Repair materials.

Material Test Reports: For all aggregates, by a qualified testing agency

E. Quality Assurance

Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

Source Limitations for Cast-in-Place Architectural Concrete: Obtain each color, size, type, and variety of concrete material and concrete mixture from single manufacturer with resources to provide cast-in-place architectural concrete of consistent quality in appearance and physical properties.

ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:

- 1) ACI 301, "Specification for Structural Concrete
- 2) ACI 303.1, "Specification for Cast-in-Place Architectural Concrete."

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Concrete Testing Service: The Owner will engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures. The Contractor may, at their own expense, elect to perform materials testing.

Mockups: Before casting architectural concrete, the Engineer may require the contractor to build mockups to demonstrate typical joints, surface finish, texture, tolerances, and standard of workmanship. Obtain Engineer's approval of mockups before casting architectural concrete. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

b. Materials

A. Form-Facing Materials

General: Comply with Division 03 Section "Cast-in-Place Concrete" for formwork and other form-facing material requirements.

Chamfer Strips: Metal, rigid plastic, elastomeric rubber, or dressed wood, 3/4 by 3/4 inch (19 by 19 mm), minimum; nonstaining; in longest practicable lengths.

Form Joint Tape: Compressible foam tape; pressure sensitive; AAMA 800, "Specification 810.1, Expanded Cellular Glazing Tape"; minimum 1/4 inch (6 mm) thick.

Form Joint Sealant: Elastomeric sealant complying with ASTM C 920, Type M or Type S, Grade NS, that adheres to form joint substrates.

Sealer: Penetrating, clear, polyurethane wood form sealer formulated to reduce absorption of bleed water and prevent migration of set-retarding chemicals from wood.

Form-Release Agent: Commercially formulated, colorless form-release agent that will not bond with, stain, or adversely affect architectural concrete surfaces and will not impair subsequent treatments of those surfaces. Formulate form-release agent with rust inhibitor for steel form-facing materials.

Surface Retarder: Chemical liquid set retarder, for application on form-facing materials, capable of temporarily delaying final hardening of newly placed concrete surface to depth of reveal specified.

Form Ties: Factory-fabricated, glass-fiber-reinforced plastic ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal. Provide in the structural design of the forms the location of ties within the joints such that patches of tie holes will be in joints. Furnish internally disconnecting ties that will leave no metal closer than 1-1/2 inches (38 mm) from the architectural concrete surface.

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B. Concrete Materials

A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:

Portland Cement: ASTM C 150, Type I. The provider may supplement Portland Cement with the following:

- 1) Fly Ash: ASTM C 618, Maximum 25% of total cementitious material for Class C and 20% of total cementitious material for Class F. Minimum amount of fly ash, when used 15% of total cementitious material.
- 2) Ground Granulated Blast-Furnace Slag: ASTM C 989, Grade 100 or Grade 120. Maximum 50 percent of total cementitious material.
- 3) Silica Fume: ASTM C 1240, amorphous silica. Maximum 7.5 percent of total cementitious material.
- 4) Combined pozzolanic mineral admixture or fly ash, and silica fume: 30% by total cementitious material with fly ash or pozzolans not exceeding 25%.
- 5) Combined fly ash or other pozzolans, ground granulated blast-furnace slag and silica fume: 50% of total cementitious material.

Use cementitious material that is of same brand and type and from same plant as used in the concrete mix design submittal.

B. Normal-Weight Aggregates: To match sidewalk aggregate source, ASTM C 33

C. Normal-Weight Fine Aggregate: To match sidewalk aggregate source, ASTM C 33

D. Water: Potable, complying with ASTM C 94/C 94M except free of wash water from mixer washout operations.

C. Admixtures

Air-Entraining Admixture: ASTM C 260.

Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

- 1) Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
- 2) Retarding Admixture: ASTM C 494/C 494M, Type B.
- 3) Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
- 4) High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
- 5) High-Range, Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type G.
- 6) Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.

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D. Curing Materials

Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. (305 g/sq. m) when dry.

Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.

Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B.

E. Repair Materials

Bonding Agent: ASTM C 1059/C 1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

Epoxy Bonding Adhesive: ASTM C 881/C 881M, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade to suit requirements. Types I and II, non-load bearing for bonding hardened or freshly mixed concrete to hardened concrete.

F. Concrete Mixtures, General

Prepare design mixtures for each type and strength of cast-in-place architectural concrete proportioned on basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Use a qualified independent testing agency for preparing and reporting proposed design mixtures based on laboratory trial mixtures.

Proportion concrete mixtures as follows:

- 1) Compressive Strength (28 Days): 4000 psi (27.6 MPa) (20.7 MPa).
- 2) Maximum Water-Cementitious Materials Ratio: 0.46.
- 3) Slump Limit: 4 inches (100 mm), plus or minus 1 inch (25 mm).
- 4) Air Content: 6 percent, plus or minus 1.5 percent at point of delivery.

Admixtures: Use admixtures according to manufacturer's written instructions.

G. Concrete Mixing

Ready-Mixed Architectural Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M and furnish batch ticket information.

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- 1) Clean equipment used to mix and deliver cast-in-place architectural concrete to prevent contamination from other concrete.
- 2) When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

c. Construction Methods

- A. Formwork (applies to Concrete Planter Curb and Concrete Seatwall)

Limit deflection of form-facing panels to not exceed ACI 303.1 requirements.

In addition to ACI 303.1 limits on form-facing panel deflection, limit cast-in-place architectural concrete surface irregularities, designated by ACI 347 as abrupt or gradual, as follows:

- 1) Class B, 1/4 inch

Fabricate forms to result in cast-in-place architectural concrete that complies with ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

Forms for curved walls are to be created in a continuous curve, and not out of individual straight form panels.

Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast-in-place surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical. Kerf wood rustications, keyways, reglets, recesses, and the like, for easy removal.

Seal form joints and penetrations at form ties with form joint tape or form joint sealant to prevent cement paste leakage.

Do not use rust-stained steel form-facing material.

Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.

Chamfer exterior corners and edges of cast-in-place architectural concrete, as indicated on the drawings.

Coat contact surfaces of wood rustications and chamfer strips with sealer before placing reinforcement, anchoring devices, and embedded items.

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Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.

Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.

Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.

Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

Coat contact surfaces of forms with surface retarder, according to manufacturer's written instructions, before placing reinforcement.

Place form liners accurately to provide finished surface texture indicated. Provide solid backing and attach securely to prevent deflection and maintain stability of liners during concreting. Prevent form liners from sagging and stretching in hot weather. Seal joints of form liners and form liner accessories to prevent mortar leaks. Coat form liner with form-release agent.

B. Removing and Reusing Forms

Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than 50 deg F (10 deg C) for 24 hours after placing concrete if concrete is hard enough to not be damaged by form-removal operations and curing and protection operations are maintained.

Schedule form removal to maintain surface appearance that matches approved.

Cut off and grind glass-fiber-reinforced plastic form ties flush with surface of concrete.

Clean and repair surfaces of forms to be reused in the Work. Do not use split, frayed, delaminated, or otherwise damaged form-facing material. Apply new form-release agent.

When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for cast-in-place architectural concrete surfaces.

C. Joints

Construction Joints: Construction joints are not allowed on poured walls.

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Contraction Joints: Form weakened-plane contraction joints true to line with faces perpendicular to surface plane of cast-in-place architectural concrete so strength and appearance of concrete are not impaired, at locations indicated or as approved by Engineer.

D. Concrete Placement

Before placing concrete, verify that installation of formwork, form-release agent, reinforcement, and embedded items is complete and that required inspections have been performed.

Do not add water to concrete during delivery, at Project site, or during placement unless approved by Engineer.

Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.

Deposit concrete continuously. Deposit concrete to avoid segregation.

- 1) Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
- 2) Consolidate placed concrete with mechanical vibrating equipment according to ACI 303.1.
- 3) Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches (150 mm) into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. Do not permit vibrators to contact forms.

Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.

- 1) When average high and low temperature is expected to fall below 40 deg F (4.4 deg C) for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
- 2) Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
- 3) Do not use calcium chloride, salt, or other materials containing antifreeze agents.
- 4) Do not use chemical accelerators unless otherwise specified and approved in design mixtures.

Hot-Weather Placement: Comply with ACI 301 and as follows:

- 1) Maintain concrete temperature below 90 deg F (32 deg C) at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid

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nitrogen to cool concrete is Contractor's option.

- 2) Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

E. Finishes, General

Architectural Concrete Finish: Match Engineer's design reference sample, identified and described as indicated, to satisfaction of Engineer.

Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces.

Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

Maintain uniformity of special finishes over construction joints unless otherwise indicated.

F. As-Cast Formed Finishes

Smooth-Rubbed Finish: Not later than one day after form removal, moisten concrete surfaces and rub with carborundum brick or another abrasive until producing a uniform color and texture. Do not apply cement grout other than that created by the rubbing process.

G. Concrete Protecting and Curing

General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and with ACI 301 for hot-weather protection during curing.

Begin curing cast-in-place architectural concrete immediately after removing forms from concrete. Cure according to ACI 308.1, by one or a combination of the following methods that will not mottle, discolor, or stain concrete:

Moisture Curing: Keep exposed surfaces of cast-in-place architectural concrete continuously moist for no fewer than seven days with the following materials:

- 1) Continuous water-fog spray.
- 2) Absorptive cover, water saturated and kept continuously wet. Cover concrete surfaces and edges with 12-inch (300-mm) lap over adjacent absorptive covers.
- 3) Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for no fewer than seven days. Immediately repair any holes or tears during curing period; use cover material and waterproof tape.

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- 4) Curing Compound: Mist concrete surfaces with water. Apply curing compound uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

H. Repairs, Protection, and Cleaning

Repair and cure damaged finished surfaces of cast-in-place architectural concrete when approved by Engineer. Match repairs to color, texture, and uniformity of surrounding surfaces and to repairs on approved mockups.

Remove and replace cast-in-place architectural concrete that cannot be repaired and cured to Engineer's approval.

Protect corners, edges, and surfaces of cast-in-place architectural concrete from damage; use guards and barricades.

Protect cast-in-place architectural concrete from staining, laitance, and contamination during remainder of construction period.

Clean cast-in-place architectural concrete surfaces after finish treatment to remove stains, markings, dust, and debris.

Wash and rinse surfaces according to concrete finish applicator's written instructions. Protect other Work from staining or damage due to cleaning operations.

Do not use cleaning materials or processes that could change the appearance of cast-in-place architectural concrete finishes.

- d. **Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

PAY ITEM

PAY UNIT

DS_DDA Planter Curb..... Linear Foot

Payment for these items includes all materials, labor and equipment necessary to complete the work as described, including, but not limited to, excavation, base prep, stone base, forming and reinforcing planter curbs, installing and backfilling, pouring and finishing planter curbs.

Plant material, planting soil mix, mulch, underdrains, and irrigation system will be paid for separately.

DDA Planter Curb will be measured in place at the center line of the curb.

CITY OF ANN ARBOR

DETAILED SPECIFICATION
FOR
TREE GRATE, 4 ft. x 8 ft.

OHM:RQH:CSS

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01/19/2026

a. Description. This work consists of furnishing and installing cast iron tree grates and their frames. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.

b. Materials.

Provide iron castings conforming to section 908 of the MDOT Standard Specification for Construction that come with a 10-year warranty against breakage. Tree grates and frames are to be the sizes and configurations noted on the plans, with openings slots in a pattern that conforms to ADA guidelines.

Tree grate castings and frames to be furnished and manufactured by Urban Accessories of Tacoma, WA (phone is 877-487-0488). Contractor is to provide the specified tree grate casting and frame and tree guard, or an equal product approved by the Engineer; as follows:

- A. Tree Grate, 4 ft. x 8 ft.: Shall be 4 ft. x 8 ft. in size (nominal), "Kiva" model, with Urban Accessories manufactured frame, and supports.

All castings will be made of Ductile Iron meeting ASTM A536 Class 65-45-12 and will include a Liquid Coat finish in black per manufacturer's process. Ensure all anchoring bolts, nuts, washers, and all other hardware for installation meet the manufacturer's recommendation.

The tree grate shall be rated to support light vehicular traffic loads.

Furnish certification regarding the compliance of materials incorporated in the work, for approval by Engineer prior to installation.

Ensure all anchoring bolts, nuts, washers, and all other hardware for installation meet the manufacturer's recommendation.

Furnish certification and product shop drawings regarding the compliance of materials incorporated in the work, for approval by Engineer prior to installation.

Provide Root Ball Stabilizers and Root Barriers for each Tree Grate location.

Root Ball Stabilizers manufactured by Tree Staple, 444 Mercer Street, Stirling, NJ 07980 (phone is 908-626-9300) | sales@treestaple.com. Contractor is to provide the specified or an equal product approved by the Engineer; as follows:

- A. TS36-10-10 for 2" to 4" Caliper Trees. 10-3/4" x 36-3/4" depth. Constructed of uncoated, cold rolled, plain carbon steel.

Root Barriers manufactured by DeepRoot Green Infrastructure, LLC. 1032 Irving Street, #614, San Francisco, CA 94122-220 (phone is 415 781 9700) | info@deeprooot.com. Contractor is to provide the specified or an equal product approved by the Engineer; as follows:

DETAILED SPECIFICATION
FOR
TREE GRATE, 4 ft. x 8 ft.

OHM:RQH:CSS

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- A. UB 12-2, 24" x 12", Recycled, high-quality 90% post-industrial injection molded co-polymer polypropylene. Manufactured in ISO 9001 certified factories.

c. Construction Methods

A. Fabrication

1. Ensure all tree grate castings are manufactured true to pattern and component parts must fit together in a uniform manner and will accommodate the concrete base, brick thickness, and brick leveling thickness.
2. Ensure castings are free of all defects and cleaned by shot blasting.
3. Provide tree grate frames that are suitable for anchoring into the different adjacent paving types. Coordinate fabrication and delivery of frames with the concrete installer so that the frames can be installed during paving operations.

B. Installation

1. Tree Grate:

- Square up the frame sections and bolt them together. Install the tree grate frame flush and on a plane with the proposed surrounding slope, prior to casting the concrete around it. Ensure that top of frame and tree grate is no greater than 1/8-inch higher or lower than adjacent pavement surfaces and meets ADA requirements for public sidewalks.
- Set the grates flush with the top of the frame and ensure that the grate does not rock in the frame. Securely bolt grate halves together on the underside. Clean any foreign matter from the tree pits and grates prior to setting.
- If the Engineer believes that the product or the installation has resulted in either a poorly fitted grate and frame, an unsafe walking surface, or an unacceptable amount of rocking, they may reject the installed product and require a new installation and/or a new tree grate.

2. Root Ball Stabilizers:

- Determine the proper size tree stabilizer by measuring the depth of the root ball and adding a minimum of 12". This should equal the long prong size of the stabilizer.
- Proceed only after the proper size stabilizer has been selected and after the tree has been set in place
- If using a B&B tree, leave the burlap intact until the end of stabilizer installation.
- Install long prong tightly up against the outside edge of root ball. Position the short prong halfway between the trunk and the edge of root ball, avoiding any conflicts with visible roots.
- Using a sledgehammer, hammer down on the long prong until the short prong begins to penetrate the root ball. Then hammer back and forth between the long prong, crossbar, and short prong until the staple is

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FOR
TREE GRATE, 4 ft. x 8 ft.

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- recessed 1-3” into the top of the root ball.
- Repeat with remaining stabilizers in the same fashion, spacing evenly around the perimeter of the root ball.
- Remove any string and burlap from the top of root ball but leave burlap under the crossbar(s).
- Finish planting as normal.
- See manufacturer details and installation instructions for more detail.

3. Root Barriers:

- Inspect each Root Barrier for damage before placement. Reject any cracked or chipped units.
- Layout the Root Barrier according to the Project plans and specifications, if applicable.
- Install the Root Barrier system strictly according to the manufacturer’s instructions, as specified herein, and according to the Project plans and specifications. If requirements conflict or contradict, adhere to the more stringent requirements.
- Dig or trench to a depth based on the selected Root Barrier product depth plus 2 inches and as close to the face of the pavement profile as possible.
- Place the Root Barrier in the trench with the vertical ribs facing toward the tree, double top edge oriented upward, and as close to the pavement profile as possible.
- Keep the top edge of the Root Barrier at least 2 inches below the top of the pavement surface.
- Backfill against the Root Barrier to maintain a clean, smooth fit to the adjacent pavement profile with specified Project Planting Soil.
- See manufacturer details and technical specifications for additional installation guidelines.

C. Tolerances

1. Maximum Space Between Adjacent Sections: ¼ inch
2. Maximum Variation from Top Surface Plan of Adjacent Sections: 1/8 inch

d. **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_Tree Grate, 4 ft. X 8 ft..... Each

The unit price for “**Tree Grate, 4 ft. X 8 ft.**” shall include all labor, material, and equipment costs to perform all the work specified, including thickened concrete edge, frames, grates, hardware, and grate supports. Payment for this item shall also include furnishing and installing root ball stabilizers and root barriers for each tree grate location per Standard Detail SD-DDA-12 and this detailed specification.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
TREES AND PLANTINGS

OHM:RQH

1 of 4

01/19/2026

Description

This work shall consist of planting trees, shrubs, and plant materials at the locations shown on the plans or as directed by the Engineer. All work must be conducted in accordance with the City of Ann Arbor 2025 Public Services Standard Specifications and the Michigan Department of Transportation 2020 Standard Specifications for Construction, except as modified herein, or as directed by the Engineer.

Watering, removing weeds, and completing all necessary tasks to maintain a healthy stand of plants, and Balled and Burlapped (B&B) Trees shall be included in this work. Extent of work shall include a two year warranty and maintenance period, including but not limited to the following:

1. Watering
2. Weed Control
3. Mulching
4. Disease and Insect Control
5. Pruning
6. Fertilizer Application
7. Removal of Tree Support and Tags

The Contractor shall attend a site walkthrough to review final plantings within the project area.

Tree drip irrigation bags are in addition to planting specifications 815, 816 and 917 of the 2012 Michigan Department of Transportation Standard Specifications.

Materials

All planting methods and materials shall conform to Sections 815, 816 and 917 and the planting details shown on the plans. In addition, tree planting shall include Tree Drip Irrigation Bags and Watering and Cultivating.

All plant material shall be nursery grown, well formed, true to species, hardened off with vigorous root systems, full crown and canopies, and free from disease, pests and insects, and defects such as knots, sun scald, windburn, leaf dis-coloration, irregular branching or injuries.

1. Trees with damaged, crooked, or multiple leaders; tight vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crossing trunks; cut-off limbs more than 3/4 inch in diameter; or with stem girdling roots are unacceptable.

Secure Tree and plant types and sizes as shown on the Drawings or as directed by the Engineer. In the event that plant materials specified are not available, contact Landscape Architect for approved substitutions. No substitutions for Plant Materials will be allowed without prior written approval by the Landscape Architect.

The Contractor shall submit to the ENGINEER sources for all plant material.

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
TREES AND PLANTINGS

OHM:RQH

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Provide plant samples or photographs of each plant specified to the Landscape Architect for compliance review prior to installation.

Label at least one plant of each variety, size, and caliper with a securely attached, waterproof tag bearing legible designation of common name and full scientific name, including genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant.

All plant material delivered to the site is subject to the review of the landscape architect before, during and after installation.

Construction Methods

The construction methods shall be in accordance with the 2020 Michigan Department of Transportation Standard Specifications for Construction Section 815.03 unless otherwise stated in this special provision.

All open tree pits shall be excavated to the full extent of their dimensions as shown in the details.

Verify that all planting products, plant material, and plant quantities delivered to the site match what is indicated on the plans and specifications.

Protect all plant material during delivery to prevent damage to root balls, trunks, branches and the desiccation of leaves. Protect all plant material during shipping with shade cloth or ship with enclosed transport. Maintain protections and health of plant material stored on site. Handle all trees with nylon straps. No chains or cables will be allowed. Remove unacceptable plant material immediately from the site.

Examine areas to receive plants, with Installer present, for compliance with requirements and conditions affecting installation and performance of the Work.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
3. Uniformly moisten excessively dry soil that is not workable or which is dusty.

All planting areas shall be weed free prior to planting installation.

Protect structures, utilities, sidewalks, pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

Lay out individual tree and shrub locations and areas for multiple plantings. Stake all bed lines, tree locations, and outline areas, adjust locations when requested, and obtain Landscape Architect's acceptance of layout before excavating or planting. Make minor adjustments as required.

All Planting procedures are subject to the review of the Landscape Architect and the contractor

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shall correct any deficiencies found at no additional cost to the Owner.

Test fill all tree and planting pits with water, prior to planting, to assure proper soil percolation. Pits which do not adequately drain shall be further excavated to a depth sufficient for drainage to occur and/or backfilled with suitable drainage gravel. No allowances shall be made for plant material loss due to improper drainage. Contractor shall replace lost plant material with same size and species at no additional cost to owner.

Notify Landscape Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.

Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions and warranty requirements.

Ground cover and Perennial plant planting:

1. Set out and space ground cover and plants other than trees, shrubs, and vines as indicated on Drawings in even rows with triangular spacing.
2. Use planting soil for backfill.
3. Dig holes large enough to allow spreading of roots.
4. For rooted cutting plants supplied in flats, plant each in a manner that minimally disturbs the root system but to a depth not less than two nodes.
5. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
6. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
7. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

Installation of slow-release watering device:

1. Provide one device for each tree.
2. Place device on top of the mulch at base of tree stem and fill with water according to manufacturer's written instructions.

During planting, keep adjacent paving and construction clean and work area in an orderly condition. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

Remove all planting and landscape debris from the project site and sweep and wash clean all paved and finished surfaces affected by the landscape installation. Remove surplus soil and waste material including excess subsoil, unsuitable soil, trash, and debris and legally dispose of them off Owner's property.

Protect plants from damage due to landscape operations and operations of other contractors and trades. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged plantings.

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Watering and Cultivating shall follow the schedule in the 2020 Michigan Department of Transportation Standard Specifications for construction Section 815 with the adjustment of filling the tree drip irrigation bags with water and using the fertilizer as dictated in this special provision. For each watering and cultivating visit, verification in the form of a report of maintenance activities and certified payroll covering visits, shall be provided to the OWNER by the end of each month that the visits have taken place.

Measurement and Payment

The completed work as measured shall be paid for at the Contract unit price for the following Contract items (pay items):

<u>Pay Item</u>	<u>Pay Unit</u>
Tree, Large, B&B	Each
Aesculus x carnea (Red horsechestnut), 3" cal.	
Ginkgo biloba (Maidenhair tree), 3" cal.	
Gleditsia triacanthos inermis (Thornless honey locust), 3" cal.	
Nyssa sylvatica (Tupelo), 3" cal.	
Syringa reticulata (Japanese tree lilac) 3" cal	
Zelkova serrata (Japanese zelkova) 3" cal.	
 Plant, Gal	 Each
Cenchrus alopecuroides 'burgundy bunny' (Burgundy Bunny dwarf fountain grass)	
Coreopsis auriculata `nana` (Dwarf lobed tickseed)	
Arctostaphylos uva-ursi 'massachusetts' (Massachusetts kinnikinnick)	
Pachysandra terminalis 'green carpet' (Green carpet Japanese pachysandra)	
Monarda x `petite delight` (Petite delight bee balm)	

Measurement and payment for the item Trees and Plantings shall include excavation, backfilling, tree drip irrigation bags, water, and all other equipment necessary, and as described herein, for a complete installation. Warranty and maintenance for two seasons shall also be included in the prices provided under this allowance.

The final inspection of all planting work under the Contract will be made by the Contractor and Engineer at the end of the maintenance and establishment periods. Before final acceptance is given, the terms of the establishment shall be met and the site shall be cleared of all debris, soil and containers.

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- a. Description.** Furnish, install, and test irrigation system using the backflow preventor, quick coupling valves, piping, fittings, etc., of sizes and types as shown on the plans and as specified. All work shall conform to the building codes of the City of Ann Arbor.

The irrigation system shall be constructed to grades and conform to areas and locations as shown. Layout shown is essentially diagrammatic and may require adjustment to meet site constraints. Layout of system shown shall be exceeded only with the permission of the Engineer.

Unless otherwise specified or indicated, the construction of the irrigation system shall include furnishing, installing and testing of all mains backflow preventors, laterals, risers and fittings, control valves, and other necessary specialties, the removal and restoration of existing improvements, excavating and backfill, and all other work in accordance with the Contract Documents as required for a complete system.

1. References.

American Society of Mechanical Engineers (ASME)

- A. B16.1 - Cast Iron Pipe Flanges and Flanged Fittings.

American Society for Testing and Materials (ASTM)

- A. D1557 - Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method
- B. D1784 - Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
- C. D1785 - Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120.
- D. D2241 - Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR-Series).
- E. D2466 - Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40.
- F. D2467 - Specification for Socket-Type Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80.
- G. D2564 - Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems.
- H. D2672 - Specification for IPS PVC Pipe Using Solvent Cement.
- I. D3139 - Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals.

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Michigan Department of Transportation (MDOT)

- A. Standard Specifications for Construction 2020.

National Fire Protection Association (NFPA)

- A. 70 - National Electrical Code. Test Reports

2. Submittals:

- A. **Installer Qualifications:** An employer of workers that includes a certified irrigation designer qualified by The Irrigation Association.
- B. **Shop Drawings and Equipment Product Information:** Submit product information on all sprinklers, controllers, moisture sensors, hydrometers, enclosures, nozzles, swing joints, quick coupling valves, isolation valves, sleeving, control valves, wire conduit, PVC and polyethylene pipe, all pipe fittings, backflow preventer, copper pipe and fittings, wire, two-wire cable, decoders, surge arrestors, rain sensors, grounding rod, grounding plate, wire connectors, solvent and primer for PVC pipe, stainless steel clamps, and valve boxes to be used on the project.
- C. **Record Drawings and Instructions:** Furnish record drawings showing actual location of all valves, drains, pipe, wiring and controls to scale with dimensions. In addition, submit two bound copies of an owner's manual, each containing operational sheets, maintenance manual, and parts lists covering all system components.

3. Delivery, storage, and handling:

- A. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.
- B. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending

b. Materials.

1. Pipe, Sleeving, and Fittings:

- a. Pipe sizes and type shall conform to those shown on the drawings. No substitutions of smaller pipe sizes will be permitted, but substitutions of larger size may be approved. All pipe damaged or rejected because of defects shall be removed from the site at the time of said rejection.
- b. Provide PVC pipe continuously and permanently marked with manufacturer's name or trademark, size schedule and type of pipe working pressure at 73 degrees F. and National Sanitation Foundation (NSF) approval.
- c. Saddle and cross fittings are not permitted. Use male adapters for plastic to metal connections. Hand-tighten male adapters plus one turn with a strap wrench.
- d. Refer to plans for PVC mainline and sleeving size and pipe type.

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- e. PVC pipe fittings shall be solvent weld, schedule 80 PVC.
- f. All above grade pipe shall be hard copper. Fittings shall be cast brass or wrought copper.

2. Quick Coupling Valves:

- a. Quick coupler valves shall be as noted in the irrigation legend.
- b. Quick couplers shall have one piece body and stabilizer and 3/8" re-rod to stabilize quick coupler and prevent movement during quick coupler activation.
- c. Furnish to the City, four (4) valve keys with hose swivels.
- d. Prior to initiating work, obtain Owner approval of all valve locations to prevent conflicts with plant material and planting bed cultivation methods.

3. Valve Boxes:

- a. Valve access boxes shall be manufactured by Carson, Pentek, NDS, or Rainbird and be of locking type including locking bolt.
- b. Valve Access Boxes to be tapered enclosure of rigid plastic material comprised of fibrous components chemically inert and unaffected by moisture corrosion and temperature changes.
- c. Valve box sizes shall be as indicated in the irrigation details for the specific valve.
- d. Provide locking lid of same material black in color.
- e. Provide and install bolt on all boxes to facilitate locking the valve box lid.
- f. Boxes to be of minimum size required to permit access to the valve. Side walls to extend at least 2" below the bottom of valve body; use extension as necessary.
- g. Valve access boxes shall have rot proof landscape filter fabric liner 3/4" washed crushed stone sump.

4. Accessories:

- a. Drainage fill: 3/4" crushed stone to 6" below bottom of box.
- b. Fill shall be clean soil free of stones larger than 2" diameter, foreign matter, organic material and debris.
- c. Provide imported fill material as required to complete the work. Obtain rights and pay all costs for imported materials.
- d. Suitable excavated materials removed to accommodate the irrigation system work may be used as fill material subject to the Owner's review and acceptance.

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5. Backflow Prevention Device:

- a. Backflow preventer shall be FEBCO 825YA RPZ backflow preventer.
- b. Provide and install the backflow prevention device as noted on plans, including the device enclosure and all accessories and piping.

6. Meter Pit:

- a. Meter pit boxes shall be 1730C-18 meter boxes manufactured by ej (product number 32417301).
- b. Meter box covers shall be 1730 meter box covers manufactured by ej (product number 32131750A01).
- c. Provide and install the City supplied ¾" meter and meter pit as noted on plans, including the meter enclosure and all accessories and piping.

c. Construction Methods.

1. Quality Assurance:

- a. A competent superintendent satisfactory to the Engineer, with authority to act in all matters pertaining to the Work, shall be present on the project site during all installation.
- b. All work beyond the corporation stop and shut off gate valve/box and is to be performed by a licensed plumber and will require a plumbing permit and all necessary inspections by the City of Ann Arbor Planning and Development Services Unit.

2. Job Conditions:

- a. Submission of a proposal shall be considered evidence that the site, Drawings and Specifications have been examined and accepted.
- b. Report to the Engineer any deviations between Drawings, Specifications and the site. Failure to do so prior to the installation of equipment and which results in the replacement or relocation of equipment shall be at the Contractor's expense.
- c. The exact location of existing utilities, structures and underground utilities are not indicated; their locations shall be field verified prior to starting work, and installation of work shall proceed so as to prevent interruption of service or damage to them. Protect existing structures and utility services, and replace at Contractor's cost if damaged. Where conflicts occur, notify Engineer of relocations required to complete the Work.

3. Acceptance:

- a. Installation will be accepted only when the Contract is completed to the satisfaction of the Engineer.
- b. Prior to requesting inspections, adjust sprinkler heads, and automatic equipment to provide

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optimum performance. Submit accurate record drawings and operating instructions to the Engineer as a condition of final payment.

- c. After completion, testing and Provisional Acceptance of the system, instruct the Engineer's personnel in the operation and maintenance of the system.

4. Inspections for Acceptance of Work

- a. Inspections for Acceptance of the Work will occur at the time of Contract Substantial and Final Completion. Note that Substantial Completion constitutes start of the warranty period for the portion of the Work accepted, unless otherwise specified.

5. Examination:

- a. Examine final grades and installation conditions. Do not start irrigation system work until unsatisfactory conditions are corrected.
- b. The contractor shall energize all existing irrigation systems on the site prior to initiating any work. Contractor shall inventory all defects in the existing systems. Any defects found which will not be replaced with new irrigation shall be noted and brought to the attention of the Owner's representative.

6. Preparation:

- a. Coordinate all work with building trades, electricians, landscapers, paving contractors and all other contractors on the site.
- b. Have all utilities accurately marked by the utility provider and Owner prior to initiating any work.
- c. Layout and stake the location of each pipe and two-wire cable runs, sleeve locations, and all sprinkler heads and sprinkler valves. Obtain Landscape Architect's acceptance of layout prior to excavating, unless specifically waived by the Architect.

7. Excavating and Backfilling:

- d. Excavating shall be considered unclassified and shall include all materials encountered, except materials that cannot be excavated by normal mechanical means. Excavate trenches of sufficient depth and width to permit proper handling and installation of pipe and fittings. Excavate to depths required to provide 2" depth of earth fill or sand bedding for piping when rock or other unsuitable bearing material is encountered.
- e. Install sleeves for irrigation piping installed beneath paving. Minimum depth of bury for sleeves beneath roadways and drives to be 24" and 24" beneath walks.
- f. Extend ends of all sleeves 12" beyond back of curbs or walk edges.

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- g. Fill to match adjacent grade elevation with approved earth fill material. Place and compact fill in layers not greater than 8" depth.
 - h. Provide approved fine-grained earth fill or sand to point 4" above the top of pipe, where soil conditions are rocky or otherwise objectionable.
 - i. Fill to within 6" of final grade with approved excavated or borrow fill materials free of lumps or rocks larger than 2" in any dimension.
 - j. The top 6" of backfill shall be topsoil, free of rocks, subsoil or trash. Any special soil mixture shall be replaced to the original condition it was prior to irrigation installation.
 - k. Except as indicated, install irrigation mainline with a minimum cover of 24" based on finished grades. Install irrigation laterals with a minimum cover of 12" based on finished grades.
 - l. Excavate trenches and install piping and backfill during the same working day. Do not leave open trenches or partially filled trenches open overnight.
8. Copper Pipe, Meter and Backflow Preventer:
- a. The Contractor is responsible for scheduling the City's Public Works Unit to perform the required water main tap, service line and curb stop valve and box installation. The Contractor shall perform all necessary excavations for these installations.
 - b. Following completion of the 1" tap, Type 'K' copper water service line and curb stop valve and box by the City Public Works Unit, the Contractor shall install the 1" Type 'K' water lead, meter horn and backflow preventer as noted on plans, including the device enclosures and all accessories and piping. The City will install the 3/4" meter.
 - c. All work is to be performed by a licensed plumber and will require a plumbing permit and all necessary inspections by the City of Ann Arbor Planning and Development Services Unit. All permits for this work and associated inspections and fees are the responsibility of the Contractor.
 - d. The DDA will pay the City's Connection, Tap, and Meter fees associated with this work.
9. Plastic Underground Pipe:
- e. Install all plastic pipe in accordance with manufacturer's installation instructions as ASTM D-2274. Provide for thermal expansion and contraction.
 - f. Saw cut plastic pipe. Use a square-in-sawing vice, to ensure a square cut. Remove burrs and shavings at cut ends prior to installation.
 - g. Make PVC plastic-to-plastic joints with solvent weld joints. Use only primer and solvent recommended by the pipe manufacturer. Install plastic fittings in accordance with pipe manufacturer's instructions and ASTM D-2855. Contractor shall make arrangements with pipe manufacturer for all necessary field assistance.
 - h. Allow joints to set at least 24 hours before pressure is applied to the system.

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- i. Maintain pipe interiors free of dirt and debris. Close open ends of pipe by capping, taping or other acceptable method when pipe installation is not in progress.

10. Valve Installation:

- a. All quick coupler valves shall be enclosed in a valve box.
- b. Valve box size shall be installed with 10" valve box for quick couplers. Add extensions as required to prevent soil settlement around the valve. Set box flush with finish grade and aligned with adjacent boxes and/or adjoining site-work and at right angles to walks and drives.
- c. All valve boxes shall have locking bolt-down cover. Include locking bolt with all valve box installations.
- d. Install filter fabric inside valve box and install valve boxes on a suitable base of gravel to provide a level foundation at proper grade and to provide drainage of the access box. Support box with block or notch box to protect pipe under box.
- e. Provide all quick coupler valves with pre-fabricated three elbow swing joint, schedule 80 PVC.
- f. Fittings and pre-fabricated swing joint manufacturers shall be Spears, Lasco, or Dura.

11. Flushing and Testing:

- a. After all new quick couplers are in place and connected for a given section and all necessary division work has been completed, quick couplers shall be opened and a full head of water used to flush out the system. Ensure that all dirt and debris are flushed from piping before attaching hoses, sprinklers and other devices to any quick coupler.
- b. Sprinkler mains shall be tested under normal water pressure for a period of 12 hours. If leaks occur, repair and repeat the test. Give Owner 24 hours' notice prior to testing.
- c. Testing of the system shall be performed after completion of each section or completion of the entire installation; and any necessary repairs shall be made, at the Contractor's expense, to put the system in good working order before final payment by the Owner.
- d. Adjustment of the equipment will be done by the Contractor upon completion of installation to provide optimum performance. Repairs during the warranty period are to be performed by the Contractor. All adjustments during the guarantee period will be made by the Owner.

12. Clean Up:

- a. Contractor shall keep the premises free from rubbish and debris at all times and shall arrange his material storage so as not to interfere with the Owner's operation of the job. Contractor shall remove and legally dispose of all unused material, rubbish and debris, including unsuitable excavated material from the site.

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- d. **Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

PAY ITEM

PAY UNIT

DS_Irrigation System Lump Sum

DS_Irrigation System shall be paid for at the contract unit price on a lump sum basis, and shall include all labor, equipment and materials required to complete the work, including furnishing, installing, and testing the irrigation system described in this detailed specification and as shown on the drawings. The work shall include all submittals, permits and inspections including fees, excavation and properly compacted backfill, and other work incidental to complete installation of a fully operational system. The pay quantity will be a lump sum based on acceptance of the completed installation.

The conduit sleeves for the irrigation piping shall be included in this lump sum item and will not be paid for separately.

The water main taps, piping to the curb stop valve & box, curb stop valves & boxes, and meters associated with the Irrigation System will be provided and installed by the City of Ann Arbor. Payment for all applicable fees, charges for these items are to be paid by the Ann Arbor DDA. Payment for the Contractor's excavation and backfill associated with this work shall be included in this lump sum item and will not be paid for separately.

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a. Description. This work shall consist of removing parking meter standards and installing new meter standards where directed. All work must be conducted in accordance with the plans and specifications, the 2020 MDOT Standard Specification for Construction, and the City Standard Specifications.

b. Materials.

PCI Municipal Services will supply all standards. Standards are steel tubes 60" to 63" in length and 2" square.

All sand shall meet the gradation of MDOT Class II granular material in accordance with Section 902 of the 2020 MDOT Standard Specifications for Construction.

Concrete shall be Grade 3000 in accordance with Section 1004 of the MDOT 2020 Standard Specifications for Construction.

c. Construction Methods.

1. *Removal.* Meter standards requiring removal will be marked by the City. Prior to removal, contact PCI Municipal Services at least 4 days in advance at (734) 761-7235 or meterbags@municipalparking.com for the removal of the parking meter heads. The Contractor is not permitted to remove the meter heads, nor remove the standard with the meter head still in place.

- a. Following removal of the meter head by PCI Municipal Services, the Contractor shall remove the standard and concrete foundation. The void is to be backfilled with Class II Granular Material or Engineer approved backfill. The standards and concrete will then become of the property of the Contractor and shall be properly disposed of offsite.
- b. The drawings may indicate the removal and salvage of electronic parking pay machines. If directed by the Engineer, the Contractor will arrange with PCI Municipal Services to remove the equipment and store the equipment until redeployment. A minimum of 4 days' advance notice to PCI Municipal Services is required prior to removal of the equipment.

2. *Installation.* The City will stake the location for the new meter locations. The location is approximately 18" to 24" from curb line, and 48" from front end of stall for parallel parking.

- a. *Installation in sidewalk/concrete.* Core an 8" diameter hole through the concrete sidewalk at the meter location points. When working in close proximity of underground lines, use caution to avoid drilling beyond the thickness of the sidewalk in order to prevent damage to lines. For installation in new sidewalk, the standard may be installed prior to placing walk, or the walk may be placed around a form in the location of the proposed standard.

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- After drilling through the sidewalk, excavate approximately 30” deep, with an 8” diameter opening, and tapering outward to 10” at the bottom.
 - Set the standards into the concrete filled holes with the REAMED END to the TOP and WEEP HOLE on LOWER END FACING THE STREET. The meter standard is to project 37” above the sidewalk level.
 - Check the vertical plumb with the surface level, first in one direction and then in the other and then hold the standard securely in position with forms until the concrete has set.
 - After the standards have been plumbed, check the vertical alignment down the street and the height uniformity, making such corrections and adjustments as necessary.
- b. *Installation in soil.* Excavate holes approximately 30” deep, with an 8” diameter opening, and tapering outward to 10” at the bottom.
- Set the standards into the concrete filled holes with the REAMED END to the TOP and WEEP HOLE on LOWER END FACING THE STREET. The meter standard is to project 37” above the finished grade.
 - Check the vertical plumb with the surface level, first in one direction and then in the other and then hold the standard securely in position with forms until the concrete has set.
 - After the standards have been plumbed, check the vertical alignment down the street and the height uniformity, making such corrections and adjustments as necessary.

The Contractor is responsible for the protection of the standard until the concrete foundation has set. If the standard is not plumb upon curing of the foundation, then the standard will be removed and reset at the contractor’s expense. The Contractor shall use plastic drums and caution tape, “Wet Paint” signs, or other methods to protect the standards.

Meter heads will be installed by PCI Municipal Services upon installation of the standards.

The drawings may indicate the proposed location of electronic parking pay machines. If directed by the Engineer, the Contractor will install the equipment using the same materials and hardware type as was previously installed. The installation of this each station will paid for as “Parking Meter, Install.”

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- d. **Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

<u>PAY ITEM</u>	<u>PAY UNIT</u>
DS_Parking Meter, Rem.....	Each
DS_Parking Meter, Install.....	Each

DS_Parking Meter, Rem will be measured and paid by each parking meter standard completely removed. The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in this Detailed Specification. Disposal of standards, concrete foundations, and all excavated material is included in the unit prices for this item. Material to backfill voids after removing the standards is included in this pay item.

DS_Parking Meter, Install will be measured and paid by each parking meter standard installed. The unit price for this item of work shall include all labor, material, and equipment costs to perform all the work specified in this Detailed Specification.