

# ADDENDUM No. 1

## RFP No. 24-10

### 2024 Miscellaneous Utilities Project

**Due Date: March 5, 2024 by 11:00 a.m. (local time)**

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. **This Addendum includes a total of 18 pages.**

The Proposer is to acknowledge **receipt of this Addendum No. 1 by signing and submitting attachment B**, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

**The following forms provided within the RFP Document should be included in submitted proposal:**

- **Attachment D - Prevailing Wage Declaration of Compliance**
- **Attachment E - Living Wage Declaration of Compliance**
- **Attachment G - Vendor Conflict of Interest Disclosure Form**
- **Attachment H - Non-Discrimination Declaration of Compliance**

**Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.**

#### I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in their review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

<b>Section/Page(s)</b>	<b>Change</b>
<u>New Content</u> Add#1-6 – 8	Pre-Proposal Meeting Minutes
Exhibit	Overhead Line Clearances
Table 1 – Updated Orkney/Culver Fittings	22.5-degree bends that are changed to 45-degree bends
SD-ST-1A Rev. No. 00 – Standard Storm Manhole (Separate Base) Detail	Rubber boot connections and testing sleeve removed

Replace

Schedule of Pricing  
15 – 18

Modifications to pay items and quantities shown in bold  
New Item: 08010.00 – Aggregate Base Course, 21AA, CIP  
Quantity change:  
01004.71 DS\_Railroad Protection, Ann Arbor Railroad  
07011.02 8 In., 45° DIP Bend  
07011.03 8 In., 22.5° DIP Bend

Storm Precast Tee Detailed  
Specification: DS-19 – 20

Required frame and cover updated

Sheet 8 of 9  
Channel Profiles

Profiles updated

**II. QUESTIONS AND ANSWERS**

The following question has been received by the City. The response is being provided in accordance with the terms of the RFP. Bidders are directed to take note of the following questions and City responses in their review of the RFP as they affect work or details in other areas not specifically referenced here.

Question 1: Will the city be exempting a pig on the 20" watermain since there are 2 butterfly valves going in? Or will the pipe need to be installed in a way that pigs can still be pushed through the pipe?

Answer 1: A pig will not be required though butterfly valves, however pipe disinfection is still the responsibility of the contractor. If a high-density poly-pig is not used, extra effort must be made to keep the pipe clean and free of debris throughout construction.

Question 2: Some of the drawings for the 8" pipe call for 22.5-degree bends and it appears the bends needed would exceed the 22.5-degree bends, just wondering if the drawings and quantities for 22.5-degree bends are accurate.

Answer 2: Several 22.5-degree bends were mislabeled. The attached Table 1 shows the bends that are labeled on the plans as 22.5-degrees but drawn as and will be installed as 45-degree bends. The labels will be updated in a plan set that will be issued for construction after contract award. The Schedule of Pricing has been updated to reflect these quantity changes.

There are also four (4) 20-inch bends on sheet 24 of 46 that are labeled as 22.5-degree bends but drawn as 45-degree bends. These will be installed with 22.5-degree bends. The quantities will not change; the profiles will be updated in the construction plan set.

Question 3: Has the city given any thought as to how the trucking will be conducted on Huronview Blvd? Could a deal be made to use Research drive as a turn around?

Answer 3: The means and methods of construction is the responsibility of the contractor. Research Dr. is private property, and contractors must keep their operations within the public ROW (unless otherwise indicated in the plans). The City has no objection to a contractor reaching an agreement with a property owner for

permission to use private property. However, all efforts to obtain such an agreement is the responsibility of the contractor – the City of Ann Arbor will not be involved.

Question 4: Is the city alright if one or both lanes of Main St are blocked to back trucks in multiple times a day?

Answer 4: Main Street is an MDOT road, all lane closures and traffic control must be approved by MDOT. An MDOT permit will be obtained to close one lane in both directions to complete the work. Additional lane closures must be approved by MDOT.

Question 5: Is there an area where stone can be dumped and reloaded into smaller trucks so that trains and short doubles are not trying to back in off of Main St?

Answer 5: The space available to the contractor for materials, equipment, and operation is within the limits of the Huronview Blvd ROW. The City has no objection to a contractor reaching an agreement with a property owner for permission to use private property. However, all efforts to obtain such an agreement is the responsibility of the contractor – the City of Ann Arbor will not be involved.

Question 6: Is the Contractor responsible for obtaining the MDOT permit as well as paying the permit fees? If so, can you provide the approximate fee for the permit?

Answer 6: The City of Ann Arbor will obtain the MDOT permit and provide the contractor with a copy upon award of contract. The contractor is not responsible for fees related to applying for or obtaining the permit; however, the contractor is responsible for any and all fees and costs associated with permit compliance (e.g. costs associated with corrective actions, etc.).

Question 7: For the road work on Huronview Blvd, there is a note on sheet 5 stating that placing supplemental aggregate is incidental to the item Machine Grading, Modified – STA. Typically, this is covered with a 21AA Limestone, CIP item. Can you clarify that furnishing and placing supplemental aggregate is incidental to the item Machine Grading, Modified – STA? If so, would the supplemental aggregate be 21AA dense graded aggregate (limestone)?

Answer 7: Once the HMA is removed, the remaining base shall be graded using the excess suitable material from cut sections in fill sections. If supplemental aggregate is required after all existing suitable material is used, 21AA limestone shall be used to hone the grade, to be paid for as Aggregate Base Course, 21AA, CIP. This standard line item has been added to the Schedule of Pricing. The total cubic yards of Aggregate Base Course, 21AA, CIP shall be agreed upon by the foreman and the inspector at the end of each day this item is used.

If areas are identified to be undercut, the 21AA used shall be paid for as Subgrade Undercutting, Type III.

Question 8: How is the excavation for the proposed driveways and concrete approaches paid for?

Answer 8: The intent was to reuse the existing base on the driveways since the elevations are not changing. If an aggregate base is required, the excavation is incidental to Machine Grading or Machine Grading, Modified.

Question 9: Can a larger steel casing (36") be used for the jack and bore?

Answer 9: Yes, per Article 1 Section XXVI.A.1 of the Ann Arbor 2024 Standard Specifications, a 32-inch diameter casing pipe is the minimum allowable casing pipe diameter for a 20-inch carrier pipe. There is no objection to the use of a casing pipe with a larger diameter, however, all material requirements of Article 1 Section XXVI.B must be met.

Question 10: Do the storm manholes require booted connections?

Answer 10: No, the storm manhole detail (SD-ST-1A) was updated and is included in this addendum.

Question 11: The trench on Orkney and Culver looks small, will we be limited to that trench width?

Answer 11: No, see Note 6 on the removal pages for Orkney/Culver. Since the removals for Orkney/Culver should be limited to only what is required for the water main installation, the limits of HMA removal and associated quantities shown on the plans were based on the use of a trench box. However, there is extra quantity in the Schedule of Pricing based on a 1-on-1 side sloped trench.

Question 12: Can cleanup and restoration be conducted in a location while we start on another location?

Answer 12: Yes, each location must be substantially complete and open to traffic before starting on the next location.

Question 13: How was the dollar amount figured for the Railroad Protection? We feel this may not be enough money to cover the inspection from the railroad. Last time we had to work around the railroad it was roughly \$1,000 for an 8-hour shift and then over \$200/HR after 8 hours. They also requested they be onsite anytime we had equipment working anywhere inside the right of way.

Answer 13: The dollar amount has been increased to \$25,000.

Question 14: Will the City be pulling the Railroad Permit for the work at Boardwalk Dr? Does the item #01004.71: DS\_Railroad Protection, Ann Arbor Railroad cover both the permit fee and the railroad protection (flagging) costs?

Answer 14: Yes, the City is pulling the Railroad Permit. The permit fee will be covered by the City. *DS\_Railroad Protection, Ann Arbor Railroad* covers the flagging and insurance costs set by the railroad. If additional fees are required by the railroad, the city will pay the costs via a change order.

Question 15: What is the voltage of the overhead lines near the railroad culvert and what is the minimum clearance for them?

Answer 15: Voltages and clearances are shown in the Exhibit that is included in this addendum.

Question 16: Is there contamination suspected in the railroad ROW?

Answer 16: No contamination has been found on site; however, no soil borings were conducted. Any contamination identified must be handled in accordance with City standards.

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

**Pre-Proposal Meeting**  
**2024 Miscellaneous Utilities Projects**  
**February 20, 2024 via Microsoft Teams**

I. Introductions

Tracy Anderson – PM for all construction, PM for water main design  
Jerme Schrot – PM for railroad culver design

II. Project Overview

a. Work components

i. Huron View Blvd

1. 20 in water main replacement
2. Storm Inlet replacement
3. Road resurfacing
4. Jack and Bore under Main Street

ii. Orkney/Culver

1. 8 in water main replacement
2. Only pave trench

iii. AA Railroad/Boardwalk Culvert

1. Storm structure replacement
2. Access drive
3. Regrading

b. Engineer's estimate - \$5.3M

III. General Items

a. Proposal Submittals

i. Digital copy of schedule of pricing

1. An excel file can be provided per request to Tracy Anderson

b. Standard Specifications – NEW

i. Water main tracer wire

c. Detailed Specifications

i. Schedule and sequencing

1. Cannot work on more than one location at one time

ii. Water Main Transfer of Service

1. Develop a plan for transferring water services to minimize water main shut downs
2. The large main on Huron View is a transmission main and there is a retirement community on Huron View, so main shutdowns and interruptions to service must be limited as much as possible.

iii. Machine Grading

1. Earth excavation is included in grading
2. Huron View will be measured by station
3. Orkney/Culver will be measure by SY

- iv. Water main abandonment
  - 1. Paid for once per road to disconnect and properly abandon the water main from side streets
  - 2. 16" main on Huron View must be flowable filled. This is to ensure they do not break in the future as both mains have a large break history.
- v. Railroad Protection
  - 1. Railroad protection has been updated in the Schedule of Pricing to \$25,000. The City is currently working with the railroad to determine whether or not a railroad permit is necessary given that the work is within existing drainage easements. The intent is to have all permitting, if necessary, addressed prior to contract award.
- vi. Machine Grading, Special
  - 1. Machine grading for access drive and channels
- vii. Storm Sewer Removal
  - 1. The testing note in measurement and payment is a clarification that all materials suspected of contamination should be tested and/or removed and disposed of in accordance with the City's Standard Specifications. Article 10 item CC - Removal and Disposal of Contaminated Soil addresses many of those standards including that excavated material that cannot be otherwise be incorporated into the project shall become the property of the Contractor. All of the excavated material removals are incidental to the various project items and will not be paid separately.
- viii. Storm Precast Tee
  - 1. 90x48" pipe tee
  - 2. Joints will be mud or mastic collar in accordance with city standards
- ix. Temporary Access Drive
  - 1. For access to site
  - 2. Must be removed when project is complete
- x. Other
  - 1. Other detailed specs are to clarify pay items, things included in them and materials to use.
- d. Misc. construction items
  - i. Water is the only utility planned for Orkney/Culver – disturb as minimal as possible.
- e. Accessibility
  - i. Huron View MOT
    - 1. One southbound lane closure for bore pit
    - 2. One northbound lane closure for east connection
  - ii. Local Traffic must be maintained

1. Mail is delivered to mailboxes – must maintain access to mailboxes, with temporary mailboxes as needed
    2. Garbage day is Friday for Huron View and Orkney/Culver
  - iii. DTE temporarily relocating overhead lines and guy wires before project.
    1. Relocating the low voltage communications lines that are lowest on the pole. High tension lines are staying in place.
  - iv. AA Public Schools bus parking lot (Boardwalk)
    1. Ideally late summer (June 13 – Aug 26)
- f. Davis Bacon Wage Decisions
  - i. 10 days before proposals are due
- g. Addendum
  - i. Answer all questions received
  - ii. Pre-bid meeting minutes
  - iii. Updated bid form
    1. Updated excel file can be provided – email Tracy
  - iv. Minor plan clarifications/details

#### IV. Project Schedule

- a. Written Questions due Wednesday February 21, 2024 by 5:00PM
- b. Addendum anticipated by Friday, February 23, 2024
- c. Proposal Due, March 5, 2024 by 11:00AM
- d. Anticipated Council Award, April 15, 2024
- e. Construction Start, May 6, 2024



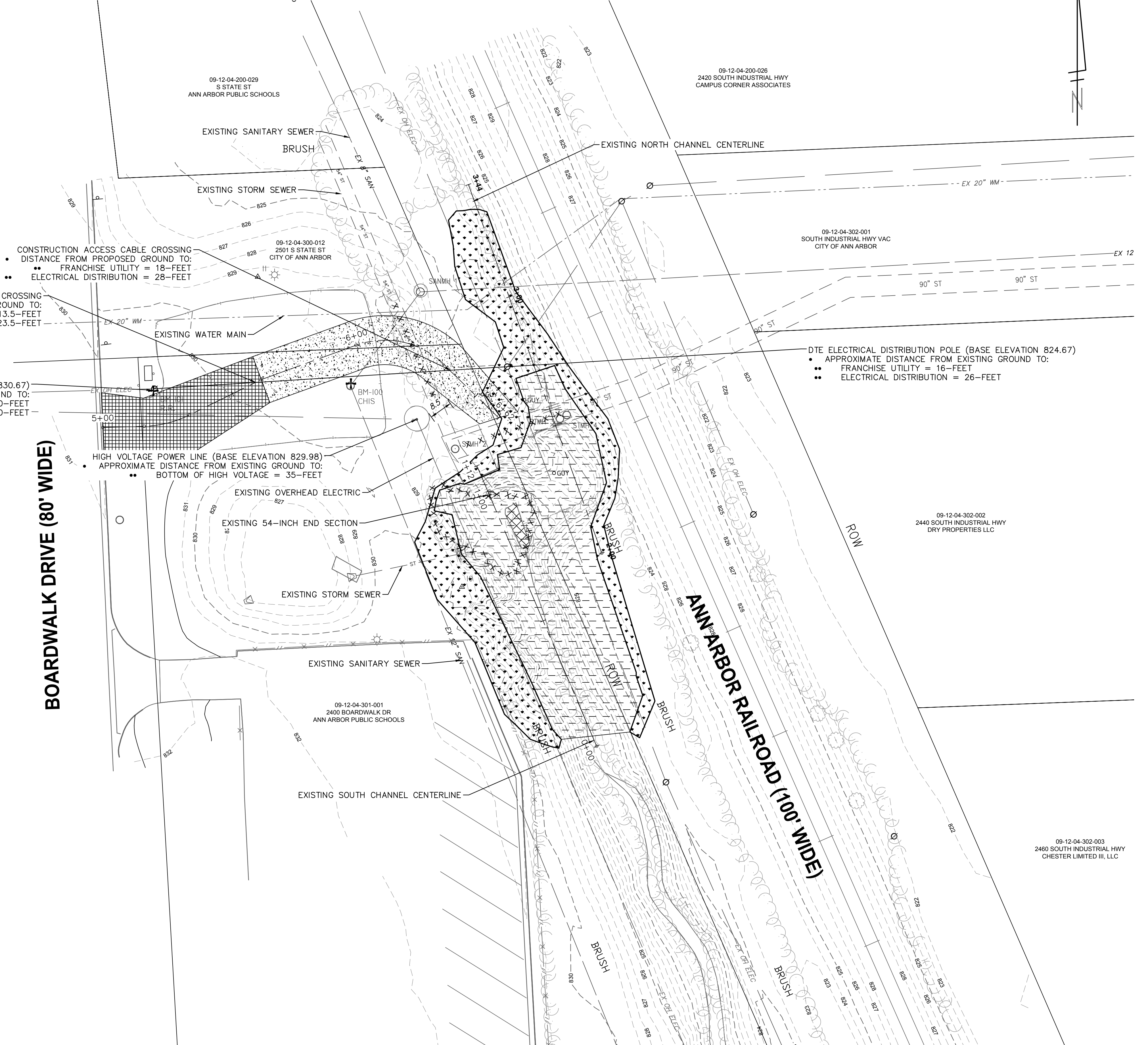
# EXHIBIT

NOTE - MINIMUM CLEARANCES

DTE ELECTRICAL DISTRIBUTION = 10-FOOT VERTICAL

CLEARANCE FROM PROPOSED GROUND TO HIGH VOLTAGE ELECTRICAL IS APPROXIMATELY 46-FOET

THE CITY HAS NOT BEEN ABLE TO CONFIRM THE VOLTAGE OF THE HIGH TENSION POWER LINES. WE SUSPECT THAT THE VOLTAGE IS UNDER 350 KV AND WOULD BE SUBJECT TO THE MINIMUM MIOSHA 20-FOOT VERTICAL CLEARANCE.

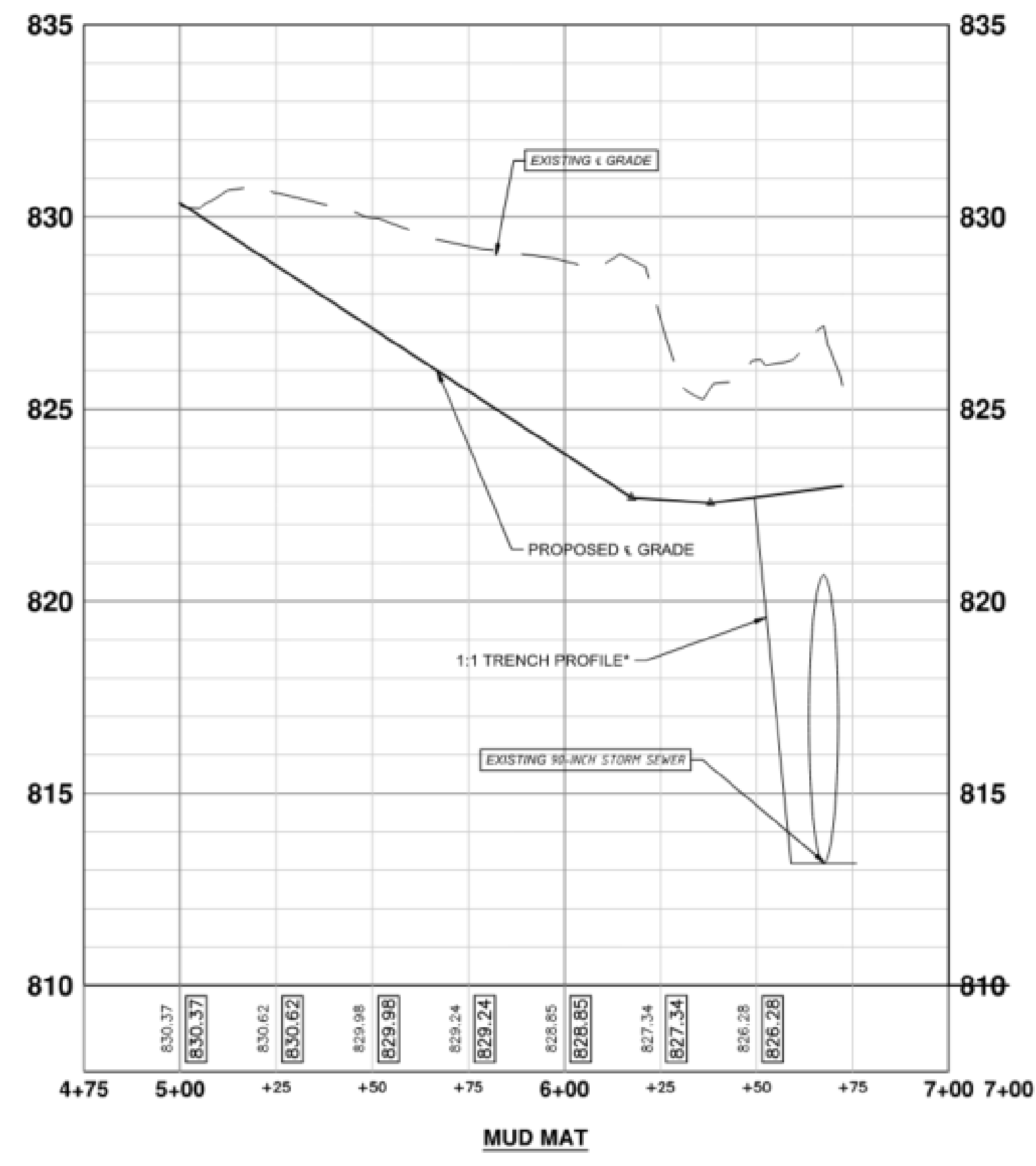


- CONSTRUCTION ACCESS CABLE CROSSING
  - DISTANCE FROM PROPOSED GROUND TO:
    - FRANCHISE UTILITY = 18-FOET
    - ELECTRICAL DISTRIBUTION = 28-FOET
- CONSTRUCTION ACCESS CABLE CROSSING
  - APPROXIMATE DISTANCE FROM PROPOSED GROUND TO:
    - FRANCHISE UTILITY = 13.5-FOET
    - ELECTRICAL DISTRIBUTION = 23.5-FOET

- DTE ELECTRICAL DISTRIBUTION POLE (BASE ELEVATION 830.67)
  - APPROXIMATE DISTANCE FROM EXISTING GROUND TO:
    - FRANCHISE UTILITY = 10-FOET
    - ELECTRICAL DISTRIBUTION = 20-FOET

- HIGH VOLTAGE POWER LINE (BASE ELEVATION 829.98)
  - APPROXIMATE DISTANCE FROM EXISTING GROUND TO:
    - BOTTOM OF HIGH VOLTAGE = 35-FOET

- DTE ELECTRICAL DISTRIBUTION POLE (BASE ELEVATION 824.67)
  - APPROXIMATE DISTANCE FROM EXISTING GROUND TO:
    - FRANCHISE UTILITY = 16-FOET
    - ELECTRICAL DISTRIBUTION = 26-FOET



\* CONSTRUCTION MEANS AND METHODS ARE THE CONTRACTORS RESPONSIBILITY AND ANYTHING CONVEYED ON THESE EXHIBITS SHOULD NOT BE CONSTRUED AS DIRECTION FOR CONSTRUCTING THE PROJECT.

J:\AA\Design\AA22004 - Ann Arbor Boardwalk Culvert\AA22004\_Rem1.dwg Dwg Created: 22-Feb-24 - \_o2 standard bw.stb - Plot Date: 22-Feb-24

REV.	DESCRIPTION	DATE	DRAWN	CHECKED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**  
**ANN ARBOR RAILROAD / BOARDWALK CULVERT IMPROVEMENTS PROJECT**

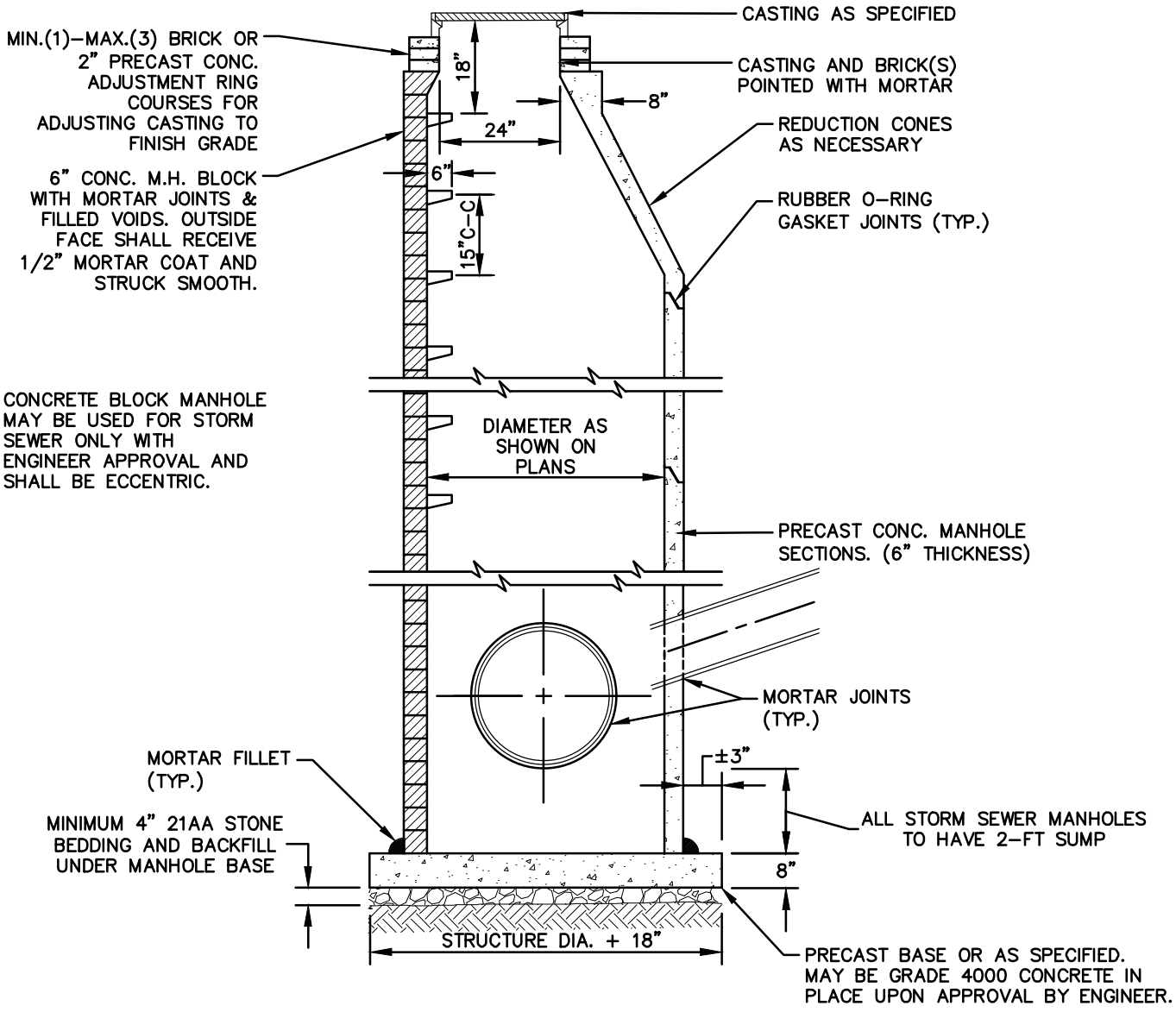
CITY OF ANN ARBOR  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-1667  
 ANN ARBOR: 734.794.4410  
 WWW.AA.GOV

SCALE PLAN: 1" = 20'  
 DRAWING No. **2022037**

SHEET No.

Table 1: Updated Orkney/Culver Fittings

SHEET	STATION	CURRENT INFORMATION			CORRECTED INFORMATION				
		FITTING	UNIT	QTY	FITTING	UNIT	QTY		
33	200+18	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
33	200+33	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
33	200+40	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
34	204+57	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
34	204+60	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
35 and 42	228+07	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	212+51	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	212+52	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	212+98	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	213+04	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	215+59	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	215+63	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	215+72	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36	215+73	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
36 and 42	229+07	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
37	217+34	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
37	217+36	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
37	217+42	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
37	217+46	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	223+12	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	223+14	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	223+25	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	223+28	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	224+04	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38	224+05	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38 and 42	231+14	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
38 and 42	231+16	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
41	301+76	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
41	301+78	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
41	302+02	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
41	302+05	22.5 Deg DIP Bend (V)	Ea	-1	45 Deg DIP Bend (V)	Ea	1		
		<b>Σ</b>			<b>-31</b>	<b>Σ</b>			<b>31</b>



**NOTES:**

1. ALL STORM MANHOLES MAY BE PRECAST CONCRETE OR MANHOLE BLOCK.
2. ALL MANHOLES MUST HAVE ECCENTRIC CONES.
3. ALL MANHOLE SECTIONS SHALL BE REINFORCED PER ASTM-185.
4. 2' SUMP REQUIRED ON ALL DRAINAGE STRUCTURES.
5. IF A FLAT TOP IS REQUIRED, THEN IT SHALL BE REINFORCED IN BOTH DIRECTIONS TO MEET ASTM C-615.



**CITY OF ANN ARBOR  
PUBLIC SERVICES**  
301 EAST HURON STREET  
P.O. BOX 8647  
ANN ARBOR, MI 48107-8647  
734-794-6410  
www.a2gov.org

00	2/21/24	ENG	CEC
REV. NO.	DATE	DRAWN BY	CHECKED BY
<b>STANDARD STORM MANHOLE (SEPARATE BASE)</b>			
DR. ENG	CH. ENG	DRAWING NO.	
SCALE N.T.S.	DATE 12/8/2023	<b>SD-ST-1A</b>	

**E. Schedule of Pricing/Cost – 20 Points**

**Company:**

**Project: 2024 Miscellaneous Utilities Project**

**File #: 2022-037; 2023-009**

**RFP#: 24-10**

ITEM NUMBER	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
<b>Project Wide</b>					
01000.00	General Conditions, Max \$250,00	LS	1	\$ _____	\$ _____
01001.00	Project Supervision, Max \$100,000	LS	1	\$ _____	\$ _____
01002.00	Project Clean-Up and Restoration	LS	1	\$ _____	\$ _____
01003.00	Digital Audio Visual Coverage	LS	1	\$ _____	\$ _____
<b>2024 Misc. Utilities</b>					
01000.00	<b>General</b>				
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	35	\$ _____	\$ _____
01022.00	Erosion Control, Silt Fence	Ea	150	\$ _____	\$ _____
01030.00	Tree Protection Fence	Ft	200	\$ _____	\$ _____
01040.00	Minor Traffic Control, Max \$40,000	LS	1	\$ _____	\$ _____
01041.00	Traffic Regular Control	LS	1	\$ _____	\$ _____
01050.00	Sign, Type B, Temp, Prismatic, Furn and Oper	Sft	440	\$ _____	\$ _____
01051.00	Sign, Type B, Temp, Prismatic, Special, Furn and Oper	Sft	42	\$ _____	\$ _____
01052.00	Temporary "No Parking" Sign	Ea	100	\$ _____	\$ _____
01061.00	Lighted Arrow, Type B, Furn and Oper	Ea	1	\$ _____	\$ _____
01080.00	Plastic Drum, High Intensity, Lighted, Furn and Oper	Ea	86	\$ _____	\$ _____
01081.00	Channelizer Cone, High Intensity, 42 In., Furn & Oper	Ea	105	\$ _____	\$ _____
01092.00	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn and Oper	Ea	12	\$ _____	\$ _____
01100.00	Pedestrian Type II Barricade, Temp, Furn & Oper	Ea	25	\$ _____	\$ _____
01101.00	Pedestrian Channelizer Device, Furn & Oper	Ea	25	\$ _____	\$ _____
01102.00	Temporary Pedestrian Ramp, Furn & Oper	Ea	4	\$ _____	\$ _____
01103.00	Temporary Pedestrian Mat, Furn & Oper	Ft	100	\$ _____	\$ _____
01110.00	Pavt Mrkg, Longit, Remove	Ft	700	\$ _____	\$ _____
01120.00	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 In., White	Ft	1,500	\$ _____	\$ _____
01121.00	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 In., Yellow	Ft	2,765	\$ _____	\$ _____
02000.00	<b>Removals</b>				
02000.01	Tree, Rem, 6 In. - 12 In.	Ea	2	\$ _____	\$ _____
02000.02	Tree, Rem, 13 In. - 19 In.	Ea	1	\$ _____	\$ _____
02000.04	Tree, Rem, 30 In. - 39 In.	Ea	1	\$ _____	\$ _____
02010.00	Stump, Rem	Ea	1	\$ _____	\$ _____
02020.00	HMA, Any Thickness, Rem	Syd	7,100	\$ _____	\$ _____
02025.00	Concrete Pavt, Any Thickness, Rem	Syd	35	\$ _____	\$ _____
02030.00	Curb, Gutter, and Curb and Gutter, Any Type, Rem	Ft	1,900	\$ _____	\$ _____
02040.00	Sidewalk, Sidewalk Ramp, & Driveway Approach, Any Thick, Rem	Sft	1,300	\$ _____	\$ _____
03000.00	<b>Earthwork</b>				
03000.70	DS_Machine Grading, Modified	Sta	10.75	\$ _____	\$ _____
03001.70	DS_Machine Grading	Syd	2,900	\$ _____	\$ _____
03022.00	Subgrade Undercutting, Type III	Cyd	225	\$ _____	\$ _____

03030.01	Exploratory Excavation, SD-TD-1, (0-10' deep)	Ea	5	\$	\$
<b>04000.00</b>	<b>Sanitary Sewer</b>				
04000.01	8 In., SDR 26 PVC Sanitary Sewer, SD-TD-2	Ft	5	\$	\$
04060.00	Sanitary Structure Cover	Ea	5	\$	\$
04061.00	Sanitary Structure Cover, Adjust	Ea	6	\$	\$
04080.01	Sanitary Sewer Pipe, 8 In. Dia, Rem	Ft	5	\$	\$
<b>06000.00</b>	<b>Storm and Drainage</b>				
06000.01	12 In., CI IV RCP Storm Sewer, SD-TD-1	Ft	165	\$	\$
06020.00	Pipe Undercut & Backfill, Storm	Cyd	2	\$	\$
06030.04	Storm Sewer Tap, 12 In. Dia	Ea	5	\$	\$
06060.73	DS_Storm Inlet-Junction, 48 In., Dia., (0-8' deep)	Ea	1	\$	\$
06070.71	DS_Storm Single Inlet, 24 In., Dia., (0-8' deep)	Ea	9	\$	\$
06120.03	Storm Sewer Pipe, 12 In. Dia., Rem	Ft	160	\$	\$
06140.00	Storm Sewer Structure, Rem	Ea	3	\$	\$
06150.00	Storm Sewer Drop Structure, Rem	Ea	7	\$	\$
06160.01	Storm Structure Cover	Ea	8	\$	\$
06160.02	Storm Structure Cover, Adjust	Ea	8	\$	\$
<b>07000.00</b>	<b>Water Main</b>				
07000.01	4 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	24	\$	\$
07000.02	6 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	120	\$	\$
07000.03	8 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	2,900	\$	\$
07000.05	12 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	20	\$	\$
07001.01	16 In., PC 250 DIP w/polywrap, SD-TD-1	Ft	30	\$	\$
07001.02	20 In., PC 250 DIP w/polywrap, SD-TD-1	Ft	1,370	\$	\$
07001.03	14 In., PC 350 DIP w/polywrap, SD-TD-1	Ft	20	\$	\$
07001.72	DS_20 In., PC 250 DIP w/polywrap, Bore and Jack	Ft	110	\$	\$
07009.03	4 In., 22.5° DIP Bend	Ea	3	\$	\$
07009.04	4 In., 11.25° DIP Bend	Ea	1	\$	\$
07010.03	6 In., 45° DIP Bend	Ea	1	\$	\$
07010.03	6 In., 22.5° DIP Bend	Ea	3	\$	\$
07011.02	8 In., 45° DIP Bend	Ea	38	\$	\$
07011.03	8 In., 22.5° DIP Bend	Ea	24	\$	\$
07011.04	8 In., 11.25° DIP Bend	Ea	24	\$	\$
07016.01	20 In., 90° DIP Bend	Ea	1	\$	\$
07016.02	20 In., 45° DIP Bend	Ea	5	\$	\$
07016.03	20 In., 22.5° DIP Bend	Ea	11	\$	\$
07016.04	20 In., 11.25° DIP Bend	Ea	14	\$	\$
07020.01	6 In. x 4 In. DIP Reducer	Ea	1	\$	\$
07020.03	8 In. x 6 In. DIP Reducer	Ea	11	\$	\$
07020.21	20 In. x 12 In. DIP Reducer	Ea	1	\$	\$
07020.30	16 In. x 14 In. DIP Reducer	Ea	1	\$	\$
07030.06	8 In. x 8 In. x 8 In. DIP Tee	Ea	7	\$	\$
07030.17	16 In. x 16 In. x 8 In. DIP Tee	Ea	1	\$	\$
07030.27	20 In. x 20 In. x 6 In. DIP Tee	Ea	2	\$	\$
07030.28	20 In. x 20 In. x 8 In. DIP Tee	Ea	7	\$	\$
07030.33	20 In. x 20 In. x 20 In. DIP Tee	Ea	1	\$	\$
07050.71	DS_Gate Valve In Box, 6 In.	Ea	2	\$	\$

07050.72	DS_Gate Valve In Box, 8 In.	Ea	2	\$	_____	\$	_____
07060.72	DS_Gate Valve In Well, 8 In.	Ea	7	\$	_____	\$	_____
07060.77	DS_Gate Valve In Well, 20 In.	Ea	4	\$	_____	\$	_____
07080.00	Excavate & Backfill for Water Service Tap and Lead	Ft	450	\$	_____	\$	_____
07090.00	Water Structure Cover	Ea	1	\$	_____	\$	_____
07100.00	Fire Hydrant Assembly, Complete	Ea	10	\$	_____	\$	_____
07102.00	Fire Hydrant Assembly, Rem	Ea	7	\$	_____	\$	_____
07110.01	Sacrificial Anode, 17-pound	Ea	7	\$	_____	\$	_____
07110.02	Sacrificial Anode, 34-pound	Ea	4	\$	_____	\$	_____
07120.00	Gate Box, Adjust	Ea	1	\$	_____	\$	_____
07130.01	Temporary Water Main Line Stop, 8 In. or less	Ea	1	\$	_____	\$	_____
07130.03	Temporary Water Main Line Stop, 12 In.	Ea	1	\$	_____	\$	_____
07130.04	Temporary Water Main Line Stop, 16 In.	Ea	3	\$	_____	\$	_____
07130.06	Temporary Water Main Line Stop, 20 In.	Ea	2	\$	_____	\$	_____
07131.00	Temporary Water Main Line Stop, Additional Rental Day	Ea	1	\$	_____	\$	_____
07141.70	DS_Water Main Pipe, Abandon, Modified (Huronview Blvd)	LS	1	\$	_____	\$	_____
07141.70	DS_Water Main Pipe, Abandon, Modified (Orkney Dr/Culver Rd/Fountain St)	LS	1	\$	_____	\$	_____
07160.01	Gate Valve in Box, 4 In. Dia., Abandon	Ea	1	\$	_____	\$	_____
07160.02	Gate Valve In Box, 6 In. Dia., Abandon	Ea	4	\$	_____	\$	_____
07160.02	Gate Valve In Box, 8 In. Dia., Abandon	Ea	1	\$	_____	\$	_____
07160.06	Gate Valve in Box, 16 In. Dia., Abandon	Ea	1	\$	_____	\$	_____
07170.02	Gate Valve in Well, 6 In. Dia., Abandon	Ea	1	\$	_____	\$	_____
07180.03	Gate Valve in Well, 8 In. Dia., Abandon	Ea	1	\$	_____	\$	_____
07180.06	Gate Valve in Well, 16 In. Dia., Abandon	Ea	4	\$	_____	\$	_____
07190.02	Gate Valve in Well, 6 In. Dia., Rem	Ea	1	\$	_____	\$	_____
<b>08000.00</b>	<b>Streets, Driveways, &amp; Sidewalks</b>						
08000.00	Subbase, CIP	Cyd	85	\$	_____	\$	_____
<b>08010.00</b>	<b>Aggregate Base Course, 21AA, CIP</b>	<b>Cyd</b>	<b>50</b>	<b>\$</b>	<b>_____</b>	<b>\$</b>	<b>_____</b>
08010.02	Aggregate Base, 6 In., 21AA, CIP	Syd	150	\$	_____	\$	_____
08010.03	Aggregate Base, 8 In., 21AA, CIP	Syd	3,050	\$	_____	\$	_____
08020.01	Aggregate Surface Course, 8 In., 23A, CIP	Syd	20	\$	_____	\$	_____
08060.00	Hand Patching	Ton	45	\$	_____	\$	_____
08070.15	HMA, 4EML	Ton	1,000	\$	_____	\$	_____
08070.19	HMA, 5EML	Ton	1,000	\$	_____	\$	_____
08070.23	HMA, 4E3	Ton	43	\$	_____	\$	_____
08070.24	HMA, 5E3	Ton	17	\$	_____	\$	_____
08080.03	Conc Pavt, Non-Reinf, 8 In.	Syd	32	\$	_____	\$	_____
08100.03	Conc Pavt With Integral Curb, Non-Reinf, 8 In.	Syd	74	\$	_____	\$	_____
08110.00	Conc, Curb or Curb & Gutter, All Types	Ft	1,450	\$	_____	\$	_____
08120.03	Conc, Driveway Opening, Type M, High Early	Ft	540	\$	_____	\$	_____
08130.01	Conc, Sidewalk, 4 In.	Sft	25	\$	_____	\$	_____
08132.01	Conc, Sidewalk, Drive Approach, or Ramp, 6 In., High Early	Sft	945	\$	_____	\$	_____
08132.02	Conc, Sidewalk, Drive Approach, or Ramp, 8 In., High Early	Sft	305	\$	_____	\$	_____
08140.00	Brick Pavers, Sidewalk, Rem and Reinstall	Sft	20	\$	_____	\$	_____
08210.01	Pavt Mrkg, Sprayable Thermopl, 4 In., White	Ft	450	\$	_____	\$	_____

10000.00 Landscaping						
10051.00	Underground Sprinkling System, Restore	Dir	4,000	\$	1.00	\$ 4,000.00
10060.00	Turf Restoration	Syd	4,000	\$		
Boardwalk Culvert						
01000.00 General						
01004.71	DS_Railroad Protection, Ann Arbor Railroad	Dir	25,000	\$	1.00	\$ 25,000.00
01020.00	Erosion Control, Check Dam	Ft	50	\$		
01021.00	Erosion Control, Inlet Protection, Fabric Drop	Ea	1	\$		
01023.00	Erosion Control, Mud Mat	Syd	154	\$		
01040.00	Minor Traffic Control, Max. \$2,500.00	LS	1	\$		
01030.71	DS_Site and Tree Protection Fence	Ft	250	\$		
03000.00 Earthwork						
03000.71	DS_Machine Grading, Special	Sta	4.15	\$		
05000.00 Sewer and Manhole Rehab						
05090.00	Reconstruction Flow Channel	Ea	1	\$		
06000.00 Storm and Drainage						
06120.71	DS_Storm Sewer Pipe, 54 In. Dia., Rem	Ft	40	\$		
06120.17	Storm Sewer Pipe, 90 In. Dia., Rem	Ft	45	\$		
06001.16	90 In., CL IV RCP Storm Sewer, SD-TD-1	Ft	37	\$		
06020.00	Pipe Undercut & Backfill, Storm	Cyd	15	\$		
06041.00	Riprap, Plain	Syd	576	\$		
06050.71	DS_Storm Manhole, 90 In. Dia., Precast Tee, CI IV RCP	Ea	1	\$		
06140.00	Storm Sewer Structure, Rem	Ea	1	\$		
08000.00 Streets, Driveways, & Sidewalks						
08020.01	Aggregate Surface Course, 8 In., 23A, CIP	Syd	154	\$		
08020.71	DS_Temporary Access Drive	Syd	195	\$		
08050.00	Geotextile Separator Fabric	Syd	576	\$		
10000.00 Landscaping						
10060.01	Turf Restoration_Boardwalk	Syd	650	\$		
10091.00	Mulch Blanket, High Velocity	Syd	400	\$		
<b>TOTAL BID AMOUNT</b>				\$		

CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**STORM PRECAST TEE**

SDA:DAD

1 of 2

02/21/24

**Description**

This work consists of constructing a precast concrete manhole tee in accordance with Articles 4, 10 and 12 of the City of Ann Arbor (CAA) 2024 Public Services Standard Specifications, as shown on the plans, as directed by the Engineer, and as specified herein.

**Materials**

Furnish materials in accordance with Article 4 subsections II.A and II.B of the CAA 2024 Public Services Standard Specifications, and MDOT Standard Plan R-3-B.

Provide Class IV reinforced concrete precast manhole tee in accordance with Article 4 subsection II.A of the CAA 2024 Public Services Standard Specifications. Provide pipe backfill in accordance with Article 10 subsections II.H and II.I of the CAA 2024 Standard Specifications.

Furnish J.R. Hoe (TrashRacks.com) mild steel galvanized round top-mount grate product no. LDR-48 or approved equal. At least 14 calendar days prior to installation, submit shop drawings of the proposed grate for review and approval.

Furnish precast concrete adjusting rings, brick, block and mortar Type R-2.

**Construction**

Construct precast concrete manhole tee in accordance with Article 10 section II and Article 12 of the CAA 2024 Public Services Standard Specifications, MDOT Standard Plan R-3-B, CAA Standard Detail SD-TD-1 (UTILITY TRENCH – TYPE 1), as shown on the plans, as described below, and as directed by the Engineer.

Furnish working drawings for precast concrete manhole tee in accordance with subsection 104.02 of the MDOT Standard Specifications for Construction.

Furnish and install drainage structure covers and frames in accordance with the manufacturer's guidelines.

Furnish and adjust to finish elevation the proposed drainage structure cover as shown on the plans.

Immediately remove any debris that falls into the precast tee due to the Contractor operations.



CITY OF ANN ARBOR  
DETAILED SPECIFICATION  
FOR  
**STORM PRECAST TEE**

SDA:DAD

2 of 2

02/21/24

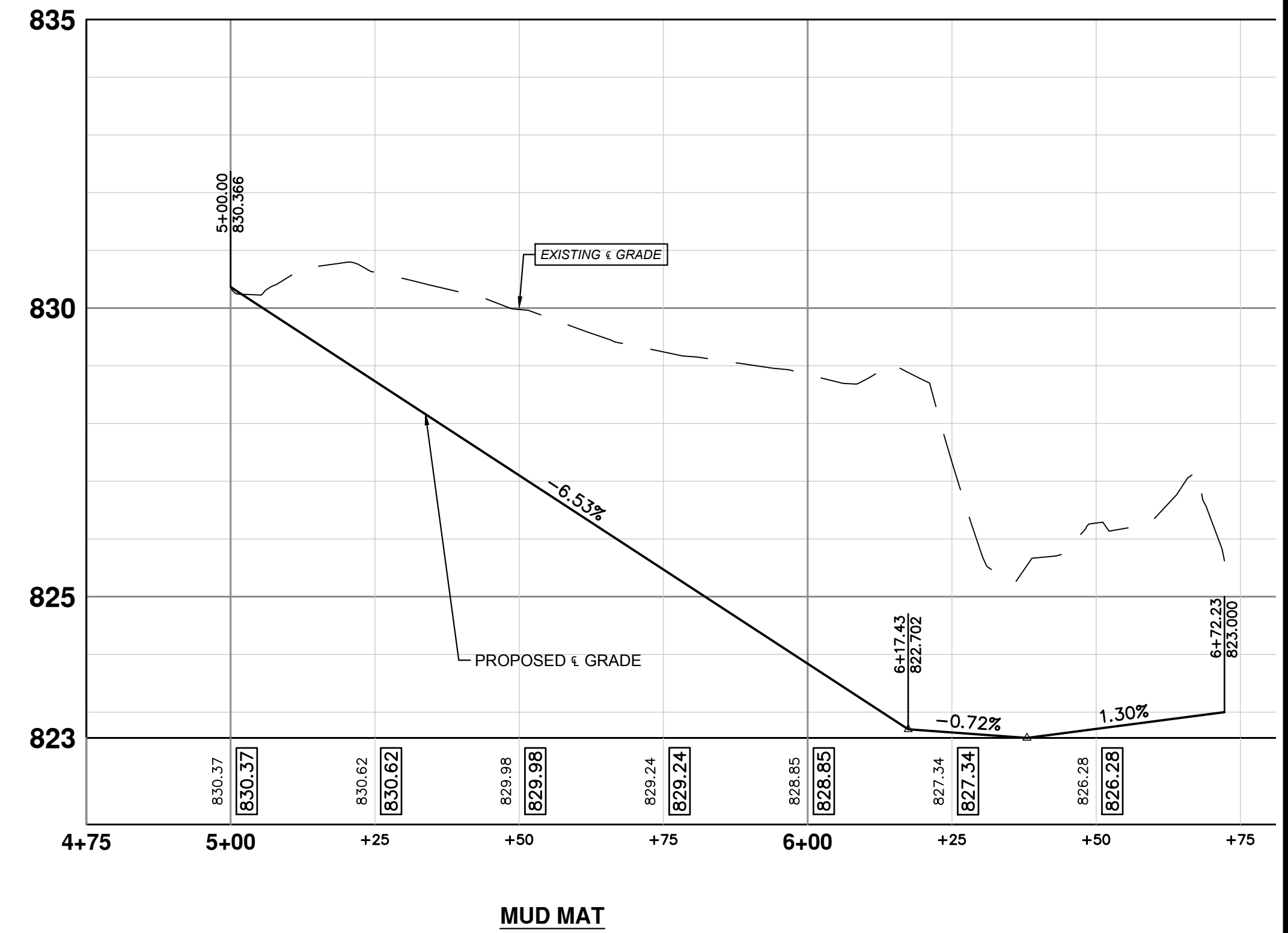
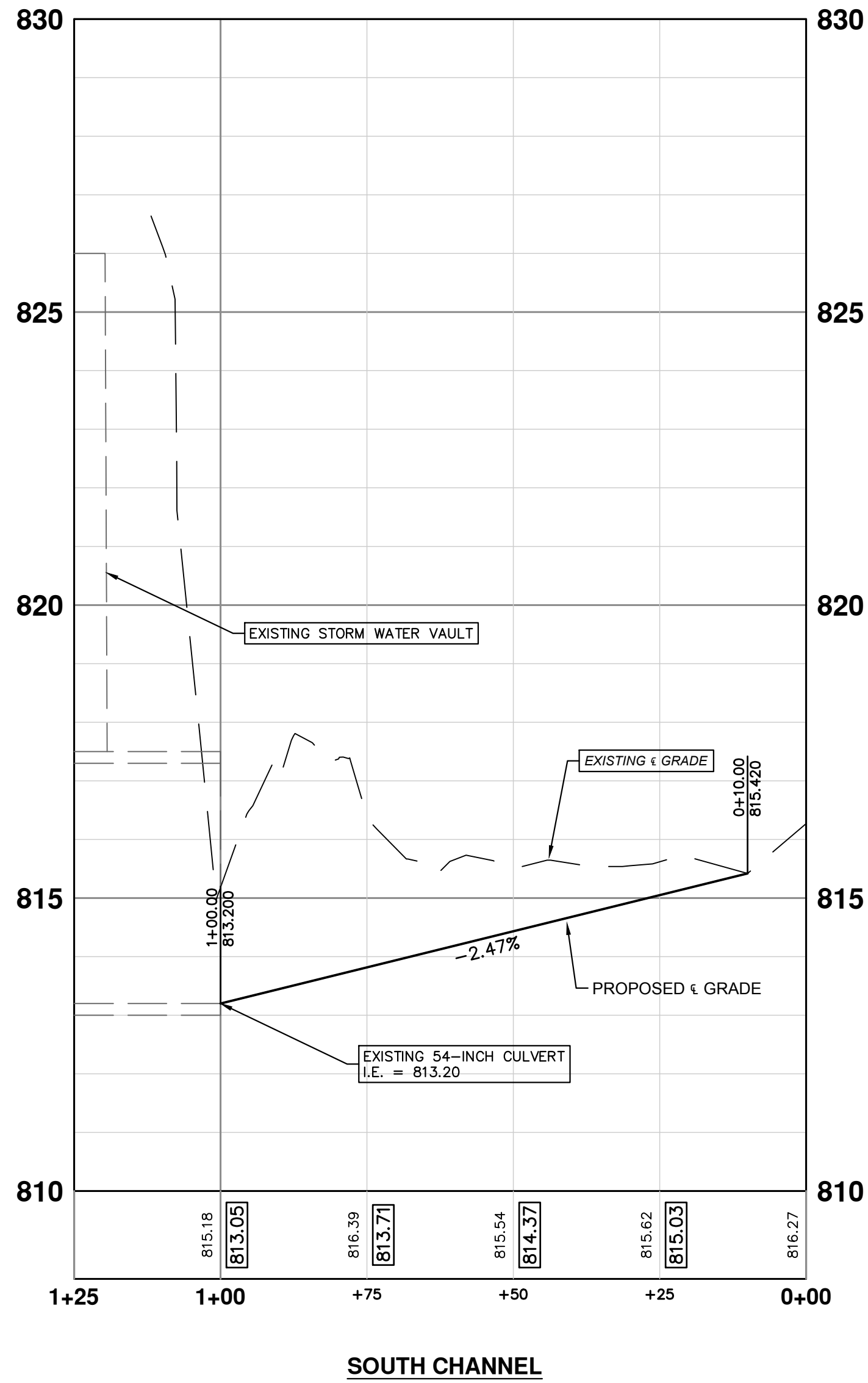
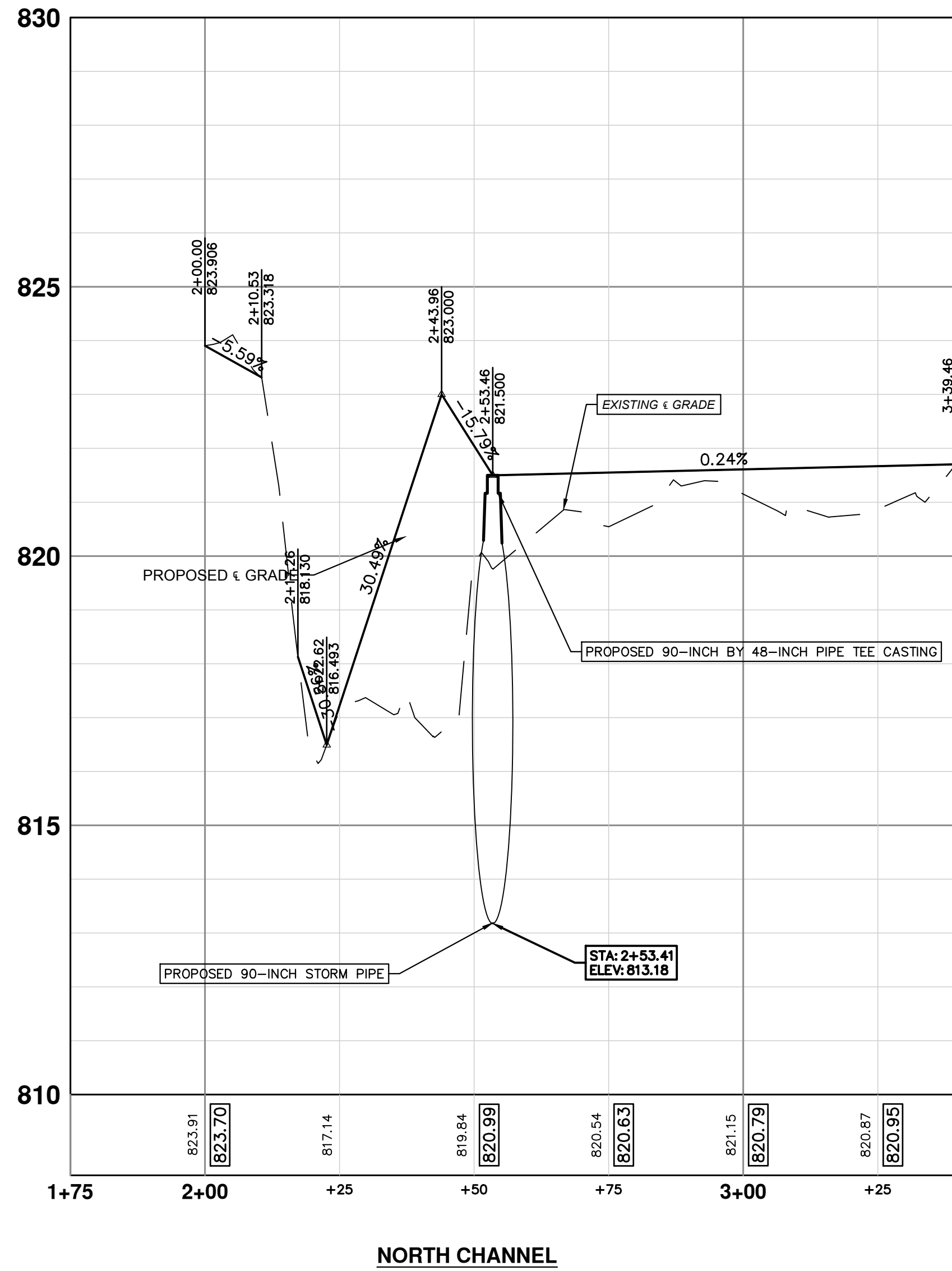
**Measurement and Payment**

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

<b>Pay Item</b>	<b>Pay Unit</b>
DS_Storm Manhole, 90 In. Dia., Precast Tee, CI IV RCP .....	Each

Measure **DS\_Storm Manhole, 90 In. Dia., Precast Tee, CI IV RCP** in place by the unit each and pay for it at the contract unit price, which price includes all cost for labor, equipment, and materials necessary to complete the work. This item of work also includes furnishing and installing the new drainage structure frame and cover, and adjustment of the structure cover to the finish elevation regardless of the vertical change in height.

J:\AA\Design\AA22004 - Ann Arbor Boardwalk Culvert\AA22004\_Sirm1.dwg Dwg Created: 22-Feb-24 - \_s02 standard bw.stb - Plot Date: 23-Feb-24



NOTE: MUD MAT IS A PROPOSED ACCESS PATHWAY TO THE 90-INCH STORM SEWER REMOVAL AND REPLACEMENT. REMOVAL OF THE EARTH ASSOCIATED WITH THE PIPE REMOVAL WILL BE INCLUDED IN THAT REMOVAL PAY ITEM WHILE REMOVAL OF EARTH FOR THE MUD MAT INSTALLATION WILL UTILIZE MACHINE GRADING, MODIFIED

**CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING**

**ANN ARBOR RAILROAD / BOARDWALK CULVERT IMPROVEMENTS PROJECT**

CHANNEL PROFILES

SCALE PLAN: 1" = 20'  
 PROFILE: 1" = 2'Y

DRAWING No. 2022037

SHEET No. 8 OF 9

**CITY OF ANN ARBOR**  
 PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48106-6647  
 www.a3gov.org

ANN ARBOR MICHIGAN

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
1	60% PLAN REVIEW	09/13/2023	AJC	JS
2	BID SET	02/09/2024	RD	JS
3	ADDENDUM	02/23/2024	RD	JS

Know what's below.  
Call Before you dig.