

ADDENDUM No. 2

RFP No. 24-23

Barton/Bandemer Park Pedestrian Tunnel Project

Due: May 15, 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 four (4) pages in addition to prints of the replacement plan sheets (14 pages) and RFP document (6 pages).**

The Proposer is to acknowledge receipt of this Addendum No. 2 by signing and submitting Attachment B, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

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

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

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

I. CORRECTIONS/ADDITIONS/DELETIONS

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

Section/Page(s)

Change

Section III As provided in RFP No. 24-23 Document:
Form, Section 1 – Schedule of Prices as Pages 18 and 19.

Comment: Pay item quantities were changed for the following pay items:

Hh, Square

Limestone Sign, “2024” was changed to Limestone Sign, “2025”

Cable, Grounding Wire, 1/C#12

Cable, 600V, 1, 2/C#12

Conduit, Schedule 40, 1 inch was removed

Cable, Equipment Grounding Wire, 1/C#8

Cable, 600V, 1, 3/C#2

Added a new pay item for Conduit, DB, 1, 1 inch.

As updated herein:
Form, Section I – Page 5.

Comment: Clarified requirement to provide 2 additional proposal copies.

As updated herein:
Form, Section IV – Detailed Specifications as noted below.

Comment: Changes to detailed specifications ad noted below:

Progress Clause: Updated dates for construction.

Stone Masonry Façade: Updated pay item to reflect 2025 year on signage.

Section IV Detailed Specs	Updated Progress Clause to include approval by Amtrak for outage start and stop times. Updated Culvert, Precast Concrete Box, Modified definition of pay limits. Added requirement for a mock-up of the stone work in the Stone Masonry Façade specification and noted this mock up is not paid for separately.
Plans Page 14 of 80	Replace plan sheet. Updated profile.
Plans Page 16 of 80	Replace plan sheet. Updated profile near the timber bridge.
Plans Page 18 of 80	Replace plan sheet. Updated profile.
Plans Page 31 of 80	Replace plan sheet. Added waler and tie rod details.
Plans Page 34 of 80	Replace plan sheet. Added waler and tie rod details.
Plans Page 45 of 80	Replace plan sheet. Updated profile near the timber bridge.
Plans Page 47 of 80	Replace plan sheet. Added call outs for a sleeve to be placed in the headwall for the electrical conduit to go through to the exterior fixtures. Removed ** designation from the PVC Liner call out to clarify it is paid for separately and not included in the box culvert pay item.
Plans Page 49 of 80	Replace plan sheet. Added call outs for a sleeve to be placed in the headwall for the electrical conduit to go through to the exterior fixtures. Showed conceptually the conduit running to the exterior fixtures. Changed the signage to be 2025 instead of 2024.
Plans Page 50 of 80	Replace plan sheet. Added call outs for a sleeve to be placed in the headwall for the electrical conduit to go through to the exterior fixtures. Showed conceptually the conduit running to the exterior fixtures. Changed the signage to be 2025 instead of 2024.
Plans Page 53 of 80	Replace plan sheet. Updated timber ped bridge details.
Plans Page 54 of 80	Replace plan sheet. Updated timber ped bridge details.
Plans Page 55 of 80	Replace plan sheet. Updated plan quantities. Updated plan view to indicate wiring and conduit in and around the culvert as well as two additional handholes.

Plans Page 56 of 80

Replace plan sheet. Added note to right column of bottom table for Type A fixture.

Plans Page 59 of 80

Replace plan sheet. Clarified conduit type in plan view to the control panel. Referred details to sheet 55 for conduit and wiring required from the control panel to the fixtures. Clarified there is no work to the existing park bridge except to attached conduit to it (added note below title of detail).

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:

Is the Conduit, Sch 40 1" for the tunnel lighting?

Answer 1:

Pay items were updated to clarify conduit on the project. We also included call outs on the electrical sheets to clarify.

Question 2:

Was the lighting conduit that was listed as Conduit, Sch 80, 1 1/4" inadvertently deleted? The cable quantities don't line up with the conduit pay items.

Answer 2:

Pay items were updated, however, please note that the project will install conduit from the DTE pole (power source) to the Control Panel. DTE will then pull wire themselves for that stretch. The conduit from the Control Panel to the fixtures would have wire run through it as part of this project by the Contractor.

Question 3:

Can you clarify what the 2,500' of 3/C#2 is for? That quantity increased from 600'.

Answer 3:

Plans and quantities were revised to reflect that the power source to the Control Panel will only have conduit by the Contractor. DTE will pull wire so this item was deleted.

Question 4:

Can you please clarify how many hard copy proposal you require?

Answer 4:

This addendum has clarified that we require 1 original hard copy, 2 additional hard copies, plus the digital version.

Question 5:

There is a bid item for Liner, PVC, 30mil. The plans and specifications mention that the liner is incidental to the box culvert. How would you like this item priced?

Answer 5:

The Liner, PVC, 30 mil item should be bid and will be paid for separately. The box details have not removed the ** designation from this item which should clarify this now.

Question 6:

The SP for dewatering mentions artesian conditions and not to install wells below 760.00. Is there any concern with the sheeting depths that are below 760?

Answer 6:

The temporary steel sheet piling specification also indicates the artesian condition and to not install sheeting deeper than elevation 760.00. Please note, that the permanent sheeting used

further north along the pathway does not carry this restriction as the soil boring in that area did not contain data supporting artesian conditions exist there.

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

Each respondent should submit in a sealed envelope

- **one (1) original proposal**
- **Two (2) additional proposal copies**
- **one (1) digital copy of the proposal preferably on a USB/flash drive as one file in PDF format**

Proposals submitted should be clearly marked: “**RFP No. 24-23 – Barton/Bandemer Park Pedestrian Tunnel Project**” and list the bidder’s name and address.

Proposals must be addressed and delivered to:

City of Ann Arbor
c/o Customer Service
301 East Huron Street
Ann Arbor, MI 48107

All proposals received on or before the due date will be publicly opened and recorded on the due date. No immediate decisions will be rendered.

Hand delivered proposals may be dropped off in the Purchasing drop box located in the Ann Street (north) vestibule/entrance of City Hall which is open to the public Monday through Friday from 8am to 5pm (except holidays). The City will not be liable to any prospective bidder for any unforeseen circumstances, delivery, or postal delays. Postmarking on the due date will not substitute for receipt of the proposal.

Bidders are responsible for submission of their proposal. Additional time will not be granted to a single prospective bidder. However, additional time may be granted to all prospective bidders at the discretion of the City.

A proposal may be disqualified if the following required forms are not included with the 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 forms listed above upon proposal opening may be deemed non-responsive and may not be considered for award.

H. DISCLOSURES

Under the Freedom of Information Act (Public Act 442), the City is obligated to permit review of its files, if requested by others. All information in a proposal is subject to

Riprap, Cobblestone	21	Syd	_____	_____
Site Preparation, Max	1	LSUM	_____	_____
Watering and Cultivating, First Season, Min	1	LSUM	_____	_____
Watering and Cultivating, 2nd Season, Min	1	LSUM	_____	_____
Aronia melanocarpa, #5 cont.	10	Ea	_____	_____
Hamamelis virginiana, #5 cont.	10	Ea	_____	_____
Viburnum acerifolium, #5 cont.	5	Ea	_____	_____
Viburnum lentago, #5 cont.	10	Ea	_____	_____
Platanus occidentalis, 3 inch	5	Ea	_____	_____
Tilia americana, 3 inch	5	Ea	_____	_____
Acer saccharum 'Bailsta' FALL FIESTA, 3 inch	5	Ea	_____	_____
Nyssa sylvatica, 3 inch	3	Ea	_____	_____
Quercus bicolor, 3 inch	3	Ea	_____	_____
Cercis canadensis, 2 1/2 inch, multi-stem	8	Ea	_____	_____
Cornus florida, 2 1/2 inch	8	Ea	_____	_____
Amelanchier x grandiflora 'Autumn Brilliance', 8 foot	6	Ea	_____	_____
Cephalanthus occidentalis, #5 cont.	5	Ea	_____	_____
Cornus stolonifera 'Farrow', #5 cont.	30	Ea	_____	_____
Lindera benzoin, #5 cont.	10	Ea	_____	_____
Calamagrostis x acutiflora 'Karl Foerster', #3 cont.	15	Ea	_____	_____
Panicum virgatum 'Shenandoah', #3 cont.	15	Ea	_____	_____
Schizachyrium scoparium, #3 cont.	15	Ea	_____	_____
Live Staking	250	Syd	_____	_____
Turf Establishment, Turf Grass, Performance	734	Syd	_____	_____
Turf Establishment, Native Seed Mix, Mesic Woodland Mix, Performance	6404	Syd	_____	_____
Conduit, PVC Schedule 80, 2 inch, Structure	150	Ft	_____	_____
Hh, Square	4	Ea	_____	_____
Conduit, DB, 1, 2 inch	550	Ft	_____	_____
Conduit, DB, 1, 1 inch	750	Ft	_____	_____
Cable, 600V, 1, 2/C#12	1525	Ft	_____	_____

Cable, Grounding Wire, 1/C#12	770	Ft	_____	_____
13"x24" Pull Box	2	Ea	_____	_____
Lighting Control Panel	1	Ea	_____	_____
Luminaire, Wall Mount, Type A	2	Ea	_____	_____
Luminaire, Linear, Type B	28	Ea	_____	_____
Luminaire, Linear, Type C	28	Ea	_____	_____
Luminaire, Pole Mount, Type D	13	Ea	_____	_____
Light Pole Foundation	13	Ea	_____	_____
Light Pole, Type D Pole	13	Ea	_____	_____
Electrical Utility Service	20000	Dir	_____	_____
Gate Valve and Box, 6 inch	1	Ea	_____	_____
Contractor Staking	1	LSUM	_____	_____
Railroad Track Monitoring	1	LSUM	_____	_____
Utility Work, Amtrak	1	LSUM	_____	_____
Utility Work, Lumen	1	LSUM	_____	_____
Limestone Cap	117	Ft	_____	_____
Limestone Block	132	Sft	_____	_____
Split Field Stone	637	Sft	_____	_____
Limestone Sign, "Bandemer"	1	Ea	_____	_____
Limestone Sign, "Barton"	1	Ea	_____	_____
Limestone Sign, "2025"	2	Ea	_____	_____
Decorative Panel, Install	1	LSUM	_____	_____
Dewatering System for Contaminated Groundwater, Site	100000	Dir	_____	_____
Decorative Panel, Furn	100000	Dir	_____	_____
Dr Structure, Tap, 6 inch	2	Ea	_____	_____
Sign, Type III, Rem	1	Ea	_____	_____
Ground Mtd Sign Support, Rem	1	Ea	_____	_____
Sign, Type IIIA	4	Sft	_____	_____
Corrugated Steel Pipe, Galv, 6 inch	48	Ft	_____	_____

ESTIMATED TOTAL

\$ _____

CITY OF ANN ARBOR
SPECIAL PROVISION
FOR
PROGRESS CLAUSE

BBT:CED

1 of 2

3/12/24

Construction can begin no earlier than **March 17, 2025** unless otherwise approved by the Engineer. In no case can any work be commenced prior to receipt of formal notice of award by the Department.

Prepare and submit a complete, detailed, signed Progress Schedule to the Engineer.

The Progress Schedule shall include, at minimum, the controlling work items for the completion of the project, as well as the planned dates or work days that these work items will be controlling operations. All contract dates including open to traffic, project completion, interim completion and any other controlling dates in the Contract, must be included in the Progress Schedule. If the bidding Proposal specifies other controlling dates, these shall also be included in the Progress Schedule.

The project shall be substantially completed and open to traffic on or before **August 22nd, 2025** excluding the acceptance of slope restoration, tree plantings, and watering & cultivating. Complete final site restoration on or before **October 15, 2025**. Slope restoration and watering & cultivating requirements must be met prior to final acceptance of the project. A 36-hour track outage will be scheduled on, or about, **June 4th, 2025** for the purposes of constructing the project under the railroad tracks. If inclement weather occurs during the original track outage date, a back-up track outage date scheduled approximately 2 weeks after the originally scheduled outage must be coordinated with the Engineer. All work required for preparation for this outage must be done prior to **June 4th, 2025**. The actual outage start and stop times will be provided by the Engineer and approved by Amtrak. The Contractor will be given a 30-hour uninterrupted time for which to construct the work required during the track outage.

The Contractor shall include an hour-by-hour schedule for the work planned during the track outage to be approved by the Engineer. The hour-by-hour schedule shall include the Contractor coordinating with Amtrak to show durations for the work tasks Amtrak will be responsible for during the track outage. The hour-by-hour schedule shall indicate an emergency stop work plan indicating the point at which the Contractor will no longer be able to stop and return the site to a condition ready for Amtrak to perform their work in reopening to rail traffic within the planned outage timeframe.

Unless specific pay items are provided in the contract, any extra costs incurred by the Contractor due to cold-weather protection and winter grading will not be paid for separately, but will be included in the payment of other pay items in the contract.

After award and prior to start of work, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the date, time, and place for the preconstruction meeting. The meeting will be conducted after project award and may be rescheduled if there are delays in the award of the project.

The named subcontractor(s) for Designated and/or Specialty Items, as shown in the Proposal, should attend the preconstruction meeting if such items materially affect the work schedule.

For compliance with threatened and endangered bats, tree clearing must be completed between October 1 and March 31.

Failure by the Contractor to meet interim completion, open to traffic, and/or final completion dates will result in the assessment of liquidated damages in accordance with subsections 108.10.C.1 and 108.10.C.2 of the Standard Specifications for Construction.

Failure by the Contractor to reopen the rail line to rail traffic within the track outage timeframe defined above will result in the assessment of liquidated damages in accordance with the Special Provision for Liquidated Damages for Other Department Costs.

flashing and remain watertight.

Use adhesives, primers, and seam tape for flashings as recommended by the manufacturer of the flashing for bonding flashing sheets to each other and to substrates.

e. 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
Split Field Stone	Square Foot
Limestone Block.....	Square Foot
Limestone Cap.....	Foot
Limestone Sign, "BANDEMÉR".....	Each
Limestone Sign, "BARTON".....	Each
Limestone Sign, "2025".....	Each

Split Field Stone, includes furnishing all labor, materials and equipment as specified herein and/or as shown on the plans to install the façade and includes CMU's to support it, mortar, properly coated lintel supports, and protection of materials regardless of weather conditions. The quantity will be measured based on the exposed stone surface area. The area of the CMU's below grade is not included in the measurement but is included in the cost of this item.

Limestone Block includes furnishing all labor, materials and equipment as specified herein and/or as shown on the plans to install the façade and includes CMU's to support it, mortar, properly coated lintel supports, and protection of materials regardless of weather conditions. The quantity will be measured based on the exposed stone surface area. The area of the CMU's below grade is not included in the measurement but is included in the cost of this item.

Limestone Cap includes furnishing all labor, materials and equipment as specified herein and/or as shown on the plans to install the cap and includes mortar and protection of materials regardless of weather conditions. The quantity will be measured based the linear foot installed along the top of the culvert headwall and wingwalls.

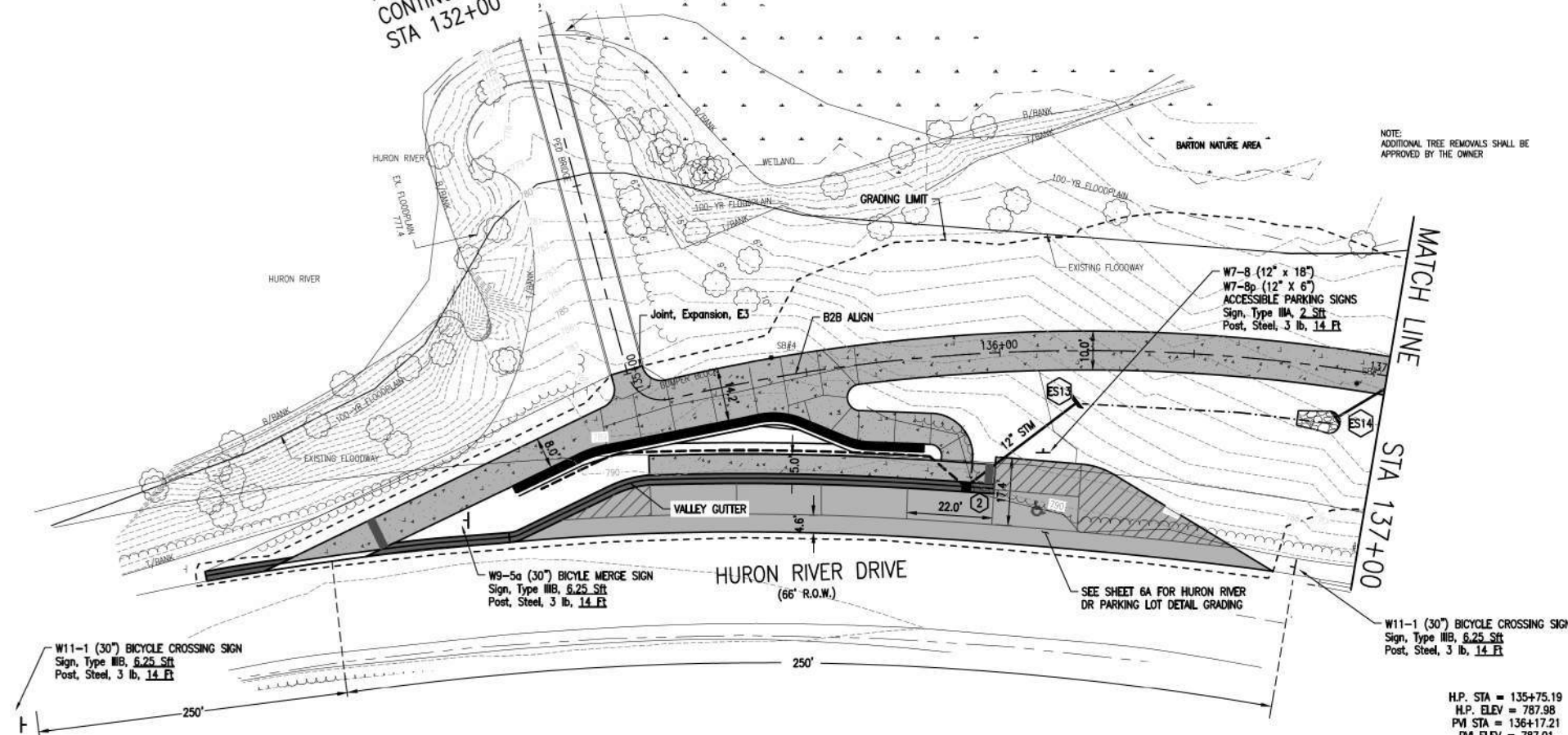
Limestone Sign, ___ includes furnishing all labor, materials and equipment as specified herein and/or as shown on the plans to install the sign and includes CMU's to support it, mortar, properly coated lintel supports, and protection of materials regardless of weather conditions. The quantity will be measured for each sign installed of the specified type.

Cost of mock-up is not paid for separately and is considered included in other items of work.

SOL BORING #4
 N 293018.00
 E 13290528.00 ELEV 787.86

PEDESTRIAN BRIDGE
 CONTINUES TO MATCHLINE
 STA 132+00

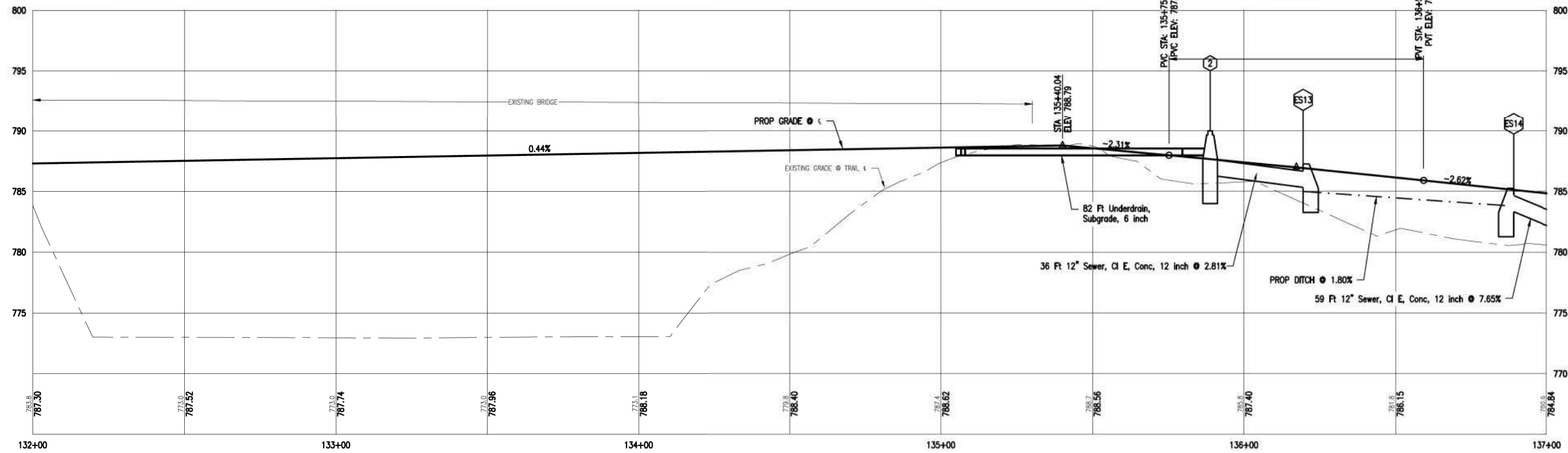
CONSTRUCTION PLAN



NOTE:
 ADDITIONAL TREE REMOVALS SHALL BE
 APPROVED BY THE OWNER

TOTAL	UNIT	DESCRIPTION
365	Syd	Aggregate Base, 8 inch, Modified
3	Ea	Culv End Sect, Conc, 12 inch
95	Ft	Sewer, CI E, 12 inch, Tr Det B
1	Ea	Dr Structure Cover, Type C
1	Ea	Dr Structure, 24 inch dia
114	Ft	Underdrain, Fdn, 6 inch
33	Ton	HMA, 4EML
33	Ton	HMA, 5EML
9	Ft	Joint, Expansion, E3
207	Ft	Curb and Gutter, Conc, Det D2
13	Ft	Detectable Warning Surface
345	Ft	Shared use Path, Grading, Modified
426	Syd	Shared use Path, Aggregate, 8 inch, Modified
411	Syd	Shared Use Path, Concrete, 6 inch
113	Ft	Fence, Rustic Split Rail
71	Ft	Post, Steel, 3 lb
4	Sft	Sign, Type IIIA
19	Sft	Sign, Type IIIB
278	Ft	Post Mrgk, Polyurea, 4 inch, Yellow
270	Ft	Post Mrgk, Polyurea, 12 inch, Cross Hatching, Yellow
1	Ea	Post Mrgk, Preformed Thermopl, Accessible Sym
75	Ft	Post Mrgk, Waterborne, for Rest Areas, Parks, and Lots, 4 inch, Blue
17	Syd	Riprap, Cobblestone

H.P. STA = 135+75.19
 H.P. ELEV = 787.98
 PVI STA = 136+17.21
 PVI ELEV = 787.01
 K = 268.20
 84.04' VC
 A.D. = 0.31%



- 2 STA 135+88.77, 34.0' R
 Dr Structure, 48 inch dia
 6" INV NW 788.00
 12" INV NE 786.50
- ES13 STA 136+19.47, 13.6' R
 Culv End Section, Conc, 12 inch
 12" INV SW 785.50
- ES14 STA 136+88.95, 12.4' R
 Culv End Section, Conc, 12 inch
 12" INV NE 783.50



Know what's below.
 Call before you dig.

DRAWING PATH: P:\1000_1999\102218010_Bandemer-Barton_TrailDrawings\CivilPlans_Const\18010CON3.dwg May 07, 2024 - 8:46am

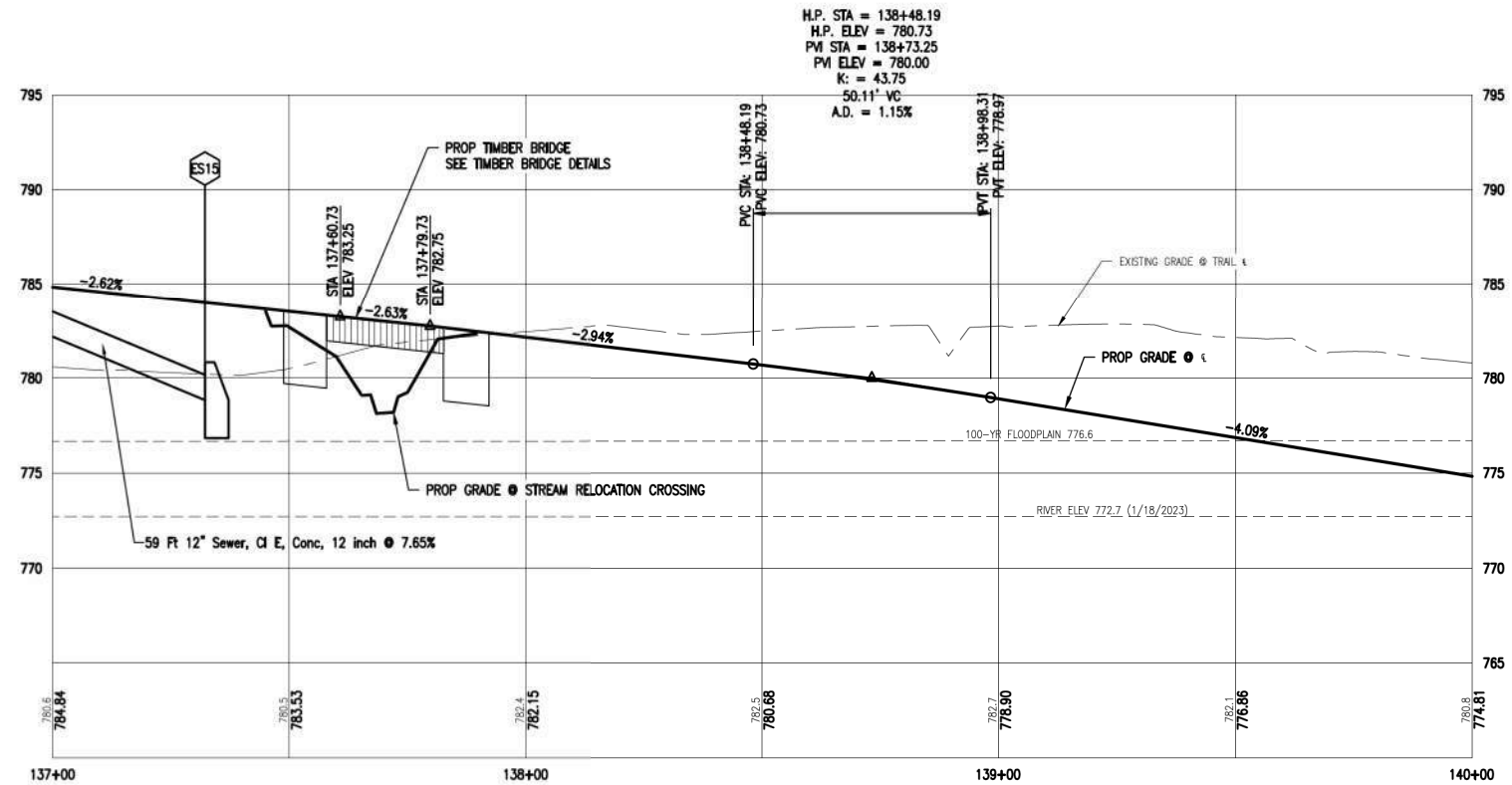
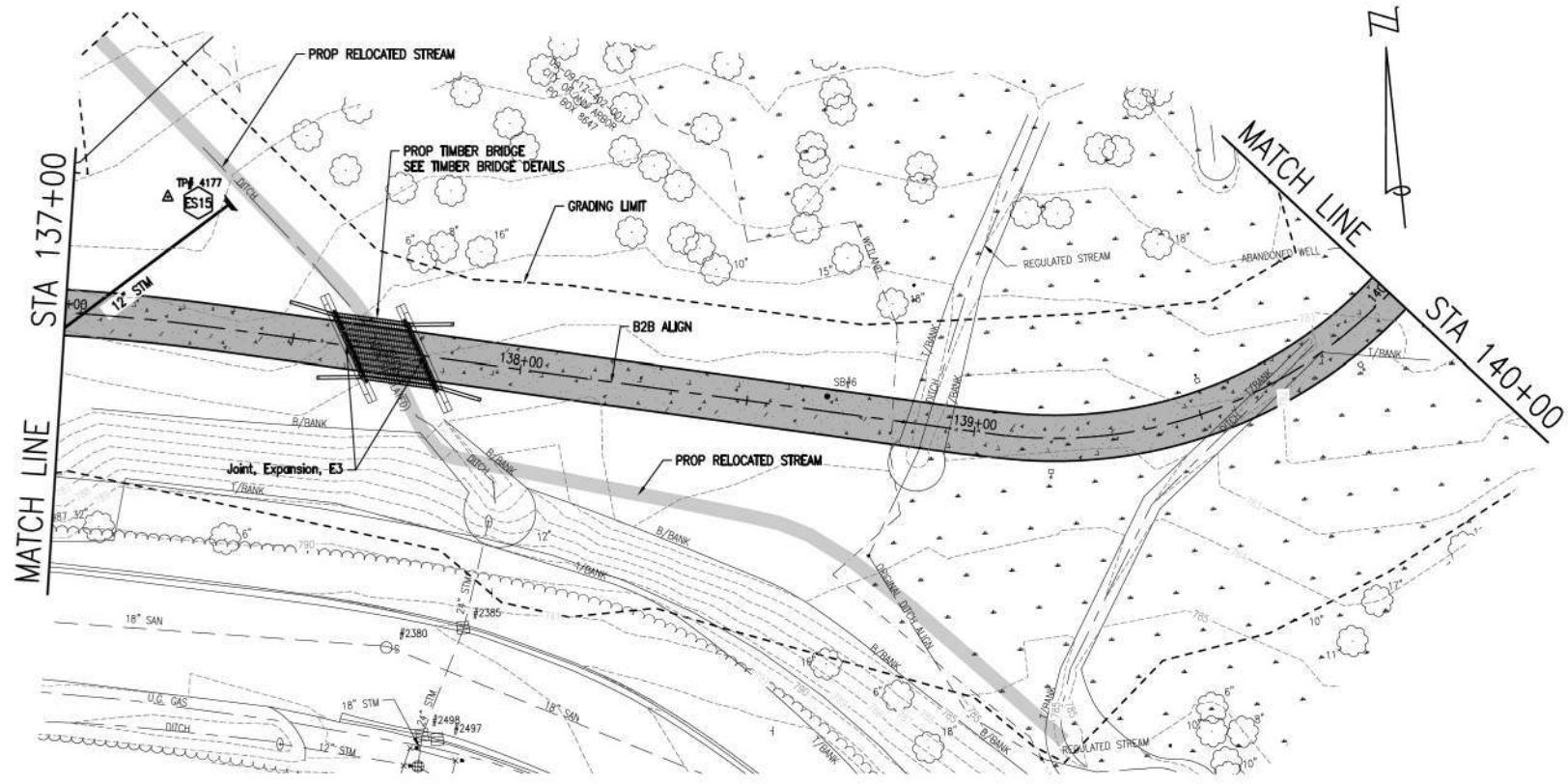
OHM
 ARCHITECTS ENGINEERS PLANNERS
 34000 Plymouth Road
 Livonia, MI 48150
 P (734) 522-6711 | F (734) 522-6427
 OHM-ADVISORS.COM

REVISIONS

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
 BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
 CONSTRUCTION PLAN
 STA ##### TO STA 136+00

SOL BORING #5
 N 293009.00
 E 13290678.00 ELEV 781.05

SOL BORING #6
 N 292975.00
 E 13290849.00 ELEV 782.53



MISCELLANEOUS QUANTITIES		
30	Ft	Joint, Expansion, E3
430	Ft	Curb, Conc, Det E1
300	Ft	Shared use Path, Grading, Modified
467	Syd	Shared use Path, Aggregate, 8 inch, Modified
400	Syd	Shared use Path, Concrete, 6 inch

ES15 STA 137+32.16, -26.8' L
 Cully End Section, Conc, 12 inch
 12" INV SW 779.00

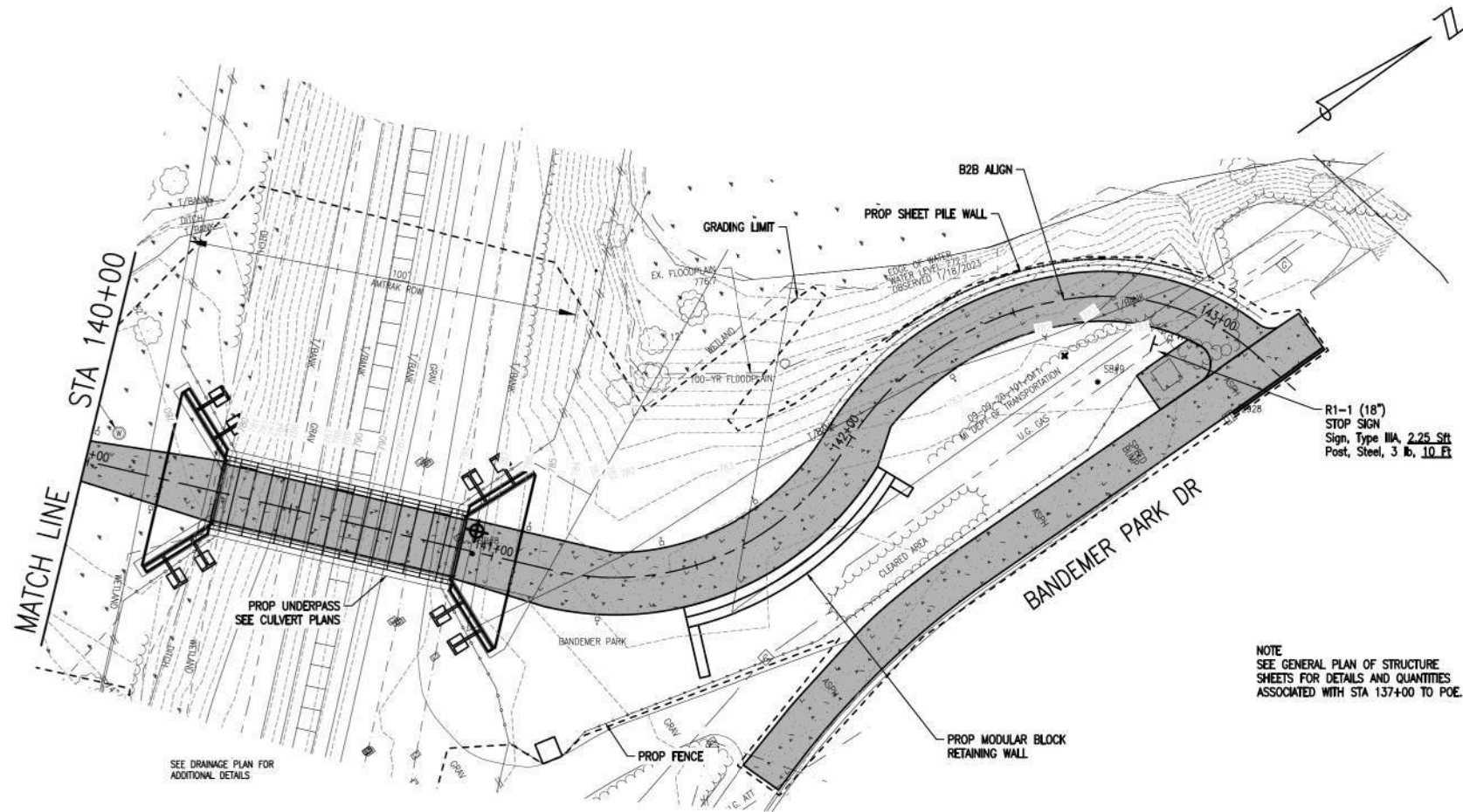
NOTE
 SEE GENERAL PLAN OF STRUCTURE
 SHEETS FOR DETAILS AND QUANTITIES
 ASSOCIATED WITH STA 137+00 TO POE.



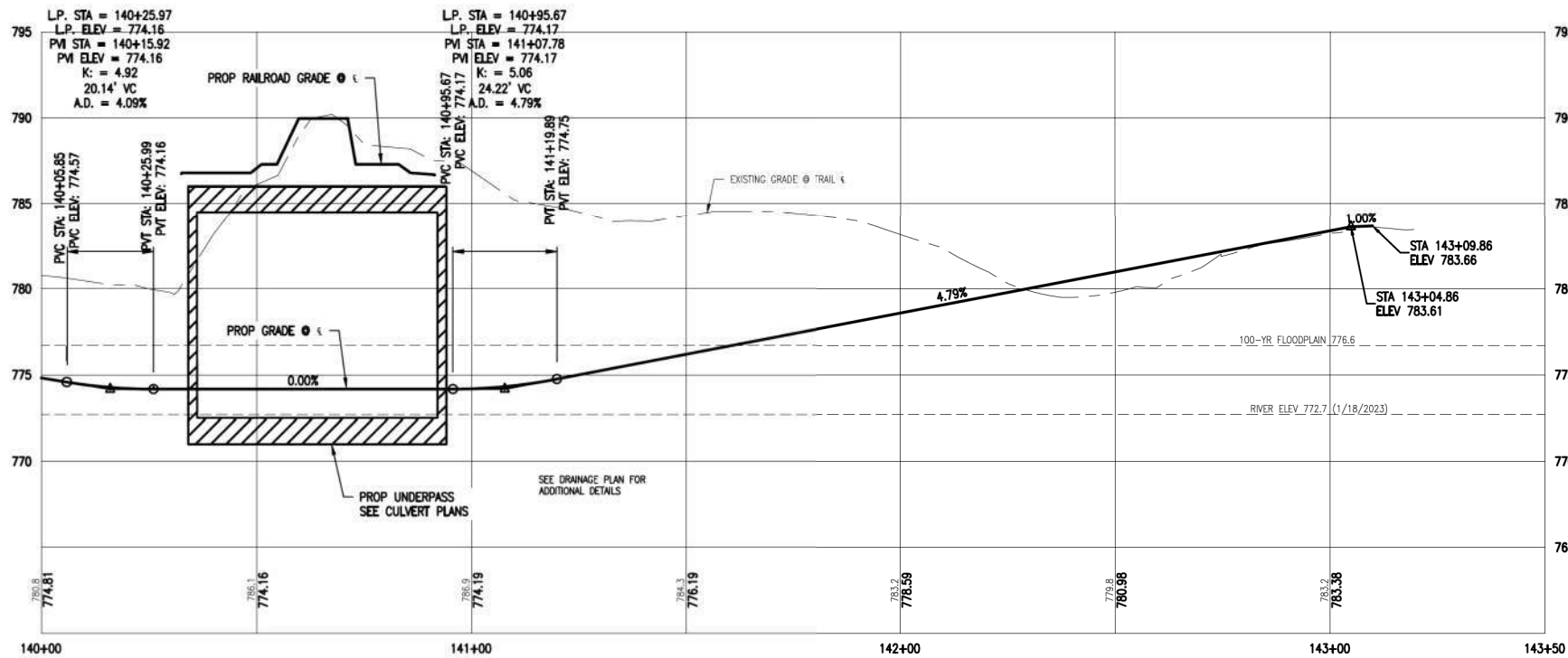
Know what's below.
 Call before you dig.

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SOL BORING #8
 N 293047.00
 E 13291046.00 ELEV 787.46
 SOL BORING #9
 N 293194.00
 E 13291101.00 ELEV 783.64



NOTE
 SEE GENERAL PLAN OF STRUCTURE
 SHEETS FOR DETAILS AND QUANTITIES
 ASSOCIATED WITH STA 137+00 TO POE.

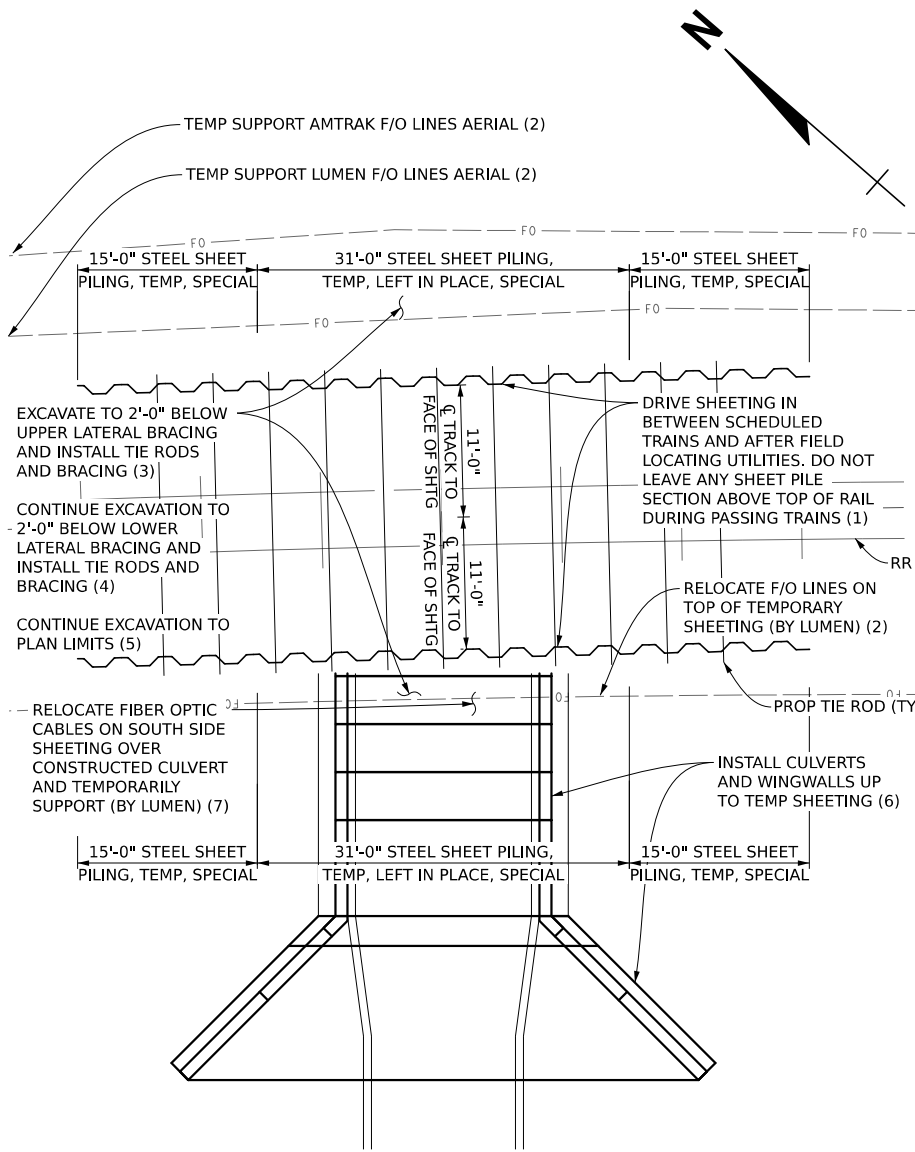


MISCELLANEOUS QUANTITIES		
305	Ft	Curb, Conc, Det E1
394	Ft	Shared use Path, Grading, Modified
698	Syd	Shared use Path, Aggregate, 6 inch, Modified
542	Syd	Shared use Path, Concrete, 6 inch
148	Syd	Shared use Path, Concrete, 6 inch, Decorative
66	Cyd	Shared use Path, Aggregate, Tunnel

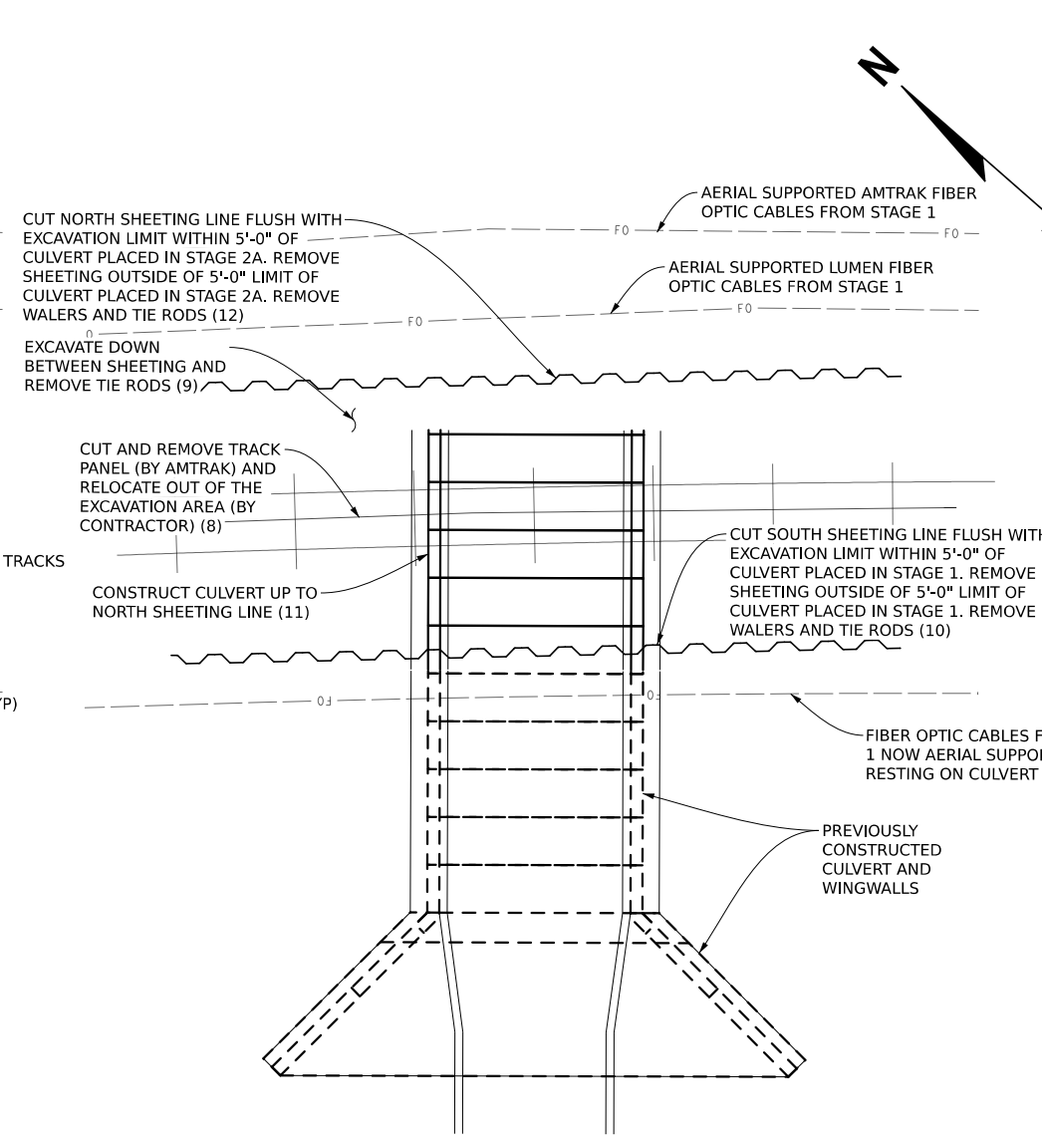
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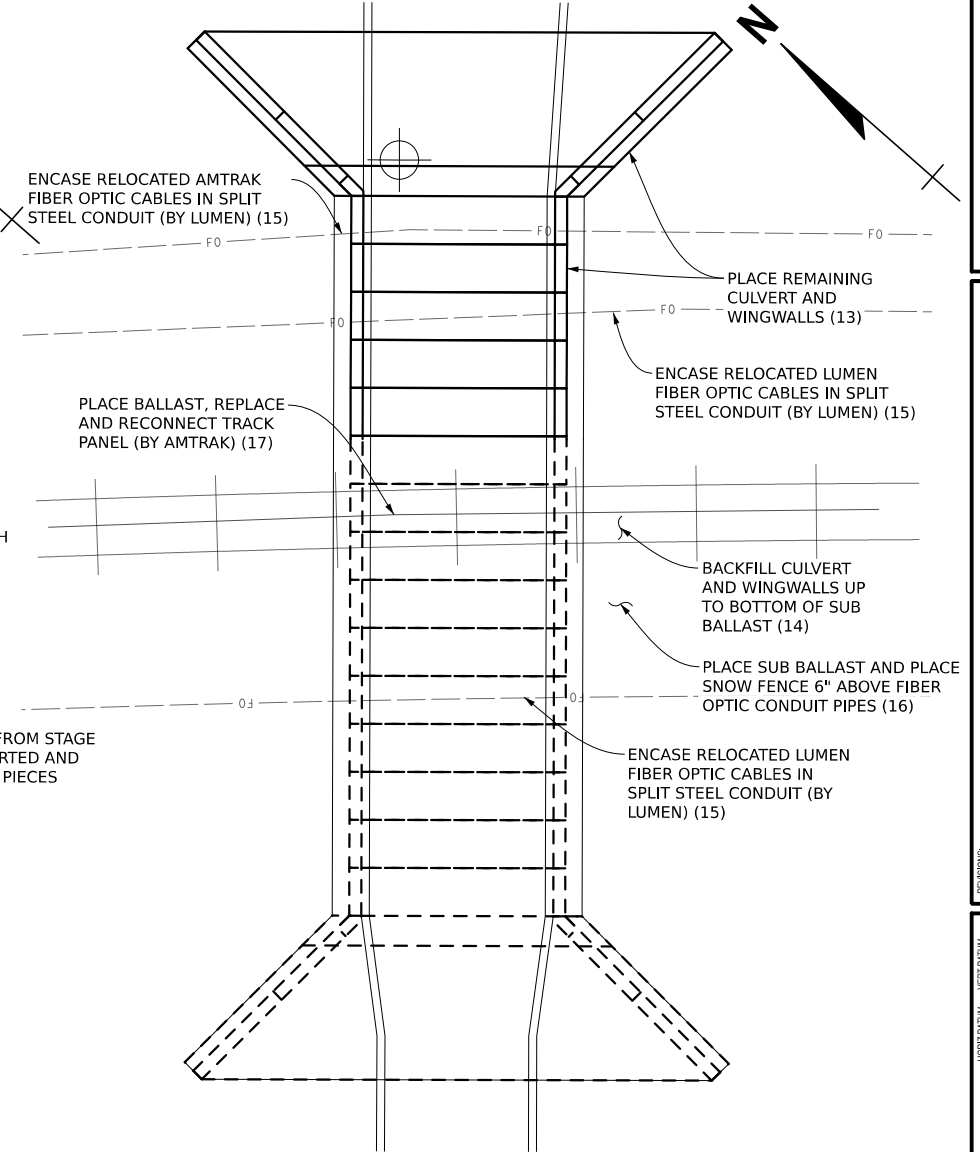
Know what's below.
 Call before you dig.



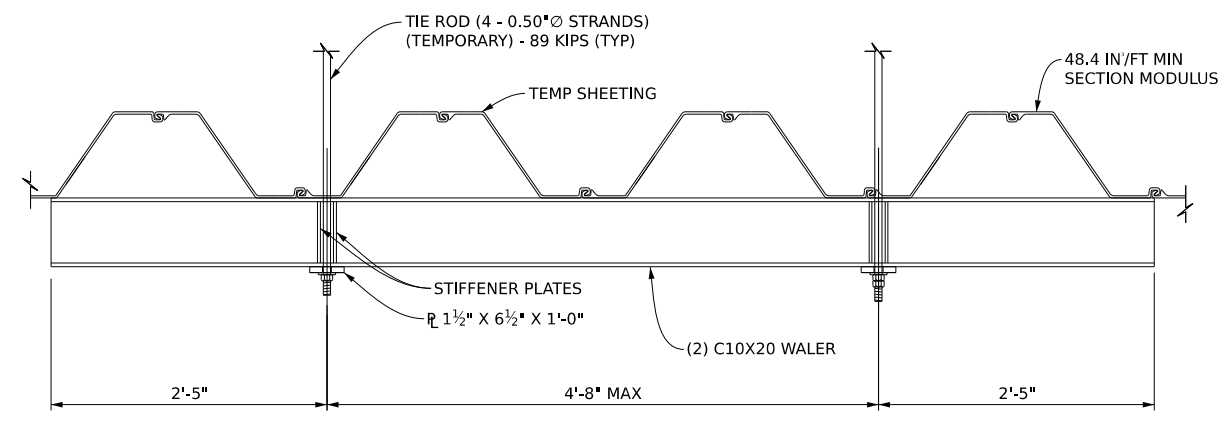
STAGE 1 - PLAN (ALTERNATIVE A)
WORK PERFORMED BETWEEN TRAINS PRIOR TO TRAIN OUTAGE



STAGE 2A (TRACK OUTAGE) - PLAN (ALTERNATIVE A)
WORKED PERFORMED DURING TRAIN OUTAGE

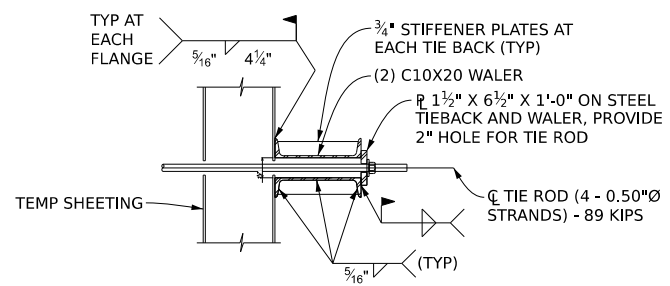


STAGE 2B (TRACK OUTAGE) - PLAN (ALTERNATIVE A)
WORK PERFORMED DURING TRAIN OUTAGE



TIE BACK AND WALER PLAN

STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 50, OR AASHTO M270, GRADE 50W.



SECTION THRU WALER

* IF THE ASSUMED SPACING BETWEEN THE WALES IS GREATER THAN THE SPACING SHOWN, THE CONTRACTOR SHALL RESIZE THE BEARING PLATE, STIFFENER PLATES, AND TIE RODS.

MISCELLANEOUS QUANTITIES			
1160	Sft	Steel Sheet Piling, Temp, Left in Place, Special	
460	Sft	Steel Sheet Piling, Temp, Special	

NOTES:

CONTRACTOR SHALL SUBMIT A WRITTEN WORK PLAN FOR DRIVING SHEETING ADJACENT TO THE TRACKS IN ACCORDANCE WITH AMTRAK'S EP3014 AND OBTAIN APPROVAL PRIOR TO MOBILIZING EQUIPMENT AND DRIVING SHEETING.

VIBRATORY HAMMERS ARE NOT PERMITTED.

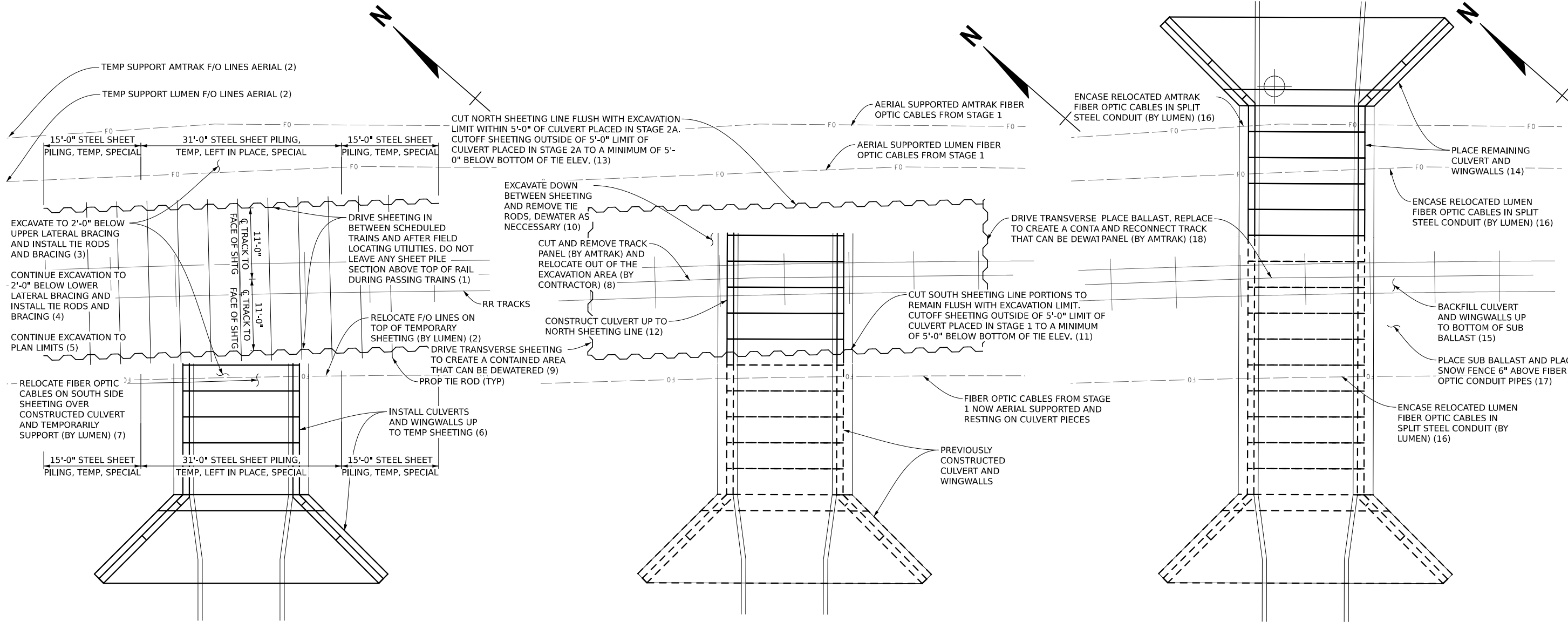
ALTERNATIVE A AND B ARE PROVIDED HERE WHICH THE CONTRACTOR CAN CHOOSE FOR HIS OPERATIONS. QUANTITIES WILL BE BASED ON ALTERNATIVE A REGARDLESS OF THE METHOD USED BY THE CONTRACTOR.

THE SEQUENCE SHOWN IS INDICATED BY NUMBERS IN PARENTHESIS ANTICIPATED FOR EACH STEP OF CONSTRUCTION. DEVIATIONS FROM THIS PLAN REQUIRES APPROVAL BY AMTRAK. THE CONTRACTOR MUST SUBMIT UPDATED PLANS AND CALCULATIONS FOR ANY DEVIATIONS TO AMTRAK IN ACCORDANCE WITH AMTRAK ENGINEERING PRACTICES EP3014. NO ADDITIONAL TIME WILL BE GRANTED DUE TO REVISIONS AND APPROVAL TIME FROM AMTRAK.

REVISIONS: VERT DATUM: VERT DATUM: NA/DBS
HORZ DATUM: HORZ DATUM: NA/DBS
SCALE: 1" = 16'
CITY/VILLAGE/TOWNSHIP: WASHINGTON
COUNTY: WASHTENAW
CITY OF ANN ARBOR
CADD: JAH
PROJ/MGR: JAH
ENG: JAH
DATE: 4/12/2024

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
CONSTRUCTION STAGING DETAILS

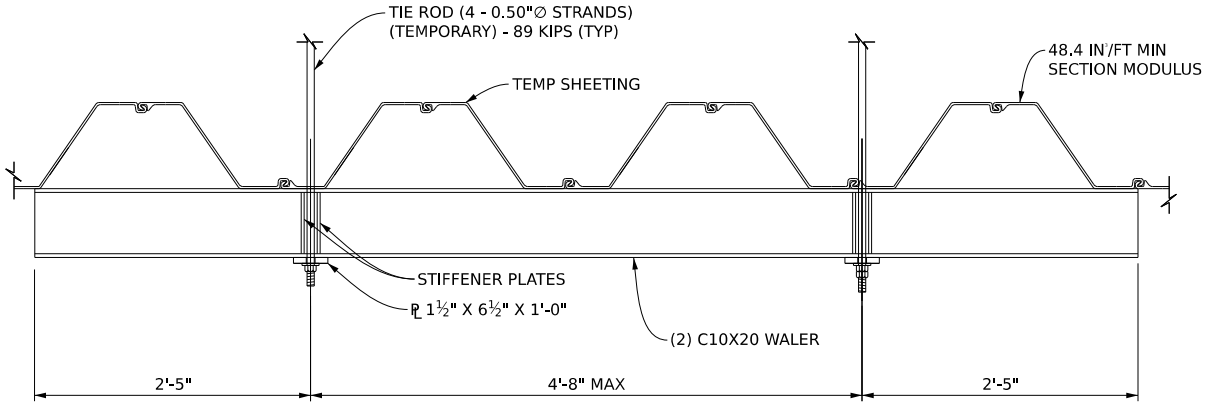
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STAGE 1 - PLAN (ALTERNATIVE B)
WORK PERFORMED BETWEEN TRAINS PRIOR TO TRAIN OUTAGE

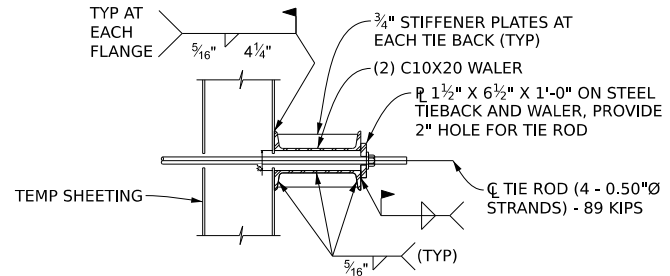
STAGE 2A (TRACK OUTAGE) - PLAN (ALTERNATIVE B)
WORK PERFORMED DURING TRAIN OUTAGE

STAGE 2B (TRACK OUTAGE) - PLAN (ALTERNATIVE B)
WORK PERFORMED DURING TRAIN OUTAGE



TIE BACK AND WALER PLAN

STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270, GRADE 50, OR AASHTO M270, GRADE 50W.



SECTION THRU WALER

* IF THE ASSUMED SPACING BETWEEN THE WALES IS GREATER THAN THE SPACING SHOWN, THE CONTRACTOR SHALL RESIZE THE BEARING PLATE, STIFFENER PLATES, AND TIE RODS.

NOTES:

- CONTRACTOR SHALL SUBMIT A WRITTEN WORK PLAN FOR DRIVING SHEETING ADJACENT TO THE TRACKS IN ACCORDANCE WITH AMTRAK'S EP3014 AND OBTAIN APPROVAL PRIOR TO MOBILIZING EQUIPMENT AND DRIVING SHEETING.
- VIBRATORY HAMMERS ARE NOT PERMITTED.
- ALTERNATIVE A AND B ARE PROVIDED HERE WHICH THE CONTRACTOR CAN CHOOSE FOR HIS OPERATIONS. QUANTITIES WILL BE BASED ON ALTERNATIVE A REGARDLESS OF THE METHOD USED BY THE CONTRACTOR.
- THE SEQUENCE SHOWN IS INDICATED BY NUMBERS IN PARENTHESIS ANTICIPATED FOR EACH STEP OF CONSTRUCTION. DEVIATIONS FROM THIS PLAN REQUIRES APPROVAL BY AMTRAK. THE CONTRACTOR MUST SUBMIT UPDATED PLANS AND CALCULATIONS FOR ANY DEVIATIONS TO AMTRAK IN ACCORDANCE WITH AMTRAK ENGINEERING PRACTICES EP3014. NO ADDITIONAL TIME WILL BE GRANTED DUE TO REVISIONS AND APPROVAL TIME FROM AMTRAK.

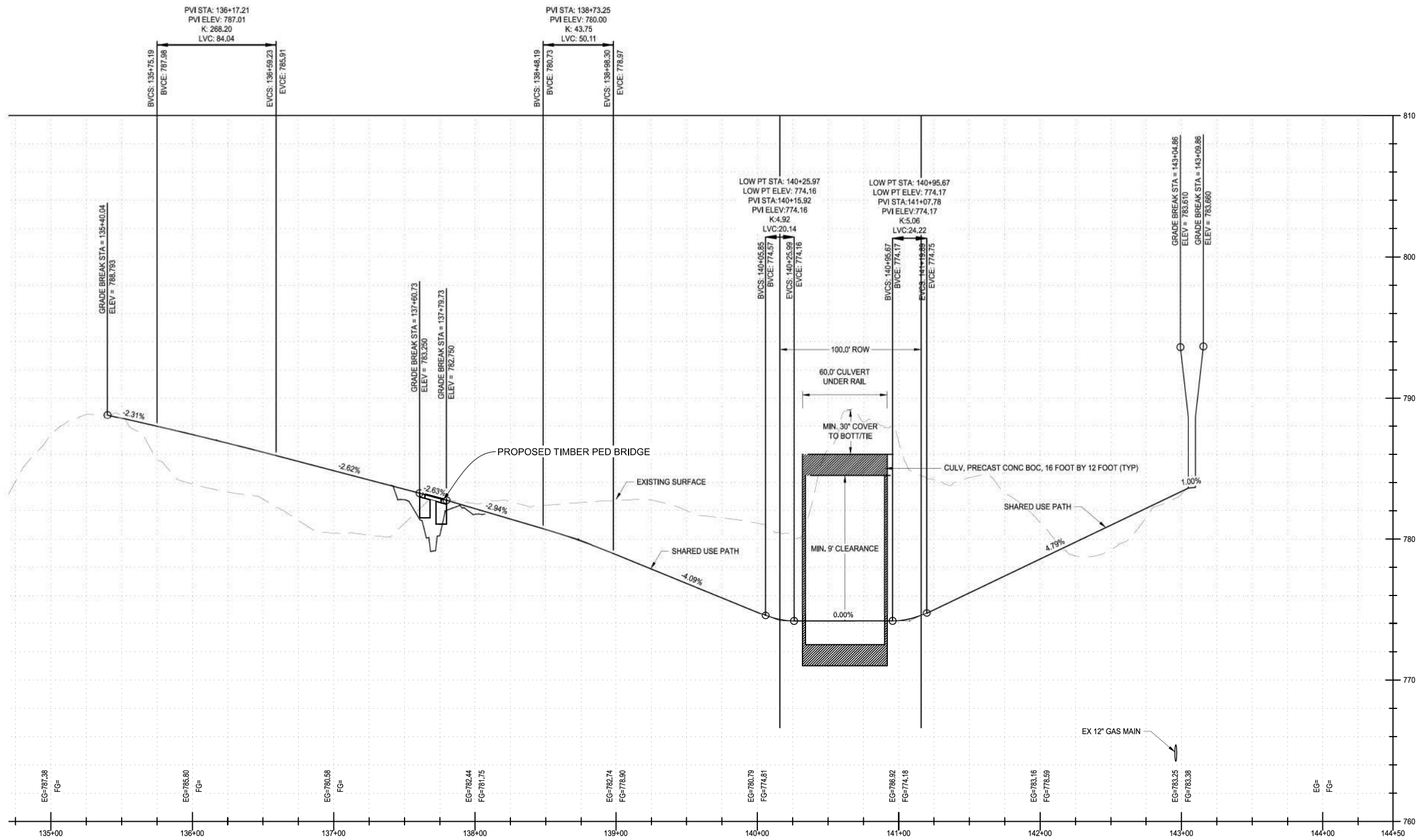
REVISIONS: [Blank] CITY/VILLAGE/TOWNSHIP: ANN ARBOR COUNTY: WASHTENAW CADD: JAH PROJ/DR: JAH PROJ/ENR: JAH DATE: 4/12/2024

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT

CONSTRUCTION STAGING DETAILS

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PROFILE THROUGH PROPOSED CULVERT

1" = 8' VERTICAL
1" = 80' HORIZONTAL

REVISIONS:

HORIZ. DATUM: NAVD83

SCALE: H: 1" = 50'

V: 1" = 5'

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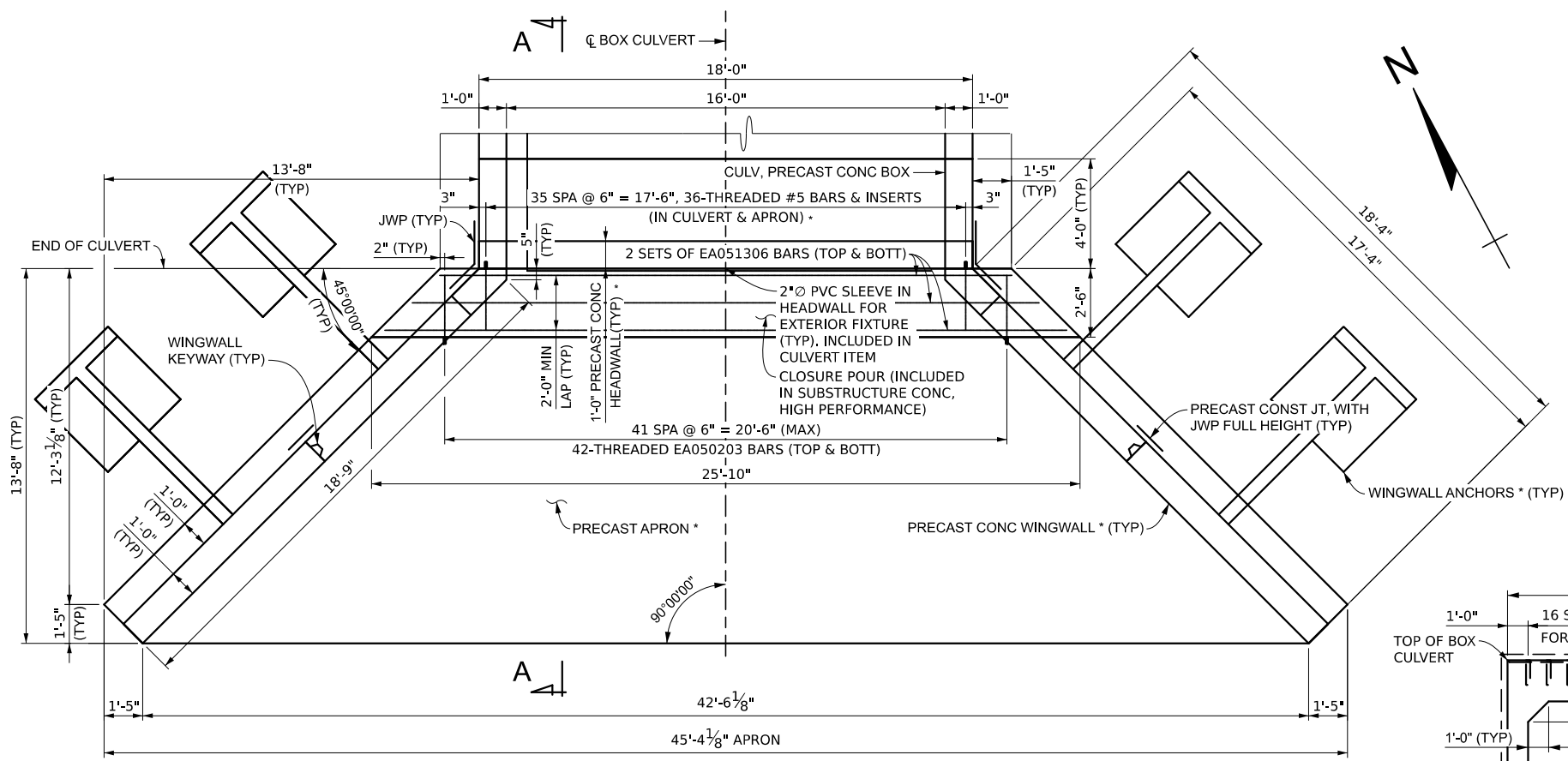
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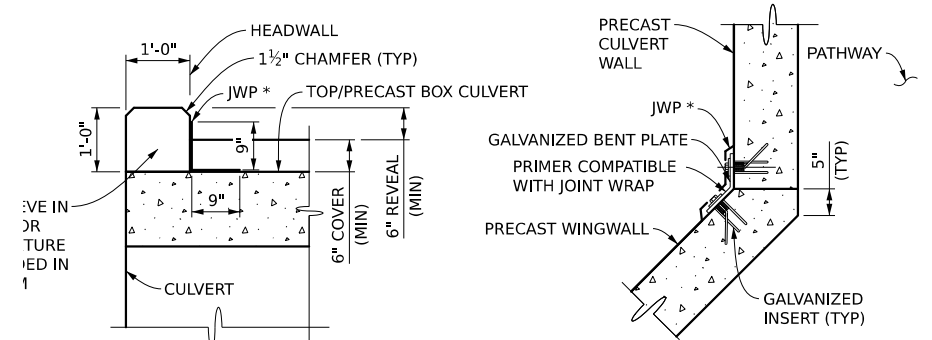
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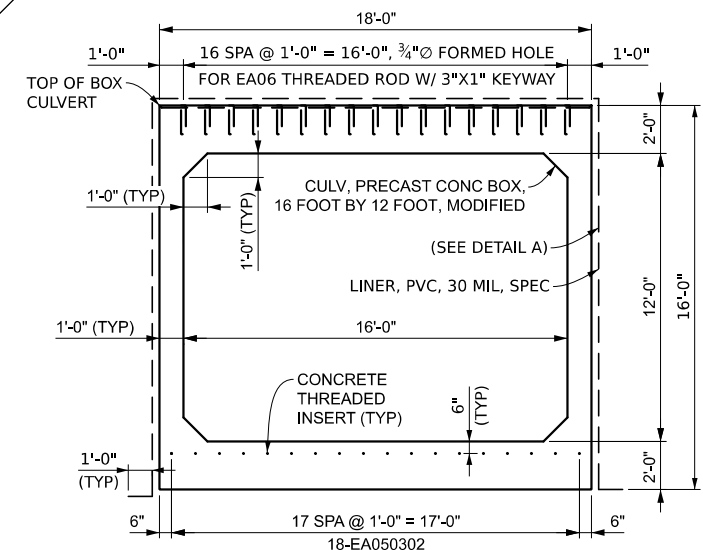
CULVERT END PLAN

* INCLUDED IN "CULV, PRECAST CONC BOX, 16 FOOT BY 12 FOOT, MODIFIED" (TYP)

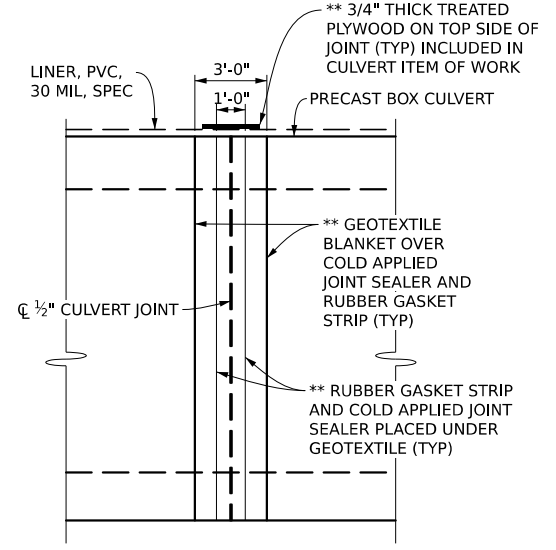


CONNECTION DETAILS

* 18" WIDE JOINT WATERPROOFING TO COVER THE JOINT BETWEEN THE HEADWALL, WINGWALL, AND THE CULVERT (ENTIRE LENGTH)



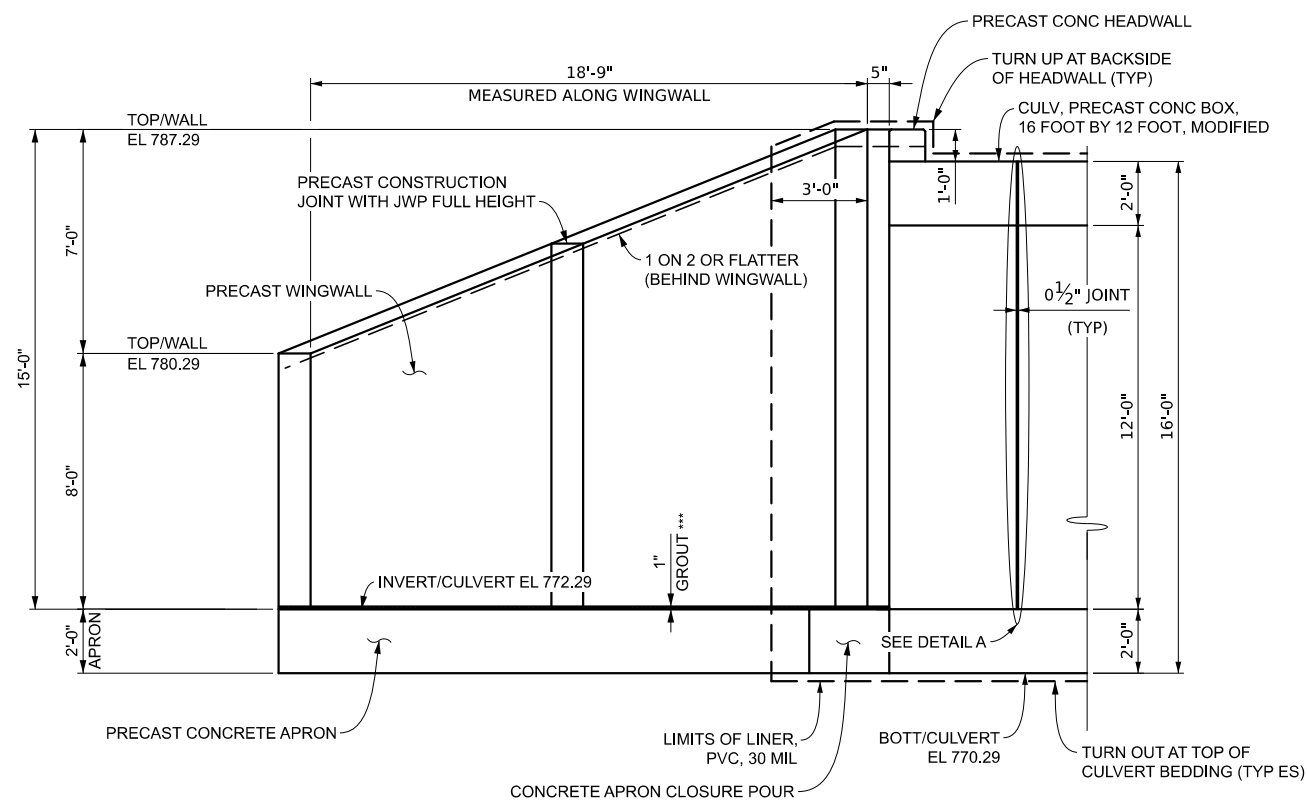
END CULVERT ELEVATION



DETAIL A

(TYPICAL ELEVATION AT CULVERT JOINT)

** THESE ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE PAY ITEM "CULV, PRECAST CONC BOX, 16 FOOT BY 12 FOOT, MODIFIED"

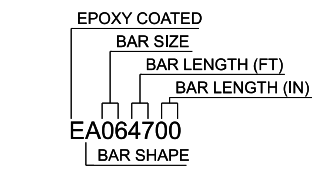


SECTION A-A

(TYP ALL QUADRANTS)

*** WINGWALL GROUT SUPPLIED WITH PRECAST WINGWALLS INCLUDED IN "CULV, PRECAST CONC BOX, 16 FOOT BY 12 FOOT, MODIFIED" (TYP)

CLOSURE	BAR	DIMENSIONS										NO REQ'D	TOTAL WEIGHT	
		A	B	C	D	E	F	G	H	J				
	EA050203	2'-3"											168	395
	EA051306	13'-6"											24	338
TOTAL REINFORCEMENT:												733		



BAR LEGEND

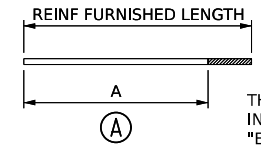
MISCELLANEOUS QUANTITIES		
60	Ft	Culv, Precast Conc Box, 16 foot by 12 foot
733	Lb	Reinforcement, Steel, Epoxy Coated
9	Cyd	Substructure Conc, High Performance
415	Syd	Liner, PVC, 30 mil

NOTES:

FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103.

APPLY LOW TEMPERATURE PROTECTION OF CONCRETE ACCORDING TO SECTION 706.03 J. OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE IS INCLUDED IN RELATED ITEMS OF WORK.

FOR THE PURPOSE OF PLAN DEVELOPMENT, PRECAST CONCRETE BOX CULVERT TOP AND BOTTOM FLANGES HAS BEEN ASSUMED TO BE 12 INCHES THICK, AND THE SIDE WALLS HAVE BEEN ASSUMED TO BE 12 INCHES THICK. IF THE CULVERT THICKNESS MUST VARY FROM THIS ASSUMPTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

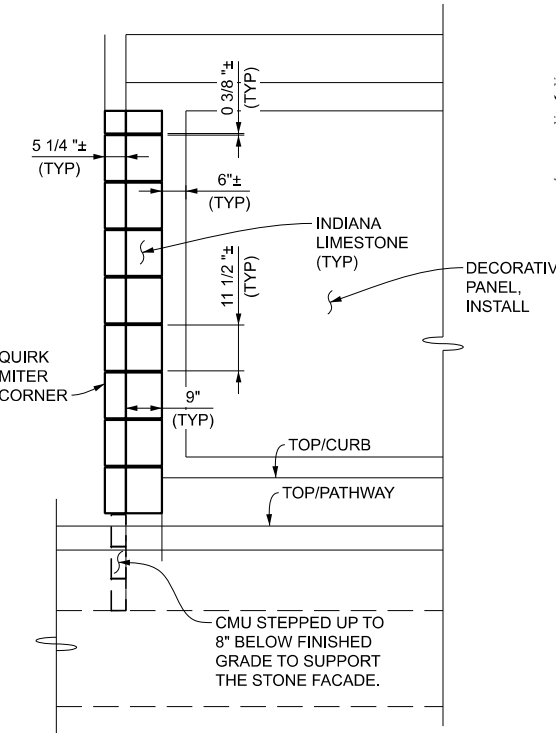
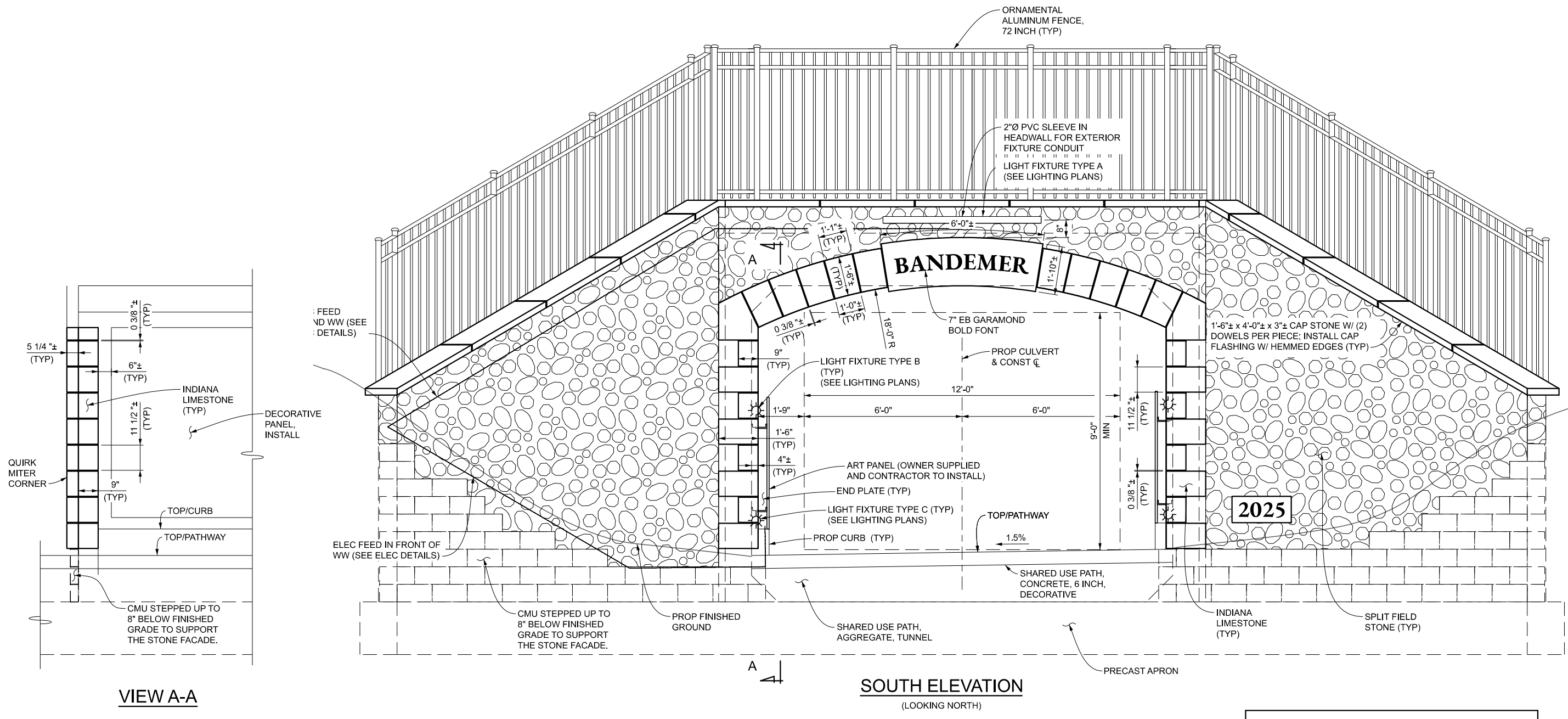


THREADING OF REINFORCEMENT INCLUDED IN THE BID ITEM "ENFORCEMENT STEEL, EPOXY COAT"

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CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
BOX CULVERT DETAILS

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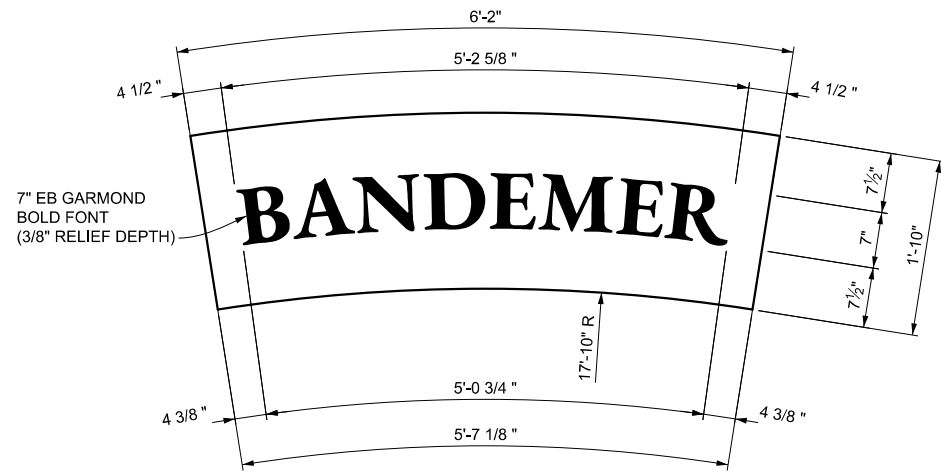


VIEW A-A

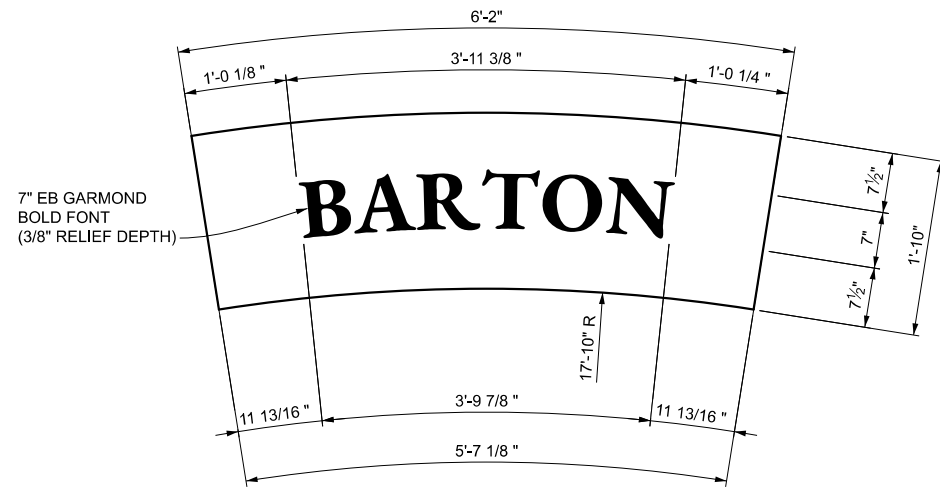
SOUTH ELEVATION
(LOOKING NORTH)

MISCELLANEOUS QUANTITIES		
117	Ft	Limestone Cap
132	Sft	Limestone Block
637	Sft	Split Field Stone
1	Ea	Limestone Sign, "Bandemer"
1	Ea	Limestone Sign, "Barton"
2	Ea	Limestone Sign, "2024"

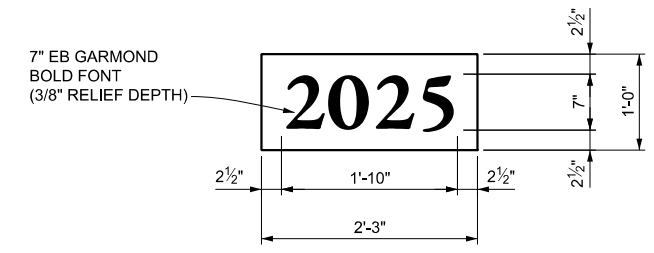
REVISIONS: _____
 HORZ. DATUM: VERT. DATUM: _____
 SCALE: HORIZ. (FT) 1"=4' VERT. (FT) 1"=4'
 CITY/VILAGE/TOWNSHIP: ANN ARBOR COUNTY: WASHTENAW CADD: JAH PROJ./MR: JAH/JAH ENG: JAH DATE: 4/12/2024
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
AESTHETIC TREATMENT DETAILS



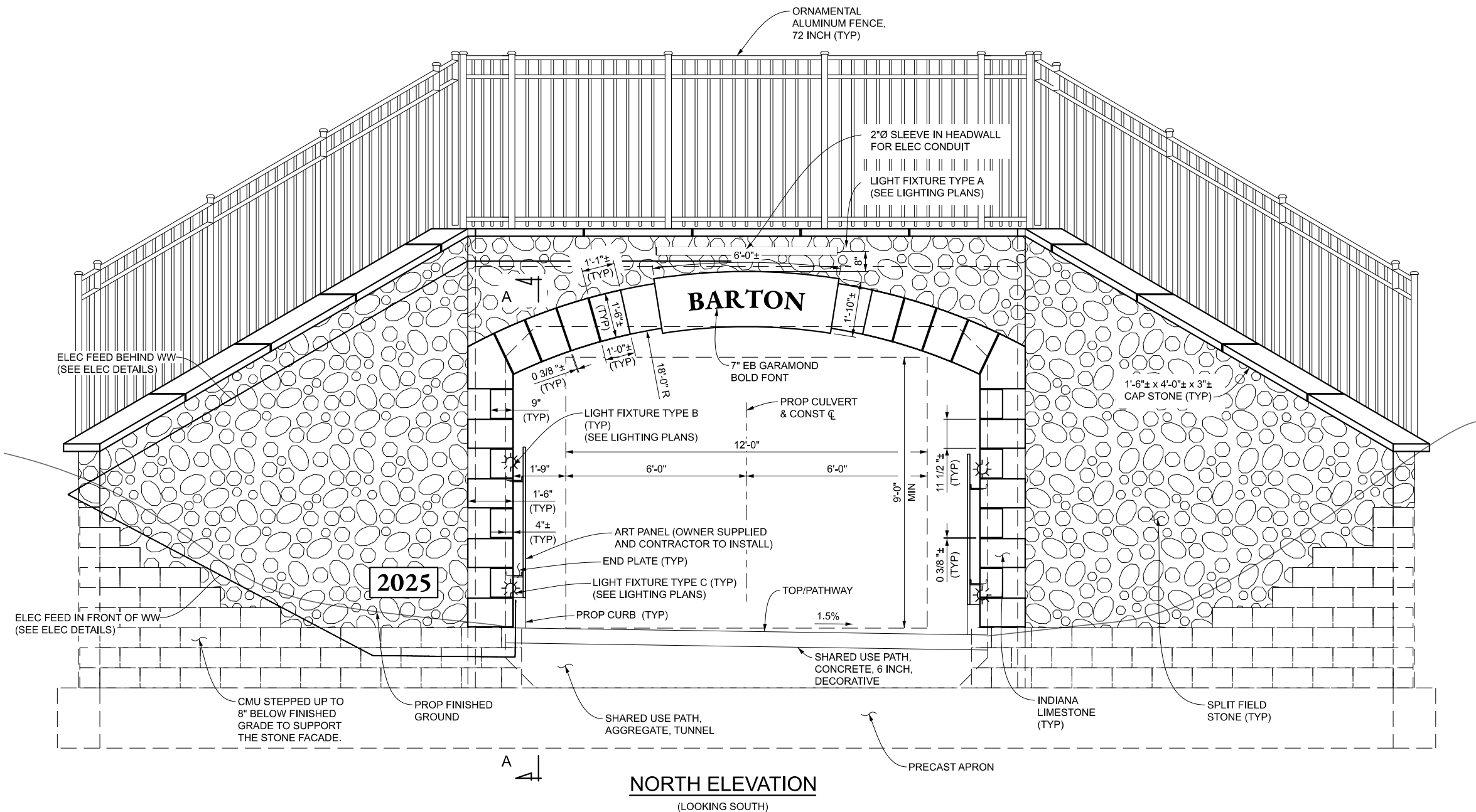
BANDEMER STONE DETAIL



BARTON STONE DETAIL



2025 STONE DETAIL



REVISIONS:

CITY/VILLAGE/TOWNSHIP

CADDD

COUNTY

SCALE

HORIZ. DATUM

VERT. DATUM

DATE

PROJ. NUMBER

PROJ. NAME

PROJ. NUMBER

PROJ. NAME

PROJ. NUMBER

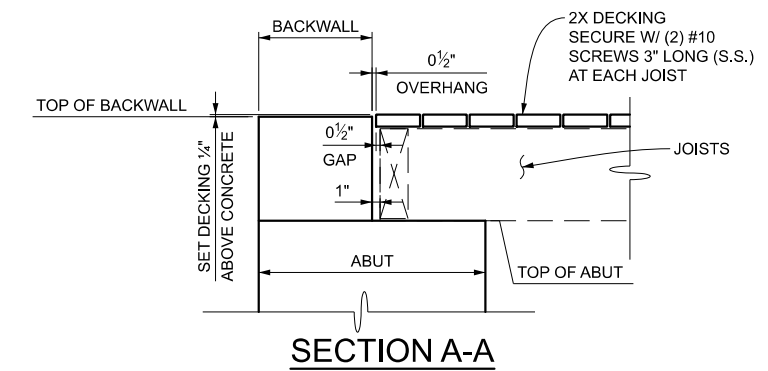
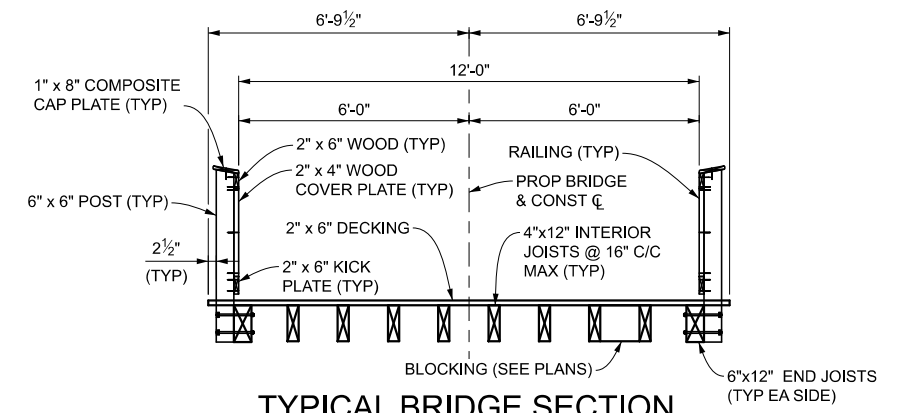
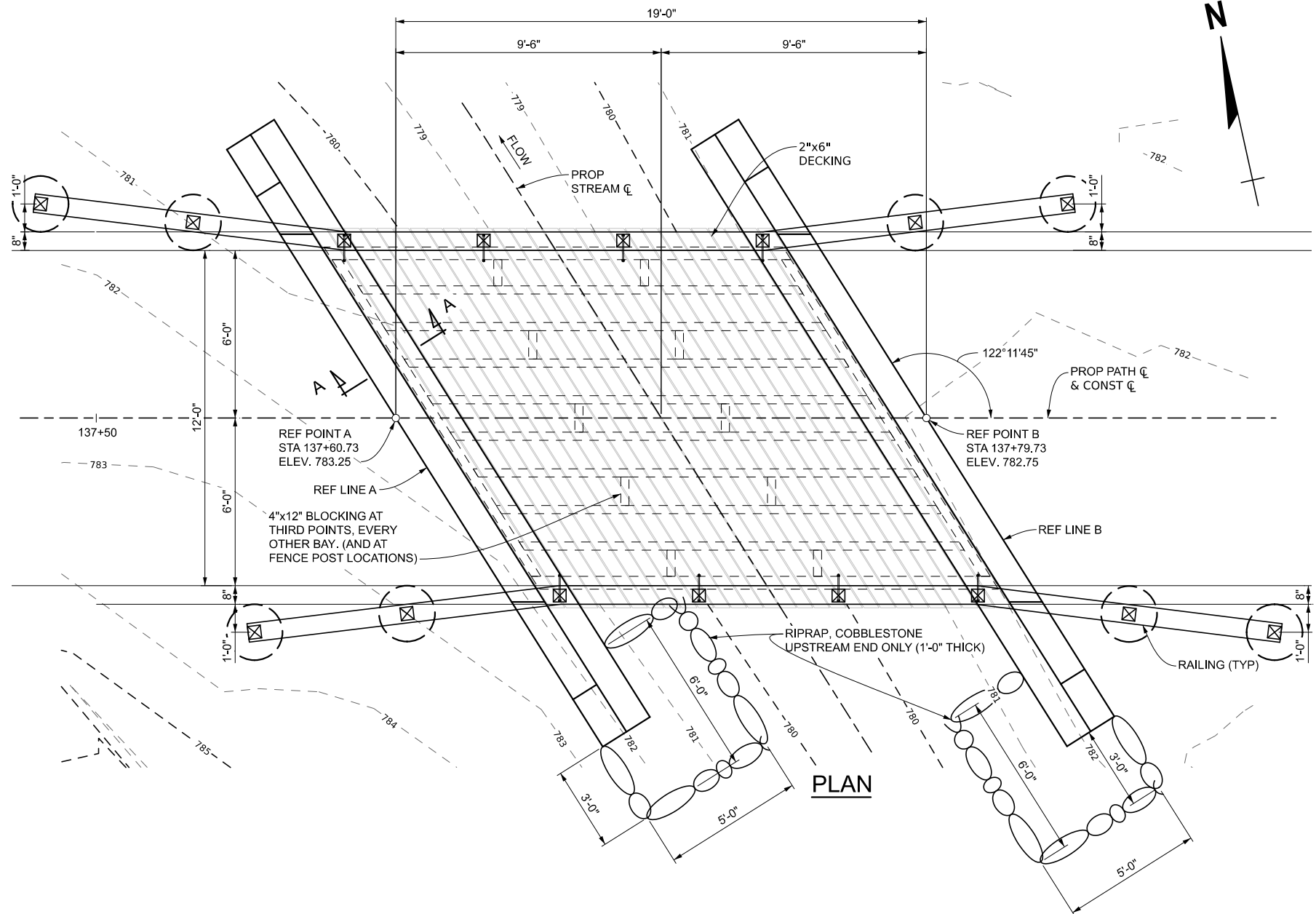
PROJ. NAME

PROJ. NUMBER

PROJ. NAME

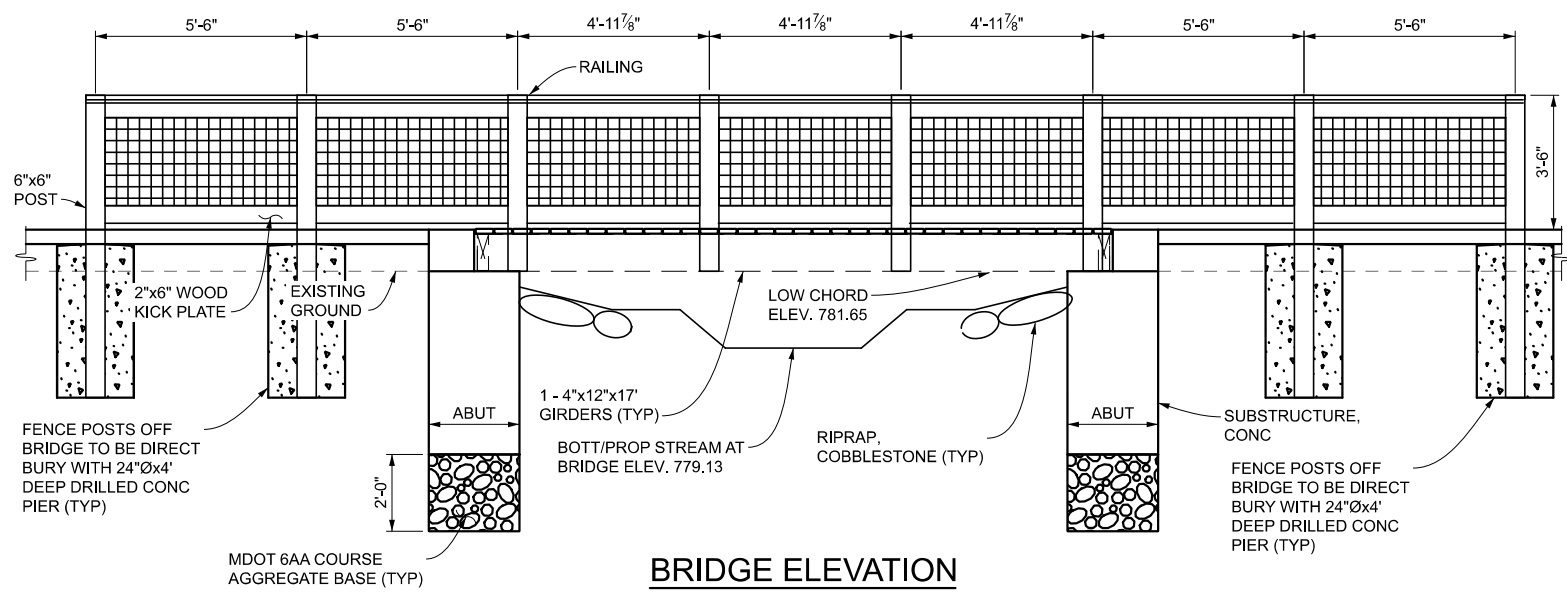
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
AESTHETIC TREATMENT DETAILS

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REINFORCEMENT SCHEDULE (ABUT A & B)					
BAR MARK	"a"	"b"	"c"	NO.	WT.
EA041602	16'-2"			4	43
EA042002	20'-2"			4	54
ED040510	2'-7"	8"	2'-7"	40	156
EA062411	24'-11"			20	749
ED061102	4'-9"	1'-8"	4'-9"	25	420
ED061202	5'-3"	1'-8"	5'-3"	25	457
				TOTAL:	1879

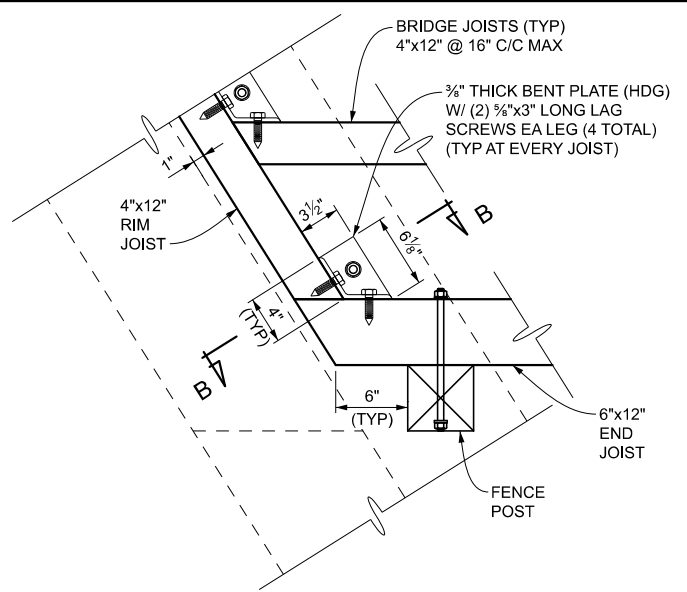
MISCELLANEOUS QUANTITIES			
8	Cyd	Aggregate, 6A	
1879	Lb	Reinforcement, Steel, Epoxy Coated	
27	Cyd	Substructure Conc, High Performance	
1	LSUM	Timber Bridge	
4	Syd	Riprap, Cobblestone	



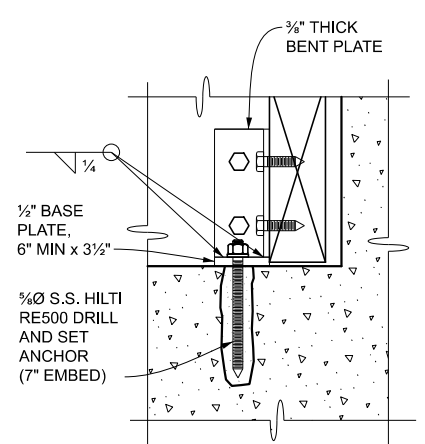
- NOTES:**
- ALL TIMBER (EXCEPT THAT NOTED AS COMPOSITE) SHALL BE SOUTHERN YELLOW PINE #2 OR BETTER AND PRESSURE TREATED TO 0.23 PCF (GROUND CONTACT RATED) WITH MCA.
 - ALL COMPOSITE MATERIAL SHALL BE TREX, TIMBER TECH OR APPROVED EQUIVALENT. COORDINATE COLOR WITH ENGINEER.
 - ALL STEEL FASTENERS SHALL BE HOT DIPPED GALVANIZED. COUNTER SINK ALL SCREW CONNECTIONS 1/4".
 - 2"(H) X 2"(V) 16 GAUGE BLACK VINYL COATED WELDED WIRE STEEL MESH PANEL SET IN A WOODEN FRAME. (COVER ALL SHARP ENDS OF MESH PANEL WITH WOODEN FRAMING MEMBERS). CONTRACTOR SHALL PROVIDE SHOP DRAWINGS.
 - BENT PLATES SHALL BE HOT DIPPED GALVANIZED AFTER BENDING AND DRILLING OF HOLES.

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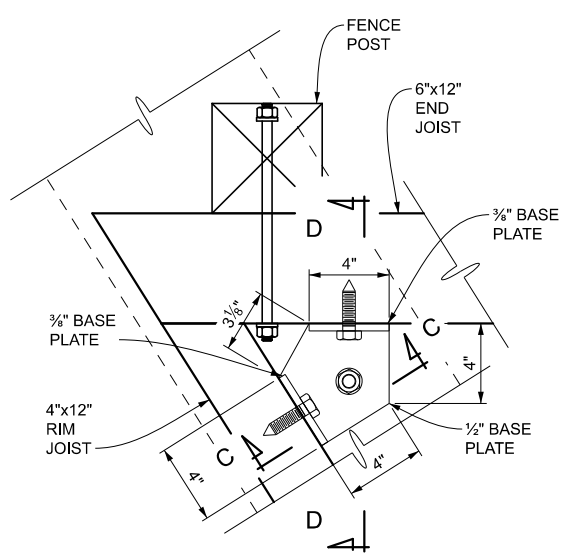
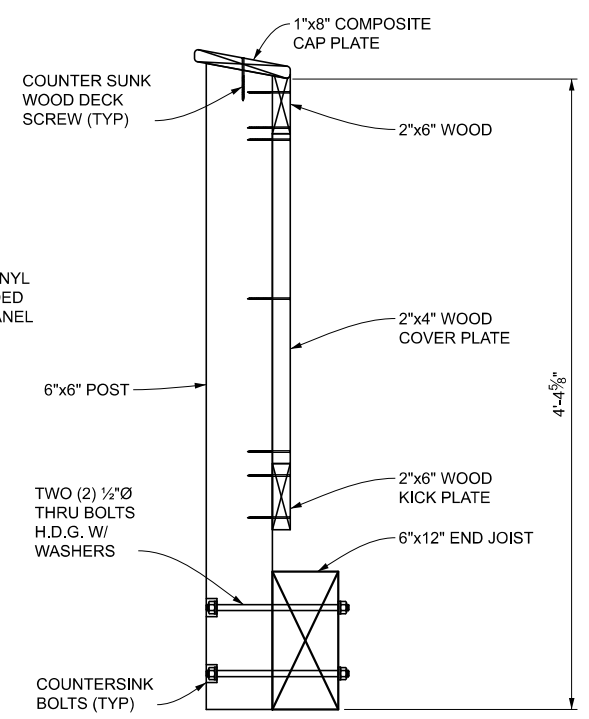
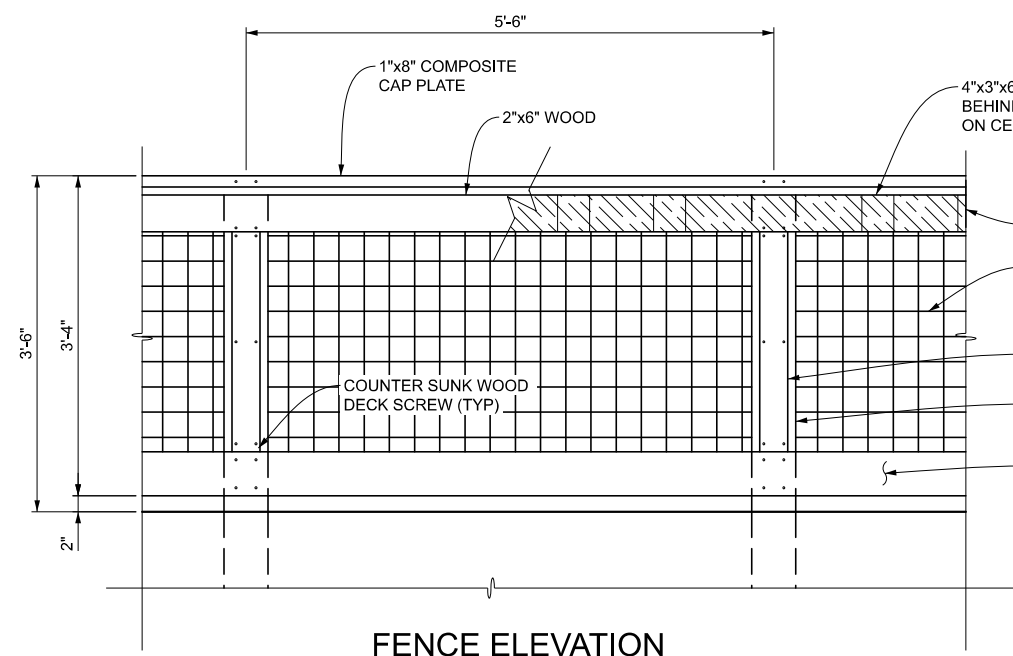
CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
PEDESTRIAN TIMBER BRIDGE DETAILS



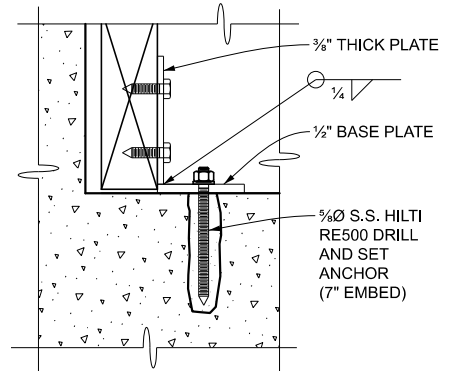
BASE PLATE PLAN
(OBTUSE ANGLE)



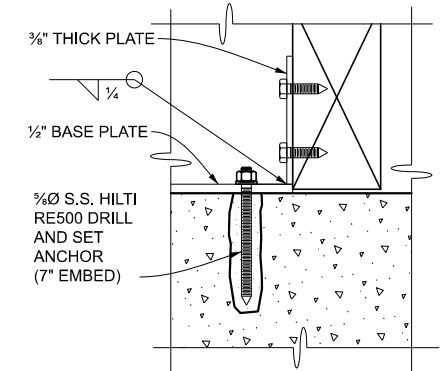
SECTION B-B



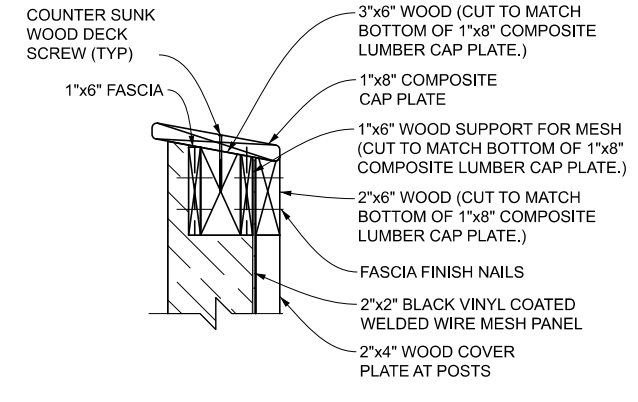
BASE PLATE PLAN
(ACUTE ANGLE)



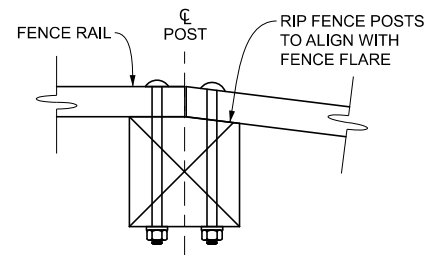
SECTION C-C



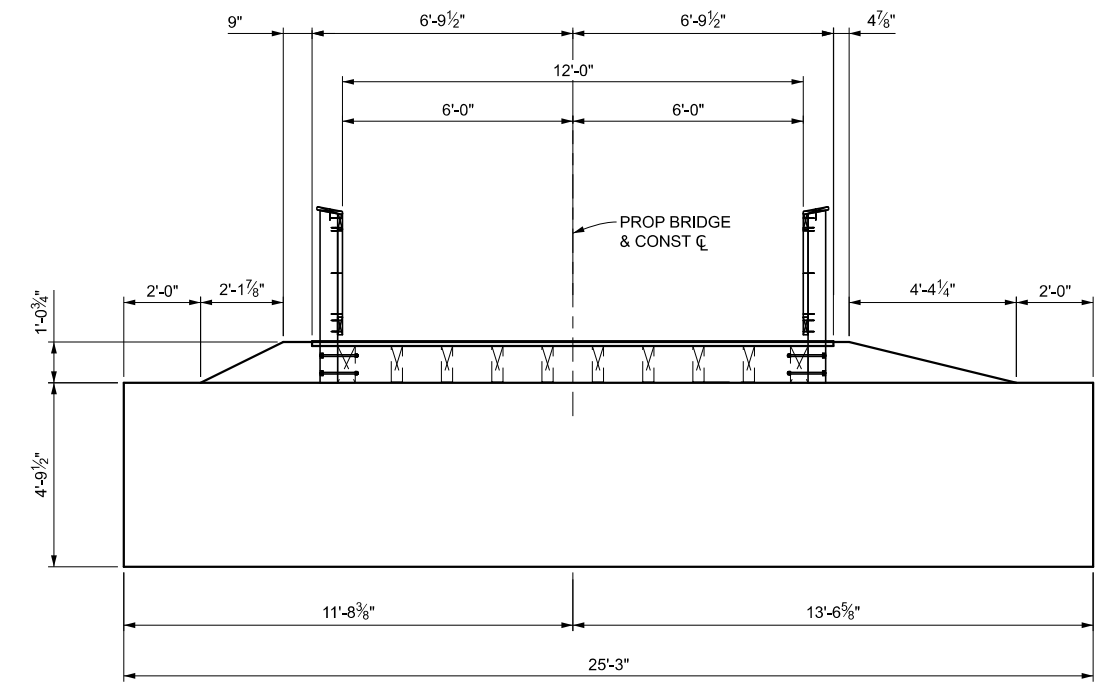
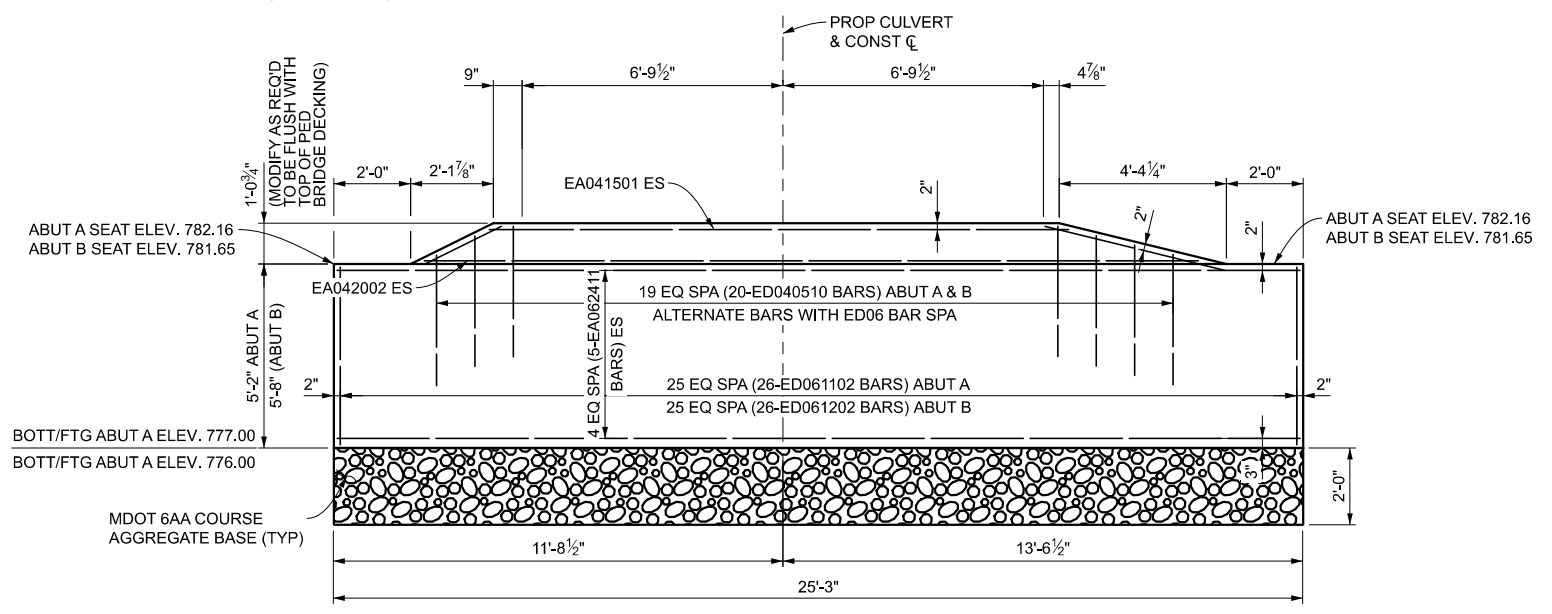
SECTION D-D



RAILING CAP DETAIL



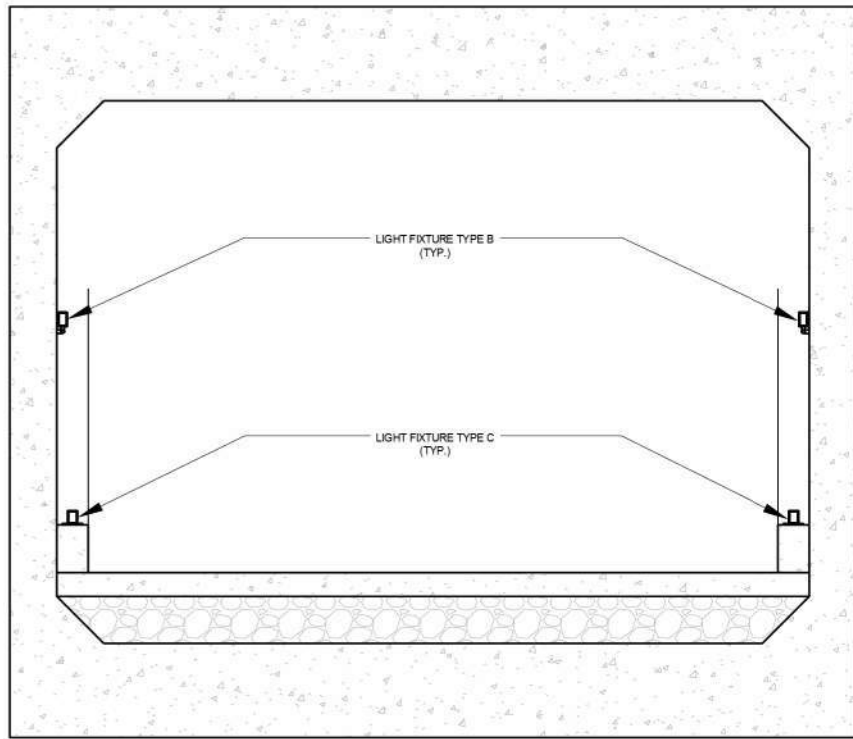
**FENCE POST
AT RAILING BEND**



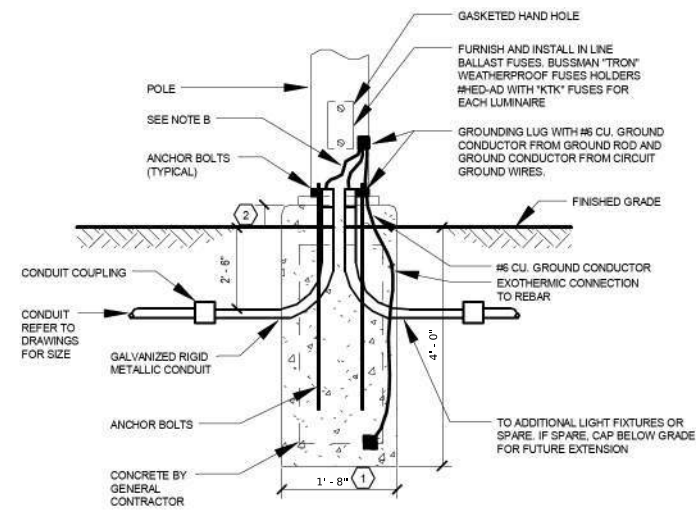
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SHEET NO. PROJECT NO. DATE 4/12/2024 PROJ/IMR ENG JAH PROJ/IMR CAD JAH COUNTY WASHTENAW CITY/VILLAGE/TOWNSHIP CITY OF ANN ARBOR SCALE 1/8"=1'-0" VERT DATUM NAVD83 HORIZ DATUM NAVD83 REVISIONS

CITY OF ANN ARBOR PRS & WASHTENAW COUNTY PRC
BARTON/BANDEMER PARK PEDESTRIAN TUNNEL PROJECT
PEDESTRIAN TIMBER BRIDGE DETAILS



2 TUNNEL SECTION
SCALE: 1/4" = 1'-0"



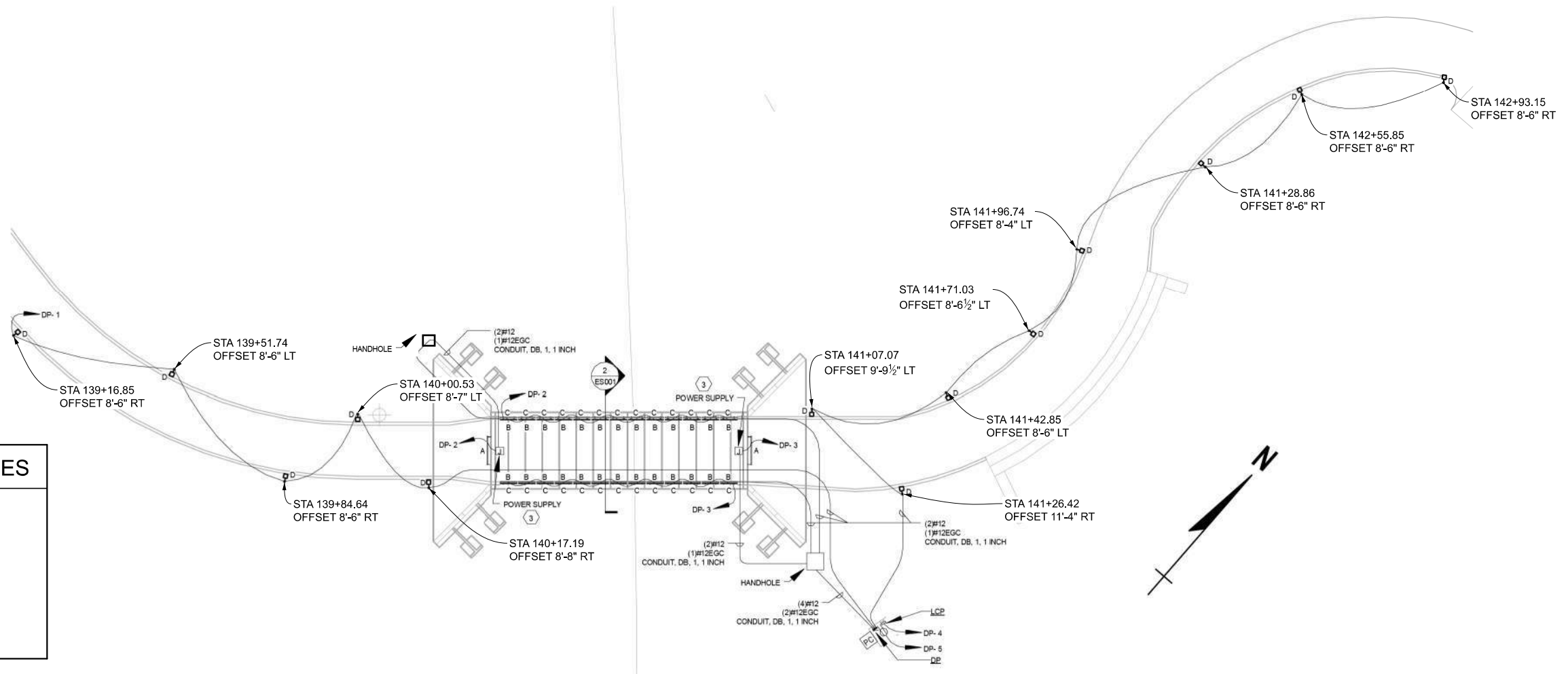
3 TYPICAL LIGHT POLE BASE - GRASS DETAIL

GENERAL NOTES:

- A. FURNISH POLE BASE TEMPLATE TO GENERAL CONTRACTOR PRIOR TO CONCRETE REBAR.
- B. PROVIDE GROUNDING BUSHINGS PER NEC.

KEYNOTES: (#)

- 1. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BASE SIZE AND REBAR REQUIREMENTS.
- 2. COORDINATE DIMENSIONS WITH ARCHITECT.
- 3. COORDINATE REMOTE POWER SUPPLY LOCATIONS WITH LUMINAIRE FEED POINTS.



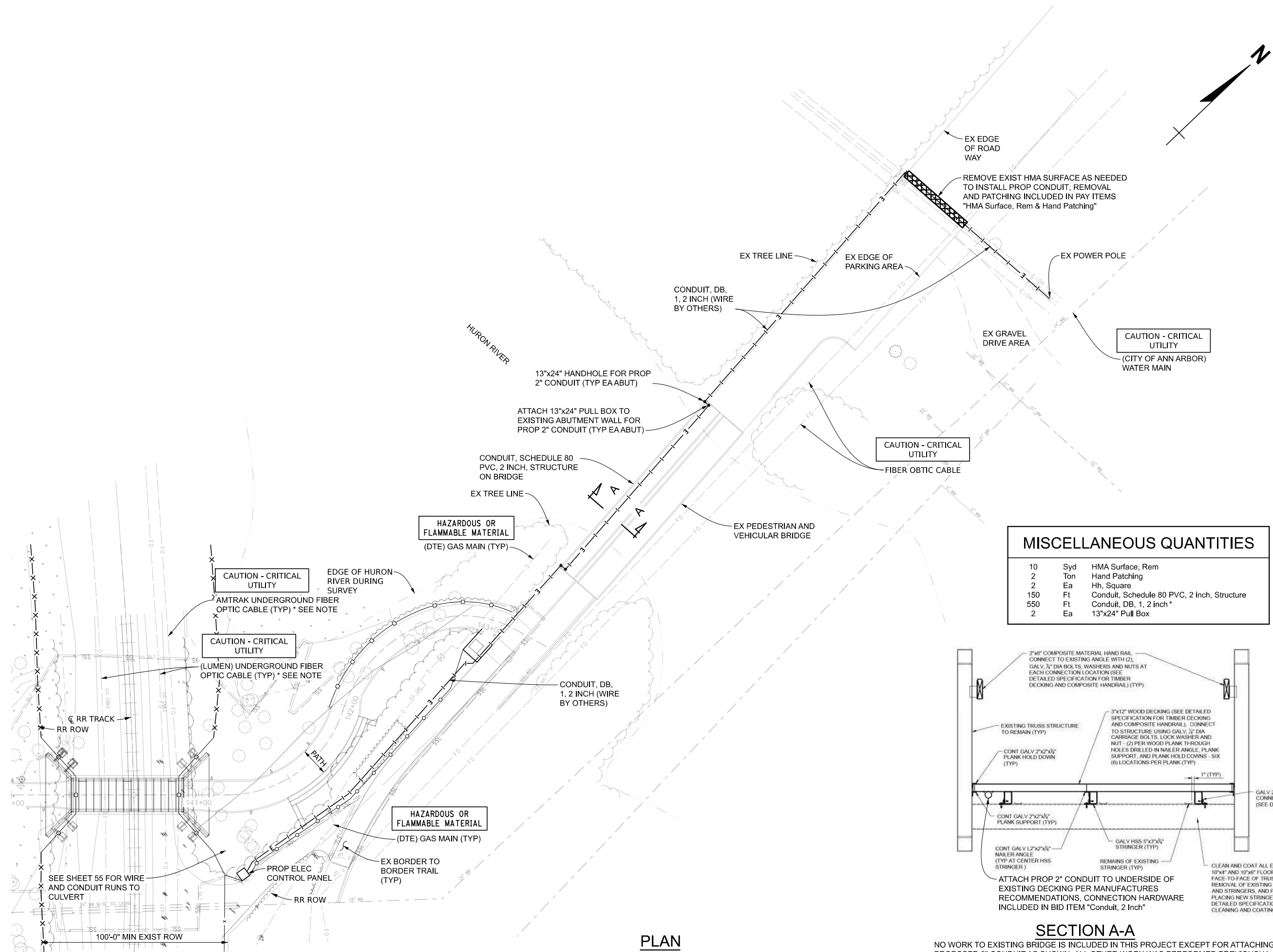
1 ELECTRICAL SITEPLAN
SCALE: 1" = 30'-0"

MISCELLANEOUS QUANTITIES

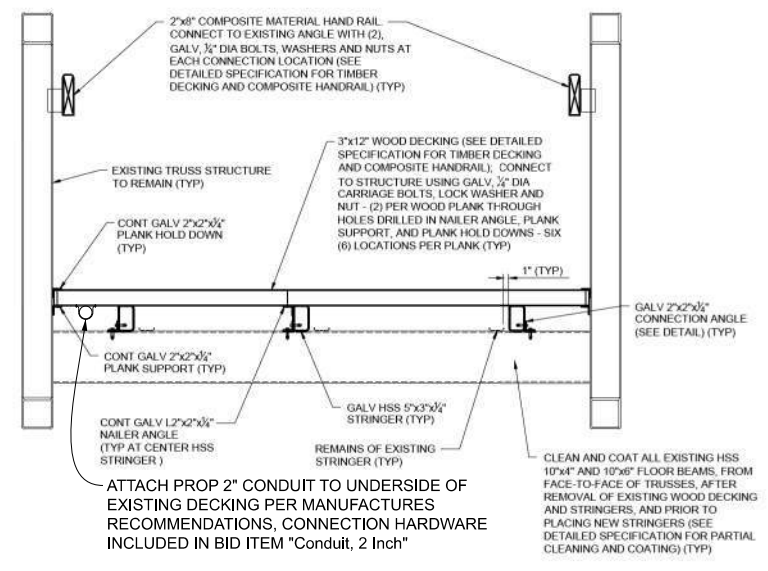
750	Ft	Conduit, DB, 1, 1 inch
2	Ea	Hh, Square
770	Ft	Cable, Grounding Wire, 1/C#12
1525	Ft	Cable, 600V, 1, 2/C#12
1	Ea	Lighting Control Panel
2	Ea	Luminaire, Wall Mount, Type A
28	Ea	Luminaire, Linear, Type B
28	Ea	Luminaire, Linear, Type C
13	Ea	Luminaire, Pole Mount, Type D
13	Ea	Light Pole Foundation
13	Ea	Light Pole, Type D Pole
20000	Dir	Electrical Utility Service

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MISCELLANEOUS QUANTITIES			
10	Syd	HMA Surface, Rem	
2	Ton	Hand Patching	
2	Ea	Hh, Square	
150	Ft	Conduit, Schedule 80 PVC, 2 inch, Structure	
550	Ft	Conduit, DB, 1, 2 inch *	
2	Ea	13"x24" Pull Box	



PLAN
SHOWING EXISTING AND PROPOSED TOPOGRAPHY

SECTION A-A
NO WORK TO EXISTING BRIDGE IS INCLUDED IN THIS PROJECT EXCEPT FOR ATTACHING THE PROPOSED 2" CONDUIT AS SHOWN. ALL OTHER WORK WAS PERFORMED PREVIOUSLY.