



Madison, Wisconsin

INDEX OF SHEETS

SHEET NO.	EC1	EROSION CONTROL PLAN
SHEET NO.	P1	PATH PLAN & PROFILE
SHEET NO.	U1	UTILITY PLAN & PROFILE
SHEET NO.	E1	ELECTRICAL PLAN
SHEET NO.	S1-S7	STRUCTURE PLANS
SHEET NO.	C1	SITE PLAN
SHEET NO.	R1	RESTORATION PLAN
SHEET NO.	PM1-PM3	PAVEMENT MARKING PLAN
SHEET NO.	TC1	PATH DETOUR PLAN
SHEET NO.	X1	CROSS SECTIONS
SHEET NO.	MN1	MAINTENANCE MAP

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

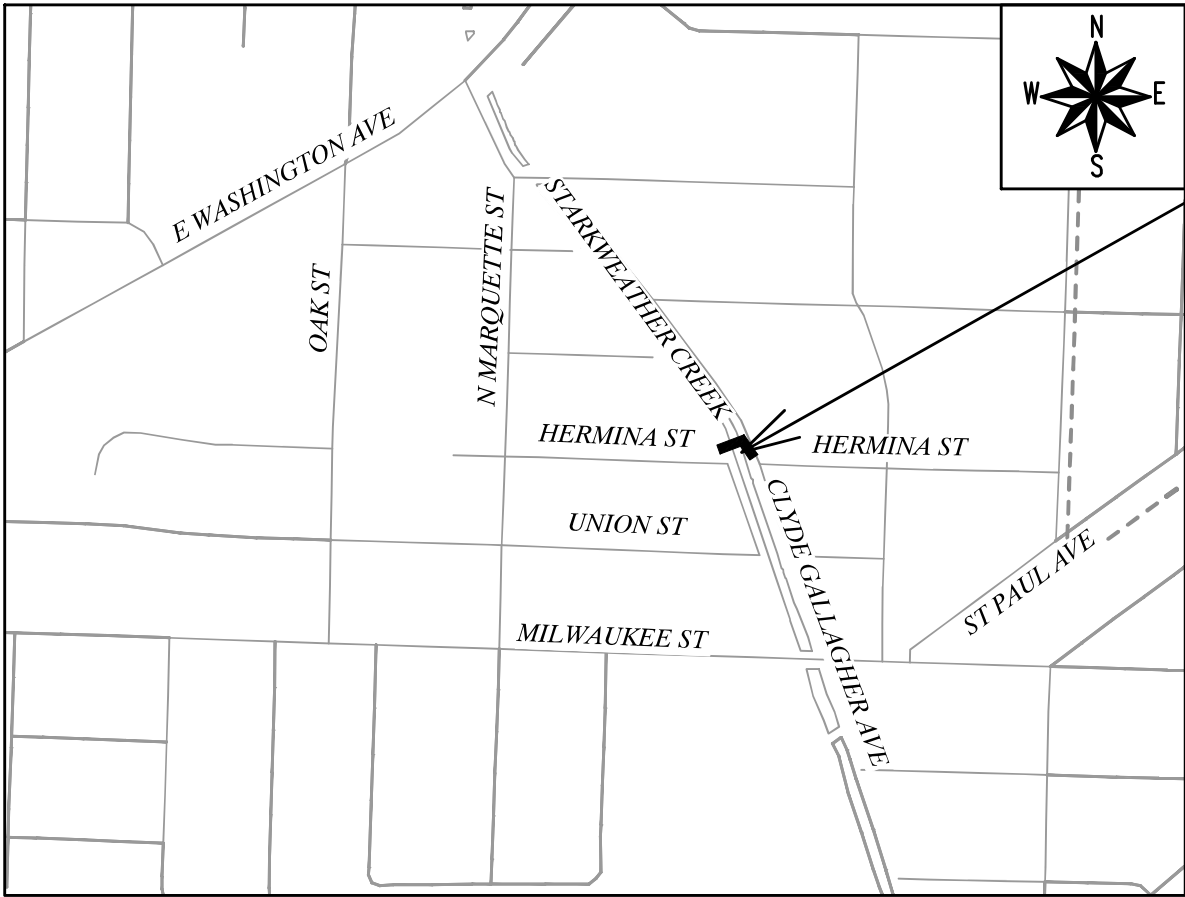
SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

HERMINA STREET PEDESTRIAN-BIKE
BRIDGE OVER STARKWEATHER CREEK

CITY PROJECT NO. 13664

CONTRACT NO. 8708



EARTHWORK SUMMARY (FOR PATH WORK):

EXCAVATION CUT (MEASURED PLAN QUANTITY)	30 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	10 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	40 CY

(EXCAVATION FOR STRUCTURE ITEMS PAID WITH SEPARATE LUMP SUM BID ITEM)

PROJECT
LOCATION

PAVEMENT MARKING
DESIGNED BY:



07/08/2026

STRUCTURES
DESIGNED BY:

SEE
INDIVIDUAL
SHEETS

PUBLIC IMPROVEMENT PROJECT
APPROVED

JANUARY 28, 2025

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

07/08/2026

City Engineer

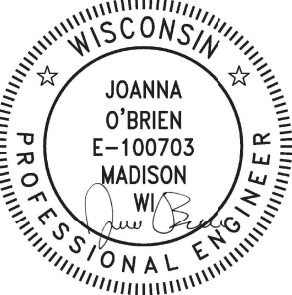
Date

PATH
DESIGNED BY:



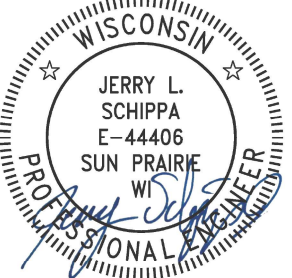
07/08/2026

STORM SEWER
DESIGNED BY:

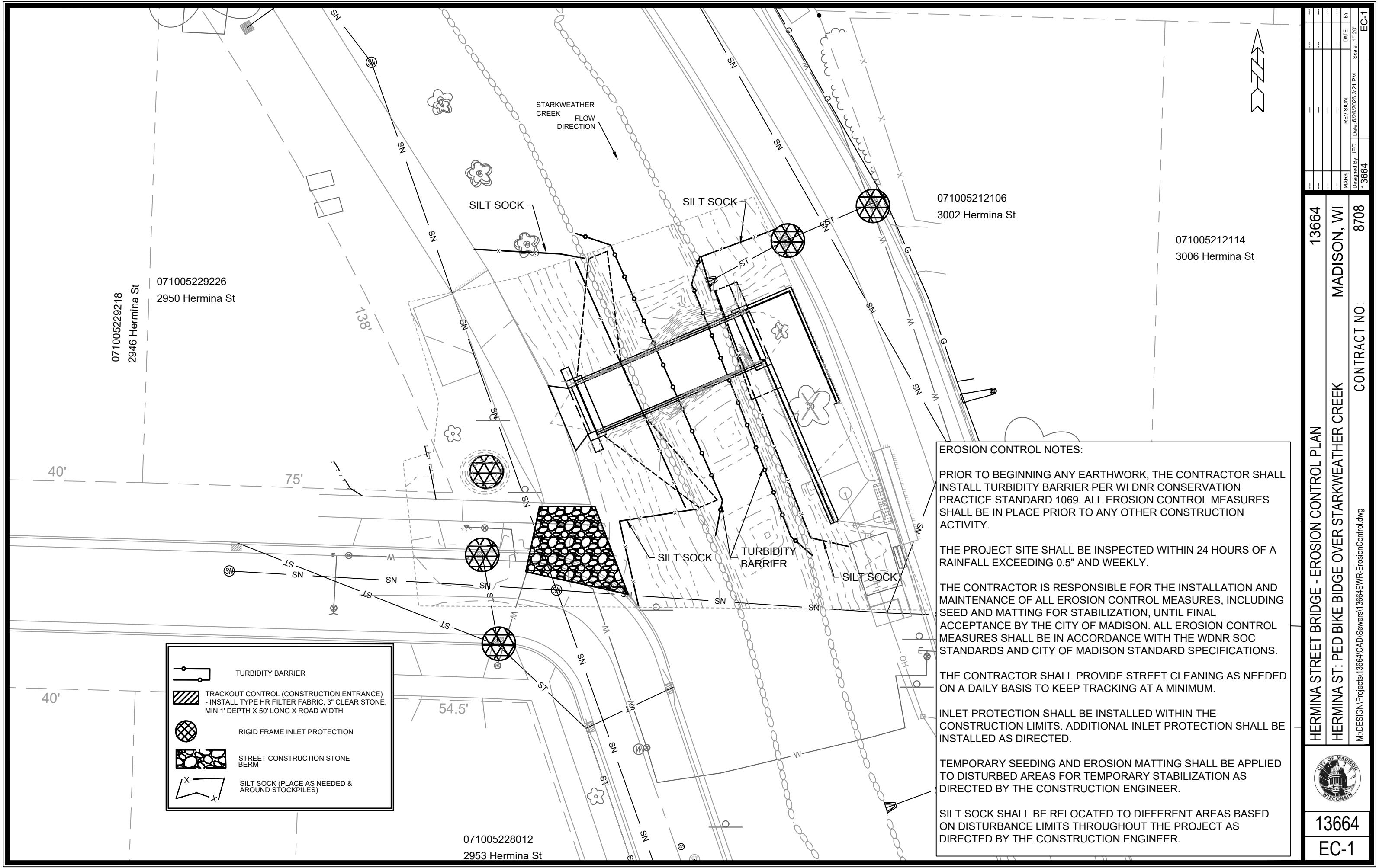


07/08/2026

ELECTRICAL
DESIGNED BY:



07/08/2026



TURBIDITY BARRIER

TRACKOUT CONTROL (CONSTRUCTION ENTRANCE)
- INSTALL TYPE HR FILTER FABRIC, 3" CLEAR STONE,
MIN 1" DEPTH X 50' LONG X ROAD WIDTH

RIGID FRAME INLET PROTECTION

STREET CONSTRUCTION STONE
BERM

SILT SOCK (PLACE AS NEEDED &
AROUND STOCKPILES)

EROSION CONTROL NOTES:

PRIOR TO BEGINNING ANY EARTHWORK, THE CONTRACTOR SHALL INSTALL TURBIDITY BARRIER PER WI DNR CONSERVATION PRACTICE STANDARD 1069. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE PROJECT SITE SHALL BE INSPECTED WITHIN 24 HOURS OF A RAINFALL EXCEEDING 0.5" AND WEEKLY.

THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES, INCLUDING SEED AND MATTING FOR STABILIZATION, UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING AT A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

TEMPORARY SEEDING AND EROSION MATTING SHALL BE APPLIED TO DISTURBED AREAS FOR TEMPORARY STABILIZATION AS DIRECTED BY THE CONSTRUCTION ENGINEER.

SILT SOCK SHALL BE RELOCATED TO DIFFERENT AREAS BASED ON DISTURBANCE LIMITS THROUGHOUT THE PROJECT AS DIRECTED BY THE CONSTRUCTION ENGINEER.

HERMINA STREET BRIDGE - EROSION CONTROL PLAN

HERMINA ST: PED BIKE BIDGE OVER STARKWEATHER CREEK



13664

13664

13664

MADISON, WI

CONTRACT NO:

EC-1

8708

13664

EC-1

DATE

REVISION

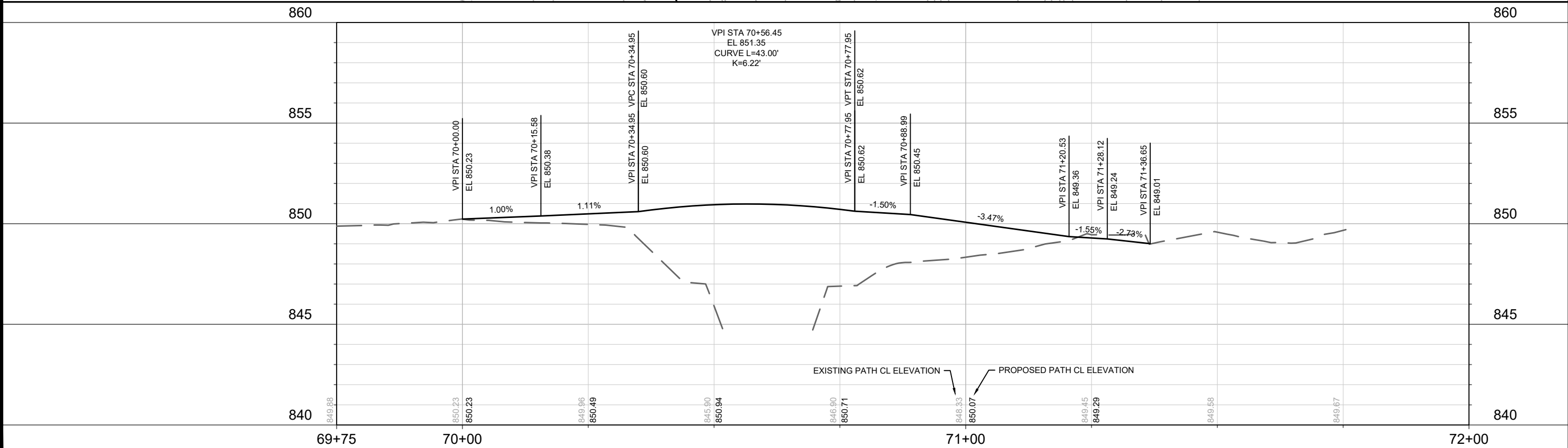
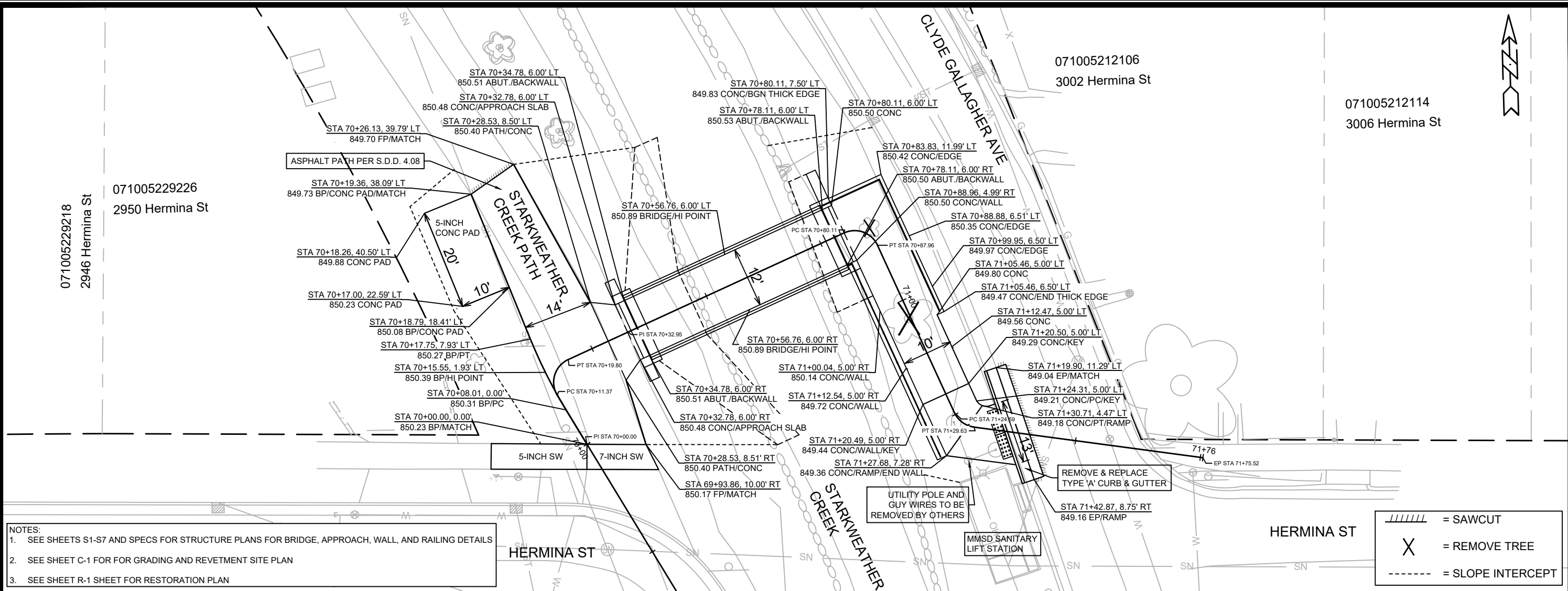
DESIGNED BY: JEO

DATE: 6/26/2026 3:21 PM

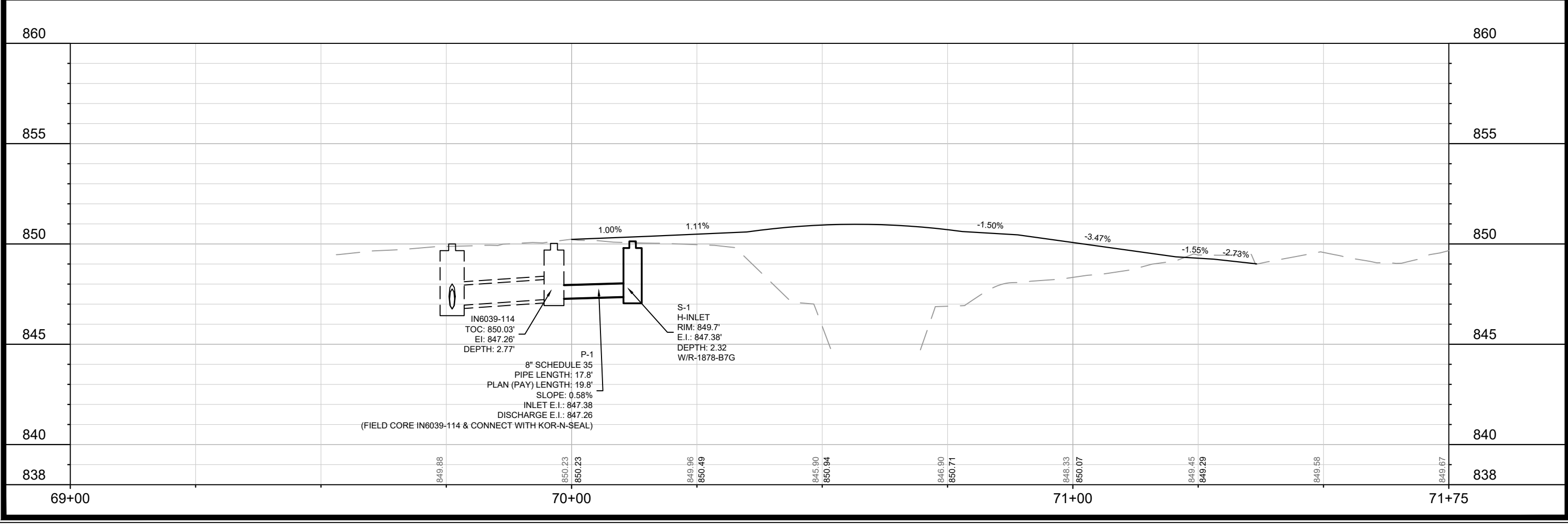
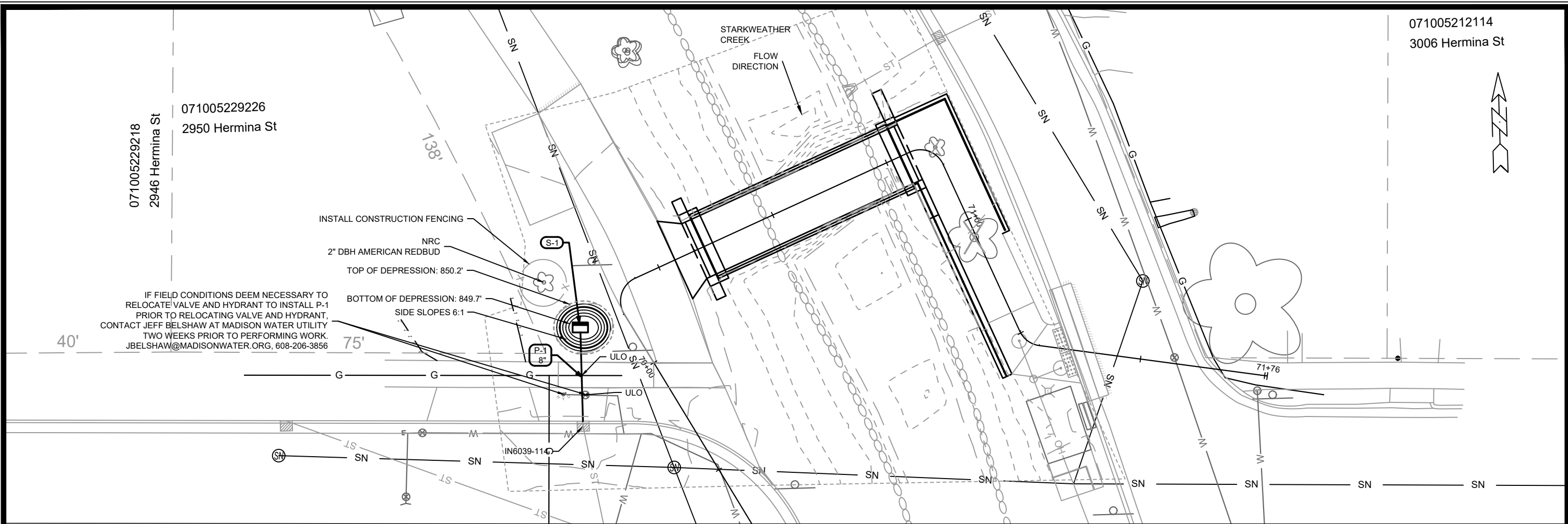
Scale: 1"=20'

BY

M:\DESIGN\Projects\13664\CAD\Sewers\13664SWR-ErosionControl.dwg



071005229218	2946 Hermina St	071005229226	2950 Hermina St	071005212106	3002 Hermina St	071005212114	3006 Hermina St
HERMINA STREET BRIDGE - PLAN & PROFILE							
HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK							
M:\DESIGN\Projects\13664\CAD\Streets\13664-EN-PnP.dwg							
13664							
P-1							
MADISON, WI							
CONTRACT NO: 8708							
REVISION							
DATE							
BY							
P-1							



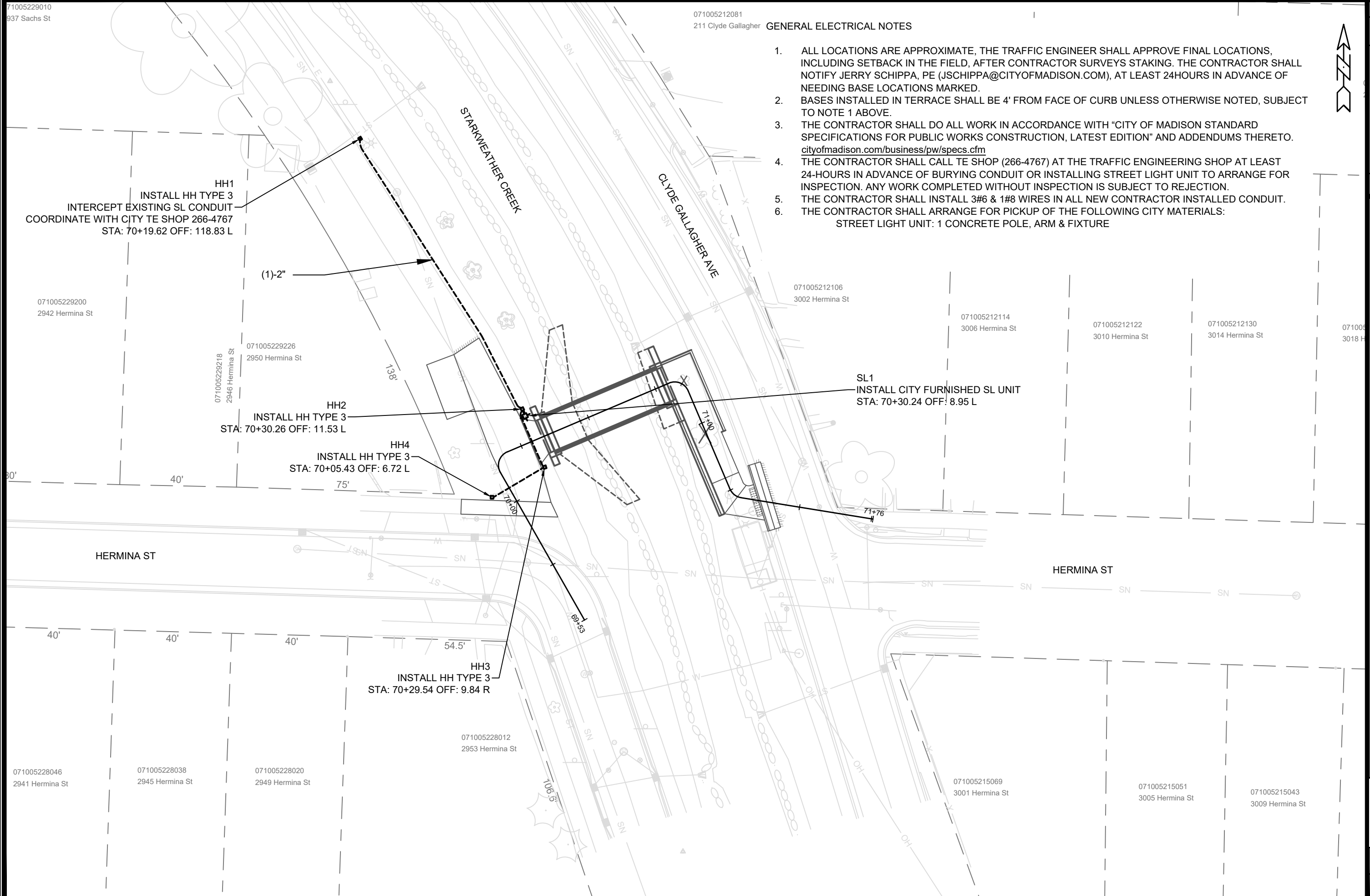
13664	8708	U-1
HERMINA STREET BRIDGE - UTILITY PLAN & PROFILE		
HERMINA STREET PEDESTRIAN-BIKE BRIDGE OVER STARKWEATHER CREEK, MADISON, WI		
M:\DESIGN\Projects\13664\CAD\Sewers\13664 SWR-Draft\PipeDrain_largerRG.dwg		
13664		
U-1		

71005229010
937 Sachs St

071005212081
211 Clyde Gallagher

GENERAL ELECTRICAL NOTES

1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK IN THE FIELD, AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA, PE (JSCHIPPA@CITYOFMADISON.COM), AT LEAST 24HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.
2. BASES INSTALLED IN TERRACE SHALL BE 4' FROM FACE OF CURB UNLESS OTHERWISE NOTED, SUBJECT TO NOTE 1 ABOVE.
3. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION" AND ADDENDUMS THERETO. cityofmadison.com/business/pw/specs.cfm
4. THE CONTRACTOR SHALL CALL TE SHOP (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF BURYING CONDUIT OR INSTALLING STREET LIGHT UNIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
5. THE CONTRACTOR SHALL INSTALL 3#6 & 1#8 WIRES IN ALL NEW CONTRACTOR INSTALLED CONDUIT.
6. THE CONTRACTOR SHALL ARRANGE FOR PICKUP OF THE FOLLOWING CITY MATERIALS:
STREET LIGHT UNIT: 1 CONCRETE POLE, ARM & FIXTURE



MARK	REVISION	DATE	BY
000-0	000-0	000-0	000-0
000-0	000-0	000-0	000-0
000-0	000-0	000-0	000-0
000-0	000-0	000-0	000-0
000-0	000-0	000-0	000-0

Designed By: GAP Date: 6/25/2026 11:40 AM Scale: 1" = 30'

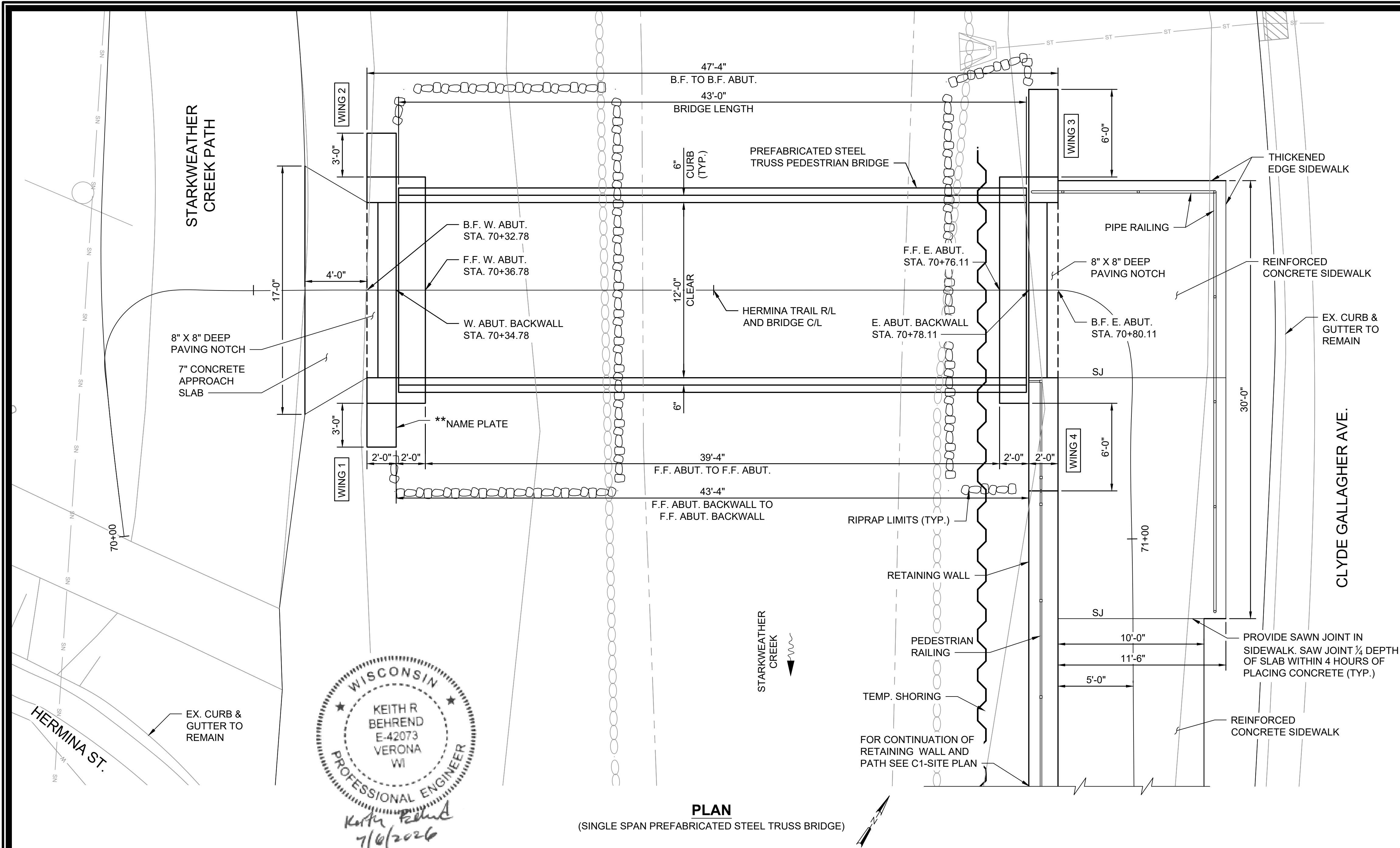
13664 E-1

13664	EEK	MADISON, WI	8708
CONTRACT NO:			

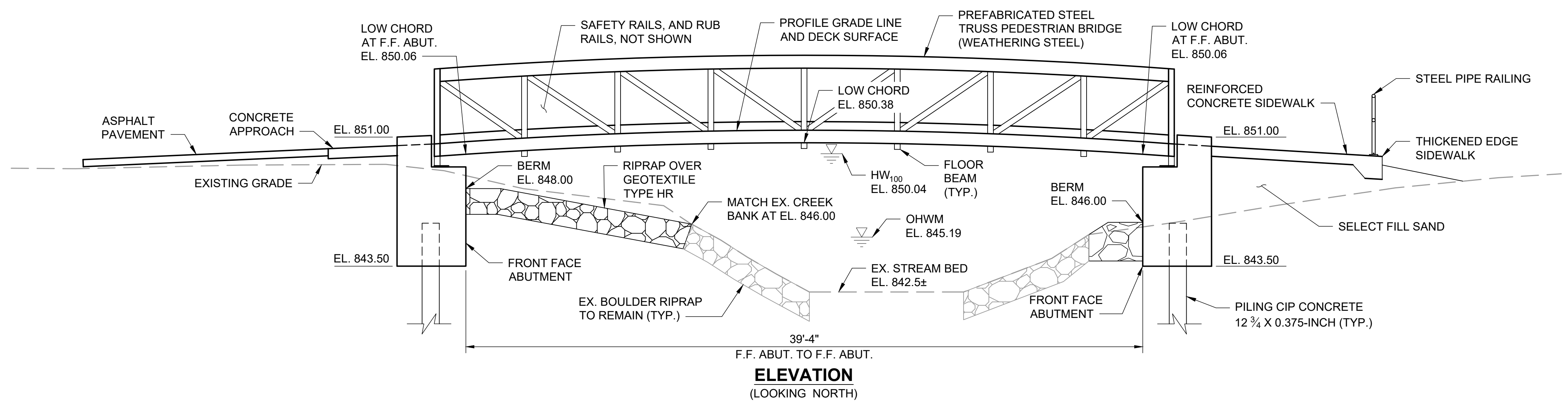
HERMINA STREET BRIDGE - ELECTRICAL PLAN
HERMINA ST: PED BIKE BRIDGE OVER STARKWATER
M:\DESIGN\Projects\13664\CAD\Traffic\13664TE-Electrical.dwg



13664
E-1



PLAN
(SINGLE SPAN PREFABRICATED STEEL TRUSS BRIDGE)



ELEVATION
(LOOKING NORTH)

DESIGN DATA

DESIGN LOADS:
90 PSF PEDESTRIAN LOAD
20,000 LB. VEHICLE LOAD (H-10)
35 PSF WIND LOAD (AS IF ENCLOSED)
20 PSF WIND UPLIFT
12 PSF STREAM FLOW PRESSURE
HORIZONTAL EARTH PRESSURE:
40 P.S.F. EQUIVALENT FLUID PRESSURE.
SURCHARGE PRESSURE = 2'-0" OF EARTH.
MATERIAL DESIGN PROPERTIES:
CONCRETE DECK $f'_c = 4,000$ psi
CONCRETE SUBSTRUCTURE $f'_c = 3,500$ psi
HIGH STRENGTH BAR
STEEL REINFORCEMENT $f_y = 60,000$ psi
HIGH STRENGTH STRUCTURAL STEEL
ASTM A847, ASTM A588, ASTM A606,
ASTM A709 OR ASTM A242 $f_y = 50,000$ psi
FOUNDATION DATA:
A LAYER OF PEAT IS PRESENT APPROXIMATELY 2' BELOW EXISTING GRADE AND 1'-6" THICK. THE PEAT LAYER SHALL BE REMOVED FROM BELOW THE EAST ABUTMENT AND RETAINING WALL PRIOR TO PLACEMENT OF SURCHARGE FILL. THE CITY'S GEOTECHNICAL ENGINEER. (CGC), WILL EVALUATE THE SUBGRADE PRIOR TO PLACEMENT OF SURCHARGE FILL. SETTLEMENT OF SURCHARGE SHALL BE MONITORED ACCORDING TO SPECIAL PROVISIONS AND SURCHARGE FILL DETAIL ON SHEET S2.
ABUTMENTS TO BE SUPPORTED ON PILING CAST-IN-PLACE CONCRETE 12 3/4-INCH, WITH 0.375-INCH MINIMUM SHELL THICKNESS, DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 60 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. PROVIDE 1 1/4-INCH MINIMUM THICKNESS END PLATES WELDED TO BASES OF PILES. ESTIMATED 40' LONG AT WEST ABUTMENT AND 55' LONG AT EAST ABUTMENT.
*** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED BRIDGE REACTIONS

LOAD TYPE	P (LBS.)	H (LBS.)	L (LBS.)
DEAD LOAD	14,325		
UNIFORM LIVE LOAD, 90 psf	11,610		
VEHICLE LIVE LOAD	10,000		
WIND UPLIFT, 20 psf WINDWARD/LEEWARD	-4,615 -1,605		
WIND	±635	3,450	
SEISMIC			
THERMAL			5,015
STREAM		500	

P = VERTICAL LOAD AT EACH BASE PLATE (4 PER BRIDGE)
H = HORIZONTAL LOAD AT EACH SPAN END (2 PER BRIDGE)
L = LONGITUDINAL LOAD AT FIXED BEARING (4 PER BRIDGE)
NOTES:
1. VALUES IN THIS TABLE ARE ESTIMATES. ACTUAL VALUES SHALL BE PROVIDED BY PREFABRICATED BRIDGE MANUFACTURER.
2. "+" INDICATES DOWNWARD LOAD.
3. "-" INDICATES UPWARD LOAD.
ESTIMATED BRIDGE LIFTING WEIGHT = 10,000 LBS (TO BE VERIFIED BY BRIDGE MANUFACTURER).

LEGEND

* DIMENSION OR STATION TO BE VERIFIED BY BRIDGE MANUFACTURER.
** PROVIDE STRUCTURE NUMBER NAME PLATE PER WISDOT STANDARD SPECIFICATION SECTION 506. COST IS INCLUDED WITH THE BID ITEM, "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE."

LIST OF STRUCTURE DRAWINGS

- S1 BRIDGE PLAN & ELEVATION (B-13-948)
- S2 CROSS SECTION, NOTES & DETAILS
- S3 WEST ABUTMENT PLAN
- S4 EAST ABUTMENT PLAN
- S5 ABUTMENT DETAILS
- S6 STRUCTURE DETAILS
- S7 STEEL RAILING DETAILS
- C1 SITE PLAN

HYDRAULIC DATA

HW₁₀₀ ELEV. 850.04
Q₁₀₀ 562 CFS
V₁₀₀ 2.91 FPS

DESIGN CONTACT

KEITH BEHREND PH: (608) 251-4843

BRIDGE PLAN & ELEVATION (B-13-948)
HERMINA ST: PED. BRIDGE OVER STARKWEATHER CREEK
S:\MAD\1000-1099\1020128\Drawings\CAD\ACAD\Hermina Street Bridge\Bridge Plans\Sheets

CITY OF MADISON
WISCONSIN

13664
S1

MADISON, WI
CONTRACT NO.: 8708

DATE: 1' = 40'
REVISION
Designd By: TUE Date: 6/19/2026 4:37 PM



SELECT FILL PAY LIMITS. BACKFILL BEYOND SELECT FILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE RODENT SHIELD DETAIL ON SHEET S3.

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL IN BRIDGE DECK AND APPROACH SLABS SHALL BE EPOXY COATED.

THE FIRST ONE OR TWO DIGITS OF THE REINFORCING BAR MARK SIGNIFY THE BAR SIZE.

THE EMBANKMENTS ADJACENT TO THE BRIDGE SHALL BE COVERED WITH MEDIUM RIPRAP AND RIPRAP FILTER FABRIC TYPE HR TO THE EXTENT SHOWN ON THE PLAN OR AS REQUESTED BY THE ENGINEER.

TREAT TIMBER RUB RAIL LUMBER IN ACCORDANCE WITH AWPAC USE CATEGORY UC3B. NOMINAL SIZE TIMBER RAILING MATERIAL SHALL BE SURFACED TO S4S.

AT THE BACK FACE OF ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH SELECT FILL SAND.

NUMBER OF TRUSS PANELS TO BE DETERMINED BY BRIDGE MANUFACTURER.

BEVEL ALL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS SHOWN OTHERWISE.

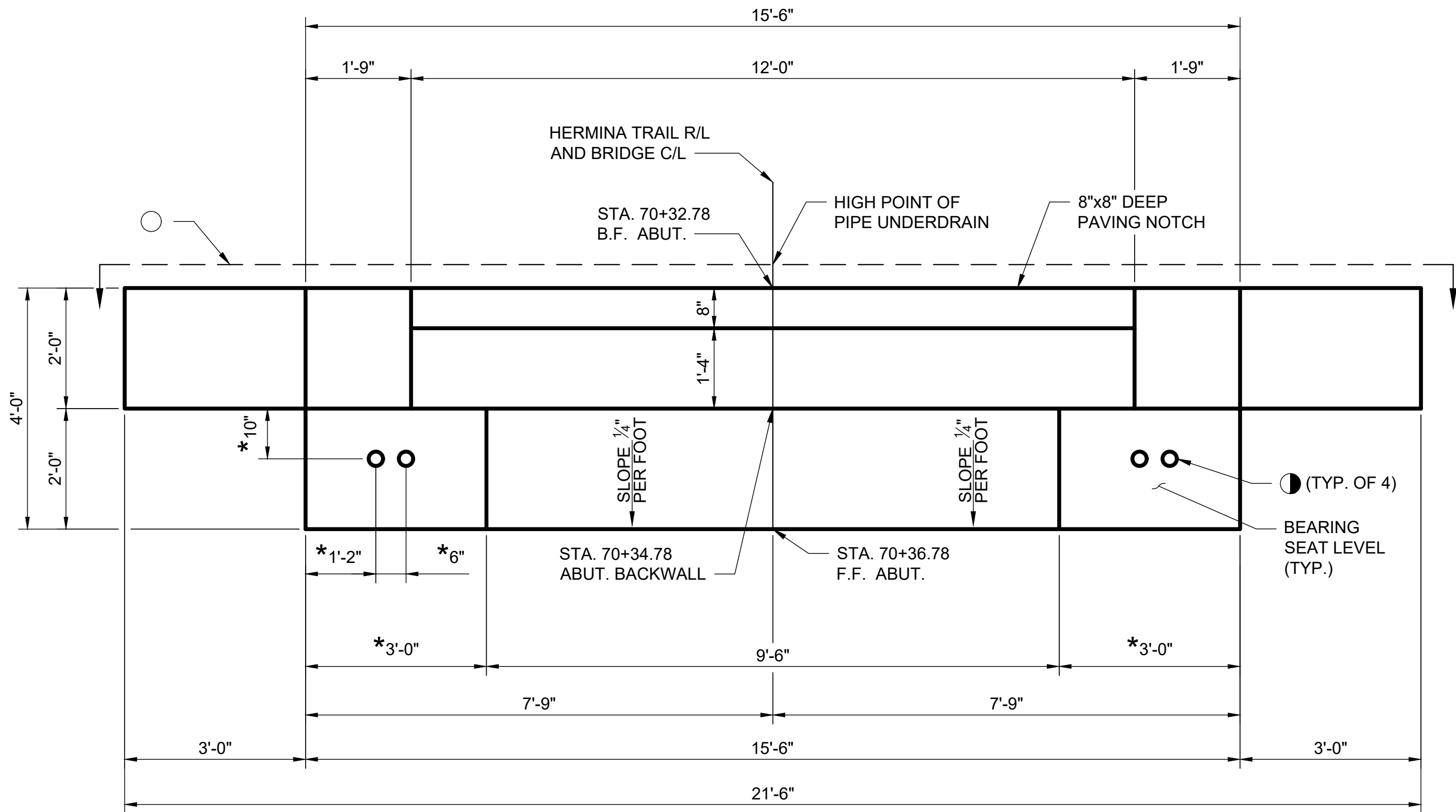
THE SUPERSTRUCTURE SHALL BE ANCHORED TO THE FOUNDATIONS IN A MANNER TO:

- ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE.
- PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE C. OF THE PATH.

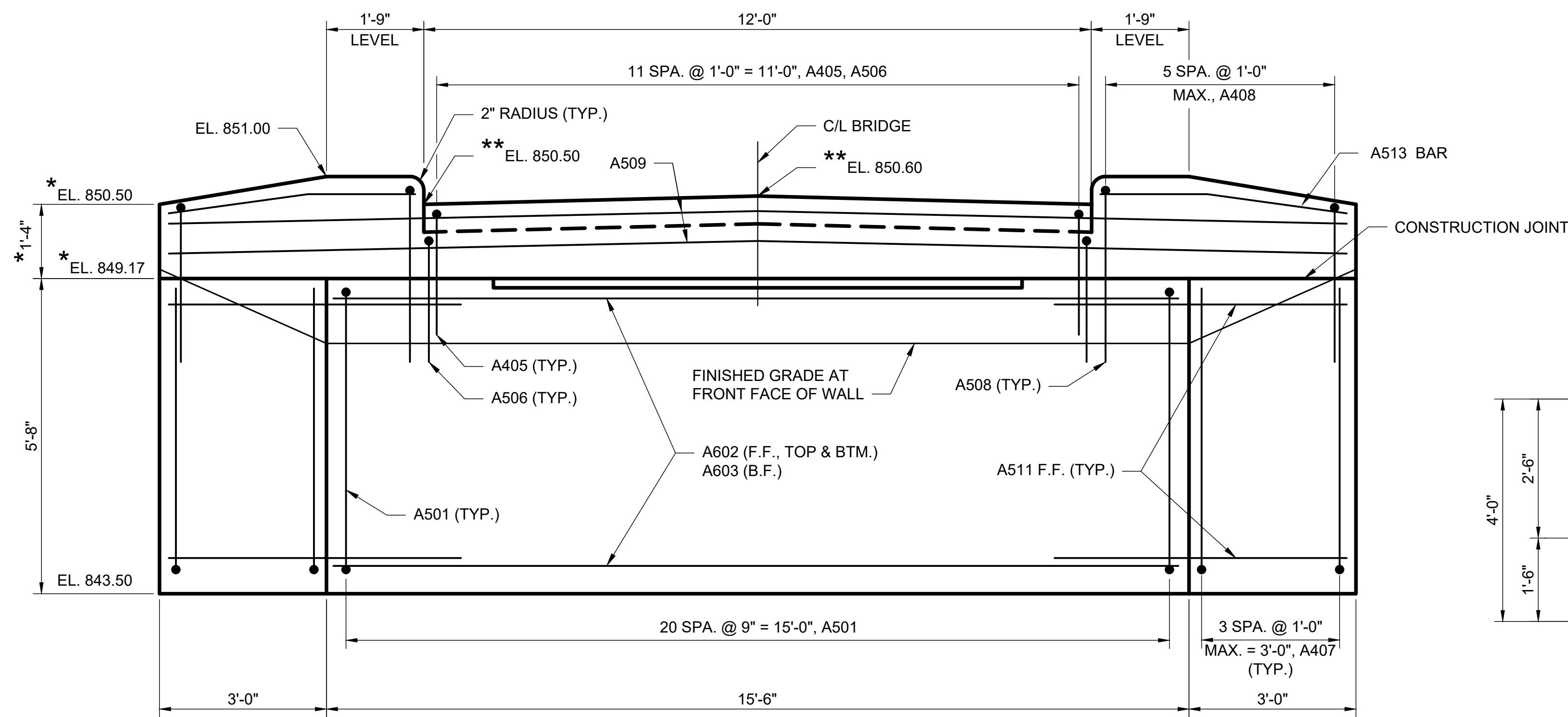


BID ITEM NUMBER*	REFERENCE WISDOT BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL
90101	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-13-948	EACH	1
90102	502.0100	CONCRETE MASONRY BRIDGES	CY	64
90103	502.3101	EXPANSION DEVICE	LF	26
90104	502.3200	PROTECTIVE SURFACE TREATMENT	SY	165
90105	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	4880
90106	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	730
90107	511.1100	TEMPORARY SHORING	LS	1
90108	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9
90109	550.2126	PIILING CIP CONCRETE 12 3/4 X 0.375-INCH	LF	380
90110	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	137
90111	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	48
90112	506.8006.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-948 LRFD	EACH	1
90113	---	STEEL PEDESTRIAN RAILING	LF	44
90114	---	STEEL PIPE RAILING	LF	42
90115	---	CONCRETE PAVEMENT APPROACH SLAB	LS	1
90116	---	REINFORCED CONCRETE SIDEWALK	LS	1
90117	---	CRUSHED STONE	TON	16
20208	---	SELECT FILL SAND	CY	179
20247	---	MEDIUM RIPRAP - GLACIAL FIELD STONE	TON	39
20256	---	RIPRAP FILTER FABRIC, TYPE HR	SY	96

*REFER TO CITY OF MADISON STANDARD SPECIFICATIONS FOR BID ITEMS STARTING WITH 20###. REFER TO SPECIAL PROVISIONS FOR BID ITEMS STARTING WITH 90###.

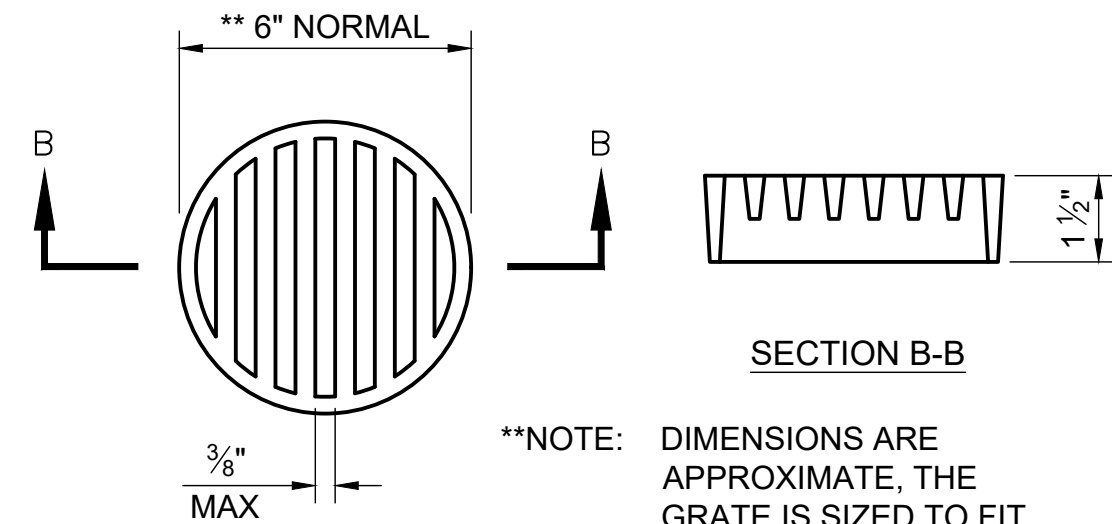


WEST ABUTMENT PLAN

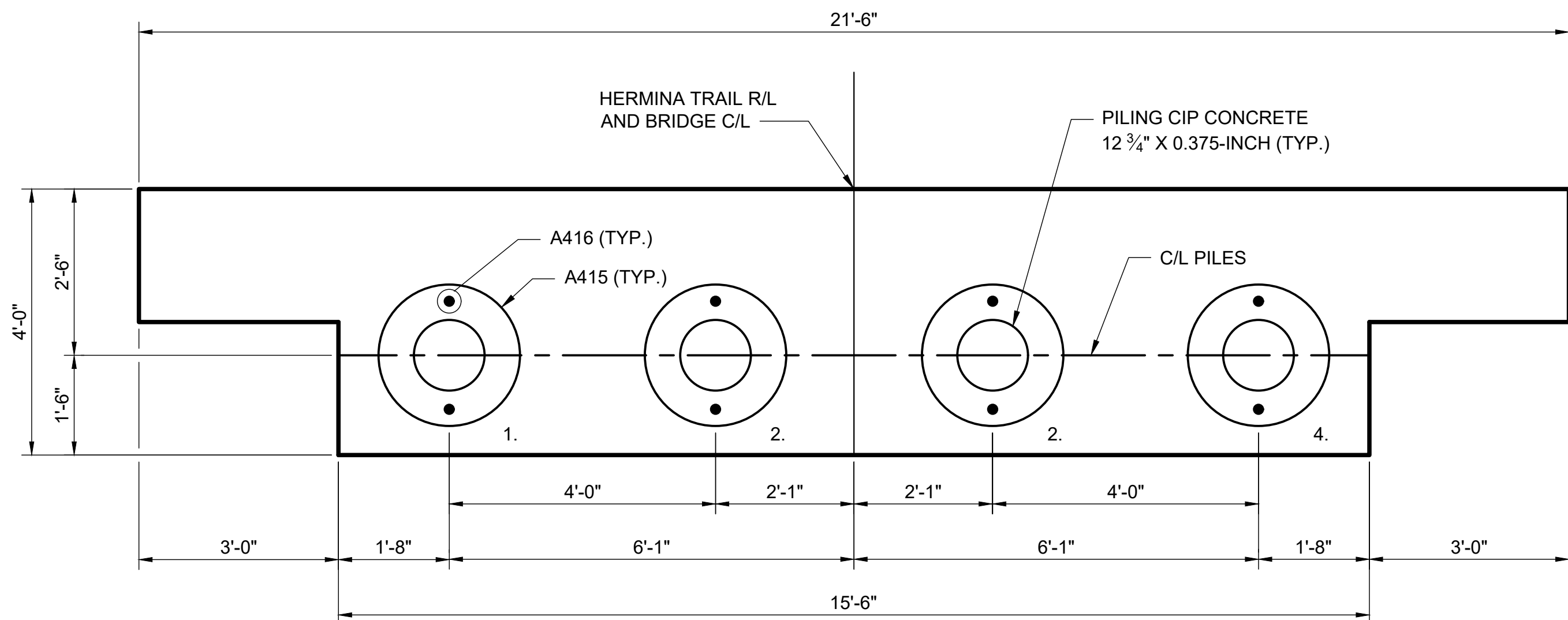


WEST ABUTMENT ELEVATION

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10X1-INCH STAINLESS STEEL SHEET METAL SCREWS. ORIENT SHIELD SO SLOTS ARE VERTICAL.



RODENT SHIELD



WEST ABUTMENT FOUNDATION PLAN

GENERAL NOTES

SEE SHEET S5 FOR REINFORCING DETAILS.

LEGEND

- * DIMENSION OR ELEVATION TO BE VERIFIED OR SUPPLIED BY BRIDGE MANUFACTURER.
- ** ELEVATION GIVEN AT F.F. OF ABUTMENT BACKWALL.
- PIPE UNDERDRAIN 6" WRAPPED. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF UNDERDRAIN. SEE RODENT SHIELD DETAIL ON THIS SHEET.
- ASTM F1554 GRADE 36 GALVANIZED ANCHOR BOLT WITH (2) NUTS AND (1) WASHER EACH END. EMBED INTO CONCRETE 2'-0". BOLT DIAMETER AND PROJECTION HEIGHT BY BRIDGE MANUFACTURER. COST IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.

WEST ABUTMENT PLAN

HERMINA ST. PED. BRIDGE OVER STARKWEATHER CREEK

MADISON, WI

S:\MAD\1000-1099\1020128\Drawings\CAD\ACAD\Hermina Street Bridge\Bridge Plans\Sheets

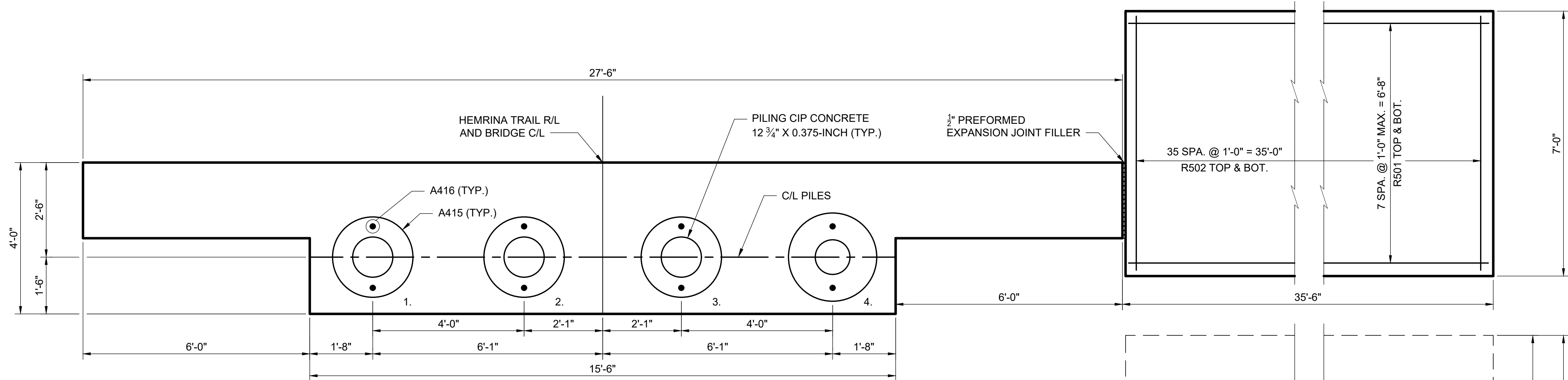
CONTRACT NO:

8708

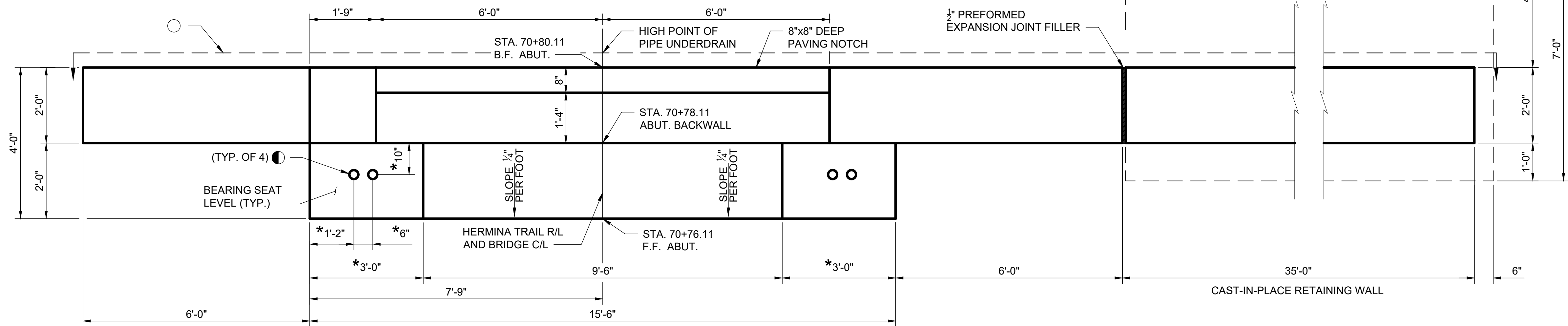


13664

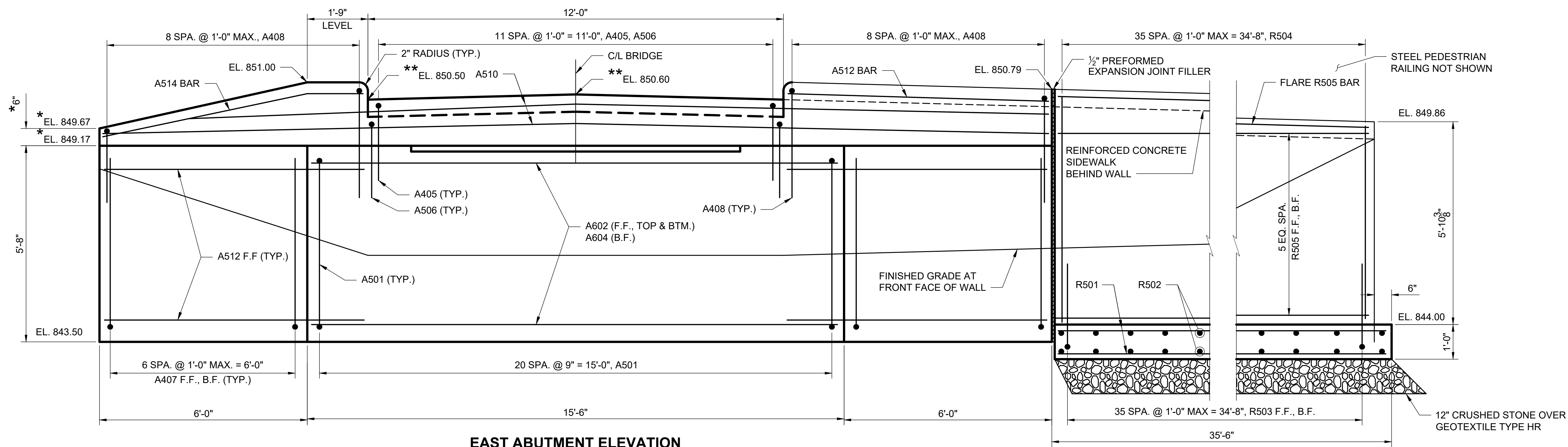
S3



EAST ABUTMENT FOUNDATION PLAN



EAST ABUTMENT PLAN



EAST ABUTMENT ELEVATION

GENERAL NOTES

SEE SHEET S5 FOR REINFORCING DETAILS.

LEGEND

- * DIMENSION OR ELEVATION TO BE VERIFIED OR SUPPLIED BY BRIDGE MANUFACTURER.
- ** ELEVATION GIVEN AT F.F. OF ABUTMENT BACKWALL.
- PIPE UNDERDRAIN 6" WRAPPED. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF UNDERDRAIN. SEE RODENT SHIELD DETAIL ON SHEET S3.
- ASTM F1554 GRADE 36 GALVANIZED ANCHOR BOLT WITH (2) NUTS AND (1) WASHER EACH END. EMBED INTO CONCRETE 2'-0". BOLT DIAMETER AND PROJECTION HEIGHT BY BRIDGE MANUFACTURER. COST IS INCIDENTAL TO "CONCRETE MASONRY BRIDGES" BID ITEM.

EAST ABUTMENT PLAN

HERMINA ST. PED. BRIDGE OVER STARKWEATHER CREEK

MADISON, WI

S:\MAD\1000-1099\1020\128Drawings\CAD\ACAD\Hermina Street Bridge\Bridge Plans\Sheets

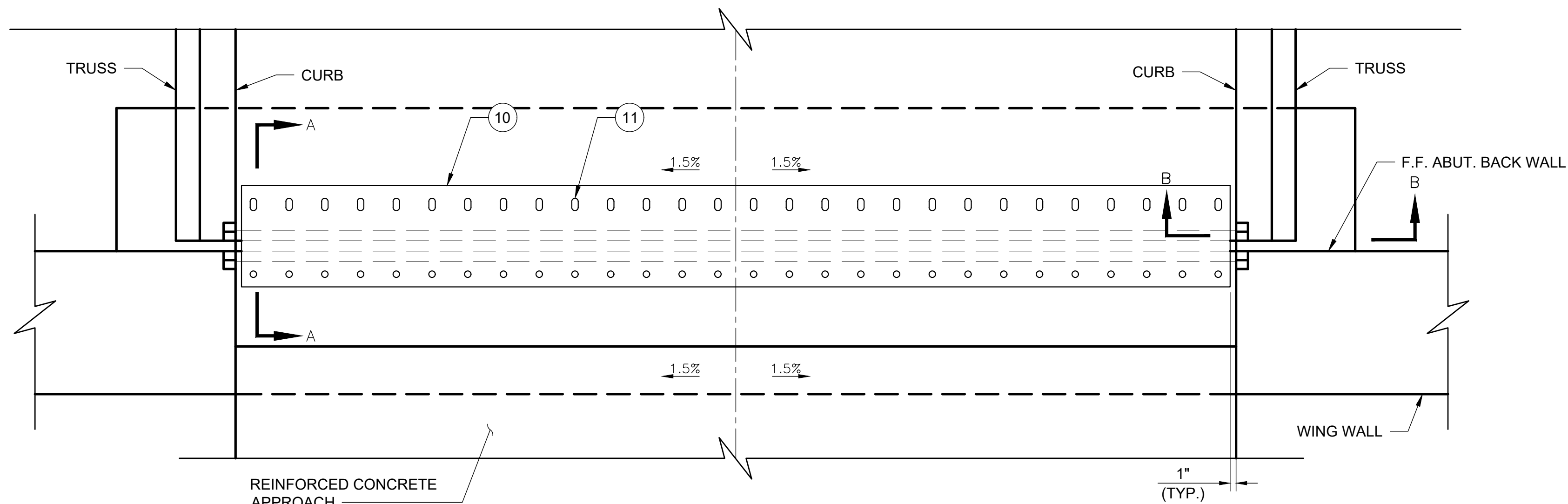
CONTRACT NO.:

8708

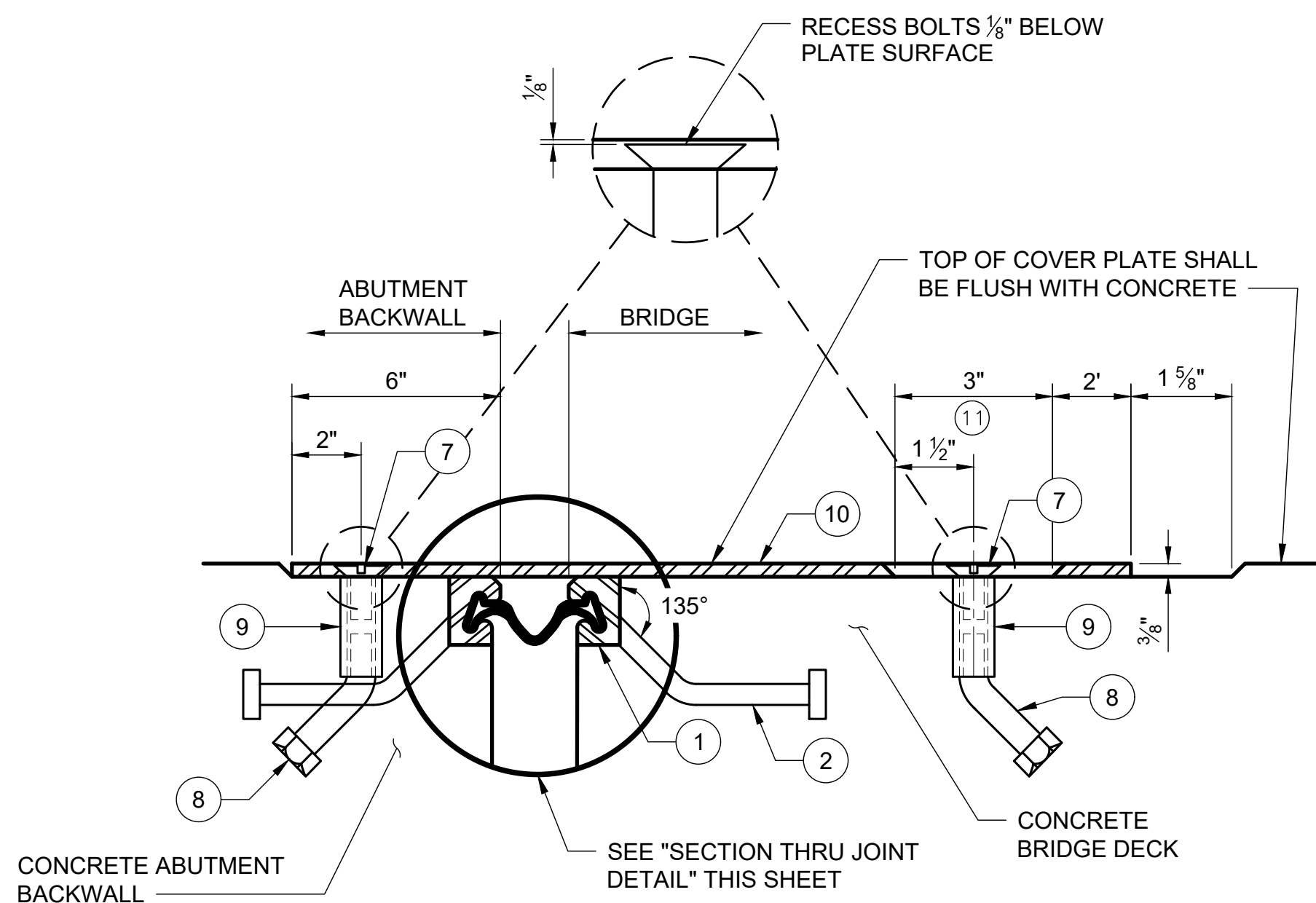


13664

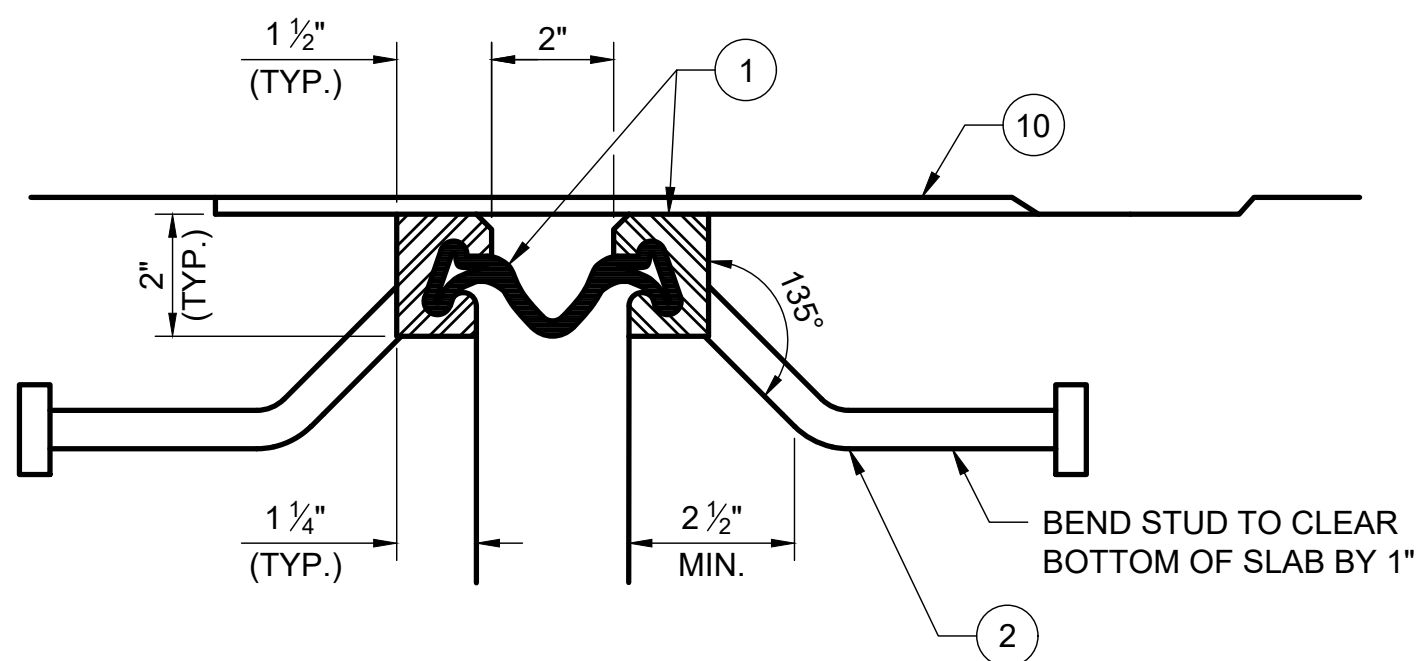
S4



TYPICAL PLAN



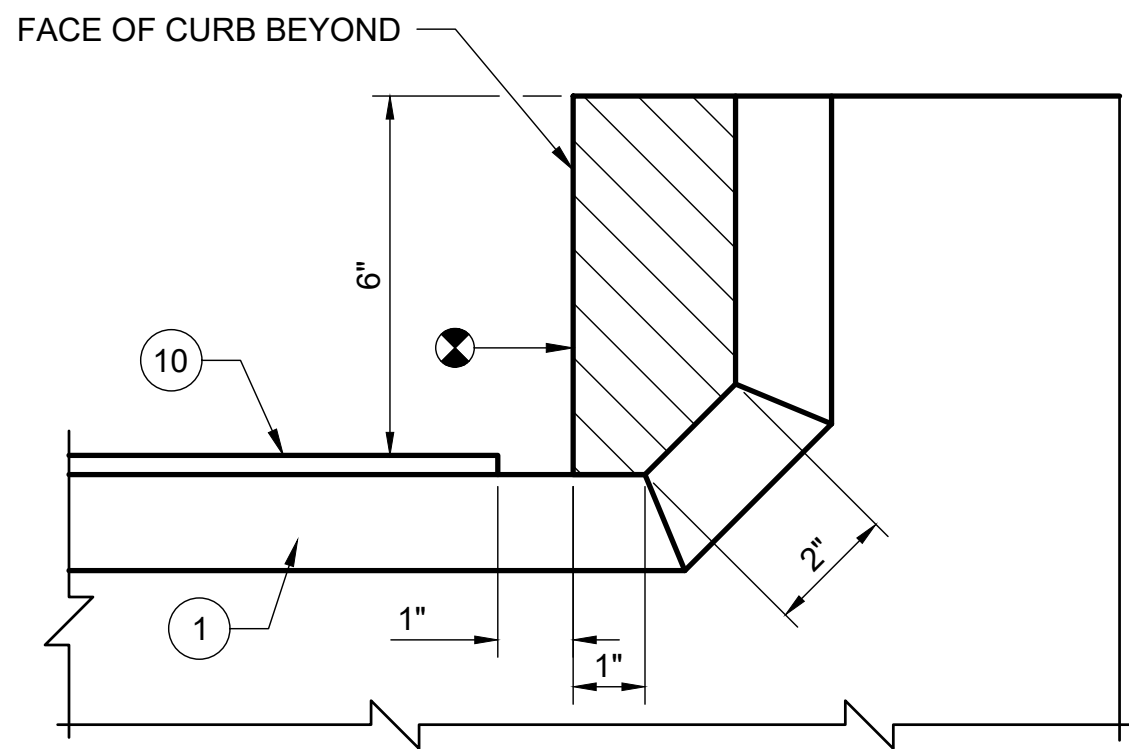
SECTION A-A
THRU JOINT



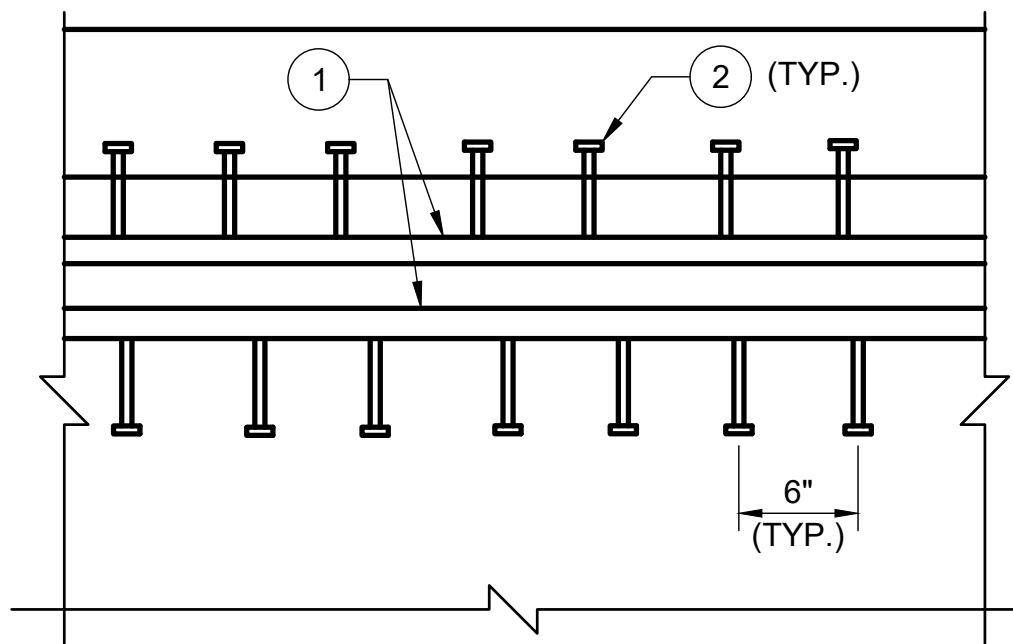
SECTION THRU JOINT DETAIL

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

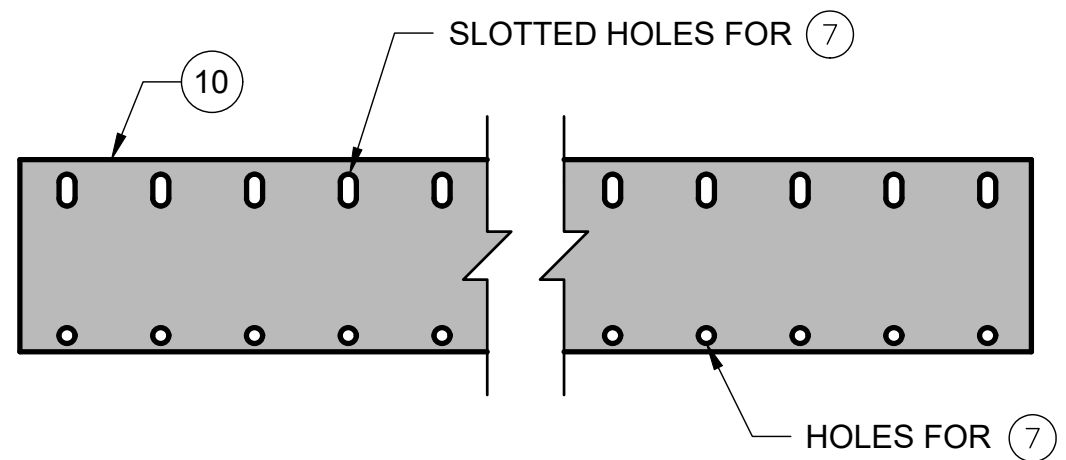
STRIP SEAL EXPANSION JOINT AND COVER PLATE DETAILS



SECTION B-B
THRU JOINT AT CURB



PART PLAN
(COVER PLATES NOT SHOWN)



PLAN OF COVER PLATE WITH
SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP
WALKING SURFACE IN SHADED AREA.

LEGEND

- NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.
- STUDS $\frac{5}{8}$ " DIA. x 6 $\frac{3}{8}$ " LONG AT 6" CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- $\frac{3}{4}$ " DIA. x 1 $\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS $\frac{1}{8}$ " BELOW PLATE SURFACE.
- $\frac{3}{4}$ " DIA. x 4" GALVANIZED HEX. HEAD BOLT. AT ABUTMENT BACKWALL, BEND 45°. AT BRIDGE DECK, BEND TO CLEAR BOTTOM OF SLAB BY 1".
- $\frac{3}{4}$ " DIA. x 2 $\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- GALVANIZED PLATE $\frac{3}{8}$ " x 1'-4" x 13'-10", WITH HOLES FOR NO. 7.
- 1" x 3" SLOTTED COUNTERSUNK HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

GENERAL NOTES

NO FIELD SPlice PERMITTED IN STEEL EXTRUSIONS. NO SPlicing PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. NO. 6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE SHALL BE APPLIED PRIOR TO GALVANIZING.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LINEAR FOOT UNIT PRICE BID FOR "EXPANSION DEVICES".

PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE OF COVER PLATE. SEE DETAIL THIS SHEET.

JOINT MANUFACTURER SHALL PROVIDE JOINT DETAILS TO THE STEEL BRIDGE DESIGNER/FABRICATOR.

STRUCTURE DETAILS

HERMINA ST: PED. BRIDGE OVER STARKWEATHER CREEK

MADISON, WI

S:\MAD\1000-1099\1020\128Drawings\CAD\ACAD\Hermina Street Bridge\Bridge Plans\Sheets

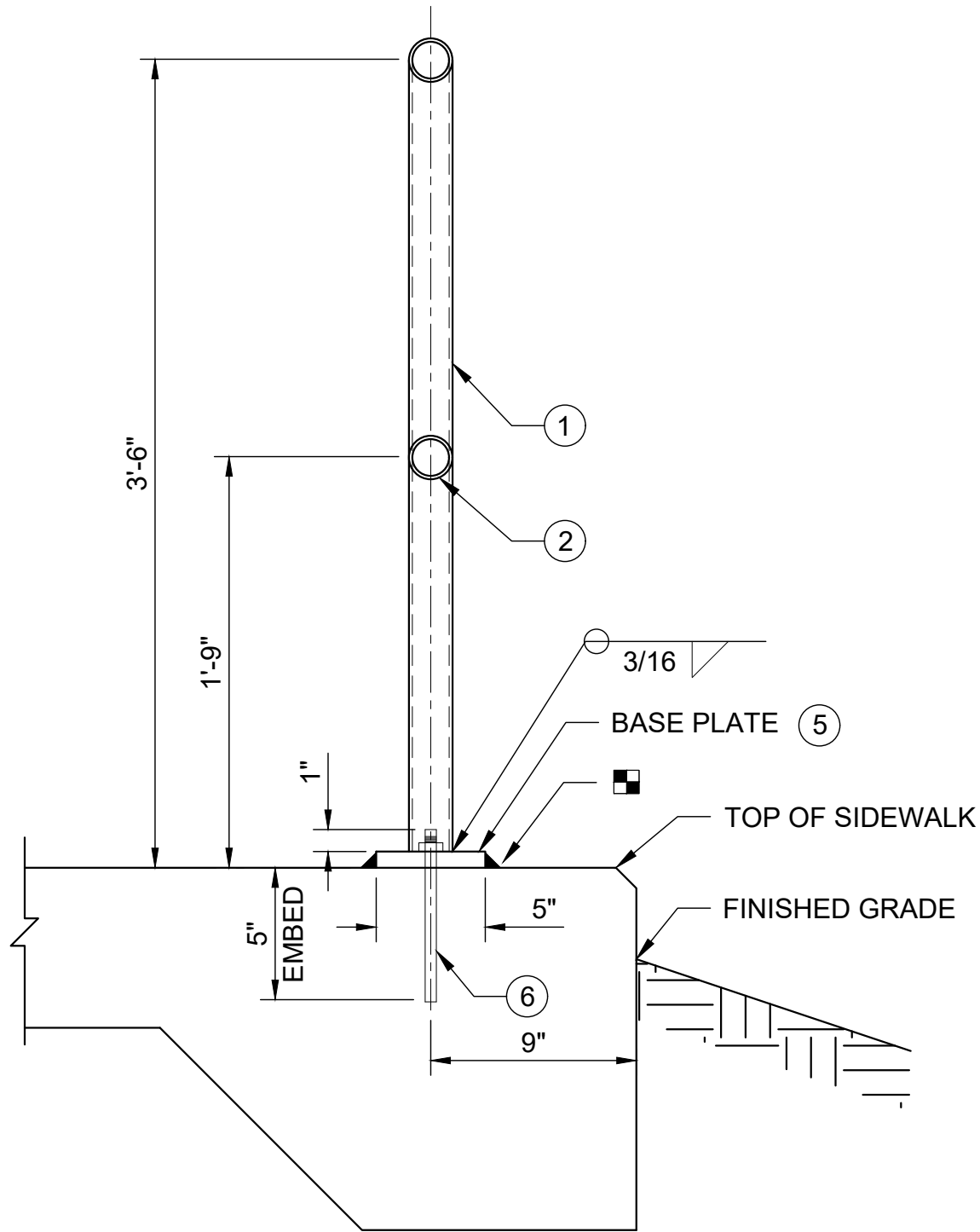
CONTRACT NO: 8708



13664

S6

- ① 2"Ø SCH. 40 GALVANIZED STEEL PIPE FOR POSTS: CUT BOTTOM OF POST AS REQUIRED TO SET POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
- ② 2"Ø SCH. 40 GALVANIZED STEEL PIPE FOR RAILS: WELD TO NO. 1.
- ③ 1 ½" Ø SCH. 40 PIPE SLEEVE FOR NO. 2. PROVIDE "SLIDING FIT".
- ④ 1 ½" Ø SCH. 40 PIPE SLEEVE X 1'-10" LONG FOR NO. 2. PROVIDE ½" Ø SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 2. PROVIDE ¾" Ø X ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.
- ⑤ PLATE ¾" X 5" 8", WITH ⅝" Ø HOLE FOR ANCHOR BOLTS NO. 6. WELD TO NO. 1. OR PIPE SLEEVE AS SHOWN.
- ⑥ ⅝" DIA. X 9" LONG 316 STAINLESS STEEL ADHESIVE ANCHORS WITH NUT AND WASHERS OF SAME ALLOY GROUP. EMBED MIN. 7".



6'-0" MAX. RAIL
POST SPA. (TYP.)

(END POST) ①

②

TYP.

BID ITEM SHALL BE "STEEL PIPE RAILING", WHICH INCLUDES ALL ITEMS SHOWN.

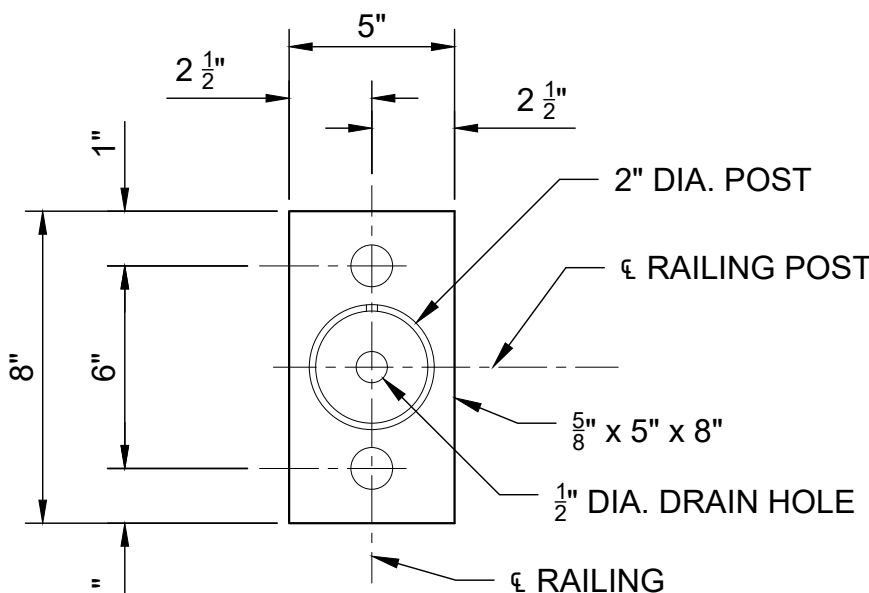
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 6) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED. THE RAILING SHALL BE PAINTED AMS STANDARD COLOR NO. 27038 BLACK.

DRILL DRAIN HOLES PRIOR TO GALVANIZING.

ALL STEEL PLATE MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.



FIELD ERECTION JOINTS SHALL BE PLACED AT 1/6 POINTS (WITHIN $\pm 4"$) IN BETWEEN RAIL POSTS

SYMMETRICAL ABOUT ϵ FIELD ERECTION JOINT

11'

8'

2'

1"

1/2"

1/2" $\varnothing$ SURFACE WELD *

3/8" $\varnothing$ x 1/2" WELDING STUDS (TYP.)

1

2

3

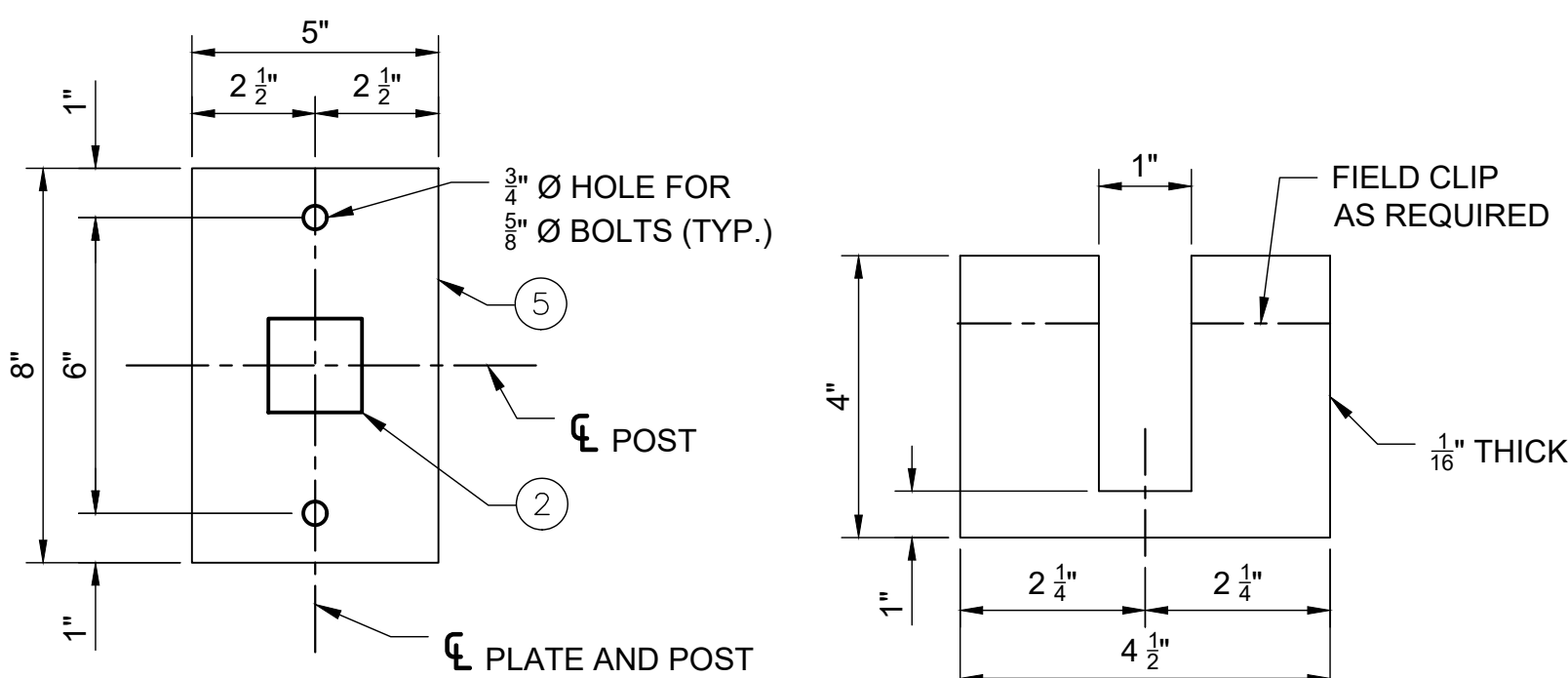
4

C

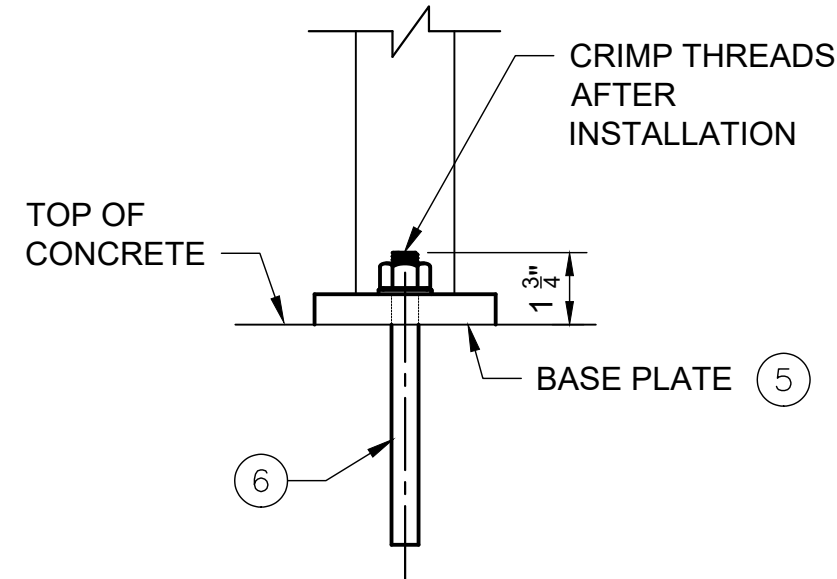
C

*MIN. $\frac{5}{8}$ " FLAT SURFACE DIA. PUNCHINGS
OR STUDS MAY BE USED AS AN ALTERNATE

- ① PROVIDE 4" MAX. GAP BETWEEN BRIDGE TRUSS AND ABUTMENT RAILING END
- ② HSS 2"x2"x $\frac{1}{4}$ " STEEL POST AT 8'-0" MAX. SPA.
- ③ HSS 8"x2"x $\frac{1}{4}$ " STEEL TOP RAIL. WELD TO NO. 2.
- ④ HSS 1 $\frac{1}{4}$ "x1 $\frac{1}{4}$ "x $\frac{3}{16}$ " STEEL INTERMEDIATE RAIL. WELD TO NO. 2. SPACE EVENLY AND ALIGN WITH PREFABRICATED BRIDGE INTERMEDIATE RAILS. MATCH NUMBER OF BRIDGE INTERMEDIATE RAILS.
- ⑤ PLATE $\frac{3}{4}$ "x5"x8" WITH $\frac{3}{4}$ "Ø HOLES FOR ANCHOR BOLTS NO. 7. WELD TO NO. 2 AS SHOWN.
- ⑥ $\frac{5}{8}$ " DIA. x 9" LONG 316 STAINLESS STEEL ADHESIVE ANCHORS WITH NUT AND WASHERS OF SAME ALLOY GROUP. EMBED MIN. 7".



POST SHIM DETAIL



BID ITEM SHALL BE "STEEL PEDESTRIAN RAILING" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN AS WELL AS CAULKING AND PAINTING.

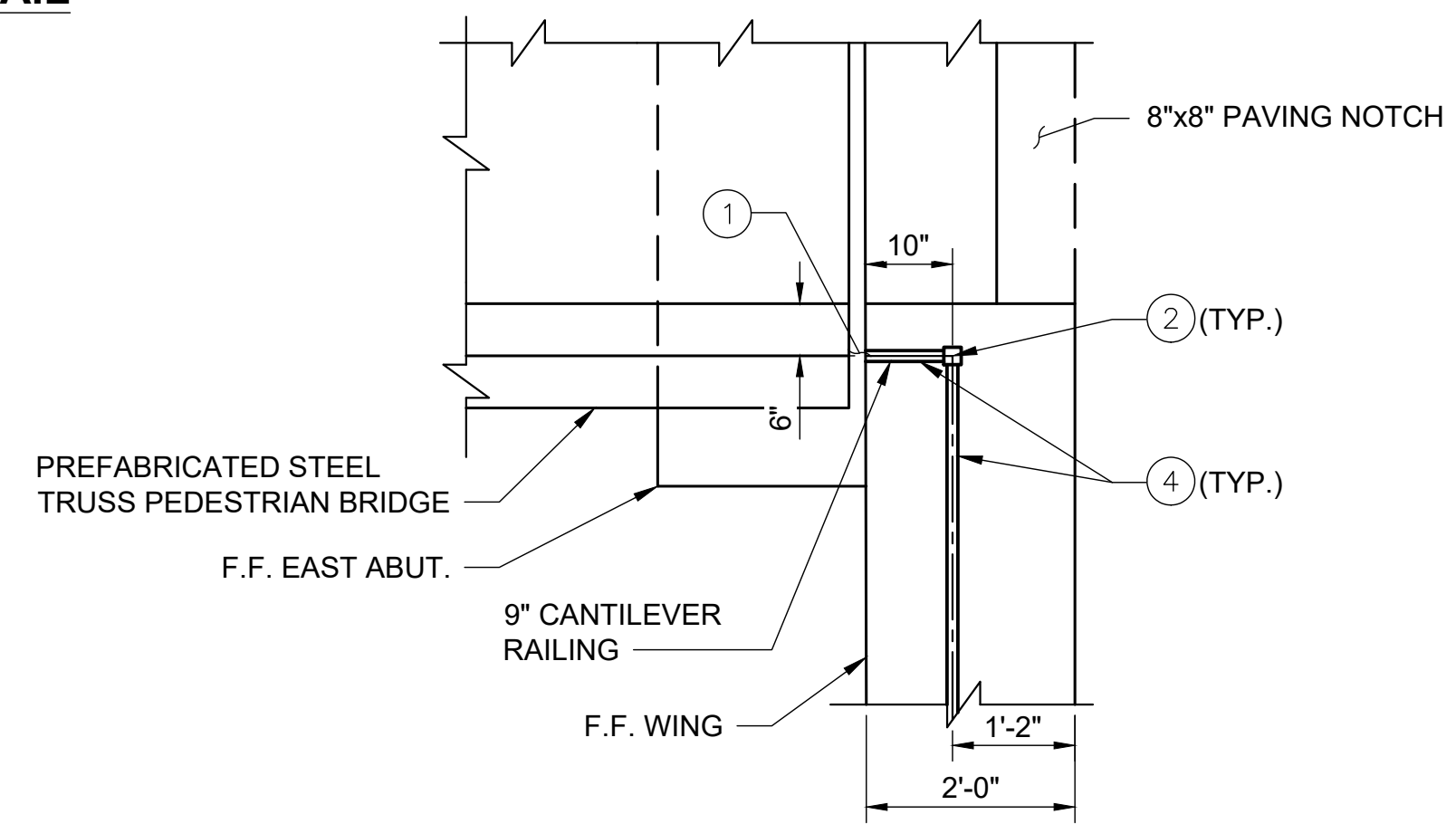
ALL MATERIAL (EXCEPT NO. 6) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED. THE RAILING SHALL BE PAINTED AMS STANDARD COLOR NO. 27038 BLACK.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

SPACING OF SAFETY RAIL, RUB RAIL, AND BOTTOM RAIL SHALL PRODUCE MAXIMUM OPENINGS OF LESS THAN 4".

NO. 2,3,4 AND 5 STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B. NO. 6 SHALL CONFORM TO ASTM A709 GRADE 36.

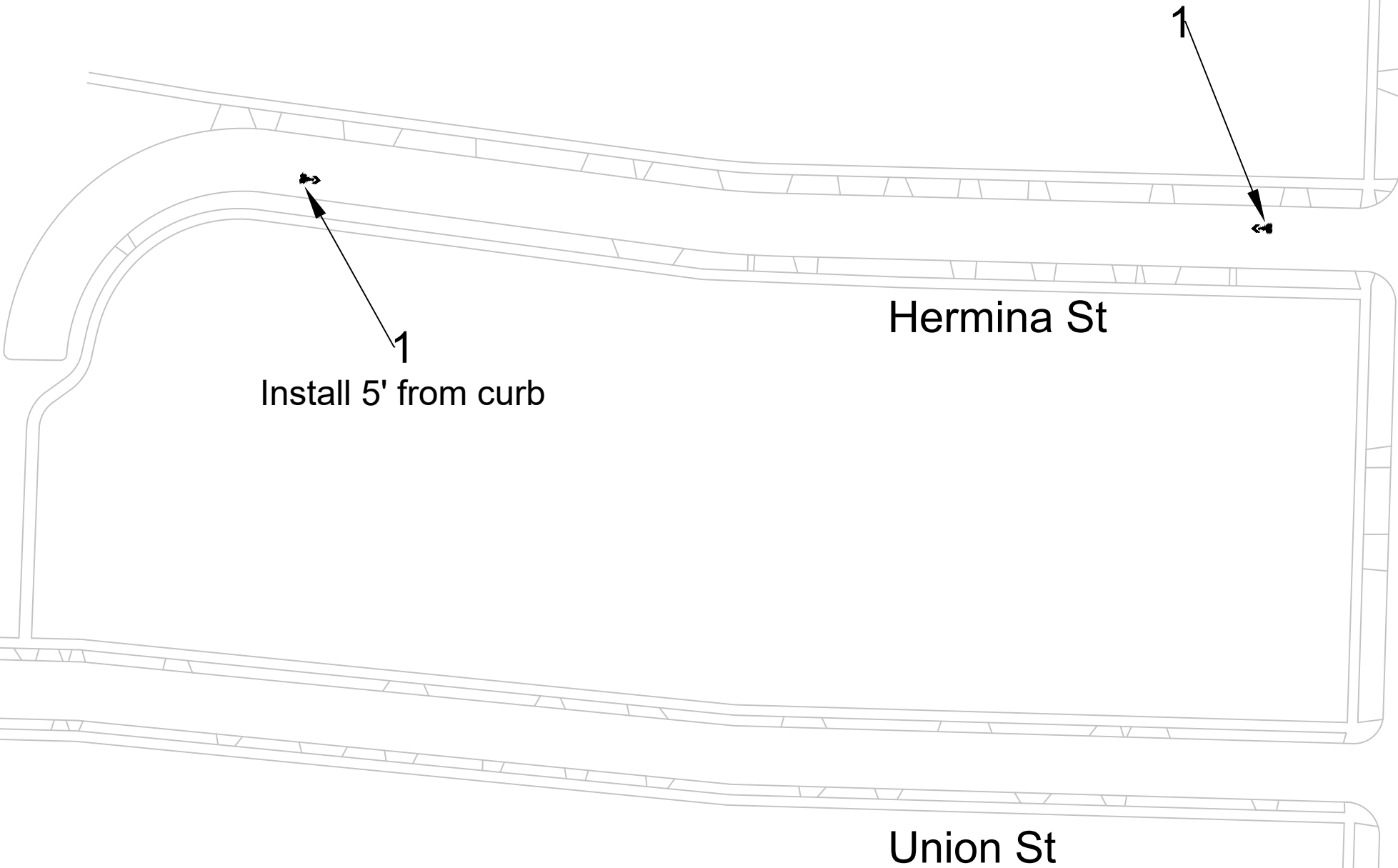


RAILING ELEVATION

Callout	Description
1	Pavement Marking Epoxy, Symbol, Bike Sharrow

Note: Install Bike Sharrow 13' from edge of curb unless otherwise noted

Contact Jeremy Nash with any questions regarding this plan
jnash@cityofmadison.com
608-266-6585



Matchline 1

13664

PM-1

HERMINA ST BRIDGE - PAVEMENT MARKING PLAN

HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK

M:\DESIGN\Projects\13664\CAD\Traffic\13664TE-Pavement Marking.dwg

13664

PM-1

13664

MADISON, WI

8708

CONTRACT NO:

8708

DATE

6/25/2026 11:37 AM

BY

PM-1

Matchline 1

N Marquette St

Sachs St

Starkweather Creek

Matchline 2

Callout	Description
1	Pavement Marking Epoxy, Symbol, Bike Sharrow

Note: Install Bike Sharrow 13' from edge of curb unless otherwise noted

Contact Jeremy Nash with any questions regarding this plan
jnash@cityofmadison.com
608-266-6585

1
Install 5' from curb

Hermina St

Union St



13664
PM-2

HERMINA ST BRIDGE - PAVEMENT MARKING PLAN

HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK

MADISON, WI

M:\DESIGN\Projects\13664\CAD\Traffic\13664\TE-Pavement Marking.dwg

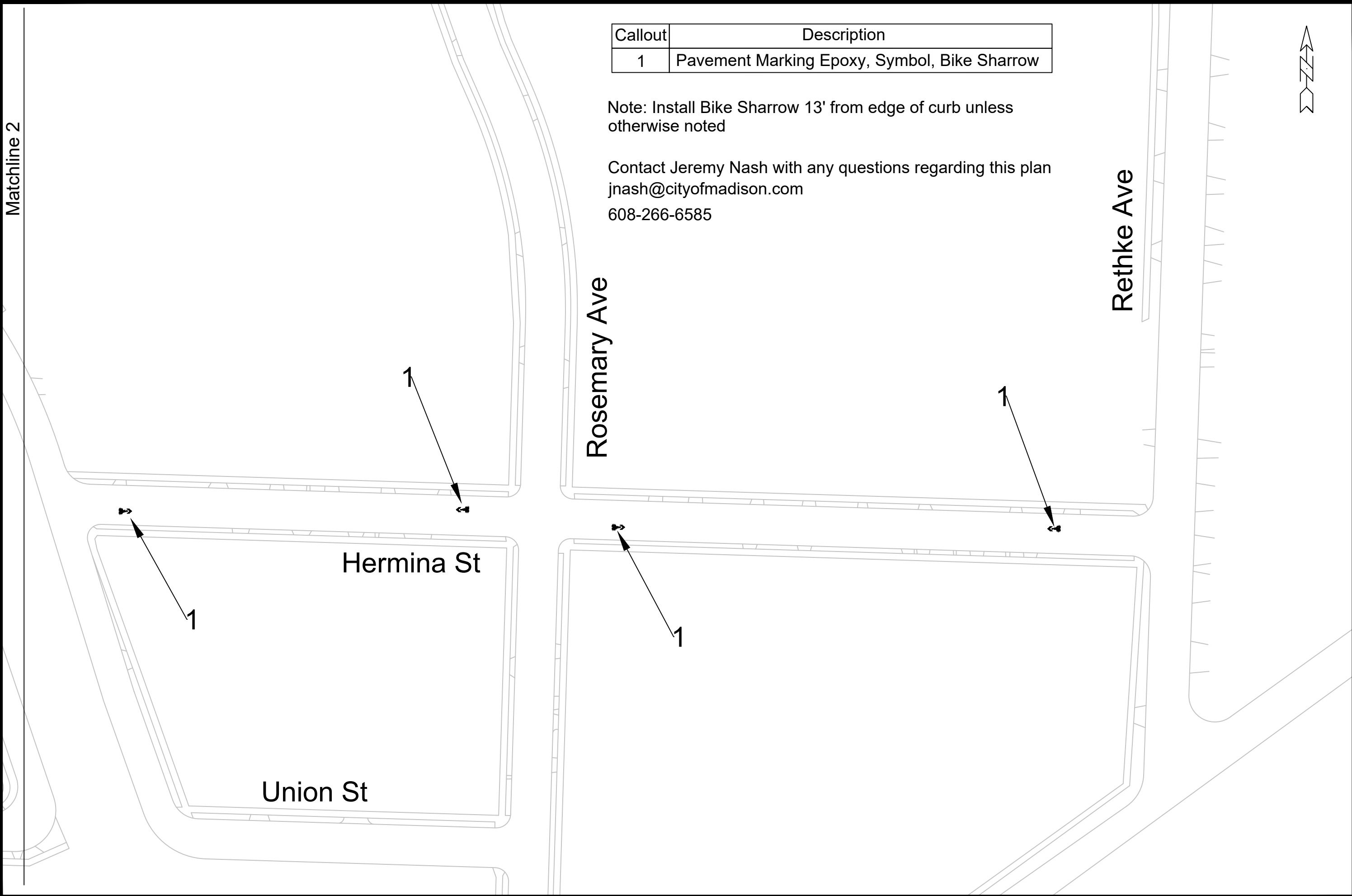
CONTRACT NO:

8708

13664

MARK	REVISION	DATE	BY
13664	1	6/25/2026	Custom
13664	2	11/37 AM	PM-2

Matchline 2



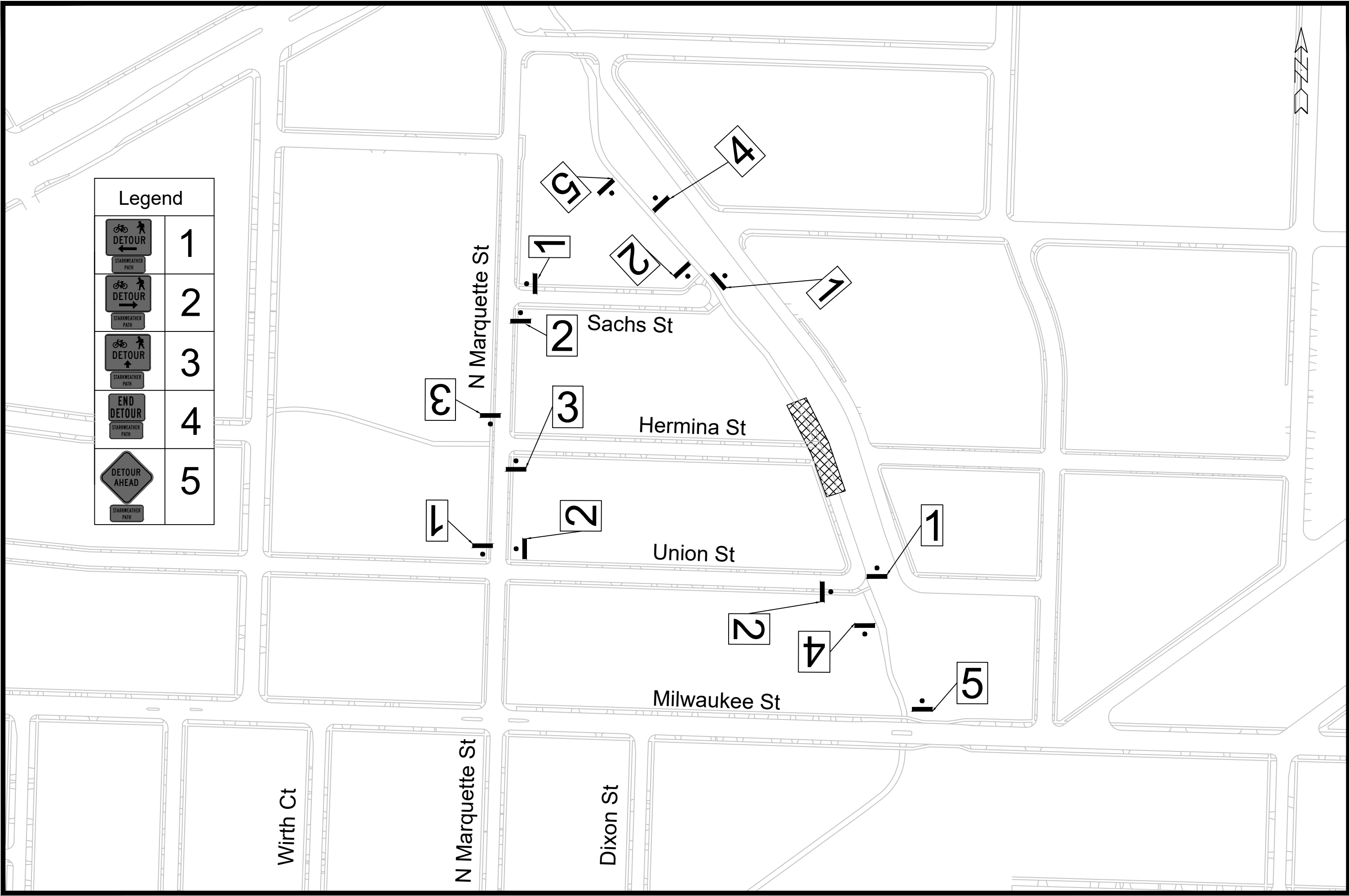
Callout	Description
1	Pavement Marking Epoxy, Symbol, Bike Sharrow

Note: Install Bike Sharrow 13' from edge of curb unless otherwise noted

Contact Jeremy Nash with any questions regarding this plan
jnash@cityofmadison.com
608-266-6585

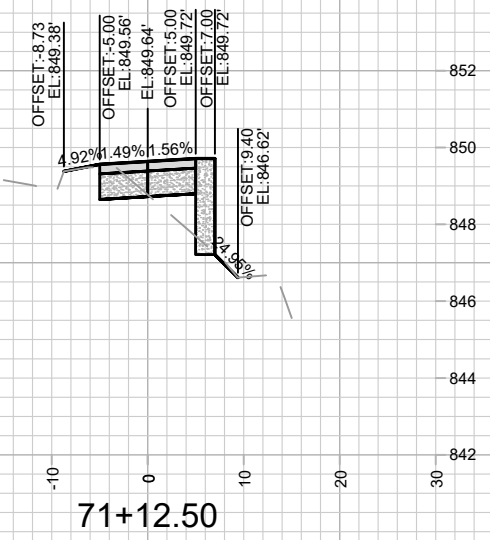
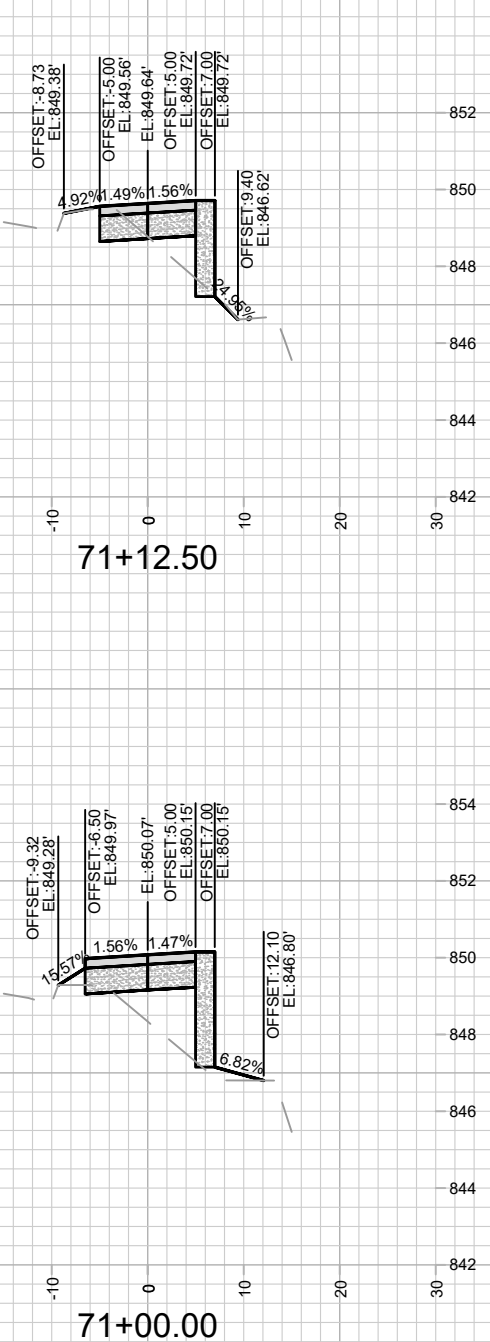
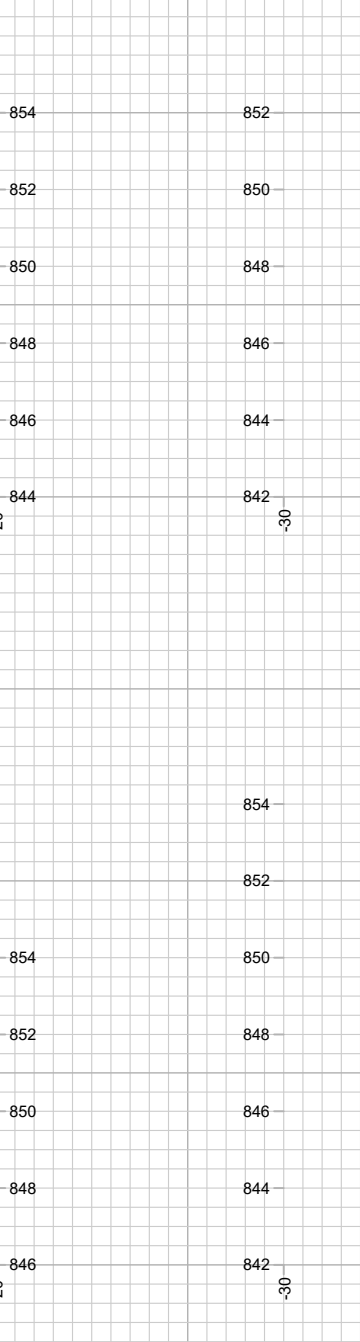
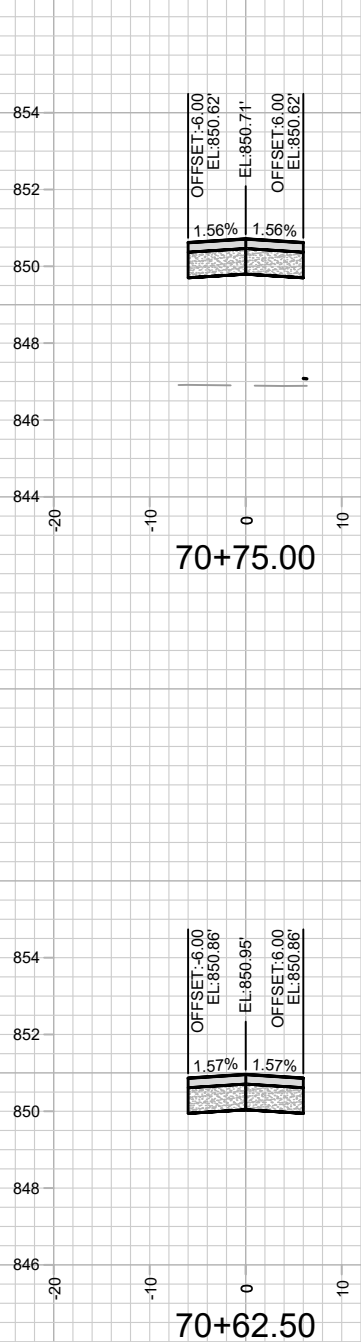
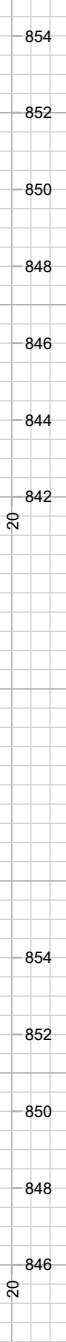
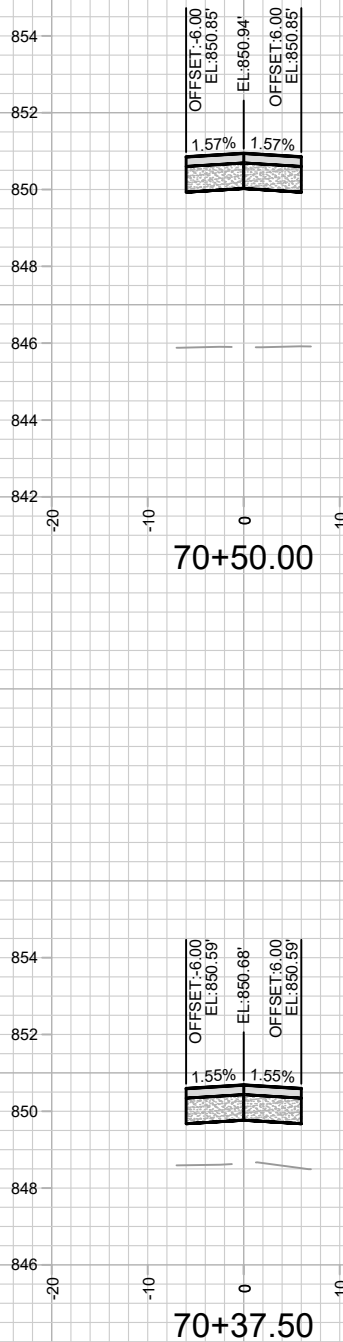


	13664	13664	13664
	PM-3		
HERMINA ST BRIDGE - PAVEMENT MARKING PLAN			
HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK			
M:\DESIGN\Projects\13664\CAD\Traffic\13664TE-Pavement Marking.dwg			
CONTRACT NO:		8708	
MADISON, WI		13664	
DATE		DATE	
REVISION		REVISION	
Scale: Custom		Scale: Custom	
BY		BY	
PM-3		PM-3	



Legend	
 STARKWEATHER PATH	1
 STARKWEATHER PATH	2
 STARKWEATHER PATH	3
 STARKWEATHER PATH	4
 STARKWEATHER PATH	5

	13664	13664
	TC-1	
HERMINA ST BRIDGE - DETOUR PLAN		
HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK		
MADISON, WI		
CONTRACT NO: 8708		
M:\DESIGN\Projects\13664\CAD\Traffic\13664\TE-Bike Detour Plan.dwg		
MARK		REVISION
Designed By: AJC	Date: 6/25/2026	11:36 AM
Scale: Custom	BY	
13664		TC-1



13664
X-1

HERMINA ST BRIDGE - CROSS SECTIONS

HERMINA ST: PED BIKE BRIDGE OVER STARKWEATHER CREEK

MADISON, WI

M:\DESIGN\Projects\13664\CAD\Streets\13664-EN-Corridor.dwg

CONTRACT NO: 8708

13664

MARK

REVISION

DATE

BY

Scale: 1" = 20'

X-1

