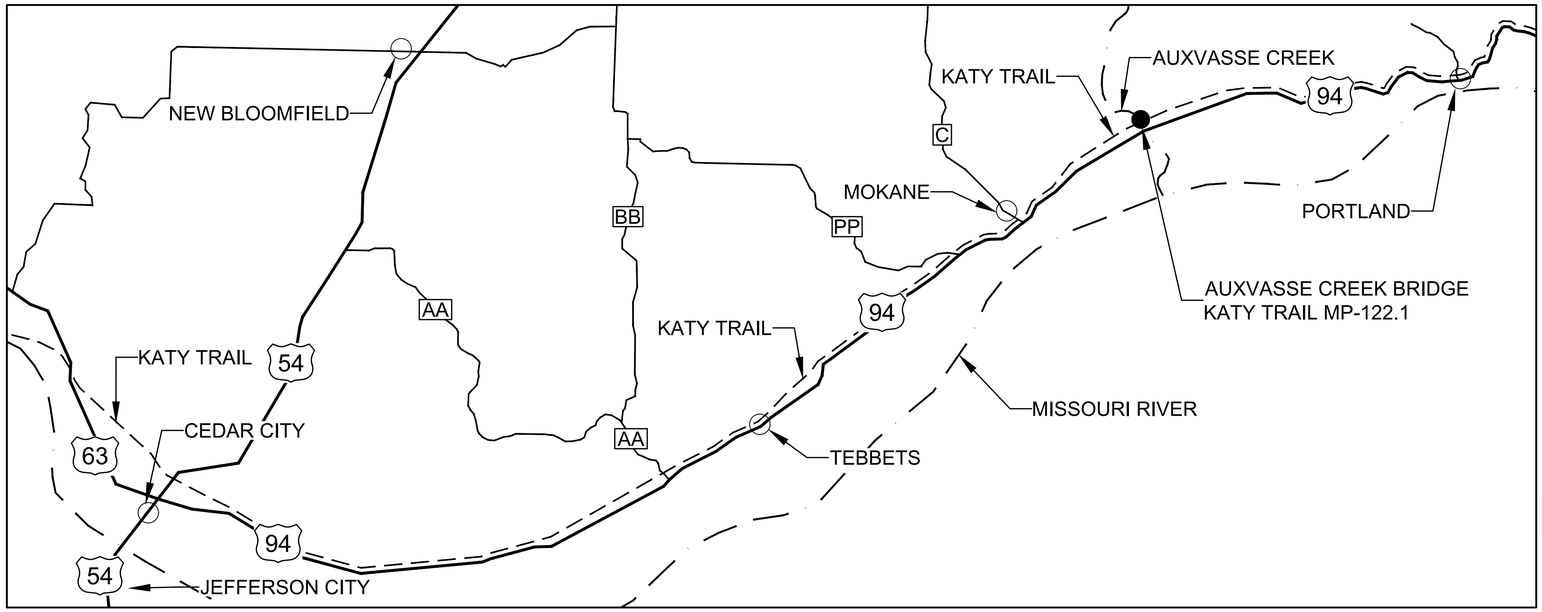
REPLACE AUXVASSE CREEK BRIDGE
KATY TRAIL STATE PARK
CALLAWAY, MISSOURI



LOCATION MAP

STATE OF MISSOURI
CHAD W. MEYER
NUMBER PE-2020009127
01-08-2026
PROFESSIONAL ENGINEER

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MISSOURI STATE PARKS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

McCLURE™
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2001 W. Broadway
Columbia, MO 65203
573.814.1568 |
www.mecresults.com

MO CERTIFICATES OF AUTHORITY
E-2006023253
S-2012009395
EXPIRES DEC. 31, 2024

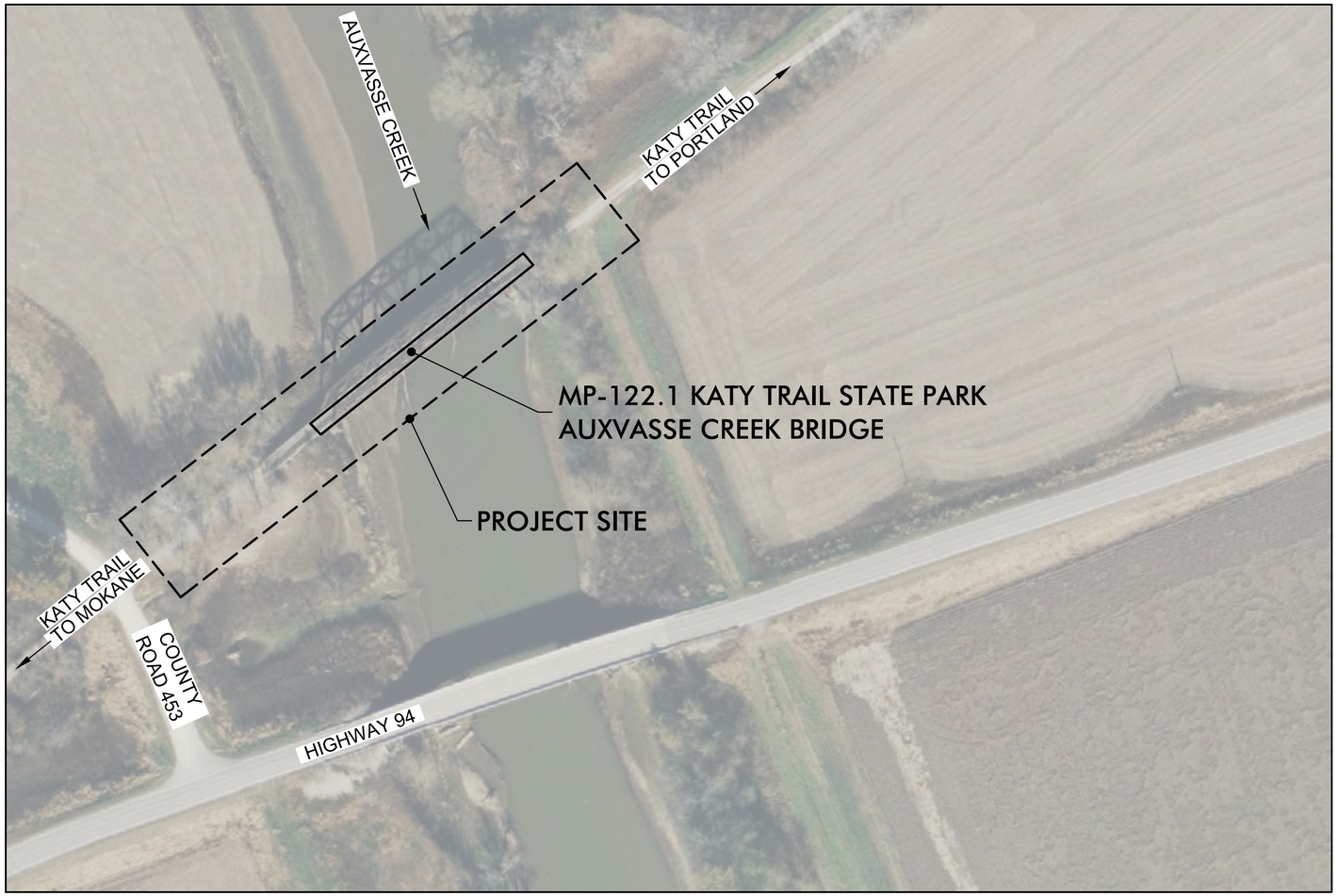
DESIGNER: McCLURE ENGINEERING COMPANY
CHAD W. MEYER, P.E.
CHAD.MEYER@MCCLUREVISION.COM

PROJECT NUMBER: X2408-02

SITE NUMBER: 5501

ASSET NUMBER: 7815501013

SHEET NUMBER:
G-001
1 OF 16 SHEETS
DECEMBER 30, 2025



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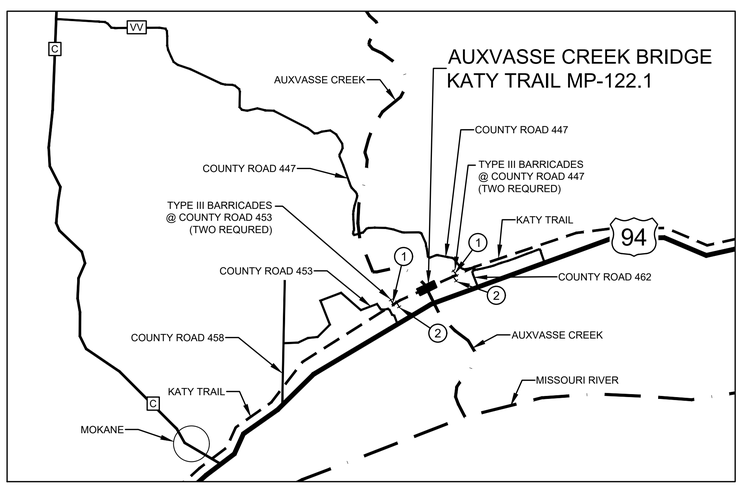
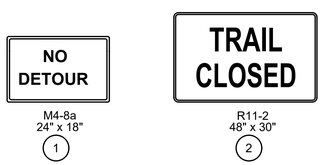
SITE LOCATION



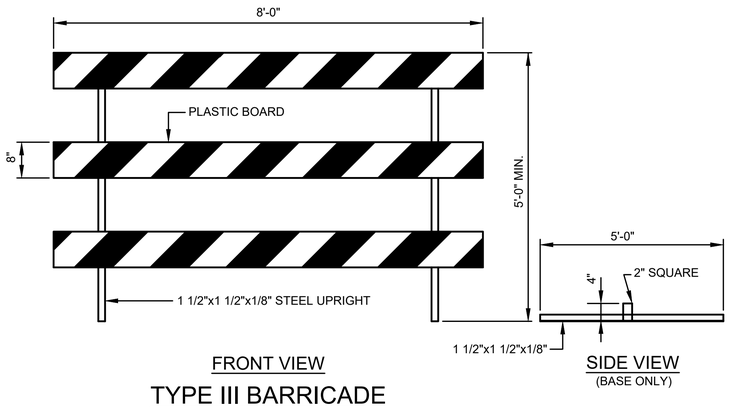
TRAFFIC CONTROL PLAN - FOR BRIDGE INSTALLATION



M4-8a
24" x 18"
(1)

R11-2
48" x 30"
(2)

TRAFFIC CONTROL SIGNAGE



FRONT VIEW

SIDE VIEW
(BASE ONLY)

TYPE III BARRICADE

TRAFFIC CONTROL NOTES:

1. CONTRACTOR SHALL PROVIDE TYPE III BARRICADES AT THE ENTRY POINTS OF THE KATY TRAIL THROUGH DURATION OF PROJECT AND PROVIDE ONE REPRESENTATIVE FOR A MINIMUM OF ONE WORKING DAY WHILE THE NEW BRIDGE STRUCTURE IS BEING INSTALLED ON THE BRIDGE END BENTS.
2. LOCATION OF BARRICADES SHALL BE:
   - 2.1. ALONG KATY TRAIL TRAVELED WAY 50' FROM CL OF INTERSECTION OF COUNTY ROAD 447/KATY TRAIL.
   - 2.2. ALONG KATY TRAIL TRAVELED WAY 50' FROM CL OF INTERSECTION OF COUNTY ROAD 453/KATY TRAIL
   - 2.3. INSTALL BARRICADES TO BLOCK ENTIRE WIDTH OF KATY TRAIL TRAVELED WAY..
3. BARRICADES SHALL INCLUDE R11-2 "TRAIL CLOSED" AND M4-8A "NO DETOUR" SIGNS.
4. INSTALL M4-8a AND R11-2 SIGNS TO FRONT FACE OF TYPE III BARRICADES WITH TOP OF SIGN 48" ABOVE GRADE AND CENTERED ON BARRICADE.
5. R11-2 SIGNS SHALL BE 48" WIDE BY 30" HEIGHT AND 0.10" THICK.
6. M4-8a SIGNS SHALL BE 24" WIDE BY 18" HEIGHT AND 0.08" THICK.
7. ALL SIGNS SHALL HAVE ASTM TYPE 4 WHITE BACKGROUND SHEETING WITH BLACK LEGENDS.

INDEX OF SHEETS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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Chad W Meyer
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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-GNL-03
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

SHEET TITLE:

LOCATION MAP

SHEET NUMBER:

G-002

2 OF 16 SHEETS
DECEMBER 30, 2025

HATCH LEGEND

NEW AGGREGATE SURFACE

NEW BRIDGE

DEBRIS REMOVAL

ROCK BLANKET

LINETYPE LEGEND

EXISTING	PROPOSED	
8"SS	8"SS	SANITARY SEWER MAIN
SS	SS	SANITARY SEWER SERVICE
FM	FM	SANITARY SEWER FORCE MAIN
8"ST	8"ST	STORM SEWER MAIN OR CULVERT
		SECONDARY STORM SEWER MAIN
		SECONDARY STORM SEWER SERVICE
8"W	8"W	WATER MAIN
W	W	WATER SERVICE
UE	UE	UNDERGROUND ELECTRIC
OHE	OHE	OVERHEAD ELECTRIC
T	T	UNDERGROUND TELEPHONE
FO	FO	UNDERGROUND FIBER OPTIC
TV	TV	UNDERGROUND CABLE TV
G	G	GAS MAIN OR SERVICE
		CONTOUR LINES INTERMEDIATE
		CONTOUR LINES INDEX
		PROPERTY LINE / LOT LINE
		SECTION LINE
		EASEMENT
		GUARD RAIL
X	X	FIELD FENCE
o	o	CHAIN LINK FENCE
		WOODEN FENCE
		ROAD CENTERLINE
		CONSTRUCTION LIMITS
		WATERWAY FLOWLINE
		TOP OF SLOPE
		BOTTOM OF SLOPE
x	x	SILT FENCE
	x x x x x	FEATURE REMOVAL
		UTILITY TO BE ABANDONED

SYMBOL LEGEND

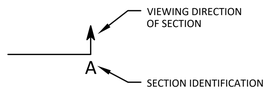
EXISTING	PROPOSED	
S	S	SANITARY SEWER MANHOLE
C	C	SANITARY SEWER CLEANOUT
A	A	AIR RELEASE MANHOLE/DRAIN MANHOLE
D	D	STORM SEWER MANHOLE
C	C	STORM SEWER CLEANOUT
D		STORM SEWER INTAKE
		STORM SEWER BEEHIVE INTAKE
>	>	FLARED END SECTION
		FIRE HYDRANT
WV	WV	WATER VALVE
VM	VM	WATER VALVE MANHOLE
WM	WM	WATER METER MANHOLE
YH	YH	YARD HYDRANT
E	E	ELECTRIC MANHOLE / VAULT
E	E	ELECTRIC PEDESTAL / TRANSFORMER
		OUTDOOR ELECTRIC POWER OUTLET
		POWER POLE
STL	STL	POWER POLE w/ STREET LIGHT
		STREET LIGHT POLE
		GUY WIRE
TS	TS	TRAFFIC SIGNAL
TB	TB	TRAFFIC SIGNAL BOX
TM	TM	TRAFFIC SIGNAL MANHOLE / VAULT
RR	RR	RAILROAD CROSSING SIGNAL
T	T	TELEPHONE MANHOLE / VAULT
T	T	TELEPHONE PEDESTAL
TV	TV	CABLE TV MANHOLE / VAULT
TV	TV	CABLE TV PEDESTAL
GV	GV	GAS VALVE
		IRON PIN FOUND/PROPERTY PIN
B	B	BOLLARD (BUMPER POST)
		MISCELLANEOUS SIGN
MB	MB	MAILBOX
W	W	WELL
		DECIDUOUS TREE
		EVERGREEN TREE
		SHRUB OR BUSH
		TREE OR SHRUB LINE
		STUMP
		SANITARY SERVICE
		SOIL BORINGS
FP		FLAG POLE
		SLOPE INDICATORS
		CONTROL POINT
		BENCH MARK
		IRON PIN SET
		PROPERTY PIN

CIVIL ABBREVIATIONS

A.C.C.	ASPHALT CEMENT CONCRETE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ASSY.	ASSEMBLY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BM	BENCH MARK
BOT	BOTTOM OF SLOPE
C	CUT
CP	CONTROL POINT
CL	CENTERLINE
DIP	DUCTILE IRON PIPE
EP	EDGE OF PAVEMENT
F	FILL
FES	FLARED END SECTION
FL	FLOWLINE
HMA	HOT MIX ASPHALT
MAX.	MAXIMUM
MIN.	MINIMUM
S	OFFSET
P.C.C.	PORTLAND CEMENT CONCRETE
PSI.	PRESSURE PER SQUARE INCH
R.O.W.	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
R/R	RAILROAD
SQ.FT.	SQUARE FEET
SY	SQUARE YARD
TC	TOP OF CURB
T/S	TOP OF SLAB
TOS	TOP OF SLOPE
TYP.	TYPICAL
UPRR	UNION PACIFIC RAILROAD

CIVIL LEGENDS

SECTION DESIGNATION
(SHOWN ON SAME SHEET)



DESIGN SPECIFICATIONS:

AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION.
AASHTO LRFD SPECIFICATIONS 9TH EDITION AND APPLICABLE INTERIMS.
STATE OFFICE OF ADMINISTRATION DESIGN GUIDELINES.

DESIGN LOADING:

DEAD LOAD
UNIFORM LIVE LOAD OF 90 PSF
H20 DESIGN VEHICLE
LATERAL WIND LOAD OF 25 PSF ON PROJECTED AREA
20 PSF UPWARD WIND

DESIGN UNIT STRESSES:

CLASS B-2 CONCRETE f'c = 4,000 PSI
REINFORCING STEEL (NON-EPOXY) (GRADE 60) Fy = 60,000 PSI
STEEL PILING = A709 GRADE 50, Fb = 12,500 PSI
STRUCTURAL STEEL = A709 GRADE 50W

NEOPRENE BEARINGS:

BEARINGS SHALL BE 60 DUROMETER PLAIN NEOPRENE PADS.

NEOPRENE PAD SHALL BE BONDED TO BEARING SEAT WITH AN EPOXY ADHESIVE AS APPROVED BY BEARING MANUFACTURER FOR BONDING NEOPRENE TO CONCRETE.

REINFORCING STEEL:

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 2", UNLESS OTHERWISE SHOWN.

PAYMENT FOR REINFORCING STEEL SHALL BE INCLUDED IN CONCRETE ITEMS.

STRUCTURAL STEEL:

CONTRACTOR SHALL UTILIZE A FABRICATOR THAT MEETS THE APPROPRIATE INSTITUTE OF STEEL CONSTRUCTION (AISC) CERTIFICATION.

STRUCTURAL STEEL: A709 GRADE 50W.

ALL WELDING OPERATIONS RELATED TO STRUCTURAL STEEL, INCLUDING MATERIAL AND PERSONNEL, SHALL MEET THE AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS FOR E70XX.

ALL BOLTS TO BE TYPE 3 A325.

GEOTECHNICAL INVESTIGATION:

REFER TO GEOTECHNICAL REPORT IN APPENDIX A OF THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE PILE DRIVING POINTS AT LOCATIONS SHOWN.

ALL PILES SHALL DRIVEN TO PRACTICAL REFUSAL. SEE SOIL INVESTIGATION REPORT IN PROJECT SPECIFICATIONS. (SEE APPX A)

ROCK BLANKET:

ROCK BLANKET SHALL BE PROVIDED AND PLACED AT EACH END BENT TO LIMITS SHOWN ON PLANS AND SHALL MATCH EXISTING GROUNDLINE AS CLOSE AS POSSIBLE. EXCAVATION REQUIRED TO PLACE ROCK BLANKET SHALL BE CONSIDERED INCIDENTAL.

MATERIAL FOR ROCK BLANKET SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NO MORE THAN 10 PERCENT OF SOIL, SAND, SHALE OR NON-DURABLE ROCK.

MATERIAL SHALL CONTAIN A LARGE PERCENTAGE OF PIECES AS LARGE AS THE THICKNESS OF BLANKET WILL PERMIT, WITH ENOUGH SMALLER PIECES OF VARIOUS SIZES TO FILL THE LARGER VOIDS. FOR TYPE 2 ROCK BLANKET AT LEAST 60 PERCENT OF THE MASS SHALL BE PIECES HAVING A VOLUME OF 1 CUBIC FOOT OR MORE. ACCEPTANCE OF QUALITY AND SIZE OF MATERIAL WILL BE MADE BY VISUAL INSPECTION AT THE JOB SITE BY THE ENGINEER.

A TRENCH AT TOE OF ROCK SLOPE SHALL BE EXCAVATED TO A DEPTH OF 4 FEET. ROCK SHALL BE PLACED ON SLOPE TO SPECIFIED THICKNESS AND MANIPULATED SUCH THAT MOST FLAT SIDES ARE IN CONTACT WITH SUB-GRADE, THEREBY ELIMINATING LARGE VOIDS. FINISHED SURFACE OF BLANKET SHALL BE SET TO AN APPEARANCE FREE FROM SEGREGATION AND WITH A PROPORTIONATE QUANTITY OF LARGER PIECES SHOWING.

GEOTEXTILE/FILTER FABRIC:

GEOTEXTILE FOR FILTER FABRIC SHALL BE IN ACCORDANCE WITH PHYSICAL AND CHEMICAL REQUIREMENTS OF AASHTO M 288.

PERMANENT EROSION CONTROL GEOTEXTILE SHALL BE USED UNDER THE ROCK BLANKET. THE MINIMUM PERMITTIVITY SHALL BE 1.0 SEC-1. THE MATERIAL SHALL BE EITHER AASHTO CLASS 1 OR CLASS 2.

SUBSURFACE DRAINAGE GEOTEXTILE SHALL BE USED AS IN SUBSURFACE DRAINAGE AS A FILTER TO PROTECT DRAINAGE MEDIA FROM CLOGGING WITH FINES FROM ADJACENT SOIL SUCH AS WRAPPING OF DRAIN PIPES. MINIMUM PERMATIVITTY SHALL BE 1.0 SEC-1. THE MATERIAL SHALL AASHTO CLASS 2.

SEPARATION GEOTEXTILE SHALL BE USED AS A SEPARATION MATERIAL TO PREVENT MIXING OF DISSIMILAR MATERIAL AND TO CONTROL MIGRATION OF BACKFILL MATERIAL. THE MINIMUM PERMITTIVITY SHALL BE 1.0 SEC-1. THE MATERIAL SHALL AASHTO CLASS01.

AGGREGATE BASE:

AGGREGATE BASE FOR CONSTRUCTION OF NEW TRAIL SHALL BE MISSOURI DEPARTMENT OF TRANSPORTATION TYPE 5 OR APPROVED EQUAL. THE AGGREGATE SHALL CONSIST OF CRUSHED STONE OR GRAVEL. THE AGGREGATE SHALL NOT CONTAIN MORE THAN 15 PERCENT DELETERIOUS ROCK AND SHALE. IF CRUSHED STONE IS USED, SAND MAY BE ADDED ONLY FOR THE PURPOSED OF REDUCING THE PLASTICITY INDEX OF THE FRACTION PASSING THE NO. 40 SIEVE IN THE FINISHED PRODUCT. THE FRACTION PASSING THE NO. 40 SIEVE SHALL HAVE A PLASTICITY INDEX NOT TO EXCEED SIX. AND SAND, SILT AND CLAY, AND DELETERIOUS ROCK AND SHALE SHALL BE UNIFORMLY DISTRIBUTED THROUGHOUT THE MATERIAL. WHEN SAND AND GRAVEL AGGREGATE ARE USED, THE FRACTION PASSING THE NO. 200 SIEVE SHALL BE LESS THAN ONE HALF OF THAT FRACTION PASSING THE NO. 30 SIEVE. AGGREGATE BASE SHALL BE IN ACCORDANCE WITH THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE	PERCENT BY WEIGHT
1-INCH	100
1/2-INCH	60-90
NO. 4	35-60
NO. 30	10-35
NO. 200	0-15

FOUNDATION DATA			AUXVASSE CREEK BRIDGE			
LOAD BEARING PILES	LOCATION		END BENT 1	INTERMEDIATE BENT 1	INTERMEDIATE BENT 2	END BENT 2
	PILE TYPE AND SIZE		HP12x53	EXISTING MASONRY	EXISTING MASONRY	HP12x53
	NUMBER		3	-	-	3
	APPROXIMATE LENGTH	(FT)	79	-	-	61
	DESIGN BEARING	(TONS)	31	-	-	26
	ESTIMATED PILE TIP ELEV.	(FT)	449.00	-	-	467.00
	MINIMUM PILE TIP ELEV.	(FT)	449.00	-	-	467.00

GENERAL NOTES:

STATE OFFICE OF ADMINISTRATION DESIGN SPECIFICATIONS AND THE PROJECT SPECIFICATIONS SHALL GOVERN.

THE CONTRACTOR SHALL LOCATE ALL UTILITIES AROUND THE BRIDGE PROJECT LOCATION PRIOR TO EXCAVATION OR CONSTRUCTION.

REFER TO PROJECT SPECIFICATIONS FOR BRIDGE SUPPLIER AND BRIDGE STYLE ALTERNATIVES. RAILS AND PICKETS SHALL BE INCLUDED WITH THE PREFABRICATED BRIDGE (SEE SPECIFICATION SECTION 323413).

CONTRACTORS SCOPE OF WORK:

SHALL INCLUDE THE FOLLOWING TASKS AND THOSE ACTIVITIES INCIDENTAL TO THE FOLLOWING TASKS:

FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING MATERIALS.

SELECTION AND PURCHASE OF PREFABRICATED BRIDGE IN ACCORDANCE WITH PROJECT.

PROVIDE "H" STYLE BRIDGE CROSS SECTION.

DRIVE PILING AND CONSTRUCT BRIDGE END BENTS INCLUDING ALL REQUIRED INCIDENTAL CONCRETE WORK.

ASSEMBLY OF PREFABRICATED BRIDGE AND ITS ERECTION ON THE COMPLETED END BENTS AND EXISTING MASONRY INTERMEDIATE BENTS SHALL BE IN ACCORDANCE WITH BRIDGE MANUFACTURER'S RECOMMENDATION.

CONSTRUCTION OF CAST IN PLACE CONCRETE DECK ON BRIDGE ACCORDING TO MANUFACTURER'S RECOMMENDED DETAILS AND SPECIFICATIONS INCLUDING PROVIDING REBAR, RELATED MATERIALS AND CONCRETE CURING.

PURCHASE AND INSTALLATION OF ALL NECESSARY MATERIALS FOR INSTALLATION OF JOINT SEALS BETWEEN THE END BENT BACKWALL AND THE ENDS OF DECK AT EACH END BENT LOCATION.

PEDESTRIAN BRIDGE MANUFACTURER SHALL SPECIFY JOINT SEAL SYSTEM TO BE USED AND SHALL PROVIDE INSTALLATION INSTRUCTIONS.

FABRICATE AND INSTALL APPROACH HANDRAIL ON WINGWALLS AT END BENTS WHICH MATCHES RAILING ON BRIDGES.

CONTRACTOR SHALL SUBMIT SEALED PLANS AND CALCULATIONS BY A MISSOURI REGISTERED PROFESSIONAL ENGINEER FOR PREFABRICATED BRIDGE TO ENGINEER FOR REVIEW AND APPROVAL. PLANS SHALL CLEARLY IDENTIFY THE MANUFACTURER, STYLE, SECTION, REACTIONS, BEARING SEAT REQUIREMENTS, BEARING ASSEMBLY GEOMETRY AND JOINT SEAL DETAILS.

CONTRACTOR SHALL NOT BEGIN CONSTRUCTION OF BRIDGE END BENTS UNTIL THEY HAVE RECEIVED APPROVED SHOP DRAWINGS FOR PREFABRICATED BRIDGE.

PREFABRICATED BRIDGE MANUFACTURER IS RESPONSIBLE FOR DESIGN OF CONCRETE DECK AND DECK REINFORCING. CONTRACTOR SHALL SUPPLY DECK REINFORCING TO CONSTRUCT CONCRETE BRIDGE DECK IN ACCORDANCE WITH MANUFACTURER'S SUPPLIED DETAILS AND SPECIFICATIONS.

NON-SHRINK GROUT FOR ANCHOR BOLT INSTALLATION SHALL BE NON-METALLIC, PRE-PACKED GROUT CONFORMING TO ASTM C-1107 WITH A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109.

CONCRETE BRIDGE DECK SHALL HAVE A BROOM FINISH.

SITE NOTES:

1. THESE PLANS WERE GENERATED FROM AVAILABLE RECORDS OF EXISTING DESIGN DOCUMENTS AND FIELD SURVEYS CONDUCTED FOR THIS PROJECT. FIELD VERIFICATION OF ALL ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE PLANS SHOULD BE MADE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. McCLURE ENGINEERING COMPANY DOES NOT IMPLY OR GUARANTEE ACCURACY OF THE EXISTING INFORMATION REPRESENTED ON THE PLANS.
2. NOTIFY ALL UTILITY COMPANIES KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
4. MISSOURI UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION STATUTE (RSMo CHAPTER 319) REQUIRES NOTICE TO MISSOURI ONE CALL 1-800-DIG-RITE (OR 811) NOT LESS THAN 72 HOURS OR MORE THAN 10 WORKING DAYS PRIOR TO BEGINNING EXCAVATION, EXCLUDING WEEKENDS AND HOLIDAYS. SEE WWW.MO1CALL.COM FOR ADDITIONAL DETAILS.
5. THE MEANS AND METHODS OF SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION OF THE OWNER'S REPRESENTATIVE.
7. PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
8. MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
9. SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.
10. ALL OPEN EXCAVATIONS SHALL BE PROTECTED. ORANGE CONSTRUCTION FENCE AS A MINIMUM.
11. REPLACE ANY PROPERTY MONUMENTS REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF MISSOURI.
12. CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS PER SPECIFICATION 024116.
13. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
14. REPAIR OR REPLACE EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
15. WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY McCLURE ENGINEERING COMPANY AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE DIRECTION OF McCLURE ENGINEERING COMPANY, WORK DONE BEYOND THE PROJECT LIMITS OR ANY EXTRA WORK DONE WITHOUT AUTHORIZATION WILL NOT BE PAID FOR.

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND DISTURBANCE NOTE:

1. THIS PROJECT DISTURBS LESS THAN ONE ACRE IN TOTAL, THEREFORE IS EXEMPT FROM NEEDING A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI OR LOCAL REGULATORS.

NOTE:
- MINIMUM ENERGY REQUIREMENT OF HAMMER IS BASED ON PLAN LENGTH AND DESIGN BEARING VALUE OF PILES.
- PILES SHALL BE DRIVEN TO PRACTICAL REFUSAL PER FHWA-MODIFIED GATES DYNAMIC FORMULA.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR PILE SPLICES.
- EXCAVATION FOR STRUCTURES SHALL INCLUDE ALL CLASSES OF EXCAVATION. NO EXTRA PAYMENT WILL BE MADE FOR ROCK EXCAVATION IF ROCK IS ENCOUNTERED. REFER TO GEOTECHNICAL REPORT IN SPECIFICATION INDEX.

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
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ASSET NO. 7815501013

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REVISION:
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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-GNL-04
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

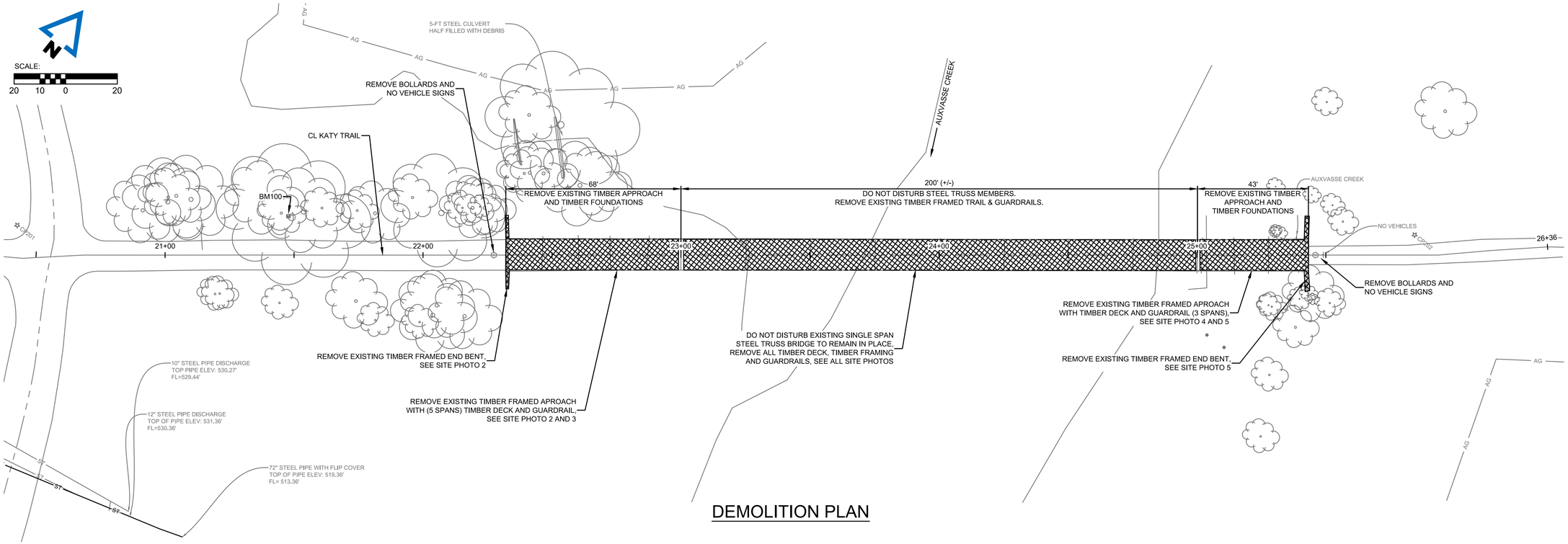
SHEET TITLE:

GENERAL NOTES & LEGENDS

SHEET NUMBER:

G-003

3 OF 16 SHEETS
DECEMBER 30, 2025



DEMOLITION PLAN

SITE PHOTO 1

NOT TO SCALE

SITE PHOTO 2

NOT TO SCALE

SITE PHOTO 3

NOT TO SCALE

SITE PHOTO 4

NOT TO SCALE

SITE PHOTO 5

NOT TO SCALE

GENERAL NOTES:

1. ALL EXISTING TIMBER BRIDGE MATERIALS AND FOUNDATIONS ARE TO BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF BY CONTRACTOR.
2. EXISTING WOOD PILE TO BE REMOVED TO A LIMIT OF 2' BELOW EXISTING GRADE.
3. ALL CONSTRUCTION ACTIVITY TO REMAIN WITHIN RIGHT OF WAY LIMIT STATIONS & OFFSETS SHOWN ON PLAN & PROFILE SHEET.
4. ALL EXCAVATED AREAS FOR DEMOLITION SHALL BE FILLED WITH SUITABLE MATERIALS AND APPROVED BY THE ENGINEER.
5. DO NOT DISTURB EXISTING SINGLE SPAN STEEL TRUSS BRIDGE TO REMAIN IN PLACE.
6. DO NOT DISTURB EXISTING INTERMEDIATE MASONRY PIERS TO REMAIN IN PLACE.

TREE REMOVAL NOTES:

1. SOME TREES REPRESENTED IN THE PHOTOS ON THIS PAGE HAVE BEEN REMOVED BY THE OWNER.
2. TREES REMOVED WERE SELECTED TO ASSIST CONTRACTOR'S WORK. ANY ADDITIONAL TREE REMOVAL REQUIRED FOR CONTRACTOR'S MEANS AND METHODS TO BE APPROVED BY OWNER PRIOR TO REMOVAL.
3. TREES 4" IN DIAMETER AND SMALLER ARE INCIDENTAL AND DO NOT REQUIRE SPECIAL APPROVALS FOR REMOVAL.

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MIKE KEHOE,
GOVERNOR

CHAD W. MEYER
NUMBER PE-2020009127
01-08-2026
STATE OF MISSOURI
PROFESSIONAL ENGINEER

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STATE PARKS

REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-DEM-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

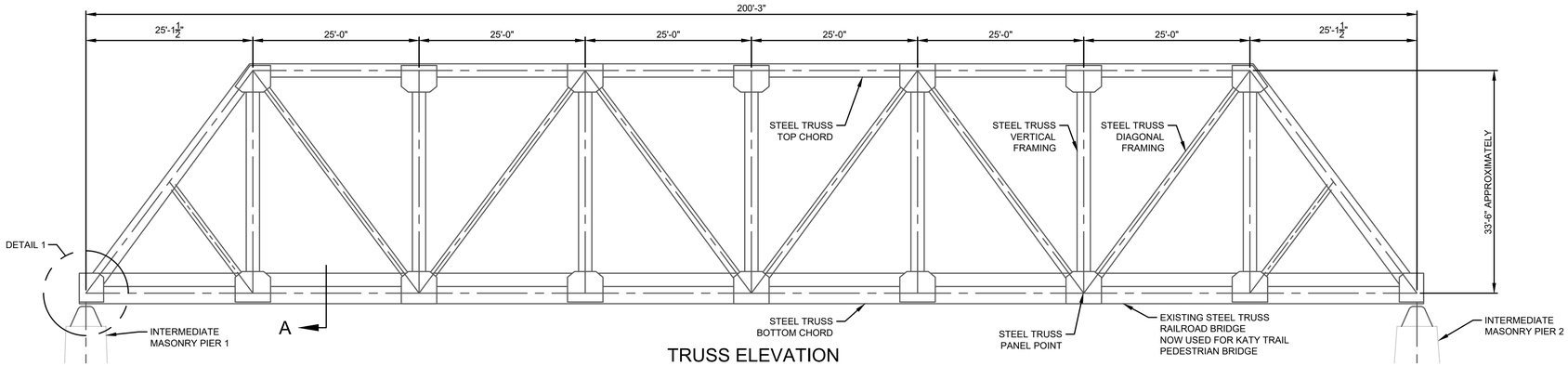
SHEET TITLE:

DEMOLITION PLAN

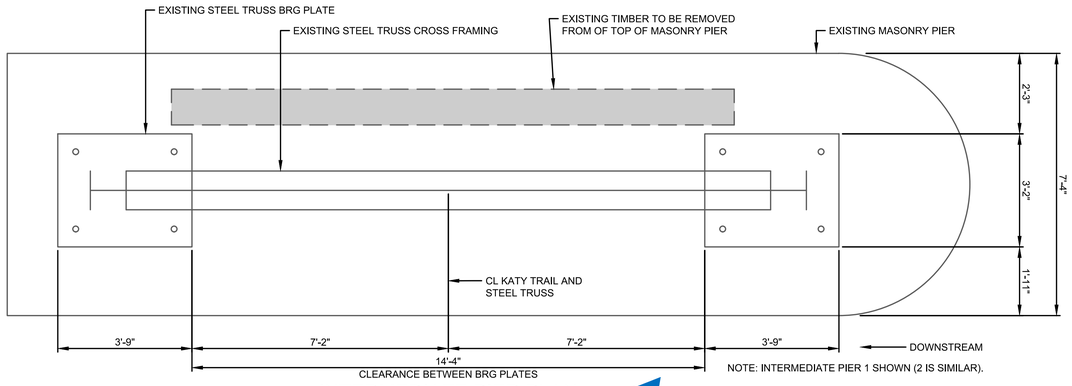
SHEET NUMBER:

CD-001

4 OF 16 SHEETS
DECEMBER 30, 2025

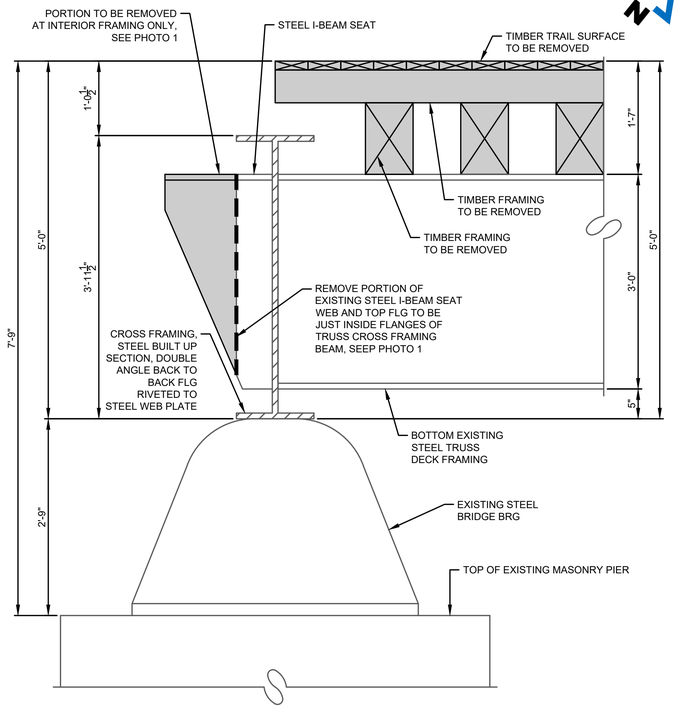


TRUSS ELEVATION

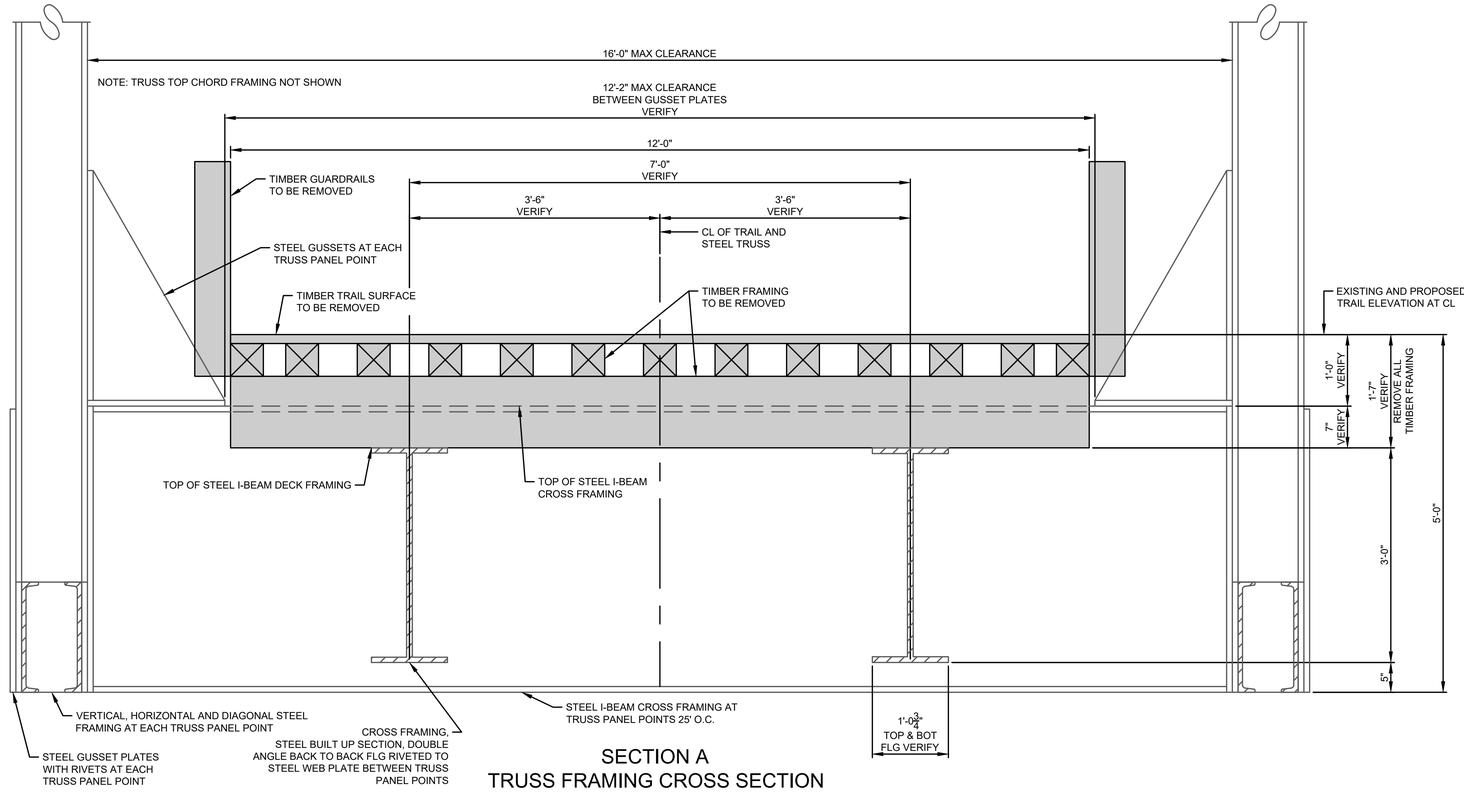


NOTE: INTERMEDIATE PIER 1 SHOWN (2 IS SIMILAR).

INTERMEDIATE PIER PLAN



DETAIL 1
TRUSS BEARING SIDE VIEW



SECTION A
TRUSS FRAMING CROSS SECTION

GENERAL NOTES:

1. THIS DRAWING IS NOT TO SCALE.
2. DIMENSIONS SHOWN ARE APPROXIMATE.
3. DO NOT DAMAGE ANY EXISTING STEEL TRUSS MEMBERS.
4. REMOVE ALL EXISTING TIMBER TRAIL AND GUARDRAIL FRAMING.
5. AFTER REMOVAL OF ALL TIMBER FRAMING CONTRACTOR TO COORDINATE TIME FOR INSPECTION OF ALL EXISTING STEEL FRAMING AND INTERMEDIATE PIER CONDITIONS WITH OWNER AND ENGINEER.
6. ALL EXISTING STEEL AND MASONRY DESIGN AND DOCUMENTATION OF EXISTING CONDITIONS AND INSPECTIONS SHALL BE THE OWNERS RESPONSIBILITY.
7. DIMENSIONS SHOWN WITH "VERIFY" NOTED SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AND PRESENT ALL DISCREPANCIES TO ENGINEER AND OWNER FOR COORDINATION OF ANY REQUIRED CHANGES.

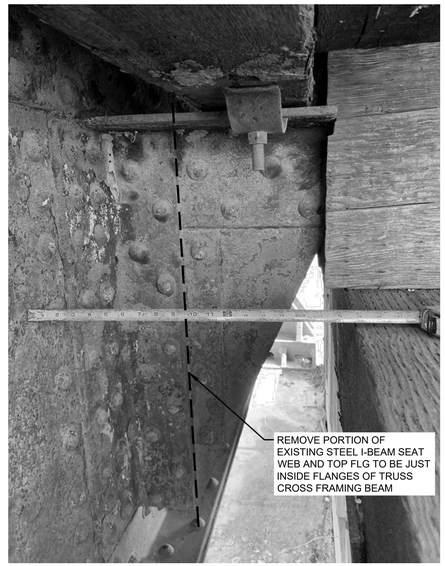


PHOTO 1

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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CHAD W. MEYER
Chad W Meyer
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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-BAS-02-X
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

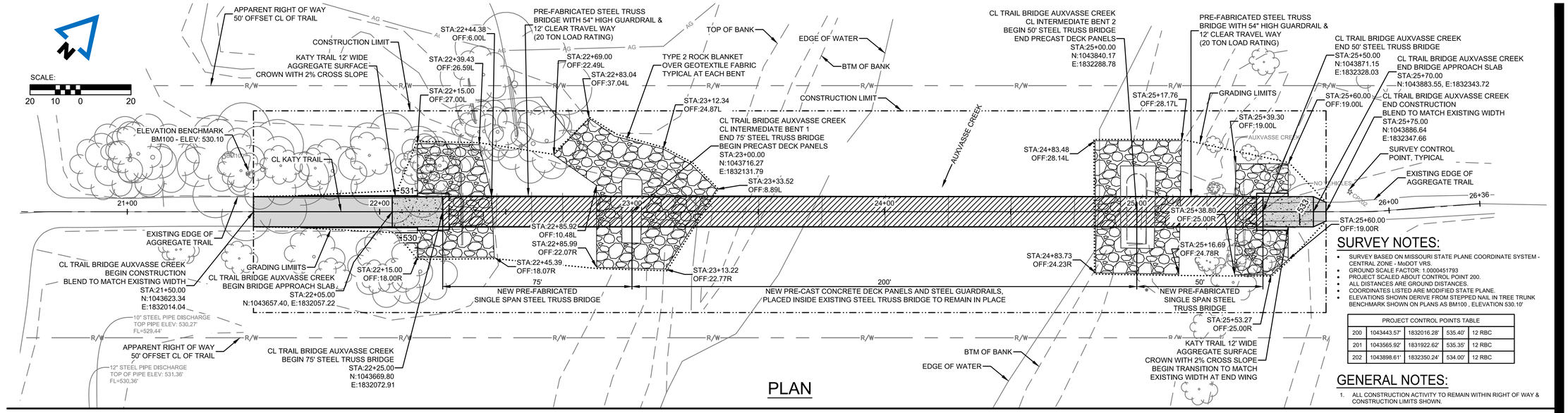
SHEET TITLE:

EXISTING STEEL TRUSS DIAGRAM

SHEET NUMBER:

CD-002

5 OF 16 SHEETS
DECEMBER 30, 2025



PLAN

SURVEY NOTES:

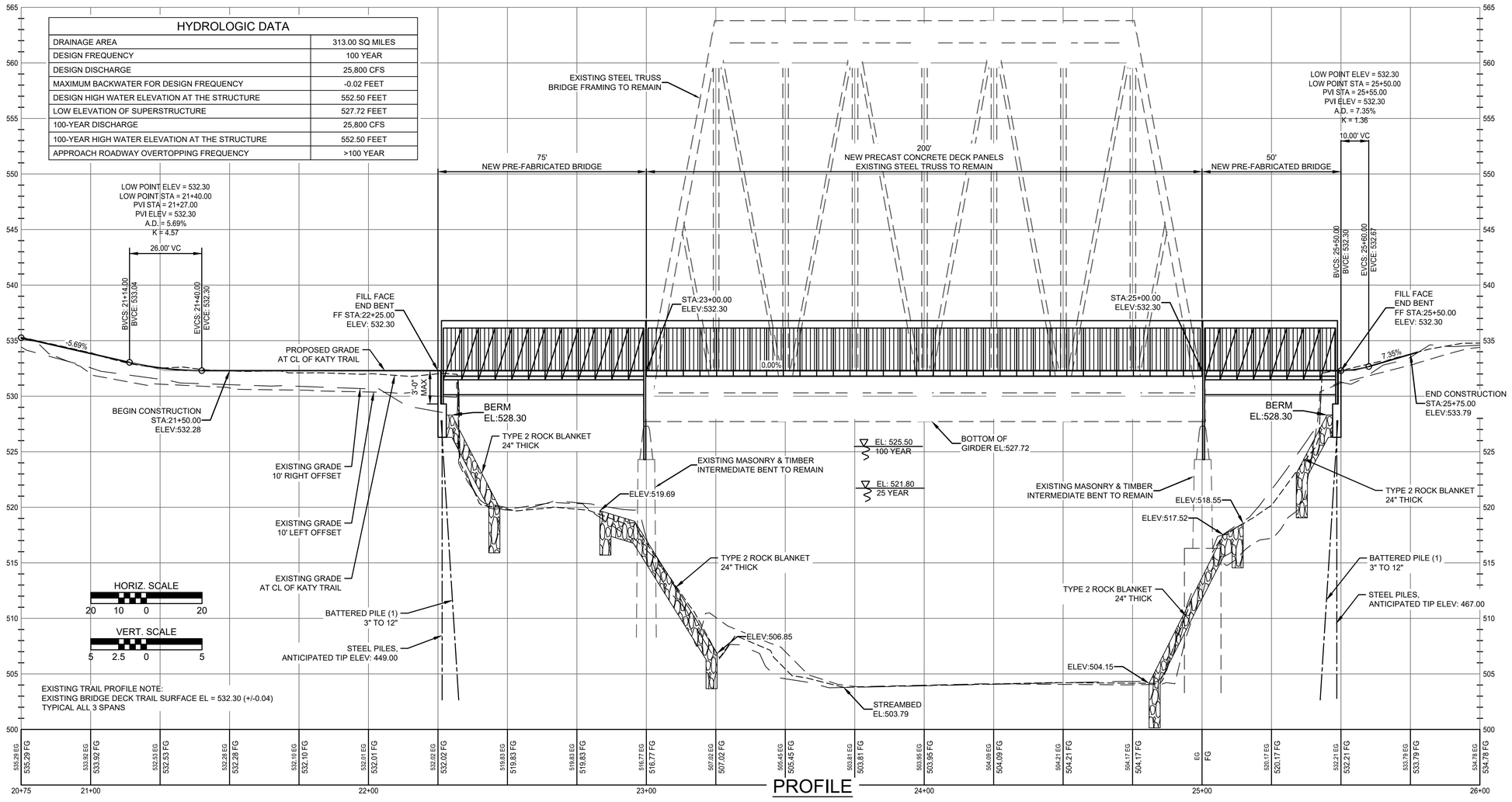
- SURVEY BASED ON MISSOURI STATE PLANE COORDINATE SYSTEM - CENTRAL ZONE - MoDOT VRS.
- GROUND SCALE FACTOR: 1.0000451793
- PROJECT SCALED ABOUT CONTROL POINT 200.
- ALL DISTANCES ARE GROUND DISTANCES.
- COORDINATES LISTED ARE MODIFIED STATE PLANE.
- ELEVATIONS SHOWN DERIVE FROM STEPPED NAIL IN TREE TRUNK BENCHMARK SHOWN ON PLANS AS BM100 , ELEVATION 530.10'

PROJECT CONTROL POINTS TABLE				
200	1043443.57'	1832016.28'	535.40'	12 RBC
201	1043565.92'	1831922.62'	535.35'	12 RBC
202	1043898.61'	1832350.24'	534.00'	12 RBC

GENERAL NOTES:

1. ALL CONSTRUCTION ACTIVITY TO REMAIN WITHIN RIGHT OF WAY & CONSTRUCTION LIMITS SHOWN.

HYDROLOGIC DATA	
DRAINAGE AREA	313.00 SQ MILES
DESIGN FREQUENCY	100 YEAR
DESIGN DISCHARGE	25,800 CFS
MAXIMUM BACKWATER FOR DESIGN FREQUENCY	-0.02 FEET
DESIGN HIGH WATER ELEVATION AT THE STRUCTURE	552.50 FEET
LOW ELEVATION OF SUPERSTRUCTURE	527.72 FEET
100-YEAR DISCHARGE	25,800 CFS
100-YEAR HIGH WATER ELEVATION AT THE STRUCTURE	552.50 FEET
APPROACH ROADWAY OVERTOPPING FREQUENCY	>100 YEAR



PROFILE

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CAD DWG FILE: X2408-02-C-PLN-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

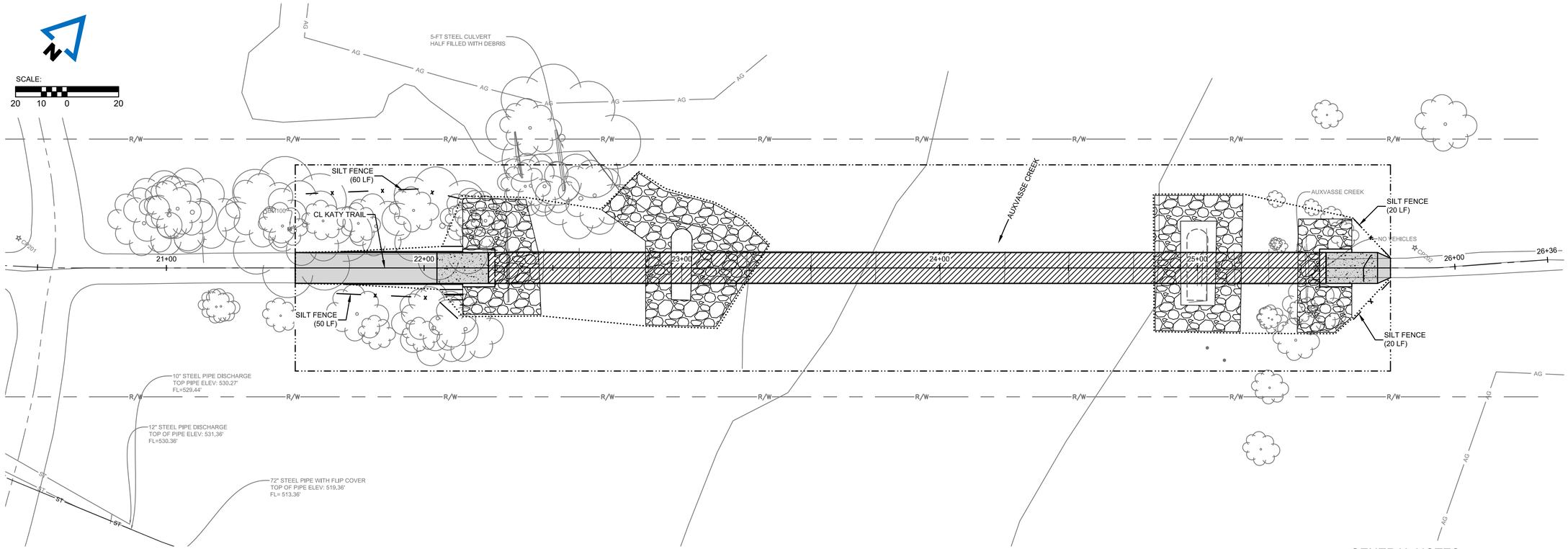
SHEET TITLE:

PLAN AND PROFILE

SHEET NUMBER:

C-101

6 OF 16 SHEETS
DECEMBER 30, 2025

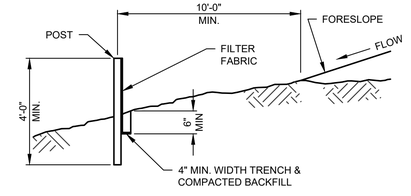


EROSION CONTROL PLAN

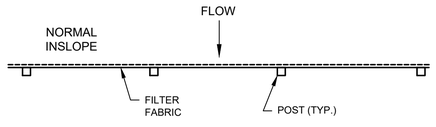
PLAN NOTE:
1. EROSION CONTROL SHOWN PROVIDES FINISH GRADE EROSION CONTROL UNTIL VEGETATION IS ESTABLISHED INSIDE GRADING LIMITS. PAYMENT FOR ADDITIONAL EROSION CONTROL REQUIRED DURING CONSTRUCTION OPERATIONS IS INCIDENTAL TO OTHER BID ITEMS.

GENERAL NOTES:

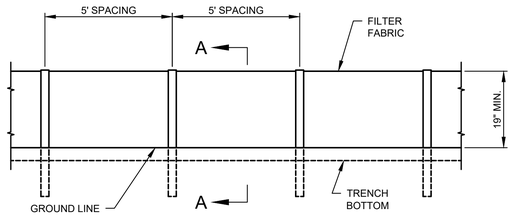
1. ALL CONSTRUCTION ACTIVITY TO REMAIN WITHIN RIGHT OF WAY & CONSTRUCTION LIMITS SHOWN.



SECTION A-A

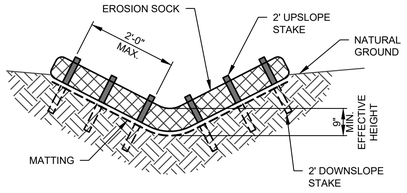


PLAN VIEW



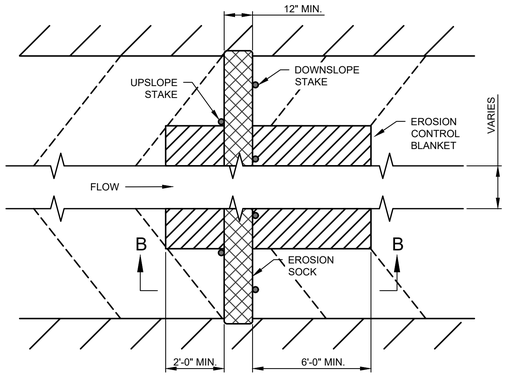
FABRIC SILT FENCE

NOT TO SCALE



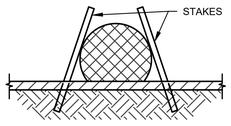
TYPICAL SECTION VEE DITCH

NOT TO SCALE



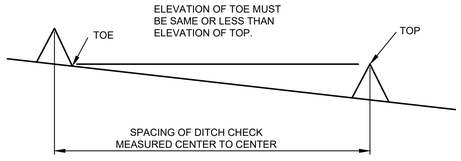
DITCH CHECK
PLAN VIEW

NOT TO SCALE



SECTION B-B

NOT TO SCALE



MINIMUM DITCH CHECK SPACING

NOT TO SCALE

GENERAL NOTES:
1. USE MINIMUM 12 IN. DIAMETER LOG/SOCK.
2. USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
3. INSTALL LOG/SOCK TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND LOG/SOCK AND SCOUR DITCH SLOPES OR AS DIRECTED BY ENGINEER.
4. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE LOG/SOCK TO BOTTOM OF DITCH.
5. EROSION CONTROL BLANKET SHALL BE ANCHORED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
6. OTHER PROPRIETARY DITCH CHECKS MAY BE SUBSTITUTED AS DIRECTED BY THE ENGINEER.
7. INSTALLATION OF PROPRIETARY DITCH CHECKS SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

EXAMPLE
DITCH CHECK SPACING
FOR STANDARD HEIGHTS
(FT.)

DITCH CL SLOPE %	SPACING FOR 9" EFFECTIVE HEIGHT	SPACING FOR 18" EFFECTIVE HEIGHT
0.5	150	300
1.0	75	150
1.5	50	100
2.0	37	75
2.5	30	60
3.0	25	50
3.5	21	43
4.0	19	38
4.5	16	33
5.0	15	30
5.5	13	27
6.0	12	25
6.5	11	23
7.0	10	21
7.5	10	20
8.0	9	19
8.5	9	18
9.0	8	17
9.5	8	16
10.0	7	15

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

REVISION:
DATE:
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DATE:
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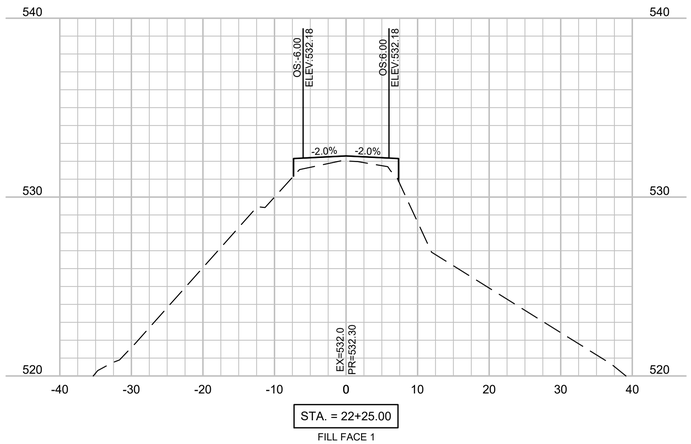
ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-ERC-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

SHEET TITLE:
EROSION CONTROL PLAN

SHEET NUMBER:
C-102

7 OF 16 SHEETS
DECEMBER 30, 2025



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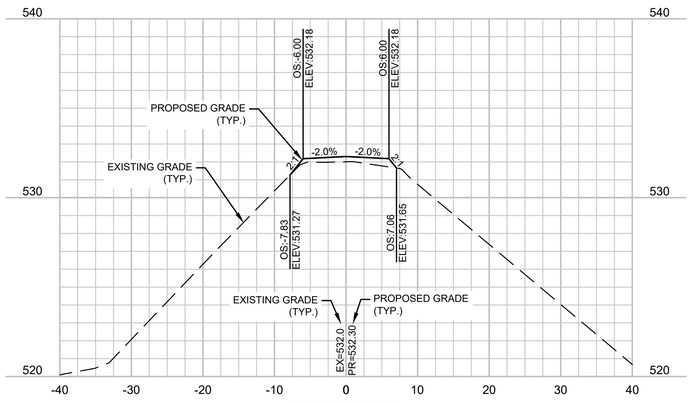

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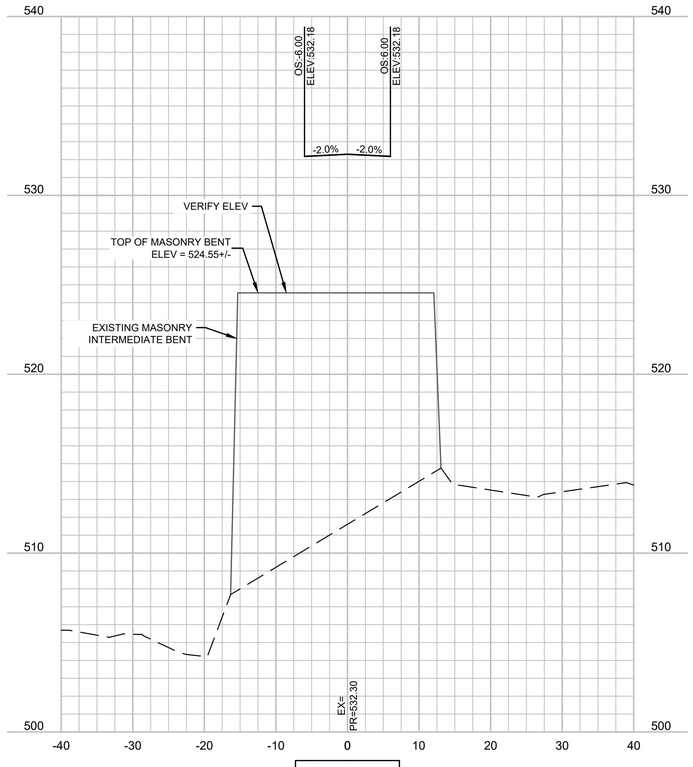

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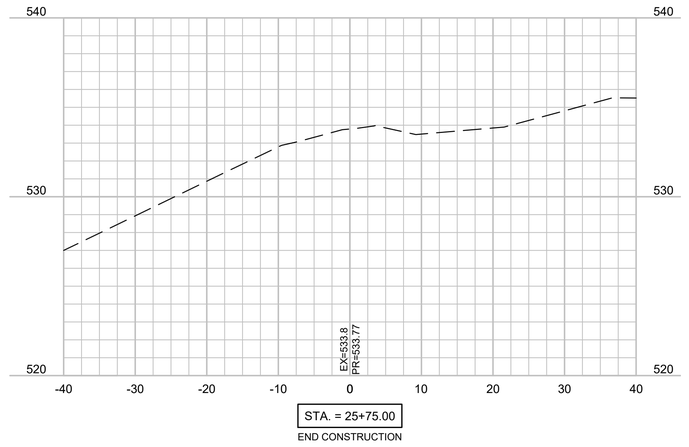
CL EXISTING INTERMEDIATE BENT 2



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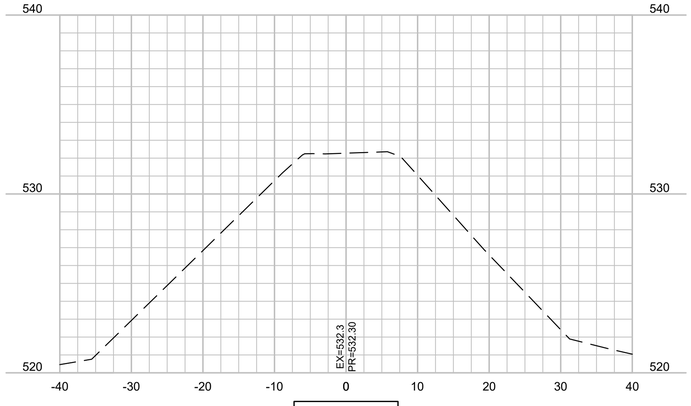
END CONSTRUCTION



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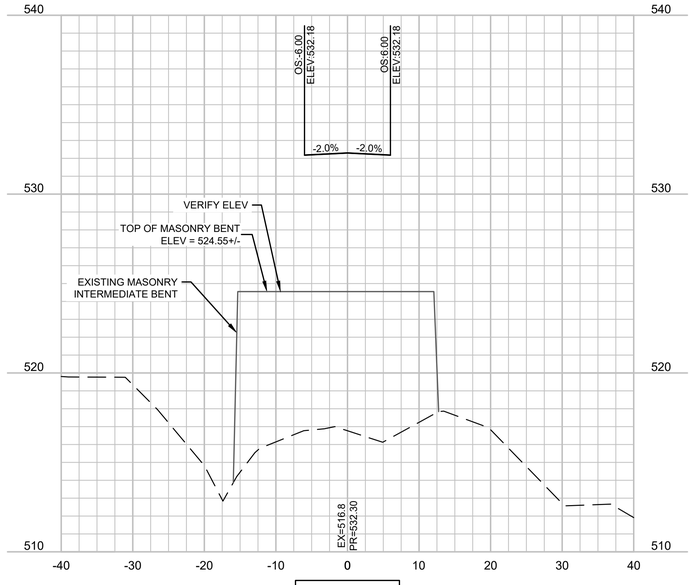

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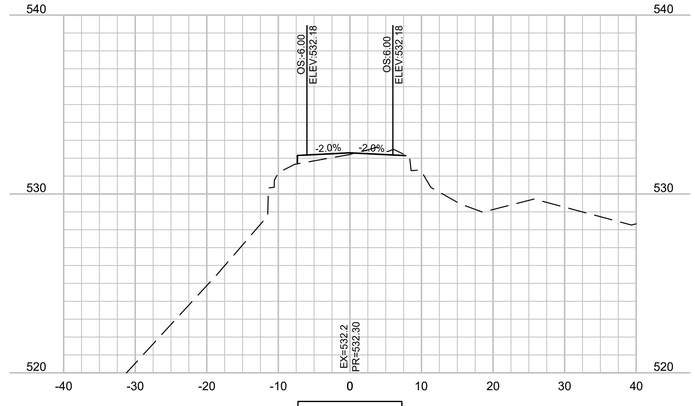
CL EXISTING INTERMEDIATE BENT 1



STA. = 25+50.00

FILL FACE 2

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MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
CHAD W.
MEYER
Chad W Meyer
NUMBER
PE-2020009127
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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-FGR-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

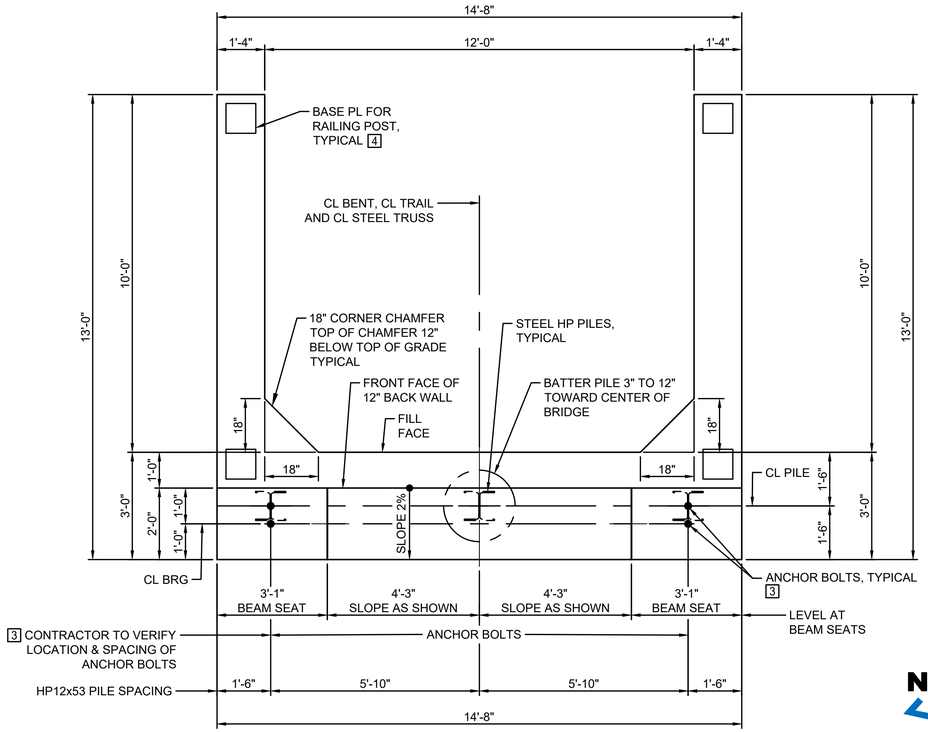
SHEET TITLE:

TRAIL CROSS SECTIONS

SHEET NUMBER:

C-103

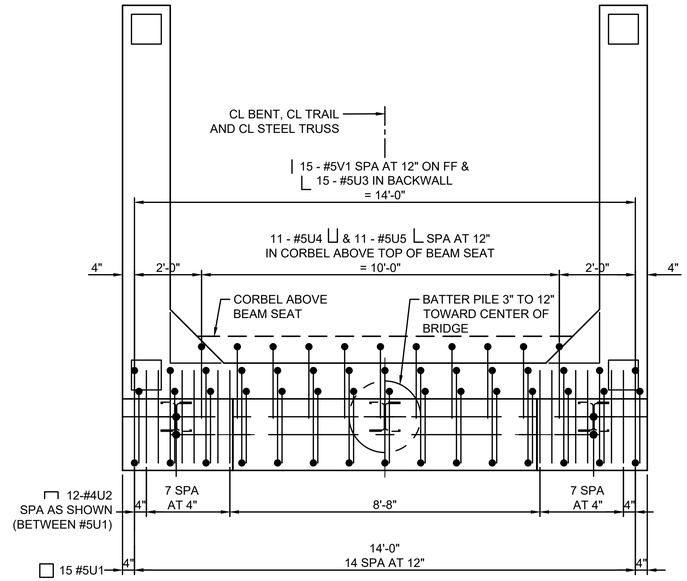
8 OF 16 SHEETS
DECEMBER 30, 2025



PLAN 1 - AT TOP OF BEAM SEAT SHOWING DIMENSIONS

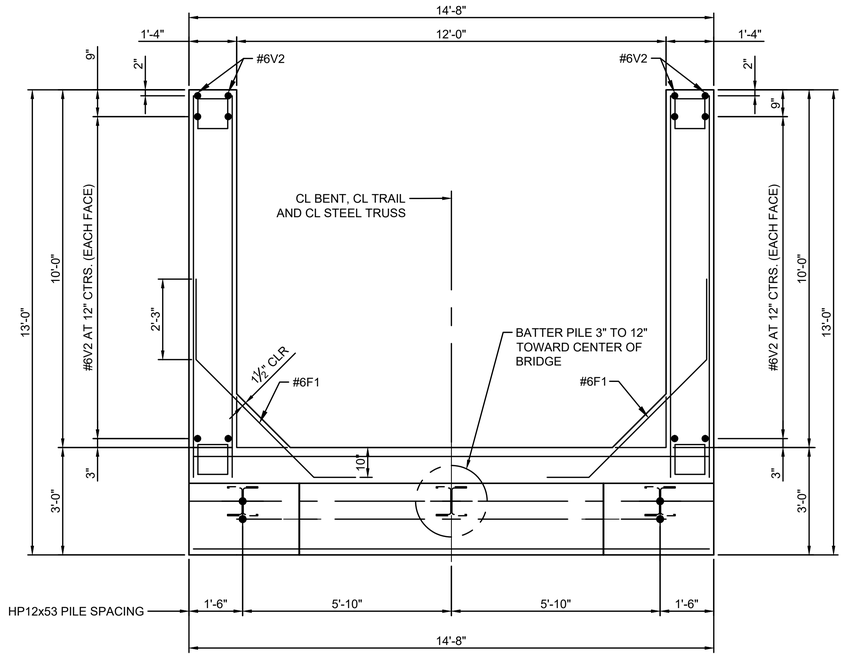
SCALE: ½" = 1'-0"

END BENT 1 END BENT 2



PLAN 2 - AT TOP OF BEAM SEAT SHOWING STIRRUPS & DOWELS

SCALE: ½" = 1'-0"



PLAN 3 - AT TOP OF BEAM SEAT SHOWING PILES & REINFORCING

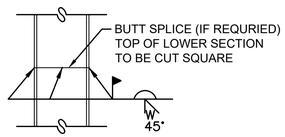
SCALE: ½" = 1'-0"

GENERAL NOTES:

1. SEE SHEET NO. 10 FOR ELEVATION, SECTIONS AND KEY NOTES.
2. CONTRACTOR SHALL VERIFY BEAM SEAT ELEVATION AT EACH BENT WITH REQUIREMENTS OF OF SELECTED PREFABRICATED BRIDGE SUPPLIER AND SHALL ADJUST THE BRIDGE SEAT ELEVATIONS AS REQUIRED TO ACCOMMODATE THE BRIDGE MANUFACTURER. IT MAY BE NECESSARY TO ADJUST LENGTHS OF STEEL REINFORCING STIRRUPS TO ACCOMMODATE AN ADJUSTED SEAT ELEVATION. ALL NECESSARY ADJUSTMENTS SHALL BE MADE PRIOR TO ORDERING OF REINFORCEMENT AND SHALL BE MADE AT NO ADDITIONAL COST.
3. CONTRACTOR SHALL COORDINATE LOCATION OF ANCHOR BOLTS WITH REQUIREMENTS OF SELECTED PREFABRICATED BRIDGE AND COORDINATE LOCATION OF ANCHOR BOLTS WITH REINFORCEMENT IN END BENTS AND SHIFT REINFORCEMENT AS REQUIRED TO INSTALL ANCHOR BOLTS.
4. SEE BILL OF REINFORCING SHEET NO. 11 FOR ESTIMATED STEEL REINFORCEMENT PIECE SIZES & DIMENSIONS.
5. CONTRACTOR SHALL LOCATE NEW PILING AS NECESSARY TO MISS ANY EXISTING TIMBER PILING THAT MAY REMAIN BELOW GRADE. NOTIFY ENGINEER IF PILE IS MOVED 6" OR MORE FROM LOCATION SHOWN ON THE PLANS.

KEY NOTES:

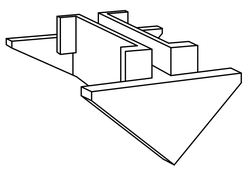
3 FIELD DRILL AND INSTALL ANCHOR BOLTS AFTER BRIDGE IS IN FINAL POSITION. ANCHOR BOLTS SHALL BE INSTALLED ACCORDING TO BRIDGE MANUFACTURER'S SPECIFICATIONS INCLUDING LOCATION, EMBEDMENT AND PROJECTION.



STEEL PILE SPLICE DETAIL

SCALE: NTS

GALVANIZING MATERIAL SHALL BE OMITTED OR REMOVED ONE INCH CLEAR OF WELD LOCATIONS IN ACCORDANCE WITH SPECIFICATION SECTION 316216 IF APPLICABLE.



THE PILE POINT SHALL BE A ONE-PIECE UNIT OF CAST STEEL. THE CUTTING EDGES SHALL BE HARDENED. THE PILE POINT SHALL BE DESIGNED TO PENETRATE BOULDERS WITHOUT INJURY TO THE PILE. THE PILE POINTS SHALL BE WELDED, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, TO EACH STEEL PILE AT THE ABUTMENTS BEFORE DRIVING. TOTAL OF 3 REQUIRED EACH BENT, TOTAL OF 6 FOR HIGHWAY AA BRIDGE ONLY. TIPS NOT REQUIRED AT AUXVASSE CREEK BRIDGE.

CAST STEEL PILE POINT

NOT TO SCALE

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-S-ABT-01
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

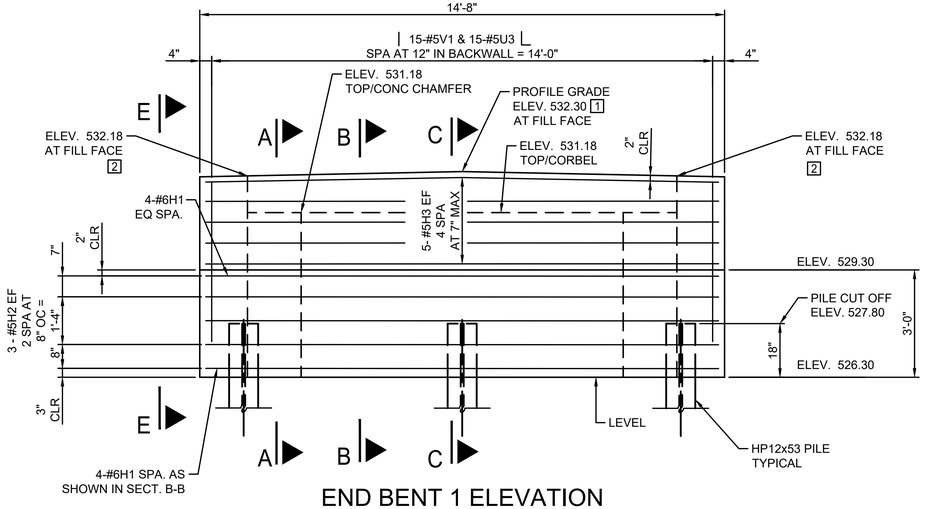
SHEET TITLE:

END BENT PLAN & DETAILS

SHEET NUMBER:

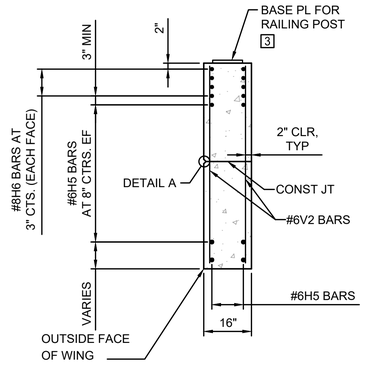
S-201

9 OF 16 SHEETS
DECEMBER 30, 2025



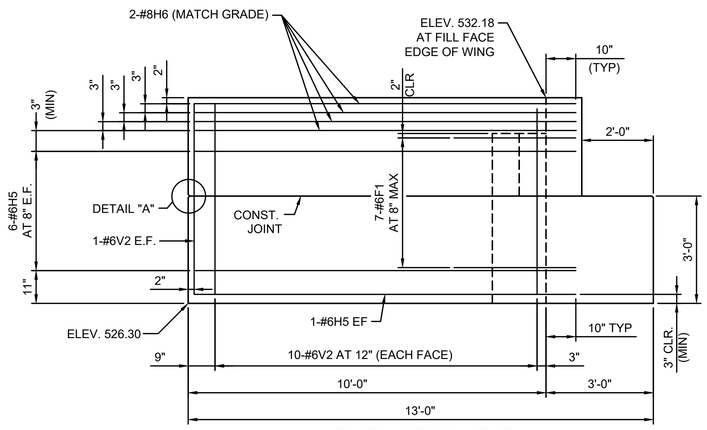
END BENT 1 ELEVATION

SCALE: ½" = 1'-0"



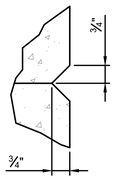
TYPICAL SECTION THRU WING

NOT TO SCALE



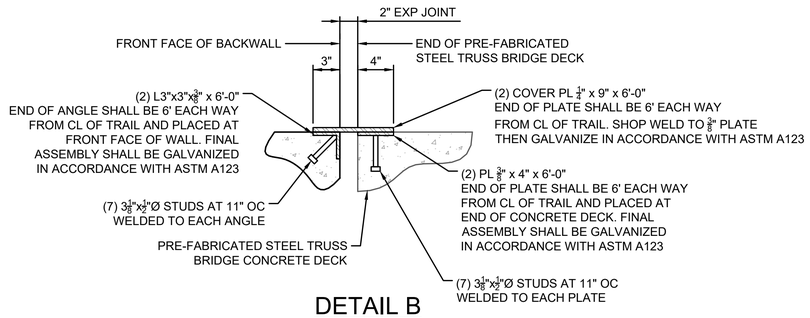
ELEVATION E-E

SCALE: 1/2"=1'-0"



DETAIL A

SCALE: NTS



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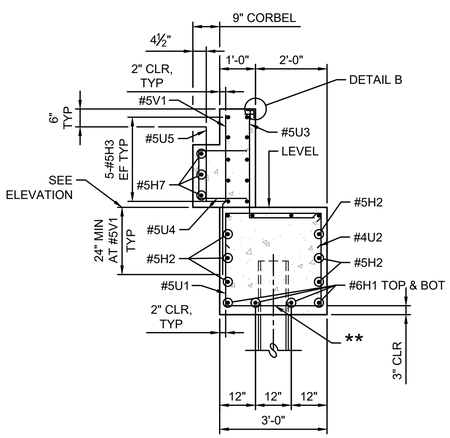
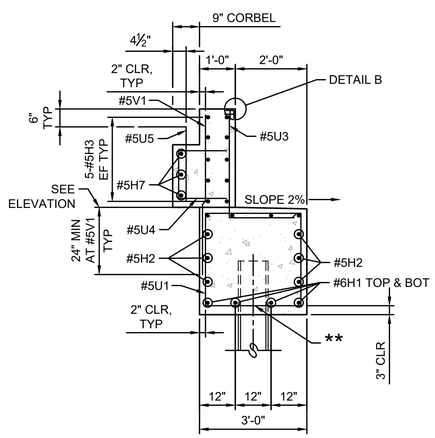


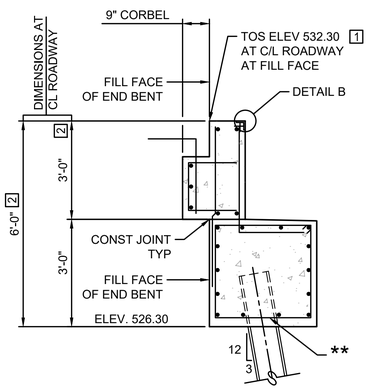
SECTION A-A

AT BEAM SEATS



SECTION B-B

BETWEEN BEAM SEATS



SECTION C-C

DIMENSIONS AT C/L

KEY NOTES:

[1] TOP OF END BENT BACKWALL AND SLOPE OF BACKWALL MUST MATCH TOP OF CONCRETE BRIDGE DECK. SEE "CROWN DETAIL" ON D-001

[2] HEIGHT OF BACKWALL AND TOP OF CONCRETE AT BRIDGE SEAT ARE BASED ON PRELIMINARY BRIDGE INFORMATION. THE CONTRACTOR SHALL BASE THEIR BID ON THE DIMENSIONS SHOWN AND ALLOW FOR POSSIBLE VARIATION IN THE BACKWALL HEIGHT AND BEAM SEAT ELEVATION TO ACCOMMODATE THE REQUIREMENTS OF THE ACTUAL PREFABRICATED BRIDGE TO BE SUPPLIED. THE BRIDGE MANUFACTURER AND CONTRACTOR SHALL PROVIDE EXACT HEIGHT REQUIREMENTS WITH FINAL BRIDGE DETAILS AND DESIGN TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

[3] SIZE AND PLACEMENT OF THE BASE PLATES SHALL ACCOMMODATE THE SEPARATE 10'-0" LONG HANDRAIL SECTION PROVIDED BY THE PEDESTRIAN BRIDGE MANUFACTURER THAT IS MOUNTED TO THE TOP OF THE END BENT WING WALL. THE ATTACHMENT METHOD OF THE HANDRAIL SHALL BE DETERMINED AND PROVIDED BY THE BRIDGE MANUFACTURER. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE ATTACHMENT METHOD TO THE CONCRETE WINGWALL TO BE APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT BID.

NOTE:
**:CUT BOTTOM LEG OF STIRRUP (2" MAX CLEARANCE) AT PILE LOCATIONS.

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

REVISION:
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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-S-ABE-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

SHEET TITLE:

END BENT ELEVATION
& SECTIONS

SHEET NUMBER:

S-202

10 OF 16 SHEETS
DECEMBER 30, 2025

AUXVASSE CREEK BRIDGE - BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE	MARK NO. MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	Incr. (inches)	DIMENSIONS B FT.	B IN	C FT.	C IN	D FT.	D IN	E FT.	E IN	F FT.	F IN	H FT.	H IN	K FT.	K IN	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
			END BENT NO. 1																								
8	6	H1	BEAM		20						14	4.000													14' 4"	14' 4"	173
6	5	H2	BEAM		20						14	4.000													14' 4"	14' 4"	90
10	5	H3	BACKWALL		20						14	4.000													14' 4"	14' 4"	150
28	6	H5	WINGS		20						10	8.000													10' 8"	10' 8"	449
16	8	H6	WINGS		20						10	8.000													10' 8"	10' 8"	456
3	5	H7	CORBEL		20						10	4.000													10' 4"	10' 4"	33
14	6	F1	BM/BKWL/WNGS		25						2	3.000	4	7.875	1	2.000					3	3.500	3	3.500	8' 1"	8' 0"	169
15	5	U1	BEAM		13	S					2	8.000	2	6.500	2	8.000	2	6.500							11' 4"	11' 0"	173
12	4	U2	BEAM		10	S							0	10.000	2	8.000									4' 4"	4' 2"	34
15	5	U3	BEAM/BKWL		19						3	0.000	2	0.000											5' 0"	4' 11"	77
11	5	U4	CORBEL		10	S							1	5.000	1	6.000									4' 4"	4' 4"	50
11	5	U5	CORBEL		19						2	2.000	2	2.000											4' 4"	4' 4"	50
15	5	V1	BEAM/BKWL		20						4	5.000													4' 5"	4' 5"	70
44	6	V2	WINGS		20						5	4.000													5' 4"	5' 4"	346
																										SUBTOTAL	**2320**
			END BENT NO. 2																								
8	6	H1	BEAM		20						14	4.000													14' 4"	14' 4"	173
6	5	H2	BEAM		20						14	4.000													14' 4"	14' 4"	90
10	5	H3	BACKWALL		20						14	4.000													14' 4"	14' 4"	150
28	6	H5	WINGS		20						10	8.000													10' 8"	10' 8"	449
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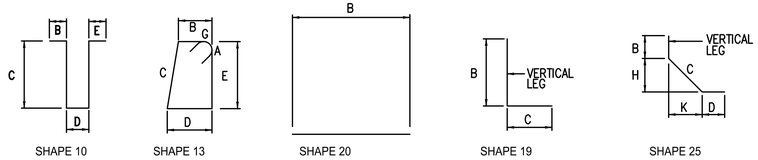
14	6	F1	BM/BKWL/WNGS		25						2	3.000	4	7.875	1	2.000					3	3.500	3	3.500	8' 1"	8' 0"	169
15	5	U1	BEAM		13	S					2	8.000	2	6.500	2	8.000	2	6.500							11' 4"	11' 0"	173
12	4	U2	BEAM		10	S							0	10.000	2	8.000									4' 4"	4' 2"	34
15	5	U3	BEAM/BKWL		19						3	0.000	2	0.000											5' 0"	4' 11"	77
11	5	U4	CORBEL		10	S							1	5.000	1	6.000									4' 4"	4' 4"	50
11	5	U5	CORBEL		19						2	2.000	2	2.000											4' 4"	4' 4"	50
15	5	V1	BEAM/BKWL		20						4	5.000													4' 5"	4' 5"	70
44	6	V2	WINGS		20						5	4.000													5' 4"	5' 4"	346
																										SUBTOTAL	**2320**
																										TOTAL	**4640**

NOTES:
1. ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS
2. NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
3. ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
4. LENGTH OF SERIES BARS REPRESENTS THE AVERAGE LENGTH OF BARS IN THE SERIES TO THE NEAREST INCH.
5. REINFORCING STEEL (GRADE 60) Fy = 60,000 PSI.
6. REINFORCING WEIGHT SHOWN ON THIS SHEET IS ACTUAL WEIGHT. WEIGHT SHOWN IN THE TABLE OF ESTIMATED QUANTITIES IS ROUNDED TO THE NEAREST 10 LBS.
7. STEEL BILL OF MATERIAL IS AN ESTIMATED QUANTITY LIST TO ASSIST CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ACTUAL QUANTITIES. IF ANY STEEL QUANTITY DIFFERS, CONTACT ENGINEER PRIOR TO PLACEMENT.

ABBREVIATIONS:
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.



BENDING DIAGRAMS

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-S-BRS-01
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

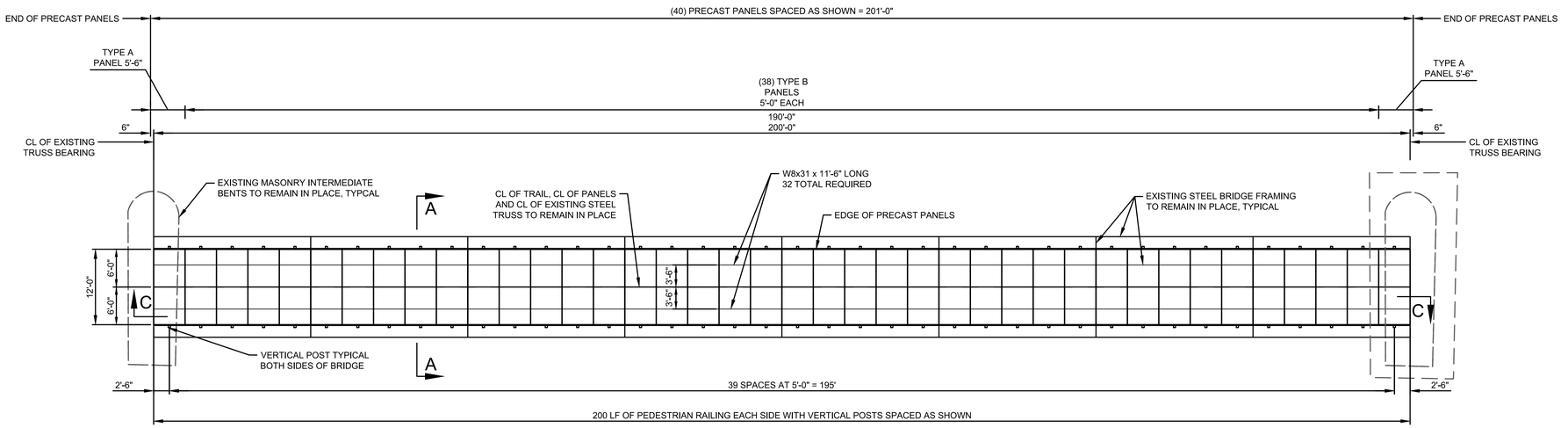
SHEET TITLE:

BILL OF REINFORCING

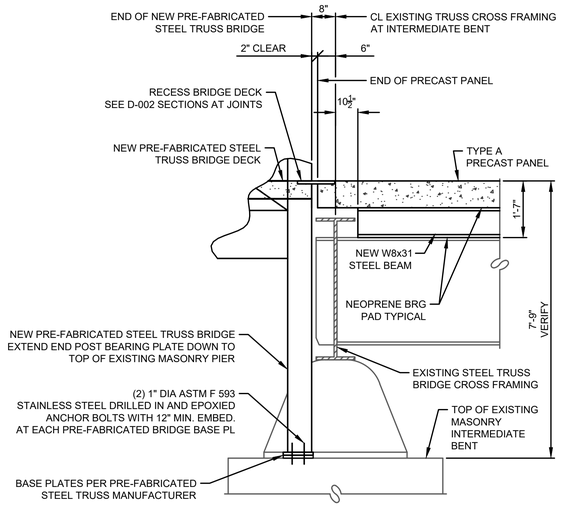
SHEET NUMBER:

S-203

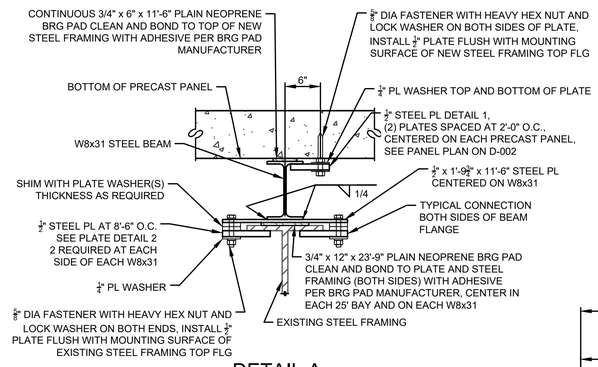
11 OF 16 SHEETS
DECEMBER 30, 2025



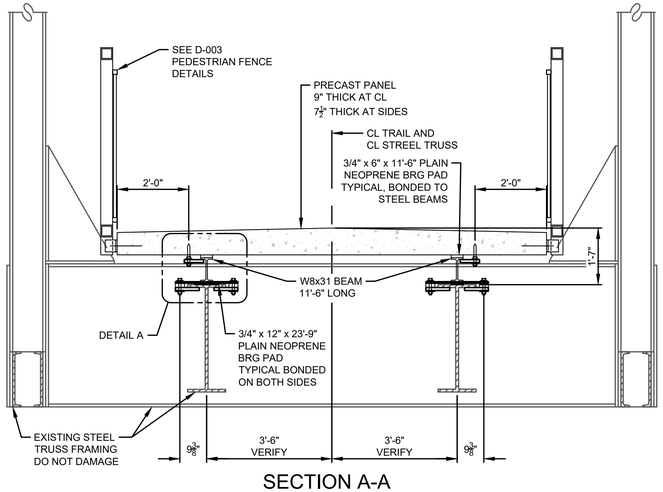
PRECAST PANEL & STEEL FRAMING PLAN



SECTION C



DETAIL A



SECTION A-A
PRECAST PANEL & STEEL FRAMING

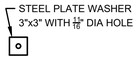


PLATE WASHER DETAIL

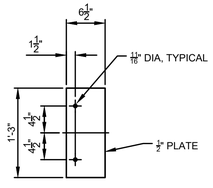
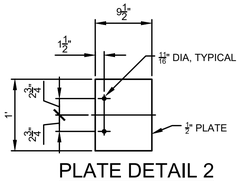


PLATE DETAIL 1



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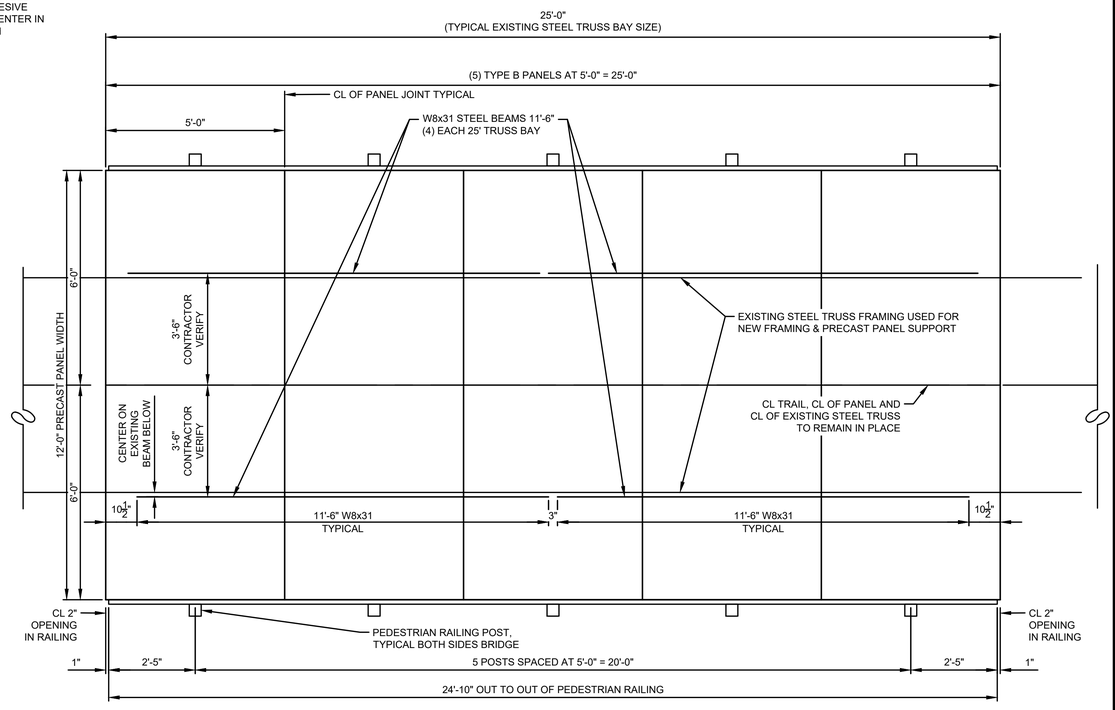
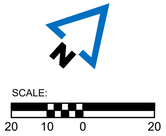


ENLARGED 25' BAY OF PRECAST PANELS & STEEL FRAMING



GENERAL NOTES:

1. PRECAST PANELS AND STEEL BEAMS MAY REQUIRE TO BE SET IN PLACE BY FORK LIFT EQUIPMENT.
2. VERY LIMITED OVERHEAD CRANE ACCESS DUE TO EXISTING STEEL OVERHEAD TRUSS FRAMING TO REMAIN IN PLACE.
3. DO NOT DAMAGE ANY EXISTING STEEL TRUSS FRAMING DURING PRECAST PANEL OR STEEL BEAM INSTALLATION. ANY ACCIDENTAL DAMAGES SHALL BE REPORTED TO OWNER/ENGINEER IMMEDIATELY UPON OCCURRENCE.
4. TYPE 3 A325 BOLTS
5. 60 DUROMETER NEOPRENE BEARING PADS

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REPLACE
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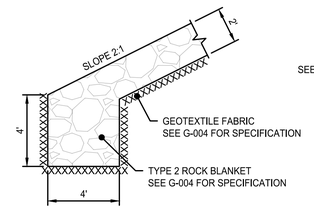
ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-S-PLN-02
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

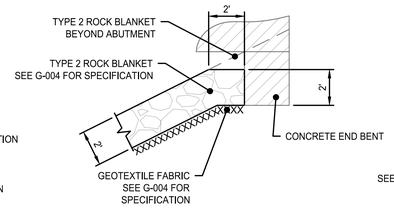
SHEET TITLE:
PRECAST PANEL PLAN

SHEET NUMBER:
S-204

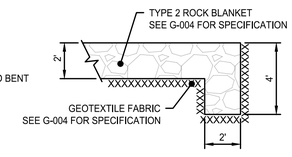
12 OF 16 SHEETS
DECEMBER 30, 2025



TYPICAL ROCK BLANKET SECTION
AT BOTTOM OF SLOPE



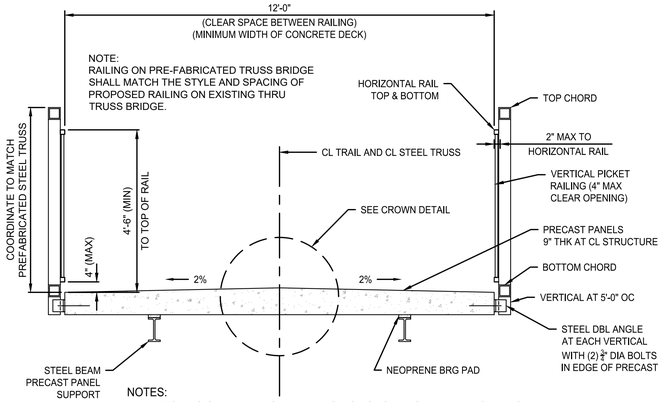
TYPICAL ROCK BLANKET SECTION
ALONG ABUTMENT AT TOP OF SLOPE



TYPICAL ROCK BLANKET SECTION
AT SIDES OF SLOPE

1 TYPICAL ROCK BLANKET SECTIONS

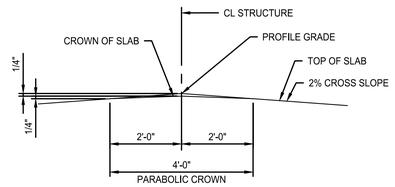
NOT TO SCALE



NOTES:
1. EXISTING STEEL BRIDGE FRAMING NOT SHOWN, SEE DETAIL SHEETS.
2. VERTICAL POST, TOP CHORD AND BOTTOM CHORD TO BE HSS4x4x1/4.

3 TYPICAL PRECAST PANEL BRIDGE SECTION

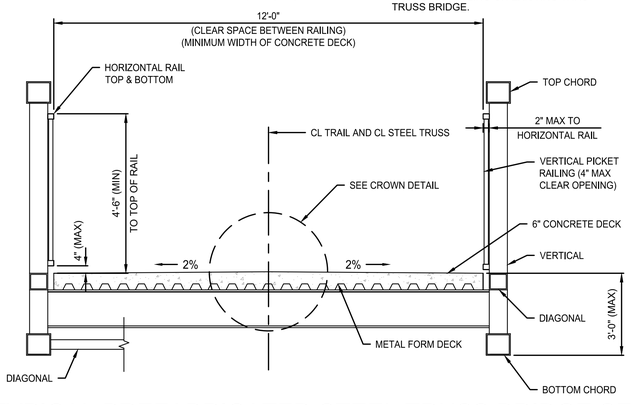
NOT TO SCALE



CROWN DETAIL

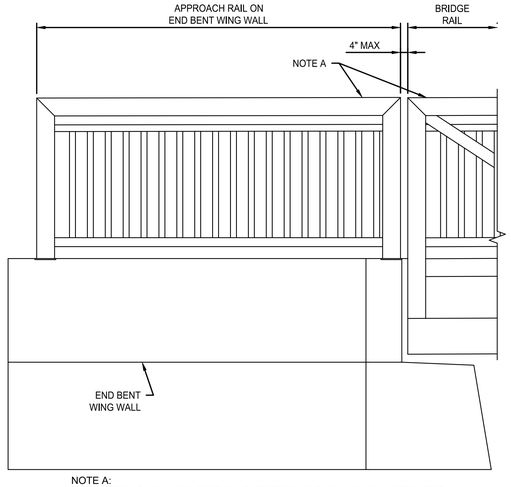
NOT TO SCALE

NOTE:
RAILING ON PRE-FABRICATED TRUSS BRIDGE SHALL MATCH THE STYLE AND SPACING OF PROPOSED RAILING ON EXISTING THRU TRUSS BRIDGE.



4 TYPICAL PREFABRICATED STEEL TRUSS BRIDGE SECTION

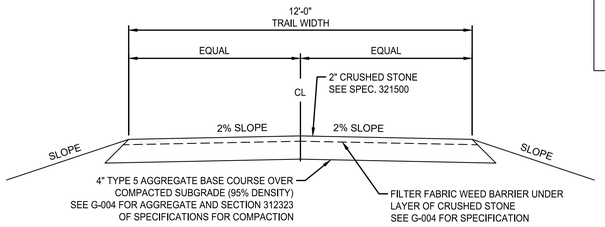
NOT TO SCALE



NOTE A:
THE APPROACH RAILING ON THE ABUTMENT WINGWALL SHALL MATCH THE STYLE AND SPACING OF THE RAILING ON THE BRIDGE. THE END POSTS AND TOP RAIL SHALL MATCH THE SIZE OF THE BRIDGE END POST AND TOP CHORD.

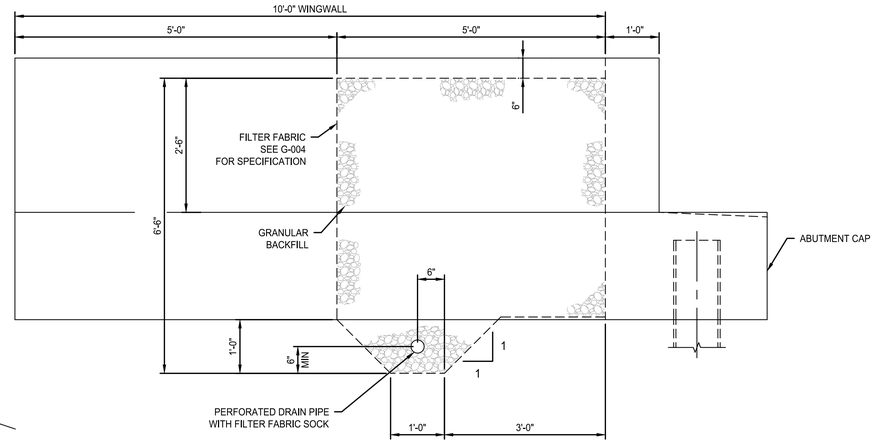
5 END BENT APPROACH RAIL ELEVATION VIEW

NOT TO SCALE



2 TYPICAL TRAIL SECTION

NOT TO SCALE



6 ABUTMENT DRAIN PIPE ELEVATION

NOT TO SCALE

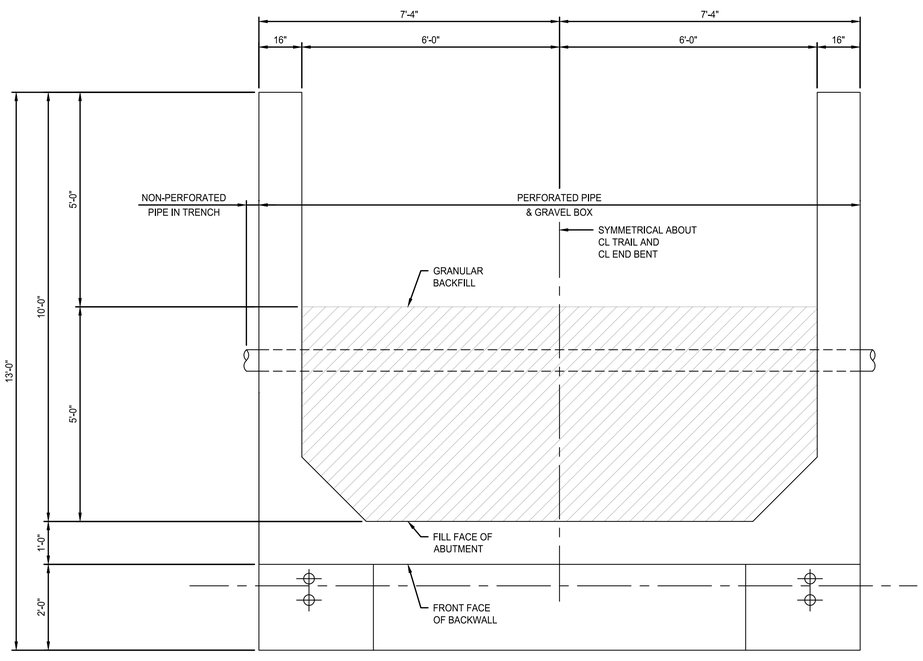
NOTE A:
DRAIN PIPE MAY BE EITHER 4" DIAMETER CORRUGATED POLYVINYL CHLORIDE (PVC) DRAIN PIPE, OR 4" DIAMETER CORRUGATED POLYETHYLENE (PE) DRAIN PIPE WITH FILTER FABRIC SOCK.

PLACE DRAIN PIPE BEHIND CAP AS SHOWN AND SLOPE TO LOWEST GRADE OF GROUND LINE BEYOND LIMITS OF END BENT AND ROCK BLANKET.

PERFORATED DRAIN PIPE SHALL BE USED BEHIND CAP WITHIN LIMITS OF END BENT. PLAIN PIPE SHALL BE USED OUTSIDE LIMITS OF END BENT TO EXIT AT GROUND LINE.

GRANULAR BACKFILL
THE GRANULAR BACKFILL SHALL BE GRAVEL, CRUSHED STONE, OR OTHER APPROVED MATERIAL, IN ACCORDANCE WITH THE FOLLOWING GRADATION REQUIREMENTS:

GRANULAR BACKFILL REQUIREMENTS	
SIEVE SIZE	PERCENT BY WEIGHT (MASS)
1-INCH	100
3/4-INCH	90-100
3/8-INCH	20-55
NO. 4	0-10
NO. 8	0-5



7 ABUTMENT DRAIN PIPE PLAN

NOT TO SCALE

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MIKE KEHOE,
GOVERNOR

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REPLACE
AUXVASSE CREEK BRIDGE

MP122.1
KATY TRAIL STATE PARK

PROJECT NO. X2408-02
SITE NO. 5501
ASSET NO. 7815501013

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ISSUE DATE: 12/30/2025

CAD DWG FILE: X2408-02-C-DTL-01
DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

SHEET TITLE:
TYPICAL DETAILS

SHEET NUMBER:
D-001

13 OF 16 SHEETS
DECEMBER 30, 2025

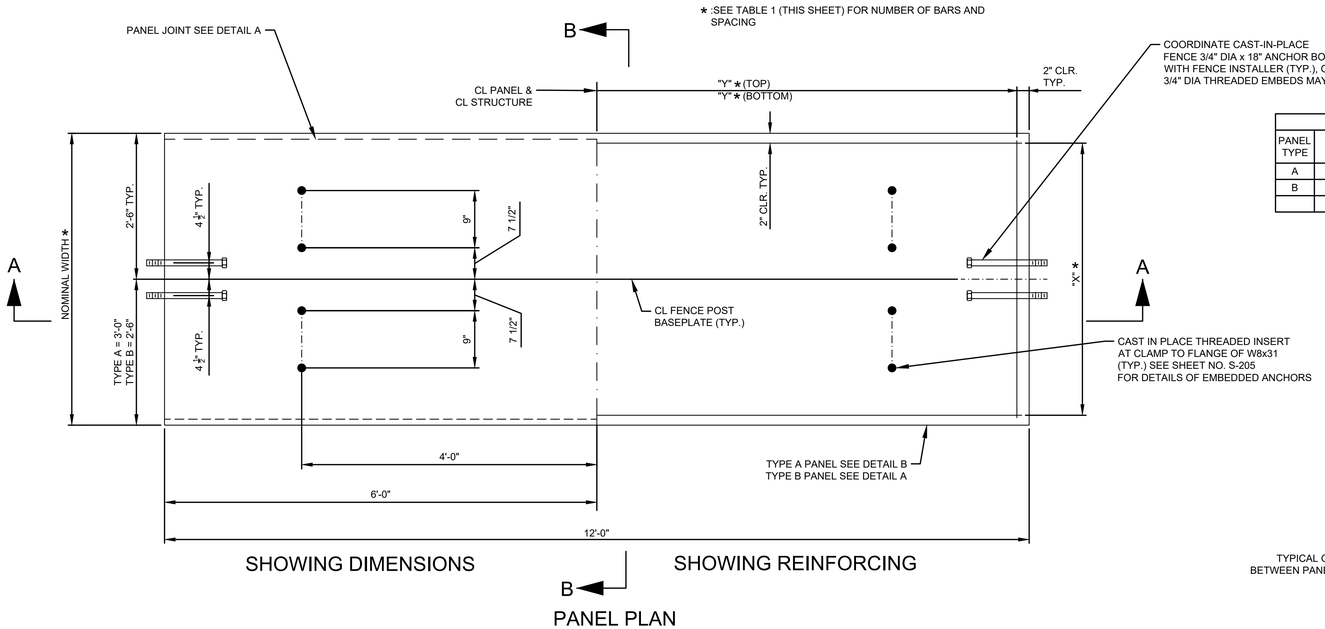
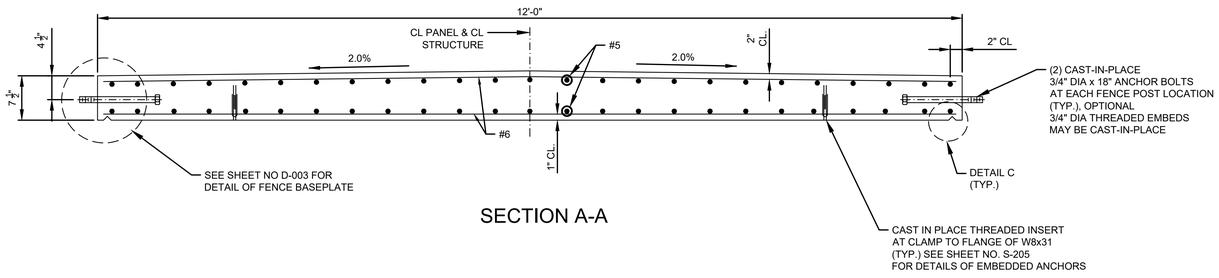
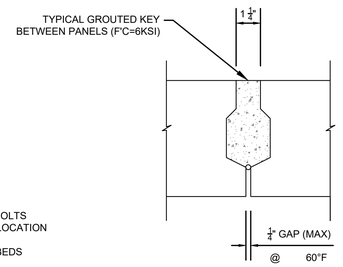


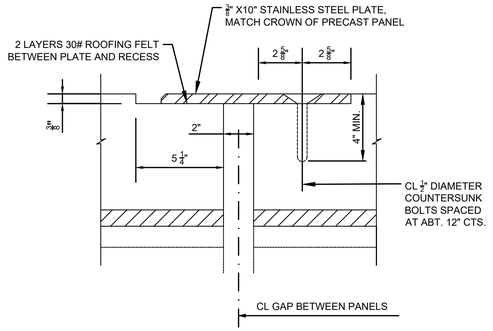
TABLE 1. PRECAST DECK PANEL DIMENSIONS & REINFORCING				
PANEL TYPE	# REQ	NOM. WIDTH	"X"	"Y"
A	2	5'-6"	12 - #6 SPA. @ ABT. 6" CTS.	25 - #5 SPA. @ ABT. 6" CTS.
B	38	5'-0"	11 - #6 SPA. @ ABT. 6" CTS.	25 - #5 SPA. @ ABT. 6" CTS.



SECTION A-A



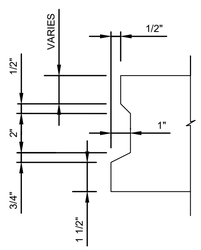
TYPICAL PANEL JOINT (SEE DETAIL A)



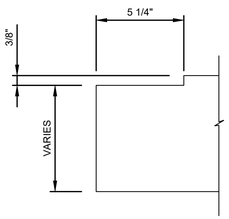
TYPICAL EXPANSION JOINT (SEE DETAIL B)

SECTIONS AT JOINTS

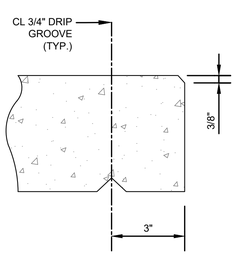
NOTES:
1. NOMINAL WIDTH SHALL BE MEASURED FROM THE CENTERLINE GAPS OF GROUTED KEY ON ADJACENT PANELS, OR TO EXTERIOR FACE OF PANELS AT JOINT LOCATIONS. CONTRACTOR TO VERIFY REQUIRED PANEL DIMENSIONS.
2. FABRICATOR SHALL DESIGN AND PROVIDE LIFTING LOOPS FOR EACH PRECAST CONCRETE DECK PANEL.
3. AFTER DECK PLACEMENT, LIFTING LOOPS SHALL BE CUT OFF AND ANY CAVITIES BE GROUTED FLUSH WITH SURFACE OF DECK PATTERN.
4. FOR DETAILS OF PANEL PADS AND CONNECTION PLATES SEE SHEET S-205.
5. TOP OF SLAB SHALL HAVE A BROOMED FINISH.
6. OPTIONAL THREADED INSERTS AT FENCE POST ANCHOR BOLTS MUST BE OF EQUIVALENT STRENGTH AS ANCHOR BOLTS SHOWN.
7. SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR FOR REVIEW AND APPROVAL OF THE ENGINEER.



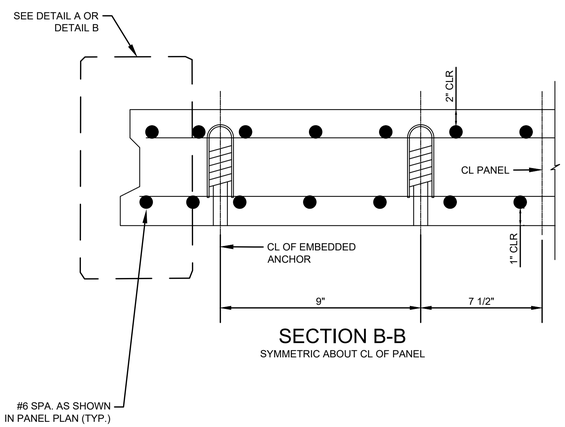
DETAIL A



DETAIL B



DETAIL C



SECTION B-B
SYMMETRIC ABOUT CL OF PANEL

NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS

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DRAWN BY: JJB
CHECKED BY: CWM
DESIGNED BY: ADM

SHEET TITLE:

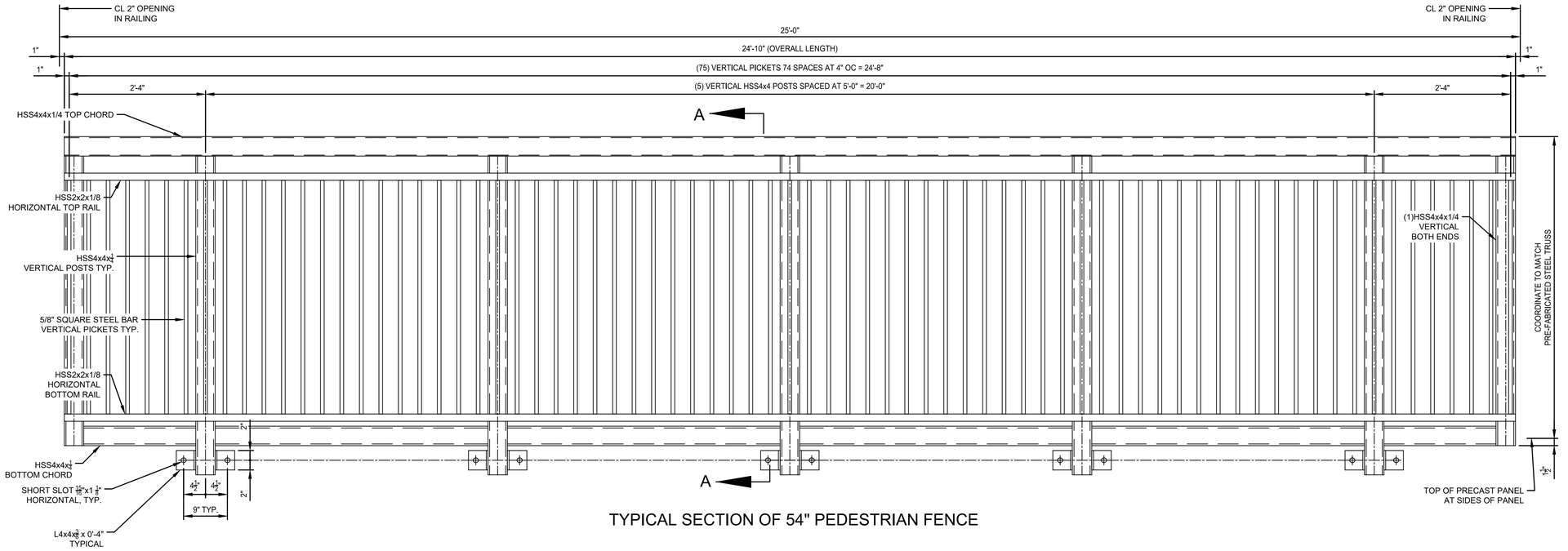
PRECAST DECK PANEL DETAILS

SHEET NUMBER:

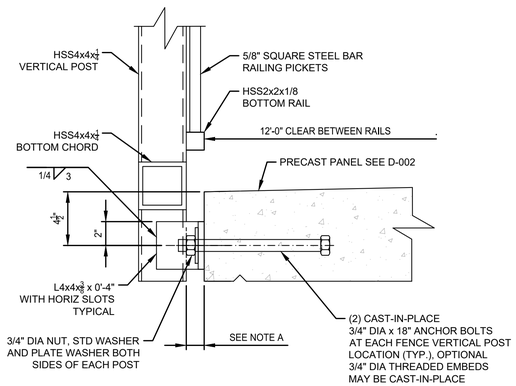
D-002

14 OF 16 SHEETS
DECEMBER 30, 2025

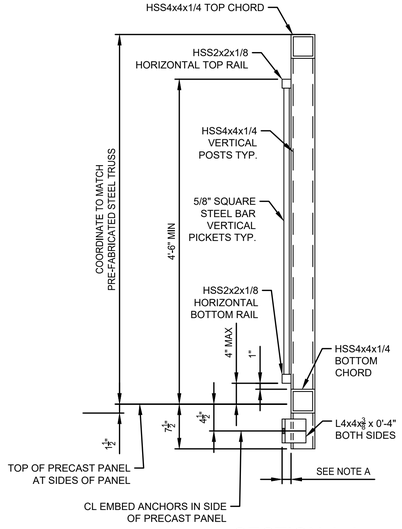
NOTE: THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.



TYPICAL SECTION OF 54" PEDESTRIAN FENCE



BASEPLATE CONNECTION DETAIL



SECTION A-A

NOTE A: COORDINATE DIMENSION FOR TOP AND BOTTOM RAIL TO PROVIDE 12'-0" CLEAR BETWEEN RAILS.

NOTES:
FOR LOCATIONS OF FENCE POSTS SEE SHEET NO S-205.

FOR ROLLED STRUCTURAL SHAPES, PLATES AND SOLID BARS USE ASTM A588, GRADE 50W STEEL

FOR HSS SHAPES USE ASTM A847, GRADE 50W STEEL

ALL WELDS SHALL HAVE CORROSION RESISTANCE AND WEATHERING CHARACTERISTICS COMPATIBLE WITH THE BASE MATERIAL.

AT END BAYS EXTEND TOP AND BOTTOM RAILS AND PICKETS TO PROVIDE 4" MAX CLEARANCE TO END OF PRE-FABRICATED STEEL TRUSS BRIDGE RAILS.

CONTRACTOR TO COORDINATE ALL REQUIRED DIMENSIONS TO PROVIDE FLUSH FIT OF RAILS WITH RAILS ON PRE-FABRICATED STEEL TRUSS BRIDGE.

CAP BOTH ENDS OF ALL HORIZONTAL MEMBERS WITH 1/8" STEEL PLATE.

PROVIDE 1/8" FILLET WELD ALL AROUND AT ALL PICKET-RAIL CONNECTIONS.

PROVIDE FLARE-BEVEL-GROOVE WELD FOR ALL HSS TO HSS MEMBER CONNECTIONS.

PROVIDE VENT HOLES IN ALL CLOSED HSS MEMBERS AT 10' O.C. MAXIMUM.

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DRAWN BY: JJB
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DESIGNED BY: ADM

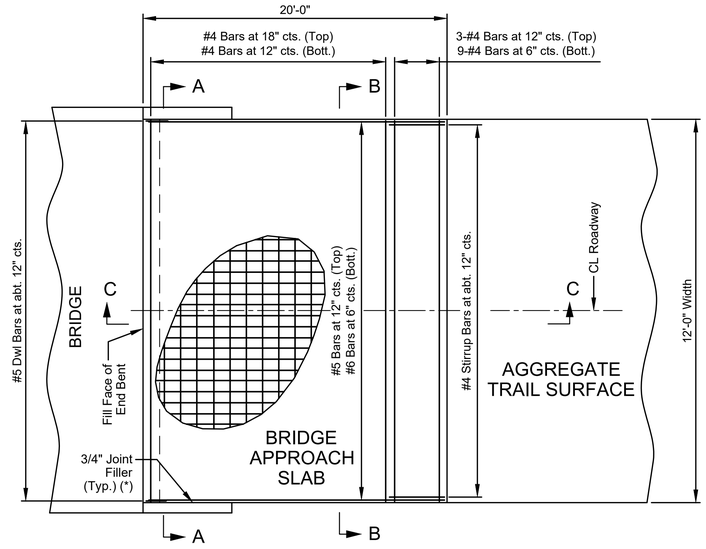
SHEET TITLE:

PEDESTRIAN FENCE DETAILS

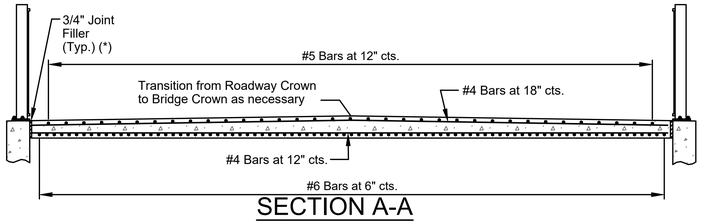
SHEET NUMBER:

D-003

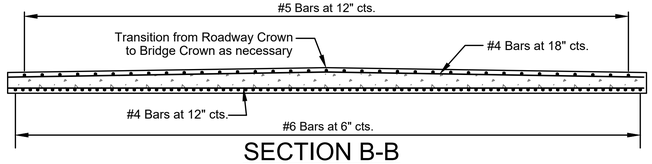
15 OF 16 SHEETS
DECEMBER 30, 2025



PART PLAN SHOWING REINFORCEMENT

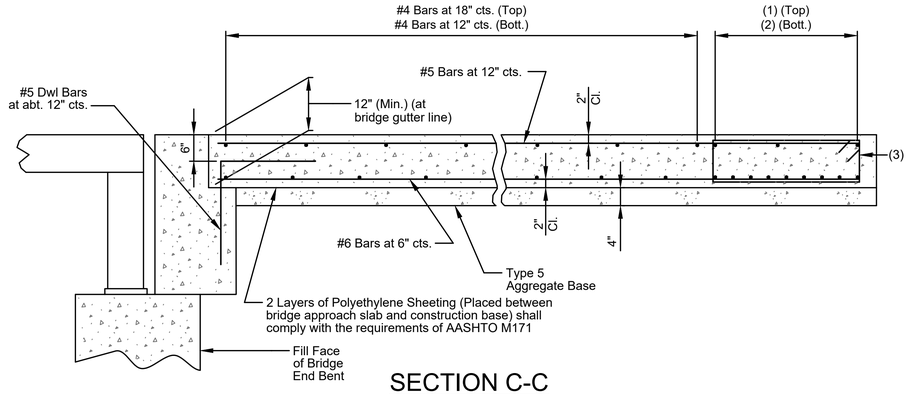


SECTION A-A



SECTION B-B

Note: With the approval of the engineer, the contractor may crown the bottom of the approach slab to match the crown of the roadway surface.

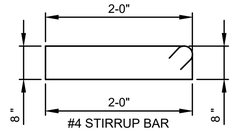


SECTION C-C

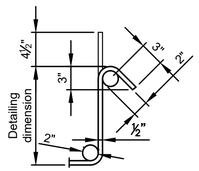
(1) 3-#4 Bars

(2) 9-#4 Bars

(3) #4 Stirrup Bars at abt. 12" cts.; Stirrup height (8") and actual length may vary due to crown.



#4 STIRRUP BAR (ACTUAL LENGTH = 5-10")



TYPICAL 135° STIRRUP HOOK DIMENSIONS BENDING DIAGRAM

Note:
Nominal lengths are based on out to out dimensions shown in bending diagram and are listed for fabricators use (nearest inch).

NOTE: THIS IS A STANDARD MoDOT DRAWING. CERTAIN PORTIONS OF THIS SHEET MAY NOT MATCH ACTUAL PROJECT CONDITIONS.

BRIDGE APPROACH SLAB

Note: This drawing is not to scale. Follow dimensions.

GENERAL NOTES

All concrete for the modified bridge approach slab shall be in accordance with Sec 503 ($f'c$ = 4,000 psi).

All joint filler shall be in accordance with Sec 1057 for preformed fiber expansion joint filler, except as noted.

The reinforcing steel in the modified bridge approach slab shall be Grade 60 with Fy = 60,000 psi, except as shown.

Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

The reinforcing steel in the modified bridge approach slab shall be continuous. The transverse reinforcing steel may be made continuous by lap splicing the bars 23" min.

Plain or deformed welded wire fabric of some strength and area per foot of slab may be substituted with the approval of the engineer. Sheets of WWF shall be lapped in accordance with CRSI.

Mechanical bar splices shall be in accordance with Sec 706.

The contractor shall pour and satisfactorily finish the bridge backwall before pouring the bridge approach slabs.

Longitudinal construction joints in approach slab shall be aligned with longitudinal construction joints in bridge or semi-deep slab.

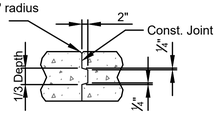
At the contractor's option, Grade 40 reinforcement may be substituted for the Grade 60 #5 dowel bars connecting the modified bridge approach slab to the bridge abutment. No additional payment will be made for this substitution.

When Grade 40 reinforcement is substituted for the Grade 60 #5 dowel bars connecting the modified bridge approach slab to the bridge abutment, the reinforcement may be bent up to 90 degrees with a 2" minimum radius near the abutment to allow compaction of the backfill material near the abutment. Damage to epoxy coating shall be repaired in accordance with Sec 710.

* Seal joint between vertical face of modified bridge approach slab and wing with "Silicone Joint Sealant for Saw Cut and Formed Joints" in accordance with Sec 717.

Reinforcement, Type 5 Aggregate base and other necessary items for installation shall be included in the installation of the "Bridge Approach Slab".

Finish each side of joint with 1/4" radius edging tool



CONST. JOINT DETAIL

(IF REQUIRED)

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BRIDGE APPROACH SLAB DETAILS

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