

OWNER

CITY OF RAVENSWOOD
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PROJECT OVERVIEW

BASE BID: REFER TO ALL OTHER ASSOCIATED STRUCTURAL, CIVIL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

- A. DESIGN, LABOR, MATERIAL, AND DELIVERY ASSOCIATED WITH BRIDGE STRUCTURE, SUBSTRUCTURE, AND SUPERSTRUCTURE.
- B. ESTABLISH ELECTRICAL SERVICE AND PROVIDE LIGHTING FOR BRIDGE AS NOTED ON ELECTRICAL PLANS.
- C. CUT/FILL AS REQUIRED TO INSTALL PEDESTRIAN BRIDGE AND FILL AT 3:1 TO EXISTING GRADE FROM EDGE OF APPROACH SLAB AS NOTED ON CIVIL PLANS (ASSOCIATED EROSION AND SEDIMENT CONTROL TO BE INCLUDED).
- D. INSTALLATION OF REMOVABLE BOLLARDS AT APPROACH SLAB.

ALTERNATES: REFER TO ALL OTHER ASSOCIATED STRUCTURAL, CIVIL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

- ALTERNATE NO. 1:
- A. INCLUDES ALL WORK AS DETAILED IN THE BASE BID.
 - B. ADDITIONAL FILL UP TO AND INCLUDING THE AGGREGATE BASE COURSE FOR PEDESTRIAN PATH.(ASSOCIATED EROSION AND SEDIMENT CONTROL TO BE INCLUDED).

- ALTERNATE NO. 2:
- A. INCLUDES ALL WORK AS DETAILED IN THE BASE BID AND ALTERNATE 1.
 - B. INSTALLATION OF LIGHT POLE BASED, LIGHT POLES, AND ASSOCIATED CONDUIT.
 - C. EARTHWORK AS REQUIRED TO INSTALL CURBS, SIDEWALK, PAVEMENT, AND DRAINAGE FOR PARKING LOT AND PEDESTRIAN PATH (ASSOCIATED EROSION AND SEDIMENT CONTROL TO BE INCLUDED).
 - D. STRIPING AND SIGNAGE AS DETAILED ON THE PLANS.

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REFERENCE DRAWINGS

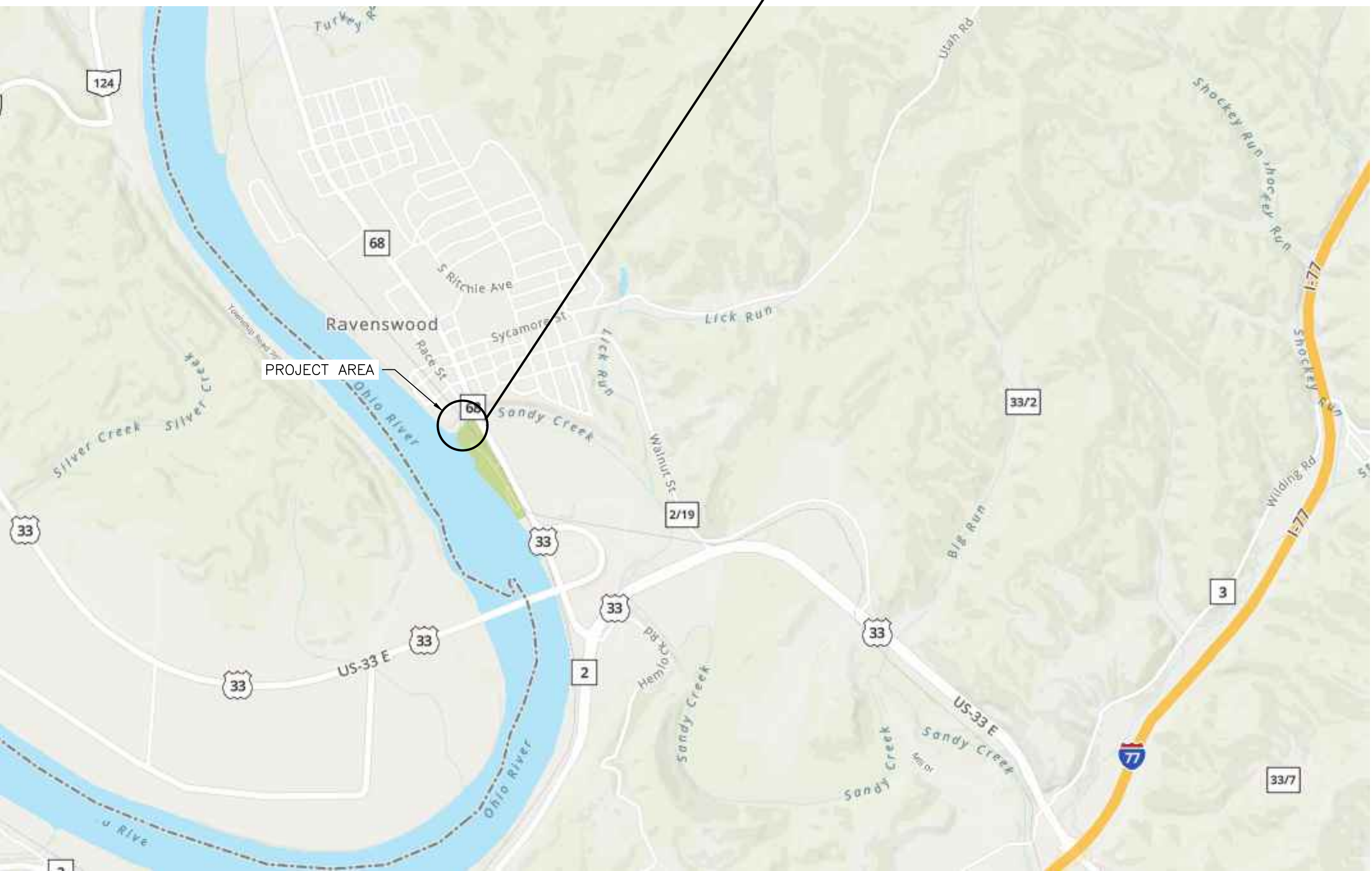
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| WVDOT SHT NO. 1500-AS1 | APPROACH SLAB LAYOUT |
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PEDESTRIAN BRIDGE OVER SANDY CREEK

CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA

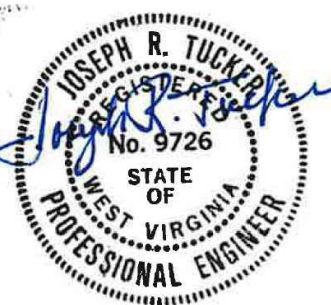


PEDESTRIAN BRIDGE
RAVENSWOOD, WEST VIRGINIA



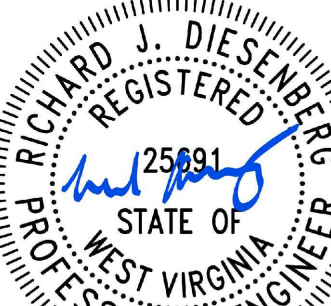
PROJECT LOCATION

STRUCTURAL
REGISTERED PE:



6/12/25
DATE

CIVIL
REGISTERED PE:



6/12/25
DATE

ELECTRICAL
REGISTERED PE:



6/12/25
DATE



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ISSUED FOR CONSTRUCTION
JUNE 12, 2025
2226039

A. GOVERNING SPECIFICATIONS

1. THE GOVERNING SPECIFICATIONS FOR THE PROJECT ARE THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2023 (FROM HERE ON REFERRED TO AS WVDOT) IN CONJUNCTION WITH THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, CURRENT GUIDELINES ESTABLISHED BY THE AMERICANS WITH DISABILITIES ACT, PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY (PROWAG), DATED JULY 26, 2011, ADA STANDARDS FOR ACCESSIBLE DESIGN, DATED SEPTEMBER, 15, 2010, MANUAL OF RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE RIGHT OF WAY, UTILITY COMPANY REQUIREMENTS, AND THE FOLLOWING MANUALS, LATEST EDITION: WVDOT TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTIONS AND MAINTENANCE OPERATIONS, WVDOT STANDARD DETAILS BOOK VOLUMES 1 AND 2, AND COMMODATION OF UTILITIES ON HIGHWAY RIGHT OF WAY, WVDOT MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHTS-OF-WAY, WVDOT TYPICAL SECTIONS AND RELATED DETAILS, AND THE WVDOT EROSION AND SEDIMENT CONTROL MANUAL. THE CONTRACT DOCUMENTS ARE THE GOVERNING PROVISIONS APPLICABLE TO THE PROJECT.
2. ALL WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE GOVERNING AUTHORITIES HAVING JURISDICTION INCLUDING ALL APPLICABLE CODES, SPECIFICATIONS, STANDARDS, AND GUIDELINES ADOPTED BY SUCH AUTHORITIES.
3. DISCREPANCIES BETWEEN THE PLANS AND VARIOUS CODES, STANDARDS, SPECIFICATIONS, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR REMEDIATION.
4. THE CONTRACT DOCUMENTS SHALL SUPPLEMENT AND AMEND THE GOVERNING SPECIFICATIONS/OTHER REFERENCED SPECIFICATIONS AND SHALL RULE IN CASE OF CONFLICT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER ACQUIRE REFERENCE SPECIFICATIONS OR CONTACT THE ENGINEER CONCERNING HOW TO ACQUIRE SUCH SPECIFICATIONS.

B. PERMITS

1. ALL OUTSTANDING FEDERAL, STATE, AND LOCAL PERMITS ASSOCIATED WITH THE PROJECT SHALL BE OBTAINED. THE COST OF ALL PERMITS SHALL BE INCIDENTAL TO THE PROJECT BID.
2. PROPER PERMIT DOCUMENTATION SHALL BE KEPT ON SITE AT ALL TIMES AND ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE RESPECTIVE PERMITS. ALL PERMIT CONDITIONS SHALL PROPERLY COMPLETED. (E.G. INSPECTION SCHEDULING).
3. ALL PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK.
4. THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING PERMIT APPLICATIONS TO THE DEVELOPER/CONTRACTOR, PROVIDING ENGINEERING DATA REQUIRED BY THE PERMIT, AND PROVIDING LIMITED ASSISTANCE WITH APPLICATION COMPLETION. DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR AUTHORITY COORDINATION, COMPLETION OF PERMIT APPLICATIONS, AND PERMIT ACQUISITIONS.

C. INSPECTIONS, SAMPLING, AND TESTING

1. ALL INSPECTIONS, SAMPLING, AND TESTING OF WORK ITEMS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
EXCAVATION, EMBANKMENT, SOIL COMPACTION, SUBGRADE PREPARATION, BACKFILL, AGGREGATE BASE, CONCRETE, AND ASPHALT SHALL BE IN ACCORDANCE WITH THE WVDOT STANDARD SPECIFICATIONS, PROJECT SOILS REPORT, MANUFACTURER SPECIFICATIONS, ACI 301/318, THE PROJECT DOCUMENTS, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS. INSPECTION, SAMPLING, AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT, CERTIFIED TESTING AGENCY APPROVED BY THE DEVELOPER AND EMPLOYED BY THE CONTRACTOR. ALL RESULTS SHALL BE PROMPTLY REPORTED TO THE ENGINEER. THE DEVELOPER, AT THEIR EXPENSE, MAY ALSO RETAIN A QUALIFIED PROFESSIONAL TO PERFORM INDEPENDENT QUALITY CONTROL/ASSURANCE CHECKS ON THE CONTRACTOR'S WORK. WHERE QC/QA REQUIREMENT CONFLICTS EXIST, PROJECT MANUAL REQUIREMENTS SHALL RULE. WHERE DOH SPECIFICATIONS APPLY, THE CONTRACTOR SHALL PERFORM DUTIES ASCRIBED TO THE "CONTRACTOR" WITH THE DEVELOPER RESERVING THE OPTION TO PERFORM DUTIES SIMILAR OR DIFFERENT TO THOSE ASCRIBED TO THE "DIVISION".

D. MISCELLANEOUS

1. THE INFORMATION SHOWN ON THESE DRAWINGS IS BASED UPON EXISTING DRAWINGS, THE TOPOGRAPHIC SURVEY, MISS UTILITY FIELD MARKS INDICATING THE LOCATION OF BURIED UTILITIES (WITH NO INDICATION OF DEPTHS GIVEN), APPROXIMATE DEPTH INFORMATION PROVIDED BY UTILITY COMPANIES, AND DEVELOPER-PROVIDED INFORMATION.
2. ALL ADJACENT STRUCTURES AND UTILITY SERVICES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ALL EXISTING FEATURES (E.G. CURBS, TREES, BUSHES, PAVING, ETC.) DAMAGED BY CONSTRUCTION SHALL BE RESTORED TO A CONDITION SATISFACTORY TO THE DEVELOPER.
3. ALL PHASES OF WORK SHALL BE SUBJECT TO INSPECTION, TESTING AND ACCEPTANCE BY ENGINEER AND/OR DEVELOPER.
4. A SAFE AND ORDERLY WORKSITE SHALL BE MAINTAINED AT ALL TIMES.
5. THE LOADING/UNLOADING AND HAULING OF ALL MATERIALS TO AND FROM THE CONSTRUCTION SITE SHALL BE INCLUDED.
6. ALL CONSTRUCTION WORK RELATED TO THESE DRAWINGS SHALL BE COORDINATED WITH THE DEVELOPER AND OTHER CONTRACTORS THAT MAY BE INVOLVED WITH THE PROJECT.
7. ALL NECESSARY BARRICADING AND FLAGGING SHALL BE PROVIDED IN ORDER TO PROTECT THE SAFETY OF THE WORKERS AND THE GENERAL PUBLIC. TRAFFIC INTERRUPTIONS SHALL BE MINIMIZED AND COORDINATED WITH THE GOVERNING LOCAL AGENCY AND THE WVDOT.

E. WASTE MATERIAL

1. ALL MATERIAL REMOVED AND NOT REUSED IN THE CONSTRUCTION OF THIS PROJECT SHALL BE REMOVED FROM THE PROJECT AND PROPERLY DISPOSED IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITIES.

F. BENCH MARKS

1. BENCH MARK LOCATIONS SHALL BE HELD/PROTECTED THROUGHOUT THE LIFE OF THE PROJECT. IN THE EVENT A BENCH MARK IS DISTURBED, THE BENCH MARK SHALL BE RELOCATED OR REESTABLISHED AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE MADE FOR THIS WORK. BENCH MARK NORTHINGS, EASTINGS, ELEVATIONS, AND DESCRIPTIONS REFERENCED ON DRAWING NUMBER C100. THE COORDINATE GRID IS BASED ON THE SURVEY NORTH ARROW SHOWN ON THE PLAN.

G. ACCESS

1. SAFE ACCESS SHALL BE PROVIDED AT ALL TIMES TO THE RESIDENTS AND BUSINESSES AFFECTED BY CONSTRUCTION. ALL ACCESS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). ALL TRAFFIC FLOW DISTURBANCES SHALL BE MINIMIZED. ALL DISTURBANCES MUST BE ACCOMPLISHED SAFELY AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

H. VERIFICATIONS

1. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

I. UTILITIES

1. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. ALL EXISTING UTILITIES WITHIN THE WORK AREA SHALL BE FIELD VERIFIED. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES INCLUDING, BUT NOT LIMITED TO, PROVIDING PROTECTIVE MEASURES DURING CONSTRUCTION. CORRECTION OF ANY DAMAGE TO UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE DEVELOPER.
2. UNLESS NOTED OTHERWISE, UTILITY DEPTHS THAT COULD POSE CONFLICTS WITH CONSTRUCTION SHALL BE FIELD LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION. DEPTHS SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER FOR POSSIBLE RELOCATION/MODIFICATION DETERMINATION. ALL WORK ASSOCIATED WITH THE RELOCATION OF THESE QUESTIONABLE UTILITIES SHALL BE AS DIRECTED BY THE DEVELOPER (CHANGE ORDER AT TIME OF CONSTRUCTION). ALL ACTIVITIES, TIMING, AND DURATION OF THE UTILITY RELOCATIONS SHALL BE COORDINATED WITH THE DEVELOPER AND THE UTILITY COMPANY INVOLVED.
3. UTILITY LINES PLACED UNDER DRIVES AND PARKING LOTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE TRENCH DETAIL FROM THE WVDOT TYPICAL SECTIONS AND RELATED DETAILS PUBLICATION. BACKFILL FOR UTILITY LINES PLACED UNDER CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH TYPE B TRENCH. TYPE B AND D TRENCHES SHALL BE REFERENCED FOR UTILITY LINES PLACED UNDER EXISTING PAVEMENT.
4. PIPE, CONDUIT, JOINTS, FITTINGS, TYPICAL TRENCH SECTIONS, ETC. SHALL BE IN ACCORDANCE WITH THE RESPECTIVE UTILITY PROVIDER'S SPECIFICATIONS AND REQUIREMENTS.

J. FINAL CLEAN-UP

1. ALL PROPERTY, BOTH PUBLIC AND PRIVATE, WHICH HAS BEEN DAMAGED DURING THE EXECUTION OF THE WORK SHALL BE RESTORED IN AN ACCEPTABLE MANNER. THE SITE SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION.
2. ALL WORK MUST MEET THE ENGINEER'S AND DEVELOPER'S APPROVAL.

K. CLEARING AND GRUBBING

1. ALL AREA WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH ITEM 201001-000. ALL TOPSOIL SHALL BE REMOVED IN ACCORDANCE WITH ITEM 207001-001. STUMPS, ROOTS, AND OTHER VEGETATION SHALL BE DISCARDED AND ALL REMAINING TOPSOIL STOCKPILED FOR USE IN FINISHED GRADING/SEEDING AND MULCHING.

L. REMOVING DRAINAGE STRUCTURES

1. ANY EXISTING DRAINAGE STRUCTURES, HEADWALLS, AND PIPES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE COST OF THE REMOVAL OF EXISTING PIPES, INLETS, AND HEADWALLS SHALL BE INCIDENTAL TO THE PROJECT AND SHALL INCLUDE REMOVAL, CAPPING, DISPOSAL, AND BACKFILL WITH SUITABLE MATERIAL. NO ADDITIONAL PAYMENT OR MEASUREMENT WILL BE MADE FOR THIS WORK.

M. DRAINAGE

1. WORKING STORM DRAINAGE SYSTEMS THROUGHOUT THE WORK AREAS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE WORKING SYSTEM MAY CONSIST OF THE EXISTING STORM DRAINAGE SYSTEM, THE PROPOSED STORM DRAINAGE SYSTEM, OR A COMBINATION THEREOF. THE SITE SHALL BE GRADED TO DRAIN AND BE MAINTAINED FREE OF FLOODING AT ALL TIMES. TEMPORARY DRAINS, SUMPS, PORTABLE PUMPING EQUIPMENT, ETC. SHALL BE UTILIZED AS REQUIRED. MEASURES SHALL BE TAKEN TO MINIMIZE EROSION AND NOT ALTER EXISTING DRAINAGE CONDITIONS WITH RESPECT TO NEIGHBORING AND DOWNSTREAM PROPERTIES.
2. ALL PIPES TO REMAIN SHALL BE CONNECTED TO THE DRAINAGE SYSTEM OR HAVE POSITIVE OUTLET. ALL DRAINAGE OUTLET STRUCTURES SHALL BE FIELD ADJUSTED AS REQUIRED TO MATCH THE EXISTING GROUND AS DIRECTED BY THE ENGINEER. ALL EXISTING DRAINAGE FACILITIES SHALL BE FIELD VERIFIED.
3. THE COST OF ALL MATERIALS AND WORK NECESSARY FOR THE INSTALLATION OF CATCH BASINS, PIPE, ETC. SHALL BE INCIDENTAL TO THE PROJECT. ALL WORK ASSOCIATED WITH PLACEMENT OF STORM PIPE (E.G. TRENCHING, BEDDING, BACKFILL, ETC.) SHALL BE IN ACCORDANCE WITH WVDOT 604 AND THE STANDARD DETAILS BOOK. ALL PIPE LOCATED UNDER PAVEMENT/EXISTING PAVEMENT SHALL BE BACKFILLED/CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE TRENCH DETAIL FROM THE WVDOT TYPICAL SECTIONS AND RELATED DETAILS PUBLICATION.

N. TEMP. SEDIMENT AND EROSION CONTROL AND STORM WATER POLLUTION PREVENTION PLAN

1. ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL AND STORM WATER POLLUTION PREVENTION ACTIVITIES SHALL BE PROVIDED AS REQUIRED. THE COST OF FURNISHING AND INSTALLING ALL MATERIALS NECESSARY FOR THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. ALL STATE AND FEDERAL REGULATIONS, INCLUDING THE WVDEP STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AND THE WVDOT EROSION AND SEDIMENT CONTROL MANUAL AND WVDOT 642/652, SHALL BE OBSERVED. IN THE EVENT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE ORDERED BY THE ENGINEER DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS, OR FAILURE TO INSTALL REQUIRED CONTROLS AS PART OF THE WORK SCHEDULE, SUCH WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE DEVELOPER. WHERE APPLICABLE, THE CONDITIONS OF THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT SHALL BE MET DURING ALL STAGES OF CONSTRUCTION. THE LOCATION AND TIMING OF ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE FIELD ADJUSTED TO PREVENT SIGNIFICANT IMPACTS ON RECEIVING WATERS. IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN SHALL CONTINUE THROUGHOUT THE DURATION OF THE PROJECT OR UNTIL SUCH TIME THAT THE UPSLOPE DISTURBED AREAS ARE STABILIZED. ALL REASONABLE ATTEMPTS SHOULD BE MADE TO MINIMIZE THE TOTAL AREA OF DISTURBED LAND. ALL AREAS THAT ARE TO REMAIN DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR, SHALL BE STABILIZED WITH ITEM 642004-001, SEED MIXTURE, TEMPORARY WITHIN 4 DAYS OF THE MOST RECENT DISTURBANCE. AREAS THAT ARE TO REMAIN DORMANT FOR MORE THAN 1 YEAR SHALL BE STABILIZED WITH PERMANENT SEEDING AND MULCHING WITHIN 4 DAYS OF THE MOST RECENT DISTURBANCE. MEASURES SHALL BE MAINTAINED/REPLACED AS REQUIRED. DRAWINGS SHALL BE REFERENCED FOR ADDITIONAL INFORMATION.

ALL DISTURBED AREAS OVER 50 FEET AWAY FROM A STREAM THAT ARE TO REMAIN DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN 1 YEAR, SHALL BE STABILIZED WITH ITEM 207, CONSTRUCTION SEEDING AND MULCHING, WITHIN 4 DAYS OF THE MOST RECENT DISTURBANCE. OTHER SUCH AREAS THAT ARE TO REMAIN DORMANT FOR MORE THAN 1 YEAR SHALL BE STABILIZED WITH PERMANENT SEEDING AND MULCHING WITHIN 4 DAYS OF THE MOST RECENT DISTURBANCE. AREAS WITHIN 50 FEET OF A STREAM SHALL BE STABILIZED WITHIN 2 DAYS. MEASURES SHALL BE MAINTAINED/REPLACED AS REQUIRED.

ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IMPLEMENTED PRIOR TO LAND DISTURBING ACTIVITIES.

O. WORK STOPPAGE

1. ANY WORK STOPPAGE INCURRED DUE TO THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO COMPLY WITH A MITIGATION ITEM SHALL BE REMEDIATED AT NO COST TO THE DEVELOPER.
2. SEDIMENT AND EROSION CONTROL FEATURES SHALL BE OPERATED AND MAINTAINED IN AN ACCEPTABLE CONDITION.
3. WHEN ANY EROSION OR SEDIMENT CONTROL FEATURE HAS REACHED HALF ITS CAPACITY, THE DEVICE SHALL BE CLEANED OUT AND RESTORED TO ITS ORIGINAL CONDITION.
4. A SPILL PREVENTION, CONTROL, AND COUNTERMEASURES (SPCC) PLAN THAT ITEMIZES SPECIFIC MEASURES THAT WILL BE IMPLEMENTED TO PREVENT AND CLEAN UP CHEMICAL AND PETROLEUM PRODUCT SPILLS THAT MAY OCCUR DURING ALL PHASES OF PROJECT CONSTRUCTION SHALL BE PREPARED. FUEL STORAGE AND REFUELING ACTIVITIES, EQUIPMENT MAINTENANCE ACTIVITIES, AND EQUIPMENT WASHING SHALL BE KEPT AT LEAST 500 FEET AWAY FROM ANY PERENNIAL OR INTERMITTENT WATERCOURSE OR WETLAND.

P. SEEDING, FERTILIZING, AND MULCHING

1. UNLESS NOTED OTHERWISE, ALL DISTURBED SOIL AREAS ARE TO BE SEEDED, FERTILIZED, AND MULCHED. SEEDING, FERTILIZING, AND MULCHING WILL BE AS SPECIFIED IN WVDOT 652. AREAS 3:1 OR FLATTER SHALL RECEIVE A TYPE C-2 MIXTURE (DEVELOPER-APPROVED LAWN MIX). AREAS STEEPER THAN 3:1 SHALL RECEIVE A TYPE L MIXTURE. DISTURBED AREAS OVER 50 FEET AWAY FROM A STREAM SHALL BE SEEDED AND MULCHED WITHIN 4 DAYS OF REACHING FINAL GRADE. OTHER SUCH AREAS SHALL BE SEEDED AND MULCHED WITHIN 2 DAYS OF REACHING FINAL GRADE. TESTING WILL NOT BE REQUIRED ON THESE ITEMS PURCHASED FROM A REPUTABLE DEALER. ALL DAMAGES TO PREVIOUSLY SEEDED AREAS SHALL BE REPAIRED.

Q. TREE REMOVAL

1. ALL TREES NOTED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OFF-SITE. TREES SHALL BE SUBSTANTIALLY REMOVED IN THEIR ENTIRETY IN ACCORDANCE WITH ITEM 201001-000 AND STRUCTURALLY BACKFILLED WITH SUITABLE MATERIAL. ALL WORK SHALL BE INCIDENTAL TO THE PROJECT.

R. DEMOLITION

1. CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON-SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED IN AN APPROVED LANDFILL.

S. EARTHWORK

1. SOIL DESIGNATED AS UNSUITABLE (E.G. TOPSOIL) SHALL BY NO MEANS BE USED AS FILL MATERIAL. ALL EXCAVATION AND EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WVDOT 207/211/228, THE PROJECT SOILS REPORT, AND THE PROJECT DOCUMENTS. ALL EARTHWORK SHALL ALSO BE IN DIRECT ACCORDANCE WITH OSHA REQUIREMENTS.
2. TEMPORARY SHORING, TRENCH BOXES, SUMP PUMPS, BORING/JACKING, UNDERPINNING, TIEBACKS, ETC. SHALL BE DESIGNED BY CONTRACTOR AND USED DURING CONSTRUCTION AS REQUIRED.

2. THE CERTIFIED TESTING AGENCY SHALL VERIFY ALL SUBGRADES HAVE BEEN COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM DRY DENSITY (OBTAINED IN ACCORDANCE WITH ASTM STANDARD METHOD D-698), ARE NOT FROZEN, HAVE ALLOWABLE BEARING CAPACITIES OF NO LESS THAN 1500 PSF, AND ARE NEAR OPTIMUM MOISTURE CONTENT ($\pm 2\%$ (3%). IF REQUIRED, THE AGENCY'S GEOTECHNICAL ENGINEER SHALL ALSO RECOMMEND THE LIMITS OF ADDITIONAL EXCAVATION. ALL SUBGRADES SHALL BE INSPECTED BY THE DEVELOPER'S REPRESENTATIVE PRIOR TO PLACEMENT OF EMBANKMENT, AGGREGATE, CONCRETE, ASPHALT, ETC. THE UPPER 12" OF SUBGRADE SOILS DIRECTLY BELOW PAVEMENT BASE STONE SHALL HAVE 100% COMPACTION. IF UNSUITABLE MATERIAL IS FOUND AT THE DRAWING SUBGRADE DEPTHS, ADDITIONAL EXCAVATION SHALL BE REQUIRED UNTIL SUITABLE BASES ARE ENCOUNTERED. ADDITIONAL EXCAVATIONS ARE TO BE BACKFILLED WITH PROPERLY COMPACTED ENGINEERED (CONTROLLED) FILL OR AGGREGATE BASE MATERIAL. THE AGGREGATE BASE SHALL BE ITEM 307001-000 AND BE PLACED ON A SUBGRADE PROPERLY PREPARED IN ACCORDANCE WITH WVDOT 307. UNLESS NOTED OTHERWISE, AGGREGATE BASE SHALL BE PLACED IN MAXIMUM 6" COMPACTED DEPTH LIFTS AND COMPACTED TO AT LEAST 100% PER ASTM D-698 AT OPTIMUM MOISTURE CONTENT. ALTERNATE METHODS AND MATERIALS CORRESPONDING TO SUBGRADE PREPARATION MAY BE REQUIRED DURING CONSTRUCTION. ALTERNATE METHODS MUST BE APPROVED BY THE ENGINEER.
3. THE BID SUM SHALL INCLUDE ALL EARTHWORK AS REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PROJECT DOCUMENTS. THE UNIT COSTS FOR EARTHWORK (SUBMITTED WITH THE BID FORM) SHALL BE USED TO ADJUST THE CONTRACT SUM BY BEING APPLIED TO SUBSTANTIAL ADDITIONS/DEDUCTIONS IN EXCAVATION/EMBANKMENT RESULTING FROM SCOPE CHANGES AND/OR EXTREME LIMIT DIRECTIVES ORDERED BY THE INSPECTING GEOTECHNICAL ENGINEER AND APPROVED BY THE ENGINEER.
4. EXCESS EXCAVATION NOT REUSED ON SITE SHALL BE RELOCATED AND SPOILED OFF SITE. SPOILS SHALL ONLY BE KEPT ON SITE WHEN SO SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. SPOILS AREAS SHALL BE PROPERLY SCALPED, BENCHED, AND CONSTRUCTED. UNLESS NOTED OTHERWISE, COMPACT IN ACCORDANCE WITH OTHER SITE STRUCTURAL EMBANKMENTS. TOPSOIL AND OTHER UNSUITABLE MATERIAL SHALL BE USED FOR FINISHED GRADING ONLY. SPOILS AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE PROJECT DOCUMENTS.

T. PAVEMENT SUBGRADE

1. TOPSOIL, ORGANIC MATERIAL, AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED TO THE SUBGRADE DEPTH OF A MINIMUM. ALL EXCAVATION, EMBANKMENT, SUBGRADE PREPARATION, AND AGGREGATE BASE CONSTRUCTION SHALL BE IN ACCORDANCE WITH WVDOT 207/211/228/307, PROJECT SOILS REPORT, AND THE PROJECT DOCUMENTS. THE DEVELOPER HOLDS THE RIGHT TO REQUEST ALL UNSUITABLE SOIL BE STOCKPILED ON SITE OR DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE SUBGRADE SHALL BE INSPECTED PRIOR TO PLACEMENT OF AGGREGATE BASE AND THE UPPER 6" VERIFIED TO CONSIST OF SUITABLE SOIL FREE OF PARTICLES LARGER THAN 3" AND HAVE BEEN COMPACTED TO AT LEAST 100% OF THE MATERIAL'S MAXIMUM DRY DENSITY (OBTAINED IN ACCORDANCE WITH ASTM STANDARD METHOD D-698). UNSUITABLE MATERIAL ENCOUNTERED AT THE SUBGRADE DEPTH SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL OR AGGREGATE BASE AS REQUIRED TO OBTAIN THE PROPER SUBGRADE PREPARATION.

U. CONCRETE

1. ALL CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH EACH ITEM'S RESPECTIVE WVDOT STANDARD SPECIFICATION SECTION. OTHERWISE, CONCRETE SHALL BE CLASS B MODIFIED WITH A 28 DAY STRENGTH OF 4000 PSI, REINFORCING STEEL SHALL BE DEFORMED AND CONFORM TO ASTM A-615 GRADE 60 OR ASTM A-497 GRADE 60, CONCRETE SURFACES SHALL BE LEVEL/SLOPED AS INDICATED AND FINISHED/EDGED PER WVDOT 501.12, AND CONCRETE SHALL BE MOIST CURED PER WVDOT 501.14 (MEMBRANE CURING COMPOUND MUST BE APPROVED).
2. WHERE NOTED, EXPANSION JOINT MATERIAL AND JOINT SEALANTS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE WVDOT STANDARD SPECIFICATION SECTION.
3. ISOLATION JOINT TREATMENT:
USE A PREFORMED EXPANSION JOINT MATERIAL (WVDOT 708.1 OR APPROVED EQUAL) TREATED WITH WAX (OR EQUIVALENT BOND-BREAKER). OUTER FACE OF JOINT MATERIAL TO BE 1/2" FROM SURFACE OF CONCRETE OR MASONRY (1" FOR PAVEMENT) WITH THE SPACE SEALED WITH FLEXIBLE JOINT SEALER (VERTICAL JT. & 1" RETURN: SIKAFLEX 1g; HORIZONTAL JT.: SIKAFLEX 1CSL (OR APPROVED EQUAL)). ALL SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

V. SIDEWALK AND CURB

1. MINIMUM SIDEWALK WIDTH AT ANY OBSTRUCTION SHALL BE 3.00'. SIDEWALK MODIFICATIONS REQUIRED TO MEET THIS MINIMUM WIDTH MUST BE APPROVED BY THE ENGINEER.
2. MATCH EXISTING CURB AND SIDEWALK WITH SMOOTH TRANSITIONS AT TIE-INS.
3. WHERE REQUIRED, TERMINATE CURB WITH STANDARD CURB TAPER (CLASS I/II).
4. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED IN THE SIDEWALK AT 5' INTERVALS (3/8" DEEP X 1/8" WIDE).
5. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED IN THE CURB AT 10' INTERVALS (1" DEEP X 1/8" WIDE) AND FILLED WITH JOINT SEALING MATERIAL (WVDOT 708.3). WVDOT 610.3 SHALL BE REFERENCED FOR ADDITIONAL INFORMATION RELATING TO INTEGRAL CONCRETE CURB.
6. UNLESS SHOWN OTHERWISE, SIDEWALK AND CURB SHALL BE SEPARATED IN THE LONGITUDINAL DIRECTION BY 1/4" PREFORMED EXPANSION JOINT MATERIAL (WVDOT 708.1). OUTER FACE OF JOINT MATERIAL SHALL BE 1/2" FROM SURFACE AND THE SPACE SEALED WITH JOINT SEALING MATERIAL (SIKAFLEX 1CSL).
7. SIDEWALK AND CURB SHALL HAVE 3/4" TRANSVERSE EXPANSION JOINTS AT 30' INTERVALS (3/4" PREFORMED EXPANSION JOINT MATERIAL PER WVDOT 708.1). OUTER FACE OF JOINT MATERIAL SHALL BE 1" FROM SURFACE FOR CURB (1/2" FOR SIDEWALK) AND THE SPACE SEALED WITH WVDOT 708.3 JOINT SEALING MATERIAL (SIKAFLEX 1CSL AT SIDEWALK).
8. SIDEWALK SHALL BE SEPARATED FROM BUILDING, COLUMNS, EXISTING CONCRETE, ETC. WITH 1/2" PREFORMED EXPANSION JOINT MATERIAL PER WVDOT 708.1. OUTER FACE OF JOINT MATERIAL SHALL BE 1/2" FROM SURFACE AND THE SPACE SEALED WITH SIKAFLEX 1CSL.
9. WHERE NOTED, EXPANSION JOINT MATERIAL AND JOINT SEALANTS SHALL BE IN ACCORDANCE WITH THE APPROPRIATE WVDOT STANDARD SPECIFICATION SECTION.
10. CONCRETE SURFACES SHALL BE LEVEL/SLOPED AS INDICATED, FINISHED/EDGED PER WVDOT 501.12, AND MOIST CURED PER WVDOT 501.14 (MEMBRANE CURING COMPOUND MUST BE APPROVED).

CIVIL SCOPE ITEMS INCLUDE, BUT MAY NOT BE LIMITED TO:

BASE BID:

1. INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES
2. CLEARING AND GRUBBING
3. CONSTRUCT FILL AND CUT AS REQUIRED TO TO INSTALL BRIDGE ABUTMENTS, MSE WALL, AND APPROACH SLABS WITH 3:1 GRADING AS SHOWN ON THE PLANS TO EXISTING GRADE.
4. INSTALLATION OF REMOVABLE BOLLARDS.
5. PERMANENTLY SEED AND MULCH ALL DISTURBED AREAS
6. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS CONTRIBUTING AREAS ARE STABILIZED.

ALTERNATE 1:

1. ALL WORK AS OUTLINED IN THE BASE BID.
2. ADDITIONAL INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED TO COMPLETE ADDITIONAL GRADING OPERATIONS.
3. CLEARING AND GRUBBING AS REQUIRED TO COMPLETE ADDITIONAL GRADING OPERATIONS.
4. ADDITIONAL FILL TO TOP OF AGGREGATE BASE COURSE ELEVATION AS DETAILED ON C500.
5. PERMANENTLY SEED AND MULCH ALL DISTURBED AREAS
6. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS CONTRIBUTING AREAS ARE STABILIZED.

ALTERNATE 2:

1. ALL WORK AS OUTLINED IN THE BASE BID AND ALTERNATE 1.
2. ADDITIONAL INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED TO COMPLETE ADDITIONAL GRADING OPERATIONS.
3. CLEARING AND GRUBBING AS REQUIRED TO COMPLETE ADDITIONAL GRADING OPERATIONS.
4. EARTHWORK AS REQUIRED TO INSTALL CONCRETE CURBING, SIDEWALK, AND ASPHALT FOR PARKING LOT AND PEDESTRIAN PATH.
5. PERMANENTLY SEED AND MULCH ALL DISTURBED AREAS
6. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS CONTRIBUTING AREAS ARE STABILIZED.

ABBREVIATIONS		ABBREVIATIONS CONT.	
AFC/F/G	ABOVE FINISHED CEILING/ FLOOR/GRADE	I/	INSIDE OF
ARCH	ARCHITECT(URAL)	ID	INSIDE DIAMETER
BIT	BITUMINOUS	INCL	INCLUD(E)(ING)
BL	BUILDING LINE	INS	INSULATION
BLDG	BUILDING	INT	INTERIOR
BM	BENCH MARK	INV	INVERT
BOT	BOTTOM	ISO	ISOLATION
CB	CATCH BASIN	JT	JOINT
CIP	CAST-IN-PLACE	LP	LOW POINT
CL	CENTERLINE	MAS	MASONRY
CLR	CLEARANCE	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MH	MANHOLE
CJ	CONSTRUCTION/CONTROL JOINT	NIC	NOT IN CONTRACT
CO	CLEANOUT	NS	NEAR SIDE
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	O/	OUTSIDE OF
CONST	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OD	OUTSIDE DIAMETER
DBO	DESIGN BY OTHERS	OH	OVERHEAD/OVERHANG
DET	DETAIL	OPNG	OPENING
DN	DOWN	OPP	OPPOSITE
D&R	DEMOLISH & REMOVE	PC	PRECAST
DS	DOWNSPOUT	PLC(S)	PLACE(S)
DWG	DRAWING	PVMT	PAVEMENT
EA	EACH	QTY	QUANTITY
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EL	ELEVATION	REINF	REINFORCING
EQ	EQUAL	REQD	REQUIRED
EQUIP	EQUIPMENT	RM	ROOM
ES	EACH SIDE	SCH	SCHEDULE
EW	EACH WAY	SECT	SECTION
EXIST	EXISTING	SP	SPACE
EXT	EXTERIOR	SPEC	SPECIFICATION(S)
FDN	FOUNDATION	SQ	SQUARE
FF	FINISHED FLOOR	SS	STAINLESS STEEL
FH	FIRE HYDRANT	STA	STATION
FLR	FLOOR	STD	STANDARD
FS	FAR SIDE	STL	STEEL
FIN	FINISHED	STR	STRUCTURAL
FTG	FOOTING	SW	SIDEWALK
GA	GAUGE/GAGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TBD	TO BE DETERMINED
GND	GROUND	T/	TOP OF
HMA	HOT-MIX-ASPHALT	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT	VIF	VERIFY IN FIELD
		WWF	WELDED WIRE FABRIC

LINETYPE LEGEND

—————	EDGE OF PAVEMENT
- - - - -	LOT LINE
- - - - -	RIGHT-OF-WAY
—UGT—	UNDERGROUND TELEPHONE LINE
—E—	OH ELECTRIC LINE
—UGE—	UNDERGROUND ELECTRIC LINE
—SAN—	SANITARY SEWER LINE
—S—	STORM SEWER LINE
—G—	GAS LINE
—W—	WATER LINE
—C—	COMMUNICATION LINE
— — — — —	UNDERDRAIN
— — — — —	BREAKLINE OR SLOPE LINE
— — — — —	CONSTRUCTION LIMITS (CUT)
— — — — —	CONSTRUCTION LIMITS (FILL)
— — — — —	CONSTRUCTION/CONTROL JOINT
— — — — —	EXP/ISO JOINT
— · · · · ·	BOUNDARY
— — — — —	CENTERLINE
— — — — —	RAILING
— — — — —	MISCELLANEOUS PIPING
— — — — —	MATCHLINE
— — — — —	EXISTING GROUND/GRADE
— — — — —	FINISHED GROUND/GRADE
— — — — —	LIMIT OF DISTURBANCE

SYMBOL LEGEND

xxx	FOUNDATION TYPE/MARK NUMBER
xxx	SPOT ELEVATION
	BEARING ELEVATION OR TOP SURFACE ELEVATION
	MANHOLE
	CATCH BASIN
	FIRE HYDRANT
	GUY WIRE
	COLUMN GRID
	LIGHT POLE
	UTILITY POLE
	TELEPHONE POLE
	POWER POLE
	GAS/WATER VALVE
	WATER METER
	GAS METER
	SIGN
	CLEAN-OUT
	POINT
	SOIL BORING/BENCH MARK/TIE-IN/ WORK POINT

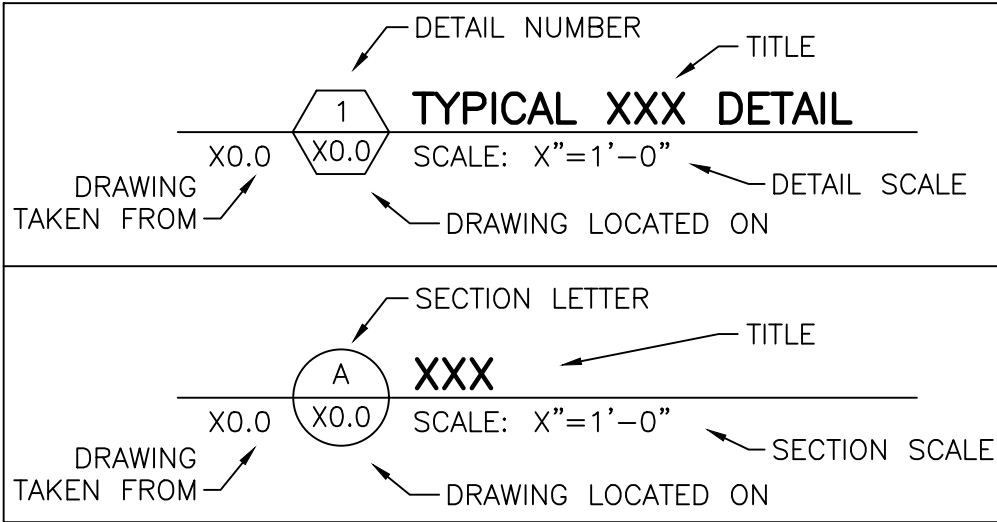
MATERIAL LEGEND

	CONCRETE PAVEMENT
	SIDEWALK
	WELL-GRADED STONE/GRAVEL
	DETECTABLE WARNING SURFACE
	SOIL
	BEDROCK
	GRASS
	SAND, HMA, OR GYPSUM

REFERENCES

1. PICKERING ASSOCIATES SURVEY (2023)

SECTION AND DETAIL NOTATION



UTILITIES

GAS – MOUNTAINEER GAS (800-834-2070)
WATER – CITY OF RAVENSWOOD (304-532-8211)
SEWER – CITY OF RAVENSWOOD (304-532-8211)
ELECTRIC – MON POWER (888-544-4877)
TELECOMMUNICATION – SUDDENLINK & FRONTIER

AUTHORITY CONTACTS

CITY OF RAVENSWOOD (304-273-2621)
WVDEP DIVISION OF WATER AND WASTE MANAGEMENT (304-926-0499)
WVDHHR BUREAU OF PUBLIC HEALTH (304-558-2971)

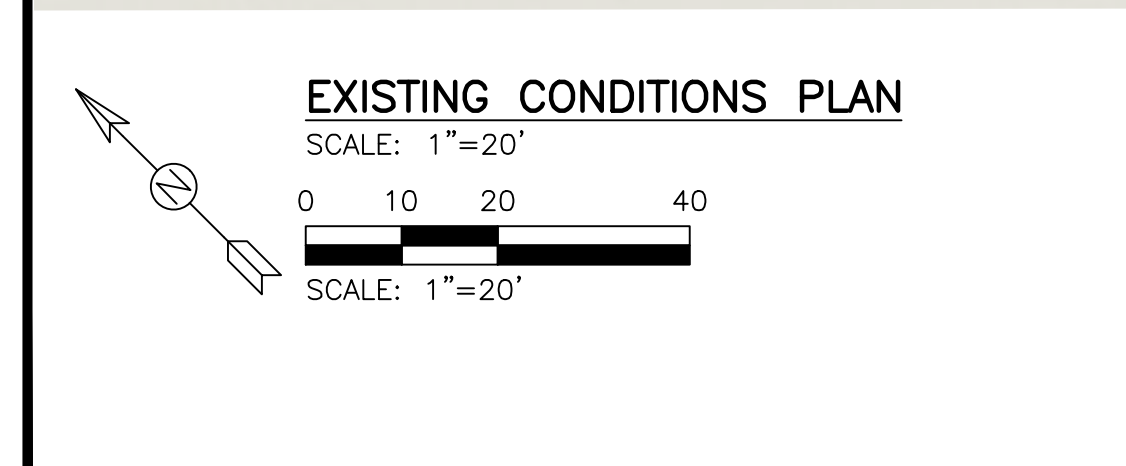
PICKERING ASSOCIATES

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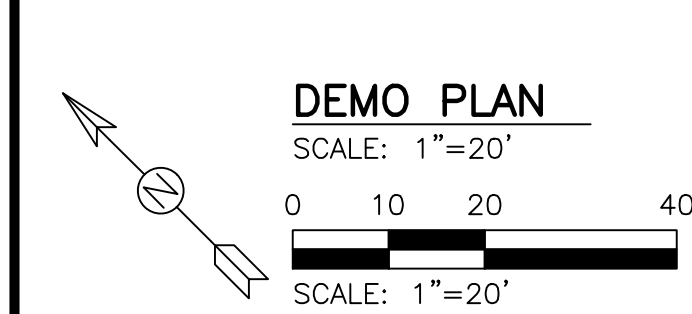
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Fax: (304) 464-4428

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Date	By	Date	By
06/12/25	JRT	0	



C100



- NOTE:
1. ALL TREE CUTTING/CLEARING ACTIVITIES TO BE CONDUCTED IN ACCORDANCE WITH THE U.S. FISH AND WILDLIFE SERVICE BAT ROOST TREE PROTOCOLS.
 2. NO EXCAVATION IS TO BE CONDUCTED BELOW THE ORDINARY HIGH WATER MARK WITHOUT THE WRITTEN CONSENT OF THE U.S. ARMY CORE OF ENGINEERS.

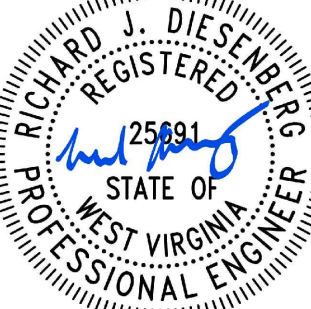


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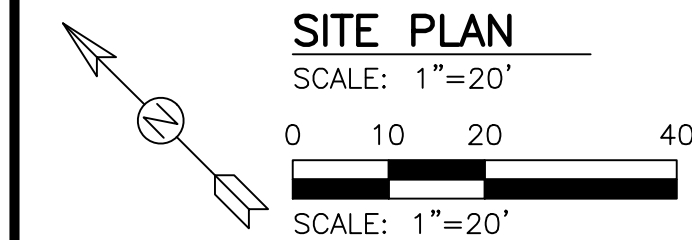
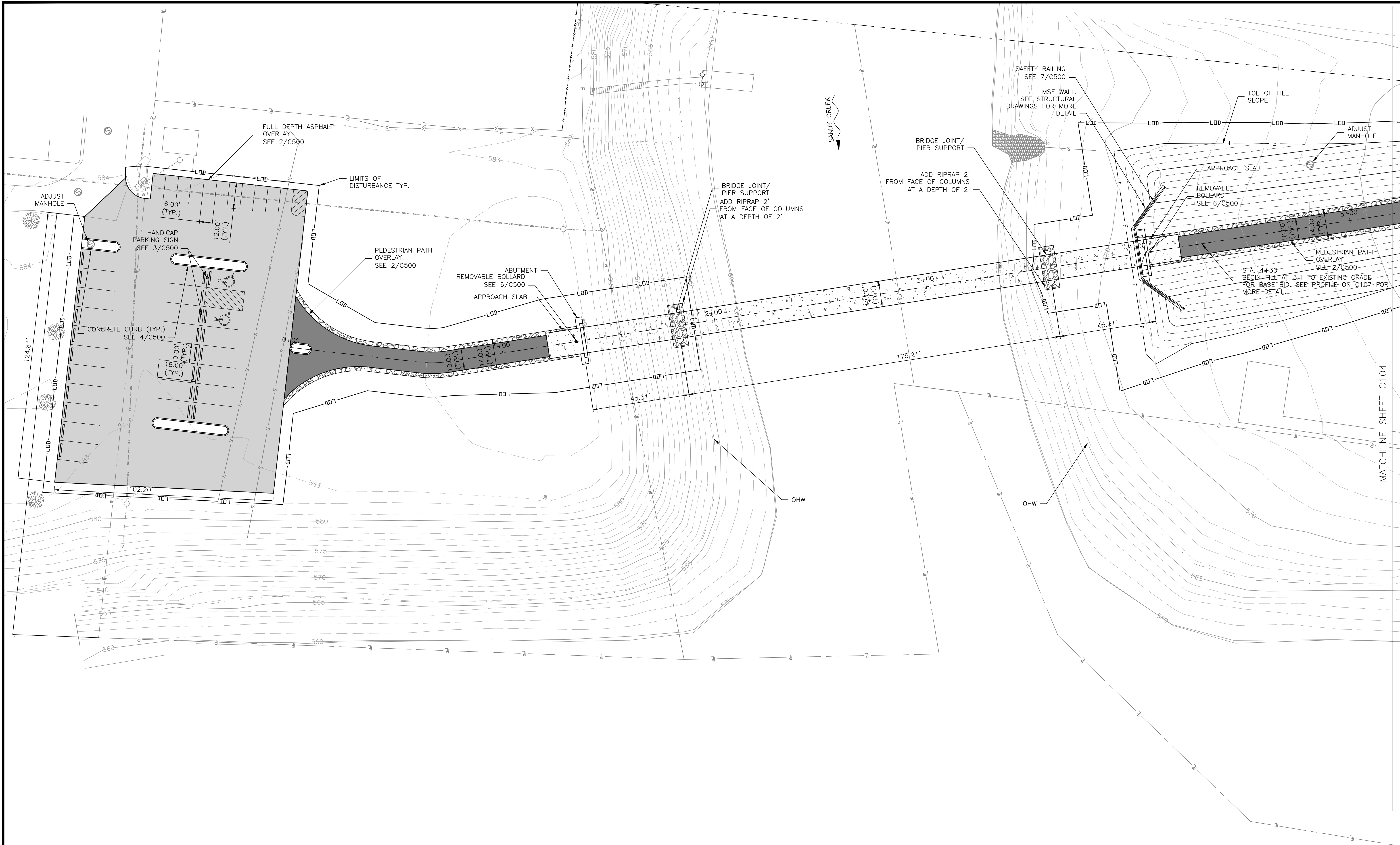
Drawing Description

CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
DEMOLITION PLAN



RICHARD J. DIESENGER
REGISTERED PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
25881

Project: 2226039
Designed By: RJD
Drawn By: RJD
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number: CD100



MATERIAL LEGEND	
	FULL-DEPTH ASPHALT OVERLAY
	PEDESTRIAN PATH OVERLAY
	AGGREGATE BASE COURSE, CLASS 10

Architects • Engineers • Surveyors

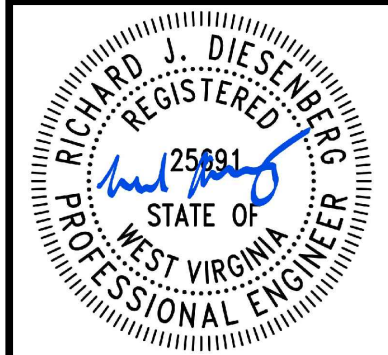
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Fax: (304) 464-4428

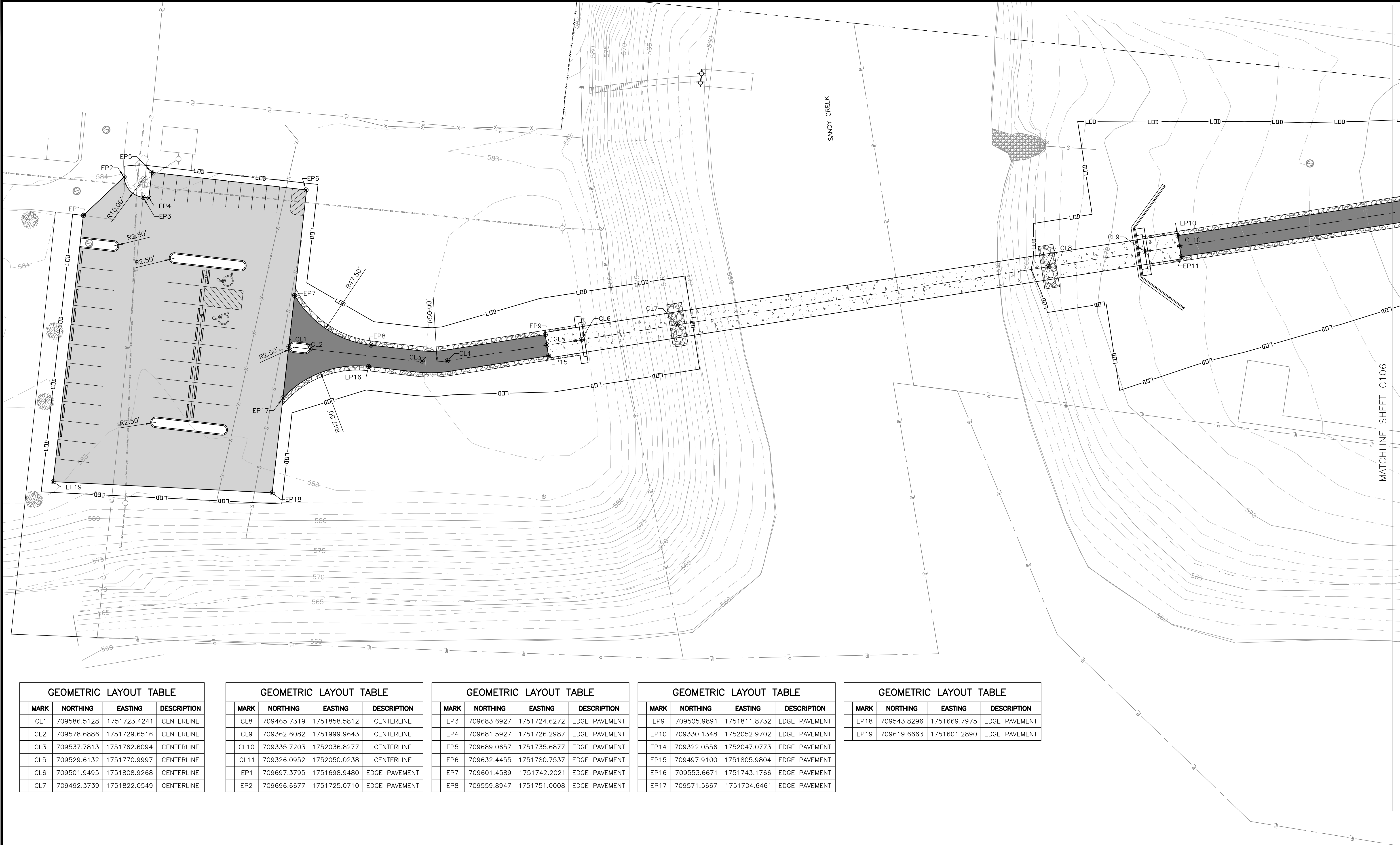
Rev.	Description	By	Date
0	ISSUED FOR CONSTRUCTION	JRT	06/12/25

Drawing Description

CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
SITE PLAN



Project: 2226039
Designed By: RJD
Drawn By: RJD
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number: C103



GEOMETRIC LAYOUT TABLE				
MARK	NORTHING	EASTING	DESCRIPTION	
CL1	709586.5128	1751723.4241	CENTERLINE	
CL2	709578.6886	1751729.6516	CENTERLINE	
CL3	709537.7813	1751762.6094	CENTERLINE	
CL5	709529.6132	1751770.9997	CENTERLINE	
CL6	709501.9495	1751808.9268	CENTERLINE	
CL7	709492.3739	1751822.0549	CENTERLINE	

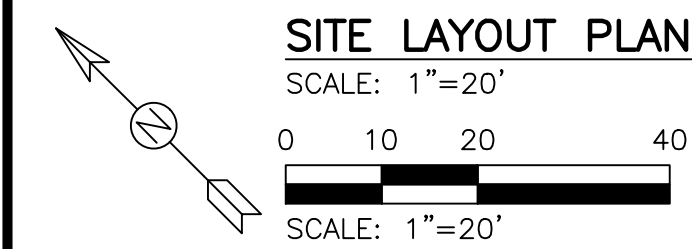
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MARK	NORTHING	EASTING	DESCRIPTION	
CL8	709465.7319	1751858.5812	CENTERLINE	
CL9	709362.6082	1751999.9643	CENTERLINE	
CL10	709335.7203	1752036.8277	CENTERLINE	
CL11	709326.0952	1752050.0238	CENTERLINE	
EP1	709697.3795	1751698.9480	EDGE PAVEMENT	
EP2	709696.6677	1751725.0710	EDGE PAVEMENT	

GEOMETRIC LAYOUT TABLE				
MARK	NORTHING	EASTING	DESCRIPTION	
EP3	709683.6927	1751724.6272	EDGE PAVEMENT	
EP4	709681.5927	1751726.2987	EDGE PAVEMENT	
EP5	709689.0657	1751735.6877	EDGE PAVEMENT	
EP6	709632.4455	1751780.7537	EDGE PAVEMENT	
EP7	709601.4589	1751742.2021	EDGE PAVEMENT	
EP8	709559.8947	1751751.0008	EDGE PAVEMENT	

GEOMETRIC LAYOUT TABLE				
MARK	NORTHING	EASTING	DESCRIPTION	
EP9	709505.9891	1751811.8732	EDGE PAVEMENT	
EP10	709330.1348	1752052.9702	EDGE PAVEMENT	
EP14	709322.0556	1752047.0773	EDGE PAVEMENT	
EP15	709497.9100	1751805.9804	EDGE PAVEMENT	
EP16	709553.6671	1751743.1766	EDGE PAVEMENT	
EP17	709571.5667	1751704.6461	EDGE PAVEMENT	

GEOMETRIC LAYOUT TABLE				
MARK	NORTHING	EASTING	DESCRIPTION	
EP18	709543.8296	1751669.7975	EDGE PAVEMENT	
EP19	709619.6663	1751601.2890	EDGE PAVEMENT	

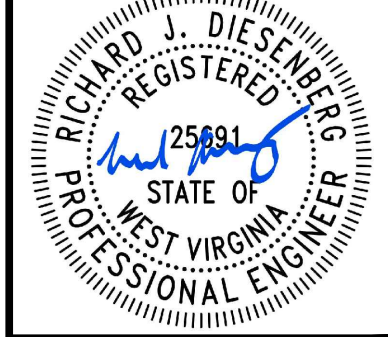
NOTE: SEE FOLLOWING PAGE FOR HORIZONTAL GEOMETRY REPORT AS IT PERTAINS TO THE PEDESTRIAN PATH ALIGNMENT.



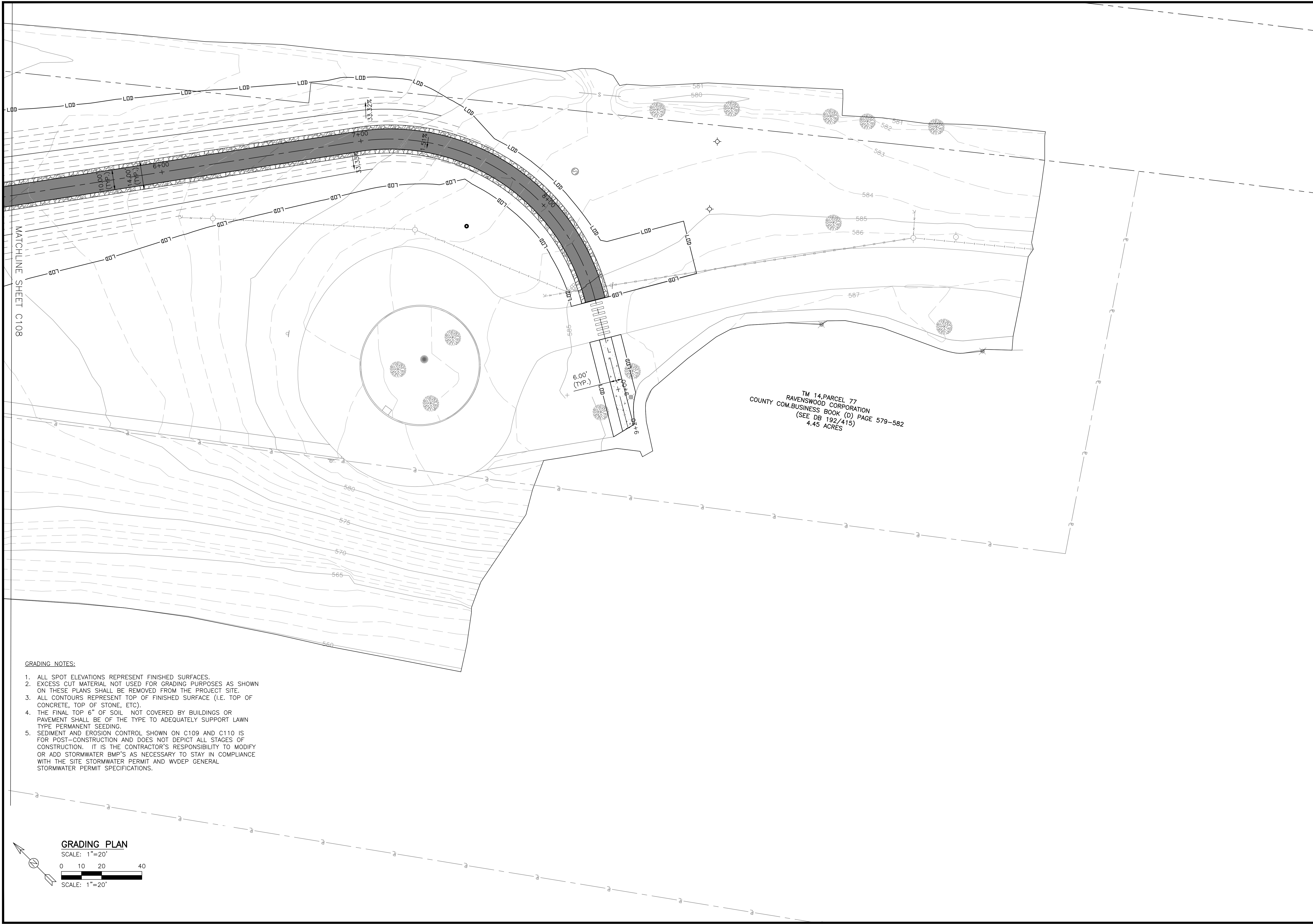
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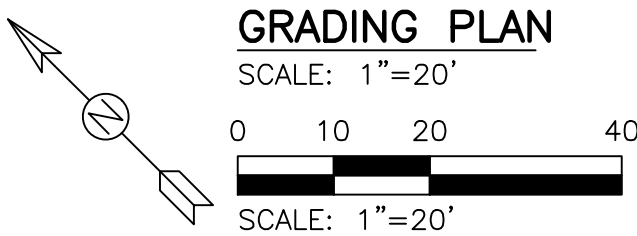
Drawing Description
CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
SITE LAYOUT PLAN



Project: 2226039
Designed By: RJD
Drawn By: RJD
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number: C105



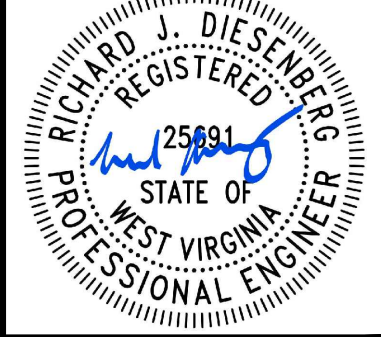
- GRADING NOTES:
1. ALL SPOT ELEVATIONS REPRESENT FINISHED SURFACES.
 2. EXCESS CUT MATERIAL NOT USED FOR GRADING PURPOSES AS SHOWN ON THESE PLANS SHALL BE REMOVED FROM THE PROJECT SITE.
 3. ALL CONTOURS REPRESENT TOP OF FINISHED SURFACE (I.E. TOP OF CONCRETE, TOP OF STONE, ETC).
 4. THE FINAL TOP 6" OF SOIL NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE OF THE TYPE TO ADEQUATELY SUPPORT LAWN TYPE PERMANENT SEEDING.
 5. SEDIMENT AND EROSION CONTROL SHOWN ON C109 AND C110 IS FOR POST-CONSTRUCTION AND DOES NOT DEPICT ALL STAGES OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MODIFY OR ADD STORMWATER BMP'S AS NECESSARY TO STAY IN COMPLIANCE WITH THE SITE STORMWATER PERMIT AND WVDEP GENERAL STORMWATER PERMIT SPECIFICATIONS.



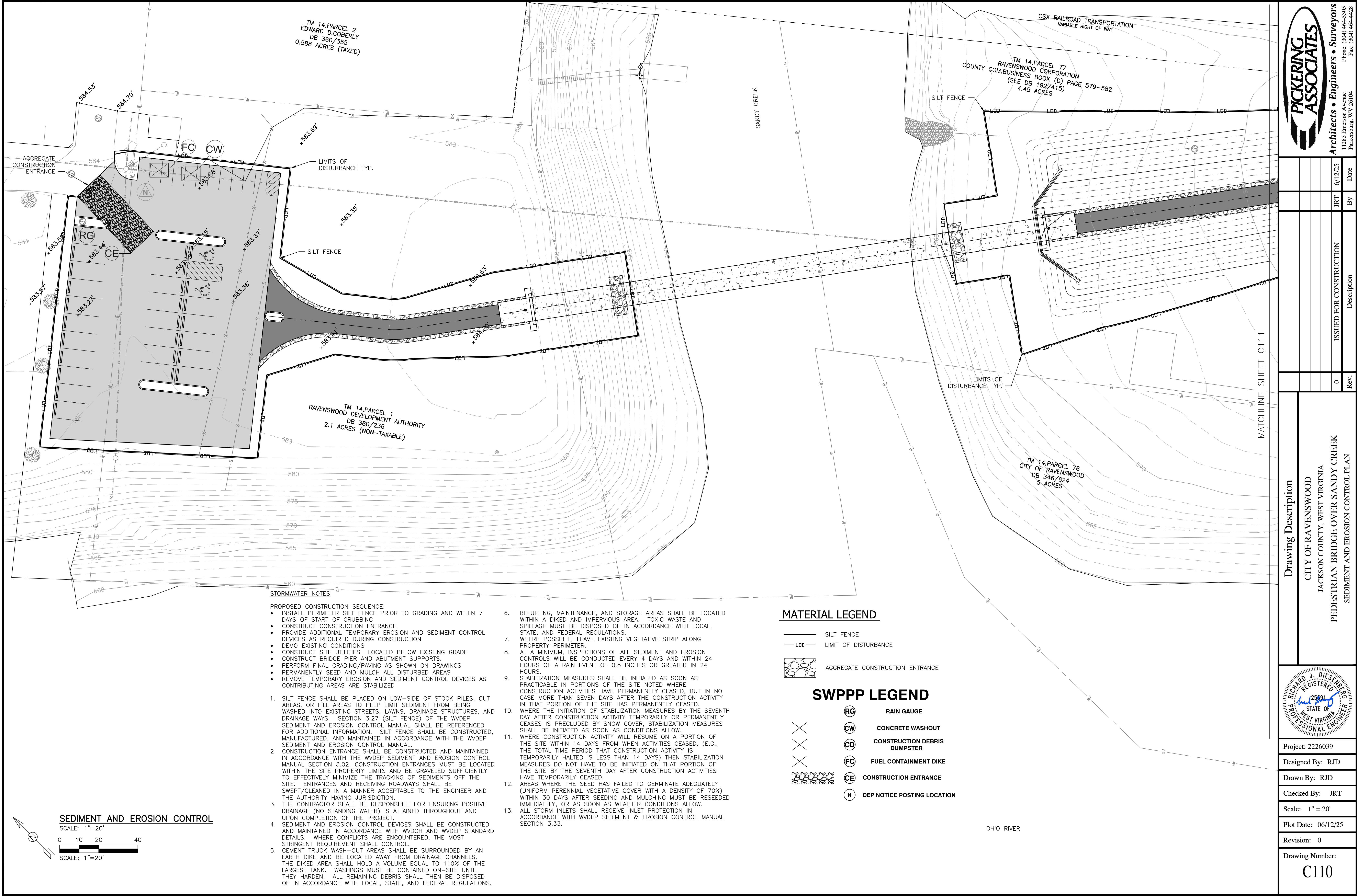
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Rev.	Description	By	Date
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Drawing Description
CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
GRADING PLAN



Project: 2226039
Designed By: RJD
Drawn By: RJD
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number:
C109



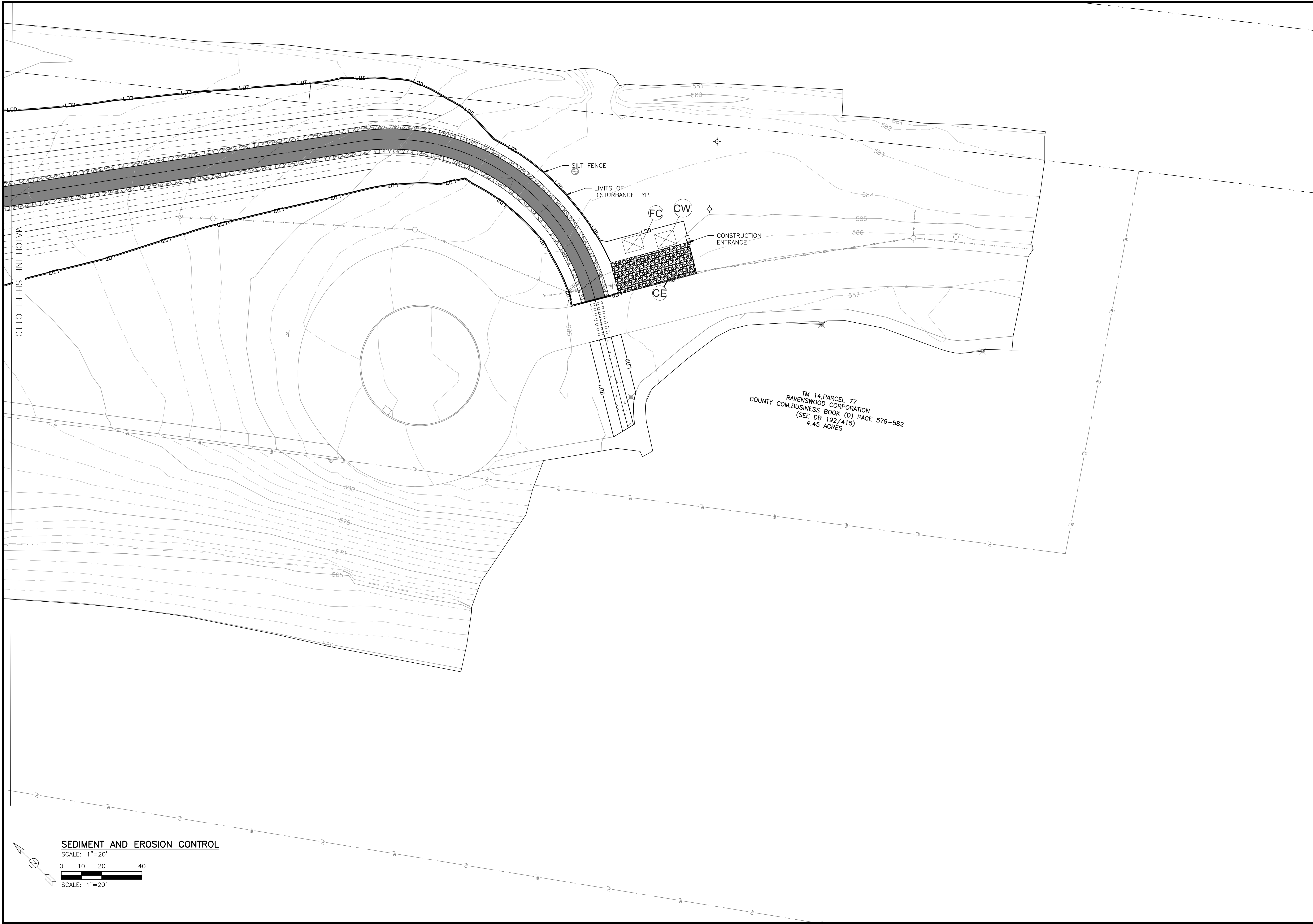
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Phone: (304) 464-5305
Fax: (304) 464-4428

Rev.	Description	By	Date
0	ISSUED FOR CONSTRUCTION	JRT	6/12/25

Drawing Description
CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
SEDIMENT AND EROSION CONTROL PLAN

PROFESSIONAL ENGINEER
RICHARD J. DIESENBERG
25881
STATE OF WEST VIRGINIA

Project: 2226039
Designed By: RJJ
Drawn By: RJJ
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number:
C110



SEDIMENT AND EROSION CONTROL

SCALE: 1"=20'

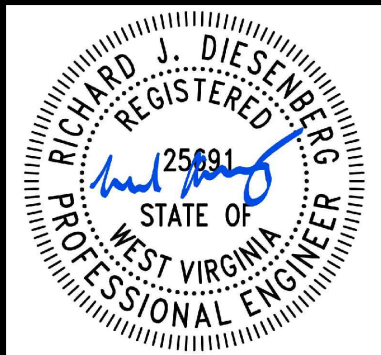
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SCALE: 1"=20'

PICKERING ASSOCIATES
Architects • Engineers • Surveyors
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Phone: (304) 464-5305
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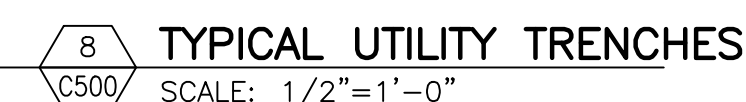
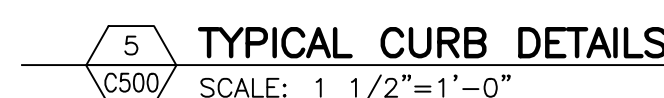
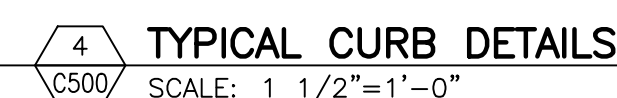
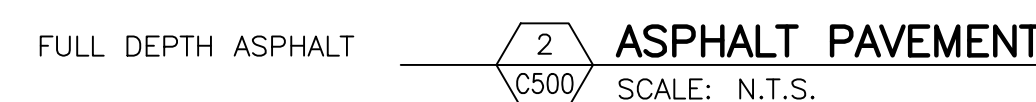
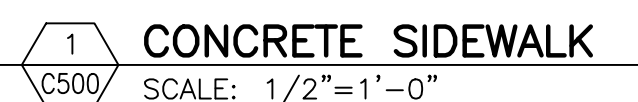
Rev.	Description	By	Date
0	ISSUED FOR CONSTRUCTION	JRT	06/12/25

Drawing Description
CITY OF RAVENSWOOD
JACKSON COUNTY, WEST VIRGINIA
PEDESTRIAN BRIDGE OVER SANDY CREEK
SEDIMENT AND EROSION CONTROL PLAN

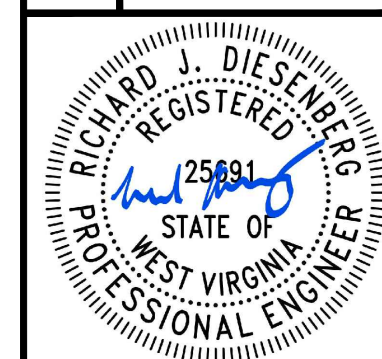


Project: 2226039
Designed By: RJD
Drawn By: RJD
Checked By: JRT
Scale: 1" = 20'
Plot Date: 06/12/25
Revision: 0
Drawing Number:

C111

[illegible]

Drawing Description
CITY OF RAVENSWOOD JACKSON COUNTY, WEST VIRGINIA PEDESTRIAN BRIDGE OVER SANDY CREEK SECTIONS AND DETAILS



Project: 2226039

Designed By: RJL

Drawn By: RJD

Checked By: JR'

Scale: AS NOTED

Plot Date: 06/12/25

Revision: 0

Drawing Number:

C500

A. <u>STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:</u>		REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S): 1500-AS1 DATED/REVISED 05/02/2019 1400-EZ1 DATED/REVISED 05/02/2019 AND TO THE FOLLOWING DESIGN DIRECTIVE: WVDOT DD-813 DATED/REVISED 09/30/2013	
B. <u>DESIGN SPECIFICATIONS:</u>		DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, 2020, THE WVDOT BRIDGE DESIGN MANUAL, 2006 AND LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, WITH 2015 INTERIM REVISIONS, AND THE WVDOT DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES-ADOPTED 2023.	
C. <u>DESIGN LOADING:</u>		DESIGN LOADING: 0.090 KIPS/SQ. FT. OR H10 LOADING FUTURE WEARING SURFACE (FWS) OF 0.025 KIPS/SQ. FT. (4) FUTURE UTILITY CONDUITS TO BE SUPPORTED UNDER THE TRUSS FLOOR BEAMS AT 9 PLF EACH.	
D. <u>DESIGN DATA:</u>		CONCRETE CLASS B – COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) CONCRETE CLASS K – COMPRESSIVE STRENGTH 4.0 KSI (SUPERSTRUCTURE) REINFORCING STEEL – MINIMUM YIELD STRENGTH 60 KSI STEEL PILES – ASTM A572 – YIELD STRENGTH 50 KSI	
E. <u>DECK PROTECTION METHOD:</u>		EPOXY COATED REINFORCING STEEL	
F. <u>PILES TO BEDROCK:</u>		PILES TO BEDROCK: DRIVE PILES TO REFUSAL ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE OBTAINED BY PENETRATING WEAK BEDROCK FOR SEVERAL INCHES TO A MINIMUM RESISTANCE OF 20 BLOWS PER INCH OR BY CONTACTING STRONG BEDROCK AND THE PILE RECEIVING AT LEAST 20 BLOWS. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL. INSTEAD OF DRIVING TO REFUSAL, THE CONTRACTOR MAY PERFORM DYNAMIC LOAD TESTING ACCORDING TO C&MS 616 TO ESTABLISH A DRIVING CRITERIA FOR EACH PILE TYPE AND CAPACITY. ESTABLISH THE DRIVING CRITERIA TO ACHIEVE AN ULTIMATE BEARING VALUE THAT IS 1.5 TIMES THE TOTAL FACTORED LOAD GIVEN BELOW FOR THE PILES. PAYMENT FOR DYNAMIC LOAD TESTING PERFORMED AT THE CONTRACTOR'S OPTION IS INCLUDED IN THE UNIT PRICE PAY ITEM FOR PILES DRIVEN. THE TOTAL FACTORED LOAD IS 380 KIPS PER PILE FOR THE 6 REAR ABUTMENT PILES, 380 KIPS PER PILE FOR THE 20 PIER PILES, AND 380 PER PILE FOR THE 4 FORWARD ABUTMENT PILES. REAR ABUTMENT PILES: (6) HP12x53 PILES 60 FEET LONG, ORDER LENGTH PIER PILES: (20) HP12x53 PILES 45 FEET LONG, ORDER LENGTH (10 REQ @ EA PIER) FORWARD ABUTMENT PILES: (4) HP12x53 PILES 65 FEET LONG, ORDER LENGTH	
G. <u>BRIDGE SEAT REINFORCING, SETTING ANCHORS:</u>		BRIDGE SEAT REINFORCING, SETTING ANCHORS: ACCURATELY PLACE REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT AT BOTH ABUTMENTS AND PIERS TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF BEARING ANCHORS.	
H. <u>BATTERED PILES:</u>		BATTERED PILES: THE BLOW COUNT FOR BATTERED PILES SHALL BE THE BLOW COUNT DETERMINED FOR VERTICAL PILES OF THE SAME ULTIMATE BEARING VALUE DIVIDED BY AN EFFICIENCY FACTOR (D). COMPUTE THE EFFICIENCY FACTOR (D) AS FOLLOWS: $D = 1 - UG / (1 + G^2)^{1/2} - 1$ U = COEFFICIENT OF FRICTION, WHICH IS ESTIMATED AT 0.05 FOR DOUBLE-ACTING AIR OPERATING OR DIESEL HAMMERS; 0.1 FOR SINGLE-ACTING AIR OPERATED OR DIESEL HAMMERS; AND 0.2 FOR DROP HAMMERS. G = RATE OF BATTER (1/3", 1/4", ETC.)	
I. <u>PILE SPLICES:</u>		PILE SPLICES: IN LIEU OF USING THE FULL PENETRATION BUTT WELDS SPECIFIED IN CMS 616.11.2 TO SPLICE STEEL H-PILES, THE CONTRACTOR MAY USE A MANUFACTURED H-PILE SPICER. FURNISH SPLICERS FROM THE FOLLOWING MANUFACTURER: ASSOCIATED PILE AND FITTING CORPORATION 8 WOOD HOLLOW RD. PLAZA 1 PARSIPPANY, NJ 07054 INSTALL AND WELD THE SPICER TO THE PILE SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN ASSEMBLY PROCEDURE SUPPLIED TO THE ENGINEER BEFORE THE WELDING IS PERFORMED.	
J. <u>SPECIAL SPECIFICATIONS FOR PRE-ENGINEERED BRIDGE:</u>		NOTE: ALLOWABLE STRESSES MAY BE INCREASED 1/3 ABOVE THE VALUES OTHERWISE PROVIDED WHEN PRODUCED BY WIND LOADING, ACTING ALONE OR IN COMBINATION WITH THE DESIGN DEAD AND LIVE LOADS.	
1.0 GENERAL		2.1 SPAN 1: 45'-0", SPAN 2: 175'-0", SPAN 3: 45'-0" C/C BEARING	
		2.2 WIDTH: 12'-0" INSIDE FACE OF RUB RAIL TO INSIDE FACE OF RUB RAIL.	
		2.3 CAMBER: THE BRIDGE SHALL HAVE A VERTICAL CAMBER DIMENSION AT MIDSPAN EQUAL TO 100% OF THE FULL DEAD LOAD DEFLECTION PLUS 1% OF THE FULL LENGTH OF THE BRIDGE.	
		2.4 MODEL TYPE: THE BRIDGE SHALL BE A HALF-THROUGH TRUSS WITH ARCHED TOP AND FLAT BOTTOM CHORD (MODIFIED BOW TRUSS) WITH ONE DIAGONAL PER PANEL AND PLUMB END VERTICAL MEMBERS. INTERIOR VERTICAL MEMBERS MAY BE EITHER PLUMB OR PERPENDICULAR TO THE CHORD FACES. THERE SHALL BE A TOTAL OF THREE SPANS, EACH OF SIMILAR TRUSS SECTIONS.	
		2.5 SAFETY RAILS: VERTICAL SAFETY RAILS OR PICKETS SHALL BE PLACED ON THE STRUCTURE TO A MINIMUM HEIGHT OF 4'-6" ABOVE THE DECK SURFACE OR AS SHOWN ON TRUSS SECTIONS. THE PICKETS SHALL BE SPACED SO AS TO PREVENT A 4" SPHERE FROM PASSING THROUGH THE TRUSS. PICKETS MAY BE PLACED ON THE INSIDE OR OUTSIDE OF THE STRUCTURE AT THE BRIDGE FABRICATOR'S OPTION. THE TOP OF THE VERTICAL PICKETS SHALL HAVE A CONTINUOUS CAP ANGLE OR SOME OTHER MEANS TO PREVENT BRIDGE USERS FROM CUTTING OR SCRAPING THEIR HANDS.	
		THE PICKET SAFETY SYSTEM SHALL BE DESIGNED FOR AN INFILL OF 200 POUNDS, APPLIED HORIZONTALLY AT RIGHT ANGLES, TO A ONE SQUARE FOOT AREA AT ANY POINT IN THE SYSTEM.	
		2.6 RUB RAIL: STEEL RUB RAILS SHALL BE PLACED AT 3'-6" ABOVE THE DECK SURFACE ON EACH SIDE.	
		2.7 TOE PLATE: THE BRIDGE SHALL BE SUPPLIED WITH A STEEL TOE PLATE MOUNTED TO THE INSIDE FACE OF BOTH TRUSSES. THE TOE PLATE STEEL MEMBER SHALL BE A MINIMUM OF 4 INCHES HIGH. TOE PLATING WILL BE WELDED TO THE TRUSS MEMBERS AT A HEIGHT ADEQUATE TO PROVIDE A 2" GAP BETWEEN THE BOTTOM OF THE PLATE AND THE TOP OF THE DECK OR THE TOP OF THE BOTTOM CHORD, WHICHEVER IS HIGHER. THE SPAN OF THE UNSTIFFENED TOE PLATE STEEL MEMBER (FROM CENTER TO CENTER OF SUPPORTS) SHALL NOT EXCEED 10'-0".	
		2.8 STRUCTURAL STEEL TUBING: IF CHORDS CONSIST OF TUBULAR STEEL MEMBERS, THEY SHALL BE PROVIDED WITH WEEP HOLES AT THE MEMBER'S LOWEST POINT TO DRAIN WATER. WHEN THE COLLECTION OF WATER INSIDE A STRUCTURAL TUBE IS A POSSIBILITY, EITHER DURING CONSTRUCTION OR DURING SERVICE, THE TUBE SHALL BE PROVIDED WITH A DRAIN HOLE AT ITS LOWEST POINT TO LET WATER OUT.	
3.0 DESIGN		3.1 THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 7TH EDITION, WITH 2015 AND 2016 INTERIM REVISIONS, THE WVDOT BRIDGE DESIGN MANUAL, 2006 AND THE LRFD DESIGN GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, WITH 2015 REVISIONS.	
		3.2 STRUCTURE TO BE DESIGNED FOR H10 VEHICULAR LOADING OR A PEDESTRIAN LIVE LOAD OF 0.090 KIPS/SQ. FT. WHICHEVER PRODUCES THE LARGEST STRESS IN THE MEMBER UNDER CONSIDERATION.	
		3.3 IN ADDITION TO ANTICIPATED DEAD LOADS, THE STRUCTURE SHALL BE DESIGNED FOR A FUTURE WEARING SURFACE LOAD OF 25 PSF AND (4) FUTURE UTILITY CONDUITS TO BE SUPPORTED UNDER THE TRUSS FLOOR BEAMS AT 9 PLF EACH.	
		3.4 HORIZONTAL FORCES: THE BRIDGE SHALL BE DESIGNED FOR A WIND LOAD OF 20 POUNDS PER SQUARE FOOT ON THE FULL VERTICAL PROJECTED AREA OF THE BRIDGE AS IF ENCLOSED. THE WIND LOAD SHALL BE APPLIED HORIZONTALLY AT RIGHT ANGLES TO THE LONGITUDINAL AXIS OF THE STRUCTURE.	
		THE WIND LOADING SHALL BE CONSIDERED BOTH IN THE DESIGN OF THE LATERAL LOAD BRACING SYSTEM AND IN THE DESIGN OF THE TRUSS VERTICAL MEMBERS, FLOOR BEAMS AND THEIR CONNECTIONS.	
		ADDITIONALLY, THE BRIDGE SHALL BE DESIGNED FOR THE STREAM INUNDATION HORIZONTAL FORCES ASSOCIATED WITH STREAM Q(100)=12,918 CFS AND V(100)=1.83 FT/S.	
		3.5 THE BRIDGE DESIGNER SHALL TAKE ALL CONSTRUCTION AND ERECTION LOADS INTO CONSIDERATION.	
		3.6 TOP CHORD/RAILING LOADS THE TOP CHORD, TRUSS VERTICALS, AND FLOOR BEAMS SHALL BE DESIGNED FOR HORIZONTAL FORCES (PER SECTION 3.4) AND FOR ANY LOADS REQUIRED TO PROVIDE TOP CHORD STABILITY. HOWEVER, IN NO CASE SHALL THE LOAD BE LESS THAN 50 POUNDS PER LINEAL FOOT OR A 200 POUND POINT LOAD, WHICHEVER PRODUCES GREATER STRESSES, APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP CHORD.	
		3.7 LOAD COMBINATIONS THE LOADS LISTED HEREIN SHALL BE CONSIDERED TO ACT IN THE FOLLOWING COMBINATIONS, WHICHEVER PRODUCE THE MOST UNFAVORABLE EFFECTS ON THE BRIDGE SUPERSTRUCTURE OR STRUCTURAL MEMBER CONCERNED. [DL=DEAD LOAD; LL=LIVE LOAD; WL=WIND LOAD; SL=STREAM INUNDATION LOAD; VEH=VEHICLE LOAD] DL+LL DL+VEH DL+LL+VEH DL+WL DL+SL DL+LL+WL DL+LL+SL DL+VEH+0.3WL	
		NOTE: ALLOWABLE STRESSES MAY BE INCREASED 1/3 ABOVE THE VALUES OTHERWISE PROVIDED WHEN PRODUCED BY WIND LOADING, ACTING ALONE OR IN COMBINATION WITH THE DESIGN DEAD AND LIVE LOADS.	
		3.8 DEFLECTION: THE VERTICAL DEFLECTION OF THE MAIN TRUSSES DUE TO SERVICE PEDESTRIAN LIVE LOAD SHALL NOT EXCEED 1/400 OF THE SPAN.	
		THE VERTICAL DEFLECTION OF CANTILEVER SPANS OF THE STRUCTURE DUE TO SERVICE PEDESTRIAN LIVE LOAD SHALL NOT EXCEED 1/300 OF THE CANTILEVER ARM LENGTH.	
		THE DEFLECTION OF THE FLOOR SYSTEM MEMBERS (FLOOR BEAMS AND STRINGERS) DUE TO SERVICE PEDESTRIAN LIVE LOAD SHALL NOT EXCEED 1/360 OF THEIR RESPECTIVE SPANS.	
		DEFLECTION LIMITS DUE TO OCCASIONAL VEHICULAR TRAFFIC SHALL NOT BE CONSIDERED.	
		THE HORIZONTAL DEFLECTION OF THE STRUCTURE DUE TO LATERAL WIND LOADS SHALL NOT EXCEED 1/500 OF THE SPAN UNDER 85 MPH (25 PSF) WIND LOAD.	
4.0 MATERIALS		4.1 STEEL	
		4.1.1 DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN FEDERAL REGULATIONS 23 CFR 635.410 AND THE STATE REQUIREMENTS OF SECTION 106.1.1.5 OF THE WEST VIRGINIA REVISED CODE APPLY TO THIS PROJECT. COPIES OF SECTION 106.1.1.5 OF THE REVISED CODE CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE WEST VIRGINIA DEPARTMENT OF ADMINISTRATIVE SERVICES. THE FIRST SHEET OF STEEL SHOP DRAWINGS SHALL BEAR A SIGNED CERTIFICATION BY THE CONTRACTOR AND FABRICATOR INDICATING THAT NO FOREIGN STEEL IS BEING USED.	
		4.1.2 UNPAINTED WEATHERING STEEL BRIDGES WHICH ARE NOT TO BE PAINTED SHALL BE FABRICATED FROM HIGH STRENGTH, LOW ALLOY, ATMOSPHERIC CORROSION RESISTANT ASTM A847 COLD FORMED WELDED SQUARE AND RECTANGULAR TUBING AND/OR ASTM A588, OR ASTM A242, ASTM A606 PLATE AND STRUCTURAL STEEL SHAPES (F = 50,000 PSI). THE MINIMUM CORROSION INDEX OF ATMOSPHERIC CORROSION RESISTANT STEEL, AS DETERMINED IN ACCORDANCE WITH ASTM G101, SHALL BE 6.0.	
		4.1.3 REFER TO ODOT CMS ITEM 516.07 STRUCTURAL STEEL, MISC.: BEARING DEVICES. THE BRIDGE SHALL BE SUPPLIED WITH APPROPRIATE FIXED AND EXPANSION OR SLIDE BEARING DEVICES AS APPROPRIATE TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION DUE TO TEMPERATURE EXTREMES FROM -30°F TO +110°F. ABUTMENT BEARING DETAILS AND PIER BEARING DETAILS SHALL BE DESIGNED BY PROFESSIONAL ENGINEER WHO IS LICENSED IN ACCORDANCE WITH SECTION 1.6 AND INCLUDED IN SUBMITTALS IN ACCORDANCE WITH SECTION 6.0.	
		4.1.4 FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE DRAWINGS. BOLTS SHALL CONFORM TO ASTM A325-N, 3/4" DIAMETER, UNLESS NOTED. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36, CONFIGURED AS SHOWN ON THE DRAWINGS WITH WASHER PER AISC STEEL CONSTRUCTION MANUAL FIFTEENTH EDITION TABLE 14-2 UNLESS NOTED OTHERWISE. FIELD WELDS SHALL BE MADE WITH AWS E70XX, LOW HYDROGEN ELECTRODES.	
		4.1.5 THE FIRST 5'-0" OF EACH BRIDGE END WILL BE PAINTED BELOW DECK WITH A 3-COAT PAINT SYSTEM TO MATCH THE WEATHERING STEEL. PAINT SHALL MEET THE REQUIREMENTS OF WVDOT CMS ITEM 688 AND WILL BE INCLUDED FOR PAYMENT IN THE LUMP SUM BID FOR STRUCTURES: PRE-ENGINEERED TRUSS BRIDGE SUPERSTRUCTURE (HALF-THROUGH TRUSS W/ ARCHED TOP CHORD AND FLAT BOTTOM CHORD, (3) SPAN).	
		4.2 CONCRETE DECK	
		4.2.1 THE BRIDGE SHALL BE FURNISHED WITH A STAY-IN PLACE GALVANIZED STEEL FORM DECK SUITABLE FOR POURING A REINFORCED CONCRETE SLAB. THE FORM DECK SHALL BE DESIGNED TO CARRY THE DEAD LOAD OF THE WET CONCRETE, WEIGHT OF FORM DECKING, PLUS A CONSTRUCTION LOAD OF 20 PSF OR A 150 POUND CONCENTRATED LOAD ON A 1'-0" WIDE SECTION OF DECK. WHEN EDGE SUPPORTS ARE USED, DEFLECTION IS LIMITED TO 1/180 OF THE SPAN OR 3/4", WHICHEVER IS LESS. WITHOUT EDGE SUPPORTS, DEFLECTION SHALL BE LIMITED TO 1/180 OF THE SPAN OR 3/8", WHICHEVER IS LESS.	
		THE FORM DECK SHALL BE EITHER SMOOTH OR COMPOSITE. COMPOSITE DECKING SHALL NOT BE USED AS REINFORCING WHEN DESIGNING FOR CONCENTRATED LOADS (WHEEL LOADS). THE DECKING SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A525 (G60).	
5.0 WELDING		WELDING AND WELD PROCEDURE QUALIFICATION TESTS SHALL CONFORM TO THE PROVISIONS OF ANSI/AWS D1.1 "STRUCTURAL WELDING CODE". FILLER METAL SHALL BE IN ACCORDANCE WITH THE APPLICABLE AWS FILLER METAL SPECIFICATION (I.E. AWS A 5.28 FOR THE GMAW PROCESS). FOR EXPOSED, BARE, UNPAINTED APPLICATIONS OF CORROSION RESISTANT STEELS (I.E. ASTM A588 AND A847), THE FILLER METAL SHALL BE IN ACCORDANCE WITH AWS D1.1, SECTION 3.7.3. WELDERS SHALL BE PROPERLY ACCREDITED OPERATORS, EACH OF WHOM SHALL SUBMIT CERTIFICATION OF SATISFACTORILY PASSING AWS STANDARD QUALIFICATION TESTS FOR ALL POSITIONS WITH UNLIMITED THICKNESS OF BASE METAL. HAVE A MINIMUM OF 6 MONTHS EXPERIENCE IN WELDING TUBULAR STRUCTURES AND HAVE DEMONSTRATED THE ABILITY TO MAKE UNIFORM SOUND WELDS OF THE TYPE REQUIRED.	
6.0 SUBMITTALS		6.1 SCHEMATIC DRAWINGS, DIAGRAMS AND CALCULATIONS SHALL BE SUBMITTED TO THE CONTRACTOR FOR REVIEW AND APPROVAL AFTER RECEIPT OF ORDER. ALL RELATIVE DESIGN INFORMATION SUCH AS MEMBER SIZES, BRIDGE REACTIONS, AND GENERAL NOTES SHALL BE CLEARLY SPECIFIED ON DRAWINGS. ALL DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER WHO IS LICENSED IN ACCORDANCE WITH SECTION 1.6.	
		6.2 FURNISH FIVE COPIES OF THE CONTRACTOR ACCEPTED SCHEMATIC DRAWINGS, DIAGRAMS, DESIGN CALCULATIONS AND SHOP DRAWINGS. THE TWO OF THESE COPIES MAY BE IN DIGITAL FORMAT, IF DESIRED.	
		6.3 ERECTION PLANS AND ASSEMBLY MANUALS SHOULD ACCOMPANY SHOP DRAWINGS.	
7.0 FABRICATION		BRIDGE SHALL BE FABRICATED BY A FABRICATOR WHO IS CURRENTLY CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION TO HAVE THE PERSONNEL, ORGANIZATION, EXPERIENCE, CAPABILITY, AND COMMITMENT TO PRODUCE FABRICATED STRUCTURAL STEEL FOR THE CATEGORY "MAJOR STEEL BRIDGES" AS SET FORTH IN THE AISC CERTIFICATION PROGRAM WITH FRACTURE CRITICAL ENDORSEMENT. QUALITY CONTROL SHALL BE IN ACCORDANCE WITH PROCEDURES OUTLINED FOR AISC CERTIFICATION. FOR PAINTED STRUCTURES, THE FABRICATOR MUST HOLD A "SOPHISTICATED PAINT ENDORSEMENT" AS SET FORTH IN THE AISC CERTIFICATION PROGRAM.	
8.0 FINISHING		TO HELP ACHIEVE A UNIFORMLY "WEATHERED" APPEARANCE, ALL EXPOSED SURFACES OF STEEL SHALL BE BLAST CLEANED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATIONS NO. 6 BRUSH-OFF BLAST CLEANING, SSPC-SP6 LATEST EDITION, AFTER FABRICATION.	
9.0 DELIVERY AND ERECTION		TRUSS BRIDGE SUPPLIER TO PROVIDE TECHNICAL ASSISTANCE (A REPRESENTATIVE AT THE PROJECT SITE) DURING TRUSS ERECTION. CONTRACTOR TO MAKE ARRANGEMENTS IN ADVANCE WITH THE TRUSS SUPPLIER.	
10.0 METHOD OF MEASUREMENT		10.1 ITEM STRUCTURE, MISC.: PRE-ENGINEERED TRUSS BRIDGE SUPERSTRUCTURE (HALF-THROUGH TRUSS W/ ARCHED TOP CHORD AND FLAT BOTTOM CHORD) SHALL BE PAID FOR ON A LUMP SUM BASIS, COMPLETE IN PLACE, INCLUDING DESIGN, FABRICATION, ERECTION, TECHNICAL ASSISTANCE AT JOB SITE AND ALL APPURTENANCES. ITEM SHALL INCLUDE BRIDGE TRUSSES, FLOOR BEAMS, STRINGERS, GUSSET PLATES, BEARING DEVICES WITH ANCHOR RODS, EXPANSION DEVICES, FLOOR DECK, STRINGERS, GUSSET PLATES, BEARING DEVICES WITH ANCHOR RODS, EXPANSION DEVICES, FLOOR DECK, PAINTING OF THE FIRST 5'-0" OF EACH BRIDGE END, RAILING SYSTEM ON BRIDGE AS SPECIFIED ON PROJECT PLANS, AND ALL BOLTS AND HARDWARE NECESSARY FOR THE INSTALLATION OF THE SUPERSTRUCTURE AND NECESSARY MEANS FOR MAINTENANCE AND INSPECTION.	
		K. <u>CONCRETE FINISHING:</u>	
		PROVIDE 3/4" CHAMFER AT CORNERS OF ALL EXPOSED CONCRETE.	
L. <u>STRUCTURAL LUMBER</u>		1.0 LUMBER	
		1.1. UNLESS NOTED OTHERWISE, INTERIOR BEAMS, HEADERS, JOISTS, AND RAFTERS SHALL BE SPRUCE-PINE-FIR NO. 2 OR HEM-FIR NO. 2.	
		1.2. UNLESS NOTED OTHERWISE, 2X4 OR 2X6 STUDS SHALL BE SPRUCE-PINE-FIR "STUD" GRADE AND MEMBERS 2X8 OR LARGER SHALL BE SOUTHERN-YELLOW-PINE NO. 1.	
		1.3. EXTERIOR PRESERVATIVE TREATED BEAMS, JOISTS, AND POSTS SHALL BE SOUTHERN-YELLOW-PINE NO. 2.	
		1.4. ALL DESIGN VALUES PER THE LATEST EDITION OF THE AF&PA NATIONAL DESIGN SPECIFICATIONS. ANY SUBSTITUTIONS SHALL MEET MINIMUM DESIGN VALUES OF ABOVE MEMBERS.	
		1.5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE IBC.	
		1.6. CONNECTORS, FASTENERS, ETC. SHALL BE OF A FINISH COMPATIBLE WITH BASE MATERIAL PROPERTIES AND INSTALLED SO AS NOT TO DAMAGE THE MEMBER (E.G. SPLITTING).	
2.0 DECKING AND SHEATHING (OSB OR PLYWOOD):		2.1. ROOFS: 5/8" 24/0 APA RATED EXTERIOR GRADE OSB SHEATHING WITH EXTERIOR GLUE AND ONE CLIP MIDWAY BETWEEN EACH SUPPORT EXCEPT TOW EQUALLY-SPACED CLIPS BETWEEN SUPPORTS SPACED 48" O.C.	
		2.2. FLOORS: 3/4" 0/16 APA RATED PLYWOOD SHEATHING WITH TONGUE-AND-GROOVE PANEL EDGES	
		2.3. WALLS: 1/2" APA RATED EXTERIOR GRADE OSB WITH HORIZONTAL BLOCKING AT PANEL EDGES	
3.0 CONNECTIONS (UNLESS NOTED OTHERWISE):		3.1. JOISTS TO BEAMS: 16 GAGE STANDARD JOIST HANGERS	
		3.2. TRUSS TO WALL OR RAFTERS TO WALL: STANDARD HURRICANE ANCHORS AT EACH BEARING POINT, SIMPSON H2.5 OR EQUAL	
		3.3. WOOD MEMBER CONNECTIONS SHALL BE THE MOST STRINGENT OF THE FOLLOWING: DESIGN BY FRAMING MANUFACTURER, CONNECTION SHOWN ON DRAWINGS, OR IN ACCORDANCE WITH IBC TABLE 2304.9.1.	
		3.4. FASTENERS IN TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.9.5.	
		3.5. SHEAR PANEL FASTENERS SHALL BE IN ACCORDANCE WITH IBC 2305.1.2.1.	
		3.6. NAILING SCHEDULE: SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.9.1 AS AUGMENTED BY THE PROJECT DOCUMENTS.	
4.0 ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING SHALL BE PROVIDED AT 8'-0" O.C. MAX FOR ALL FLOOR JOISTS. SOLID BLOCKING SHALL BE USED AT ALL JOISTS AND RAFTER BEARINGS.		5.0 SOLID BLOCKING SHALL BE PROVIDED AT MID-HEIGHT FOR ALL EXTERIOR STUD WALLS AND INTERIOR BEARING PARTITIONS WHICH ARE NOT SHEATHED EACH SIDE WITH GYPSUM BOARD OR APA-RATED SHEATHING.	
6.0 UNLESS NOTED OTHERWISE, SINGLE JACK STUDS SHALL BE USED UNDER BEAM AND HEADER BEARINGS FOR ROUGH OPENINGS UP TO AND INCLUDING 4'-0" AND DOUBLE JACK STUDS SHALL BE USED UNDER BEAM AND HEADER BEARINGS FOR SPANS GREATER THAN 4'-0".		7.0 CONTINUOUS BEAD OF GLUE SHALL BE APPLIED ON JOISTS AND GROOVE OF TONGUE AND GROOVE PANELS.	
8.0 BEFORE APPLYING FINISH FLOORING, SET NAILS 1/8" BUT DO NOT FILL, AND SAND LIGHTLY ANY SURFACE ROUGHNESS, PARTICULARLY AT JOINTS AND AROUND WALLS.		9.0 LUMBER: AS REQUIRED BY THE FRAMING MANUFACTURER.	
10.0 CONNECTIONS: ALL INTERNAL WALL, LINTEL, FRAMING, ETC. CONNECTIONS SHALL BE DESIGNED BY THE FRAMING MANUFACTURER.		11.0 SPECIFICATIONS AND REFERENCE STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION, ERECTION, HANDLING, AND BRACING REQUIREMENTS SHALL BE GOVERNED BY THE LATEST REVISIONS OF THE NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENINGS, TIMBER CONSTRUCTION STANDARDS.	
12.0 ALL STUD WALLS, LINTELS, WOOD FRAMING, WOOD SHEAR WALLS, TRUSSES, ETC. SHALL BE DESIGNED BY THE FRAMING MANUFACTURER FOR THE LOADS LISTED IN THE DESIGN VALUES TABLE ON THIS DRAWING. WALLS SHALL BE DESIGNED TO ADEQUATELY RESIST LATERAL FORCES AND TRANSMIT ALL REACTIONS TO THE SUPPORT STRUCTURE.		13.0 FRAMING DESIGNS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. FRAMING SUBMITTAL SHALL INCLUDE THE FOLLOWING INFORMATION:	
13.1 DESIGN INFORMATION FOR THE FRAMING SUPPLIED.		13.2 LAYOUT DRAWINGS INDICATING LOCATION OF SPECIAL FRAMING, LINTELS, SHEAR WALLS, ETC.	
13.3 (3) COPIES OF FRAMING DESIGNS AND LAYOUT DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WEST VIRGINIA.		14.0 ALL WOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE IBC.	
15.0 DOUBLE STUDS SHALL BE LOCATED AT VERTICAL, UNSUPPORTED WALL EDGES.			

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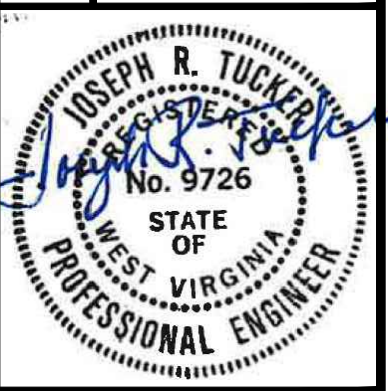
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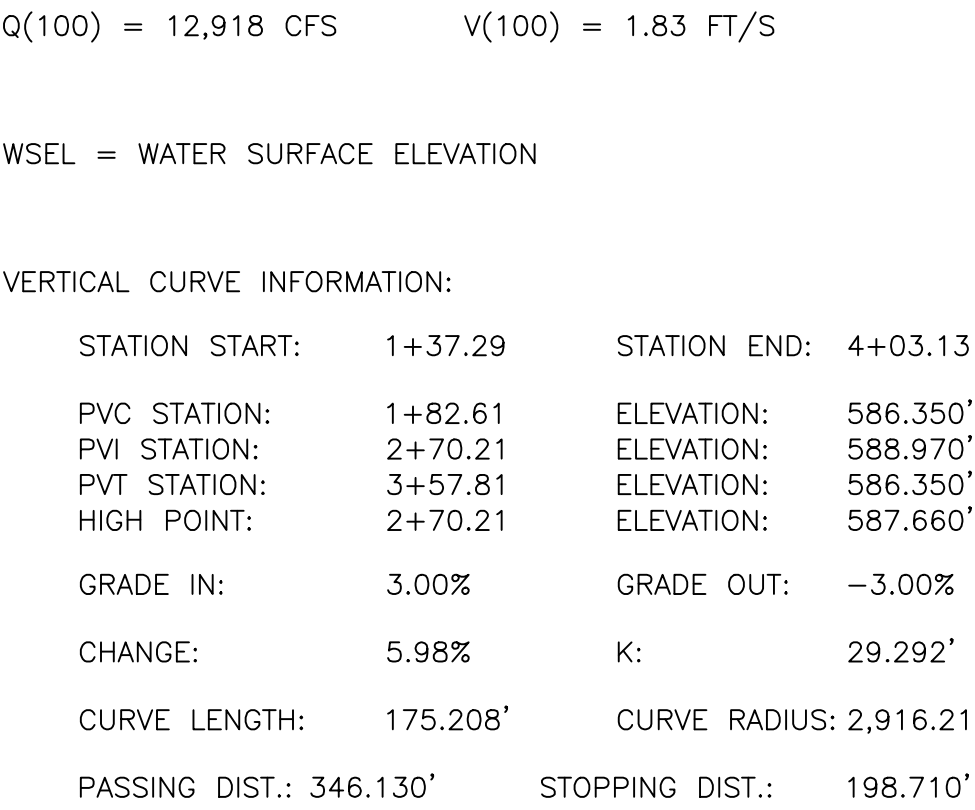
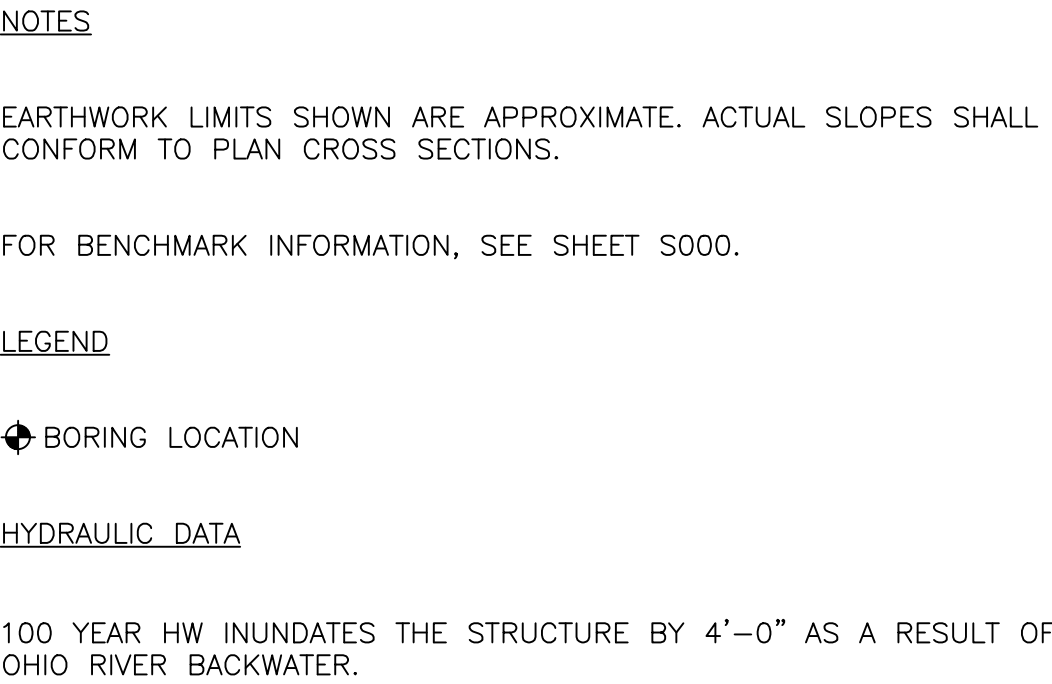
					06/12/25	Date
					JRT	By
					ISSUED FOR CONSTRUCTION	Description
					0	Rev.

Drawing Description

CITY OF RAVENSWOOD
JACKSON COUNTY, WV
PEDESTRIAN BRIDGE OVER SANDY CREEK
GENERAL STRUCTURAL NOTES



Project:	2226039
Designed By:	ALN
Drawn By:	ALN
Checked By:	JRT
Scale:	NTS
Plot Date:	06/12/25
Revision:	0
Drawing Number:	S000



GEOTECHNICAL REPORT PROVIDED BY:
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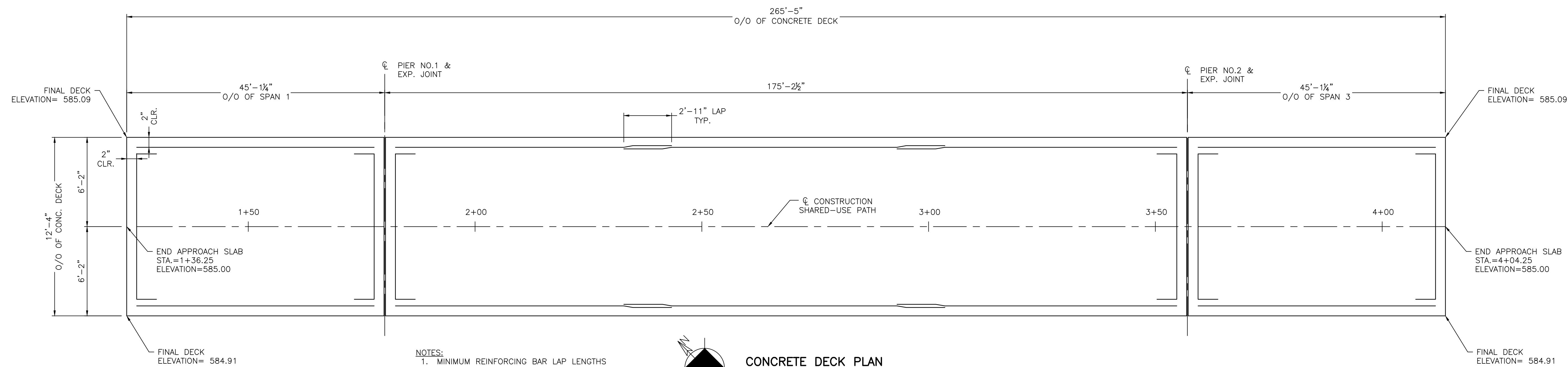
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Drawing Description
<p>CITY OF RAVENSWOOD</p> <p>JACKSON COUNTY</p> <p>PEDESTRIAN BRIDGE OVER SANDY CREEK</p> <p>SITE PLAN AND PROFILE</p>

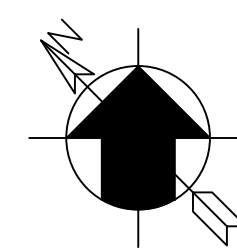
A circular professional engineer seal for Joseph R. Tucker, No. 9726, State of West Virginia. The seal is stamped in black ink on a white background. The text "JOSEPH R. TUCKER" is at the top, "REGISTERED" is in the middle, "No. 9726" is below that, "STATE OF WEST VIRGINIA" is at the bottom, and "PROFESSIONAL ENGINEER" is at the very bottom. A blue ink signature "Joseph R. Tucker" is written across the seal.

Project:	2226039
Designed By:	ALN
Drawn By:	ALN
Checked By:	JRT
Scale:	1/16" = 1'-0"
Plot Date:	06/12/25
Revision:	0
Drawing Number:	

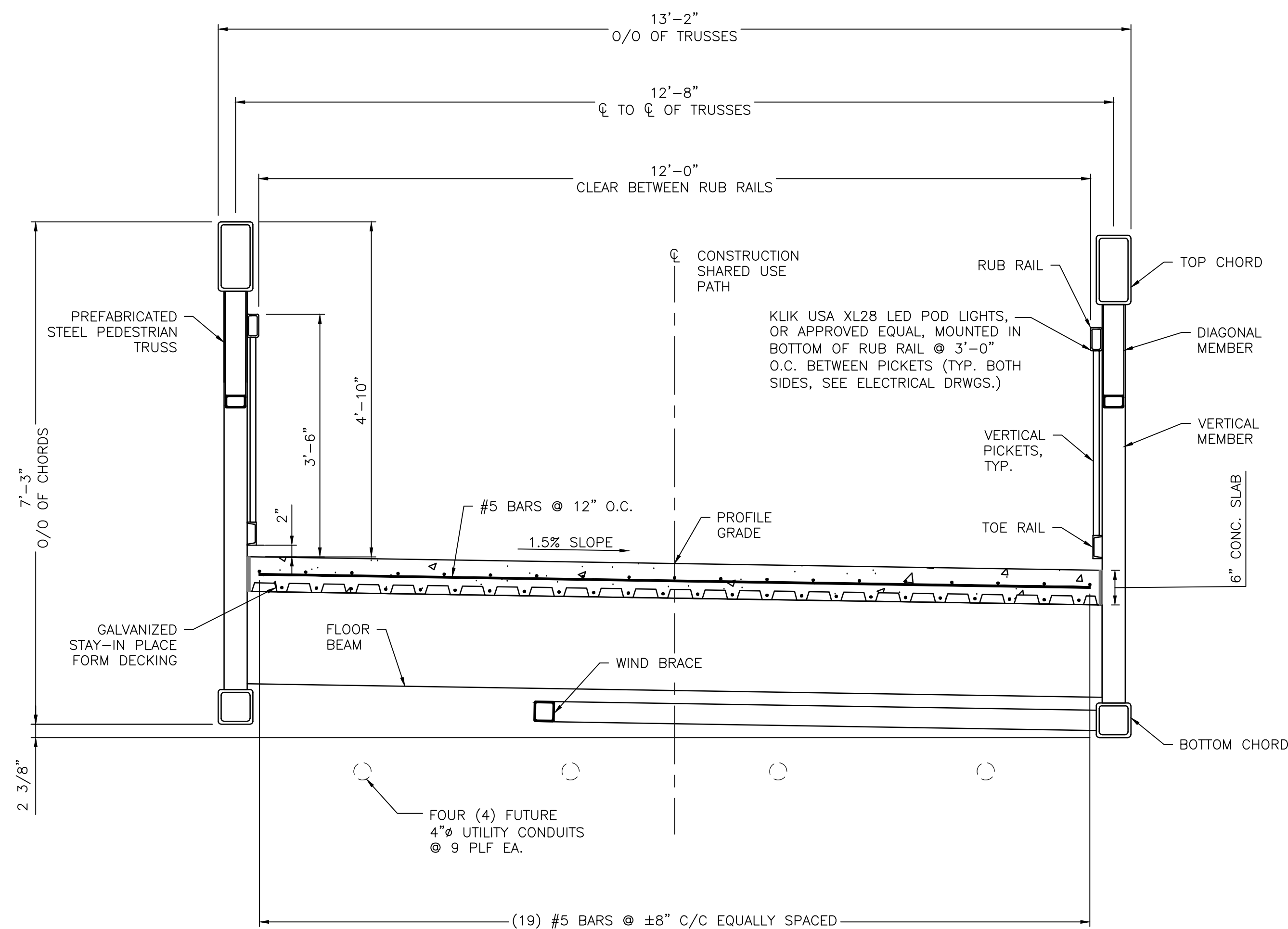
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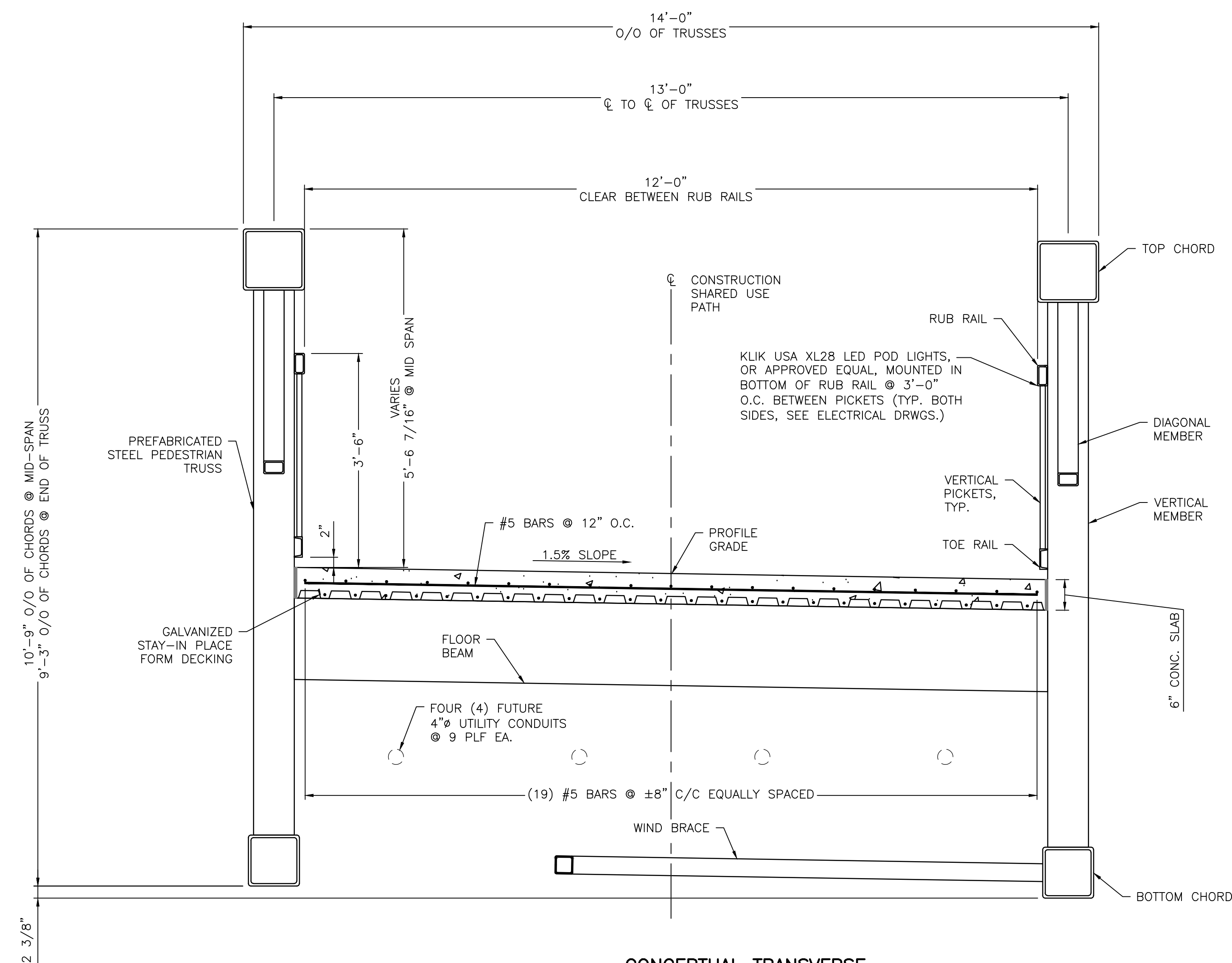
- NOTES:**
1. MINIMUM REINFORCING BAR LAP LENGTHS
NO. 5 BARS = 2'-11"
 2. FINAL DECK ELEVATIONS PROVIDED REPRESENT DEAD LOAD DEFLECTIONS HAVE OCCURRED. SCREED ELEVATIONS TO BE DETERMINED UTILIZING ANTICIPATED CAMBER PROVIDED BY PREFABRICATED PEDESTRIAN TRUSS MANUFACTURER.



CONCRETE DECK PLAN
SCALE: N.T.S.



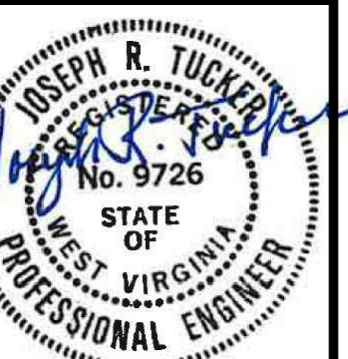
CONCEPTUAL TRANSVERSE SECTION VIEW @ SPAN 1 & 3
A
S200
ACTUAL DETAILED SECTION TO BE PROVIDED BY MANUFACTURER



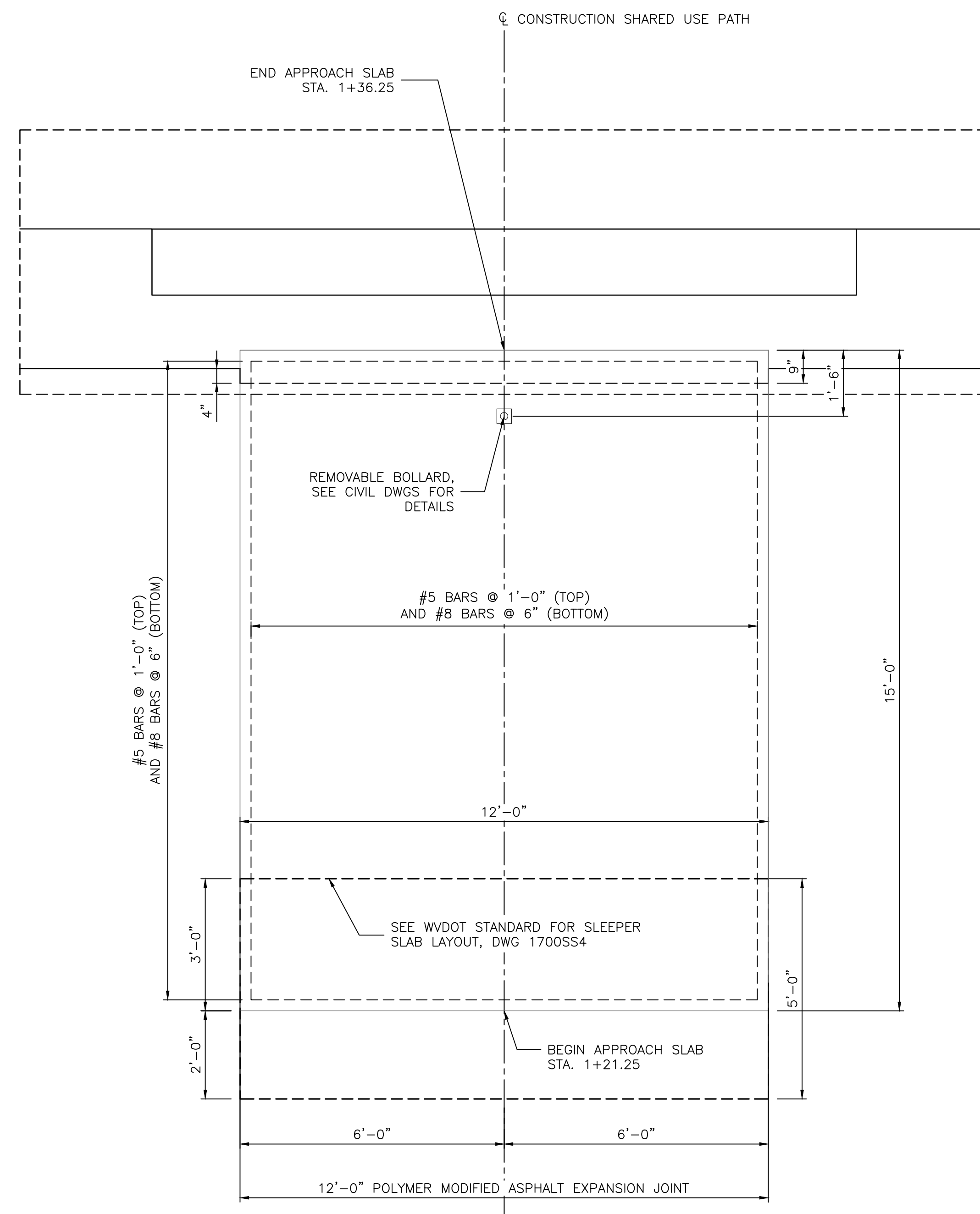
CONCEPTUAL TRANSVERSE SECTION VIEW @ SPAN 2
B
S200
ACTUAL DETAILED SECTION TO BE PROVIDED BY MANUFACTURER

Rev.	Description	By	Date
0	ISSUED FOR CONSTRUCTION	JRT	06/12/25

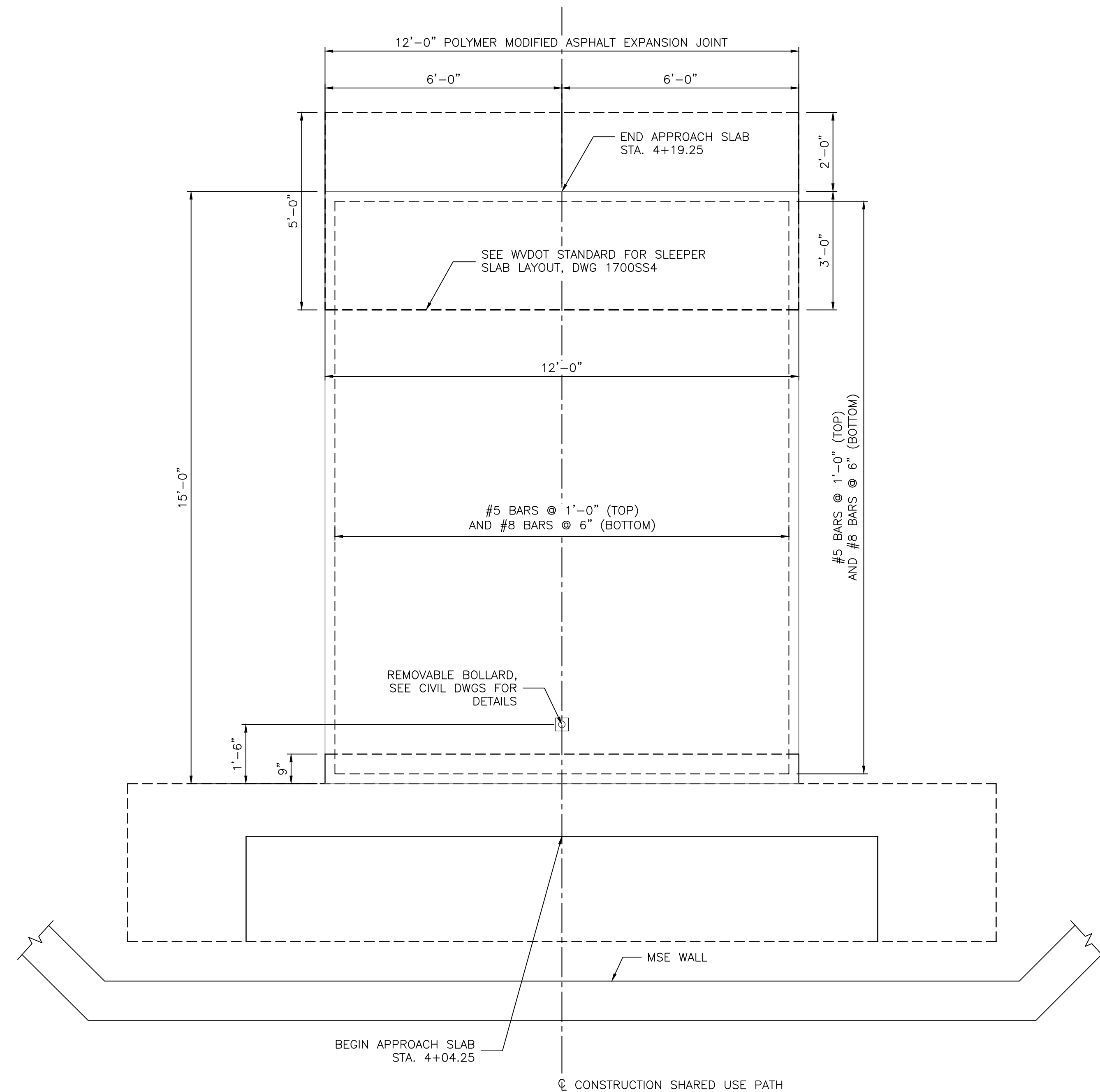
Drawing Description
CITY OF RAVENSWOOD
JACKSON COUNTY
PEDESTRIAN BRIDGE OVER SANDY CREEK
CONCRETE DECK PLAN & BRIDGE SECTIONS



Project:	2226039
Designed By:	ALN
Drawn By:	ALN
Checked By:	JRT
Scale:	AS NOTED
Plot Date:	06/12/25
Revision:	0
Drawing Number:	S200



REAR APPROACH SLAB PLAN
SCALE: $1/2" = 1'-0"$

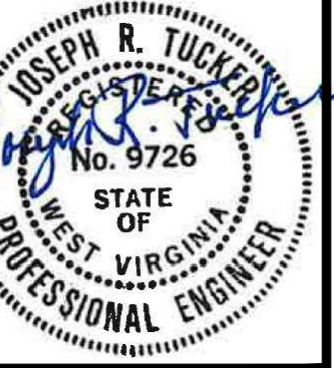


FORWARD APPROACH SLAB PLAN
SCALE: 1/2" = 1'-0"



0	ISSUED FOR CONSTRUCTION	JRT	06/12/25
Rev.	Description	By	Date

Planning Department
CITY OF RAVENSWOOD
JACKSON COUNTY
PEDESTRIAN BRIDGE OVER SANDY CREEK
APPROACH SLAB DETAILS




Project:	2226039
Designed By:	ALN
Drawn By:	ALN
Checked By:	JRT
Scale:	1/2" = 1'-0"
Plot Date:	06/12/25
Revision:	0
Drawing Number:	


S201


PLAN VIEW

ELEVATION


PLAN AND ELEVATION
SCALE: 1/2" = 1'-0"

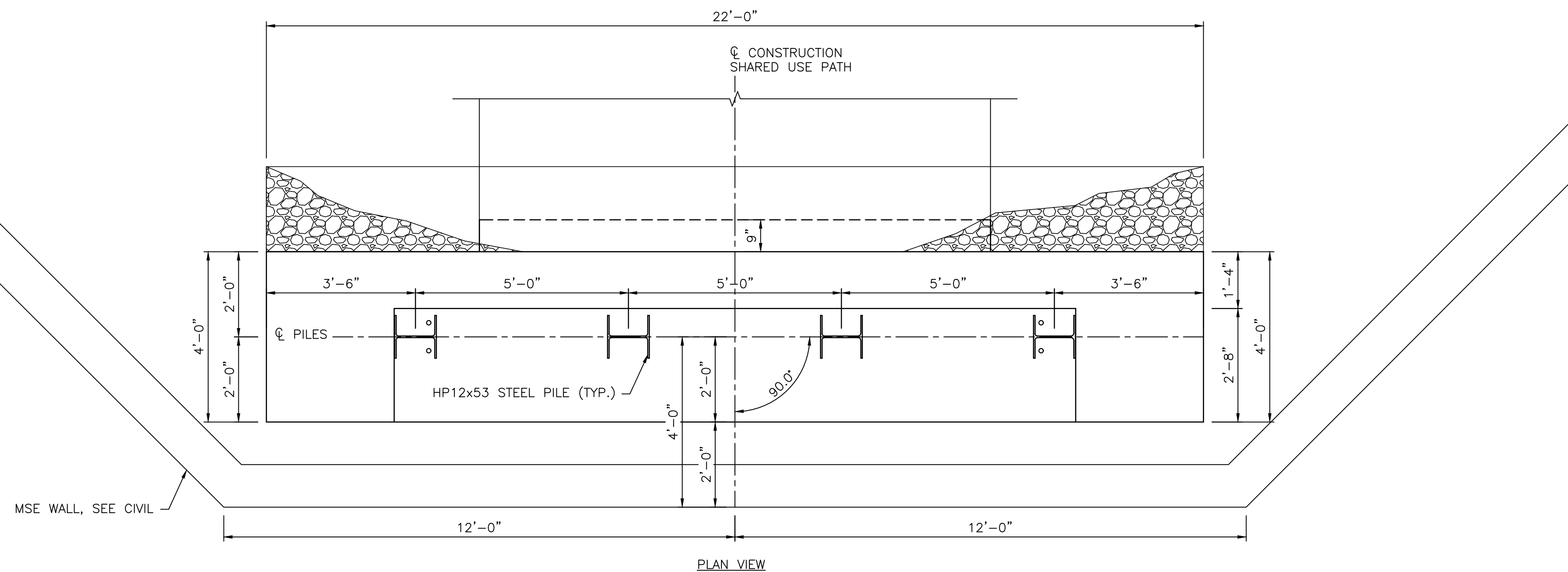

REAR ABUTMENT SECTION
 S300 SCALE: 1/2" = 1'-0"


REAR ABUTMENT SECTION
 S300 SCALE: 1/2" = 1'-0"

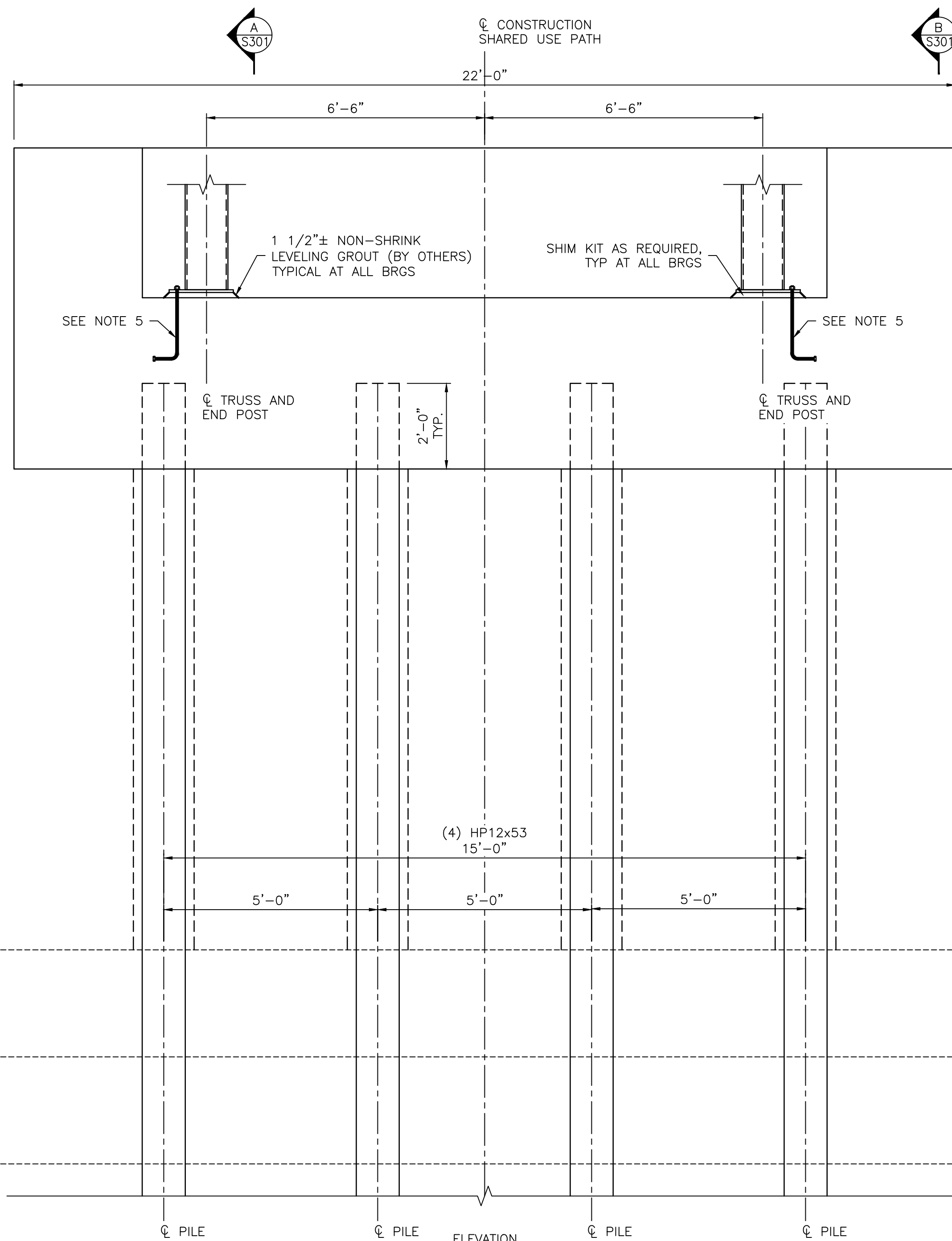
- 
- STEEL PILE, BATTERED FOUR VERTICAL TO ONE HORIZONTAL IN THE DIRECTION OF THE ARROW.
- NOTES
1. FOR OTHER ABUTMENT SECTIONS, SEE SHEET S301.
 2. MINIMUM BAR LAPS:
 LAP NO. 5 BARS 2'-11"
 LAP NO. 6 BARS 3'-5"
 LAP NO. 8 BARS 5'-9"
 3. 6" NON-PERFORATED CORRUGATED POLYETHYLENE PIPE AT ENDS SPliced TO PERFORATED PIPE AND OUTLET AS SHOWN IN THE PIPE TERMINATION DETAIL ON SHEET S500.
 4. CONFIRM BEARING SEAT ELEVATION WITH MANUFACTURER OF PEDESTRIAN BRIDGE.
 5. PEDESTRIAN BRIDGE MANUFACTURER SHALL PROVIDE (4) 1"x16" LONG WITH STANDARD HOOK GRADE B7 GALVANIZED ANCHOR BOLTS WITH (1) 3" O.D. WASHER AND (2) HEAVY HEX NUTS.
 6. SHOP DETAIL AND ERECTION DRAWINGS FOR REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

NOTES

										PICKERING ASSOCIATES <i>Architects • Engineers • Surveyors</i> 11283 Emerson Avenue Parkersburg, West Virginia 26104 Phone: (304) 464-5305 Fax: (304) 464-4428																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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PLAN VIEW



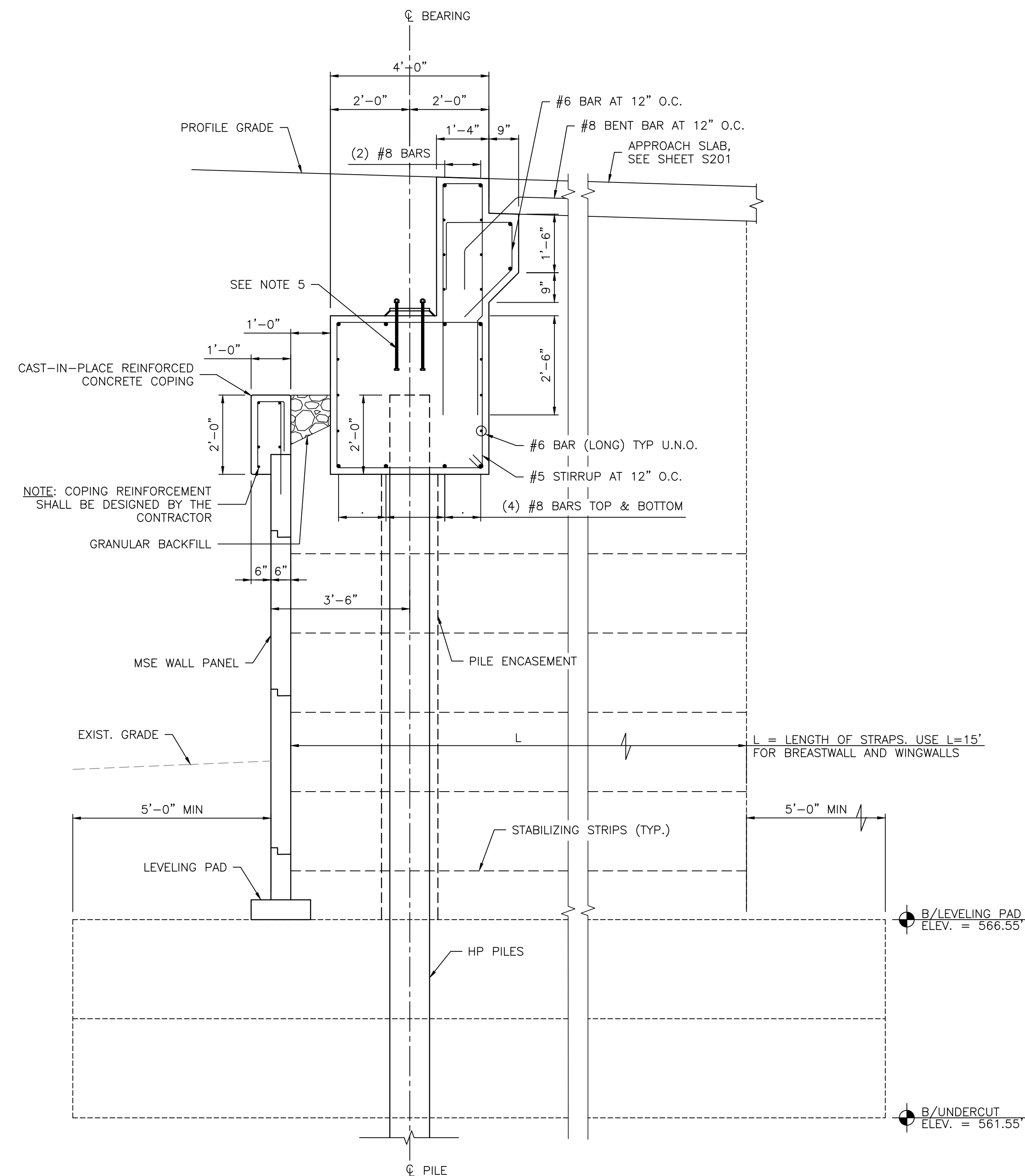
PLAN AND ELEVATION
SCALE: 1/2" = 1'-0"

- T/CONC. BACK WALL
ELEV. = 585.00'
- T/CONC. TRUSS SEAT
ELEV. = 581.78'
SEE NOTE 4
- T/MSE WALL
ELEV. = 579.78'
- B/ABUT. FOOTER
ELEV. = 577.78'

STEEL PILE, BATTERED FOUR VERTICAL TO ONE HORIZONTAL IN THE DIRECTION OF THE ARROW.

NOTES

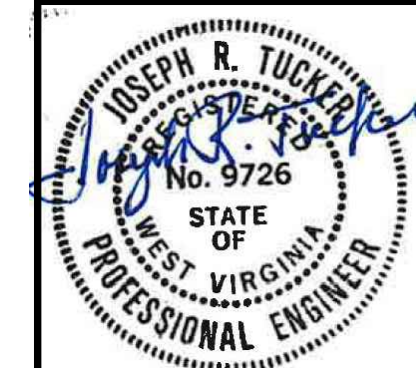
- FOR OTHER ABUTMENT SECTIONS, SEE SHEET S300.
- MINIMUM BAR LAPS:
LAP NO. 5 BARS 2'-11"
LAP NO. 6 BARS 3'-5"
LAP NO. 8 BARS 5'-9"
- 6" NON-PERFORATED CORRUGATED POLYETHYLENE PIPE AT ENDS SPliced TO PERFORATED PIPE AND OUTLET AS SHOWN IN THE PIPE TERMINATION DETAIL ON SHEET S500.
- CONFIRM BEARING SEAT ELEVATION WITH MANUFACTURER OF PEDESTRIAN BRIDGE.
- PEDESTRIAN BRIDGE MANUFACTURER SHALL PROVIDE (4) 1"x16" LONG WITH STANDARD HOOK GRADE B7 GALVANIZED ANCHOR BOLTS WITH (1) 3" O.D. WASHER AND (2) HEAVY HEX NUTS.
- SHOP DETAIL AND ERECTION DRAWINGS FOR REINFORCING STEEL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.



FORWARD ABUT. SECTION
SCALE: 1/2" = 1'-0"

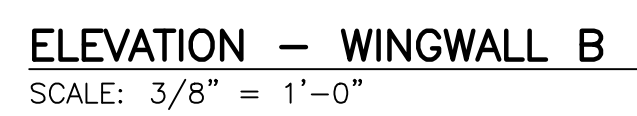
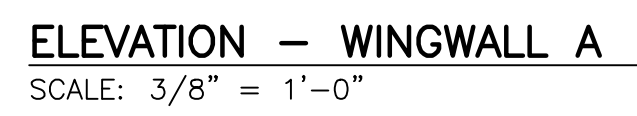
Rev.	By	Date	Description
0	JRT	06/12/25	ISSUED FOR CONSTRUCTION

Drawing Description
CITY OF RAVENSWOOD JACKSON COUNTY PEDESTRIAN BRIDGE OVER SANDY CREEK FORWARD ABUTMENT DETAILS 1



Project:	2226039
Designed By:	ALN
Drawn By:	ALN
Checked By:	JRT
Scale:	1/2" = 1'-0"
Plot Date:	06/12/25
Revision:	0
Drawing Number:	S301

1. SEE SHEET S001 FOR MSE WALL NOTES

CITY OF RAVENSWOOD
JACKSON COUNTY

FORWARD ABUTMENT - MSE WING WALLS



26039

LN

LN

RT

$$= 1'-0''$$

25

0

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S302b

S303



















S304

[illegible]
















ELECTRICAL SYMBOL LEGEND

	ALL ITEMS SHOWN AS DASHED ON DEMOLITION PLANS SHALL BE REMOVED. OTHERS NOTED OTHERWISE.
	FLUORESCENT, INCANDESCENT, OR LED TYPE LIGHTING FIXTURES COMPLETE WITH LAMPS. REFER TO LIGHT FIXTURE SCHEDULE FOR DETAILS.
	EXTERIOR POLE-MOUNTED LED FIXTURES
	COORDINATE NUMBER OF FACES AND THE DIRECTIONAL ARROWS, AS REQUIRED. CONNECTION TO THE EXIT LIGHT FIXTURE SHALL BE MADE AHEAD OF THE LOCAL LIGHT SWITCHING CIRCUIT.
	SINGLE AND DOUBLE LED REMOTE HEAD EMERGENCY EGRESS FIXTURES
	SINGLE POLE, 20A 120/277V SINGLE THROW SWITCH. MOUNT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	20A 120/277V THREE-WAY, SINGLE THROW SWITCH. MOUNT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	20A 120/277V FOUR-WAY, SINGLE THROW SWITCH. MOUNT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	20A 120/277V LOCK TYPE, HUBBELL SINGLE THROW SWITCH. MOUNT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	20A 120/277V SINGLE BUTTON ON/OFF OCCUPANCY SENSOR, MOUNT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	CEILING MOUNT OCCUPANCY SENSOR, COORDINATE POWER PACK REQUIREMENTS AND QUANTITIES WITH THE MANUFACTURER.
	PHOTOCELL LIGHTING CONTROLLER. NOTE DETAIL DRAWINGS FOR MOUNTING DETAIL.
	DUPLEX GROUNDING TYPE RECEPTACLE, 20A 120V. MOUNT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT. COORDINATE COLOR WITH OWNER.
	GROUND-FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLE, 20A 120V. MOUNT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	DUPLEX GROUNDING TYPE RECEPTACLE, 20A 120V. MOUNT 84" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	TWO (2) DUPLEX GROUNDING TYPE SPECIFICATION GRADE RECEPTACLE, 20A 120V. MOUNT IN COMMON BOX WITH COMMON PLATE 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	DUPLEX GROUNDING TYPE RECEPTACLE, 20A, 125V. MOUNT IN FLOOR BOX WITH COMMON PLATE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	TWO (2) DUPLEX GROUNDING TYPE RECEPTACLES, 20A, 125V. MOUNT IN FLOOR BOX WITH COMMON PLATE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	COMBINATION 3.1A/5VDC USB CHARGERS WITH 20A, 125V DUPLEX GROUNDING TYPE RECEPTACLES. MOUNT IN COMMON BOX WITH COMMON PLATE AT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	TWO (2) COMBINATION 3.1A/5VDC USB CHARGERS WITH 20A, 125V DUPLEX GROUNDING TYPE RECEPTACLES. MOUNT IN COMMON BOX WITH COMMON PLATE AT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	SUBSCRIPT "c" INDICATES DEVICE TO BE MOUNTED 6" ABOVE COUNTERTOP TO CENTERLINE.
	SUBSCRIPT "r" INDICATES RED DEVICE CONNECTED TO EMERGENCY POWER.
	SUBSCRIPT "wp" INDICATES DEVICE INSTALLATION AND ENCLOSURE SHALL BE WEATHER-PROOF
	SPECIAL RECEPTACLE OR FEED. REFER TO DRAWINGS FOR DESCRIPTION.
	480Y/277V, 3ø 4W PANELBOARD. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	208Y/120V, 3ø 4W PANELBOARD. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	240V, 3ø 3W PANELBOARD. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	240/120V, 1ø 3W PANELBOARD. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	POINT OF ELECTRICAL CONNECTION TO EQUIPMENT. CONFIRM EQUIPMENT CONNECTION REQUIREMENTS AND ARRANGEMENT PRIOR TO ROUGH-IN. VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWINGS AND ARCHITECT.
	ELECTRICAL CIRCUIT HOMERUN TO PANEL 'A' CIRCUIT #2 (EXAMPLE). ALL CIRCUIT WIRING SHALL BE (2) -#12 THHN/THWN CONDUCTORS AND (1) -#12 THHN/THWN GROUND CONDUCTOR IN 3/4" EMT, UNLESS NOTED OTHERWISE.
	NON-FUSED HEAVY-DUTY TYPE SAFETY DISCONNECT SWITCH. SIZE, POLES, AND NEMA TYPE AS INDICATED ON ELECTRICAL DRAWINGS.
	FUSED HEAVY-DUTY TYPE SAFETY DISCONNECT SWITCH. SIZE, POLES, FUSE SIZE, AND NEMA TYPE AS INDICATED ON ELECTRICAL DRAWINGS.
	COMBINATION MOTOR STARTER AND HEAVY-DUTY TYPE SAFETY DISCONNECT SWITCH. SIZE, POLES, FUSE SIZE, AND NEMA TYPE AS INDICATED ON ELECTRICAL DRAWINGS.
	STANDARD JUNCTION BOX WITH COVER. LOCATE AND CONNECT AS DIRECTED.
	HUBBELL QUAZITE 11"x18" PG STYLE POLYMER CONCRETE ENCLOSURE.

ELECTRICAL SYSTEM CONTROLS SYMBOL LEGEND

	CEILING SPEAKER, FLUSH MOUNTED DEVICE. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	SECURITY CAMERA, CEILING MOUNTED DEVICE. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR CAMERA LOCATIONS AND/OR DETAILS.
	SECURITY CAMERA, WALL MOUNTED DEVICE. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR CAMERA LOCATIONS AND/OR DETAILS.
	WIRELESS COMMUNICATIONS ACCESS POINT.
	THERMOSTAT CONTROL JUNCTION BOX. E.C. IS RESPONSIBLE FOR INSTALLATION OF ROUGH-IN BOX AND CONDUIT FOR EQUIPMENT INSTALLATION. VERIFY EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
	SPEAKER, SURFACE-MOUNTED DEVICE. REFER TO DRAWINGS AND/ OR SPECIFICATIONS FOR DETAILS.
	SINGLE-FACED CEILING/WALL MOUNTED CLOCK. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT PRIOR TO ROUGH-IN.
	ACCESS CONTROL PROXIMITY CARD READER. REFER TO DRAWINGS FOR DETAILS AND SPECIFICATIONS.
	ACCESS CONTROL DOOR RELEASE BUTTON. REFER TO DRAWINGS FOR DETAILS AND SPECIFICATIONS.
	JUNCTION BOX FOR TELEVISION CABLE OUTLET. MOUNT AT 84" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. PROVIDE 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING AND PROVIDE 3/4" WITH PULL STRING FROM BOX TO 1' ABOVE FINISHED CEILING. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.
	RJ45 TELEPHONE SYSTEM OUTLET. MOUNT AT 54" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. PROVIDE 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING AND PROVIDE 3/4" WITH PULL STRING FROM BOX TO 1' ABOVE FINISHED CEILING. INSTALL ONE (1) CAT 5e CABLE FROM OUTLET BOX TO COMMUNICATION ROOM AND TERMINATE AS DIRECTED BY THE OWNER. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.
	RJ11 TELEPHONE SYSTEM OUTLET. MOUNT AT 54" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. PROVIDE 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING AND PROVIDE 3/4" WITH PULL STRING FROM BOX TO 1' ABOVE FINISHED CEILING. <u>INSTALL ONE (1) CAT 5e CABLE FROM OUTLET BOX TO COMMUNICATION ROOM AND TERMINATE AS DIRECTED BY THE OWNER. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.</u>
	COMMUNICATION SYSTEM OUTLET. MOUNT AT 18" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. PROVIDE 4-11/16" SQUARE BOX WITH SINGLE-GANG PLASTER RING AND PROVIDE 3/4" WITH PULL STRING FROM BOX TO 1' ABOVE FINISHED CEILING. PROVIDE RJ45 & VOIP JACKS & COVER PLATE WITH FINAL TERMINATIONS AT JACK. INSTALL CAT6 CABLES (UNLESS DESIGNATED OTHERWISE) FROM OUTLET BOX TO COMMUNICATION ROOM AND TERMINATE TO PUNCH-DOWN BLOCK (OR AS DIRECTED BY THE OWNER), LABEL, AND TEST. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT. TYPICAL TWO COMMUNICATION WIRING (2) DROPS PER OUTLET LOCATION UNLESS OTHERWISE INDICATED BY SUBSCRIPT. (EXAMPLE: "3" INDICATES NUMBER THREE (3) NUMBER OF DROPS TO OUTLET LOCATION.)
	PUSH BUTTON. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	EMERGENCY STOP PUSH BUTTON. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	INTERCOM PAGING SYSTEM. REFER TO DRAWINGS FOR DETAILS AND SPECIFICATIONS.
	EMERGENCY LOCKDOWN KEYED SWITCH. REFER TO DRAWINGS FOR DETAILS AND SPECIFICATIONS.
	SECURITY MOTION DETECTOR.

FIRE ALARM AND DETECTION SYMBOL LEGEND

	AUDIBLE AND VISUAL SIGNAL. MOUNT AT 82" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED.
	VISUAL SIGNAL ONLY. MOUNT AT 82" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED.
	MANUALLY OPERATED PULL STATION MOUNT AT 46" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
	CARBON MONOXIDE DETECTOR MOUNTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
	AUTOMATIC SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED.
	COMBINATION AUTOMATIC SMOKE AND CARBON MONOXIDE DETECTOR TYPE CEILING MOUNTED
	AUTOMATIC DUCT SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED. CONNECT TO EXISTING SECURITY SYSTEM
	HEAT DETECTOR COMBINATION FIXED TEMP. AND RATE OF RISE, CEILING MOUNTED.
	FIRE ALARM SYSTEMS MAGNETIC DOOR HOLDER. MOUNT AT 84" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.
	REMOTE ANNUNCIATOR PANEL. MOUNT AT 54" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.
	FIRE ALARM CONTROL PANEL. MOUNT AT 54" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE. VERIFY EXACT LOCATION WITH THE ARCHITECTURAL DRAWINGS AND ARCHITECT.
	SPRINKLER SYSTEM FLOW SWITCH. FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, CONNECTED TO THE FIRE ALARM AND DETECTION SYSTEM BY THE ELECTRICAL CONTRACTOR. VERIFY LOCATION AND EXACT QUANTITY WITH THE EQUIPMENT PROVIDER PRIOR TO ROUGH-IN AND ZONE ADDRESSABLE MONITOR MODULE ALLOCATION.
	SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR, CONNECTED TO THE FIRE ALARM AND DETECTION SYSTEM BY THE ELECTRICAL CONTRACTOR. VERIFY LOCATION AND EXACT QUANTITY WITH THE EQUIPMENT PROVIDER PRIOR TO ROUGH-IN AND ZONE ADDRESSABLE MONITOR MODULE ALLOCATION.
	PUSH BUTTON. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.
	EMERGENCY STOP PUSH BUTTON. REFER TO DRAWINGS AND/OR SPECIFICATIONS FOR DETAILS.












ELECTRICAL DEMOLITION NOTES

1. THE GENERAL DEMOLITION NOTES LISTED HERE APPLY TO THE ELECTRICAL DEMOLITION. DRAWINGS IN ADDITION TO ANY CODED NOTES INDICATED ON THE DEMOLITION DRAWINGS.
2. AN ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL ITEMS TO REMAIN OR BE REMOVED. THE ELECTRICAL CONTRACTOR (EC) SHALL FIELD VERIFY EXISTING CONDITIONS AND REMOVE OR RELOCATE ANY ITEM WHICH INTERFERES WITH NEW CONSTRUCTION. THE SCHEDULED DEMOLITION IS BASED ON FIELD OBSERVATIONS AND EXISTING RECORD DOCUMENTATION. THE ELECTRICAL CONTRACTOR SHALL REPORT DISCREPANCIES TO THE OWNER OR ENGINEER BEFORE DISTURBING EXISTING INSTALLATIONS.
3. THE ELECTRICAL CONTRACTOR (EC) SHALL DISCONNECT AND REMOVE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT, ELECTRICAL DEVICES, CONDUIT AND WIRING, AND ALL EQUIPMENT ACCESSORIES IN THE AREA AS INDICATED ON THE DEMOLITION DRAWING. THE ELECTRICAL CONTRACTOR SHALL REMOVE UNUSED CONDUIT AND WIRING TO THE SOURCE OF ELECTRICAL DISTRIBUTION.
4. THE ELECTRICAL CONTRACTOR (EC) SHALL PROTECT ALL EXISTING EQUIPMENT AND EXISTING INSTALLATIONS ARE SCHEDULED TO REMAIN IN SERVICE FROM DAMAGE. REFLECT ANY ITEM WHOS WIRING IS INTERRUPTED DUE TO WORK IN ADJACENT AREAS.
5. THE ELECTRICAL CONTRACTOR (EC) SHALL REMOVE ALL HANGERS AND SUPPORTS SERVING CONDUIT AND WIRE BEING DEMOLISHED. PROVIDE AND/OR ADJUST EXISTING HANGERS TO SUPPORT ANY REMAINING CONDUIT AND WIRE, OR EQUIPMENT ADJACENT TO DEMOLISHED AREAS AND EQUIPMENT.
6. THE ELECTRICAL CONTRACTOR (EC) SHALL REMOVE ALL EXISTING WIRING AND CONDUITS BEING ABANDONED. ABANDONED CONDUITS SHALL BE CUT FLUSH AT CEILINGS AND FLOORS AND BE PROPERLY CLOSED.
7. MAKE ALL ELECTRICAL DEMOLITION SAFE FOR ALL PARTICIPATING CONTRACTORS. PROTECT ALL WIRING AND ELECTRICAL CONNECTIONS THAT REMAIN IN SERVICE FROM DAMAGE.





















ELECTRICAL CONSTRUCTION NOTES

1. THE DRAWINGS INDICATE GENERAL ELECTRICAL INSTALLATIONS AND ASSOCIATED EQUIPMENT QUANTITIES. ALL NEW INSTALLATIONS SHALL BE COORDINATED WITH THE OWNER.
2. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY PRESENCE OF ASBESTOS MATERIAL DISCOVERED DURING CONSTRUCTION. ANY ASBESTOS MATERIAL SHALL BE REMOVED BY OTHERS.
3. ALL BUILDING UTILITIES AND BUILDING STRUCTURES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR RESTORING ALL EXISTING FEATURES AND REPAIRING ANY UTILITIES DAMAGED BY CONSTRUCTION TO CONDITION SATISFACTORY TO THE OWNER.
4. ALL NEW ELECTRICAL INSTALLATIONS SHALL BE DOCUMENTED AND ELECTRICAL PANEL SCHEDULES UPDATED.
5. THE ELECTRICAL DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT AND DEVICES UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED FOR CLEARANCES. ALL ELECTRICAL EQUIPMENT ARE TO BE INSTALLED ALONG WITH THE GENERAL PLANS. ALL LABOR AND MATERIALS AND OTHER FIELD WORK NECESSARY TO PROVIDE MINOR CORRECTIONS IN ELECTRICAL WORK ARE REQUIRED TO AVOID CONFLICT WITH OTHER WORK OR CLEARANCES SHALL BE INCLUDED IN THE ELECTRICAL BID.
6. THE ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE FIRESEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS AND ASSEMBLIES CREATED BY NEW ELECTRICAL INSTALLATIONS OR THE SCHEDULED REMOVAL OF EXISTING INSTALLATIONS.

SECURITY SYSTEM AND CONTROLS LEGEND

	KEYPAD		ACCESS CONTROL PANEL
	REQUEST-TO-EXIT MOTION SENSOR		SECURITY SYSTEM CONTROL PANEL
	ELECTRIC STRIKE		VIDEO SERVER
	DOOR CONTACT		NODE
OHDC	OVERHEAD DOOR CONTACT		EXIT LATCH RETRACTION
	CARD READER		AIPHONE INTERCOM & CARD READER

MATERIALS

	FIBER-REINFORCED CONCRETE
	CONCRETE
	CONCRETE MASONRY
	BRICK OR HOT MIX ASPHALT
	WELL-GRADED STONE/GRAVEL
	UNIFORM-GRADED STONE/GRAVEL
	WOOD BLOCKING
	RIGID INSULATION
	BATT INSULATION
	STEEL
	SOIL
	BEDROCK
	SAND
	CARPET (SURFACE)
	HARDWOOD FLOOR (SURFACE)
	WOOD SHEATHING (SURFACE)
	CERAMIC TILE (SURFACE)
	VCT (SURFACE)
	CLAY TILE FLOORING (SURFACE)
	SAND/GYPSUM/HOT MIX ASPHALT (SURFACE)

ANNOTATIONS

	CODED NOTE
	DEMOLITION NOTE
	REVISION TAG
	ELEVATION VIEW REFERENCE TAG
	INTERIOR ELEVATION REFERENCE TAG
	SECTION VIEW REFERENCE TAG
	DETAIL REFERENCE TAG
	CALLOUT AREA FOR VIEW (OPTIONAL)
	ROOM TAG
	FIRST FLOOR EL. 100'-0"
	LEVEL REFERENCE TAG
	COLUMN GRID TAG
	BEARING ELEVATION OR TOP SURFACE ELEVATION
	MARK TAG
	SLOPE
	NORTH ARROWS

MATCHLINE MXXX

CALLOUT SHEET ON WHICH
THE DRAWING CONTINUES

The diagram shows a drawing reference tag. It consists of a circle with a crosshair inside, and a drawing title box. The drawing title box is a rectangle with a horizontal line through the middle. The top half of the box contains the text "DRAWING TITLE" and the scale "SCALE: 1/8"=1'-0"". The bottom half of the box contains the text "DRAWING REFERENCE" and the drawing reference "A". The drawing reference "A" is also shown in a circle to the left of the title box. The drawing reference "A" is also shown in a circle to the left of the title box. The drawing reference "A" is also shown in a circle to the left of the title box.

DETAIL REFERENCE

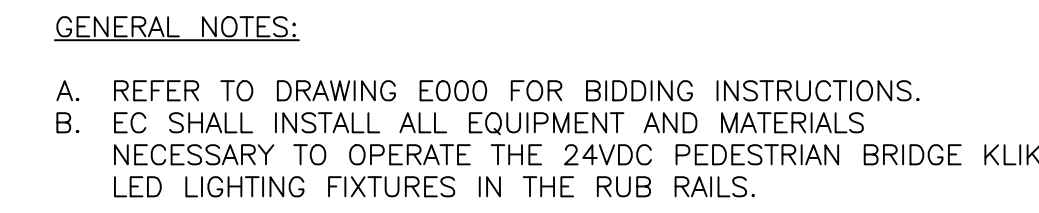
DRAWING TITLE

SCALE: 1/4"=1'-0"

DETAIL LOCATION


DETAIL REFERENCE TAG LOCATION

[illegible]



CODED NOTES:

1. INSTALL THE PEDESTRIAN BRIDGE POWER SUPPLY (P.S.) ENCLOSURES IN THE POSITION INDICATED UNDER THE BRIDGE WALKWAY. ROUTE THE NORTH SIDE LIGHTING LIGHT CIRCUIT TO THE ENCLOSURES. EACH ENCLOSURE SHALL HAVE (2) 240 VOLT AC TO 24VDC P.S. FOR LED FIXTURES. SUPPLY A MAXIMUM OF 22 LED FIXTURES FORM EACH P.S. REFER TO THE LIGHTING SCHEDULE FOR THE MANUFACTURER'S MODEL NUMBER FOR THE SPECIFIED P.S. & ENCLOSURE.
2. INSTALL THE PEDESTRIAN BRIDGE POWER SUPPLY (P.S.) ENCLOSURES IN THE POSITION INDICATED UNDER THE BRIDGE WALKWAY. ROUTE THE SOUTH SIDE LIGHTING LIGHT CIRCUIT TO THE ENCLOSURES. EACH ENCLOSURE SHALL HAVE (2) 240 VOLT AC TO 24VDC P.S. FOR LED FIXTURES. SUPPLY A MAXIMUM OF 22 LED FIXTURES FORM EACH P.S. REFER TO THE LIGHTING SCHEDULE FOR THE MANUFACTURER'S MODEL NUMBER FOR THE SPECIFIED P.S. & ENCLOSURE.
3. ROUTE PEDESTRIAN PATH LIGHTING CIRCUIT CONDUITS UNDER THE BRIDGE. ROUTE LIGHTING CIRCUIT ASSOCIATED WITH NORTH AND SOUTH ROUTES ON DRAWINGS E101 & E103. INSTALL NEMA-4X JUNCTION BOXES FOR PER CABLE INSTALLATION REQUIREMENTS PER NEC.

[illegible]

**PEDESTRIAN BRIDGE
ELECTRICAL LIGHTING PLAN**

SCALE: N.T.S.



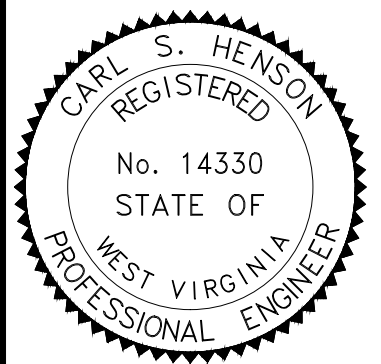
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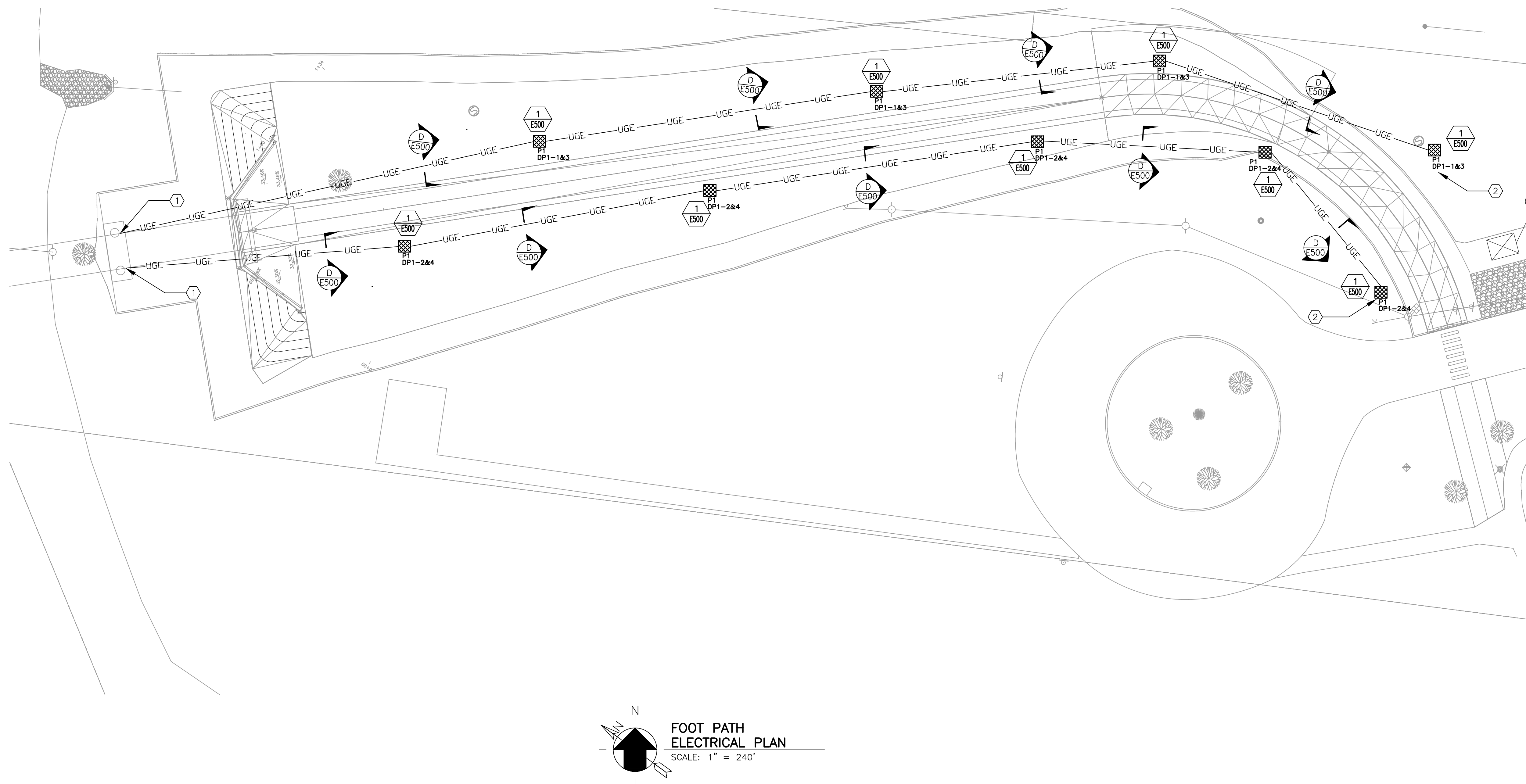
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Drawing Description
CITY OF RAVENSWOOD RAVENSWOOD, WV
PEDESTRIAN BRIDGE ELECTRICAL SITE PLAN



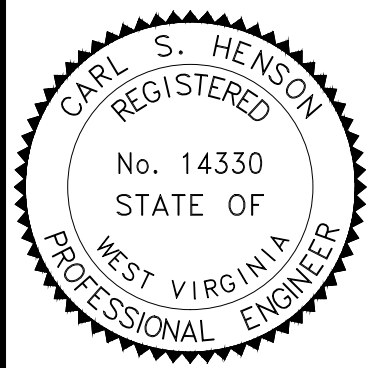
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Drawn By:	EGB
Checked By:	CSH
Scale:	AS NOTED
Plot Date:	06/12/25
Revision:	0
Drawing Number:	

E102

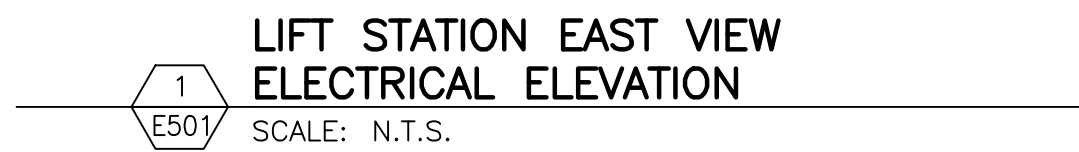


GENERAL NOTES:

 CODED NOTES:

[illegible]

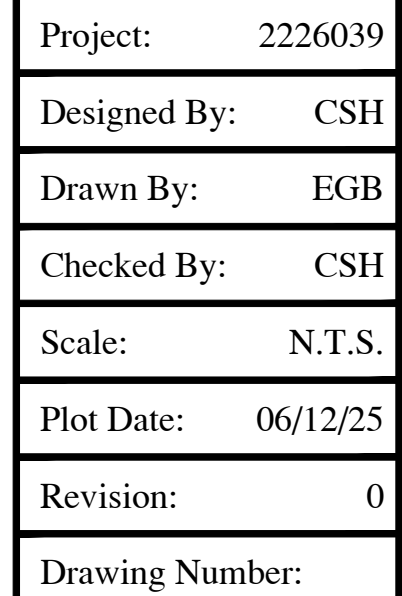
E103



1. EC SHALL INSTALL THE INDICATED FEED FROM THE LOAD SIDE OF THE DISCONNECT SWITCH TO PANEL DP1. FEED SHALL BE A 120/240-VOLT SINGLE-PHASE FEED. EC SHALL NOTE THE HIGH-LEG OF THE INCOMING SERVICE AND NOT UTILIZE THIS PHASE IN FEEDING DP1.. MAKE ALL MODIFICATIONS TO DISCONNECT REQUIRED FOR FEED. REFER TO DETAIL 3/E501 FOR FEEDER SIZE. FEED SHALL BE 3-METERS MAXIMUM IN LENGTH FROM DISCONNECT PER NEC.
2. EC SHALL INSTALL A NEW 120/240-VOLT SINGLE-PHASE 3-WIRE PANEL TO FEED NEW LIGHTING CIRCUITS. PURCHASE AND INSTALL ALL CIRCUIT BREAKERS LISTED ON PANEL SCHEDULE DP1. WEATHER-PROOF ALL CONDUIT PENETRATIONS. GROUND NEUTRAL & GROUND BUS PER NEC & ELECTRICAL UTILITY REQUIREMENTS.
3. EC SHALL PURCHASE AND INSTALL A TYPE 1 SURGE PROTECTION DEVICE (SPD) IN ACCORDANCE WITH NEC ARTICLE 242. DEVICE SHALL HAVE A MINIMAL CIRCUIT INTERRUPT RATING OF 5KA. PROVIDE DEVICE IN WETHER-PROOF ENCLOSURE AS REQUIRED. INSTALL SPD ON LINE SIDE OF MAIN CIRCUIT BREAKER.
4. EC SHALL INSTALL A #6 BARE SOLID COPPER GROUNDING BONDING JUMPER FROM THE NEW DISTRIBUTION PANEL TO THE EXISTING GROUNDING ELECTRODES. THE BONDING JUMPER SHALL BE BONDED TO THE GROUND BUS OF THE DISTRIBUTION PANEL DP1. SECURE THE BONDING JUMPER TO THE EXISTING PUMP STATION STRUCTURE.
5. EC SHALL PURCHASE, FABRICATE, AND INSTALL THE EXTERIOR LIGHTING CONTROL PANEL AS INDICATED. MOUNT CONTROL PANEL TO ELECTRICAL SERVICE UTILITY POLE. ORIENTATE THE PHOTO CELL SOUTH FOR LIGHTING OPERATION. PANEL SHALL BE NEMA-4X. H-O-A SWITCH SHALL BE MOUNTED INSIDE THE PANEL. SIZE PANEL TO ENCOMPASS ALL MATERIAL NECESSARY FOR CIRCUIT OPERATION. REFER TO DETAIL 2/E501 FOR SCHEMATIC DIAGRAM.
6. EC SHALL CONSTRUCT A METAL STAND ON THE ROOF OF THE EXISTING LIFT STATION PLATFORM TO MOUNT THE NEW SERVICE, PANEL DP1 AND THE LIGHTING CONTROL ENCLOSURE ABOVE THE 100-YEAR FLOOD PLANE. STRUCTURE SHALL BE CONSTRUCTED OF GALVANIZED STEEL. ROUTE ALL CONDUITS FROM PANE DP1 TO THE LIGHTING CONTROLLER. ROUTE ALL CONDUITS FOR FOR LIGHTING CIRCUITS UNDERGROUND AS INDICATED ON DRAWINGS.
7. EC SHALL REPLACE THE EXISTING WOODEN ACCESS PLATFORM AND STAIRS. NEW PLATFORM SHALL PROVIDE A MINIMAL OF 3 FEET OF ACCESS TO ALL ELECTRICAL EQUIPMENT PER NEC REQUIREMENTS. ACCESS PLATFORM SHALL EXTEND THE COMPLETE WIDTH OF THE LIFT STATION EAST SIDE. PROVIDE SAFETY RAILS, FLOORING, AND FENCING, MODIFY THE EXISTING FENCE GATE AS REQUIRED, FOR NEW ACCESS PLATFORM STAIRS. CONSTRUCT PLATFORM PER STRUCTURAL LUMBER SPECIFICATION ON DRAWING S000.
8. INSTALL A 120-VOLT 20-AMP GFI RCPTACLE AND WEATHERPROOF COVER IN THE POSITION INDICATED. REFER TO DP1 PANEL SCHEDULE FOR CIRCUIT BREAKER. FEED SHALL BE (2) - #12 & #12 EGC IN 3/4 INCH RMC.

[illegible]

Drawing Description
CITY OF RAVENSWOOD RAVENSWOOD, WV
PEDESTRIAN BRIDGE
ELECTRICAL DETAILS, ELEVATIONS & SECTIONS CUTS



E501

EXTERIOR LIGHT FIXTURE SCHEDULE

DESIGNATION	FIXTURE	DESCRIPTION	BASIS OF DESIGN										NOTES/COMMENTS
			LAMP TYPE	TEMP	CRI	LUMENS	VOLTAGE	WATTS	DIMMING	MOUNTING	MFG.	MODEL	
P1	A	EXTERIOR LED, MULTI-VOLT, DIMMABLE LED, ON 15FT SQUARE POLE	LED	40K	70	5145/ FIXTURE	120-277	61/ FIXTURE	0-10V	12FT SQUARE POLE	STERNBERG LIGHTING	PT-1190ALED-5P-16L-40-T3 -MDL014-A-PEC-FHD-BKT	POLE SHALL BE A STERNBERG LIGHTING MODEL: 3900 RICHMOND SERIES NUMBERR 39-12-FP4-.125-GFI-BK NOTE 6.
P2	B	EXTERIOR LED GENERAL PURPOSE AREA LIGHT FIXTURE MULTI-VOLT, FOUR LIGHT FIXTURES PER POLE. FUSING PROVIDED PER FIXTURE, POLE 30FT 5 INCH SQUARE	LED	50K	80	266/ FIXTURE	120-277	1064 TOL.	0-10V	30FT SQUARE POLE	LITHONIA	RSX3-LED-P3-50K-R4-MVOLT -SPA-PE-DF-EGS-DBXD	FIXTURES SHALL HAVE SPLITITER MOUNTS LIGHT POLES SHALL HAVE (4) FIXTURES PER POLE. NOTE 3, NOTE 4
P3	C	MINIMALIST POINT SOURCE LED FOR HOLLOW METAL STRUCTURES, VOLTAGE 24 VDC,	LED	40K	-	157	24 VDC	2.5/ FIXTURE	0-10V	MOUNTED IN HANDRAIL	KLIK USA	LPXL-28-F00-40K-2.5-A-FLD -ANO	FIXTURES MOUNTED IN HANDRAIL PRE-DRILLED HOLES. POWER SUPPLIES NOTE 7 BOXES NOTE 8

FIXTURE SCHEDULE NOTES

- | |
|---|
| 1.0 NA = NOT APPLICABLE |
| 2. MULT = MULTI VOLTAGES 120 - 277 VOLTS |
| 3. POLE SHALL BE A LITHONIA MODEL SSS-30-5G-XXX-XXXX/xy-DBDXD, EC SHALL COORDINATE WITH THE MOUNTING REQUIREMENTS FOR FIXTURES. |
| 4. LIGHT FIXTURE MOUNTING BRACKET SHALL BE LITHONIA MODEL SBS38-DBDXD |
| 5. NOT USED |
| 6. FUSE BLOCK LOCATED IN BASE OF LIGHT POLE. |
| 7. POWER SUPPLIES, KLIK USA MODEL#, LP096WPRITRNDIM |
| 8. BOXES, HAMMOND MANUFACTURING#, EJ1486, ANSI 61 GRAY, NEMA-4 CONSTRUCTION, SUPPLY WITH BACK-PANEL |

PANEL DESIGN: DP1				VOLTAGE: 240/120V 1PH 3W					
LOCATION: PARK				FED FROM: SERVICE DISCONNECT					
MOUNTING: SURFACE				MAIN BREAKER SIZE: 100-AMP					
NO. OF CKTS: 22				PANEL BUS SIZE: 125-AMP					
ALL PHASES TO BE BALANCED WITHIN 7% USING ACTUAL CONNECTED LOAD									
LOAD DESCRIPTION	(VA)	WIRE SIZE	CB/P	CKT. NUM.	CKT. NUM.	CB/P	WIRE SIZE	(VA)	LOAD DESCRIPTION
LGTS. PEDESTRIAN BRIDGE EAST SIDE LEDS	256	#8	20/2	01 *--- 02	03 ---* 04	20/2	#8	256	LGTS. PEDESTRIAN BRIDGE WEST SIDE LEDS
LGTS. PEDESTRIAN PATH EAST SIDE POLES	366	#8	20/2	05 *--- 06	07 ---* 08	20/1	#8	366	LGTS. PEDESTRIAN PATH WEST SIDE POLES
LGTS. CONTROL CIRCUIT	150	#12	20/1	09 *--- 10	20/1	#10	2128	LGTS. PARKING LOT POLES FIXTURES	
RECP.	180	#12	20/1	11 ---* 12	20/1				
--	--	--	20/1	13 *--- 14	20/1	--	--		
--	--	--	20/1	15 ---* 16	20/1	--	--		
--	--	--	20/1	17 *--- 18	20/1	--	--		
--	--	--	20/1	19 ---* 20	20/1	--	--		
--	--	--	20/1	21 *--- 22	20/1	--	--		
N.E.C. Connected Load Summary				Breaker Options (if used)					
Lighting: 3.37 KVA	Motors: -- KVA			AS = Powerlink "AS" breaker		Q0 = Standard "Q0B" Bolt-On Brkr.			
Recept: 0.36 KVA	Heating: -- KVA			LO = Lock-On Device		HR=HACR Rated Circuit Breaker			
Equipment: 0.15 KVA	Total: 3.88 KVA 16.74 Amps			GF = GND Fault CKT Interrupter					

PANEL DP1
SCHEDULE

SCALE: N.T.S.

GENERAL NOTES:

A. LIGHTING FIXTURE SUBSTITUTIONS PER THE APPROVAL OF THE OWNER AND ENGINEER.

 CODED NOTES:

1. EC SHALL INSTALL NEW DISTRIBUTION PANEL PER SCHEDULE. PANEL BASIS OF DESIGN IS GE MODEL TM1212RCU WITH TKG24 EQUIPMENT GROUND KIT. SUBSTITUTIONS PERMITTED.



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0	ISSUED FOR CONSTRUCTION	CSH	66/12/25
Rev.	Description	By	Date

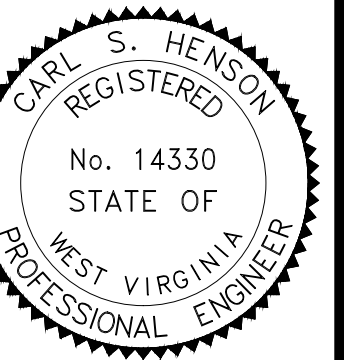
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CITY OF RAVENSWOOD

RAVENSWOOD, WV

PEDESTRIAN BRIDGE

ELECTRICAL SCHEDULES & TABLES

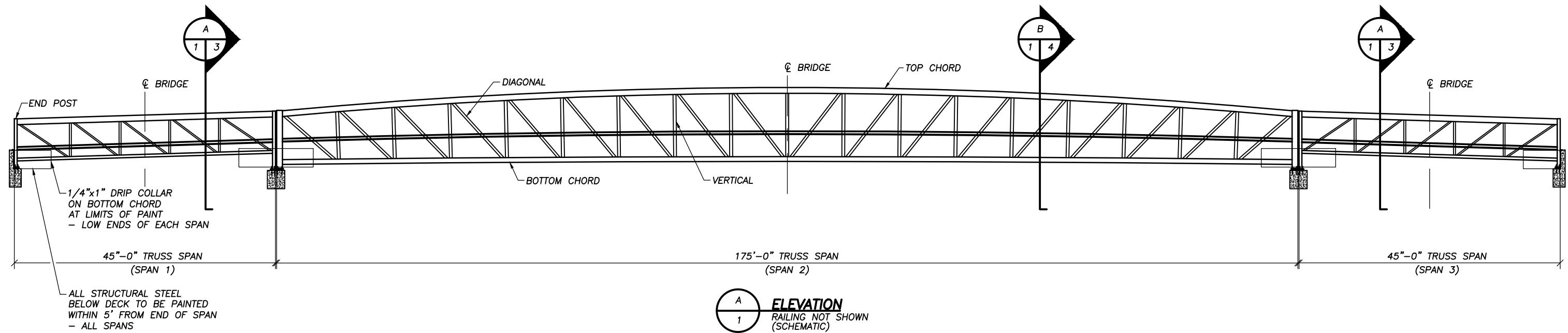


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Designed By:	CSH
Drawn By:	EGB
Checked By:	CSH
Scale:	N.T.S.
Plot Date:	06/12/25
Revision:	0
Drawing Number:	

Drawing Number:

E600

INFORMATION ONLY



DO NOT SCALE DRAWINGS

BRIDGE SPAN REACTIONS (SPANS 1 & 3)			
COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED			
LOAD	P lbs	H lbs	L lbs
DEAD	19,000		
UNIFORM LIVE	12,000		
VEHICLE	12,200		
WIND		7,400	2,200
WINDWARD	-7,700		
LEEWARD	3,000		
STREAM	-8,700	1,200	
THERMAL			3,800
"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)			
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE SPAN)			
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)			

BRIDGE SPAN REACTIONS (SPAN 2)			
COMBINE REACTIONS AS PER LOCAL OR GOVERNING BUILDING CODES AS REQUIRED			
LOAD	P lbs	H lbs	L lbs
DEAD	77,100		
UNIFORM LIVE	47,000		
VEHICLE	12,800		
WIND		31,400	9,400
WINDWARD	-31,900		
LEEWARD	13,500		
STREAM	-34,000	5,000	
THERMAL			15,400
"P" - VERTICAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)			
"H" - HORIZONTAL LOAD EACH FOOTING (2 PER BRIDGE SPAN)			
"L" - LONGITUDINAL LOAD EACH BASE PLATE (4 PER BRIDGE SPAN)			

SHEET TITLE:

GENERAL ELEVATION

45'-0" & 175'-0" PEDESTRIAN BRIDGES

12'-0" WALKWAY

PRELIM

Wheeler

9531 West 78th Street - Suite 100
Eden Prairie, MN 55344
952-929-7854
info@wheeler1892.com
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DATE: 7/17/2023

TRACKING NO. T23590

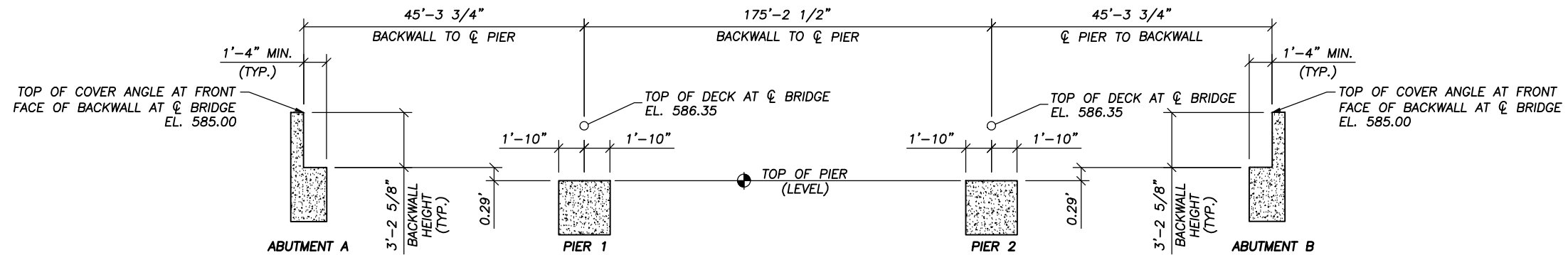
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DWN: OVG

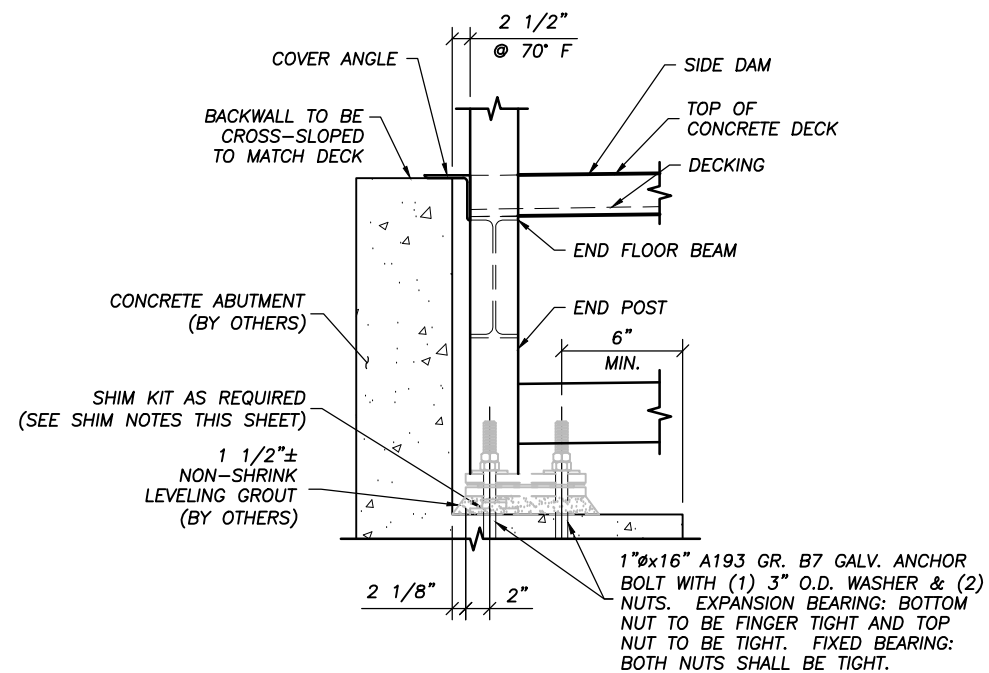
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1 of 4

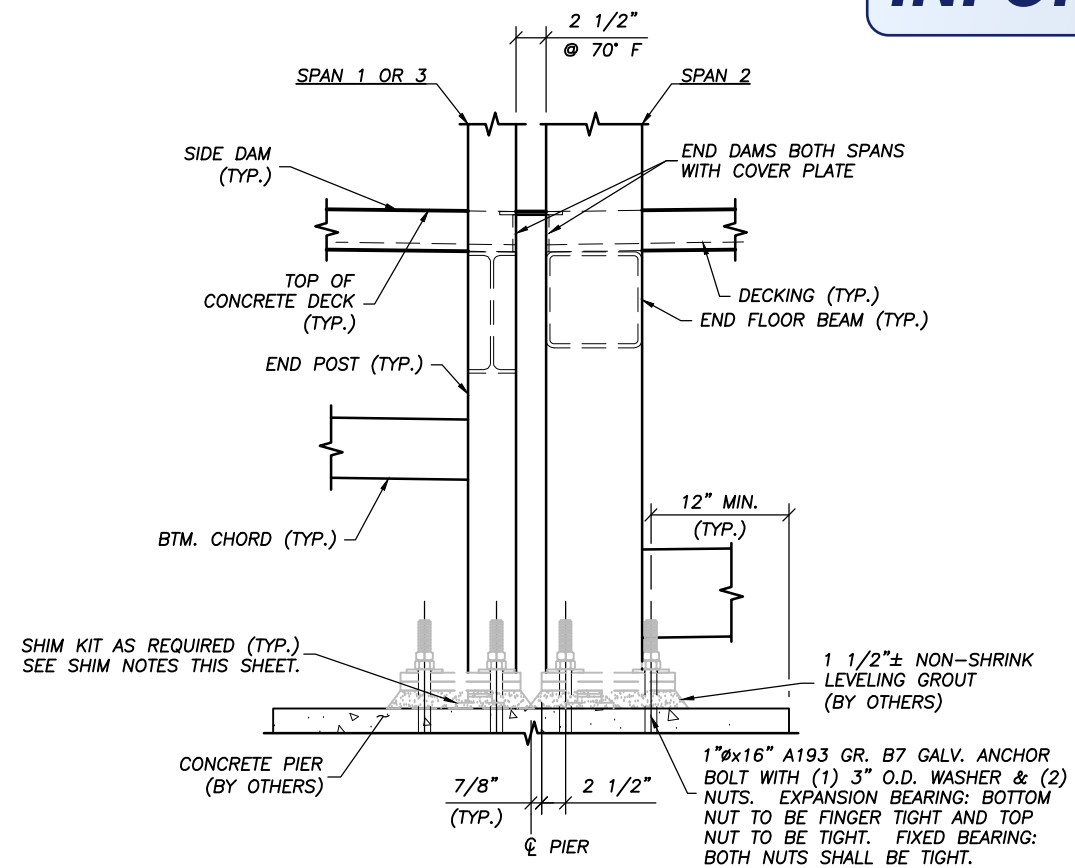


A
2
SUBSTRUCTURE LAYOUT
(BY OTHERS)
(SCHEMATIC)

INFORMATION ONLY



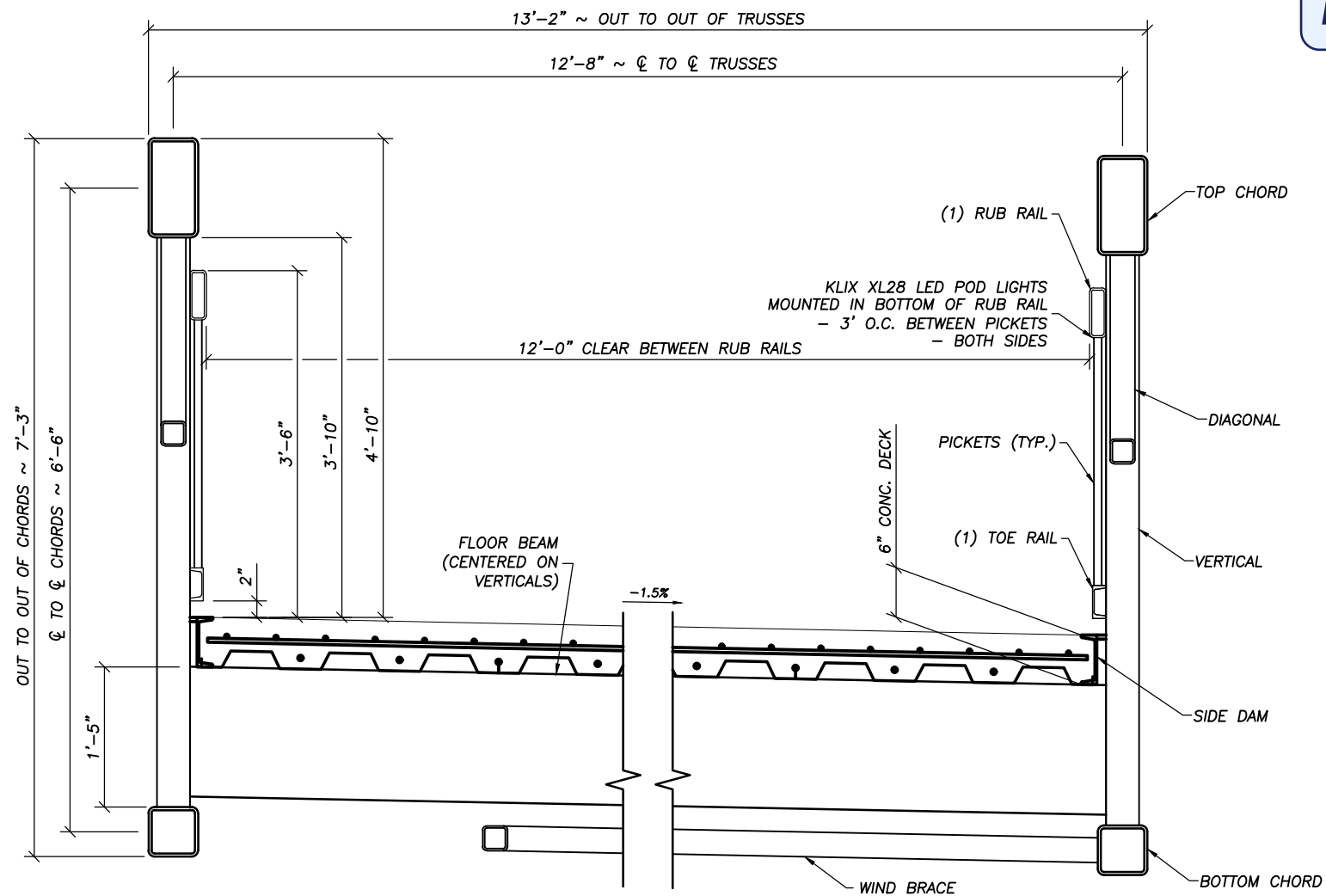
B
2
ABUTMENT BEARING DETAIL
(BY OTHERS)
(SCHEMATIC)



C
2
PIER BEARING DETAIL
(BY OTHERS)
(SCHEMATIC)

DO NOT SCALE DRAWINGS

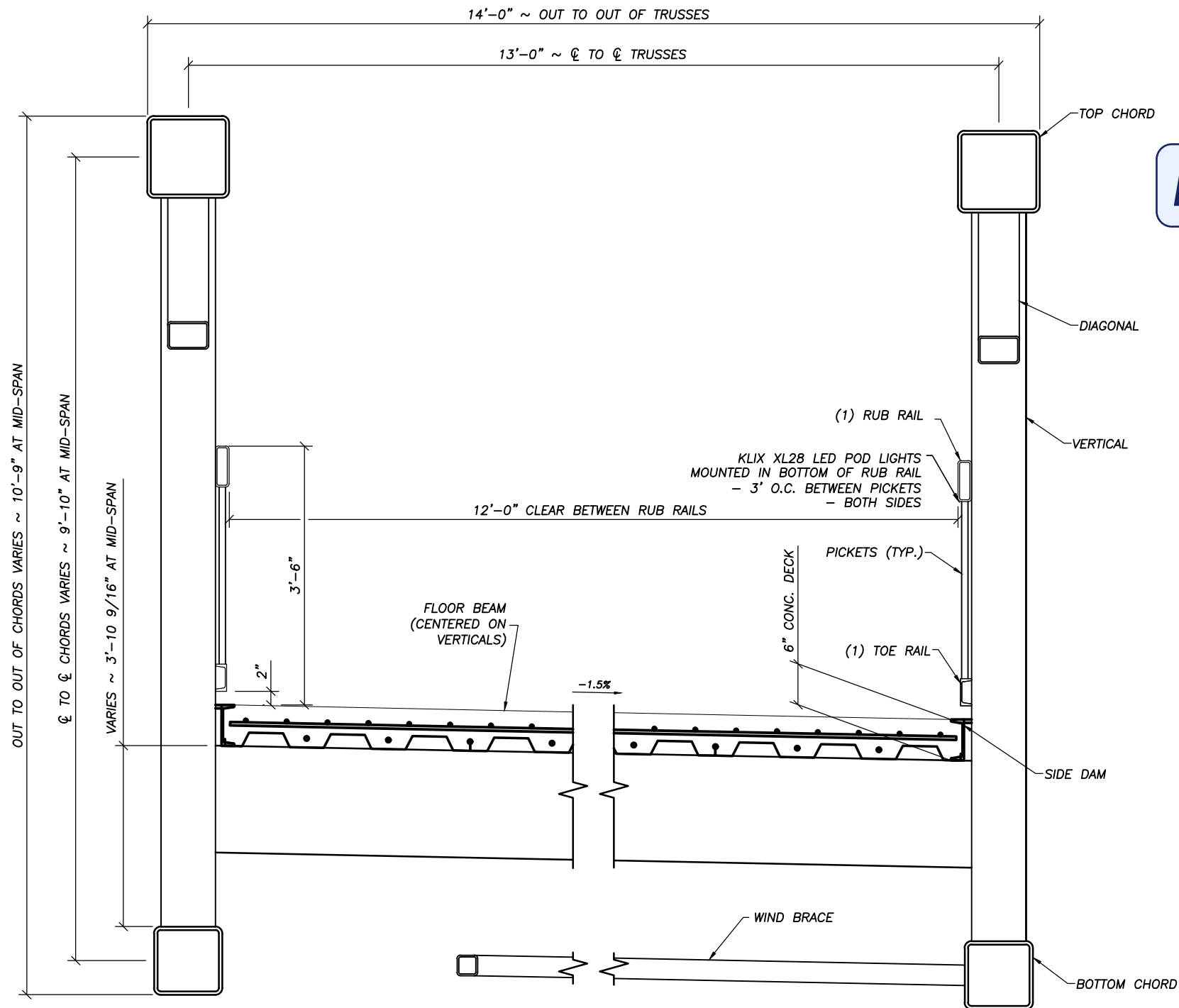
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12'-0" WALKWAY		
PRELIM		
<div> <div>Wheeler</div> <div>9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com</div> </div>		
DATE: 7/17/2023	TRACKING NO. T23590	SHEET NO.
CHK: DNC	DWN: OVG	ORDER NO.
		2 OF 4



TYPICAL SECTION VIEW
SPANS 1 & 3
(SCHEMATIC)

DO NOT SCALE DRAWINGS

SHEET TITLE: SECTION DETAILS (SPANS 1 & 3)		
45'-0" & 175'-0" PEDESTRIAN BRIDGES 12'-0" WALKWAY		
PRELIM		
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DATE: 7/17/2023	TRACKING NO. T23590	SHEET NO. 3 OF 4
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ORDER NO.		

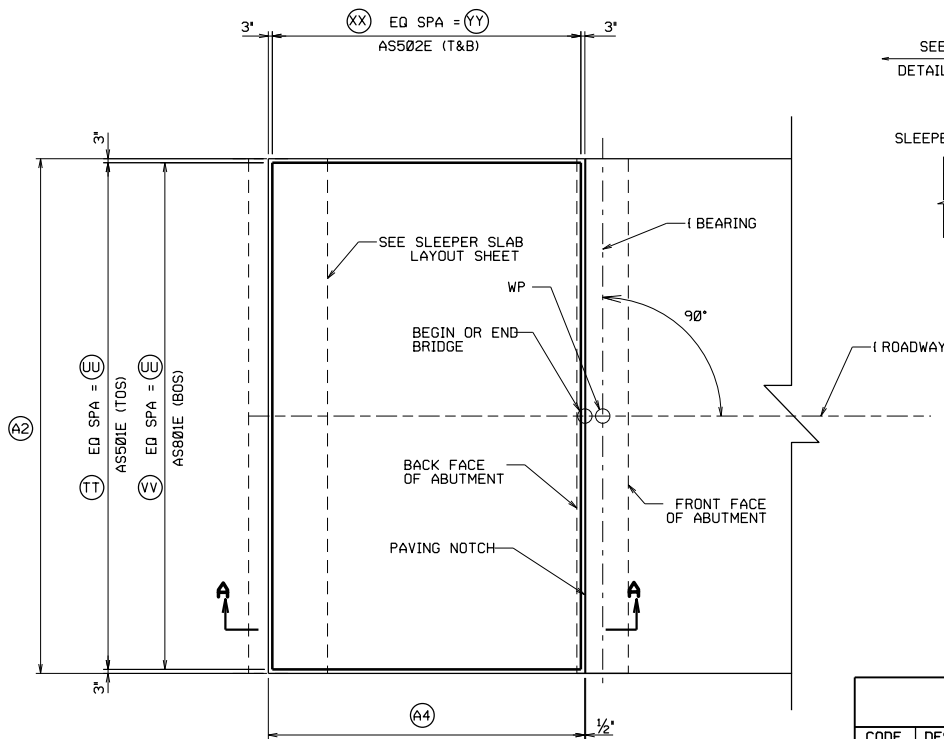


MID-SPAN SECTION VIEW
SPAN 2
(SCHEMATIC)

INFORMATION ONLY

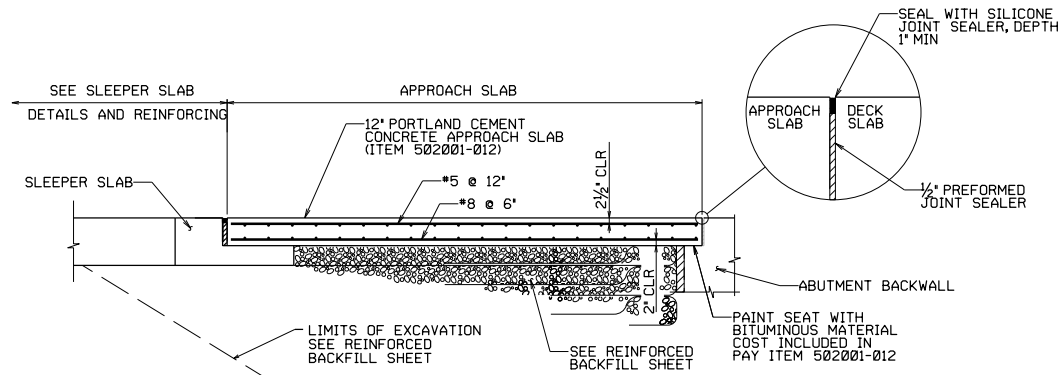
DO NOT SCALE DRAWINGS

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12'-0" WALKWAY			
PRELIM			
		9531 West 78th Street - Suite 100 Eden Prairie, MN 55344 952-929-7854 info@wheeler1892.com wheeler1892.com	
		DATE: 7/17/2023	TRACKING NO. T23590
CHK: DNC	DWN: OVG	ORDER NO.	SHEET NO. 4 OF 4



APPROACH SLAB PLAN

DECK CONTROL DIMENSIONS		
CODE	DESCRIPTION	DIMENSION
A2	OVERALL WIDTH	12'-0"
A4	APPROACH SLAB LENGTH	15'-0"



SECTION A-A

REBAR CONTROL DIMENSIONS		
CODE	DESCRIPTION	DIMENSION
TT	NUMBER OF EQUAL SPACES FOR TOP LONGITUDINAL REBAR	13
UU	DISTANCE OF TOP AND BOTTOM LONGITUDINAL REBAR	11'-6"
VV	NUMBER OF EQUAL SPACES FOR BOTTOM LONGITUDINAL REBAR	29
XX	NUMBER OF EQUAL SPACES FOR TOP AND BOTTOM TRANSVERSE REBAR	15
YY	DISTANCE OF TOP AND BOTTOM TRANSVERSE REBAR	14'-6"

BILL OF REINFORCING STEEL			
LONGITUDINAL STEEL			
MARK	TYPE	NUMBER	LENGTH
AS501E	STR	13	14'-6"
AS801E	STR	29	14'-6"
TRANSVERSE STEEL			
MARK	TYPE	NUMBER	LENGTH
AS502E	STR	32	11'-6"

NOT TO SCALE

ADDITIONAL DETAILS NEEDED	
SERIES	SHEET NUMBER
1700	
1710	

SEE ROADWAY DETAILS

RDW PVMT BASE TRANSITION

20'-0"

16'-0"

4'-0" MIN (ALONG PGL)

ASPHALT PAVEMENT (SEE ROADWAY DETAILS)

SEE *SLEEPER SLAB MISCELLANEOUS DETAIL* (2 OF 2)

2 LAYERS OF 6 MIL POLYETHYLENE BOND BREAKER

APPROACH SLAB

TYPE 2 SLEEPER SLAB, SEE DETAILS BELOW INCIDENTAL TO APPROACH SLAB ITEM 502001-012

H OR FLATTER

IF FREE DRAINING BASE COURSE THEN ADD OUTLET TO INTERCEPT ANY POTENTIAL FLOW INTO ABUTMENT BACKFILL

INCREASE DEPTH OF AGGREGATE BASE COURSE TO MATCH BOTTOM OF SLEEPER SLAB

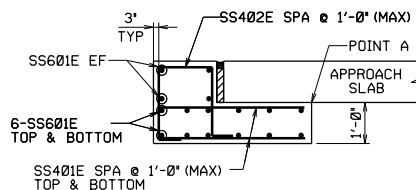
LIMITS OF EXCAVATION

TYPE 2 SLEEPER SLAB WITH ASPHALT ROADWAY APPROACH

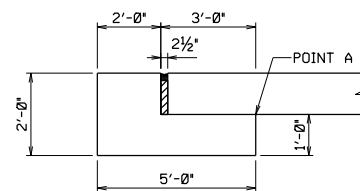
DECK CONTROL DIMENSIONS		
CODE	DESCRIPTION	DIMENSION
A2	OVERALL WIDTH	12'-0"
A6	LENGTH FROM PAVING NOTCH TO FRONT FACE OF SLEEPER SLAB	N/A

REBAR CONTROL DIMENSIONS		
CODE	DESCRIPTION	DIMENSION
TT	NUMBER OF EQUAL SPACES FOR TOP LONGITUDINAL REBAR	13
UU	DISTANCE OF TOP AND BOTTOM LONGITUDINAL REBAR	11'-6"

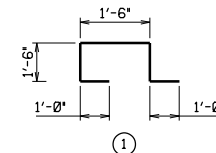
BILL OF REINFORCING STEEL			
MARK	TYPE	NUMBER	LENGTH
SS401E	STR	13	4'-6"
SS402E	1	13	6'-6"
SS601E	STR	16	11'-6"



SECTION A-A



BAR TYPE



NOT TO SCALE	
ADDITIONAL DETAILS NEEDED	
SERIES	SHEET NUMBER
1500	
1700	1700SS4

NO.	REVISION	DATE	BY

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DESIGNED	DATE	CHECKED	DATE
DRAWN	DATE	REVIEWED	DATE

STANDARD BRIDGE PLANS
SLEEPER SLAB LAYOUT
NO SKEW (1 OF 2)
 SHEET NUMBER ----1700SS1----