

TOWN OF EXETER, NEW HAMPSHIRE

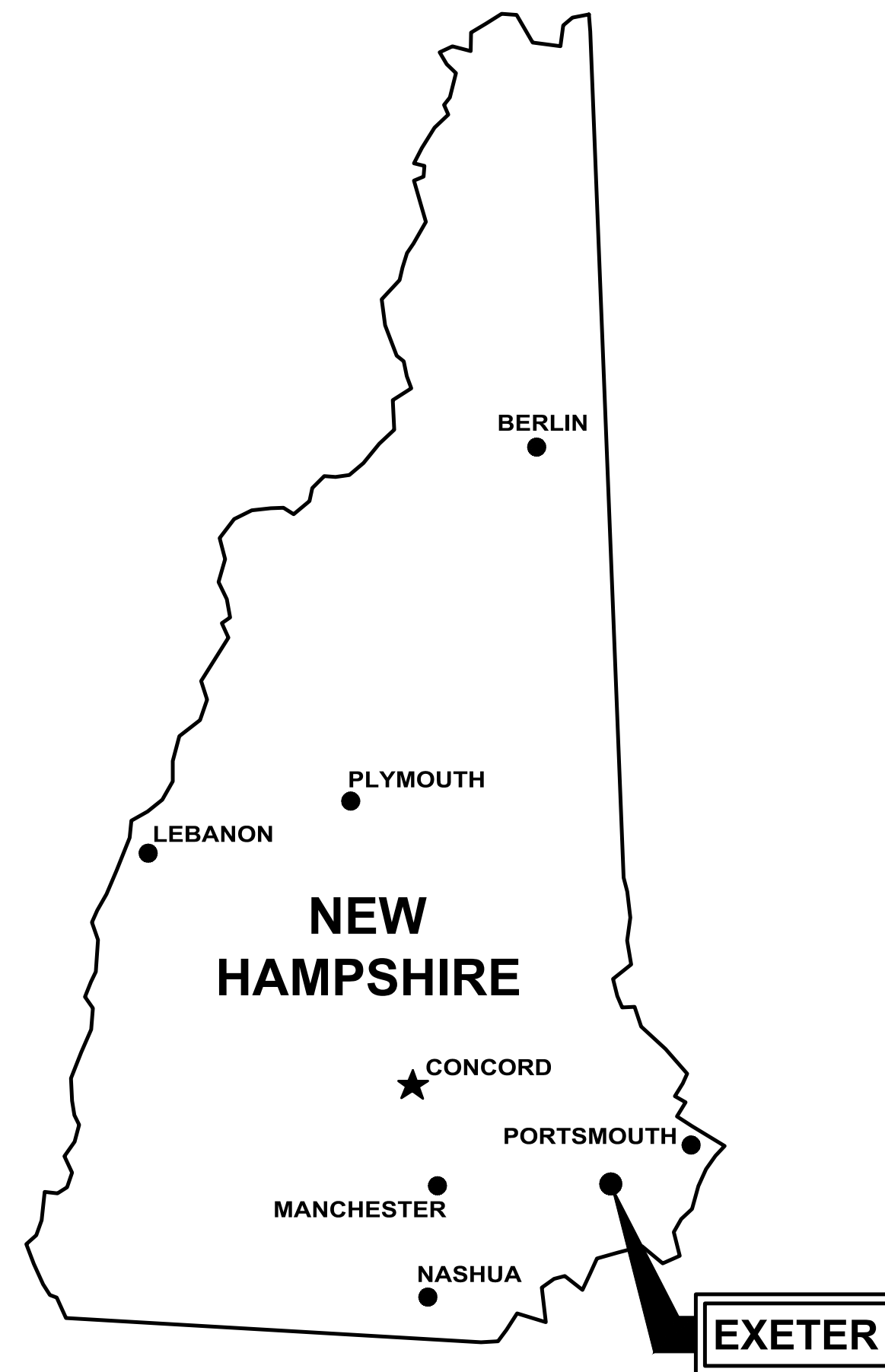
CONTRACT DRAWINGS FOR

LINDEN STREET OVER EXETER RIVER

(081/046)

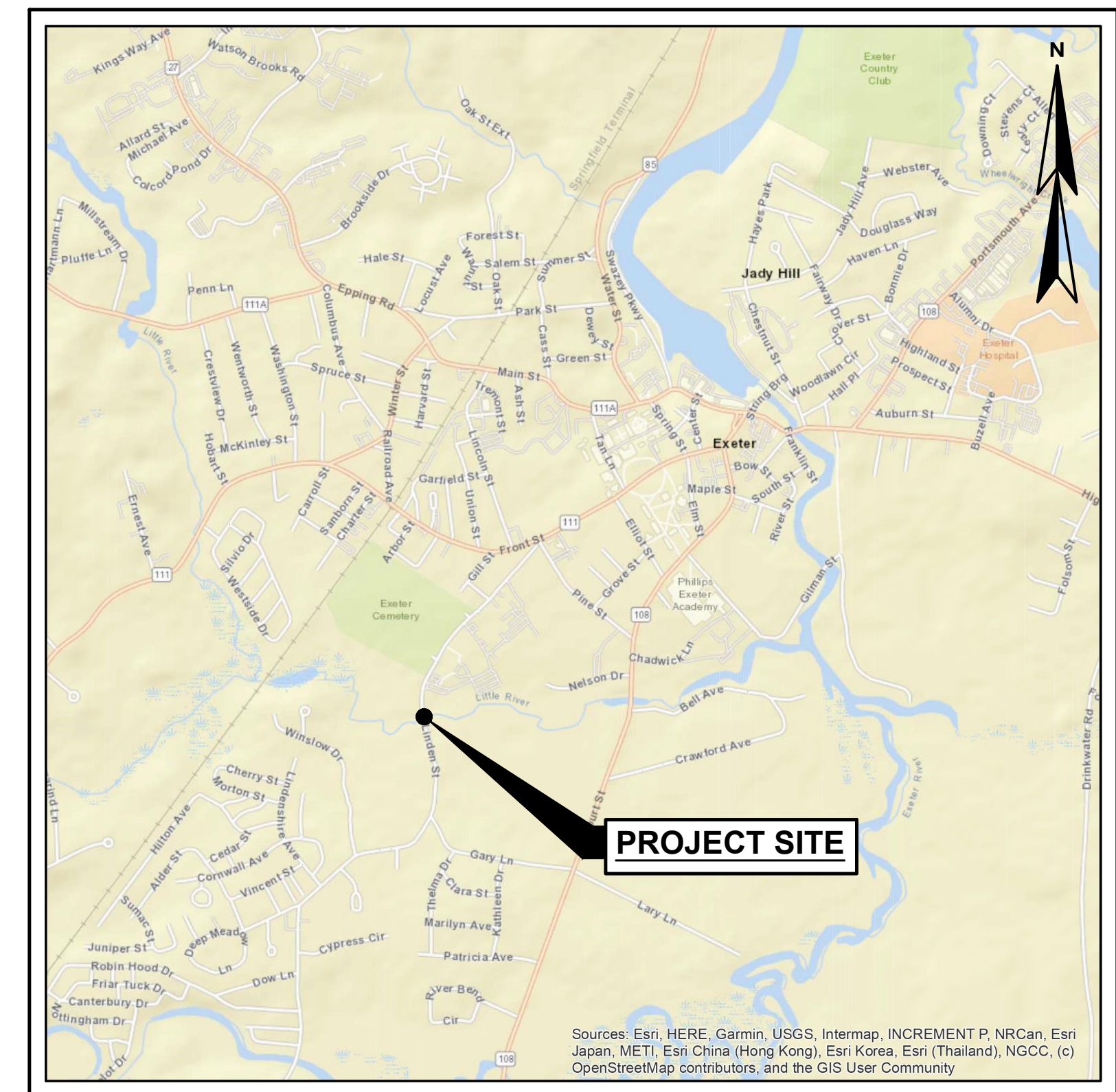
BRIDGE REPAIR

DECEMBER 2023

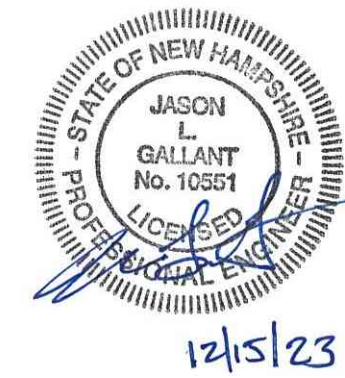


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LOCATION PLAN
SCALE: NTS



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GENERAL NOTES

- 1. THE OWNER WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS LISTED IN THE SUPPLEMENTARY OR SPECIAL CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH PERMIT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW FROM THE OWNER. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL RIGHTS OF WAY AND EASEMENTS ARE AVAILABLE FOR REVIEW FROM THE OWNER.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). REFER TO SPECIFICATION SECTION 01320 FOR ADDITIONAL REQUIREMENTS.
4. CONTRACTOR SHALL COMPLY WITH THE COORDINATION REQUIREMENTS AND RELATED COSTS, IF ANY, AS SPECIFIED IN SPECIFICATION SECTION 01050.
5. CONTRACTOR SHALL NOTE THAT, IN GENERAL, ALL EXISTING CONDITION INFORMATION ON THE DRAWINGS ARE SHOWN WITH A LIGHTER LINE WEIGHT AND WITH A SLANTED TYPE TEXT.
6. ALL EXISTING STORM DRAIN LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE. ANY EXISTING STORM DRAIN LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. WHERE UTILITY POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE THIS EFFORT WITH THE APPROPRIATE UTILITY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR THIS EFFORT OR TEMPORARY SUPPORT OF UTILITIES.
8. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTling ALL EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED BY THEIR OPERATIONS AT NO EXPENSE TO THE OWNER. THIS WORK IS TO BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF NEW HAMPSHIRE.
10. THE CONTRACTOR SHALL REMOVE AND REPLACE OR REPAIR EXISTING ITEMS TO REMAIN THAT ARE DAMAGED BY THEIR CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE OWNER, AND AT NO ADDITIONAL COST TO THE OWNER.
11. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED BY THE CONTRACTOR IMMEDIATELY TO THE NHFG NONGAME ENDANGERED WILDLIFE PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER (NHB23-3038), THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.

EXISTING SITE CONDITIONS

- 1. EXISTING CONDITION INFORMATION TAKEN FROM THE "EXISTING CONDITIONS SURVEY, LINDEN STREET BRIDGE OVER THE EXETER RIVER" PREPARED BY GM2 ASSOCIATES, INC. DATED AUGUST 23, 2023.
2. HORIZONTAL DATUM, BASED ON THE NH STATE PLANE COORDINATE SYSTEM, NAD83(2011).
3. ELEVATIONS SHOWN HEREIN, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. NO BOUNDARY SURVEY OR RESEARCH WAS COMPLETED AS PART OF THE EXISTING CONDITIONS SURVEY. THE PUBLIC AND PRIVATE BOUNDARIES ARE SHOWN AS APPROXIMATE SOLELY BASED ON PUBLICLY AVAILABLE GIS AND TAX MAP INFORMATION.
5. UNDERGROUND UTILITIES AND FACILITIES SHOWN ARE APPROXIMATE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL NOTIFY DIGSAFE (CALL 811) PRIOR TO ANY EXCAVATION ON SITE IN ACCORDANCE WITH NH RSA 374.
6. ALL DIMENSIONS AND DETAILS SHOWN FOR THE EXISTING STRUCTURE ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENTS AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN ACCEPTED BY THE ENGINEER.
7. THERE ARE NO KNOWN HAZARDOUS ENVIRONMENTAL CONDITIONS WITHIN THE AREA OF WORK. REFER TO SPECIFICATION SECTION 00800-SC-5.06. IF THE PRESENCE OF HAZARDOUS ENVIRONMENTAL CONDITIONS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER IMMEDIATELY. ALL ACTIVITIES, HANDLING AND DISPOSAL OF HAZARDOUS ENVIRONMENTAL CONDITIONS AND MATERIALS SHALL BE IN ACCORDANCE WITH OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.

EROSION CONTROL

- 1. THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF EROSION OF THE EXISTING STORMWATER SYSTEM FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND SUBMITTING A TEMPORARY EROSION CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY THE OWNER AND ENGINEER. THE EROSION CONTROL PLAN SHALL BE FULLY IMPLEMENTED AND ACCEPTED BY THE OWNER AND ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
2. THE EROSION CONTROL PLAN SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3", LATEST EDITION AND PER THE APPLICABLE WETLANDS PERMIT. ALL EROSION CONTROL EFFORT SHALL BE SUBSIDIARY TO ITEM 699.

DEMOLITION

- 1. THE CONTRACTOR SHALL SUBMIT, FOR DOCUMENTATION IN ACCORDANCE WITH SECTION 105.02 OF THE NHDOT STANDARD SPECIFICATIONS, A DETAILED OUTLINE OR PLAN OF THE PROPOSED METHOD FOR PARTIAL REMOVAL OF THE EXISTING BRIDGE PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK. PARTIAL BRIDGE REMOVAL SUBMITTALS SHALL BE DESIGNED AND SEALED BY A PROFESSIONS ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
2. ITEM 502, REMOVAL OF EXISTING BRIDGE STRUCTURE, SHALL INCLUDE THE REMOVAL OF THE EXISTING TIMBER BACKWALL, TOP OF THE WINGWALLS TO THE LIMITS SHOWN ON THE PLANS, EXISTING TIMBER BRIDGE RAIL, AND EXISTING BRIDGE PAVEMENT AND MEMBRANE. PORTIONS OF THE BRIDGE TO REMAIN SHALL BE PROTECTED. ANY DAMAGE TO THE EXISTING BRIDGE TO REMAIN CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL DESIGN CRITERIA

- 1. DESIGN LOADING: AASHTO HL-93.
2. DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).
3. SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION AS AMENDED. NHDOT 2016 STANDARD SPECIFICATIONS AS AMENDED.
4. FOUNDATION DATA: EXISTING: HP8x36 PILES WITH REINFORCED CONCRETE PILE CAP, TIMBER FACED MSE BREASTWALL, BACKWALL, AND WINGWALLS PROPOSED: REINFORCED CONCRETE BACKWALL AND WINGWALLS. GROUTED SOIL ANCHORS AND CONCRETE-FACED TIMBER MSE WALLS
5. REINFORCEMENT: AASHTO M 31 (ASTM A 615) GRADE 60, EPOXY COATED PER ASTM D3963. LAG SCREWS: HOT-DIP GALVANIZED, AISI 1006 - 1022, 60,000 PSI MINIMUM TENSILE STRENGTH FIBER REINFORCEMENT PER NHDOT CURRENT "QUALIFIED PRODUCTS LIST", DOSAGE RATE = 7 LB/CY
SPliced BARS SHALL HAVE THE FOLLOWING MINIMUM SPLICE LENGTHS REGARDLESS OF LOCATION (UNLESS OTHERWISE INDICATED ON THE DRAWINGS) #4 = 1'-8" #5 = 2'-0" #6 = 2'-5" #7 = 3'-6" #8 = 4'-0"
6. STRUCTURAL STEEL: AASHTO M270, GRADE 50 (ASTM A709, GRADE 50)
7. CONCRETE: WINGWALL, BACKWALL, AND APPROACH SLAB = 4,000 PSI, NHDOT CLASS AA GROUT: PER NHDOT CURRENT "QUALIFIED PRODUCTS LIST"
8. SEISMIC DESIGN CRITERIA: SEISMIC SITE CLASS = C (AASHTO 3.10.3.1) SEISMIC ZONE = 1 (AASHTO 3.10.6) 0.2 SECOND SPECTRAL RESPONSE ACCELERATION, Ss = 0.19g (AASHTO FIGURE 3.10.2.1-2) 0.1 SECTION SPECTRAL RESPONSE ACCELERATION, S1 = 0.45g (AASHTO 3.10.2.1-3) LIQUEFACTION POTENTIAL = NOT SUSCEPTIBLE
9. MAINTENANCE OF TRAFFIC: ROAD CLOSURE AND DETOUR.

SOIL ANCHOR DESIGN CRITERIA

- 1. UNIT WEIGHT OF BACKFILL: 125 PCF
2. INTERNAL SOIL FRICTION ANGLE: 32 DEGREES
3. EARTH PRESSURE COEFFICIENT: 0.31
4. LIVE LOAD SURCHARGE: 290 PSF
5. CONSTRUCTION SURCHARGE: 250 PSF
6. HEIGHT OF WALL: AS SHOWN ON PLANS (VIF)
7. SOIL ANCHOR SPACING: CONTRACTOR DESIGNED
8. MINIMUM HOLE DIAMETER: 3 INCH
9. ANCHOR SIZE: No. 6 THREADED BAR MIN., EPOXY COATED OR HOT-DIP GALVANIZED
10. STEEL YIELD STRENGTH: 50 KSI, HOT-DIP GALVANIZED
11. GROUT COMPRESSIVE STRENGTH: 5 KSI
12. MINIMUM BONDED LENGTH: 10 FT
13. ACTIVE ZONE FAILURE PLANE: AS SHOWN ON PLANS
14. PROPOSED REBUILT REINFORCED CONCRETE WINGWALL AND BACKWALL DESIGNED TO ACT INDEPENDENTLY FROM TIMBER FACED MSE WALL TO REMAIN. SOIL ANCHOR DESIGNER TO ACCOUNT FOR ADDITIONAL SURCHARGE FROM THE HEIGHT OF SOIL FROM THE TOP OF THE TIMBER FACED MSE WALL TO REMAIN TO THE TOP OF THE ROADWAY.

ESTIMATED QUANTITIES - BASE BID

Table with 4 columns: ITEM NO., ITEM DESCRIPTION, QTY, UNIT. Lists various construction materials and quantities such as guardrail, excavation, gravel, concrete, steel, etc.

ESTIMATED QUANTITIES - BID ALTERNATE 1

Table with 4 columns: ITEM NO., ITEM DESCRIPTION, QTY, UNIT. Lists quantities for concrete facing and mobilization.

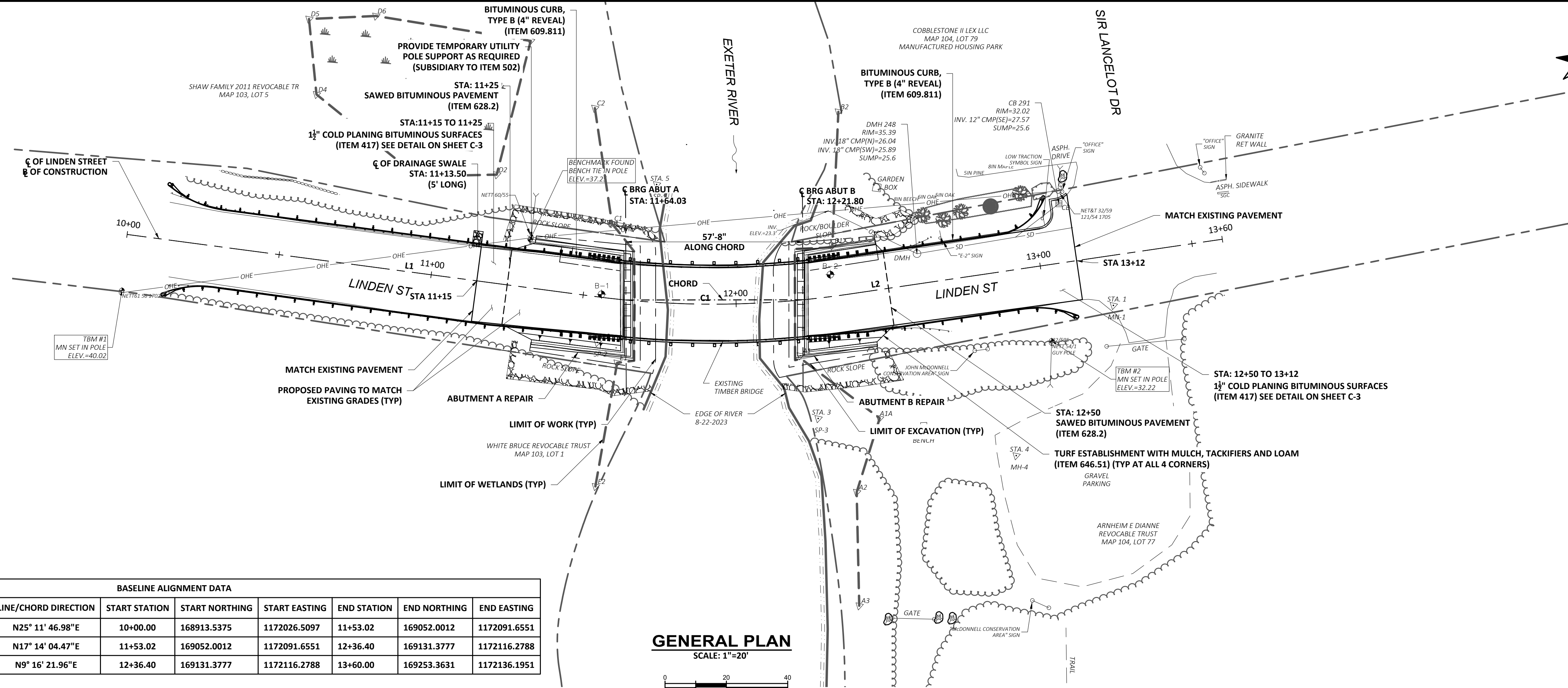
CIVIL ABBREVIATIONS

- & DIA AND
Ø, DIA DIAMETER
NO NUMBER
AC ASBESTOS CEMENT
APP'D APPROVED
BRG BEARING
BR BRICK
BLDG BUILDING
CB CATCH BASIN
CEN CENTER
CFS CUBIC FEET PER SECOND
CI CAST IRON
CIPP CURED-IN-PLACE-PIPE
CL CENTERLINE
CMP CORRUGATED METAL PIPE
CO CLEANOUT
CONC CONCRETE
COR CORNER
CY CUBIC YARD
DEMO DEMOLITION
DMH DRAIN MANHOLE
DI DUCTILE IRON
DR DRAIN
DWG DRAWING
EL ELEVATION
EMH ELECTRIC MANHOLE
FM FORCE MAIN
FT FEET
G GAS
HDPE HIGH DENSITY POLYETHYLENE
HYD HYDRANT
IN INCH
INF INFLUENT
INV INVERT
LB POUNDS
LF LINEAR FOOT
MAX MAXIMUM
MH MANHOLE
MIN MINIMUM
MW MONITORING WELL
N NORTH
NGVD NATIONAL GEODETIC VERTICAL DATUM
NHDOT NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
N/A NOT AVAILABLE/APPLICABLE
NTS NOT TO SCALE
OD OUTSIDE DIAMETER
OUT OUTFALL
PC PERFORATED CLAY
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PS PRIMARY SLUDGE
PT POINT OF TANGENCY
PVC POLYVINYL CHLORIDE
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN
REQ'D REQUIRED
S SLOPE, SEWER
SD STORM DRAIN
SF SQUARE FEET
SMH SANITARY SEWER MANHOLE
SQ SQUARE
STA STATION
T, XFMR TRANSFORMER
T & B TOP & BOTTOM
TBM TEMPORARY BENCH MARK
THK THICKNESS
TOS TOP OF STRUCTURE
TYP TYPICAL
UD UNDERDRAIN
UG UNDERGROUND
UGE UNDERGROUND ELECTRIC
VC VITRIFIED CLAY
VIF VERIFY IN FIELD
WF VERTICAL FOOT
W/W WITH
W POTABLE WATER

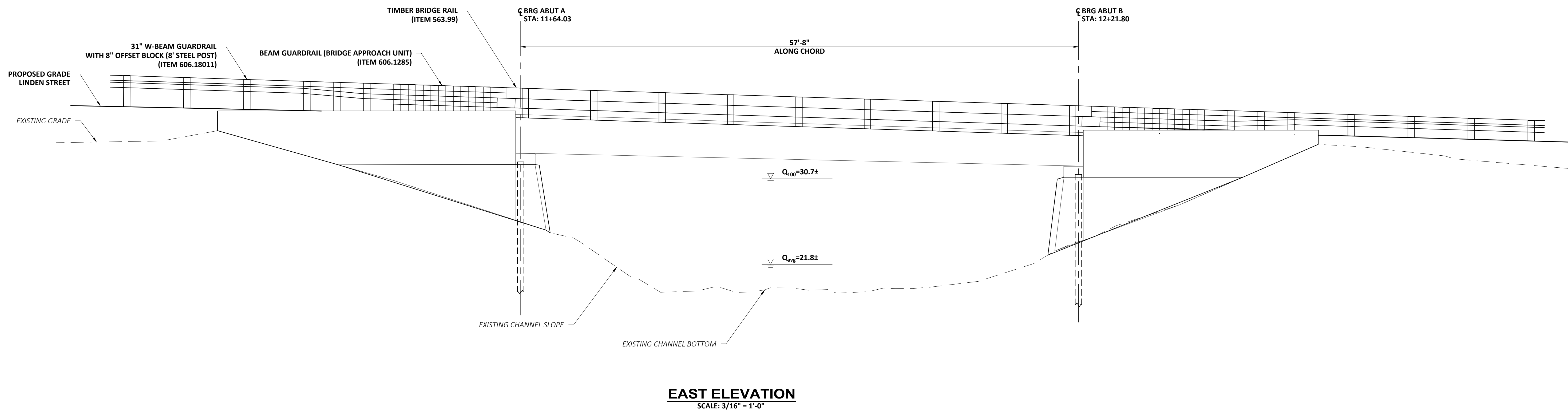
LEGEND

Legend showing symbols for EXISTING and PROPOSED features. Includes symbols for property/row line, setback line, easement line, centerline, edge of pavement, curb, edge of gravel, edge of concrete, contour, building, stone wall, treeline, chain link fence, stockade fence, barb wire fence, retaining wall, guardrail, sewer, sewer force main, gas, water, storm drain, underdrain, culvert, underground electric, overhead electric, underground telephone, underground cable TV, iron pipe/rebar, drillhole, monument, survey control point, spot elevation, sewer manhole, drainage manhole, catch basin, electric manhole, telephone manhole, shutoff valve, water service shutoff, yard hydrant, hydrant, gas service shutoff, gas gate valve, utility pole w/ guy, utility pole w/ light, light pole, bollard, flagpole, coniferous tree, deciduous tree, shrub, wetland flag, edge of water, stream, edge of wetlands, floodplain, wetlands, drainage flow, drainage swale, pavement markings, sign, mailbox, temporary bench mark, test pit, test boring, test probe, monitoring well, limit of work, silt fence, riprap, railroad, matchline, rock outcrop, and demolition.

Project information and title block. Includes project name: TOWN OF EXETER, NEW HAMPSHIRE LINDEN STREET OVER EXETER RIVER (081/046) BRIDGE REPAIR. Designer: WRIGHT-PIERCE. Date: 12/15/23. Includes a professional seal for Jason J. Gallant, No. 10551. Also includes a table for REVISIONS and a table for APP'D DATE.



BASELINE ALIGNMENT DATA										
NUMBER	LENGTH	RADIUS	DELTA	LINE/CHORD DIRECTION	START STATION	START NORTHING	START EASTING	END STATION	END NORTHING	END EASTING
L1	153.02			N25° 11' 46.98"E	10+00.00	168913.5375	1172026.5097	11+53.02	169052.0012	1172091.6551
C1	83.38	300.00	15°55'25"	N17° 14' 04.47"E	11+53.02	169052.0012	1172091.6551	12+36.40	169131.3777	1172116.2788
L2	123.60			N9° 16' 21.96"E	12+36.40	169131.3777	1172116.2788	13+60.00	169253.3631	1172136.1951



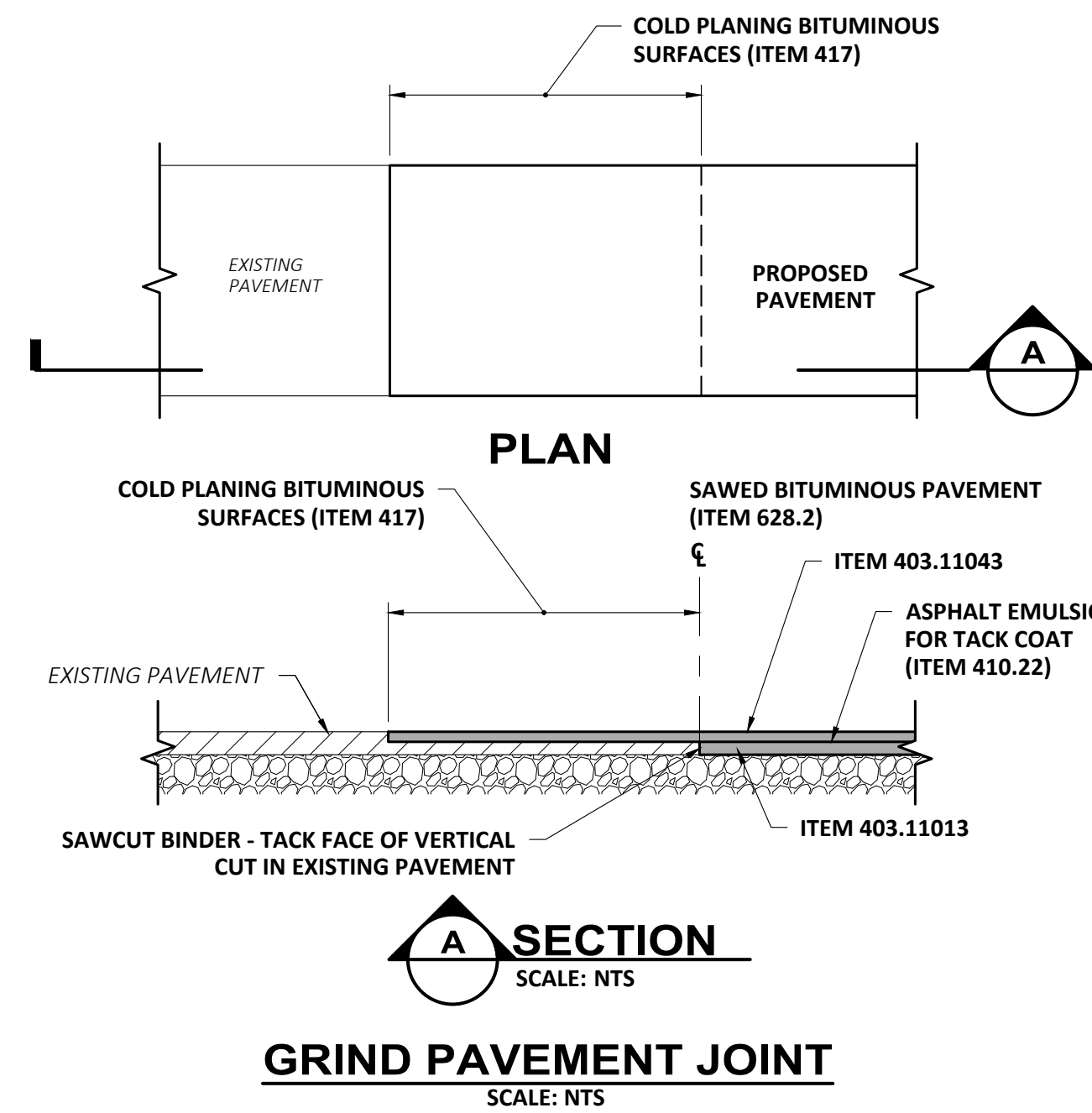
NO	REVISIONS	DATE

PROJECT NO: 20837D	DESIGNED: W.NUHN	CAD COORD: M.LAPIERRE	CHECKED: W.NUHN	DATE: DECEMBER 2023
			APPROVED: J.GALLANT	DATE: DECEMBER 2023
				SUBMISSION: CONTRACT DOCUMENTS

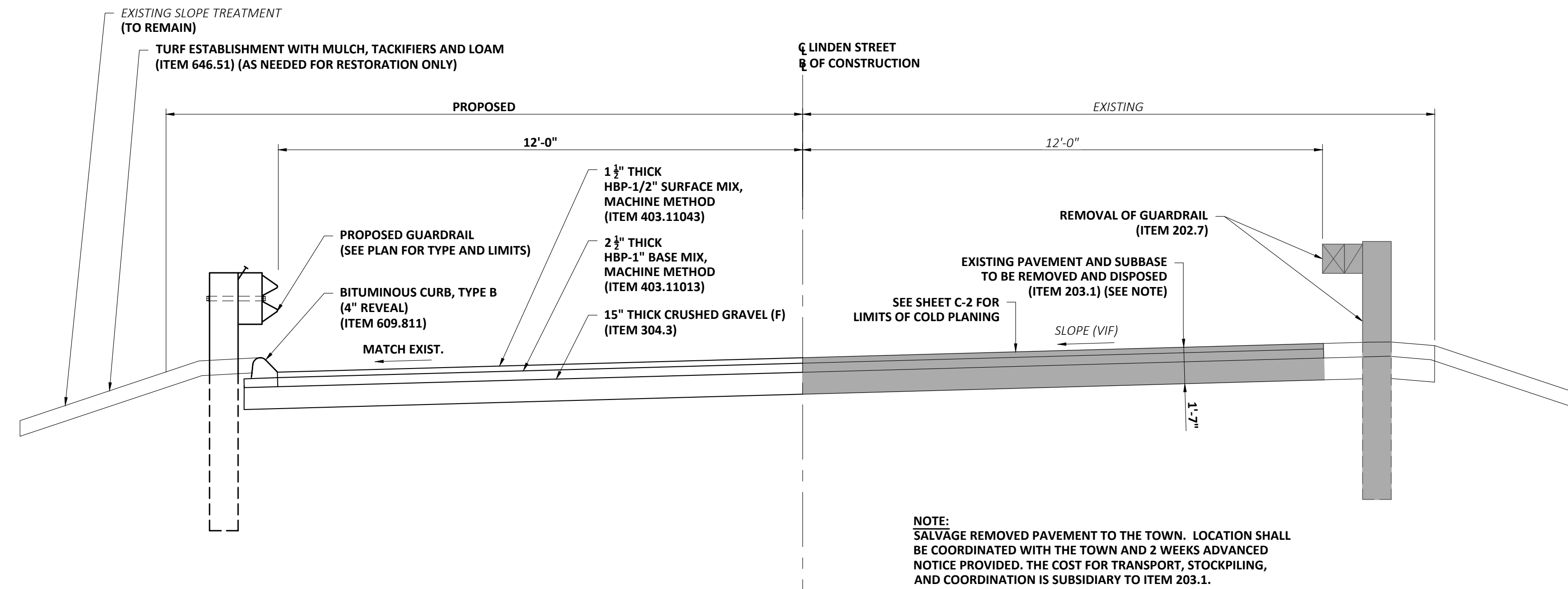


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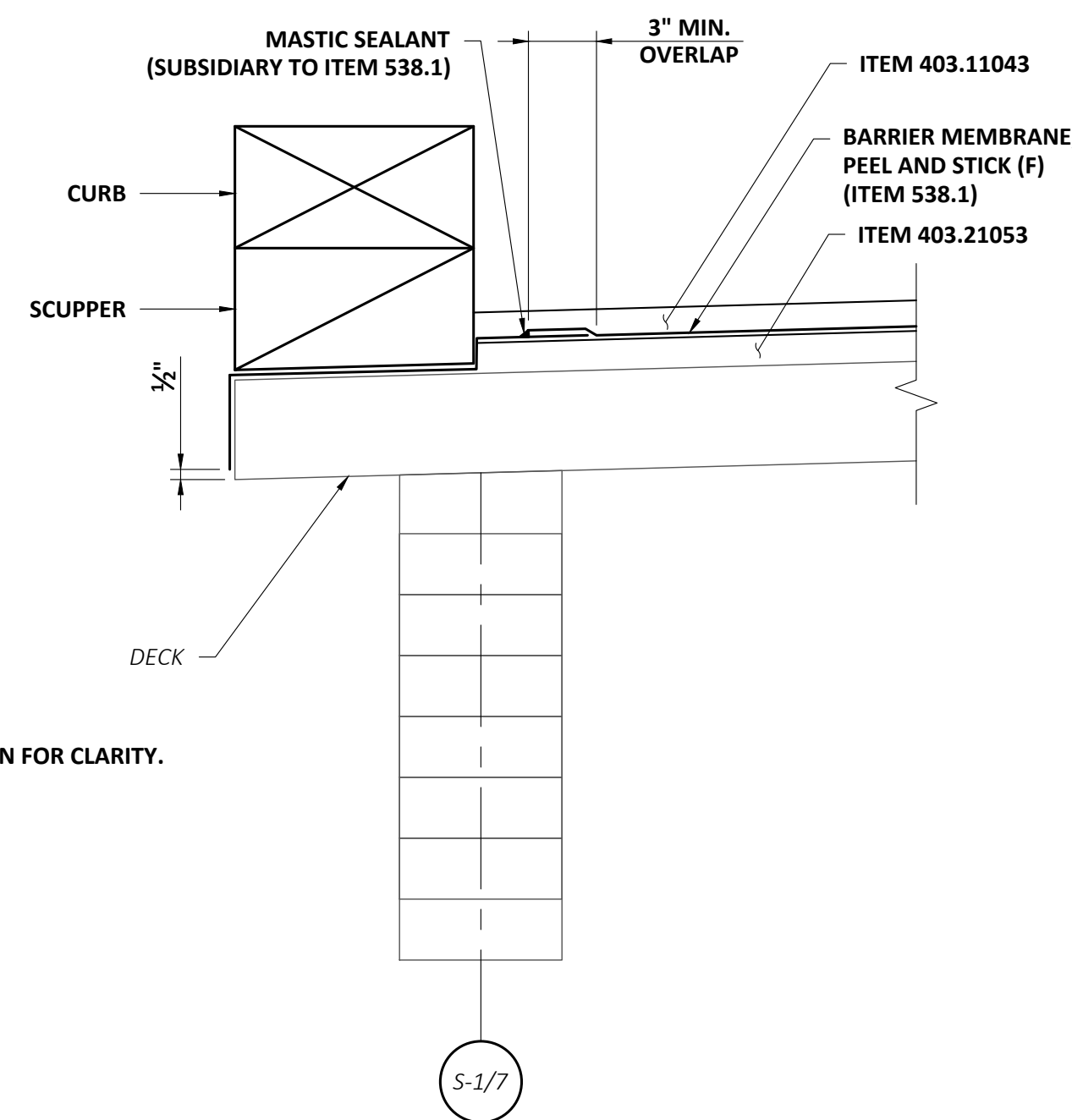
TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR
BRIDGE PLAN AND ELEVATION



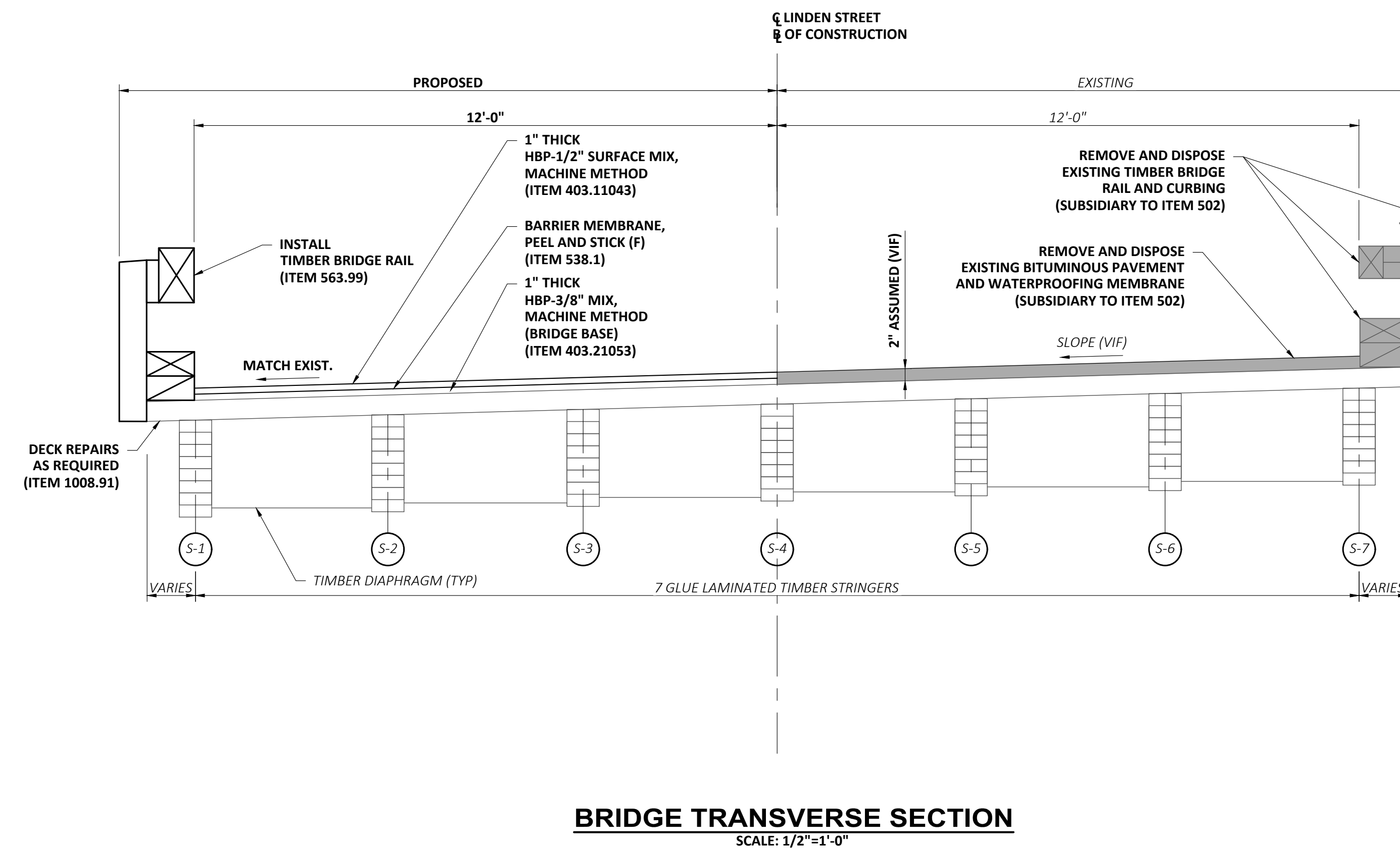
GRIND PAVEMENT JOINT
SCALE: NTS



TYPICAL ROADWAY SECTION
SCALE: 1/2"=1'-0"



MEMBRANE DETAIL
SCALE: NTS



BRIDGE TRANSVERSE SECTION
SCALE: 1/2"=1'-0"

NO	REVISIONS	APPD	DATE

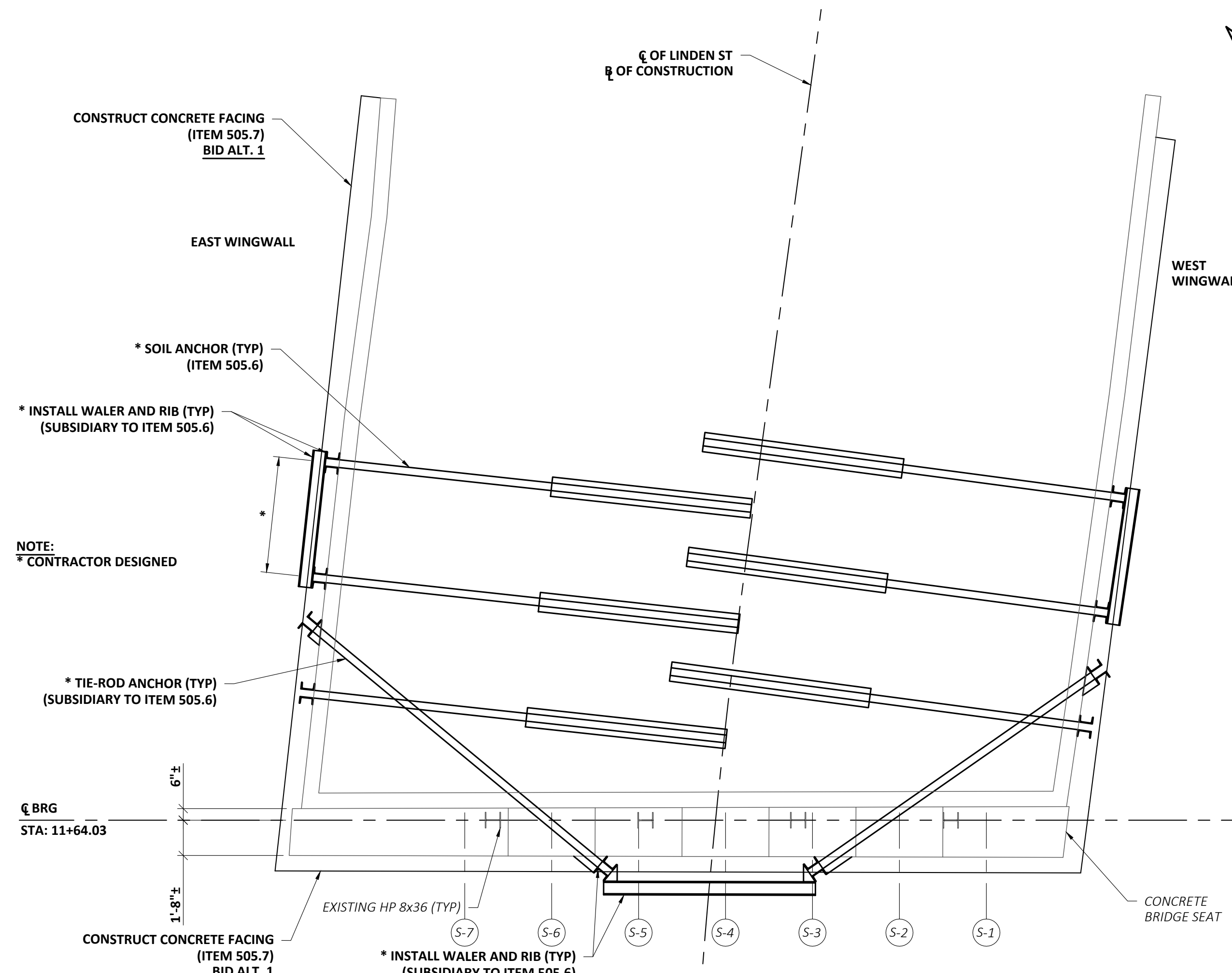
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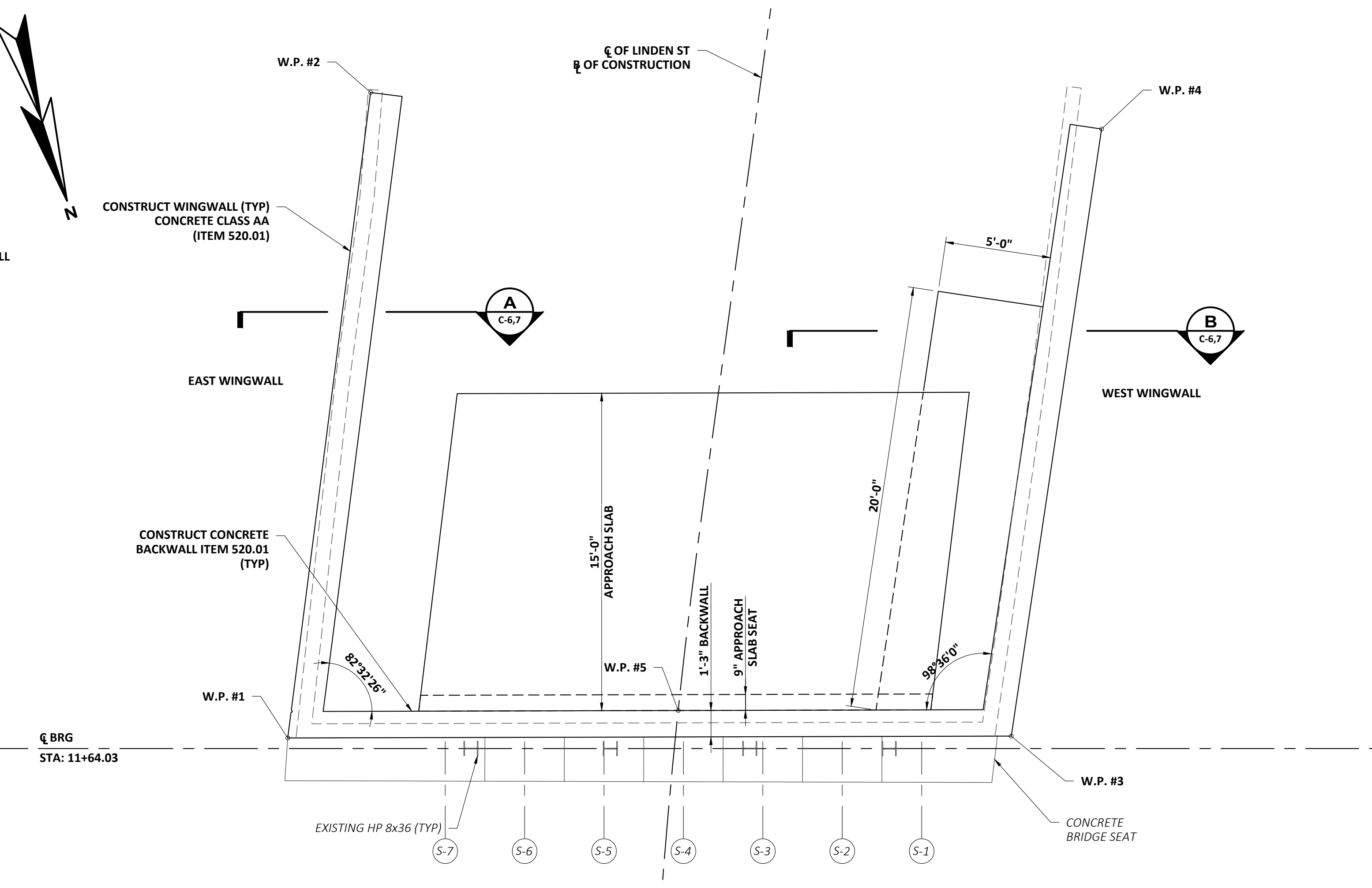
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TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR

TYPICAL SECTIONS

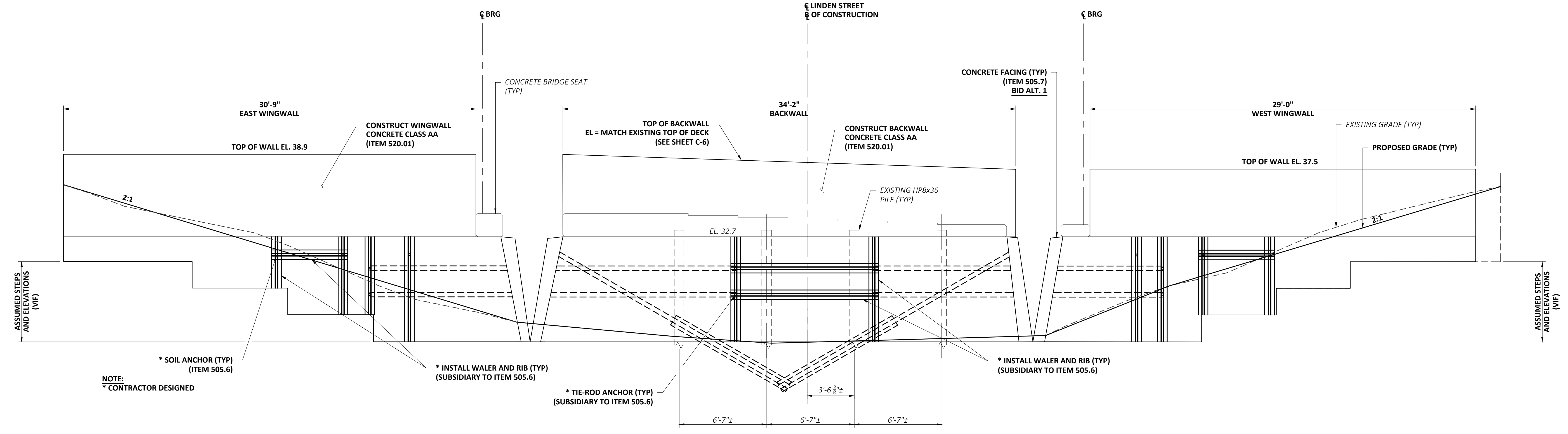


ABUTMENT A PLAN: SOIL ANCHORS
SCALE: 1/4"=1'-0"



ABUTMENT A PLAN: MASONRY
SCALE: 1/4"=1'-0"

CONSTRUCTION WORKING POINTS				
W.P. #	STATION	OFFSET	NORTHING	EASTING
1	11+65.26	18.22 R	169056.0974	1172113.4221
2	11+35.25	18.19 R	169028.1736	1172100.5449
3	11+61.76	15.77 L	169066.2566	1172080.7996
4	11+32.30	16.25 L	169040.1689	1172068.1335
5	11+62.22	0.00	169060.3868	1172095.4425



ABUTMENT A - DEVELOPED ELEVATION
SCALE: 1/4"=1'-0"

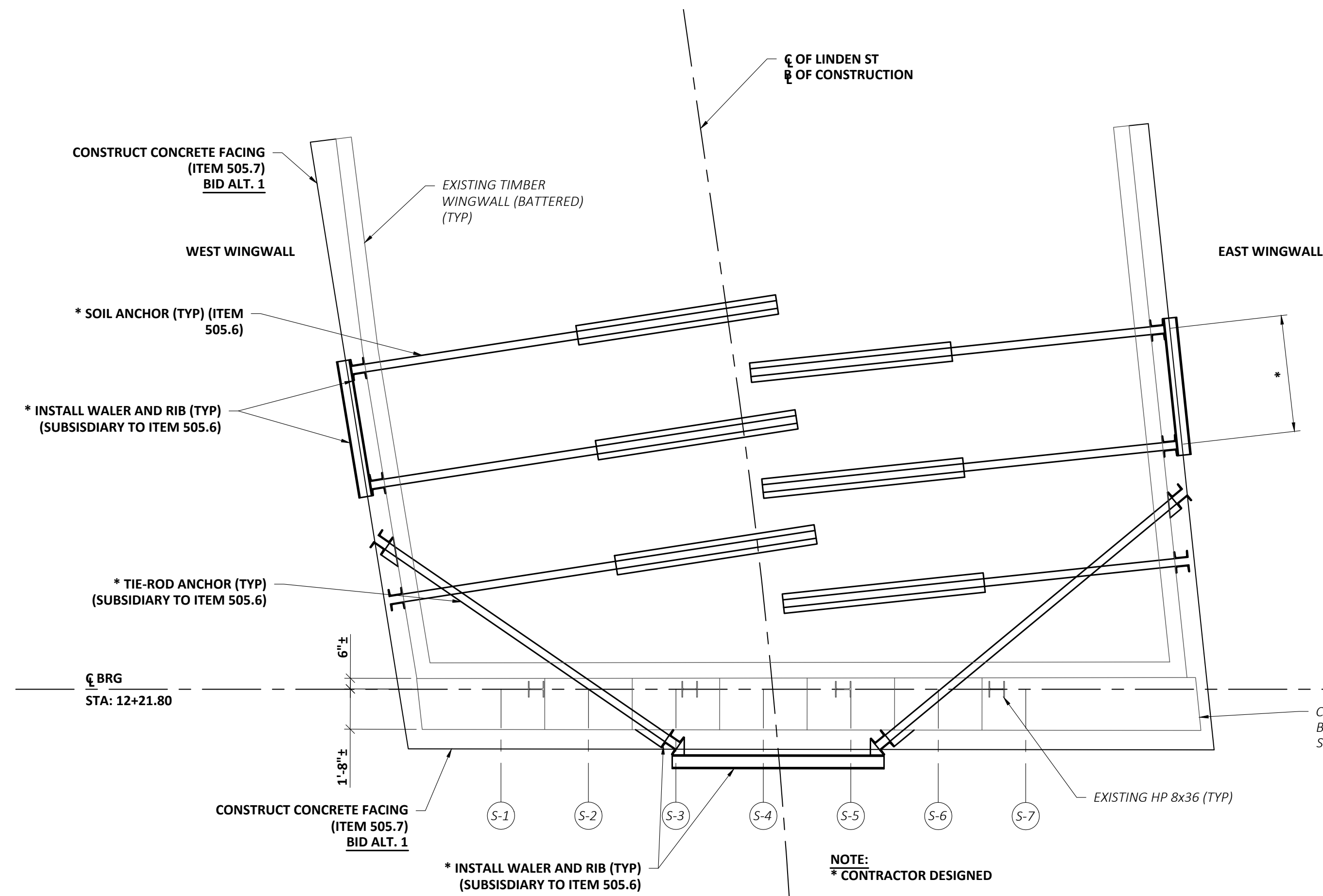
NO	REVISIONS	APPD	DATE

PROJECT NO: 20837D
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 CAD COORD: M.LAPIERRE
 CAD: M.LAPIERRE
 CHECKED: W.NUHN
 DATE: DECEMBER 2023
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 ABUTMENT A PLAN AND ELEVATION

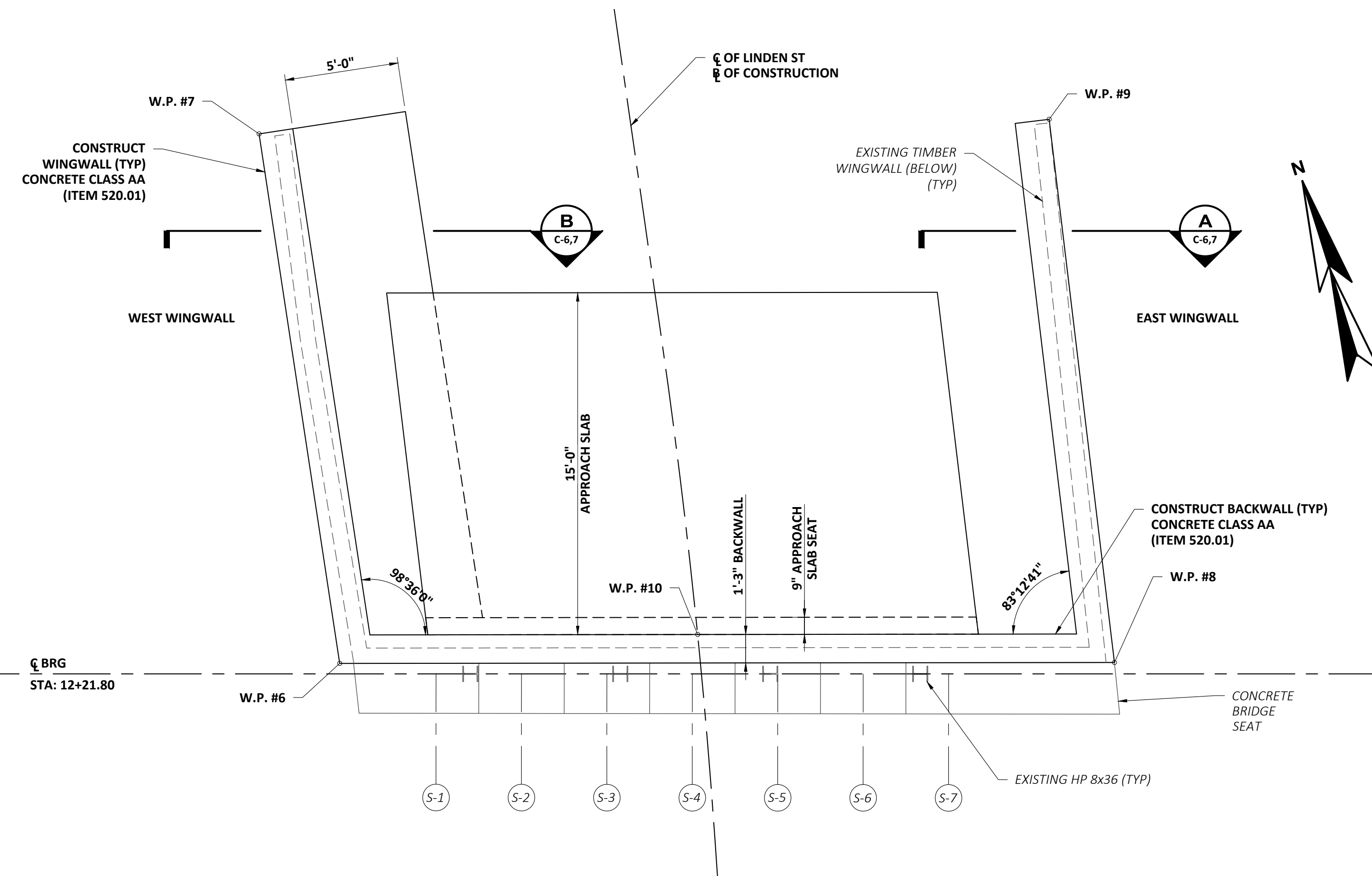
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ABUTMENT B PLAN: SOIL ANCHORS

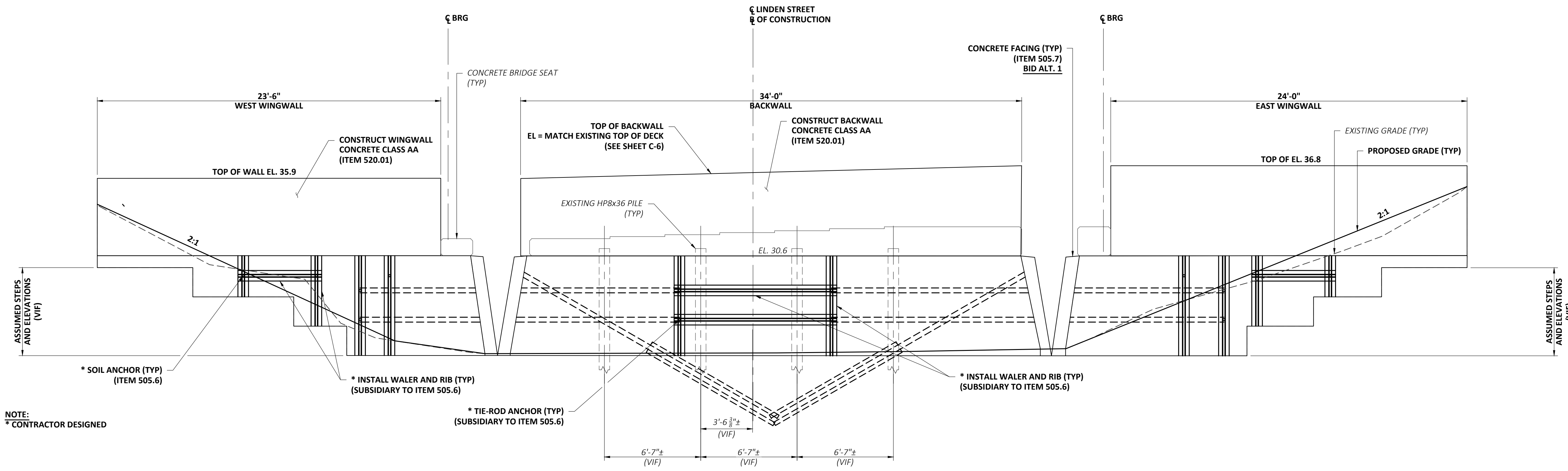
SCALE: 1/4"=1'-0"

CONSTRUCTION WORKING POINTS				
W.P. #	STATION	OFFSET	NORTHING	EASTING
6	12+23.85	15.76 L	169122.2255	1172098.5657
7	12+48.01	16.21 L	169145.4506	1172102.1500
8	12+20.66	18.10 R	169112.0708	1172131.0227
9	12+43.71	18.21 R	169135.6629	1172135.4272
10	12+23.53	0.00	169118.7271	1172113.9338



ABUTMENT B PLAN: MASONRY

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

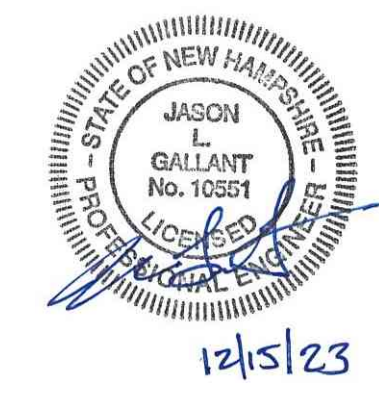


ABUTMENT B - DEVELOPED ELEVATION

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

NO	REVISIONS	DATE

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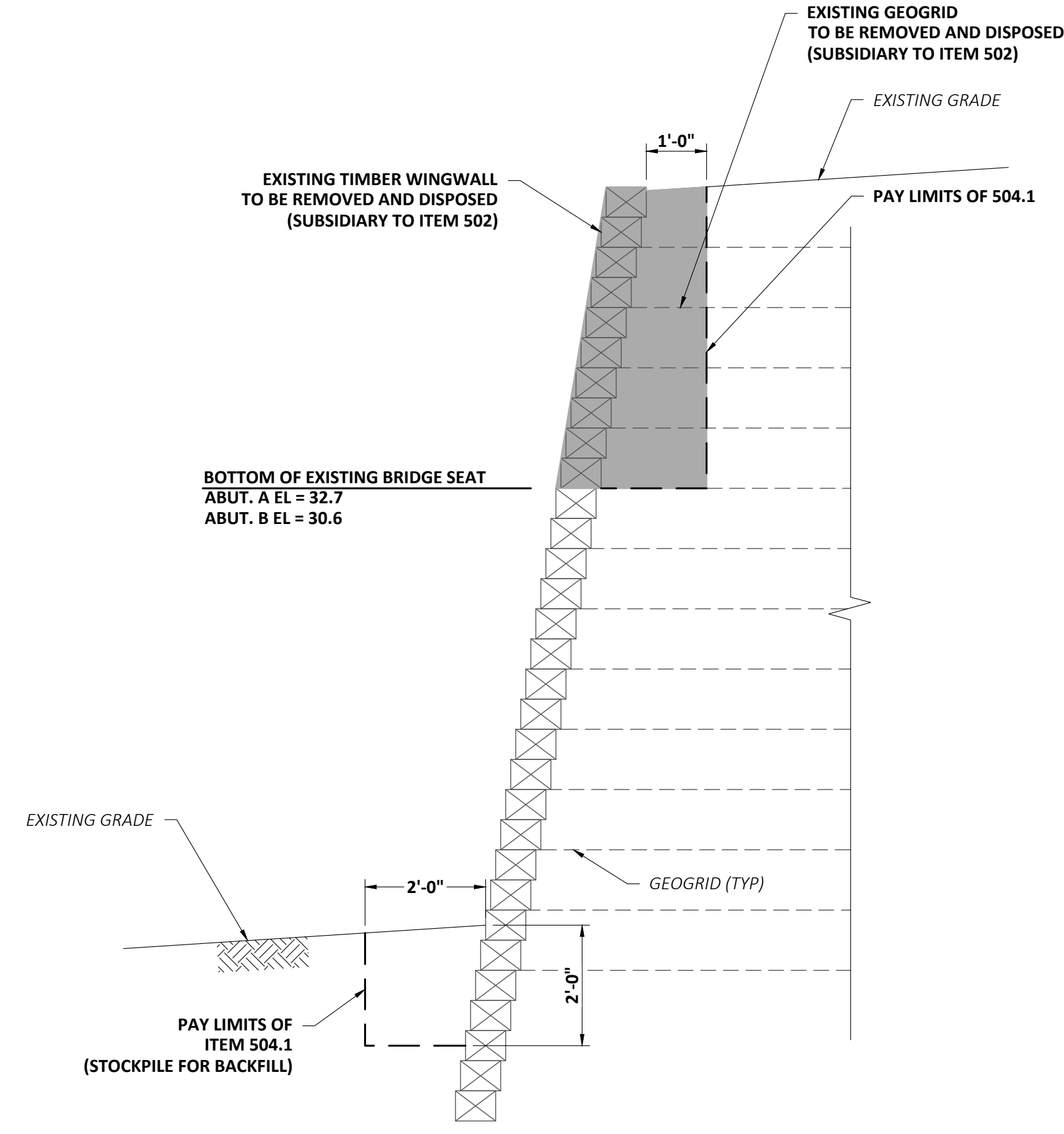
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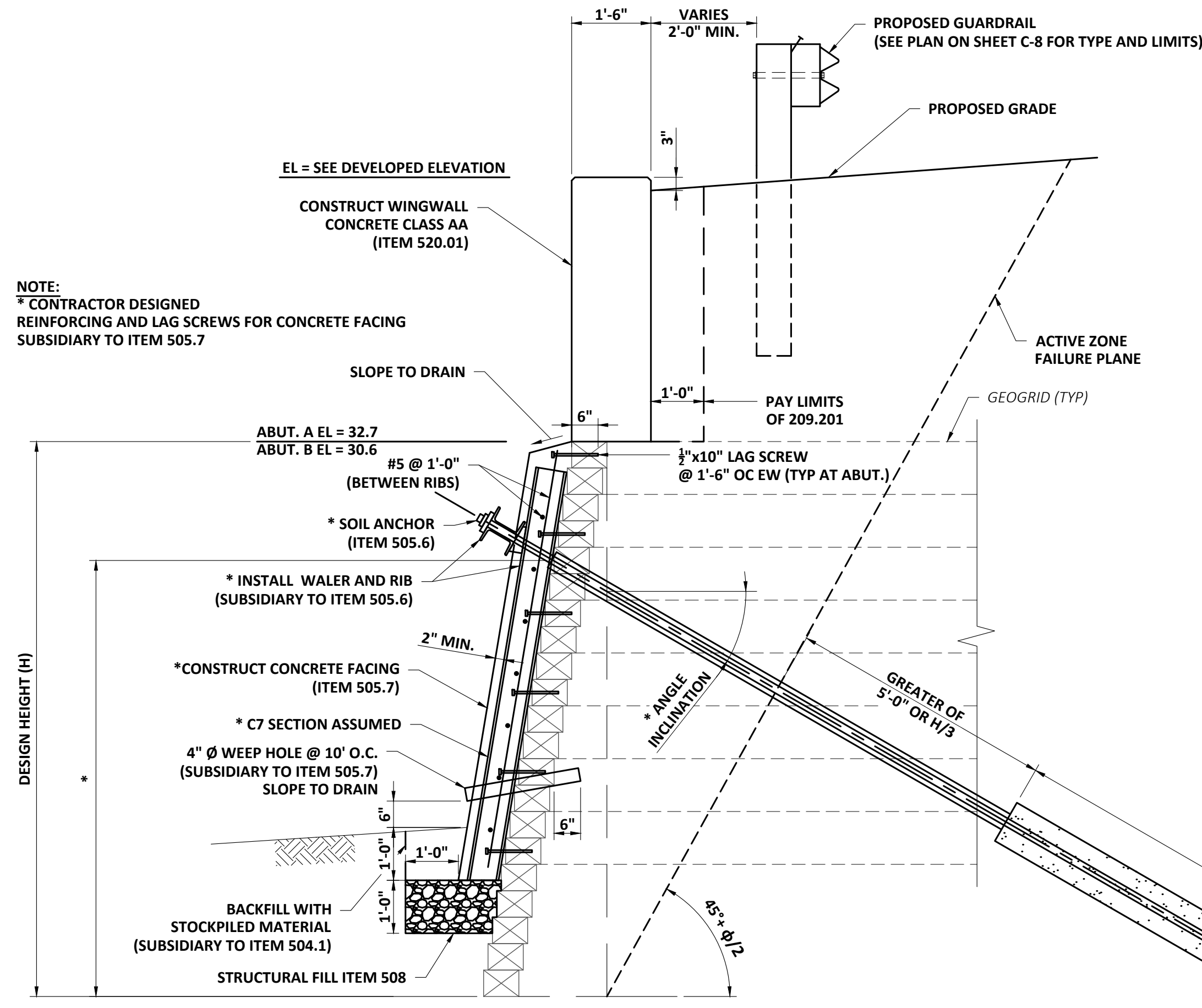
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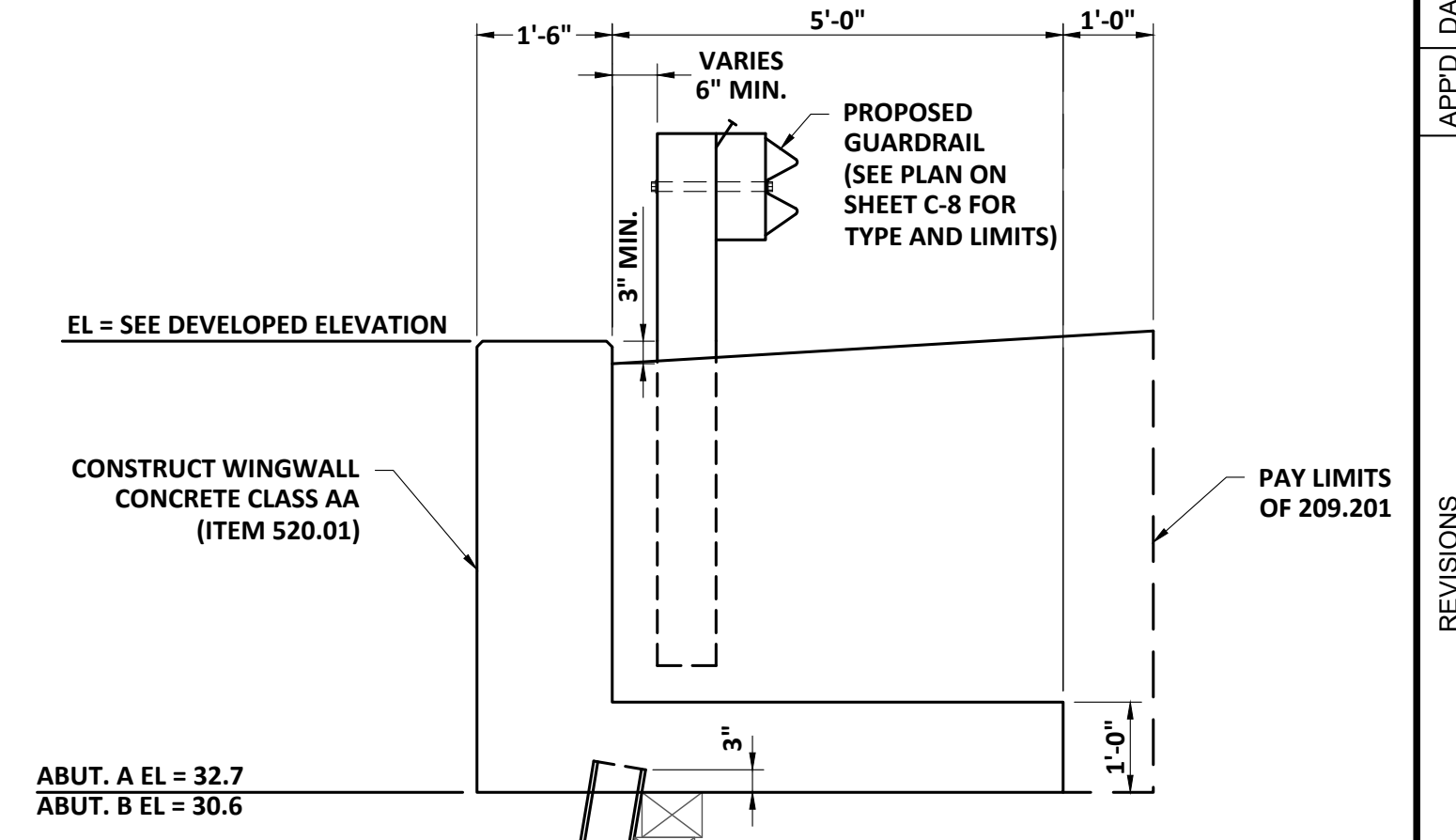
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TYPICAL WINGWALL DEMOLITION SECTION
SCALE: 1/2"=1'-0"



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

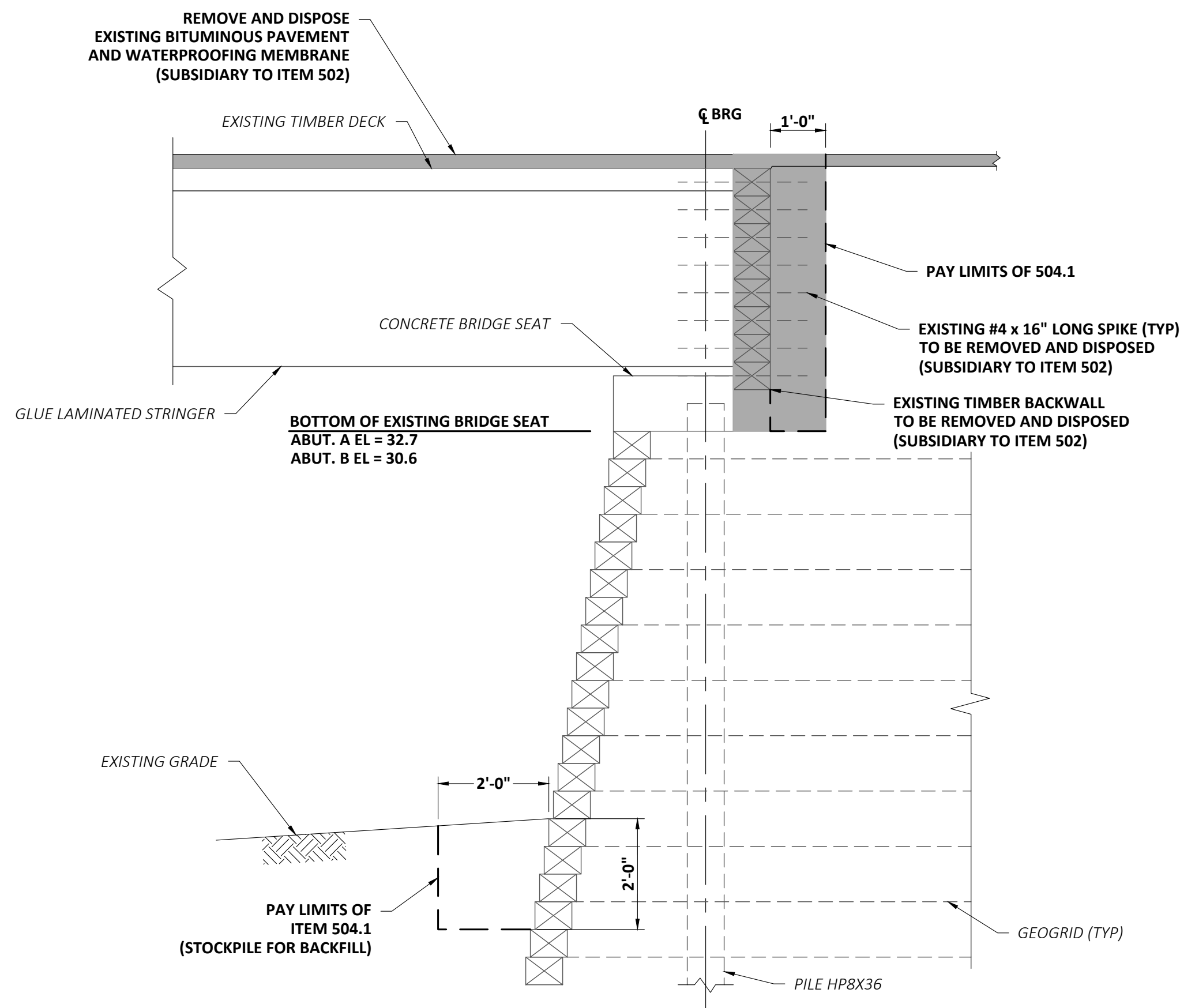
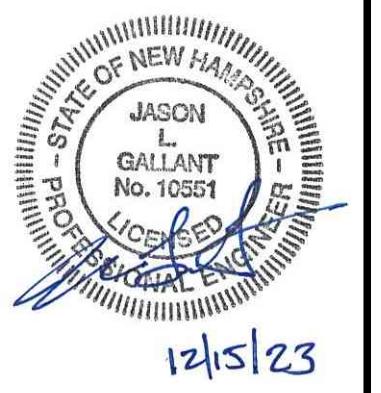


B SECTION
SCALE: 1/2"=1'-0"

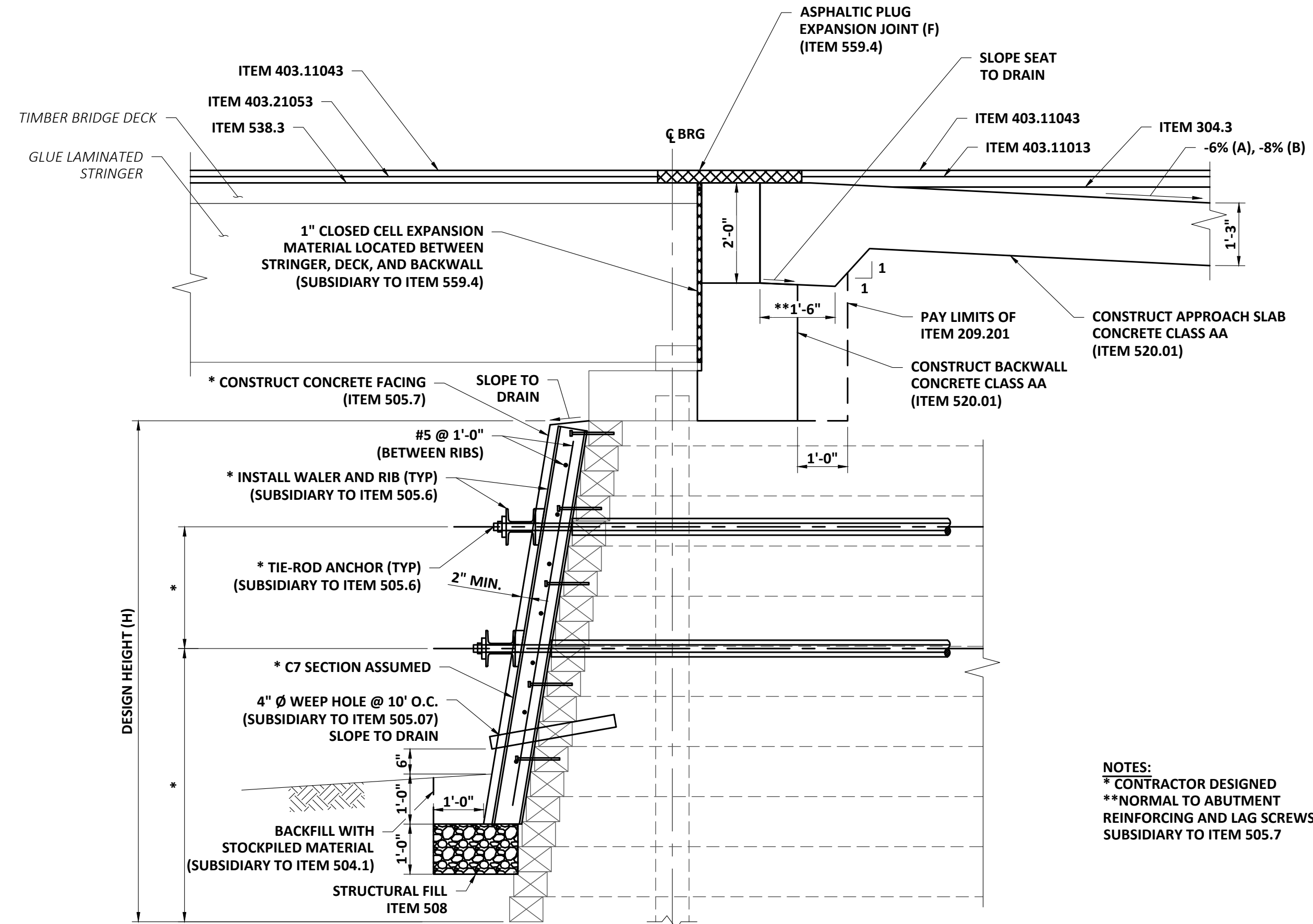
NOTE:
* CONTRACTOR DESIGNED REINFORCING AND LAG SCREWS FOR CONCRETE FACING SUBSIDIARY TO ITEM 505.7

NO.		REVISIONS		DATE
1				
2				
3				
4				
5				
6				

PROJECT NO: 20837D
 DESIGNED: WJH
 CAD COORD: MLAPERRIE
 CAD: MLAPERRIE
 CHECKED: WJH
 DATE: DECEMBER 2023
 APPROVED: J.GALLANT
 DATE: DECEMBER 2023
 SUBMISSION: CONTRACT DOCUMENTS



TYPICAL ABUTMENT DEMOLITION SECTION
SCALE: 1/2"=1'-0"



TYPICAL ABUTMENT REPAIR SECTION
SCALE: 1/2"=1'-0"

NOTES:
* CONTRACTOR DESIGNED REINFORCING AND LAG SCREWS FOR CONCRETE FACING SUBSIDIARY TO ITEM 505.7

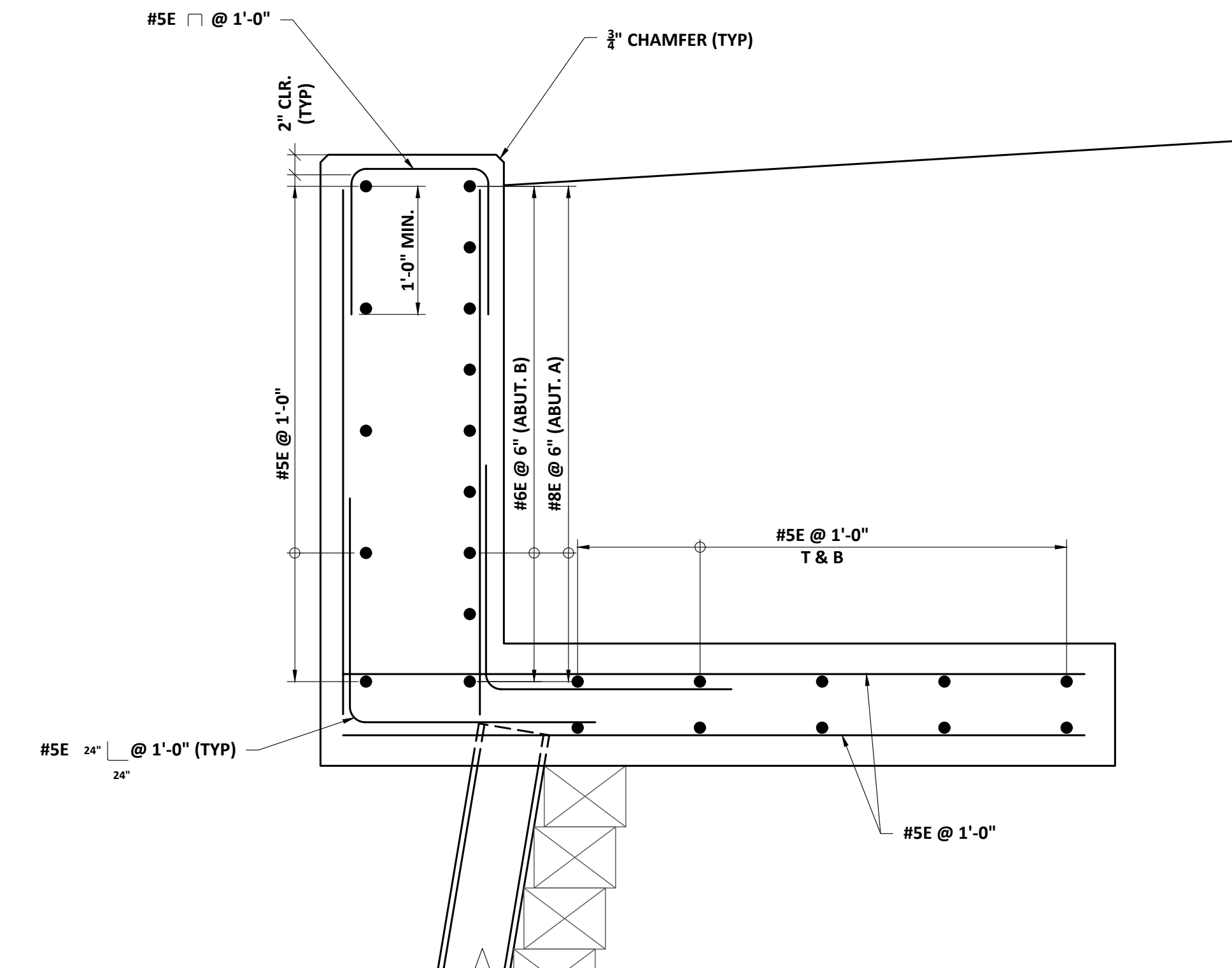
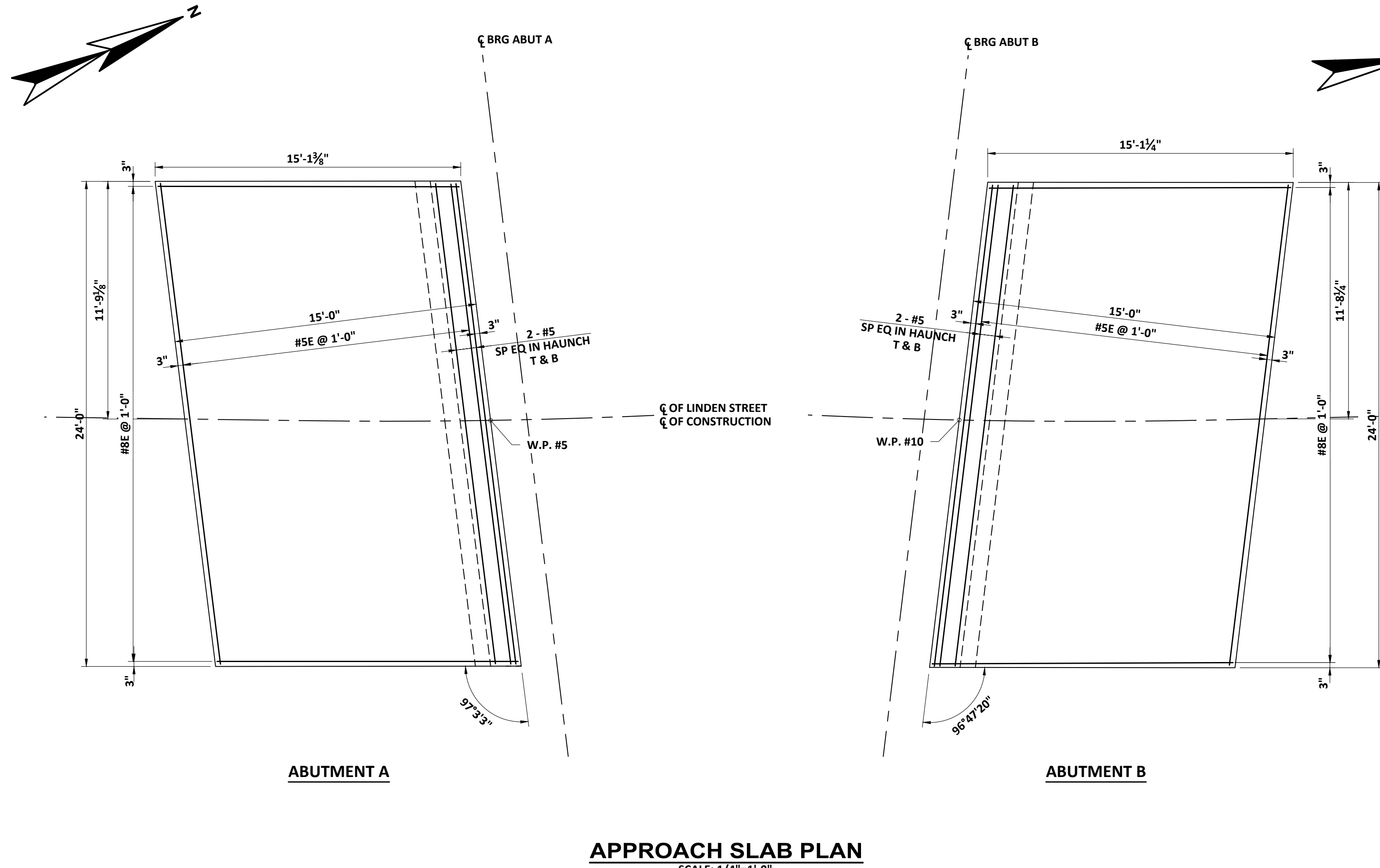
TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
 BRIDGE REPAIR
 (081/046)
 TYPICAL SUBSTRUCTURE SECTIONS-I

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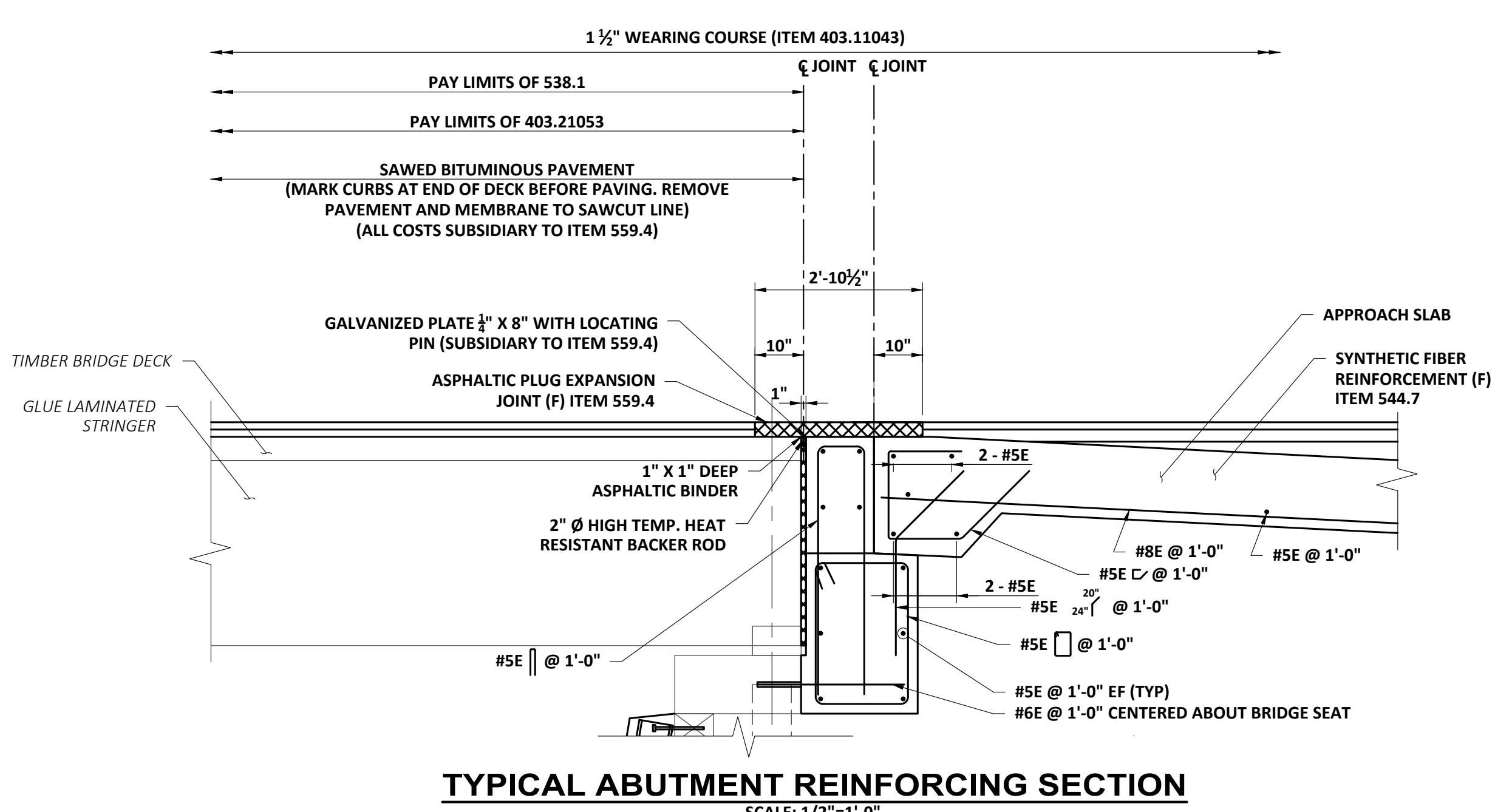
DRAWING
C-6

LAST SAVED BY: RYAN QUAGLIERI 11/29/2023 5:13 PM

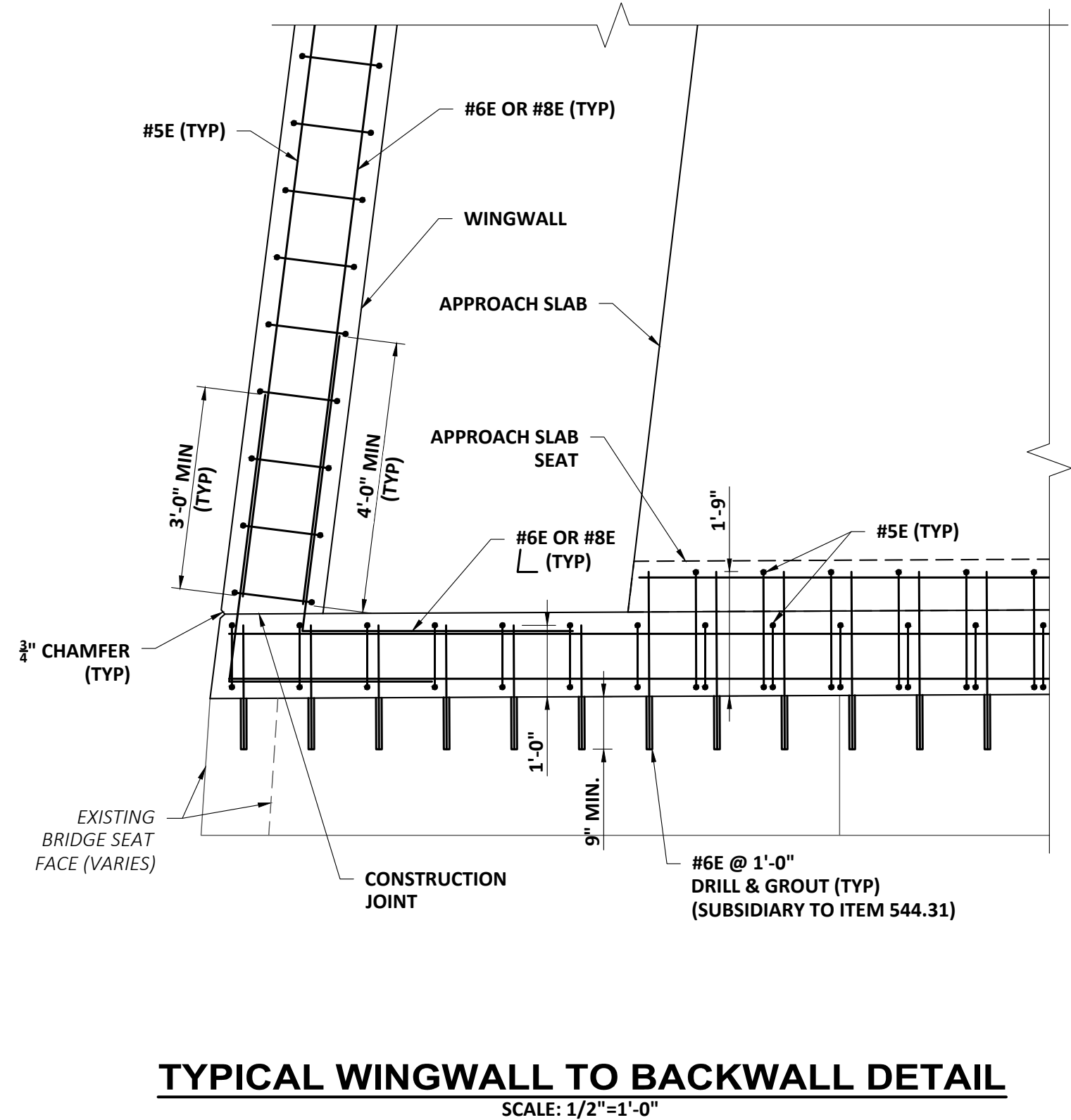
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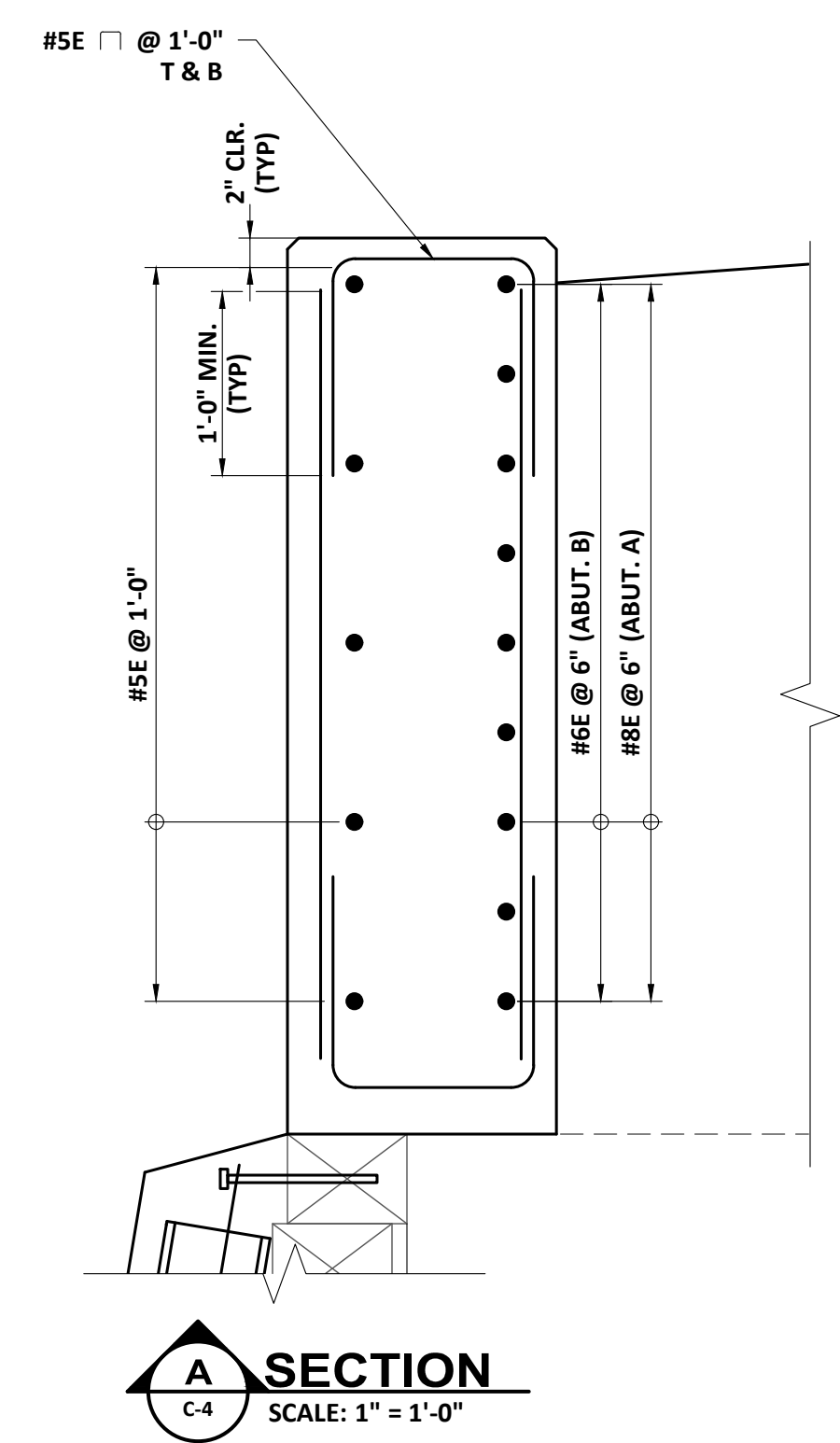
TYPICAL FACING CORNER BAR DETAIL (BID ALT. 1)
SCALE: NTS



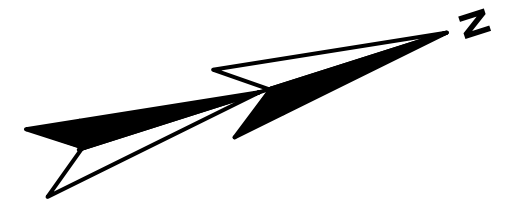
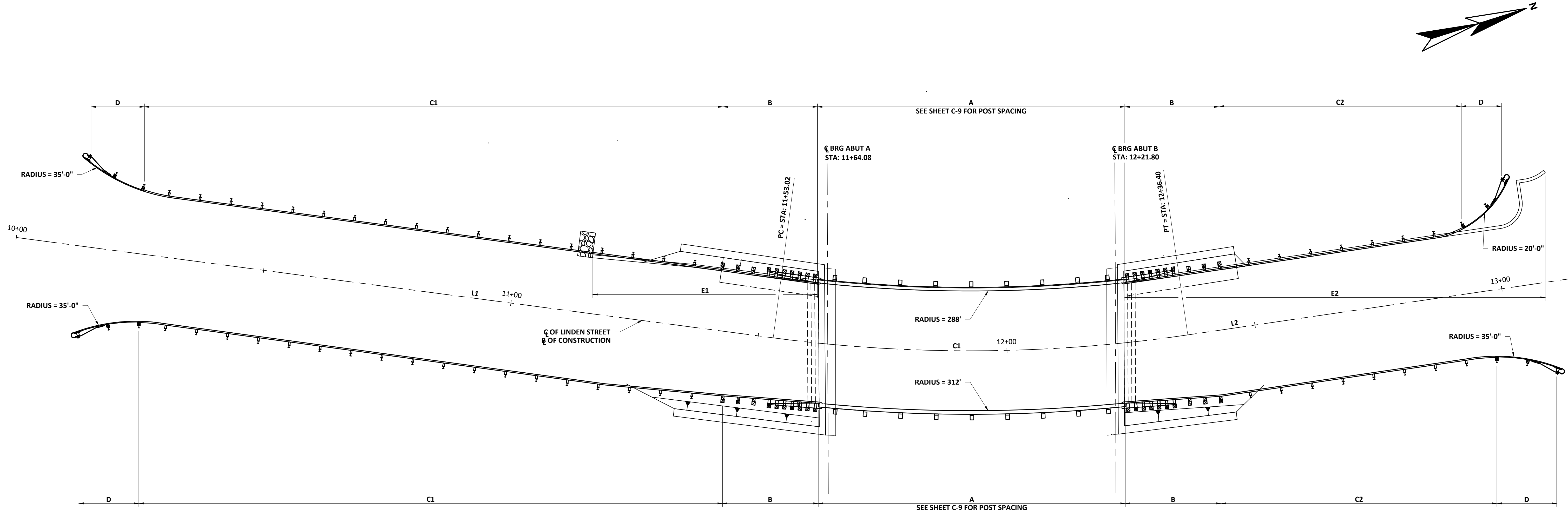
TYPICAL ABUTMENT REINFORCING SECTION
SCALE: 1/2"=1'-0"



TYPICAL WINGWALL TO BACKWALL DETAIL
SCALE: 1/2"=1'-0"



PROJECT NO. 20837D	DESIGNED: W.NUHN	CAD COORD: M.LAPIERRE	CHECKED: W.NUHN	DATE: DECEMBER 2023	APPROVED: J.GALLANT	DATE: DECEMBER 2023	SUBMISSION: CONTRACT DOCUMENTS
NO.	REVISIONS	APPD	DATE				
1							
2							
3							
4							
5							
WRIGHT-PIERCE 603.430.3728 www.wright-pierce.com 230 COMMERCE WAY, SUITE 302, PORTSMOUTH, NH 03801							
TOWN OF EXETER, NEW HAMPSHIRE				TYPICAL SUBSTRUCTURE SECTIONS-II			
LINDEN STREET OVER EXETER RIVER							
(081/046)							
BRIDGE REPAIR							
DRAWING							
C-7							

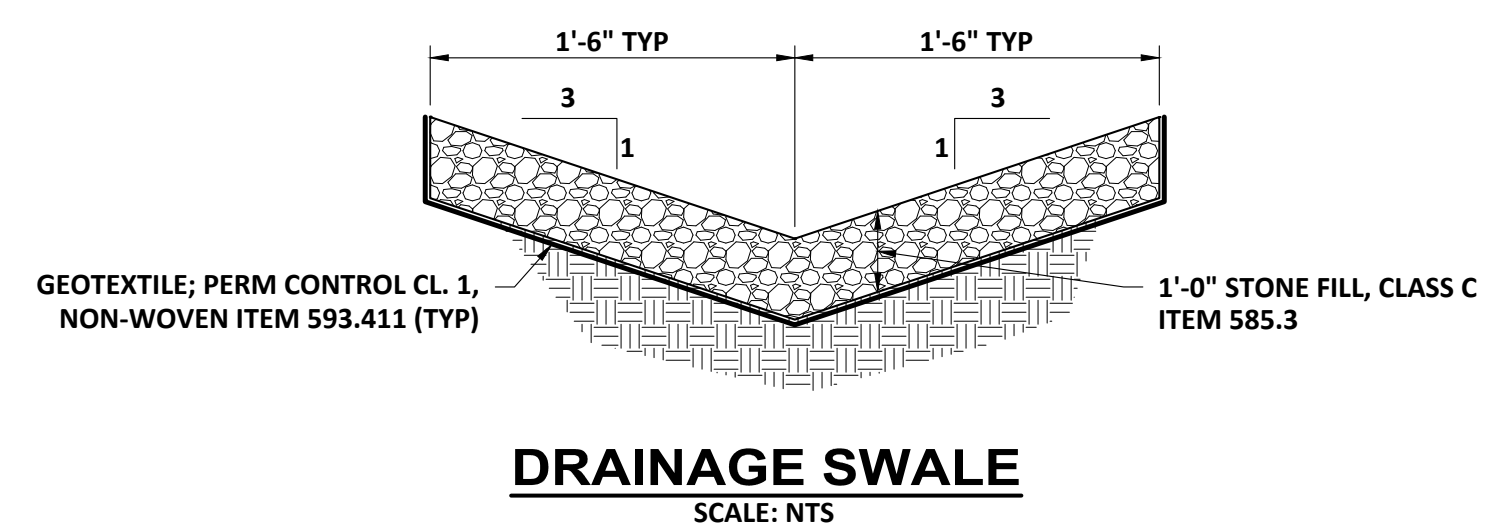


RAIL AND CURB LAYOUT PLAN
SCALE: 1"=10'

RAIL AND CURB LAYOUT NOTES

- A. 563.99 TIMBER BRIDGE RAIL (TL-4)
SEE SHEET C-9 FOR DETAILS
ITEM TOTAL = 118 LF
- B. ITEM 606.1285, BEAM GUARDRAIL (BRIDGE APPROACH UNIT)
SEE SHEETS C-10 & C-11 FOR DETAILS
ITEM TOTAL = 4 UNITS
- C. ITEM 606.18011, 31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (8' STEEL POST)
C1 = 118'-9"
C2 = 56'-3"
ITEM TOTAL = 350 LF

TRANSITION THE HEIGHT OF THE 31" GUARDRAIL OVER A MINIMUM OF 50 FEET TO CONNECT TO THE PROPOSED BRIDGE APPROACH UNIT PER NHDOT SECTION 606 - GUARDRAIL SPECIAL ATTENTION DATED 6/11/2020. TRANSITION IS SUBSIDIARY TO THIS ITEM.
(REFERENCE NHDOT STANDARD NO. GR-1 FOR DETAILS)
- D. ITEM 606.127, BEAM GUARDRAIL (TERMINAL UNIT TYPE G-2) (STEEL POST)
(REFERENCE NHDOT STANDARD NO. GR-10 FOR DETAILS)
1 UNIT = 12'-6"
ITEM TOTAL = 4 UNITS
- E. ITEM 609.811 BITUMINOUS CURB, TYPE B (4" REVEAL)
E1 = 45 LF
E2 = 95 LF
ITEM TOTAL = 140 LF



DRAINAGE SWALE
SCALE: NTS

NO	REVISIONS	APPD	DATE

PROJECT NO: 20837D	DESIGNED: W.NUNN
CAD COORD: M.LAPIERRE	CHECKED: W.NUNN
CAD: M.LAPIERRE	DATE: DECEMBER 2023
APPROVED: J.GALLANT	DATE: DECEMBER 2023
SUBMISSION: CONTRACT DOCUMENTS	



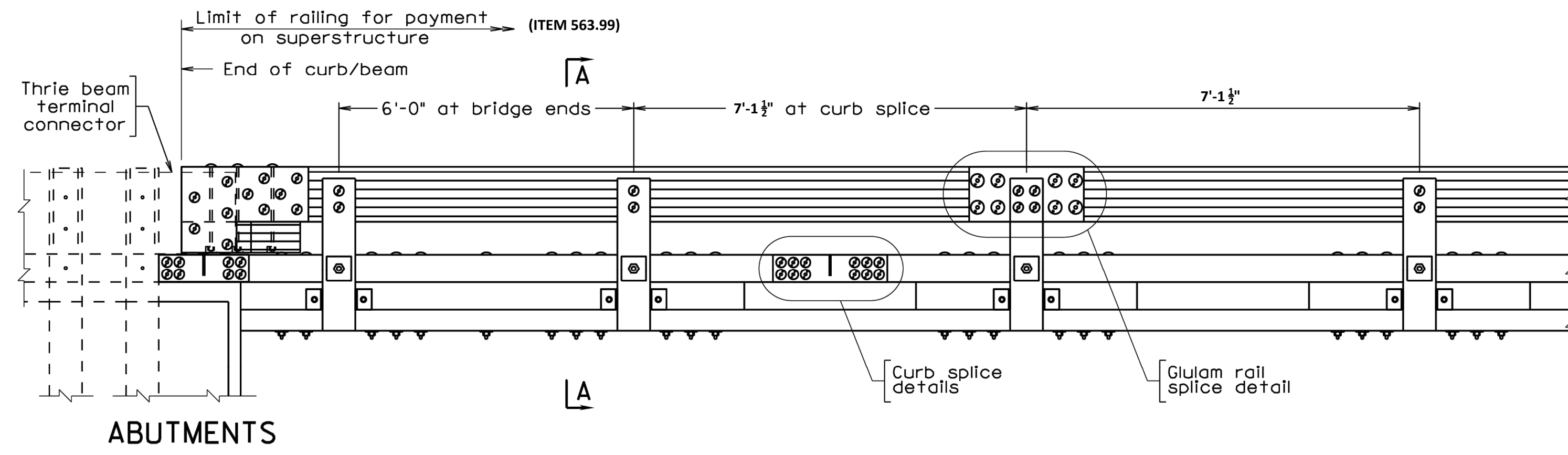
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TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR
RAIL AND CURB LAYOUT
DRAWING
C-8

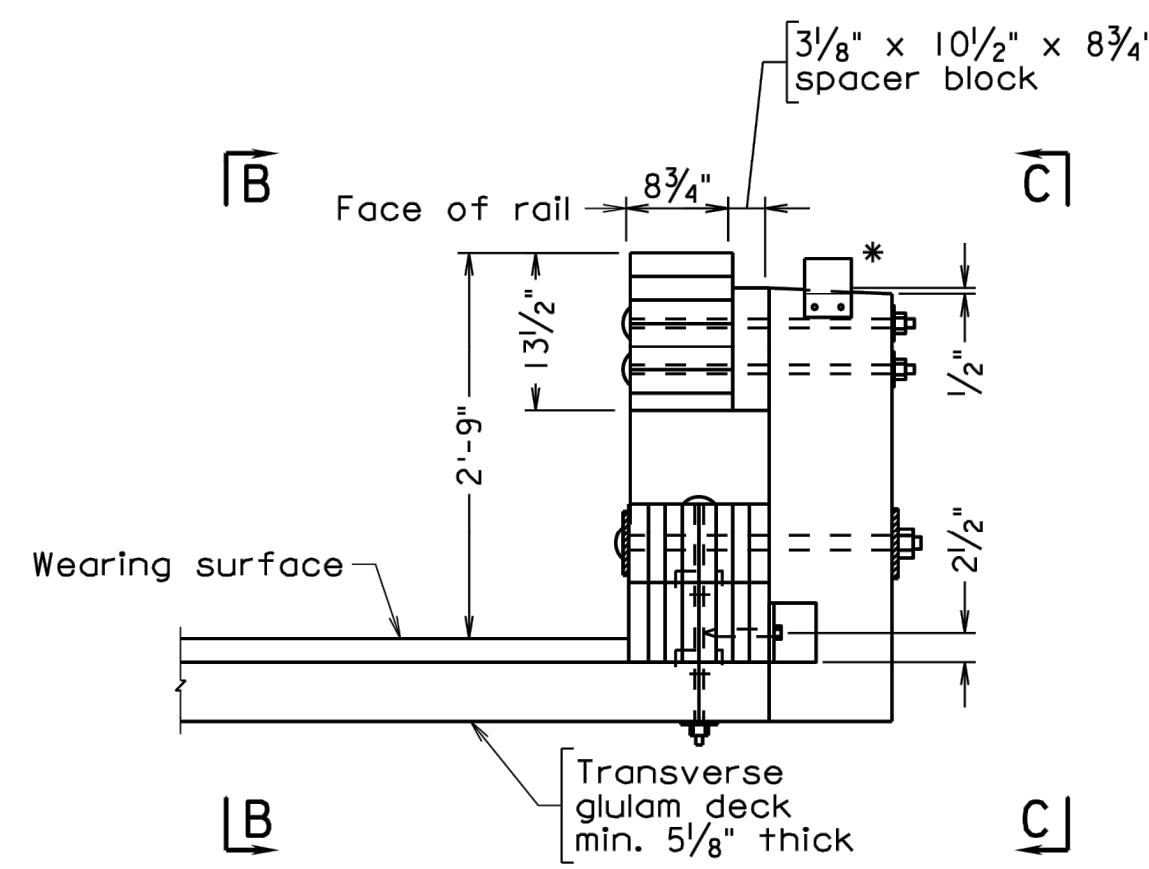
Scaled and Signed by:
Prasad L. Nallapaneni
Lic. No. 033003
On the date of
May 18, 2016

A copy of the original
sealed and signed
drawing is on file in the
Central Office.

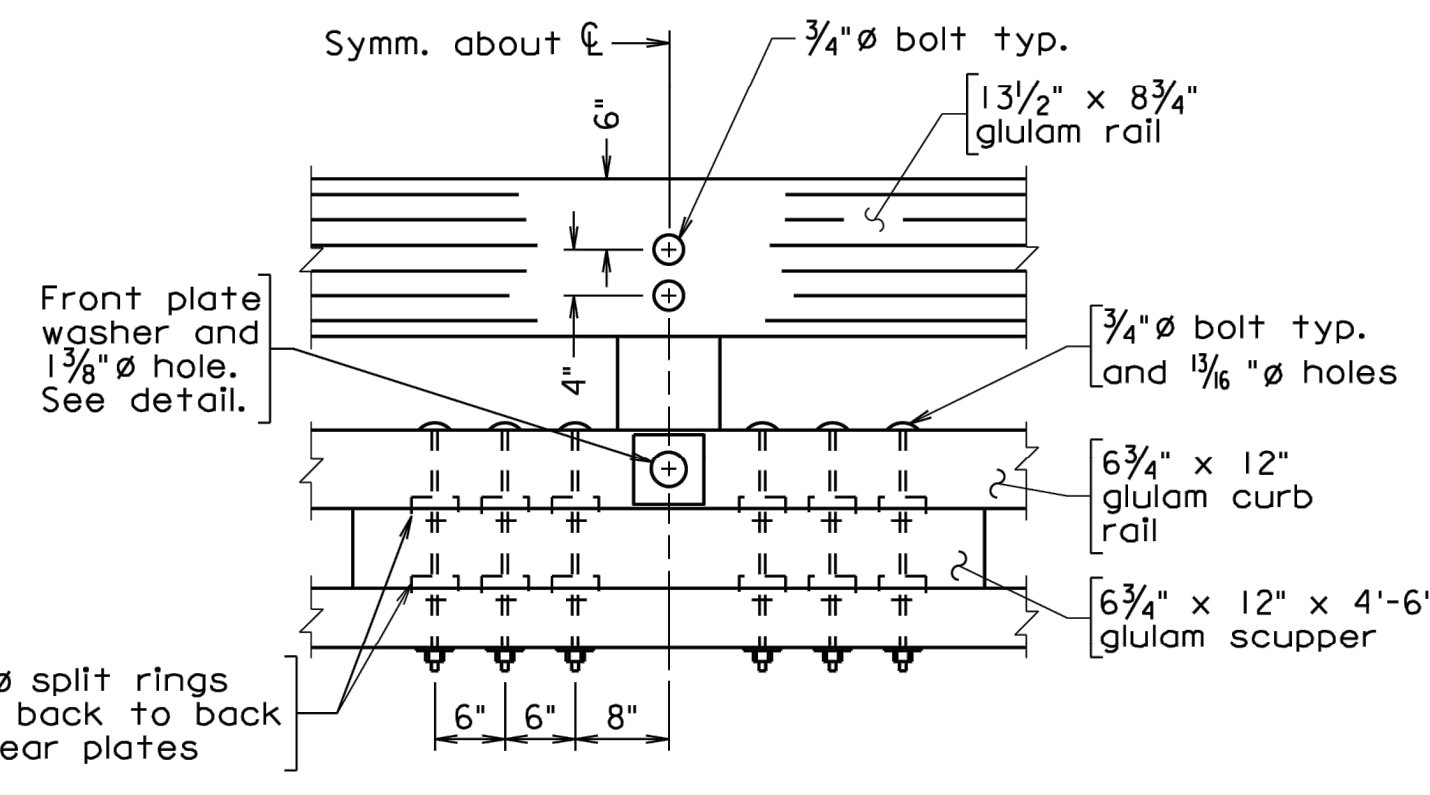
VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER



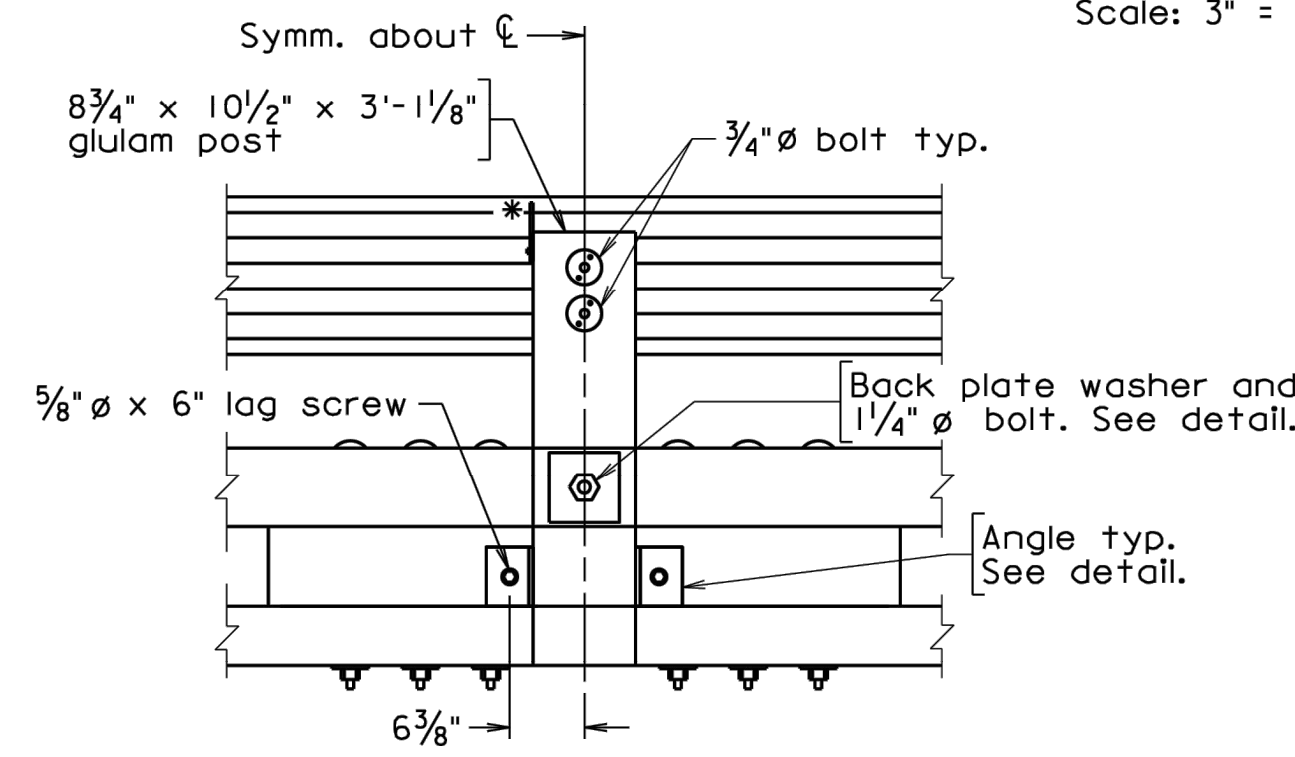
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Scale: 1/2" = 1'-0"



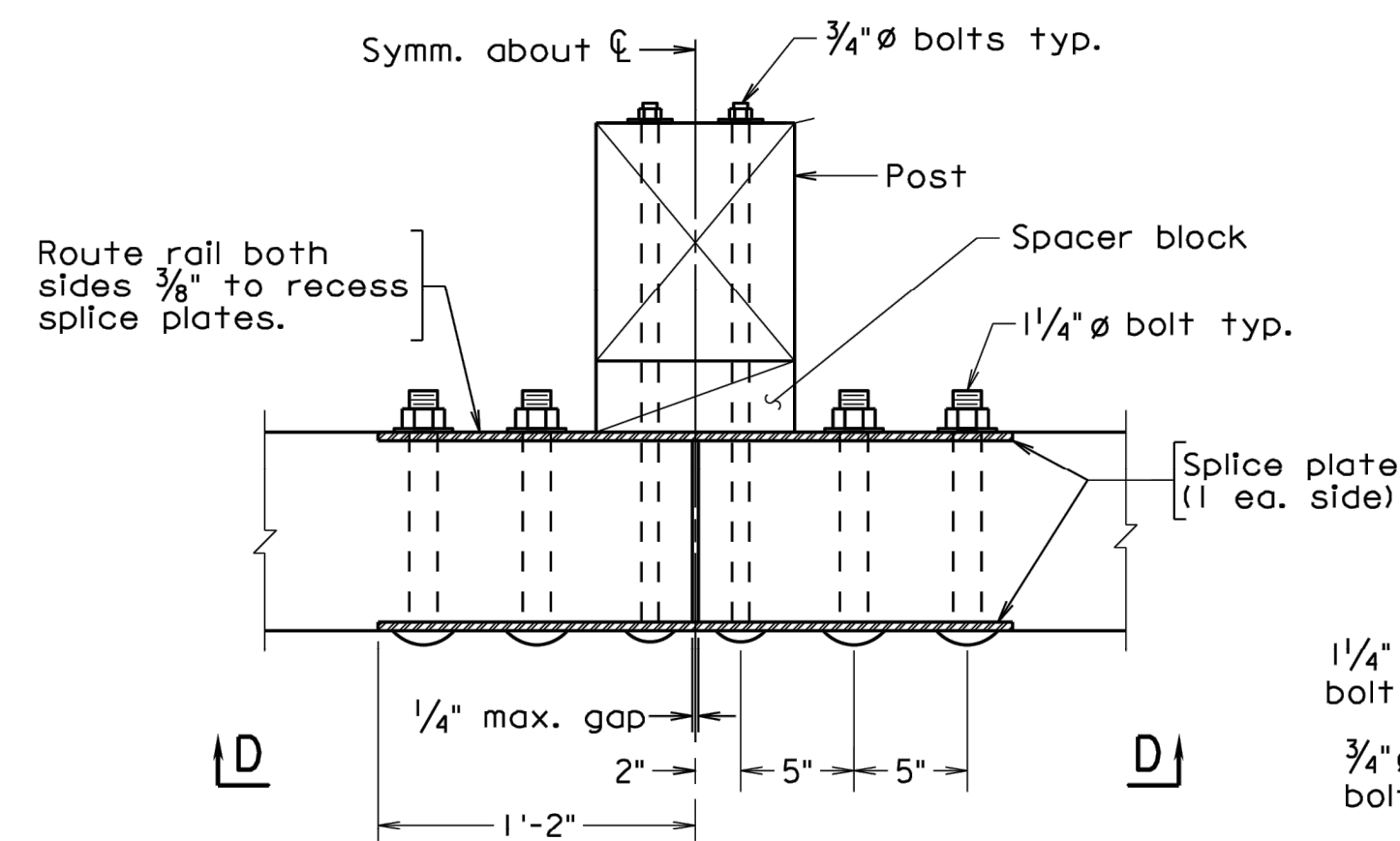
SECTION A-A



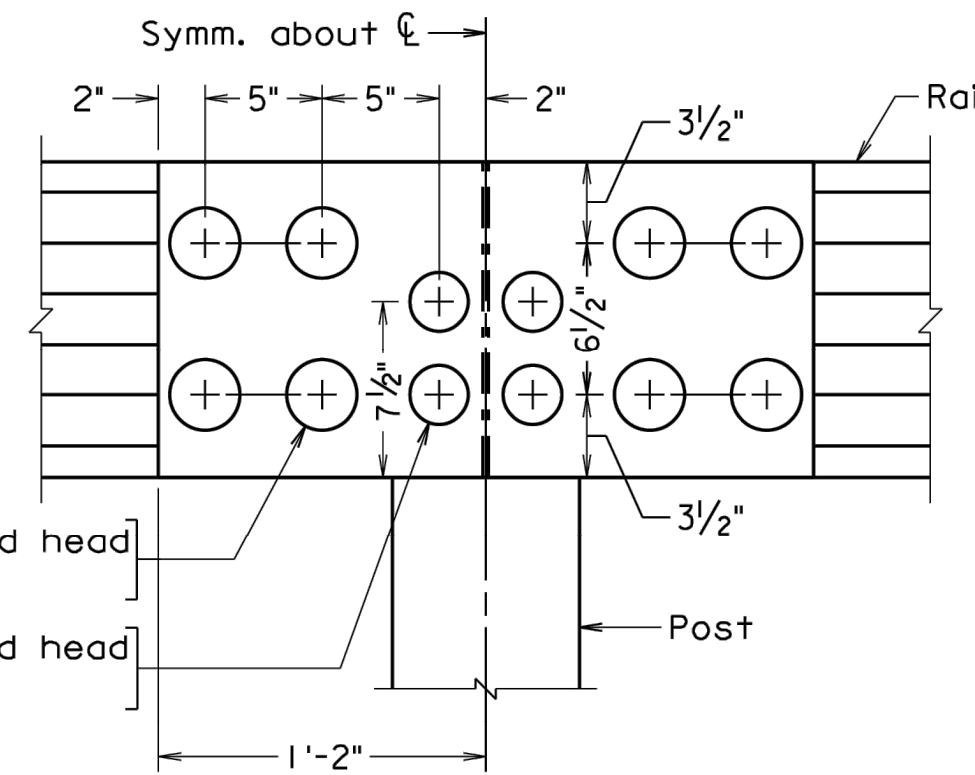
VIEW B-B



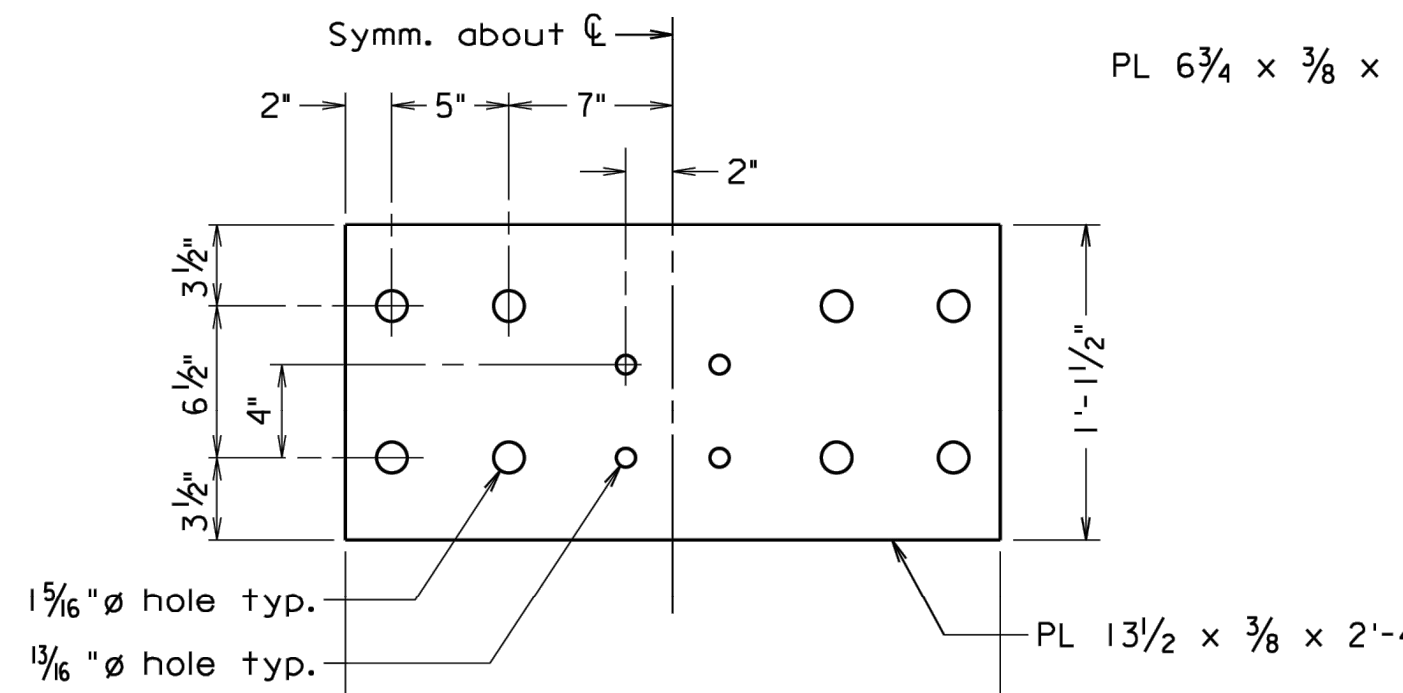
VIEW C-C



GLULAM RAIL SPLICE
Scale: 1/2" = 1'-0"



VIEW D-D
Scale: 1/2" = 1'-0"



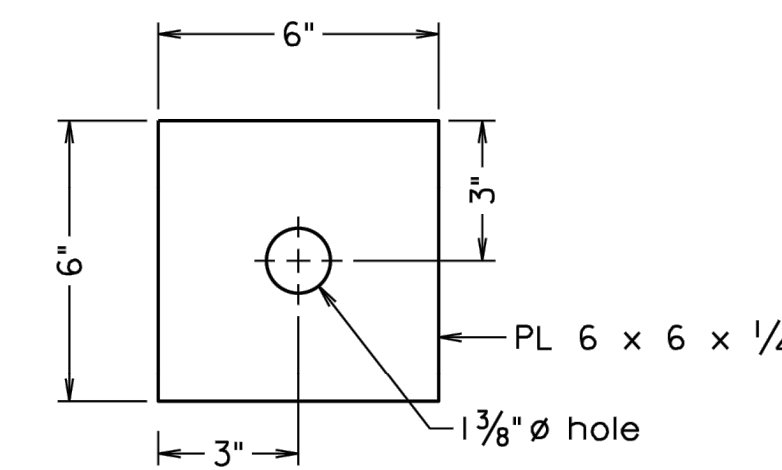
STEEL SPLICE PLATE
Scale: 1/2" = 1'-0"

NOT TO SCALE
Scale: 3/4" = 1'-0" unless otherwise noted.

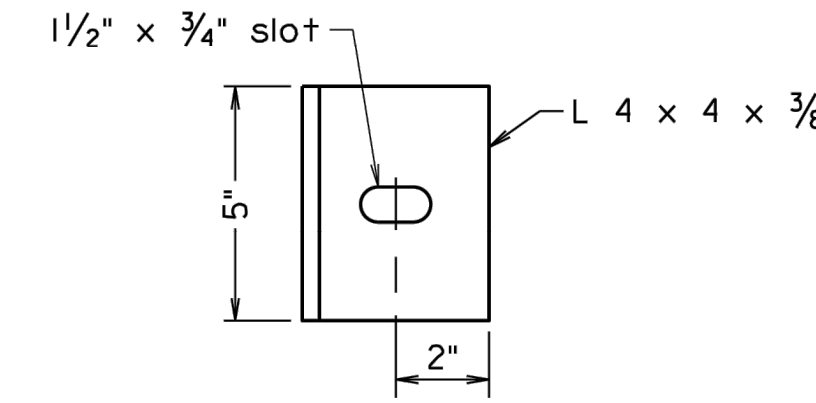
STATE	FEDERAL AID	ROUTE	PROJECT	ROUTE	PROJECT	SHEET NO.
VA.						

Notes:

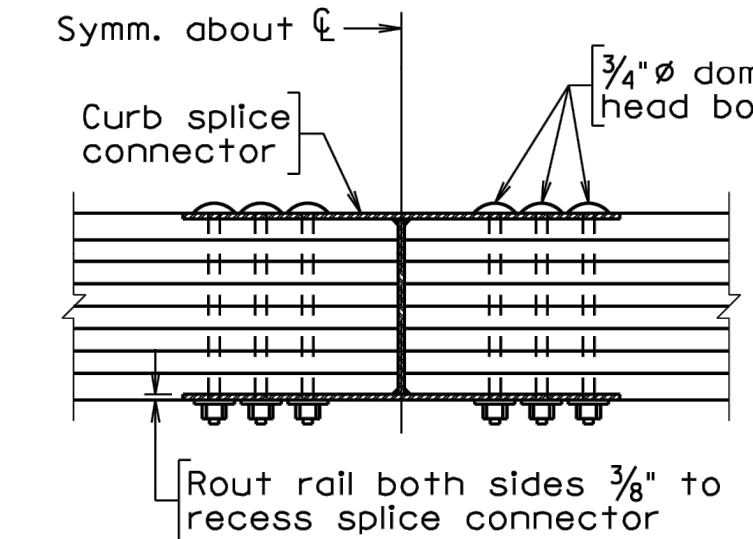
For notes, rail connections and miscellaneous details, see sheet C-10.
For details of terminal transition, see sheet C-11.



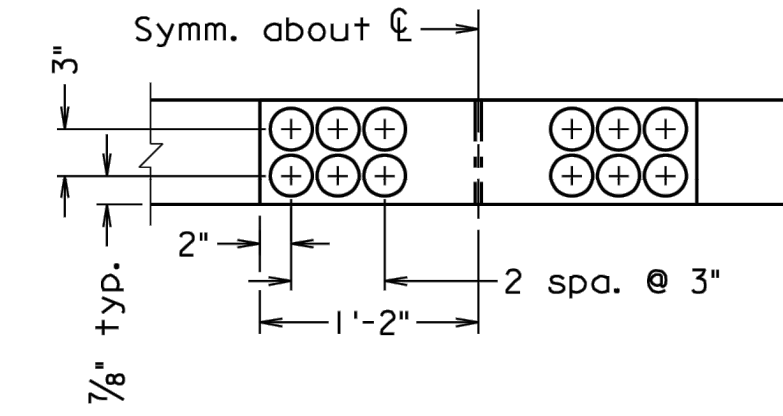
FRONT AND BACK
PLATE WASHERS
Scale: 3" = 1'-0"



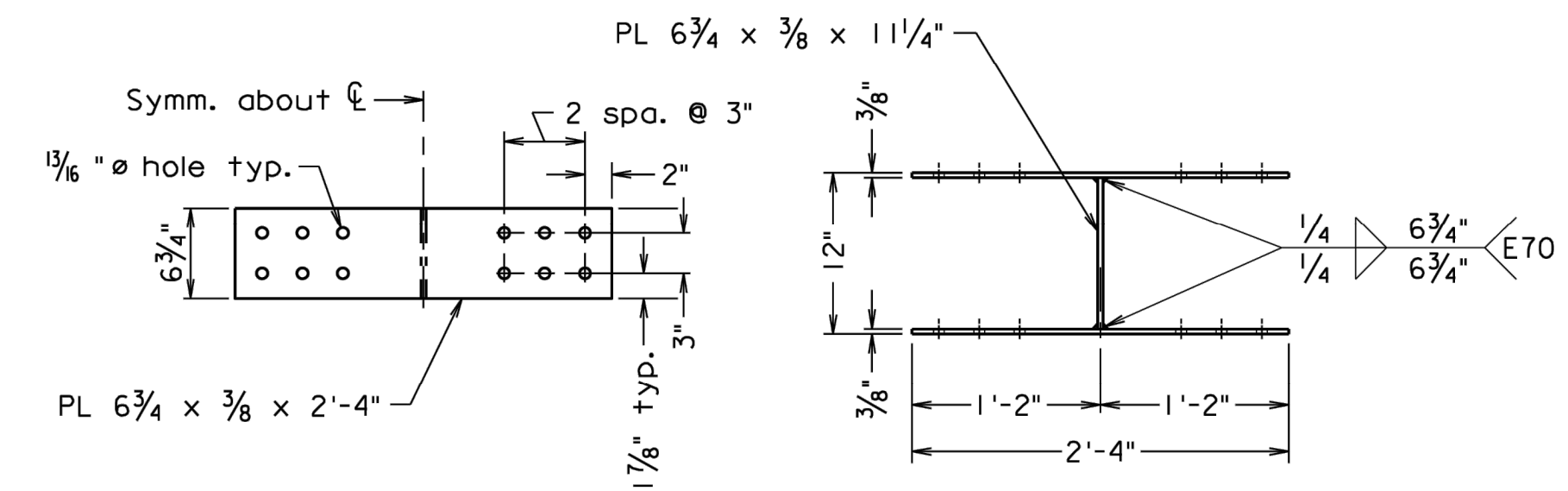
ANGLE DETAIL
Scale: 3" = 1'-0"



CURB SPLICE PLAN VIEW
Scale: 1" = 1'-0"



CURB SPLICE FRONT VIEW
Scale: 1" = 1'-0"



CURB SPLICE DETAILS
Scale: 1" = 1'-0"

NOTES:

- 1. ALL WORK DEPICTED ON THIS PLAN IS SUBSIDIARY TO ITEM 563.99, UNLESS OTHERWISE NOTED.
- 2. MODIFY VERTICAL POST LENGTH DIMENSION AS REQUIRED TO MEET DECK AND PAVEMENT THICKNESS.
- 3. 2'-9" DIMENSION FROM PAVEMENT TO TOP OF RAIL SHALL NOT BE MODIFIED.
- 4. THE DIMENSIONS OF THE CURB AND SCUPPER BLOCKS SHALL NOT BE MODIFIED.

No.	Description	Date	Designed: S&B, D.V.	Date	Plan No.	Sheet No.
			Drawn: S&B, D.V.		BRSBD-1	
			Checked: S&B, D.V.			
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION SBD01d RAILING						

APPD DATE

REVISIONS

NO	DATE	DESCRIPTION
1		
2		
3		
4		
5		

PROJECT NO: 20837D
DESIGNED: W.NUHN
CAD COORD: MLAPIERRE
CHECKED: W.NUHN
DATE: DECEMBER 2023
APPROVED: J.GALLANT
DATE: DECEMBER 2023
SUBMISSION: CONTRACT DOCUMENTS

JASON GALLANT
No. 10551
12/15/23

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TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR

RAIL DETAILS I

DRAWING C-9

LAST SAVED BY: WESTLEY NUHN 11/29/2023 11:01 AM

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brsbd-2.dgn

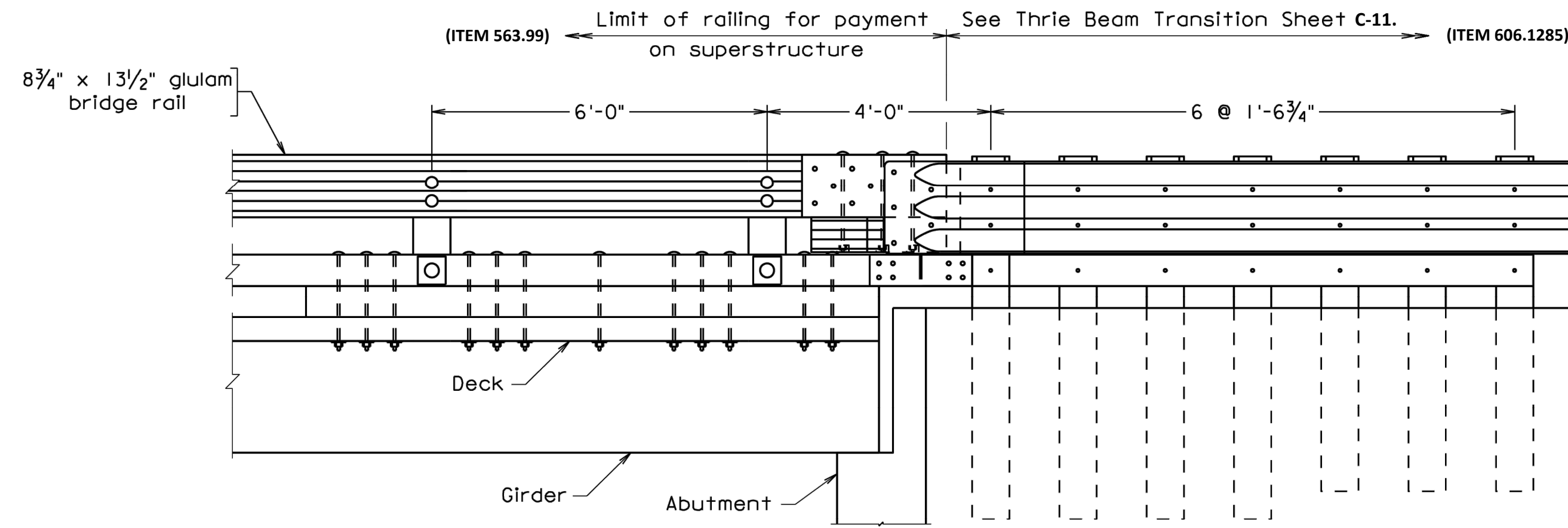
10-31-2019

BRSBD-2

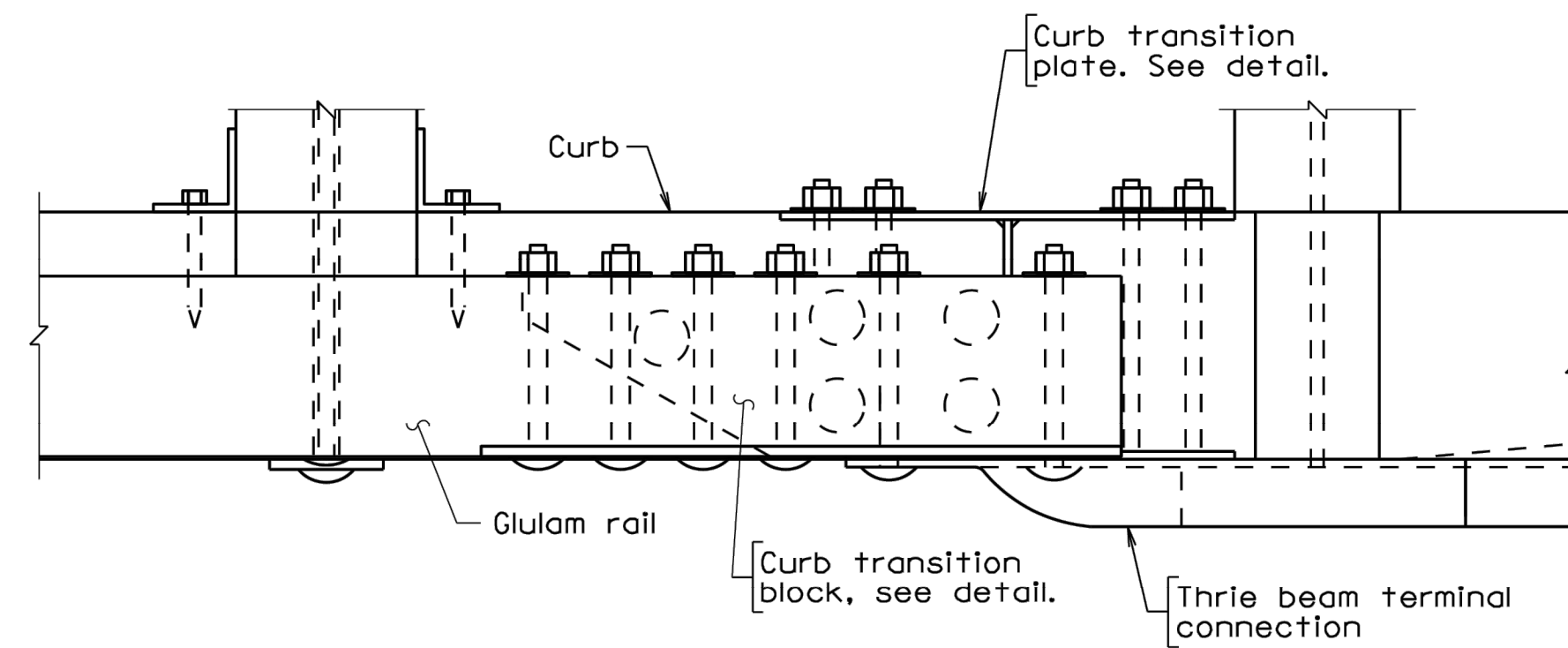
Sealed and Signed by:
Junyi Meng
Lic. No. 033572
On the date of
October 31, 2019

A copy of the original
sealed and signed
standard drawing
is on file in the
Central Office.

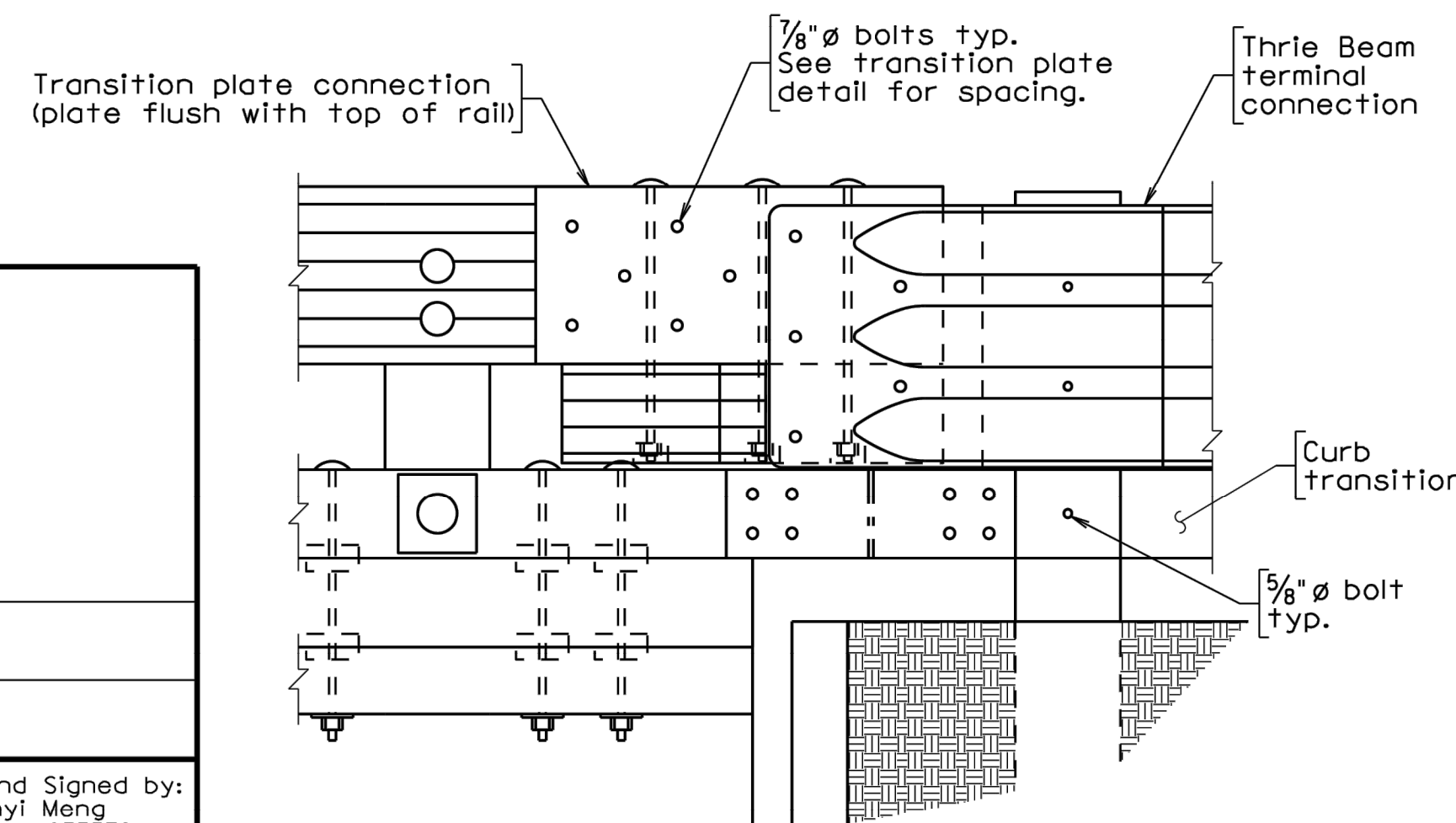
VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER



TRANSITION ELEVATION
Scale: 1/2" = 1'-0"



PLAN VIEW OF TRANSITION JOINT

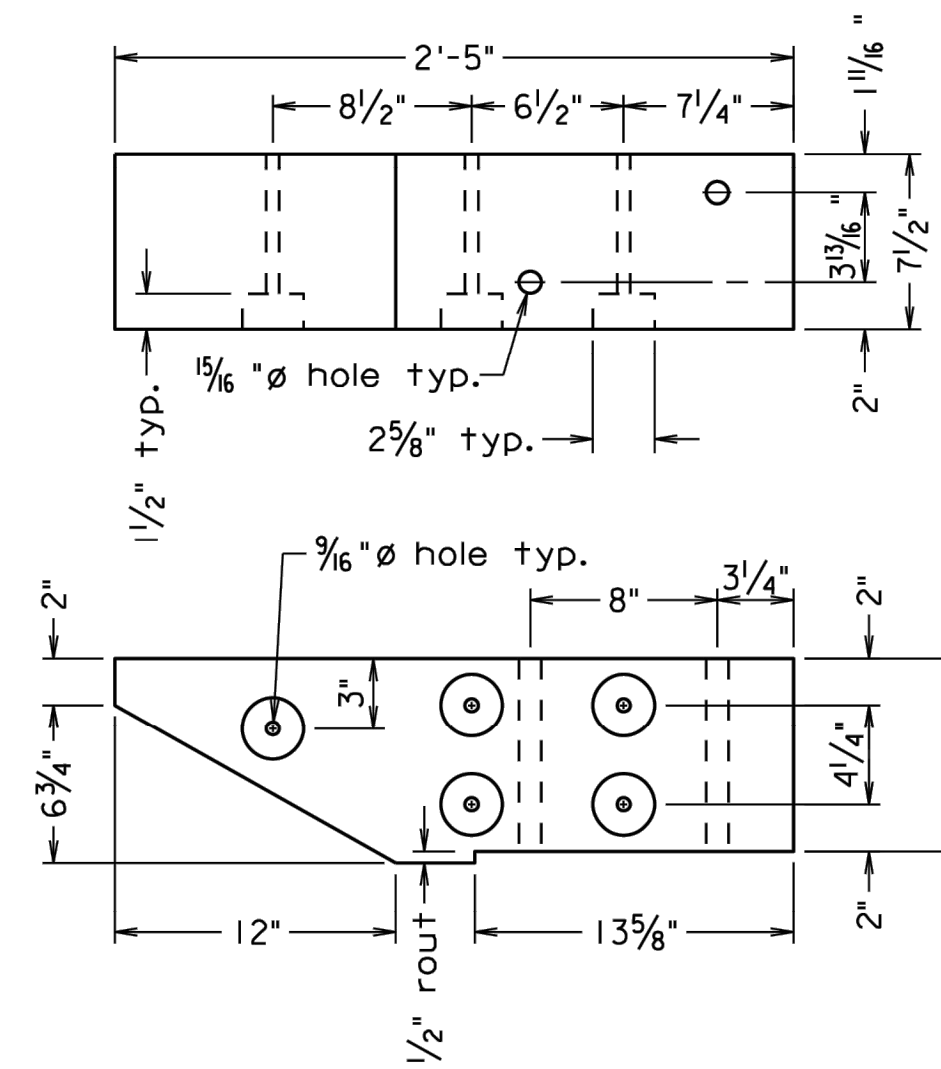


ELEVATION OF TRANSITION JOINT
Scale: 1" = 1'-0"

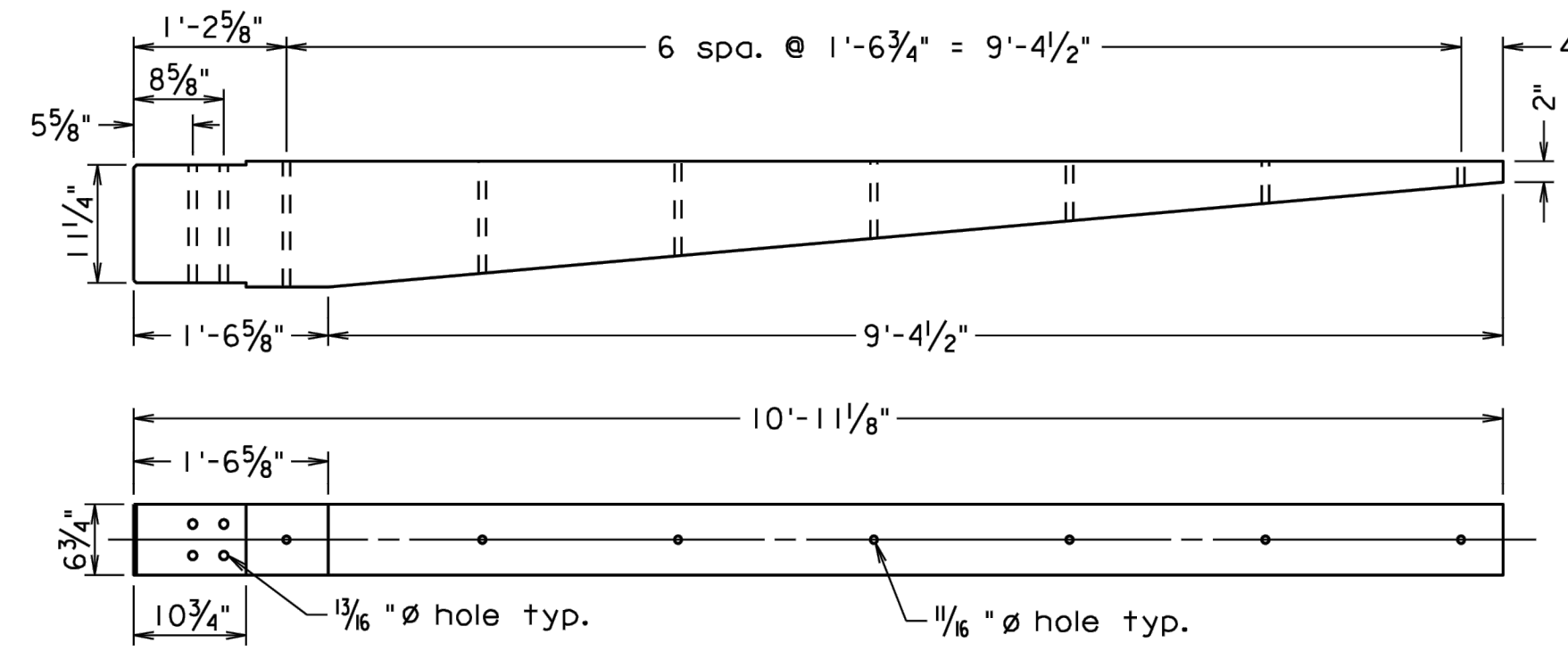
NOTE:
ALL WORK DEPICTED ON THIS PLAN IS SUBSIDIARY TO
ITEM 606.1285, UNLESS OTHERWISE NOTED.

NOTE:

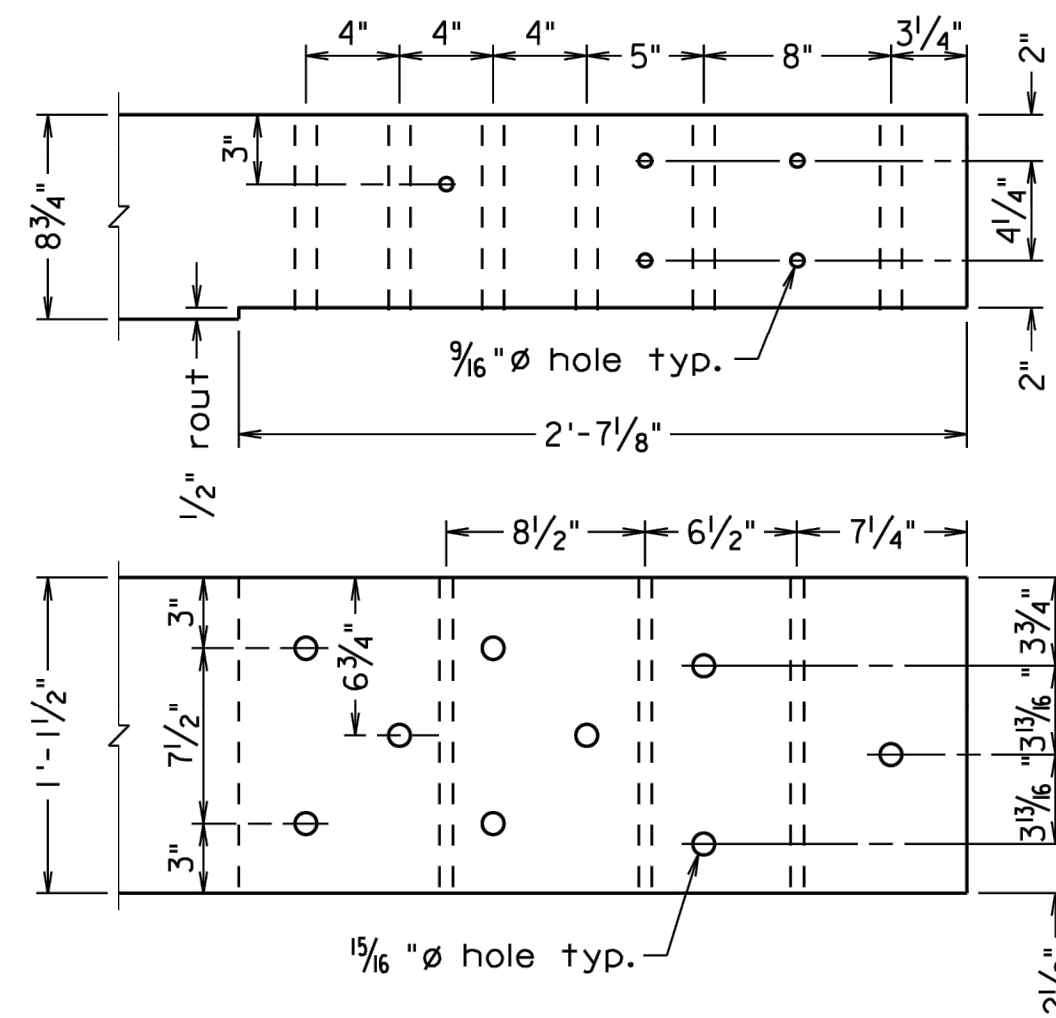
THE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD HIGHWAY/BRIDGE PLANS DO NOT INCLUDE A TIMBER BRIDGE RAIL SYSTEM. THIS TRANSITION RAILING SYSTEM IS RATED FOR TEST LEVEL 4 SAFETY PERFORMANCE CRITERIA IN ACCORDANCE WITH NATIONAL COOPERATIVE HIGHWAY RESEARCH BOARD (NCRP) REPORT 350: RECOMMENDED PROCEDURES FOR THE SAFETY AND PERFORMANCE EVALUATION OF HIGHWAY FEATURES. REFER TO TRANSPORTATION RESEARCH RECORD 1696, PAPER No. 580110 FOR PROPOSED RAILING PERFORMANCE CRITERIA.



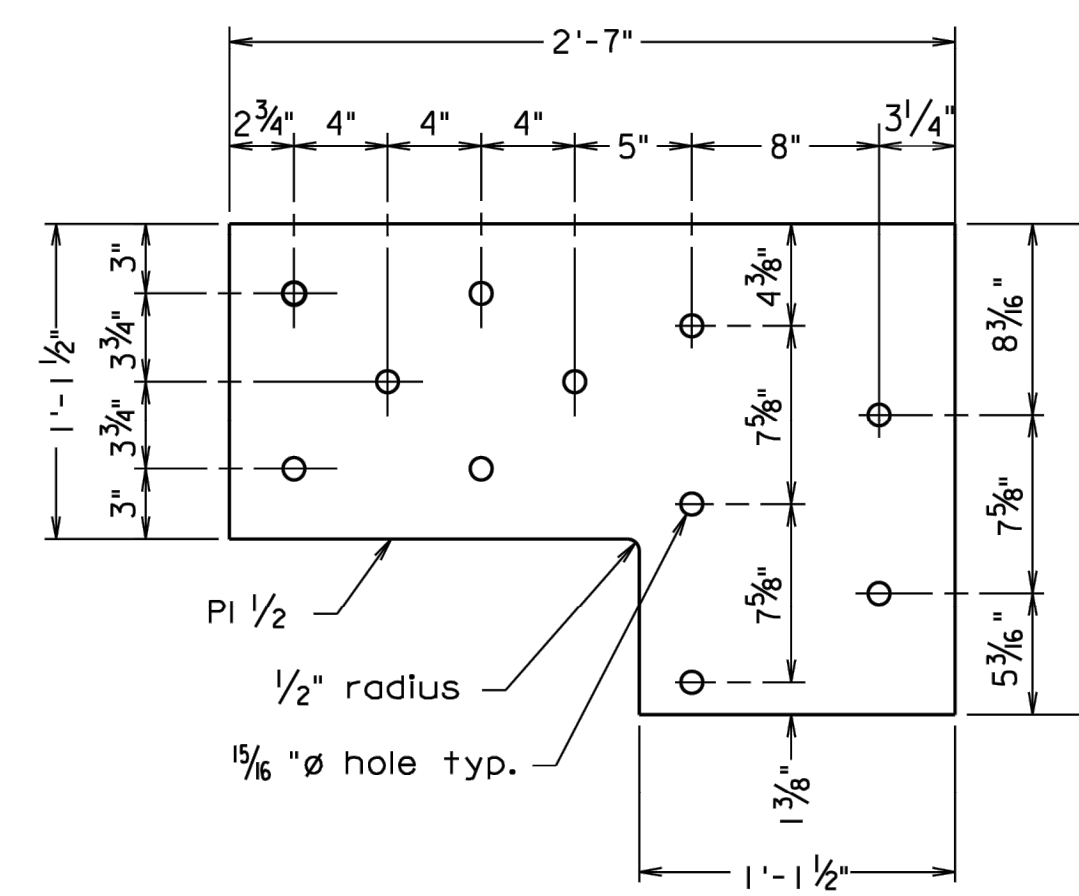
CURB TRANSITION BLOCK DETAIL



CURB TRANSITION DETAIL
Scale: 3/4" = 1'-0"



RAIL END DETAIL



TRANSITION PLATE DETAIL

NOT TO SCALE
Scale: 1/2" = 1'-0" unless otherwise noted.

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STATE	FEDERAL AID		STATE	SHEET
ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.				

Notes:

Plan dimensions shown are measured in the respective horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

All timber shall conform to the requirements of AASHTO M168, Dense Select Structural Southern Pine, and preservative treated in accordance with the Specifications.

The glulam rail shall be fabricated with West Coast Douglas Fir and treated with pentachlorophenol in heavy oil to a minimum net retention of 0.6 pcf as specified in AWP Standard C14.

All structural steel shall be ASTM A709 Grade 50 and shall be hot dipped galvanized.

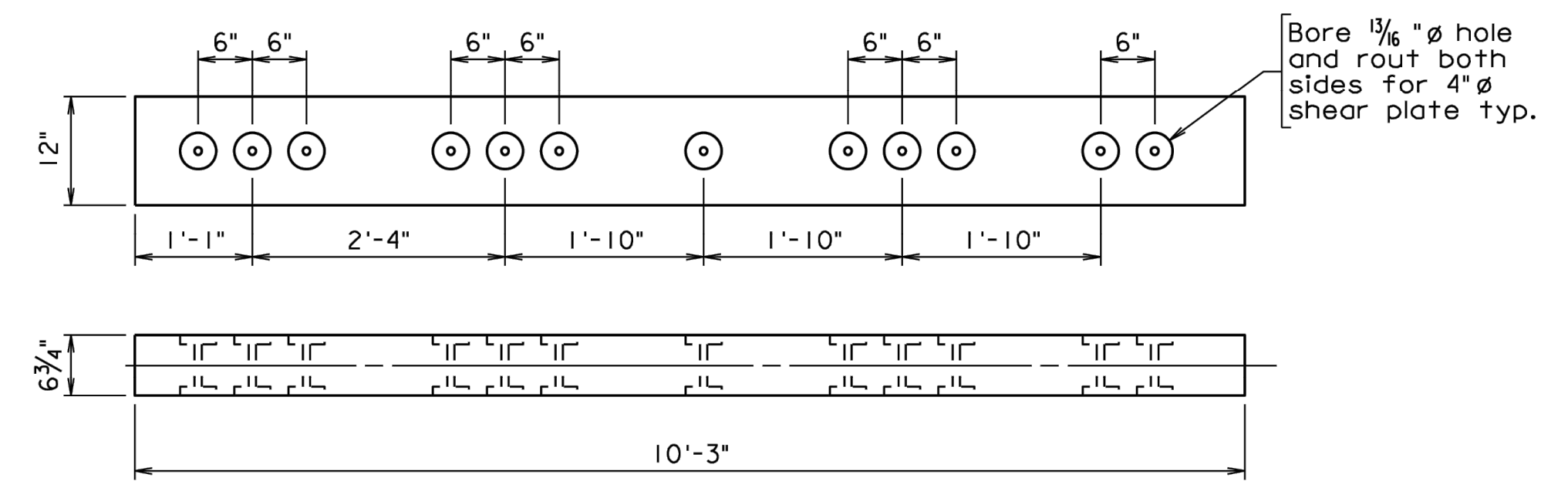
Round head bolts shall be ASTM A449. All other bolts shall be ASTM F3125 Grade A325. Nuts shall be ASTM A563 Grade DH or ASTM A194 Grade 2H. Washers shall be ASTM F436. All steel shall be hot dip galvanized.

All holes for bolts shall be 1/8" larger in diameter than bolt diameter unless otherwise noted on plans.

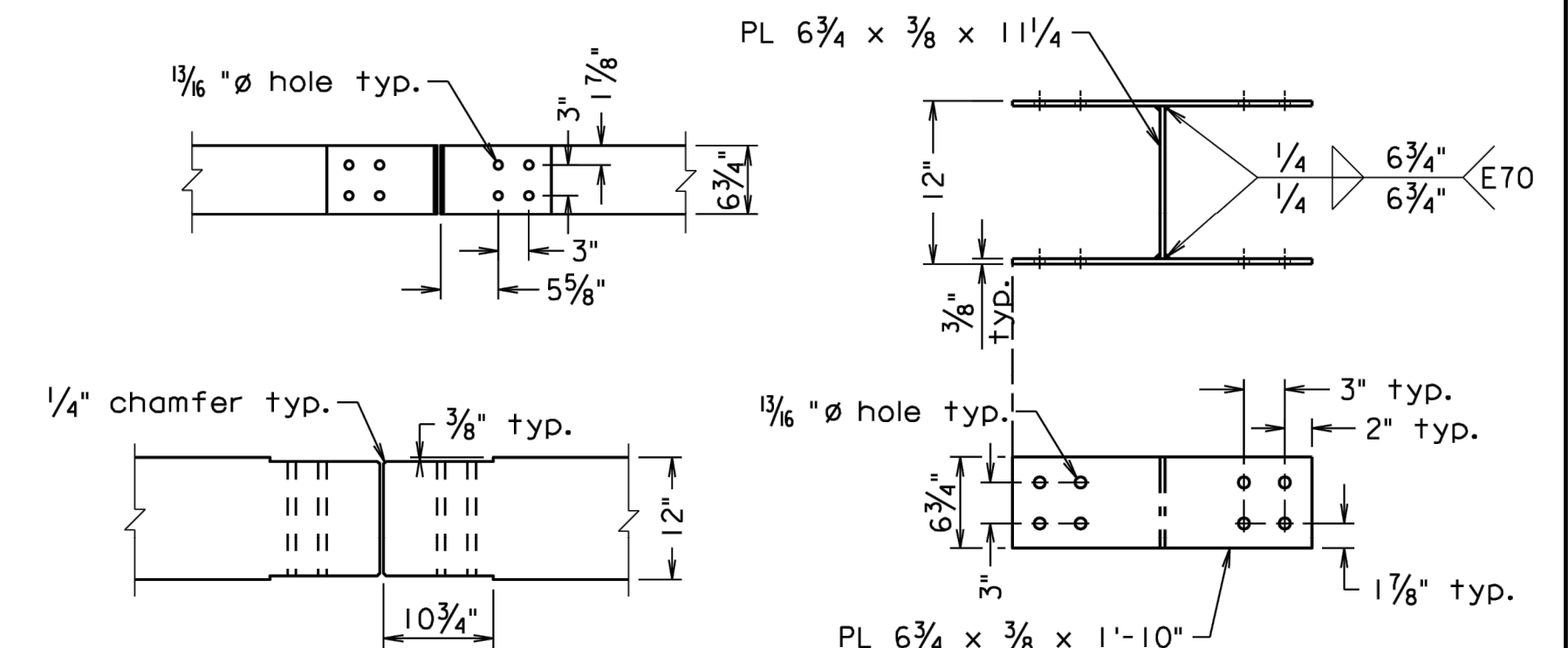
All high-strength bars shall be ASTM A722 and shall be galvanized.

Curb splices should be located adjacent to rail splices.

Barrier delineator size, color, and spacing shall be in accordance with the Specifications.



TRANSITION SCUPPER BLOCK
Scale: 3/4" = 1'-0"



CURB TRANSITION BORING DETAIL
Scale: 3/4" = 1'-0"

CURB TRANSITION SPLICE DETAILS
Scale: 1" = 1'-0"

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
SBD01d RAILING TRANSITION DETAILS				
No.	Description	Date	Designed: S&B, RJV	Plan No.
			Drawn: S&B, RJV	BRSBD-2
			Checked: S&B, RJV	Sheet No.
Revisions				

APPD	DATE
REVISIONS	
NO	DATE
1	
2	
3	
4	
5	

PROJECT NO: 20837D
DESIGNED: W/NUHN
CAD COORD: MLAPIERRE
CAD: MLAPIERRE
CHECKED: W/NUHN
DATE: DECEMBER 2023
APPROVED: J.GALLANT
DATE: DECEMBER 2023
SUBMISSION: CONTRACT DOCUMENTS

12/15/23

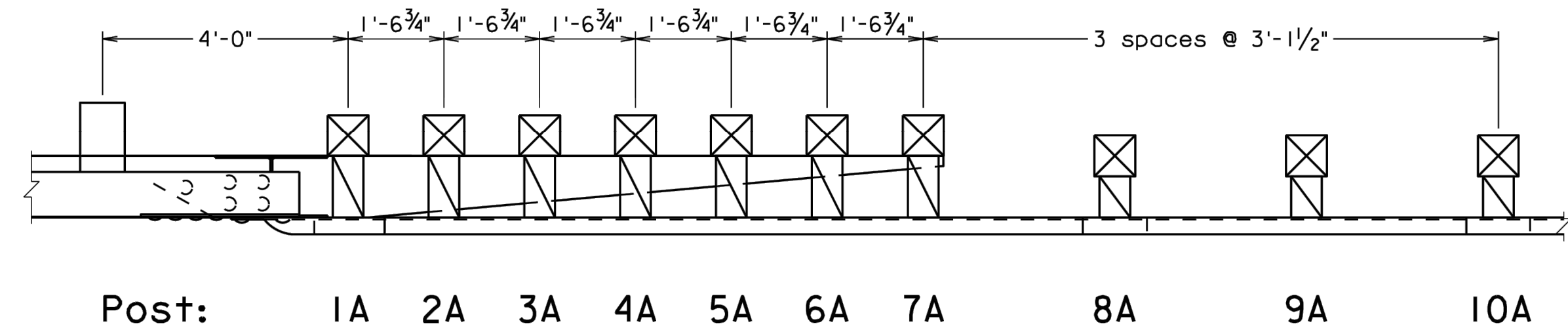
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230 COMMERCE WAY, SUITE 302, PORTSMOUTH, NH 03801

TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR

RAIL DETAILS II

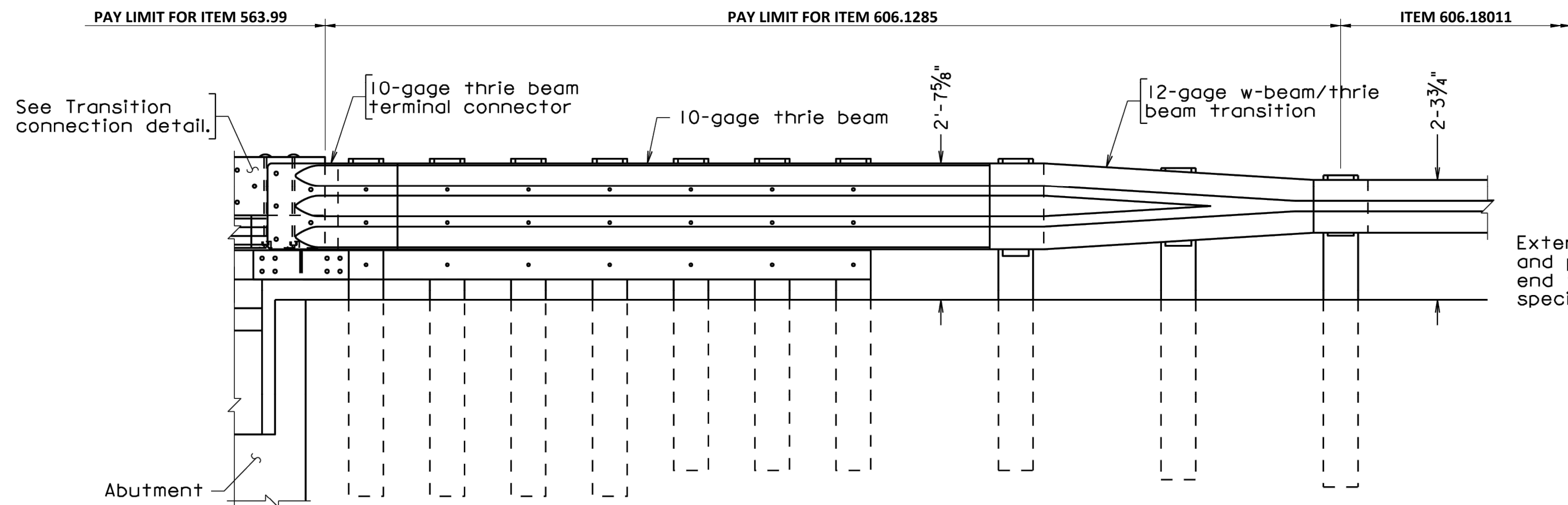
DRAWING
C-10

STATE	FEDERAL AID		STATE		SHEET NO.
VA.	ROUTE	PROJECT	ROUTE	PROJECT	

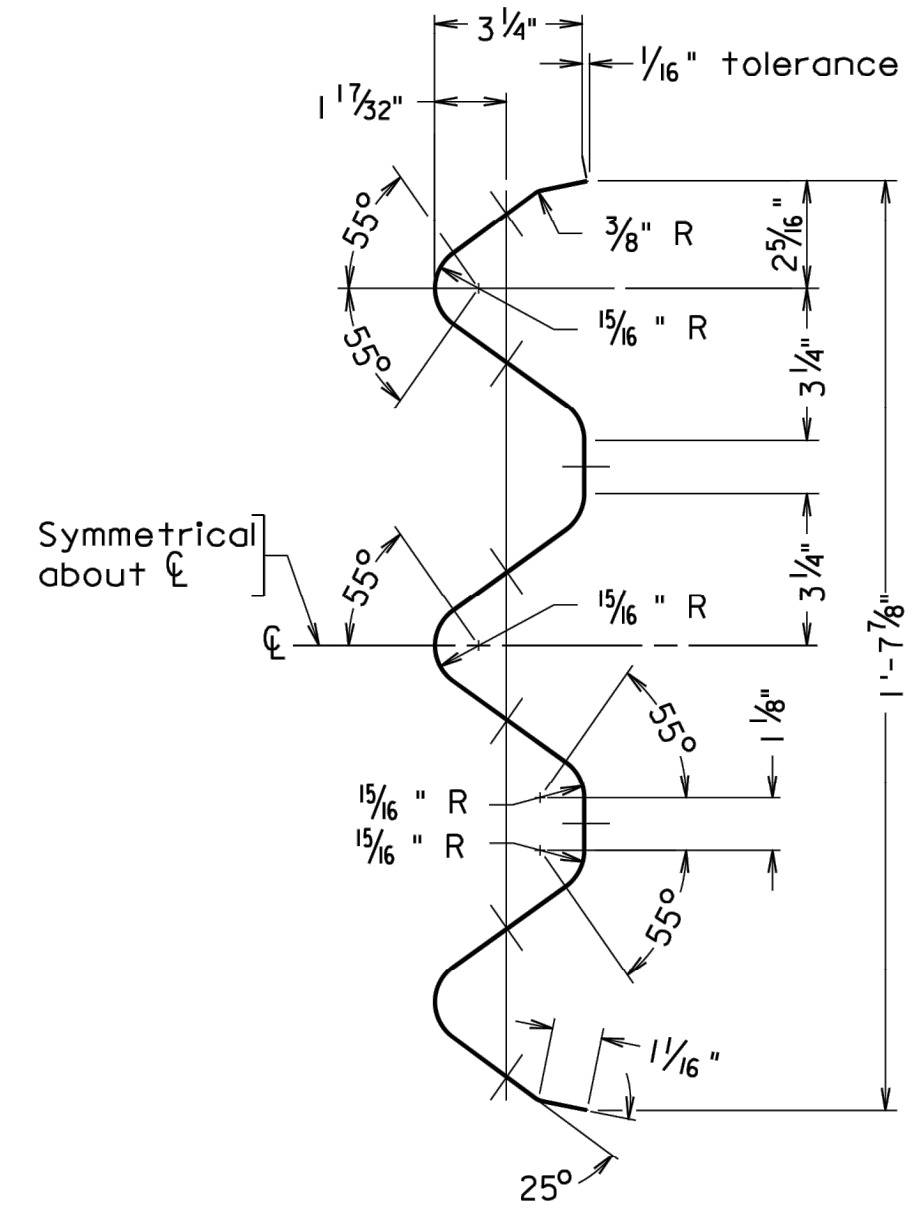


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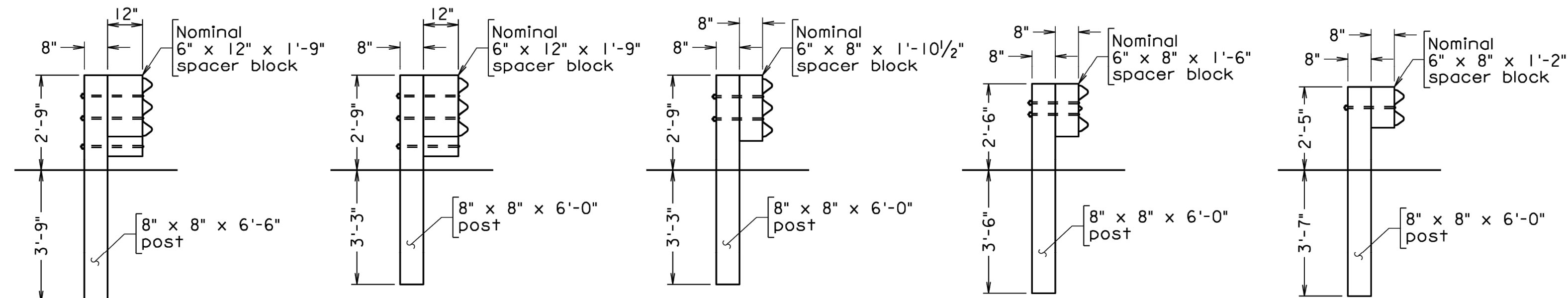
PLAN



ELEVATION

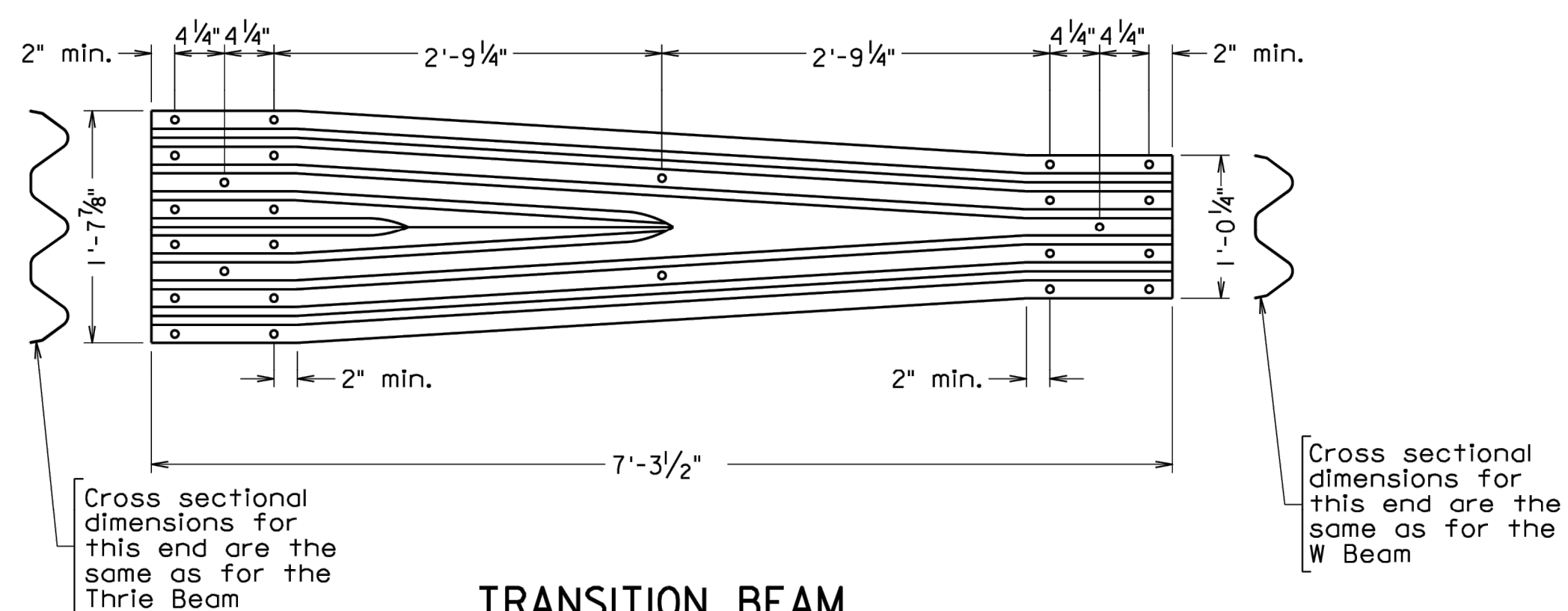


SECTION THRU RAIL AT SPLICE
Scale: 3" = 1'-0"

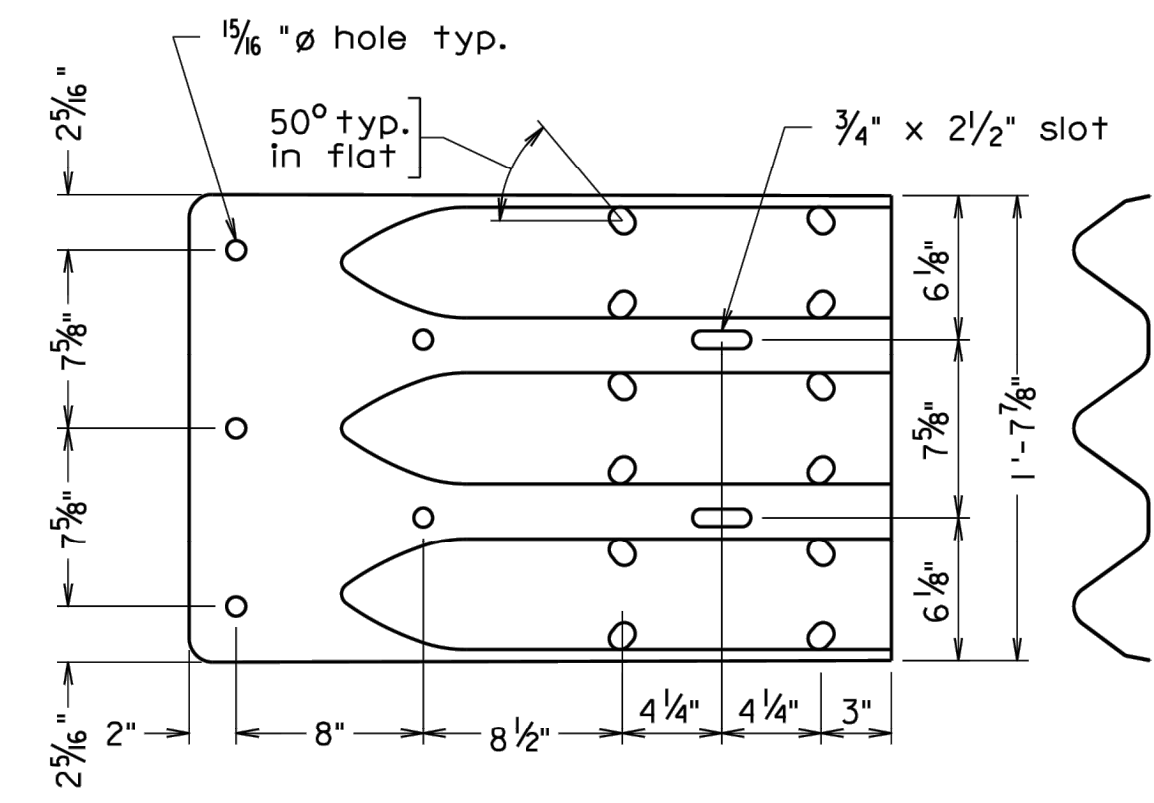


Post: IA-4A 5A-7A 8A 9A 10A

TRANSITION POST
Scale: 3/8" = 1'-0"



TRANSITION BEAM
Scale: 1" = 1'-0"



TERMINAL CONNECTOR
Scale: 1/2" = 1'-0"

NOTE:
ALL WORK DEPICTED ON THIS PLAN IS SUBSIDIARY TO ITEM 606.1285, UNLESS OTHERWISE NOTED.

Notes:

Guardrail components shall be in accordance with VDOT Road and Bridge Standards.
Posts 1A, 2A, 3A, 4A, 5A, 6A, and 7A require an additional hole to attach lower curb transition. Guardrail bolts 3/8" diameter long and recessed nuts shall be used for attachments, length as required.
The Lower Curb Transition located on posts 1A through 7A shall be secured with 3/8" carriage bolts, length as required.
Thrie Beam Terminal Connector shall be 10 gage steel. Thrie Beam and Transition Beam shall be 12 gage steel.
Refer to VDOT Road and Bridge Standards, Section 500, for all details not shown. When railing cannot be terminated as per the VDOT Road and Bridge Standards, contact the Location and Design Special Design Section to obtain recommendations.

Sealed and Signed by:
Julius F.J. Volgyi Jr.,
Lic. No. 010487
On the date of
August 30, 2013

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER

NOTE:

THE NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD HIGHWAY/BRIDGE PLANS DO NOT INCLUDE A TIMBER BRIDGE RAIL SYSTEM. THIS TRANSITION RAILING SYSTEM IS RATED FOR TEST LEVEL 4 SAFETY PERFORMANCE CRITERIA IN ACCORDANCE WITH NATIONAL COOPERATIVE HIGHWAY RESEARCH BOARD (NCRP) REPORT 350: RECOMMENDED PROCEDURES FOR THE SAFETY AND PERFORMANCE EVALUATION OF HIGHWAY FEATURES. REFER TO TRANSPORTATION RESEARCH RECORD 1696, PAPER No. 580110 FOR PROPOSED RAILING PERFORMANCE CRITERIA.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION		STRUCTURE AND BRIDGE DIVISION	
SBD01d RAILING THRIE BEAM TRANSITION DETAILS			
No.	Description	Date	Plan No. / Sheet No.
Revisions			BRSBD-3

NOT TO SCALE
Scale: 1/2" = 1'-0" unless otherwise noted.

APPD	DATE
REVISIONS	

PROJECT NO. 20837D	DESIGNED BY: W.NUHN
CAD COORD: MLAPIERRE	CHECKED BY: W.NUHN
CAD: MLAPIERRE	DATE: DECEMBER 2023
APPROVED BY: J.GALLANT	DATE: DECEMBER 2023
SUBMISSION: CONTRACT DOCUMENTS	



WRIGHT-PIERCE
603.430.3728 | www.wright-pierce.com
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TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
(081/046)
BRIDGE REPAIR
RAIL DETAILS III
DRAWING C-11

TEMPORARY TRAFFIC CONTROL

1. THE PROJECT IS INTENDED TO BE COMPLETED UNDER ROAD CLOSURE AND DETOUR. THE DETOUR PLAN SHOWN IS CONCEPTUAL AND SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION (MUTCD) BY A NH LICENSED PROFESSIONAL ENGINEER FOR REVIEW AND ACCEPTANCE BY THE TOWN AND ENGINEER. NO WORK SHALL COMMENCE WITHOUT WRITTEN ACCEPTANCE OF THE PLAN, INSTALLATION OF THE REQUIRED TRAFFIC CONTROL MEASURES AND ACCEPTANCE BY THE TOWN/ENGINEER.
3. ACCESS TO ABUTTERS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE ALL STREET CLOSINGS AND/OR DETOURS WITH THE TOWN OF EXETER POLICE (603.772.1212), FIRE (603.773.6131) DEPARTMENTS, AND ABUTTERS A MINIMUM OF 48 HOURS IN ADVANCE.
4. EXISTING SIGNS IMPACTED/DAMAGED BY THIS PROJECT AND NOT SCHEDULED FOR REPLACEMENT SHALL BE REPLACED IN ACCORDANCE WITH MUTCD AT THE CONTRACTOR'S EXPENSE.
5. PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION OR OBTSCURED AS PART OF THE TRAFFIC CONTROL PLAN WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER IN ACCORDANCE WITH MUTCD.
6. ALL WORK REQUIRED FOR IMPLEMENTING THE DETOUR SHALL BE MEASURED FOR PAYMENT UNDER ITEM 619.1, MAINTENANCE OF TRAFFIC. ITEMS SUBSIDIARY TO THIS ITEM INCLUDE BUT ARE NOT LIMITED TO TEMPORARY TRAFFIC SIGNALS, PORTABLE CHANGEABLE MESSAGE SIGNS, ENGINEERED DETOUR PLANS, POLICE DETAILS, PORTABLE CONCRETE BARRIERS, ITEMS AS LISTED IN THE NHDOT STANDARD SPECIFICATIONS, AND ALL OTHER INCIDENTALS REQUIRED TO FINISH THE WORK. REFER TO SPECIFICATION SECTION 01050 AND 01570 FOR MORE DETAIL.
7. ALL OTHER TEMPORARY TRAFFIC CONTROL PLANS USED SHALL BE IN ACCORDANCE WITH NHDOT STANDARD PLANS FOR WORK ZONE TRAFFIC CONTROL.

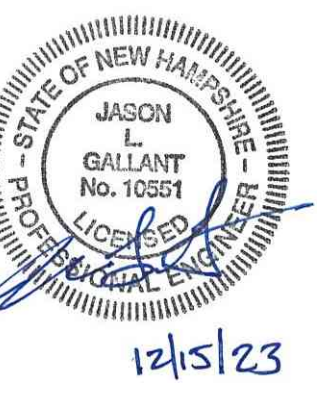


DETOUR PLAN
SCALE: 1"=500'



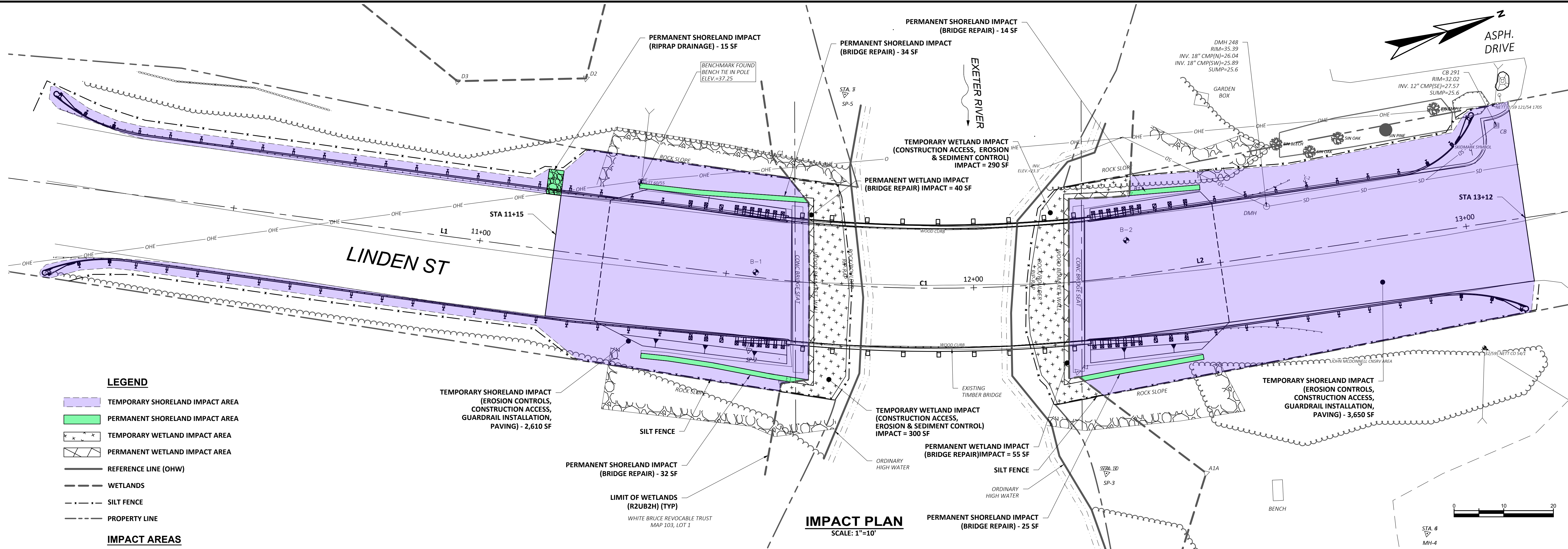
NO	REVISIONS	APPD	DATE

PROJECT NO: 20837D	DESIGNED: W.NUHN
CAD COORD: M.LAPIERRE	CAD: M.LAPIERRE
CHECKED: W.NUHN	DATE: DECEMBER 2023
APPROVED: J.GALLANT	DATE: DECEMBER 2023
SUBMISSION: CONTRACT DOCUMENTS	



WRIGHT-PIERCE
 603.430.3728 | www.wright-pierce.com
 230 COMMERCE WAY, SUITE 302, PORTSMOUTH, NH 03801

TOWN OF EXETER, NEW HAMPSHIRE
 LINDEN STREET OVER EXETER RIVER
 (081/046)
 BRIDGE REPAIR
 DETOUR PLAN



LEGEND

- TEMPORARY SHORELAND IMPACT AREA
- PERMANENT SHORELAND IMPACT AREA
- TEMPORARY WETLAND IMPACT AREA
- PERMANENT WETLAND IMPACT AREA
- REFERENCE LINE (OHV)
- WETLANDS
- SILT FENCE
- PROPERTY LINE

IMPACT AREAS

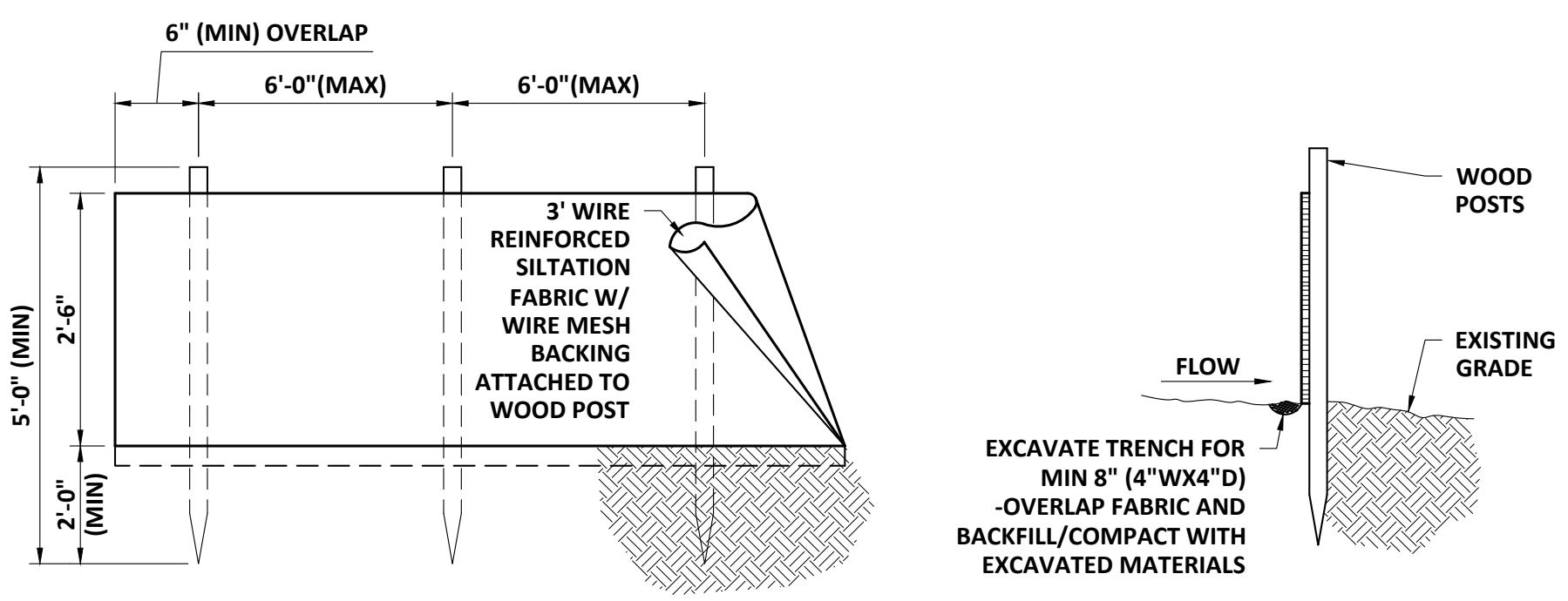
- PROPOSED TEMPORARY WETLAND IMPACT AREA = 590 SQ FT
- PROPOSED PERMANENT WETLAND IMPACT AREA = 95 SQ FT
- PROPOSED TEMPORARY SHORELAND IMPACT AREA = 6,260 SQ FT
- PROPOSED PERMANENT SHORELAND IMPACT AREA = 120 SQ FT

GENERAL NOTES

1. PURPOSE OF PLAN: TO DEPICT THE PROPOSED REPAIR OF THE LINDEN STREET BRIDGE OVER THE EXETER RIVER, IN EXETER, NH, AND THE PROPOSED WETLANDS IMPACTS ANTICIPATED DURING REPAIR.
2. EXISTING CONDITION INFORMATION TAKEN FROM THE "EXISTING CONDITIONS SURVEY, LINDEN STREET BRIDGE OVER THE EXETER RIVER" PREPARED BY GM2 ASSOCIATES, INC. DATED AUGUST 23, 2023.
3. THE WETLAND BOUNDARIES WERE DELINEATED BY CHRISTOPHER ALBERT, CERTIFIED WETLAND SCIENTIST, OF CSA ENVIRONMENTAL CONSULTANTS, LLC OF NOTTINGHAM, NH.
4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL TEMPORARY EROSION CONTROL PRIOR TO IMPLEMENTING THE WORK. IN ACCORDANCE WITH NHDOT SPECIFICATIONS AND NHDES PERMIT REQUIREMENTS, ALL METHODS TO BE INSPECTED DAILY AND MAINTAINED THROUGHOUT CONSTRUCTION UNTIL THE BRIDGE IS REPAIRS AND ALL CONSTRUCTION AND EMBANKMENTS HAVE BEEN STABILIZED.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REGULAR FLOW WITHIN THE RIVER AT ALL TIMES AND PERFORM THE WORK DURING LOW FLOW PERIODS.

EROSION CONTROL

1. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLAN AND AS DIRECTED BY THE ENGINEER PRIOR TO CONSTRUCTION.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CLEANED, REPLACED, AND AUGMENTED AS NECESSARY TO PREVENT SEDIMENTATION BEYOND PROJECT LIMITS THROUGHOUT THE PROJECT DURATION.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AFTER EACH RAIN EVENT.
4. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED AND APPROVED BY THE ENGINEER.



- NOTES:**
1. MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHALL BE 100 FEET
 2. MAXIMUM SLOPE ABOVE FENCE SHALL BE 2H TO 1V

SILT FENCE INSTALLATION DETAIL
SCALE: "NTS"

NO	REVISIONS	DATE

PROJECT NO: 208370	DESIGNED: W/NUJOM	CAD COORD: M/LAPIERRE	CHECKED: W/NUJOM	DATE: DECEMBER 2023
			APPROVED: J. GALLANT	DATE: DECEMBER 2023
				SUBMISSION: PERMITTING

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TOWN OF EXETER, NEW HAMPSHIRE
LINDEN STREET OVER EXETER RIVER
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BRIDGE REPAIR

EROSION CONTROL AND IMPACT PLAN