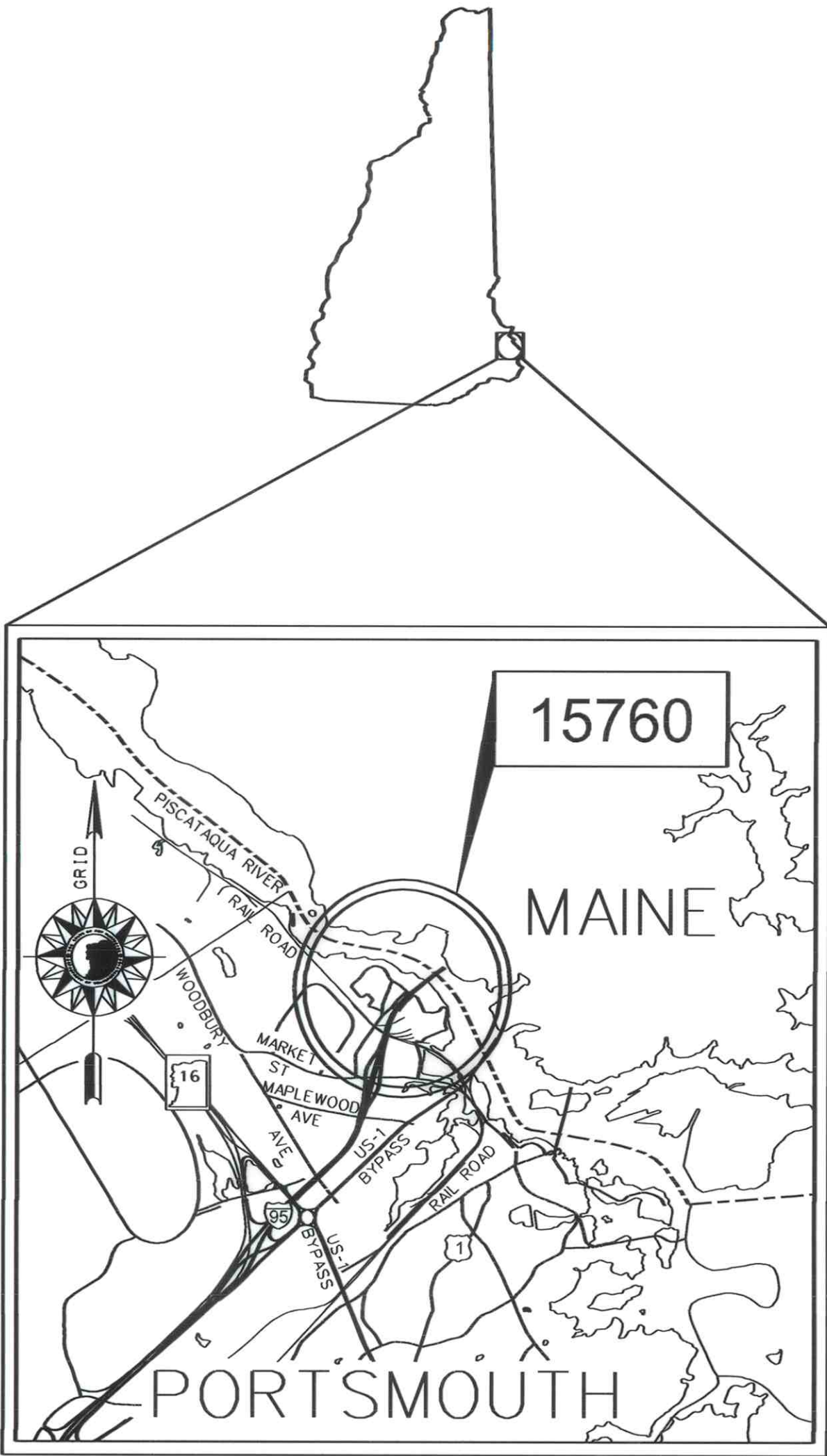


STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS

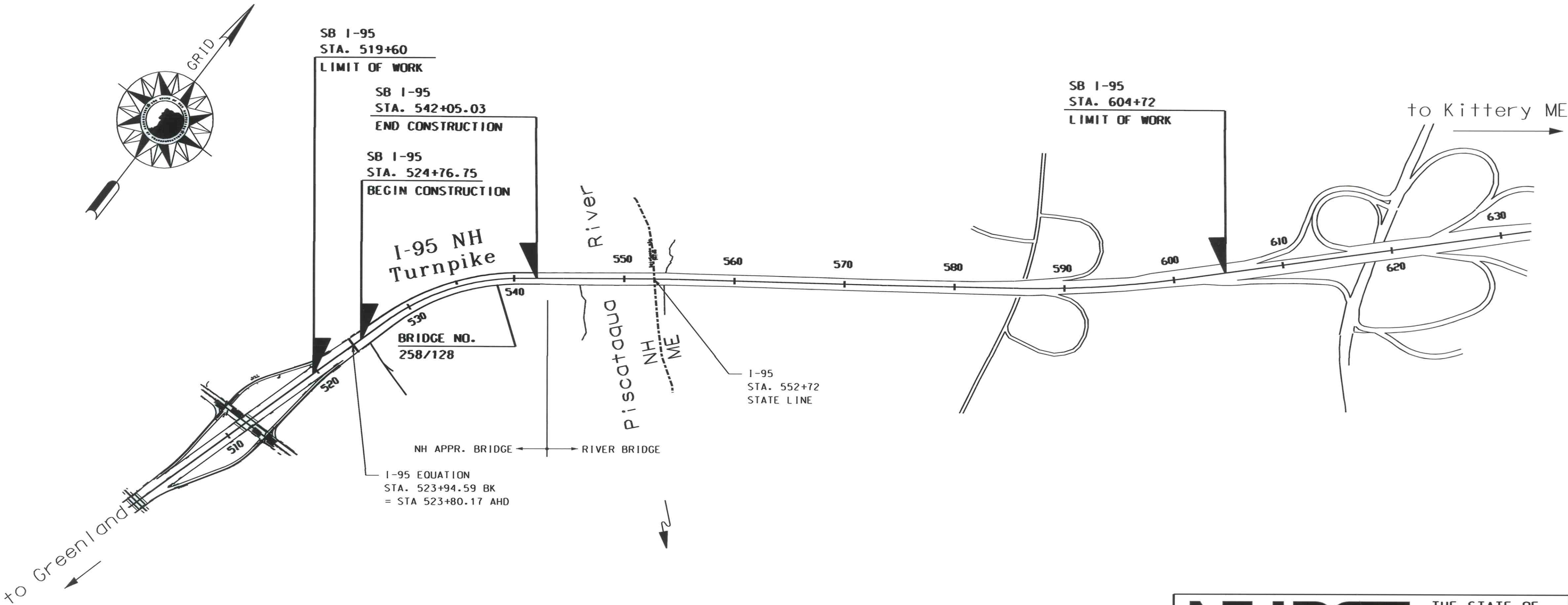
DESIGN DATA	
AVERAGE DAILY TRAFFIC 20 10	73,000
AVERAGE DAILY TRAFFIC 20 XX	N/A
PERCENT OF TRUCKS	N/A
DESIGN SPEED	70 MPH
LENGTH OF PROJECT, FT.	1728

N.H PROJECT NO. 15760

**ATLANTIC HEIGHTS, I-95 HIGH
LEVEL BRIDGE SOUND WALL**



LOCATION MAP



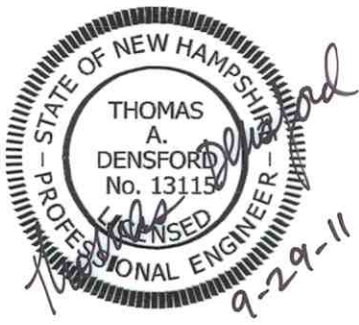
AS-BUILT PLANS

DATE 10 / 22 / 2013

CITY OF PORTSMOUTH
COUNTY OF ROCKINGHAM

SCALE: 1" = 600'

ATLANTIC HEIGHTS, I-95 HIGH LEVEL
BRIDGE SOUND WALL PLANS PREPARED BY:
FAY, SPOFFORD & THORNDIKE, LLC
ENGINEERS - PLANNERS - SCIENTISTS
288 SOUTH RIVER ROAD, BUILDING C, BEDFORD, NH 03110
TEL (603) 669-2000 FAX (603) 668-2670



NHDOT THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION			
RECOMMENDED FOR APPROVAL:		9/30/11	
DIRECTOR OF PROJECT DEVELOPMENT		DATE	
MUNICIPAL HIGHWAYS ENGINEER		DATE	
BUREAU OF PLANNING AND COMMUNITY ASSISTANCE		DATE	
APPROVED: 9/30/11		DATE	
ASSISTANT COMMISSIONER AND CHIEF ENGINEER		DATE	
U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION			
APPROVED:			
DIVISION ADMINISTRATOR			
DATE			
FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
	15760	1	43

DRAWN BY: FLC
CHECKED BY: TD
DATE 08/11
DATE 08/11

GENERAL NOTES

INDEX OF SHEETS

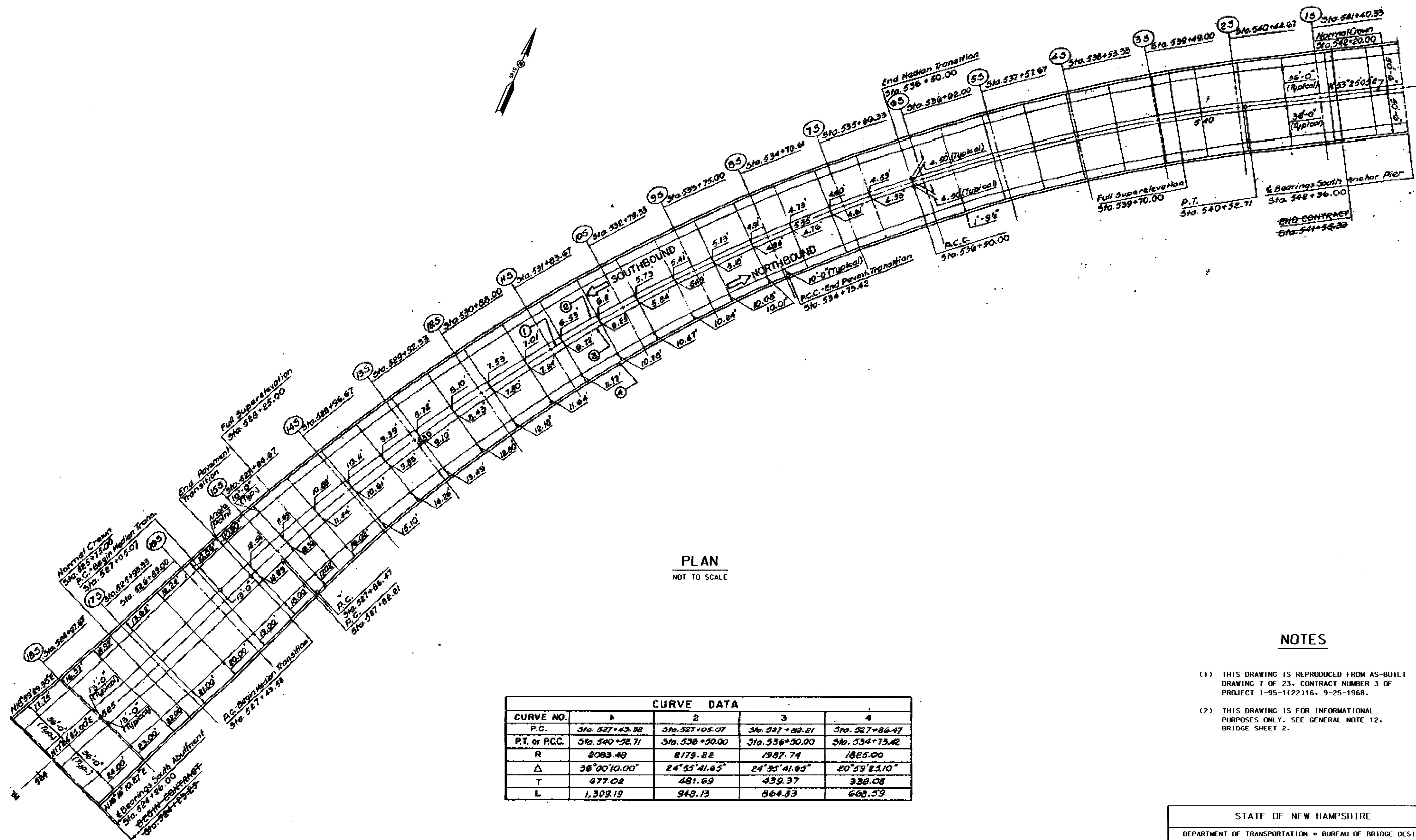
SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	INDEX OF SHEETS AND GENERAL NOTES
3	DECK GEOMETRY
4	TYPICAL DECK SECTIONS
5	TRAFFIC SIGN PLAN
BRIDGE PLANS	
6-38	BRIDGE NUMBER 258/128
TRAFFIC CONTROL PLANS	
39	TRAFFIC CONTROL PLAN - 2-LANE SETUP
40	TRAFFIC CONTROL PLAN - 3-LANE SETUP
41	TRAFFIC CONTROL PLAN - SURFACE ROAD CLOSURE
42	TRAFFIC CONTROL PLAN - CONSTRUCTION SIGN SUMMARY
43	PORTABLE CONCRETE BARRIER

- ① FOR STANDARD PLANS. SEE "STANDARD PLANS FOR ROAD CONSTRUCTION" DATED 2010 (A BOUND BOOK).
- ② HIGH TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED THROUGHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS AND RUNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN ON REGULAR POLES. THE CONTRACTOR IS ADVISED THAT EXTREME CAUTION WILL BE REQUIRED IN THE OPERATION OF EQUIPMENT. ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.
- ③ REMOVE TOPSOIL FOR ITS TOTAL DEPTH WITHIN THE LIMITS OF THE SLOPE LINES. UNLESS OTHERWISE DIRECTED, STOCKPILE TOPSOIL AND USE IT ON THIS PROJECT AS NEEDED UNDER SECTION 641 - LOAM AND/OR SECTION 647 - HUMUS.
- ④ REMOVAL OF EXISTING CONCRETE PAVEMENT WILL BE PAID UNDER ITEM 203.2 - ROCK EXCAVATION. THE BITUMINOUS PAVEMENT ABOVE THE CONCRETE WILL NOT BE PAID UNDER ITEM 203.2.
- ⑤ MODIFY SUPERELEVATION ON EXISTING CURVES BY THE USE OF A LEVELING COURSE TO THE RATES INDICATED ON THE PLANS OR AS ORDERED.
- ⑥ EXISTING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND DETERMINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL BE RESET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS MARKERS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF THE CONTRACT.
- ⑦ NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
- ⑧ PERFORM ALL WORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER.
- ⑨ REMOVE UNPROTECTED PROJECT MARKERS (SUBSIDIARY).
- ⑩ SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY SDR AND THE FIELD NOTES CAN BE FOUND IN THE FIELD BOOK(S) -----". COORDINATES ARE NEW HAMPSHIRE STATE PLANE COORDINATES OF NAD83, 1986 ADJUSTMENT AND THE BEARINGS ARE GRID. ELEVATIONS ARE REFERENCED TO NGVD 1929.
- ⑪ QUANTITIES FOR EMBANKMENT AND EXCAVATION FOR SLOPE ROUNDINGS AS SHOWN ON THE TYPICALS HAVE NOT BEEN CALCULATED AND ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, AND ARE CONSIDERED SUBSIDIARY TO THE APPROPRIATE 203 ITEMS.
- ⑫ BASIS OF STATIONING AND BASIS OF BEARING SHOWN ON THE CONTRACT PLANS WERE OBTAINED FROM THE ORIGINAL CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL VERIFY THE INFORMATION SHOWN AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION AND CONSTRUCTION.

THE FOLLOWING GENERAL NOTES WILL BE USED ON THIS PROJECT:											
①	②				⑥	⑦	⑧	⑨			⑫

STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
INDEX OF SHEETS AND GENERAL NOTES				
REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
15760index.sheet		15760	2	43

S/R PROCESSED F/C		DATE	REVISIONS AFTER PROPOSAL				
NEW DESIGN	-	DATE	8-11	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	TO	DATE	8-11				
AS BUILT DETAILS		DATE					



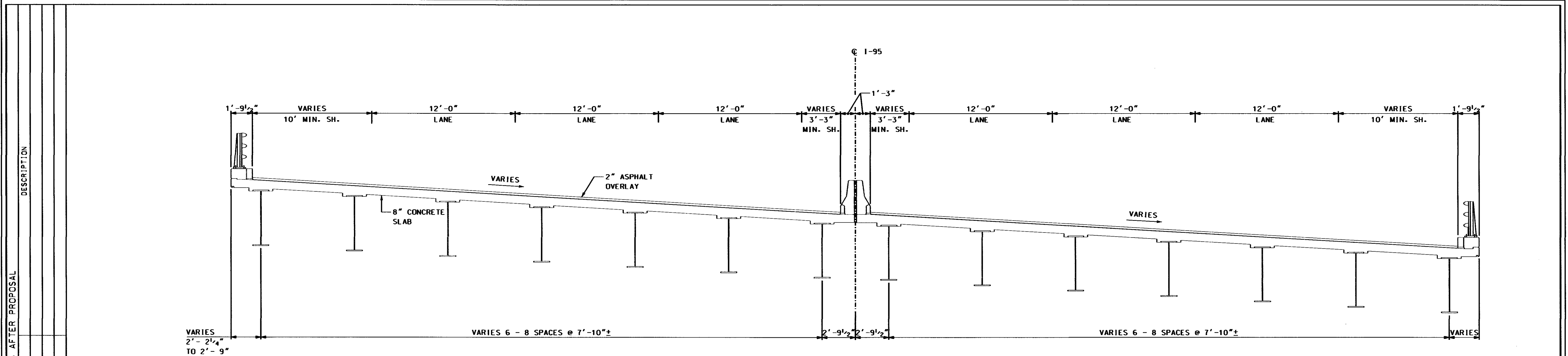
CURVE DATA				
CURVE NO.	1	2	3	4
P.C.	Sta. 527+43.58	Sta. 527+05.07	Sta. 527+82.21	Sta. 527+86.47
P.T. or P.C.C.	Sta. 540+28.71	Sta. 538+50.00	Sta. 536+50.00	Sta. 534+73.42
R	2083.48	2179.22	1987.74	1825.00
Δ	38°00'10.00"	24°53'41.65"	24°30'41.65"	20°59'23.10"
T	477.02	481.69	439.37	338.08
L	1,309.19	948.13	864.83	663.59

NOTES

- (1) THIS DRAWING IS REPRODUCED FROM AS-BUILT
DRAWING 7 OF 23. CONTRACT NUMBER 3 OF
PROJECT 1-95-1(22)116, 9-25-1968.
- (2) THIS DRAWING IS FOR INFORMATIONAL
PURPOSES ONLY. SEE GENERAL NOTE 12.
BRIDGE SHEET 2.

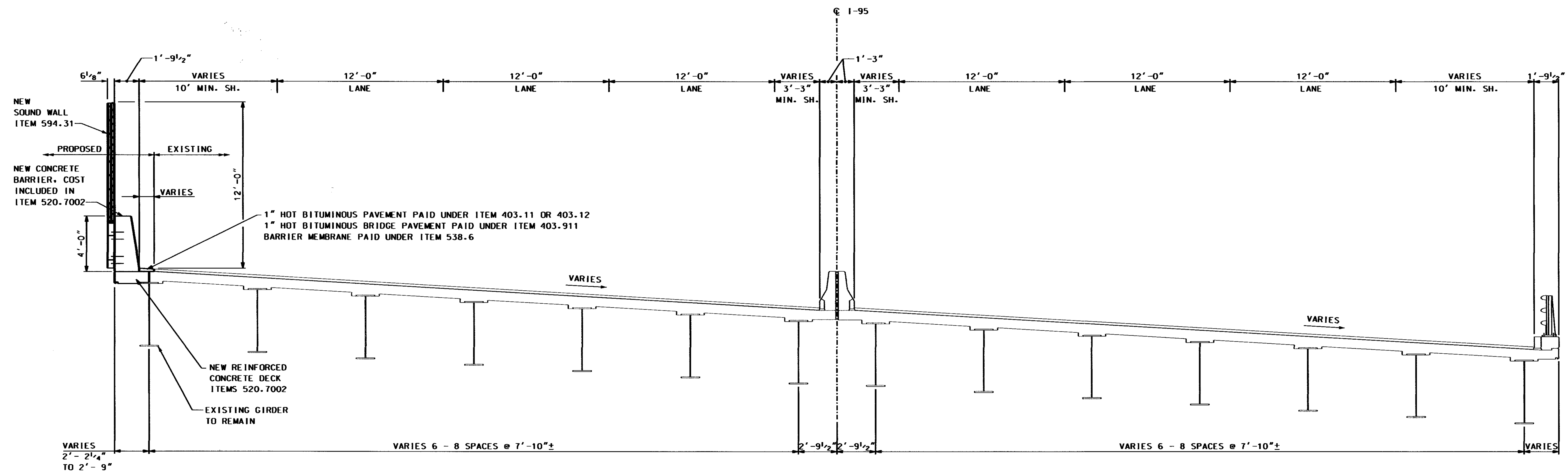
STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
<i>DECK GEOMETRY</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
15760asb11_Plan258-128	15760	3	43

SDR PROCESSED		FLC		DATE		8-11		DATE		8-11		DATE		8-11		DATE		AS BUILT DETAILS	
NEW DESIGN		TO		DATE		8-11		DATE		8-11		DATE		8-11		DATE			
SHEET CHECKED		PJM		DATE		8-11		DATE		8-11		DATE		8-11		DATE			
AS BUILT DETAILS				DATE				DATE				DATE				DATE			



EXISTING BRIDGE TYPICAL SECTION

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

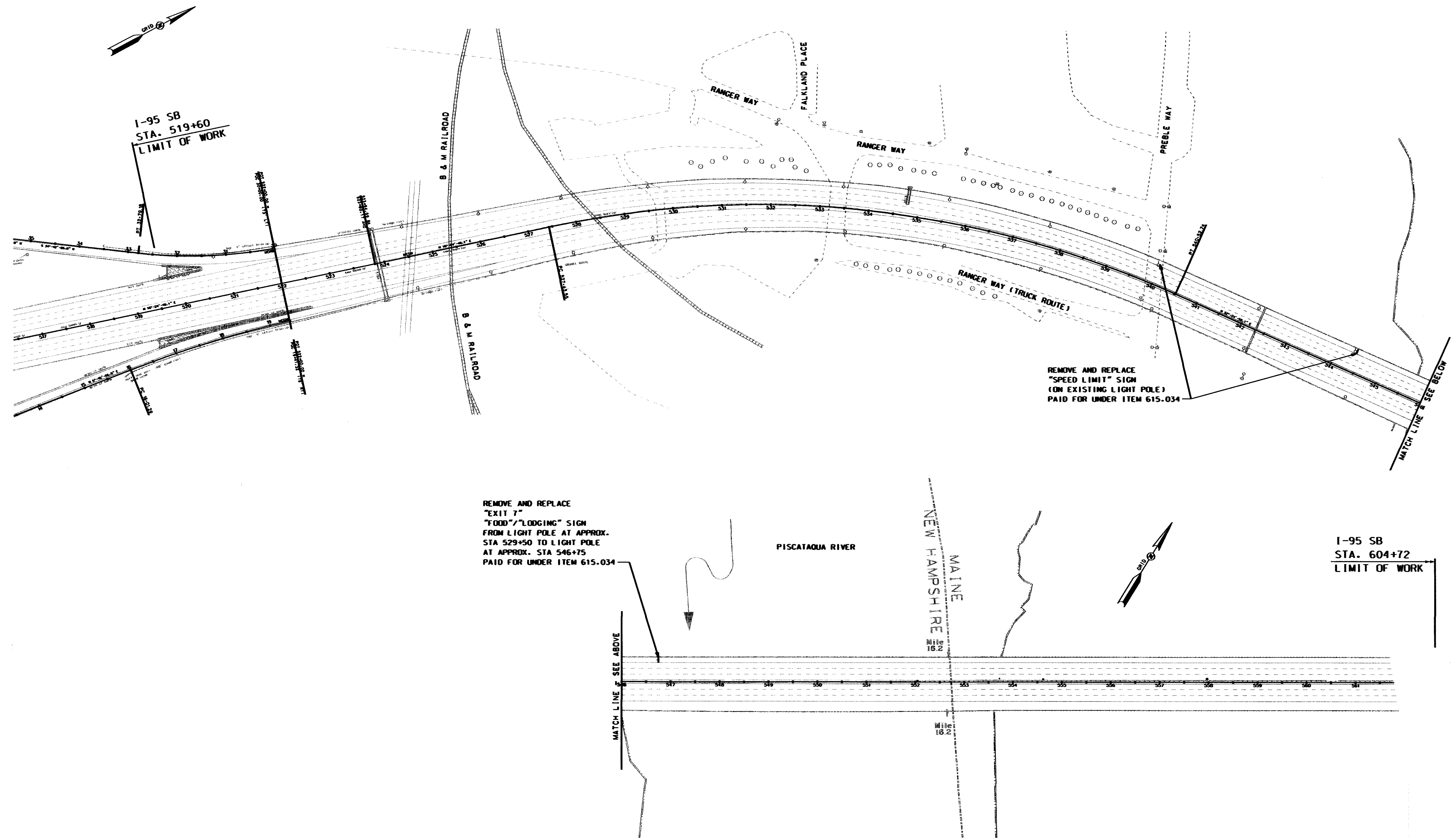


PROPOSED BRIDGE TYPICAL SECTION

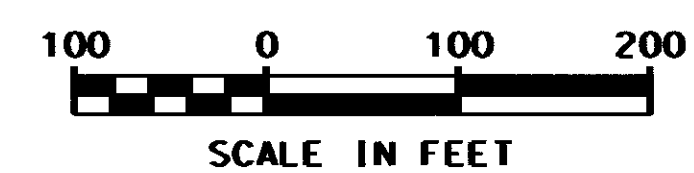
SCALE: 1/4" = 1'-0"

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
TYPICAL DECK SECTIONS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
15760DeckDet5258.128	15760	4	43

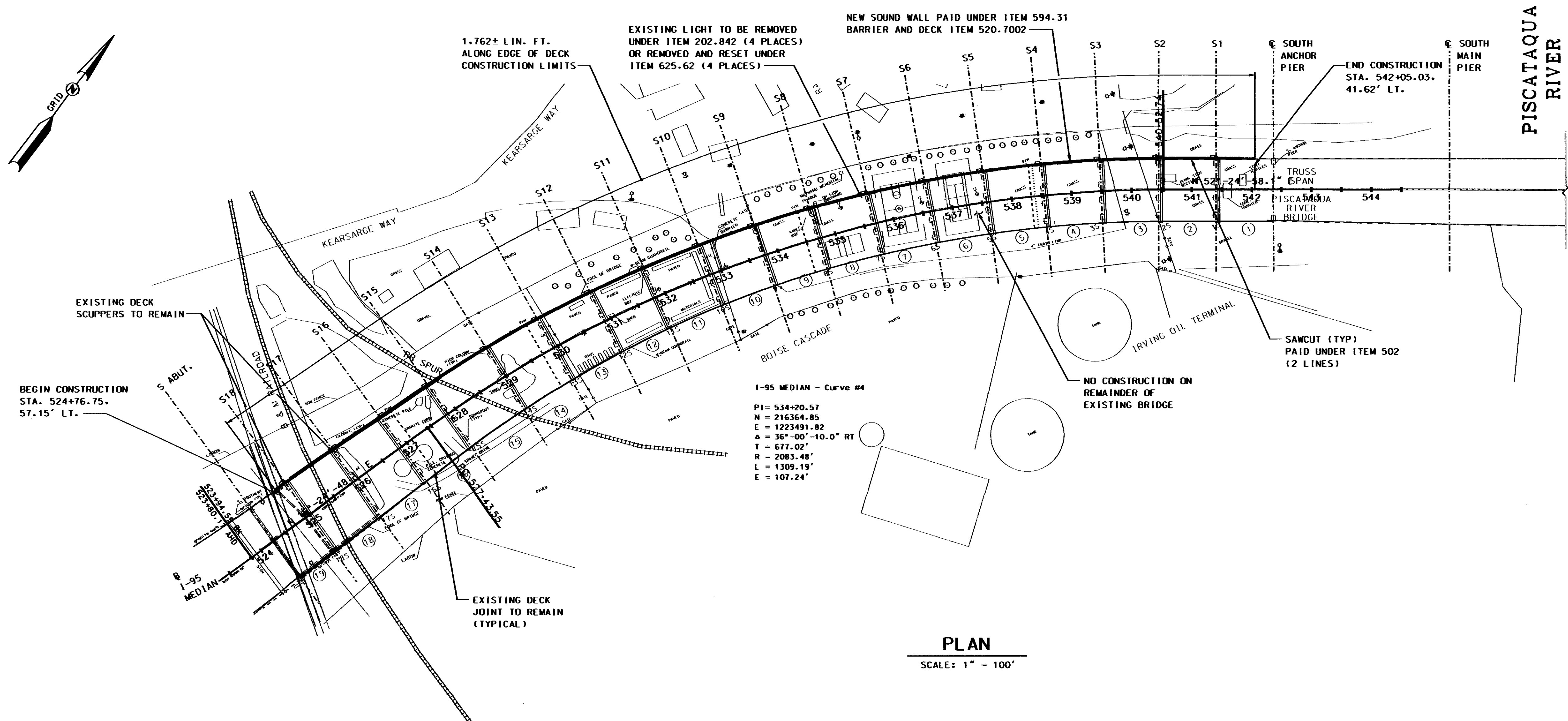
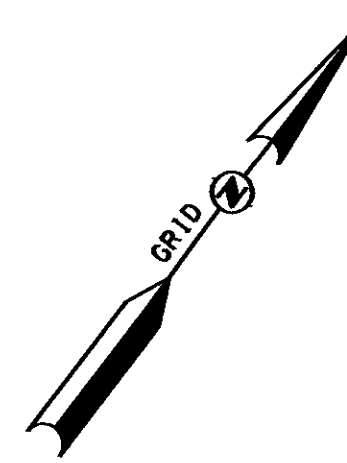
SDR PROCESSED SB		DATE	REVIEWS AFTER PROPOSAL				
NEW DESIGN	TD	DATE <td>8/11</td> <td>NUMBER</td> <td>DATE</td> <td>STATION</td> <td>DESCRIPTION</td>	8/11	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED		PMM	DATE <td>8/11</td> <td></td> <td></td> <td></td>	8/11			
AS BUILT DETAILS		DATE					



NOTES:
1. ALL EXISTING SIGNS ARE TO REMAIN IN PLACE. UNLESS OTHERWISE NOTED ON THE PLAN.

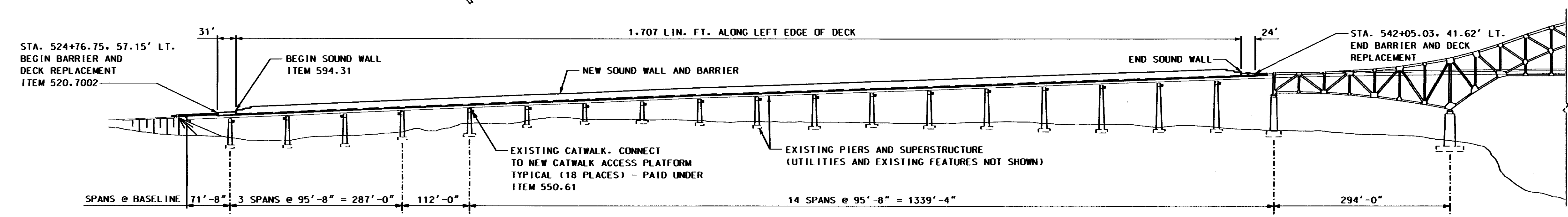


STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
<i>TRAFFIC SIGN PLAN</i>			
DDM	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
x1_15760PMP	15760	5	43



PLAN

SCALE: 1" = 100'



ELEVATION

SCALE: 1" = 100'

INDEX OF BRIDGE SHEETS

1	GENERAL PLAN, ELEVATION, AND INDEX	11	PLAN - PART 5	21	PIER CATWALK ACCESS DETAILS - PART 1	31	LIGHTING PLAN - PART 2
2	GENERAL NOTES AND BRIDGE QUANTITIES	12	PLAN - PART 6	22	PIER CATWALK ACCESS DETAILS - PART 2	32	BRIDGE LIGHTING DETAILS
3	REMOVAL PLAN AND ELEVATION	13	PLAN - PART 7	23	REINFORCEMENT PLAN - PART 1	33	LIGHTING CONDUIT DETAILS
4	RECOMMENDED CONSTRUCTION SEQUENCE	14	SOUND WALL DETAILS - PART 1	24	REINFORCEMENT PLAN - PART 2		
5	STAGED CONSTRUCTION SECTIONS - PART 1	15	SOUND WALL DETAILS - PART 2	25	REINFORCEMENT PLAN - PART 3		
6	STAGED CONSTRUCTION SECTIONS - PART 2	16	SOUND WALL DETAILS - PART 3	26	REINFORCEMENT PLAN - PART 4		
7	PLAN - PART 1	17	SUPERSTRUCTURE DETAILS	27	REINFORCEMENT SCHEDULE		
8	PLAN - PART 2	18	SOUNDWALL POST ANCHOR DETAILS	28	BRIDGE RAILING DETAILS		
9	PLAN - PART 3	19	LIGHT SUPPORT DETAILS	29	SIGN SUPPORT DETAILS		
10	PLAN - PART 4	20	BARRIER EXPANSION JOINT DETAILS	30	LIGHTING PLAN - PART 1		

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760IND258_128	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
GENERAL PLAN, ELEVATION AND INDEX								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	1 OF 33	
			DESIGNED	TD	08/11	CHECKED	PMM	08/11	FILE NUMBER 118-1-1
			DRAWN	FLC	08/11	CHECKED	TD	08/11	
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	
			ISSUE DATE		FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
			REV. DATE					6	43

SUMMARY OF QUANTITIES							
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.842	REMOVAL OF BRIDGE MOUNTED LIGHT POLE	4	U	621.12	RETROREFLECTIVE MEDIAN BARRIER DELINEATOR (YELLOW)	147	EA
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	13	TON	624.1	RAILROAD PROTECTION - FLAGGING SERVICE	320	HR
403.12	HOT BITUMINOUS PAVEMENT, HAND METHOD	1	TON	625.62	RESET/RELOCATE LIGHT POLES	4	EA
403.6	PAVEMENT JOINT ADHESIVE	3524	LF	692	MOBILIZATION	1	U
403.911	HOT BITUMINOUS BRIDGE PAVEMENT, 1" BASE COURSE (F)	13	TON	698.12	FIELD OFFICE TYPE B	6	MON
502	REMOVAL OF EXISTING BRIDGE STRUCTURE	1	U	1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	-	\$
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	533	CY	1008.8	ALTERATIONS AND ADDITIONS AS NEEDED - WINTER MAINTENANCE	-	\$
534.3	WATER REPELLENT (SILANE/ SILOXANE)	116	GAL	1008.11	ALTERATIONS AND ADDITIONS AS NEEDED - UNANTICIPATED WORK	-	\$
538.6	BARRIER MEMBRANE, HEAT WELDED - MACHINE METHOD (F)	235	SY	1010.15	FUEL ADJUSTMENT	-	\$
544.2	REINFORCING STEEL, EPOXY COATED (F)	78173	LB	1010.41	QUALITY CONTROL QUALITY ASSURANCE (QC/QA) FOR CONCRETE	-	\$
550.61	CATWALK ACCESS FRAMING	1	U				
563.81	REHABILITATION OF BRIDGE RAIL (F)	10	LF				
564.1	BRIDGE LIGHTING SYSTEM	1	U				
594.31	SOUND ABATEMENT WALL (BRIDGE MOUNTED)	14096	SF				
606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	2000	LF				
606.9513	TEMP. IMPACT ATTENUATION DEVICE (REDIRECTIVE), TEST LEVEL 3	1	U				
615.034	RELOCATING TRAFFIC SIGN, TYPE C	3	U				
615.04	TRAFFIC SIGN TYPE AA (F)	200	SF				
615.20001	CANTILEVER TRAFFIC SIGN STRUCTURE	1	U				
615.20301	REMOVING CANTILEVER TRAFFIC SIGN STRUCTURE	1	U				
618.61	UNIFORMED OFFICERS WITH VEHICLE	-	\$				
618.7	FLAGGERS	1000	HR				
619.1	MAINTENANCE OF TRAFFIC	1	U				
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	2	U				
619.63	TRUCK-MOUNTED IMPACT ATTENUATOR, TEST LEVEL 3	1	U				

DESIGN LOADS, SPECIFICATIONS, AND MATERIALS

DESIGN METHOD:	LOAD AND RESISTANCE FACTOR DESIGN (LRFD).
DESIGN LOAD:	BRIDGE: HL-93 LOADING CATWALK AND ACCESS: 60 PSF OR 500# LOAD
DESIGN WIND SPEED:	141 MPH (V_{DZ}), $P_D = 80$ PSF
SPECIFICATIONS:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 5TH EDITION, 2010 WITH INTERIMS. NHDOT 2010 STANDARD SPECIFICATIONS AS AMENDED. CONCRETE ANCHORS: ACI 318, APP. D SOUND WALL: AASHTO GUIDE SPECIFICATIONS FOR STANDARD DESIGN OF SOUND BARRIERS, 1989, W/1992 AND 2002 INTERIMS. STRUCTURAL STEEL: AASHTO M 270 (ASTM A 709) GRADE 50, GALVANIZED. STAINLESS STEEL: ASTM A-240 GRADE 316 REINFORCING STEEL: AASHTO M 31 (ASTM A 615) GRADE 60. ALL REINFORCING STEEL SHALL BE EPOXY COATED. CONCRETE: DECK SLAB AND CONCRETE BARRIER - 4,000 PSI ITEM 520.7002, CONCRETE BRIDGE DECK (QC/QA) (F)

REINFORCEMENT NOTES

- ALL REINFORCEMENT FOR PROJECT SHALL BE CUT BY MECHANICAL MEANS.
- REINFORCEMENT STEEL TO BE 2 $\frac{1}{2}$ " CLEAR FROM CONCRETE SURFACE EXCEPT AS NOTED.
- MINIMUM LAP #5 BAR = 2'-0"
MINIMUM LAP #6 BAR = 2'-4"
- ANY EPOXY COATED REBARS CUT TO FIT SHALL BE TOUCHED UP WITH AN APPROVED EPOXY COATING MATERIAL. ALL COSTS SHALL BE INCLUDED IN ITEM 544.2.
- ALL REINFORCEMENT SHALL BE EPOXY COATED.

SURVEY AND VERTICAL CONTROL NOTES

- THE CONTRACTOR SHALL SET SCREED ELEVATIONS TO OBTAIN FINAL DECK TOP ELEVATIONS CONFORMING TO EXISTING DECK TOP ELEVATIONS.

GENERAL NOTES

- THE CONTRACTOR SHOULD BE AWARE THAT EXISTING STRUCTURE DIMENSIONS SHOWN ON THESE PLANS WERE TAKEN FROM ORIGINAL BRIDGE PLANS AND DO NOT NECESSARILY REPRESENT "AS BUILT" DIMENSIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF THE EXISTING STRUCTURES AND BE PREPARED TO MAKE ANY ADJUSTMENTS REQUIRED. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER, OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ADVANCING THE WORK. THE EXISTING PLANS MAY BE VIEWED AT BUREAU OF BRIDGE DESIGN, NHDOT, CONCORD NH DURING THE BIDDING PERIOD. AFTER THE CONTRACT IS AWARDED, A COMPLETE SET OF THE EXISTING PLANS WILL BE FORWARDED TO THE CONTRACTOR UPON REQUEST.
- ALL EXISTING BRONZE DISCS REPRESENTING STATE BENCHMARKS OR SURVEY TRIANGULATION POINTS MUST NOT BE DISTURBED. WHEN THE WORK CALLED FOR INVOLVES DISTURBING A BRONZE DISC, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT THE STATE TO TEMPORARILY RELOCATE THE AFFECTED MARKER.
- SEE TRAFFIC CONTROL PLANS FOR TRAFFIC REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT DEBRIS DOES NOT FALL BELOW THE EXISTING STRUCTURE. ALL COSTS SHALL BE INCLUDED IN ITEM 502 AND SHALL INCLUDE ERECTION, MAINTENANCE AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER SUCH METHODS AS APPROVED.
- NO SCAFFOLDS SHALL BE ERECTED OR OPERATIONS CONDUCTED IN THE WATERWAY OR ON THE MAIN TRUSS BRIDGE, UNLESS APPROVED BY THE CONTRACT ADMINISTRATOR.
- EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE PORTIONS OF THE EXISTING STRUCTURE THAT ARE TO REMAIN. ANY DAMAGE SHALL BE REPORTED IMMEDIATELY TO THE NHDOT BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL REVIEW SITE CONDITIONS FOR EXISTING FEATURES, DRAINAGE, UTILITIES, ETC. WHICH MAY AFFECT CONSTRUCTION AND OPERATION CONDITIONS.
- EXISTING EXPANSION JOINTS SHALL BE PROTECTED AND SUPPORTED DURING DEMOLITION OF THE DECK, AND CONSTRUCTION OPERATIONS.
- REMOVAL OF EXISTING PAVEMENT, MEMBRANE, CONCRETE BRUSH CURB, JUNCTION BOXES, NON-REUSED LIGHTS, CONDUIT, CONDUCTORS, GRANITE CURB, SALVAGE OF BRIDGE RAIL, SAW CUTTING CONCRETE, CHAIN LINK FENCE, STEEL CURB PLATES AND CONCRETE BRIDGE DECK, SHALL BE SUBSIDIARY TO ITEM 502.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN, ON THESE PLANS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE TAKEN BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL NOTIFY DIG-SAFE PRIOR TO CONSTRUCTION (1-888-DIG-SAFE).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL CONTROL THROUGHOUT THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY RESIDENTS OF ANY WORK RESTRICTING ACCESS TO ANY DRIVEWAY 24 HOURS IN ADVANCE.
- FOR STANDARD PLANS, SEE CURRENT "NHDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION."

BRIDGE LIGHTING NOTES

- FURNISHING AND INSTALLING CONDUITS, CONDUCTORS, JUNCTION BOXES, EXPANSION COUPLINGS AND FITTINGS ARE PAID UNDER ITEM 564.1, BRIDGE LIGHTING SYSTEM.
- REMAINING REFURBISHING, AND RESETTING OF EXISTING LIGHT STANDARDS SHALL BE PAID UNDER ITEM 564.1.
- ALL ELECTRICAL COMPONENTS AND CONDUCTORS IN EXISTING LIGHTS AND LUMINAIRES SHALL BE REPLACED WITH NEW COMPONENTS AND SHALL BE PAID FOR UNDER ITEM 564.1.
- NEW 250 WATT HPS LAMPS SHALL BE PROVIDED AT FOUR LOCATIONS, COST INCLUDED IN ITEM 564.1.
- NAVIGATION LIGHTING ON THE I-95 HIGH BRIDGE SHALL BE MAINTAINED AT ALL TIMES.
- REMOVAL OF LIGHTS WHICH ARE NOT REUSED SHALL BE INCLUDED IN ITEM 202.842.
- LIGHTS TO BE REFURBISHED AND RESET SHALL BE INCLUDED IN ITEM 625.62, THE EXISTING LIGHT COMPONENTS IN THE BEST CONDITION SHALL BE REUSED.

SOUND WALL NOTES

- SOUND WALL PANELS SHALL BE PULTRUDED FIBER-REINFORCED POLYMER AS MANUFACTURED BY CARSONITE ACOUSTA SHIELD OR APPROVED EQUAL.
- SOUND WALL PANELS SHALL BE INSTALLED PARALLEL TO THE ROAD SURFACE.
- CONTRACTOR SHALL FIELD CUT STANDARD SOUND WALL PANELS TO 1" LESS THAN THE CLEAR DISTANCE BETWEEN POST WEBS AND SHALL MITER BOTH ENDS PLUMB.
- CONTRACTOR SHALL FIELD CUT EXPANSION SOUND WALL PANELS AS SHOWN ON BRIDGE SHEET 15 AND SHALL MITER BOTH ENDS PLUMB.
- PANELS SHALL BE CUT WITH A CARBIDE TOOTHED SAW OR OTHER APPROVED METHOD.
- SOUND WALL POSTS SHALL BE INSTALLED PLUMB.
- HARDWARE MOUNTING HOLES IN STEEL POSTS SHALL BE PREPUNCHED OR DRILLED PRIOR TO GALVANIZING.
- ALL BOLT HARDWARE SHALL BE STAINLESS STEEL.
- COLOR OF PANELS SHALL BE MEDIUM GRAY, FEDERAL STANDARD COLOR #36270.
- ITEM 594.31, SOUND ABATEMENT WALL (BRIDGE MOUNTED), SHALL INCLUDE ALL POLYMER PANELS, STEEL POSTS, STEEL PLATES, BOLTS, ANCHOR BOLTS, MISCELLANEOUS STEEL, HURRICANE DOORS, DOOR FRAMES, DOOR HARDWARE AND LOCKS, DOOR HEAD CLOSURE AND ALL ITEMS DETAILED ON THE PLANS.
- SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL REQUIREMENTS.

SUPERSTRUCTURE NOTES

- A BRIDGE DECK POURING SEQUENCE IS PROVIDED IN THESE PLANS. THE CONTRACTOR MAY SUBMIT A REVISED DECK POURING SEQUENCE IN ACCORDANCE WITH 105.02 THAT IS SUBJECT TO THE APPROVAL OF THE BUREAU OF BRIDGE DESIGN. THE BRIDGE DECK CONCRETE SHALL REMAIN PLASTIC THROUGHOUT THE ENTIRE POURING SEQUENCE (EACH STAGE).
- THE WELDING OF ATTACHMENTS TO THE GIRDERS FOR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- AFTER PLACEMENT OF THE DECK WATERPROOFING MEMBRANE AND PRIOR TO PAVING OPERATIONS, CUT AND REMOVE THE MEMBRANE TO THE DIMENSIONS OF THE GALVANIZED MESH AT PVC DRAINS. PLACE THE MESH ON THE DECK, OVER THE PVC PIPE OPENINGS. BOND THE MESH TO THE BRIDGE DECK WITH A POURABLE ASPHALTIC SEALANT. PREVENT SEALANT FROM ENTERING PIPE OPENINGS. SET PVC DRAINS TO DISCHARGE AWAY FROM THE GIRDERS AND BRIDGE SEAT. THE COST OF FURNISHING AND INSTALLING PVC DRAINS, GALVANIZED MESH, AND ASPHALTIC SEALANT TO BE INCLUDED IN ITEM 538.6.
- RUMBLE STRIPS IN BRIDGE PAVEMENT ARE TO BE PROVIDED IN A SEPARATE NHDOT CONTRACT, AND ARE NOT INCLUDED IN THIS PROJECT.
- THE OUTSIDE FACE OF CONCRETE BARRIER SHALL BE PLACED PLUMB TO ACCEPT SOUND WALL POSTS. BARRIER OUTSIDE FACE SHALL BE GROUND SMOOTH AND PLUMB IF NECESSARY.

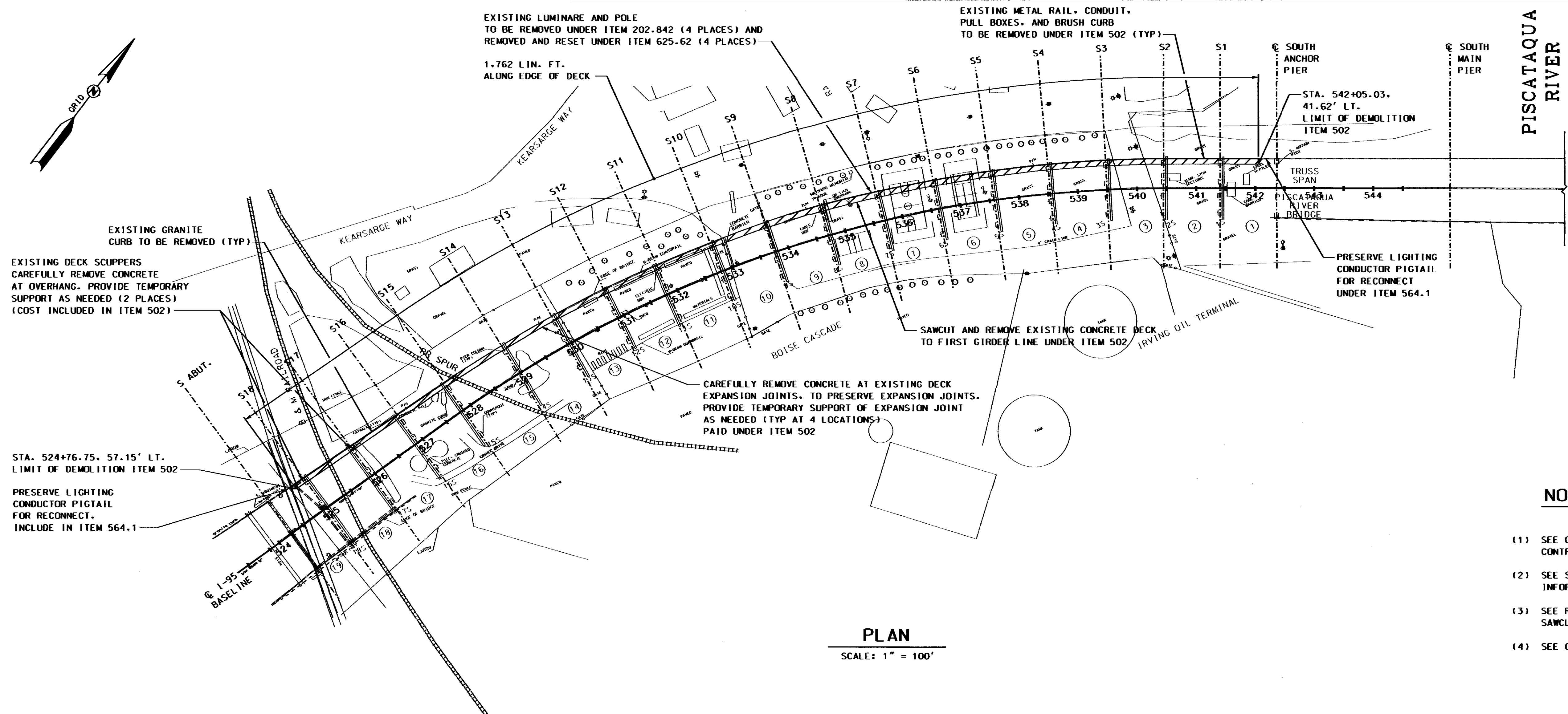
STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270, GRADE 50 (ASTM A709, GRADE 50), GALVANIZED AND SHALL BE PAID UNDER ITEMS AS NOTED ON THE PLANS.
- THE NHDOT WILL INSPECT THE SHOP FABRICATION OF THE STRUCTURAL STEEL.
- THE STRUCTURAL STEEL FABRICATOR SHALL ARRANGE FOR NON-DESTRUCTIVE TESTING OF THE WELDS. ALL COSTS TO BE INCLUDED IN ITEMS AS NOTED ON THE PLANS.
- ALL WELDING AND FABRICATION SHALL BE PERFORMED IN CONFORMANCE WITH THE AASHTO/AWS D1.5-08 BRIDGE WELDING CODE. (INCLUDING ALL REVISIONS PUBLISHED BY AASHTO AS OF THE BID OPENING DATE) AND NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL STEEL TO BE GALVANIZED, EXCEPT STAINLESS STEEL. FIELD TOUCH-UP WITH APPROVED PRODUCTS.

PIER CATWALK ACCESS NOTES

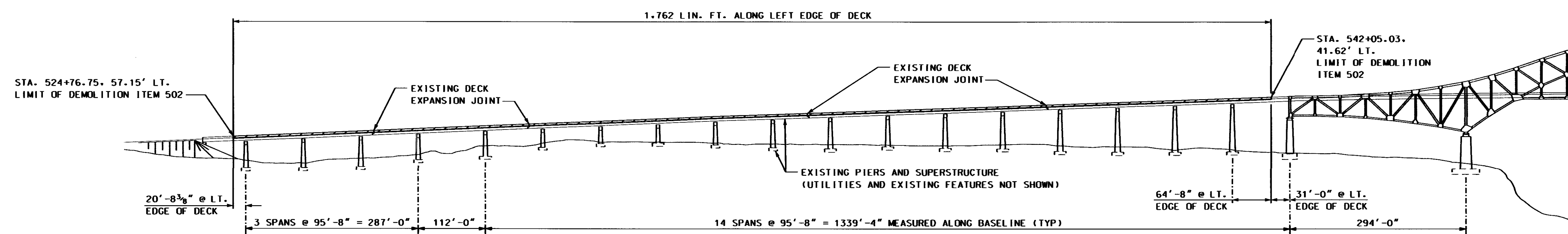
- THE PIER CATWALK ACCESS FRAMING IS A GENERAL REPRESENTATION OF THE STRUCTURES NEEDED, CATWALK PLATFORMS, RAILINGS, LADDER, CAGE, ETC. SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CURRENT EDITION INCLUDING ALL INTERIMS EXCEPT AS MODIFIED HEREIN, AND OSHA 1910 SUBPART D AND SHALL BE PAID UNDER ITEM 550.61.
- ACCESS STRUCTURES SHALL BE DESIGNED FOR THE LOADING CRITERIA CONTAINED IN THE GENERAL NOTES FOR THIS PROJECT, AND OSHA AS REFERENCED ABOVE.
- THE CONTRACTOR SHALL FURNISH THE DESIGN CALCULATIONS AND COMPLETE SHOP DRAWINGS, OR MANUFACTURER'S STANDARD SPECIFICATIONS AND DRAWINGS, OR BOTH FOR THE ACCESS STRUCTURES PROPOSED TO BE ERECTED, INCLUDING CALCULATED FORCES AT THE CONNECTIONS TO THE CONCRETE SUPPORTING STRUCTURES, FOR DOCUMENTATION IN ACCORDANCE WITH 105.02. CALCULATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE.
- THE CONTRACTOR SHALL MAKE FIELD MEASUREMENTS AND ADJUST THE FABRICATIONS TO MATCH FIELD CONDITIONS.
- TO ACCOMMODATE TEMPERATURE RELATED MOVEMENTS, DO NOT ATTACH LOWER PLATFORM TO LADDER OR UPPER PLATFORM.
- LOCATE TOP OF RUNG ADJACENT TO GRATING, FLUSH WITH GRATING ELEVATION PER OSHA REQUIREMENTS.
- WELD ALL LAPPING ANGLES WITH $\frac{1}{4}$ " MIN. FILLET WELDS, ALL-AROUND, WELD BUTTING ANGLES WITH FULL PENETRATION WELDS AND MITERED CORNERS.
- INSTALL CHEMICAL ANCHORS ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS, INCLUDING CLEANING OF DRILLED HOLES, AND TEMPERATURE REQUIREMENTS.
- REMOVAL OF EXISTING CATWALK ELEMENTS AND CONNECTION TO NEW CATWALK FRAMING SHALL BE SUBSIDIARY TO ITEM 550.61.
- ALL GRATING, STEEL ANGLE MEMBERS, BOLTS, WELDING, CONCRETE DRILLING/ANCHORS/ADHESIVE, LADDER, CAGE, CONNECTIONS, ETCETERA SHALL BE SUBSIDIARY TO ITEM 550.61.
- ALL BOLT HARDWARE SHALL BE STAINLESS STEEL.
- ALUMINUM GRATING FOR PLATFORMS SHALL BE FASTENED PER MANUFACTURER'S RECOMMENDATIONS.
- SEE STRUCTURAL STEEL NOTES FOR ADDITIONAL REQUIREMENTS.

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH	BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
GENERAL NOTES AND BRIDGE QUANTITIES								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	2 OF 33	
			DESIGNED	TD	08/11	CHECKED	PMM	08/11	FILE NUMBER 118-1-1
			DRAWN	FLC	08/11	CHECKED	TD	08/11	
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	
			ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
			REV. DATE					7	43



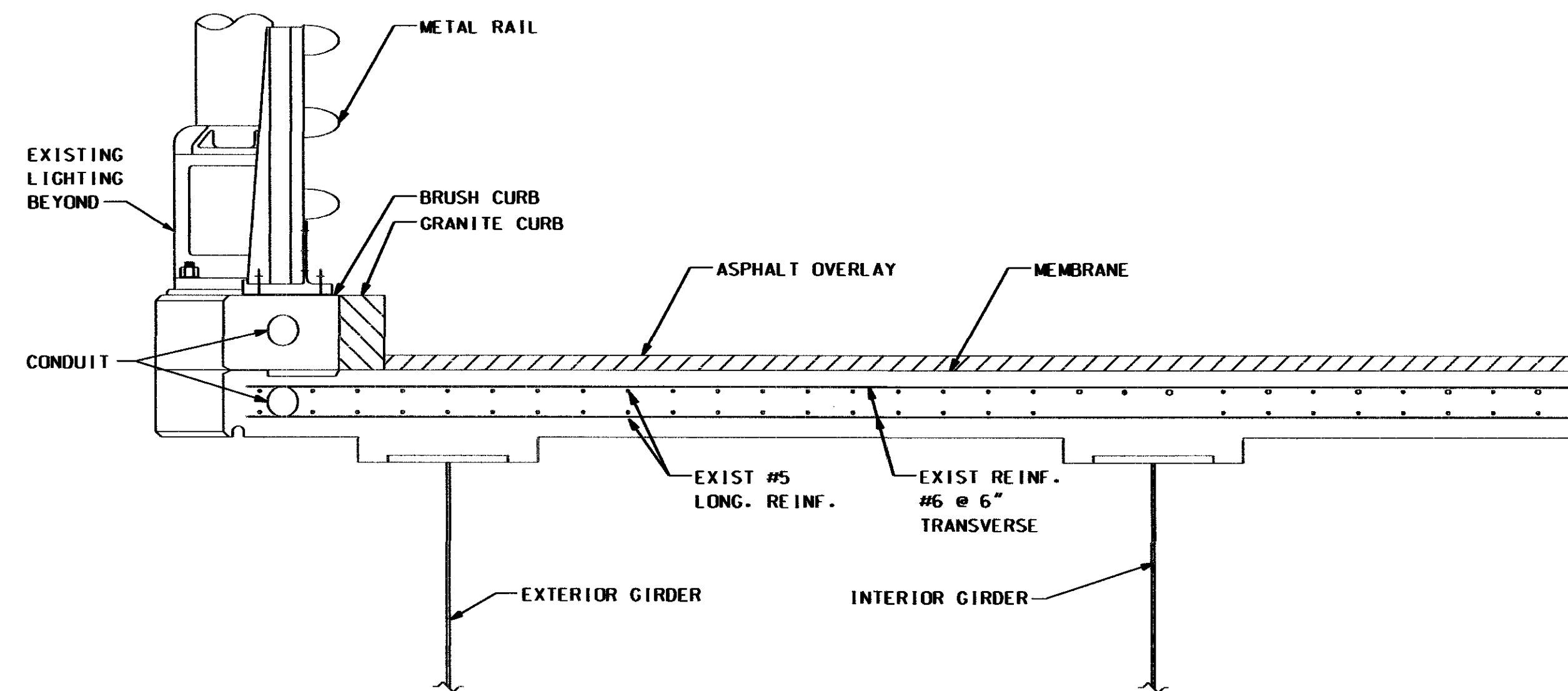
NOTES

- (1) SEE GENERAL NOTES SHEET FOR SURVEY AND VERTICAL CONTROL REQUIREMENTS TO BE PERFORMED PRIOR TO REMOVALS.
- (2) SEE STAGED CONSTRUCTION SECTIONS FOR ADDITIONAL INFORMATION.
- (3) SEE RECOMMENDED SEQUENCE ON BRIDGE SHEET 4 FOR SAWCUT AND REBAR LAP REQUIREMENTS.
- (4) SEE GENERAL NOTE 9 BRIDGE SHEET 2 FOR REMOVAL NOTE.



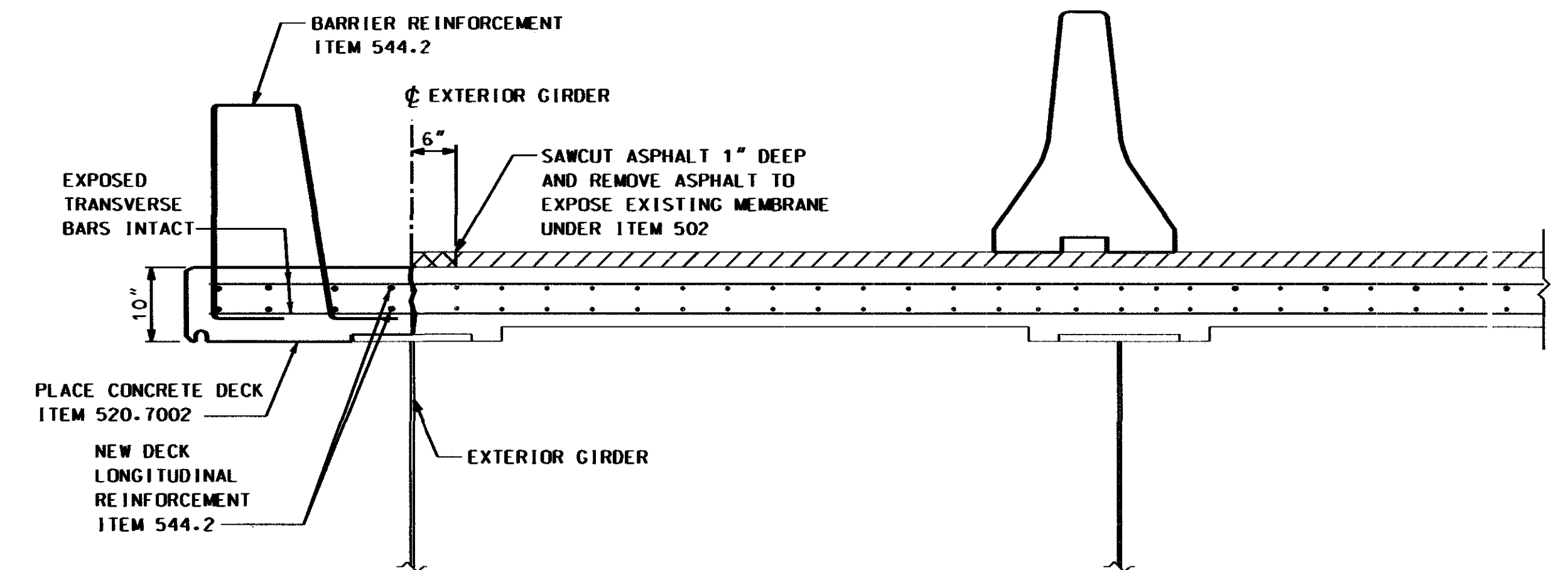
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760Demoplan258_128	AS NOTED

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
REMOVAL PLAN AND ELEVATION										BRIDGE SHEET 1	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED		TD	08/11	CHECKED		PMM	08/11
				DRAWN		FLC	08/11	CHECKED		TD	08/11
				QUANTITIES		TD	08/11	CHECKED		PMM	08/11
				ISSUE DATE				FEDERAL PROJECT NO.		SHEET NO.	
				REV. DATE						8	43
										3 OF 33	
										FILE NUMBER	
										118-1-1	
										TOTAL SHEETS	



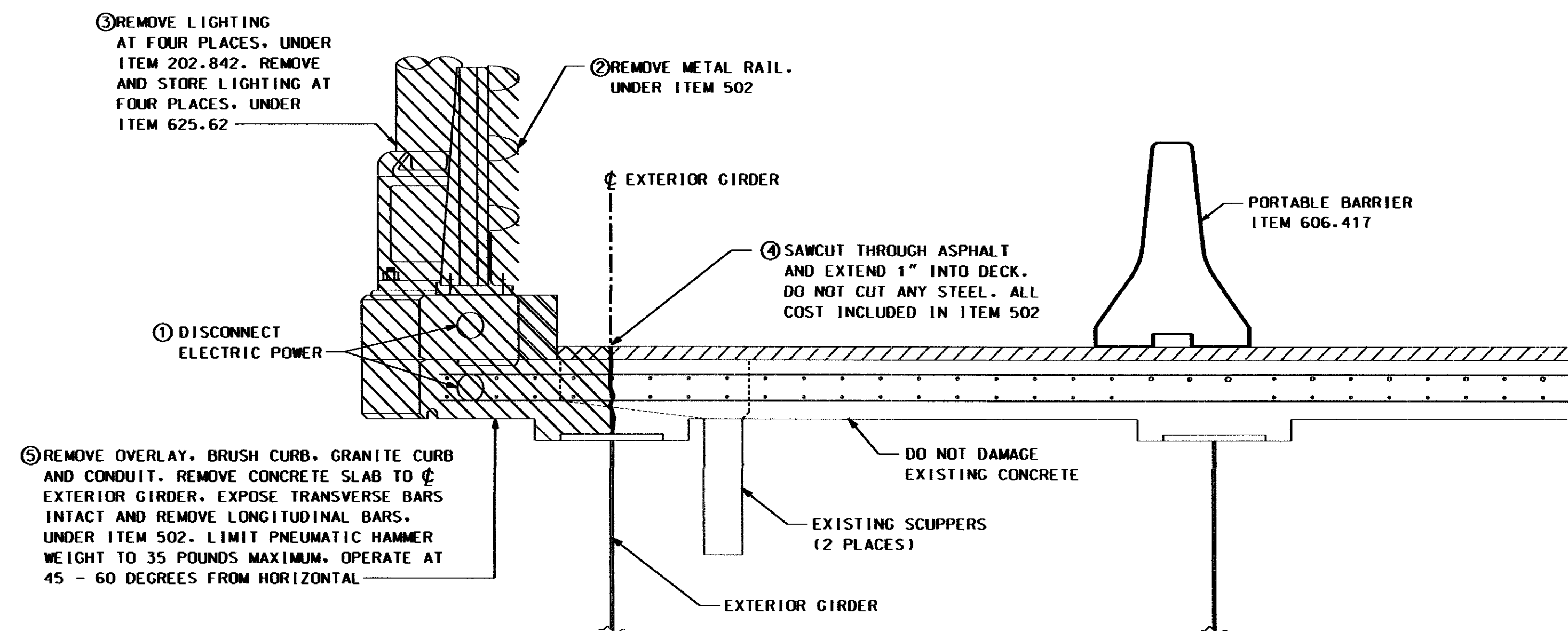
EXISTING CONDITIONS

SCALE: $\frac{3}{4}$ " = 1'-0"



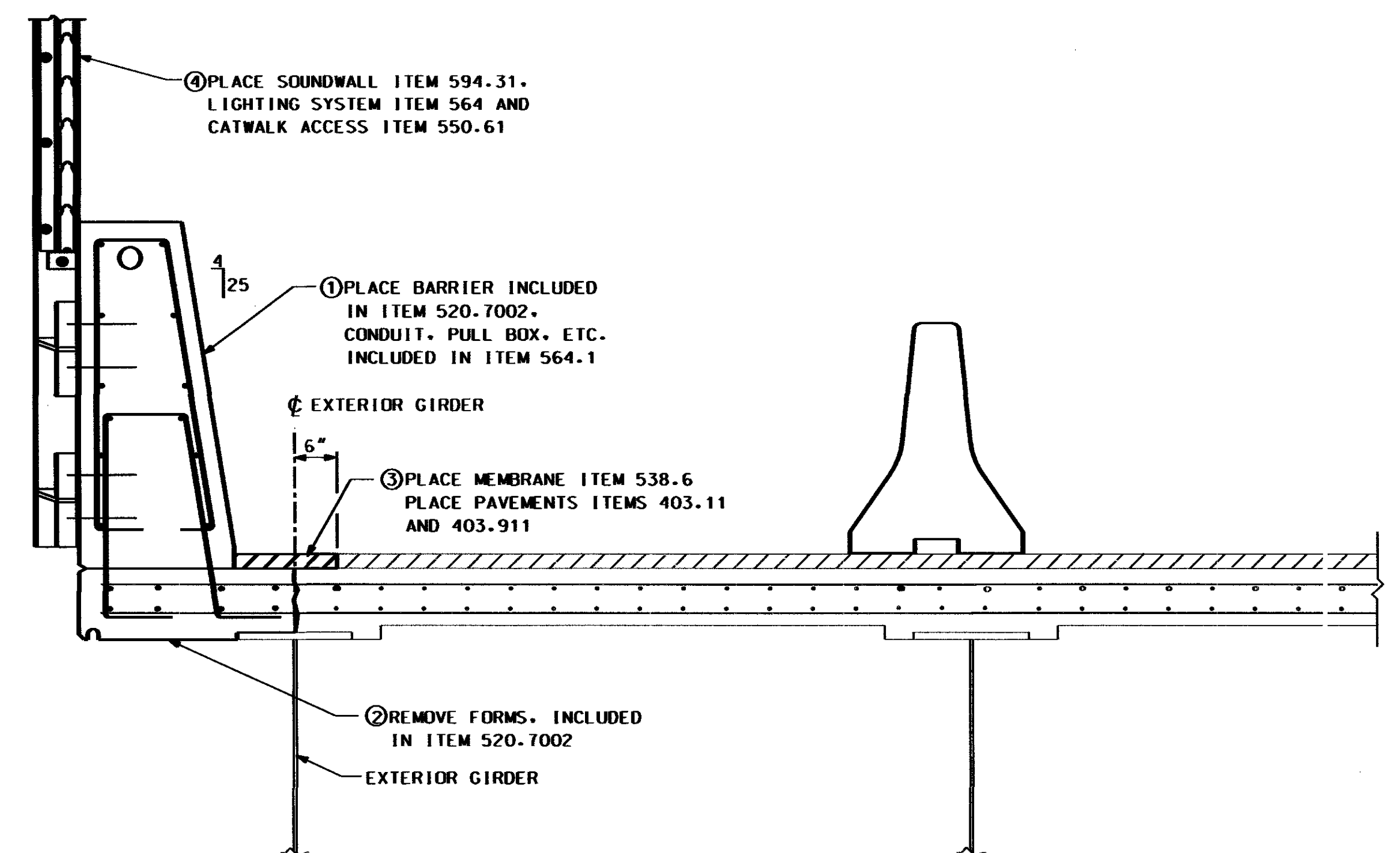
CONSTRUCT DECK

SCALE: $\frac{3}{4}$ " = 1'-0"



REMOVAL

SCALE: $\frac{3}{4}$ " = 1'-0"



FINAL CONSTRUCTION

SCALE: $\frac{3}{4}$ " = 1'-0"

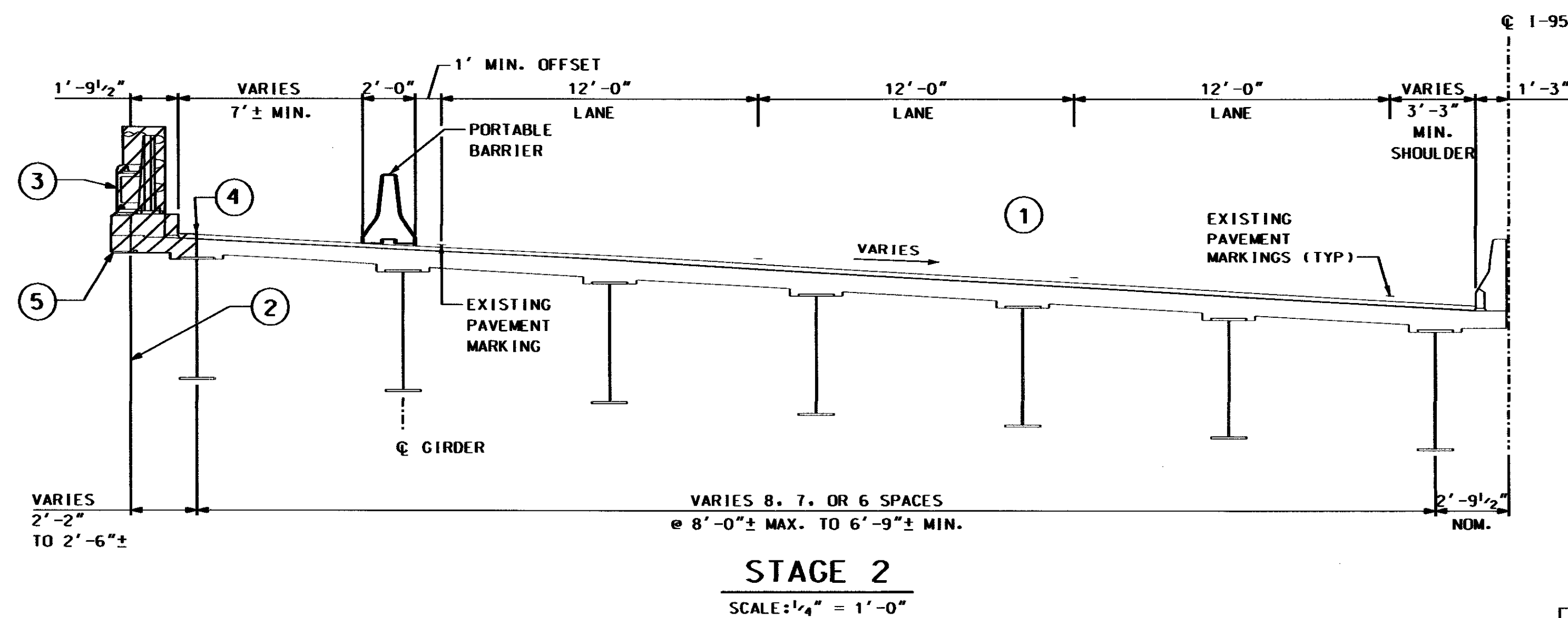
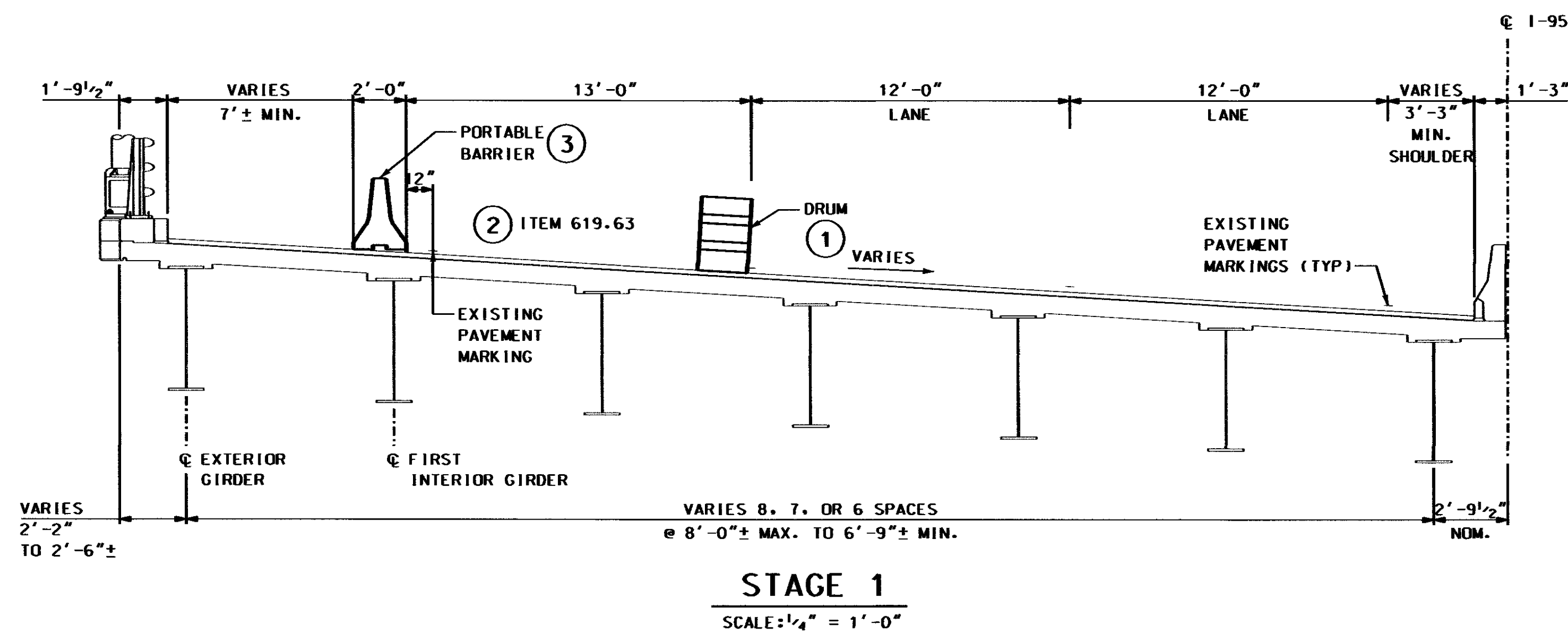
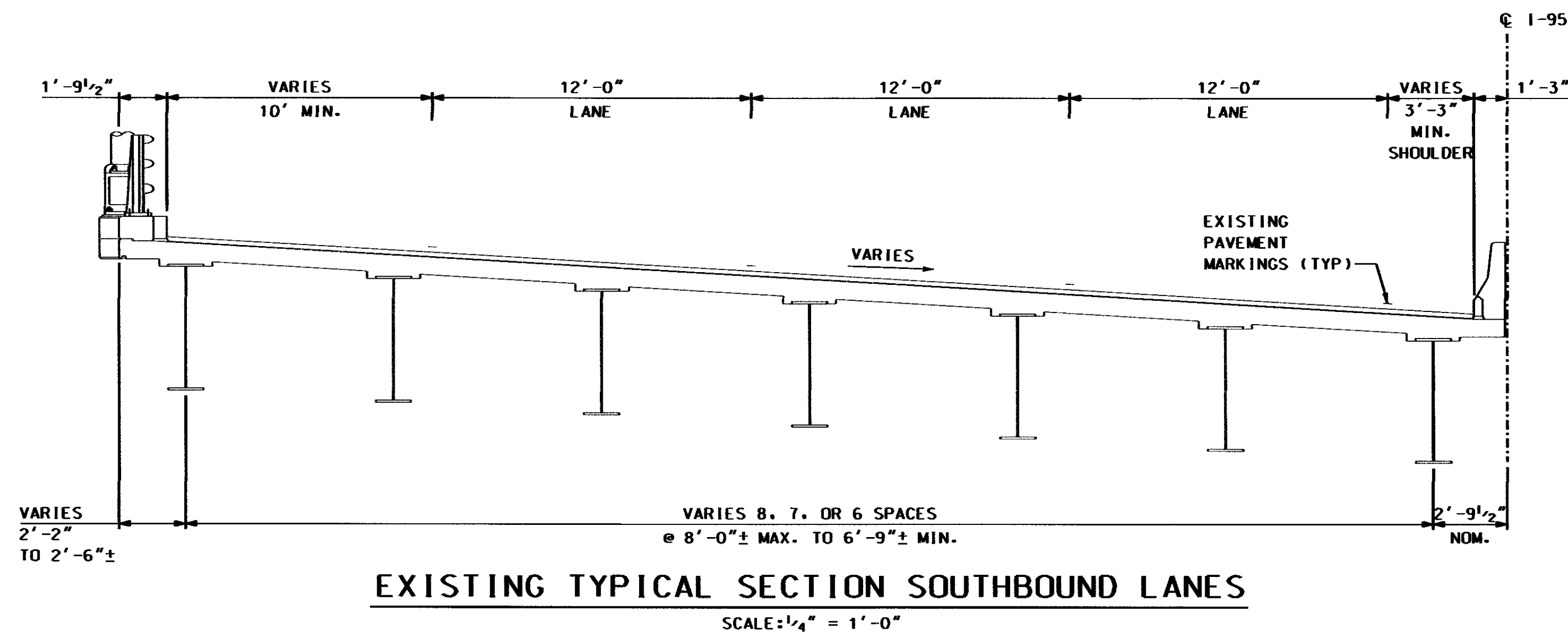
LEGEND



REMOVE THIS PHASE

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckDet4258_128	AS SHOWN

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
RECOMMENDED CONSTRUCTION SEQUENCE										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED	TD	08/11	CHECKED	PMM	08/11	4 of 33	
				DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER	
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1	
				ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS
				REV. DATE					9		
											43



SEQUENCE OF CONSTRUCTION

STAGE 1

1. INSTALL TRAFFIC CONTROL FOR TEMPORARY TWO-LANE SETUP. ALLOWED ONLY FROM 8:00 PM TO 5:00 AM
2. USE TRUCK MOUNTED IMPACT ATTENUATOR (ITEM 619.63) FOR PROTECTION OF EQUIPMENT MAKING TEMPORARY USE OF CLOSED LANE. FOR ANY STAGE.
3. INSTALL PORTABLE BARRIER.

STAGE 2

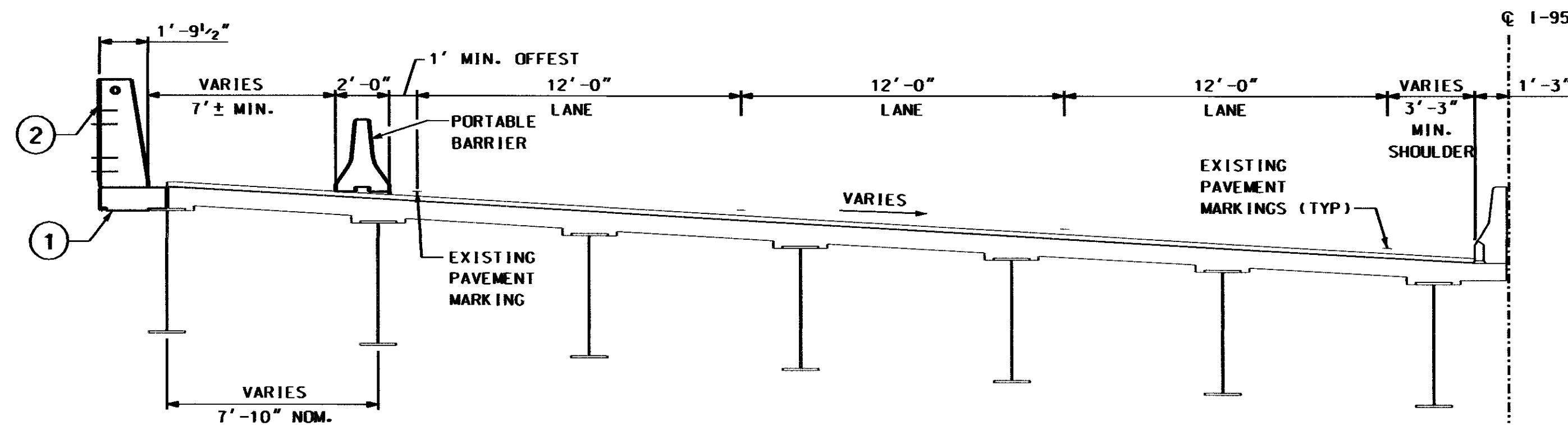
1. INSTALL TRAFFIC CONTROL FOR THREE-LANE SETUP.
2. RECORD OVERHANG DIMENSIONS SO THEY MAY BE RE-ESTABLISHED.
3. DISCONNECT ELECTRIC POWER. REMOVE AND STORE LIGHTING AT 4 PLACES. REMOVE RAIL, BRUSH CURB, AND GRANITE CURB.
4. SAWCUT DECK 1" DEEP OVER CENTERLINE OF EXISTING GIRDER.
5. DEMOLISH DECK WHILE EXPOSING TOP AND BOTTOM TRANSVERSE BARS UNDamaged.

NOTE:

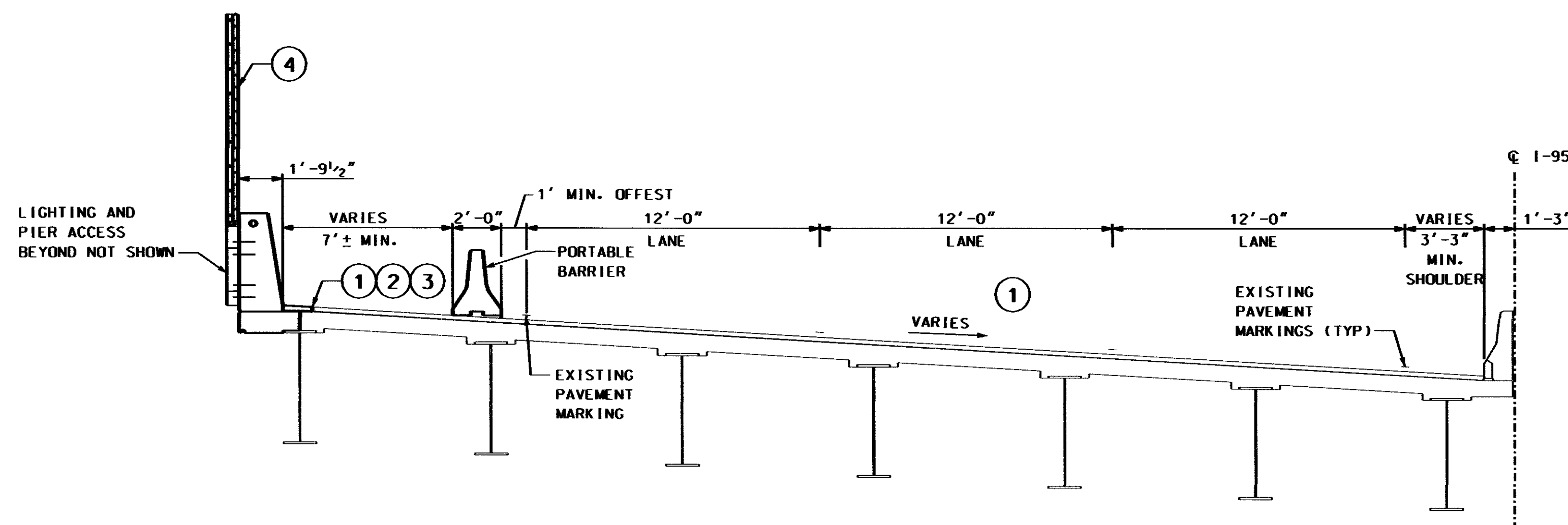
1. TO PROVIDE EQUIPMENT ACCESS. TEMPORARY TWO LANE SETUP (ALLOWED ONLY FROM 8:00 PM TO 5:00 AM) SHOWN IN STAGE 1 MAY BE UTILIZED IN STAGES 2 THRU 5.
2. SEE TRAFFIC CONTROL PLANS.

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL							
STAGED CONSTRUCTION SECTIONS - PART 1									
REVISIONS AFTER PROPOSAL				BY	DATE	BY	DATE	BRIDGE SHEET	
			DESIGNED	TD	08/11	CHECKED	PM	08/11	5 OF 33
			DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER
			QUANTITIES	TD	08/11	CHECKED	PM	08/11	118-1-1
			ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
			REV. DATE					10	43

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
	15760SSDet1_175_076	AS SHOWN



STAGE 3
SCALE: 1/4" = 1'-0"



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

SEQUENCE OF CONSTRUCTION

STAGE 3

- ① FORM AND PLACE DECK AND OVERHANG.
- ② PLACE CONCRETE BRIDGE BARRIER, CONDUIT, JUNCTION BOXES, AND ANCHORS FOR SOUNDWALL.

STAGE 4

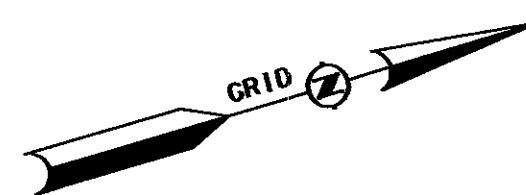
- ① SAWCUT 1" DEPTH INTO EXISTING PAVEMENT, AND REMOVE ASPHALT TO EXPOSE EXISTING MEMBRANE FOR LAPPING.
- ② PLACE NEW MEMBRANE, LAPPING ONTO EXPOSED EXISTING MEMBRANE.
- ③ PLACE BRIDGE DECK PAVEMENT.
- ④ PLACE LIGHTING, PIER CATWALK ACCESSES AND SOUNDWALL.

STAGE 5

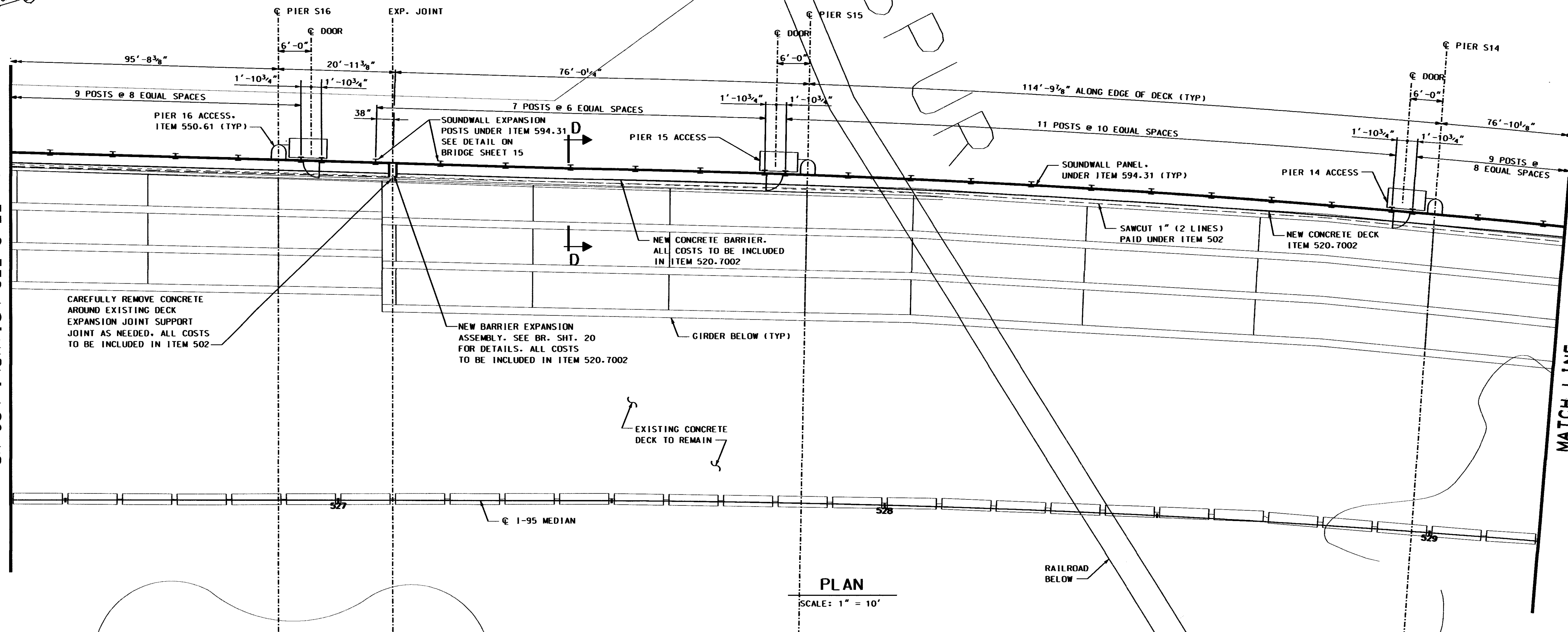
- ① REMOVE PORTABLE BARRIER DURING OFF-PEAK TRAFFIC PERIOD, USING 2-LANE TRAFFIC CONTROL SETUP.
- ② PERFORM MISCELLANEOUS FINAL ACTIVITIES.

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
STAGED CONSTRUCTION SECTIONS - PART 2										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED		TD 08/11		CHECKED		PMM 08/11	
				DRAWN		FLC 08/11		CHECKED		TD 08/11	
				QUANTITIES		TD 08/11		CHECKED		PMM 08/11	
ISSUE DATE						FEDERAL PROJECT NO.				SHEET NO.	
REV. DATE										11	
										43	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
	15760SSDet2_175_076	AS SHOWN



MATCH LINE
FOR CONTINUATION SEE SHEET 7



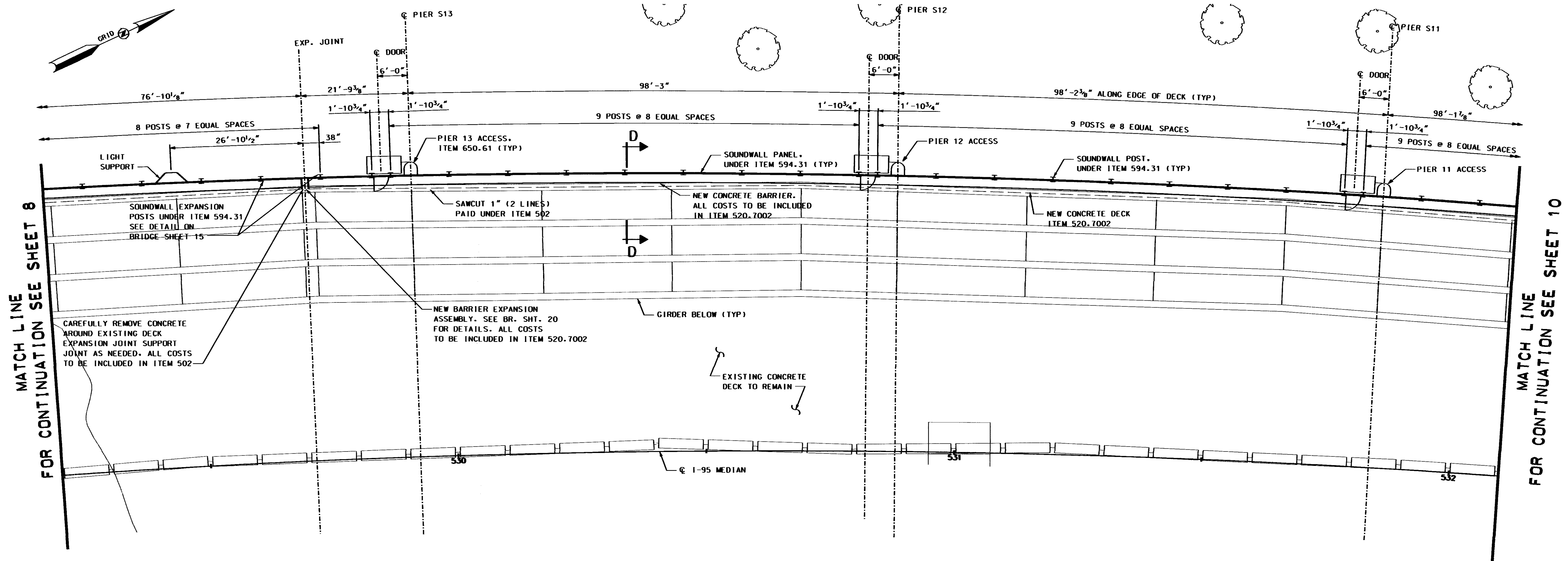
MATCH LINE
FOR CONTINUATION SEE SHEET 9

NOTES

- (1) SEE BRIDGE SHEET 17 FOR SECTION D-D.
- (2) PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.
- (3) SEE BRIDGE SHEET 20 FOR BARRIER EXPANSION ASSEMBLY DETAILS

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckPlan2258_128	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL							
PLAN - PART 2									
REVISIONS AFTER PROPOSAL				BY	DATE	BY	DATE	BRIDGE SHEET	
				DESIGNED	TD	08/11	CHECKED	PMM	08/11
				DRAWN	FLC	08/11	CHECKED	TD	08/11
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11
				ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.
				REV. DATE				13	43
								8 OF 3	
								FILE NUMBER	
								118-1-	
								TOTAL SHEETS	



PLAN

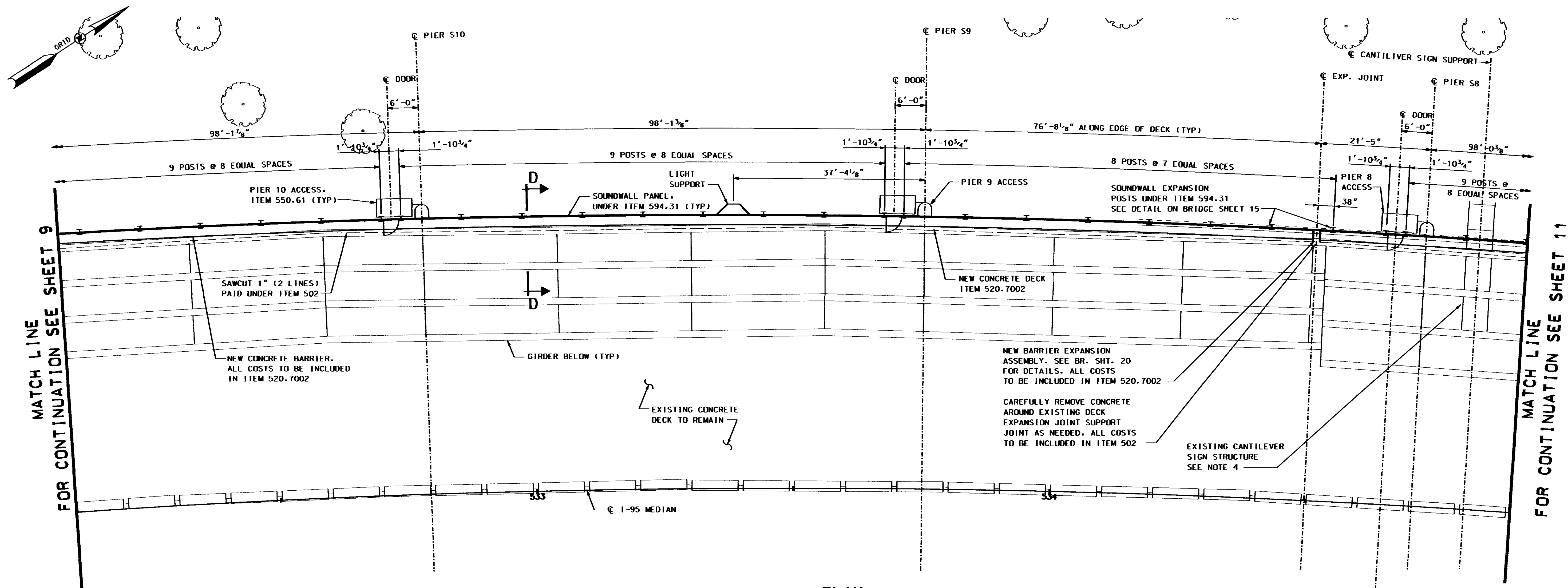
SCALE: 1" = 10'

NOTES

- SEE BRIDGE SHEET 17 FOR SECTION D-D.
- PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.
- SEE BRIDGE SHEET 20 FOR BARRIER EXPANSION ASSEMBLY DETAILS

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH	BRIDGE NO.	258/128	STATE PROJECT	15760				
LOCATION ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
PLAN - PART 3									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	DATE	BRIDGE SHEET			
		DESIGNED	TD	08/11	PMM	08/11	9 OF 33		
		DRAWN	FLC	08/11	TD	08/11	FILE NUMBER		
		QUANTITIES	TD	08/11	PMM	08/11	118-1-1		
		ISSUE DATE	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS			
		REV. DATE			14	43			

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckPlan3258_128	AS NOTED



PLAN

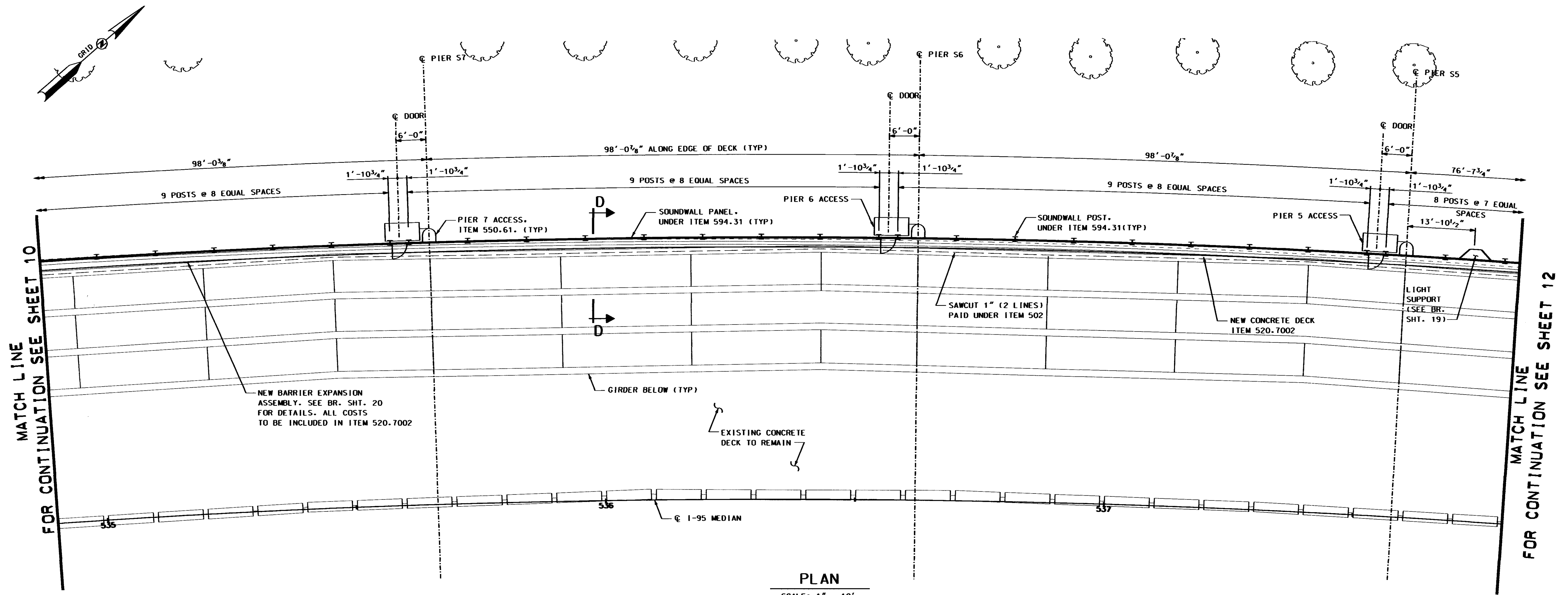
SCALE: 1" = 10'

NOTES

- SEE BRIDGE SHEET 17 FOR SECTION D-D.
- PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.
- SEE BRIDGE SHEET 20 FOR BARRIER EXPANSION DETAILS
- EXISTING CANTILEVER SIGN WILL BE REPLACED DURING THIS PROJECT PER PLANS PREPARED BY OTHERS. SEE BRIDGE SHEET 29 FOR EXIST SIGN STRUCTURE DETAILS.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckPlan4258_128	AS NOTED

STATE OF NEW HAMPSHIRE													
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN													
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760			
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL											
PLAN - PART 4										BRIDGE SHEET			
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE		10 OF 33	
				DESIGNED		TD 08/11		CHECKED		PMM 08/11		FILE NUMBER 118-1-1	
				DRAWN		FLC 08/11		CHECKED		TD 08/11			
				QUANTITIES		TD 08/11		CHECKED		PMM 08/11			
				ISSUE DATE				FEDERAL PROJECT NO.				SHEET NO.	TOTAL SHEETS
				REV. DATE								15	43

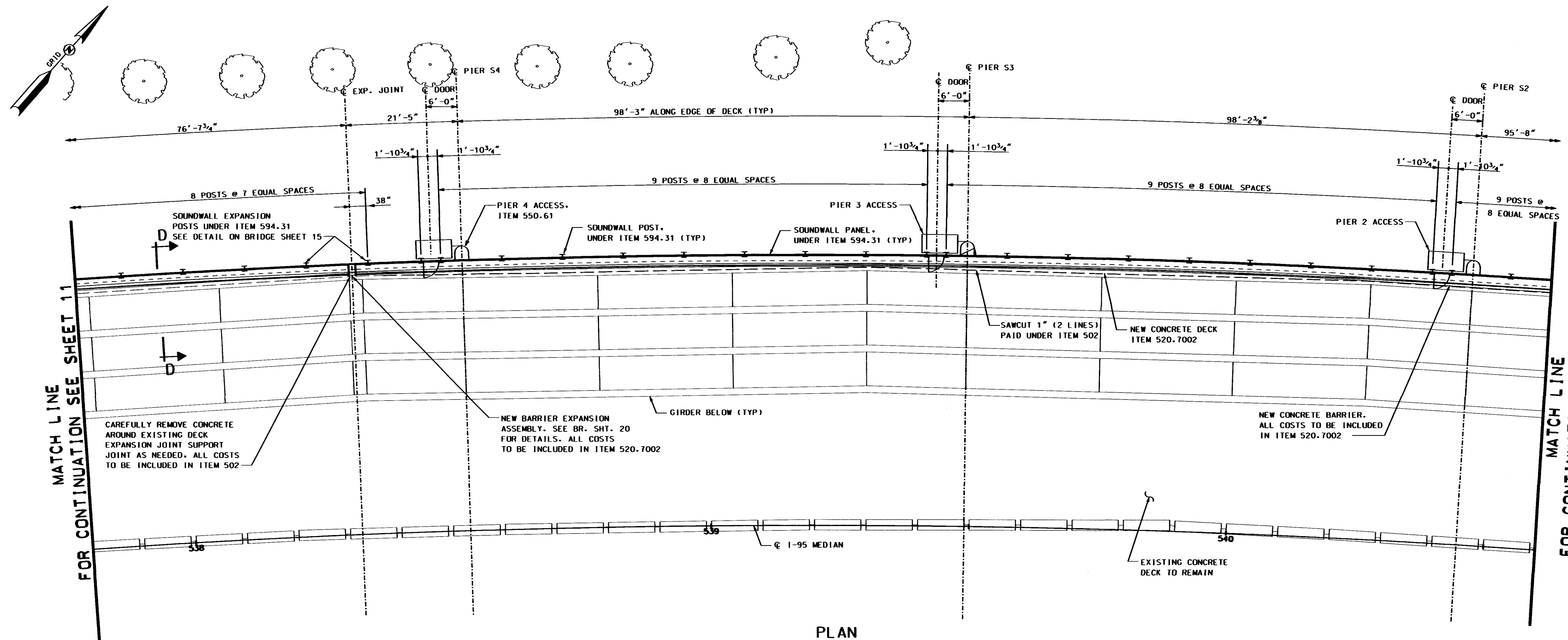


NOTES

- SEE BRIDGE SHEET 17 FOR SECTION D-D.
- PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION										ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL	
PLAN - PART 5										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL										11 OF 33	
DESIGNED										FILE NUMBER	
DRAWN										118-1-1	
QUANTITIES										TOTAL SHEETS	
ISSUE DATE										16	
REV. DATE										43	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckPlan5258_128	AS NOTED



PLAN

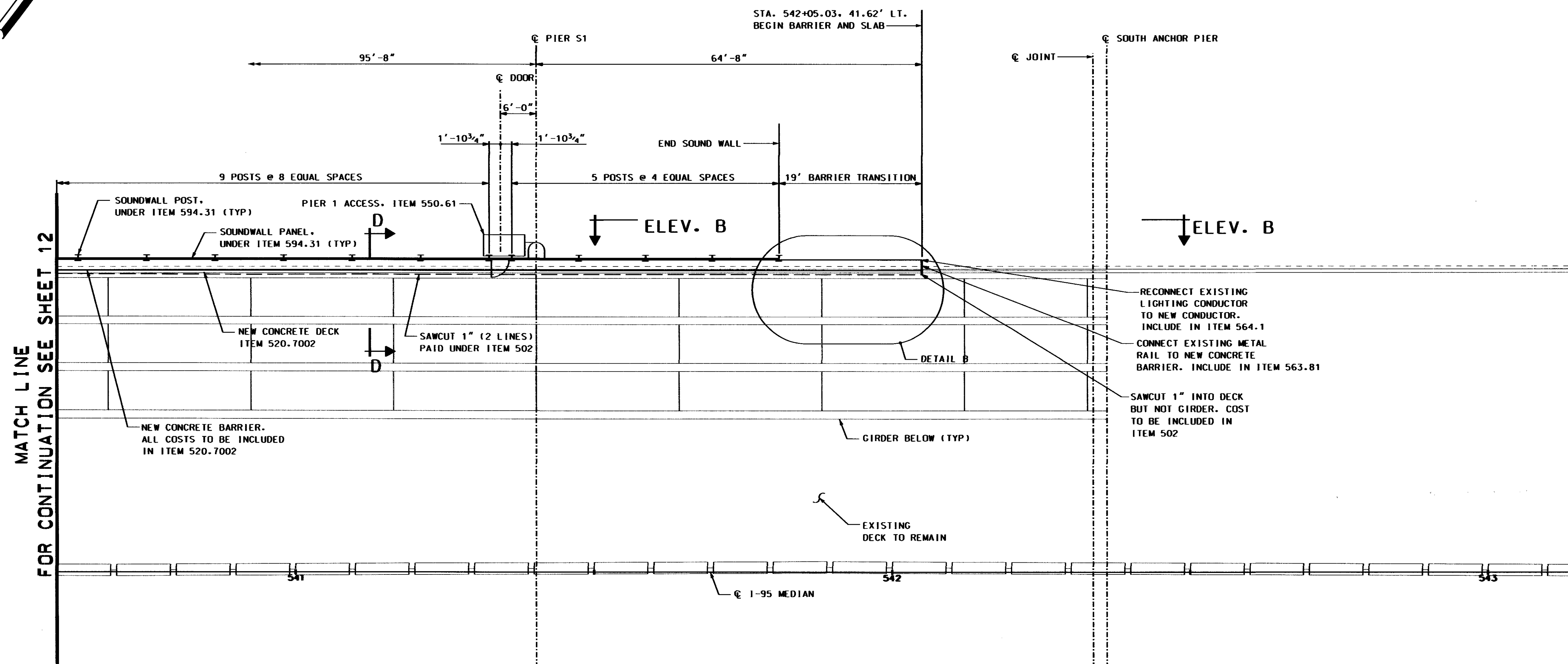
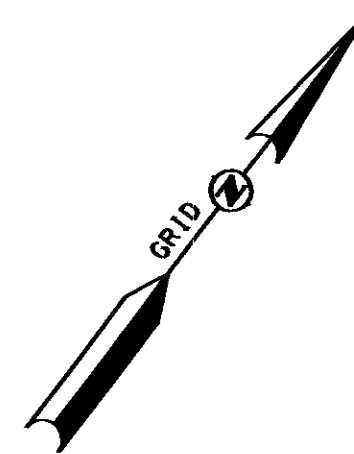
SCALE: 1" = 10'

NOTES

- (1) SEE BRIDGE SHEET 17 FOR SECTION D-D.
- (2) PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.
- (3) SEE BRIDGE SHEET 20 FOR BARRIER EXPANSION ASSEMBLY DETAILS

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckPlan6258_128	AS NOTED

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
PLAN - PART 6										BRIDGE SHEET	
		REVISIONS AFTER PROPOSAL								12 OF 33	
				DESIGNED		BY		DATE		FILE NUMBER	
				DRAWN		FLC		08/11		08/11	
				QUANTITIES		TD		08/11		118-1-1	
				ISSUE DATE				FEDERAL PROJECT NO.		SHEET NO.	
				REV. DATE						17	
										TOTAL SHEETS	
										43	



MATCH LINE
FOR CONTINUATION SEE SHEET 12

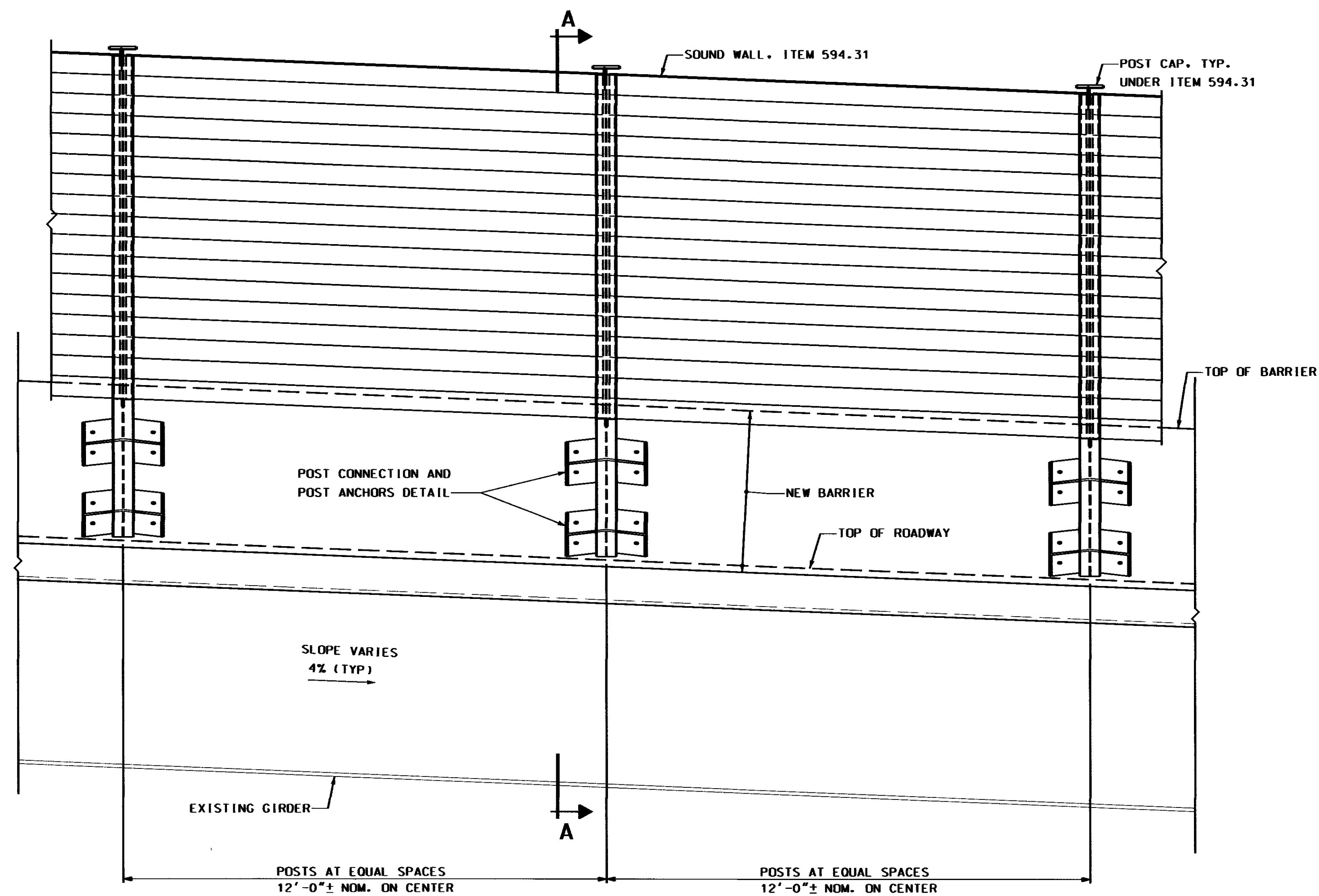
PLAN

SCALE: 1" = 10'

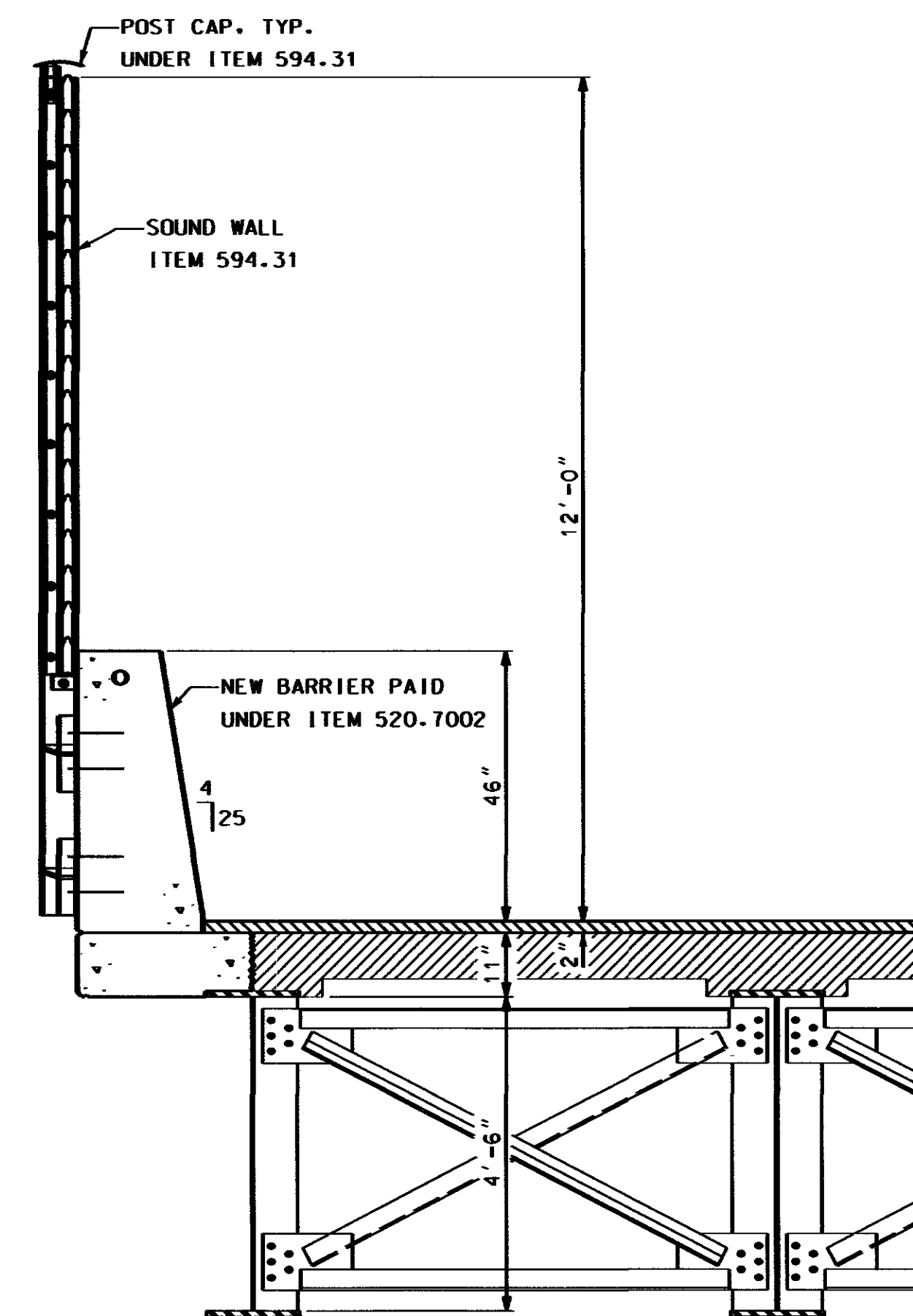
NOTES

- (1) SEE BRIDGE SHEET 16 FOR BARRIER TRANSITION DETAIL B AND ELEVATION B.
- (2) SEE BRIDGE SHEET 17 FOR SECTION D-D.
- (3) PLACE 1" OPEN JOINT IN NEW CONCRETE BARRIER AT PIERS AND BETWEEN POSTS NEAR MIDSPAN.

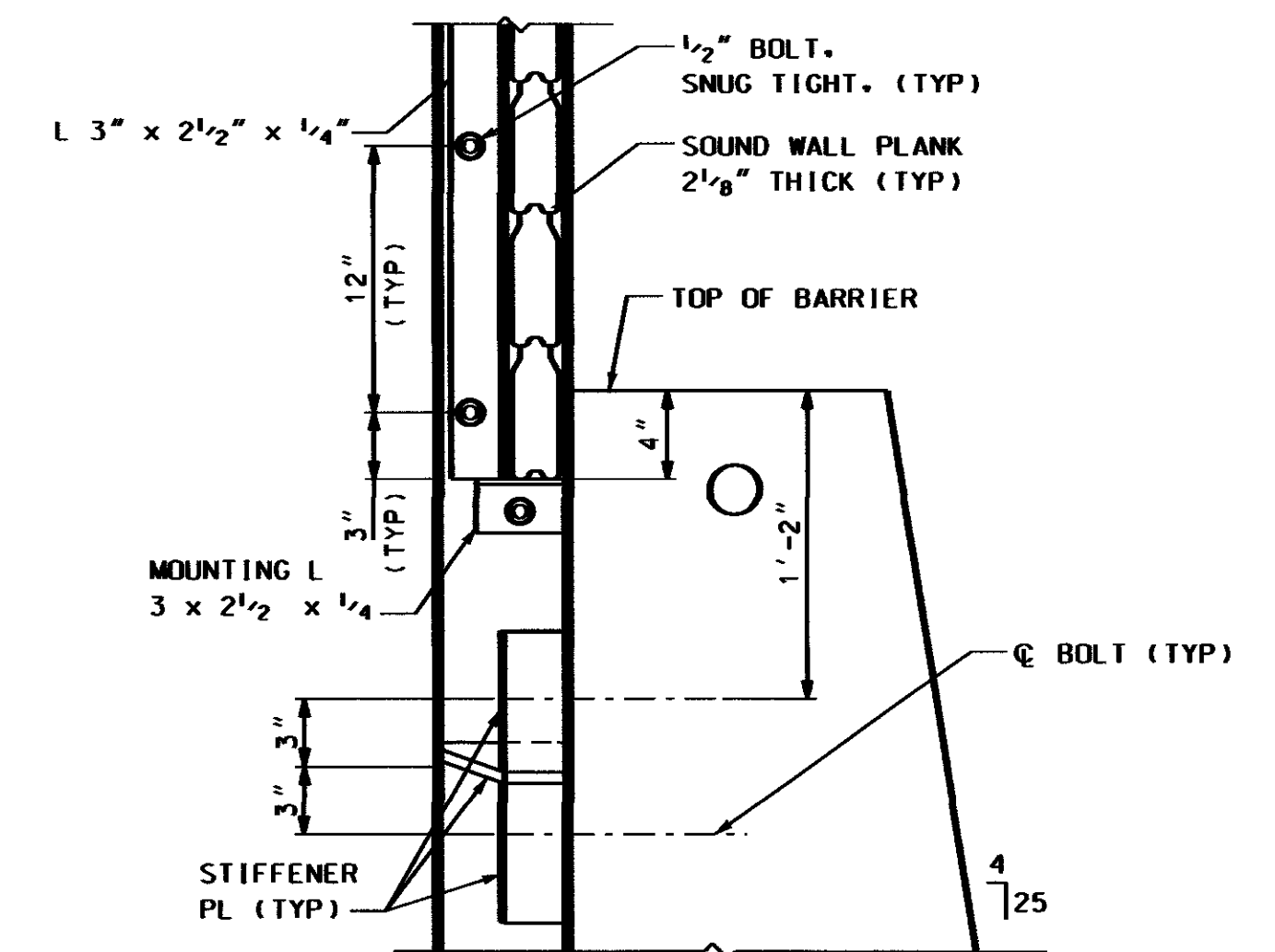
STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL											
PLAN - PART 7										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL										13 OF 33	
DESIGNED BY TD 08/11 CHECKED BY PMM 08/11										FILE NUMBER	
DRAWN BY FLC 08/11 CHECKED BY TD 08/11										118-1-1	
QUANTITIES BY TD 08/11 CHECKED BY PMM 08/11										TOTAL SHEETS	
ISSUE DATE										SHEET NO.	
REV. DATE										18	
SUBDIRECTORY		DGN LOCATOR		SHEET SCALE		FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS	
XX		5760DeckPlan7258_128		AS NOTED				18		43	



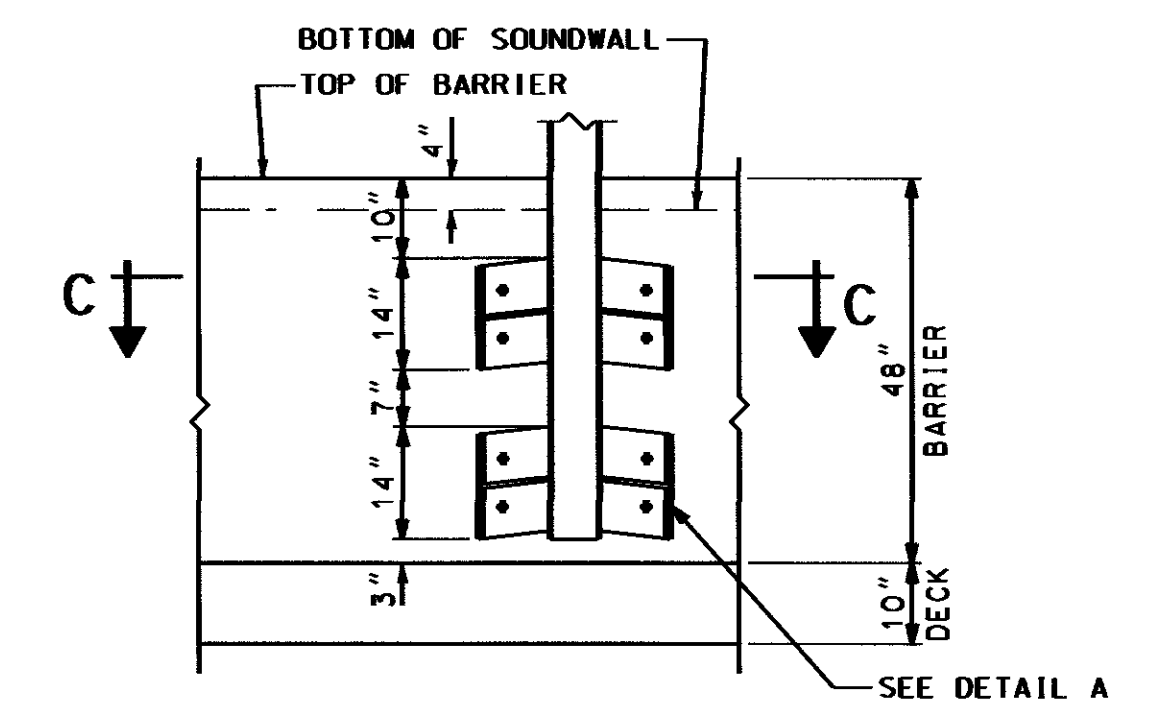
WALL ELEVATION
SCALE: 1/2" = 1'-0"



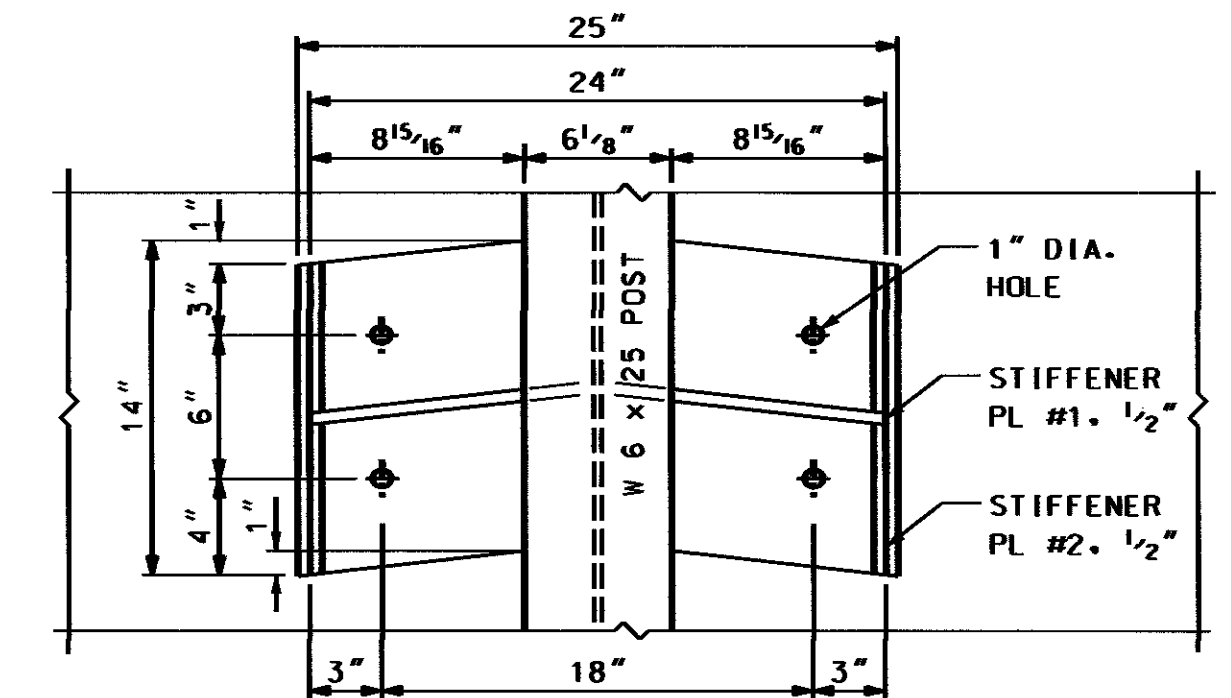
SECTION A-A
SCALE: 1/2" = 1'-0"



DETAIL OF POST CONNECTION
SCALE: 1 1/2" = 1'-0"



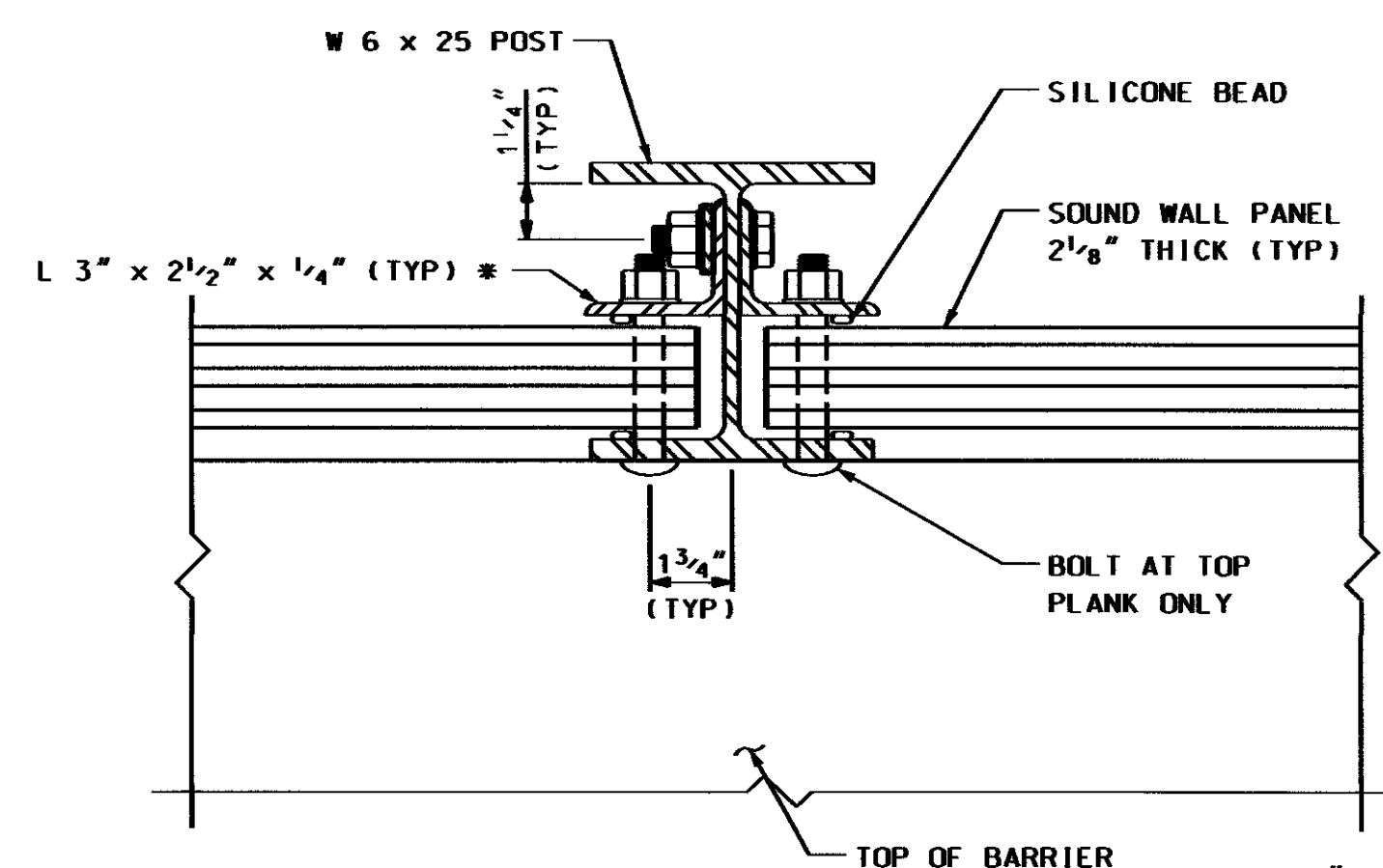
POST CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



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

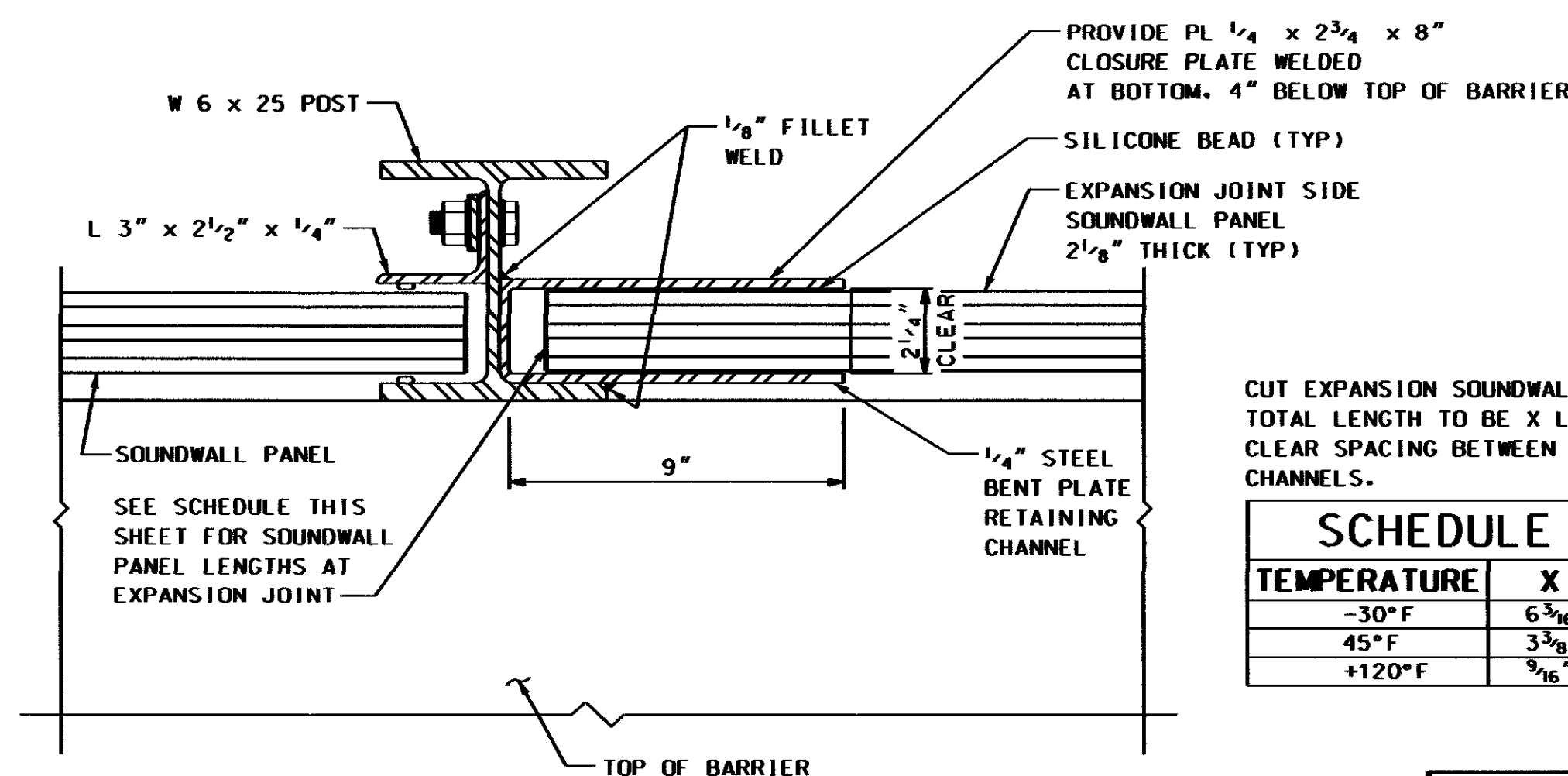
NOTES

- (1) FOR SECTION C-C AND POST ANCHOR DETAILS SEE BRIDGE SHEET 18.
- (2) ALL BOLTS SHALL BE STAINLESS STEEL.
- (3) SEE BRIDGE SHEET 14 FOR POST CAP DETAILS.



POST DETAILS
SCALE: 3" = 1'-0"

* L 3" x 2 1/2" x 1/4" BRACKET TO BE MOUNTED AFTER PANELS ARE PLACED. BRACKET TO BE HELD SNUG AGAINST PANELS WHILE TORQUING HARDWARE.



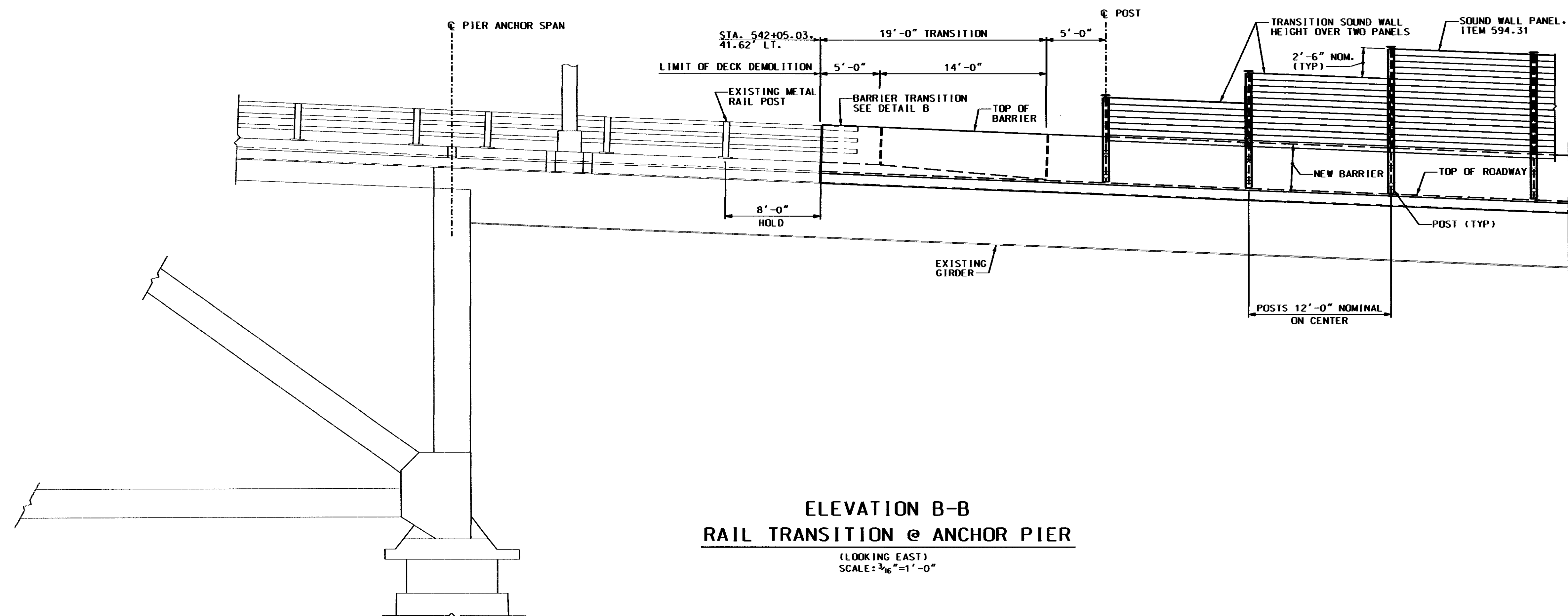
EXPANSION POST DETAIL @ EXPANSION JOINT
SCALE: 3" = 1'-0"

CUT EXPANSION SOUNDWALL PANEL TOTAL LENGTH TO BE X LESS THAN CLEAR SPACING BETWEEN RETAINING CHANNELS.

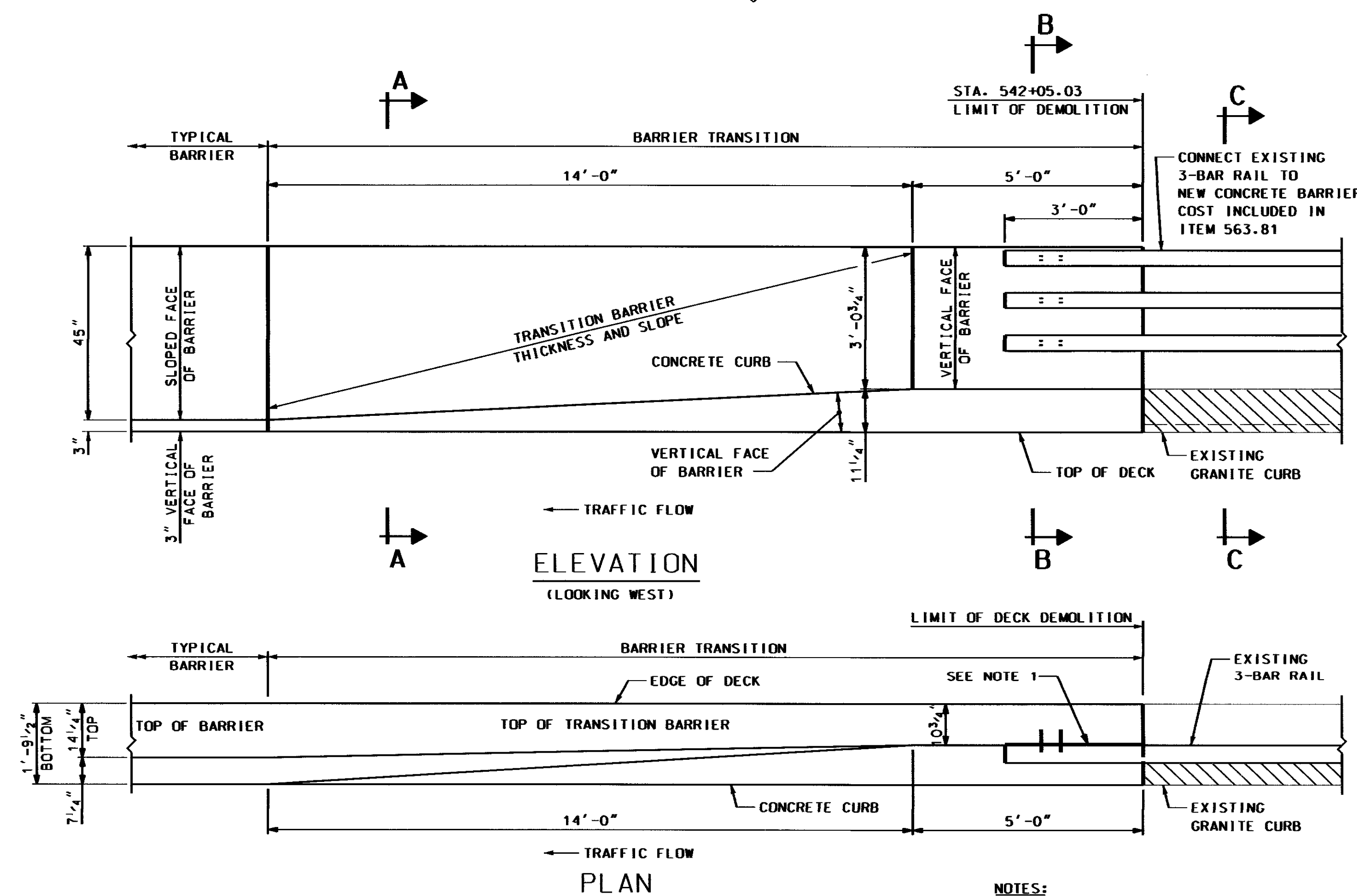
SCHEDULE	
TEMPERATURE	X
-30°F	6 3/16"
45°F	3 3/8"
+120°F	3 1/16"

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
SOUND WALL DETAILS - PART 2								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL			BY	DATE	CHECKED	BY	DATE	15 OF 33	
			DESIGNED	PMM	08/11	CHECKED	TD	08/11	FILE NUMBER
			DRAWN	FLC	08/11	CHECKED	TD	08/11	118-1-1
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	TOTAL SHEETS
			ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.		
			REV. DATE				20		43

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760WallDet2258_128	AS SHOWN



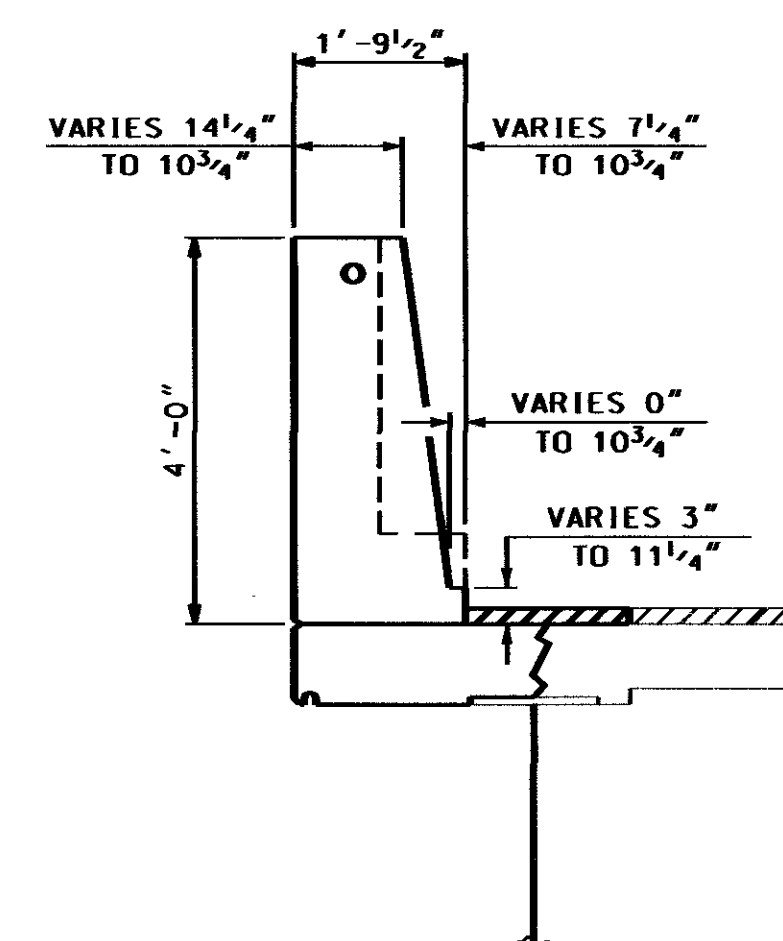
ELEVATION B-B
RAIL TRANSITION @ ANCHOR PIER
 (LOOKING EAST)
 SCALE: $\frac{3}{16}'' = 1' - 0''$



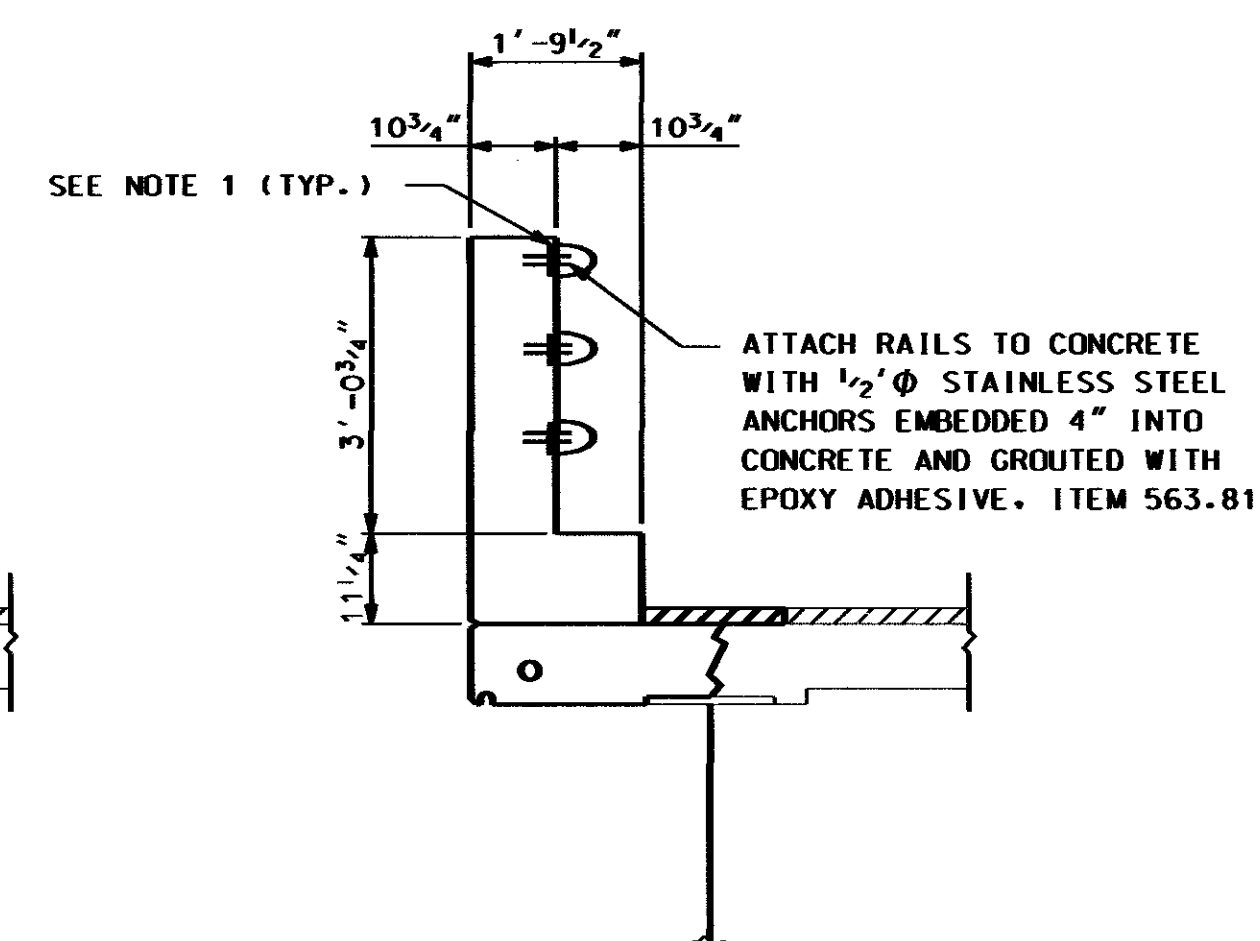
DETAIL B
BARRIER TRANSITION @ ANCHOR PIER
 SCALE: $\frac{1}{2}'' = 1' - 0''$

NOTES:

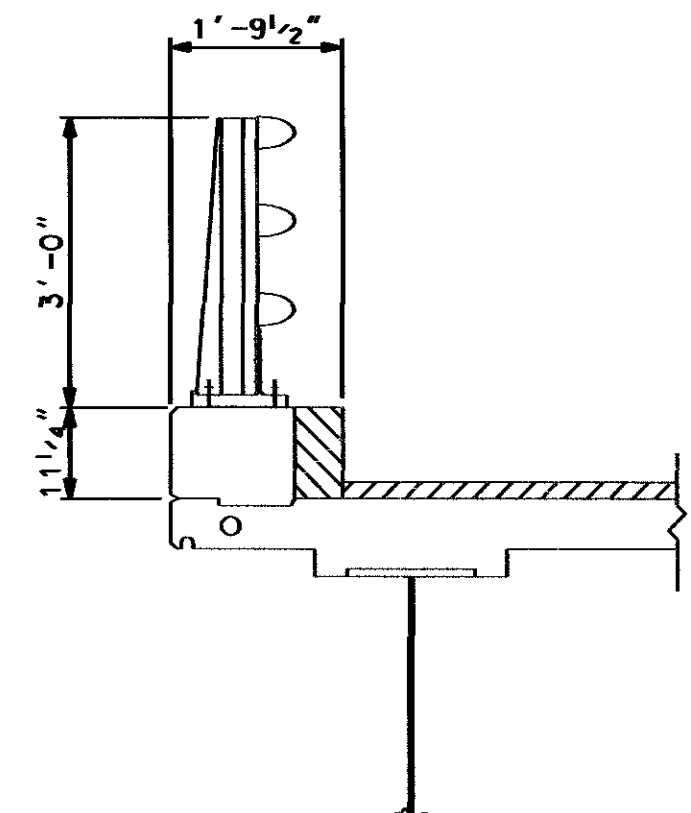
1. ISOLATE ALL ALUMINUM FROM CONCRETE WITH $\frac{1}{8}''$ ELASTOMERIC PAD CONFORMING TO AASHTO M251. UNDER ITEM 563.81.



SECTION A - A
 (LOOKING NORTH)



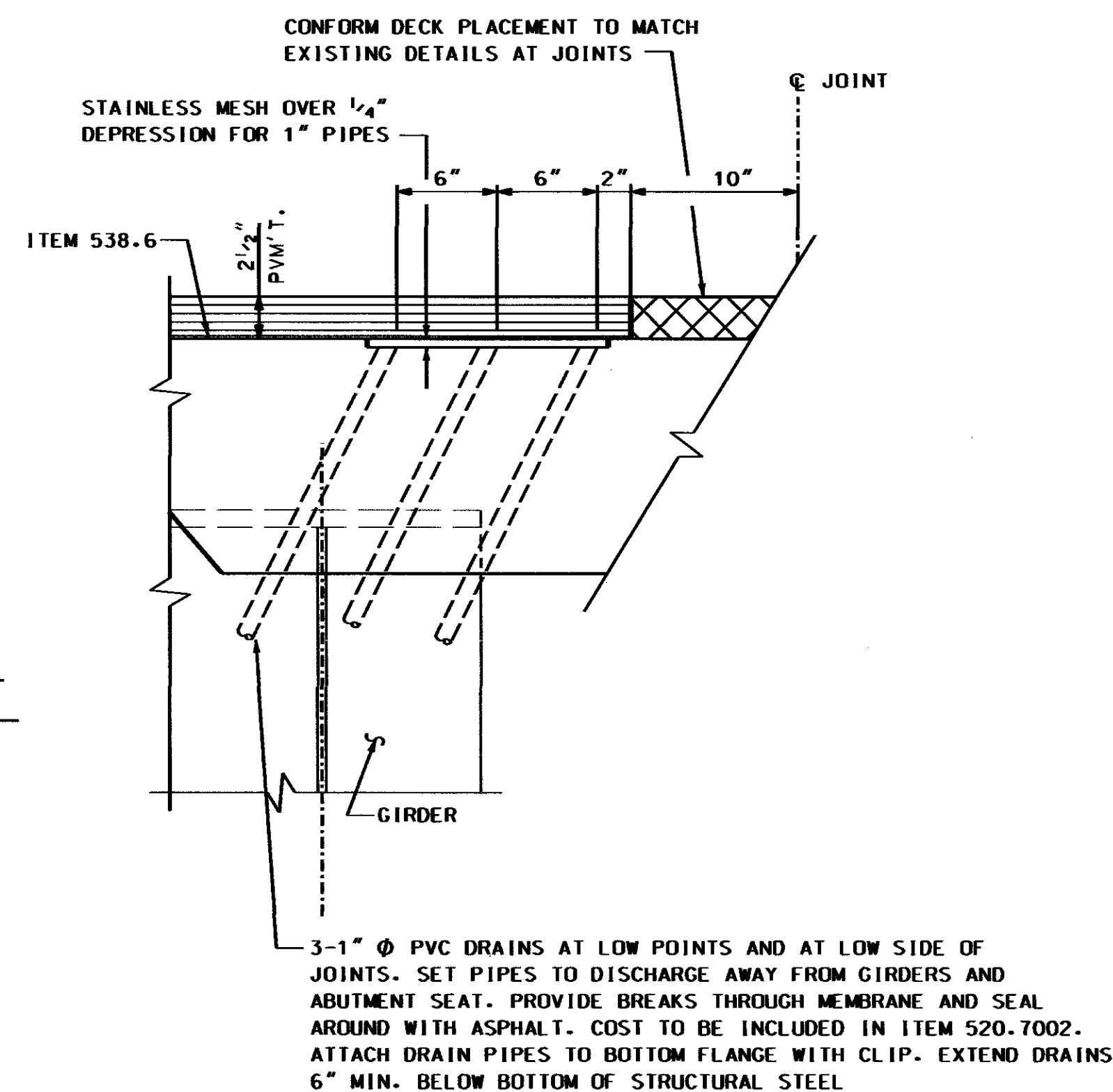
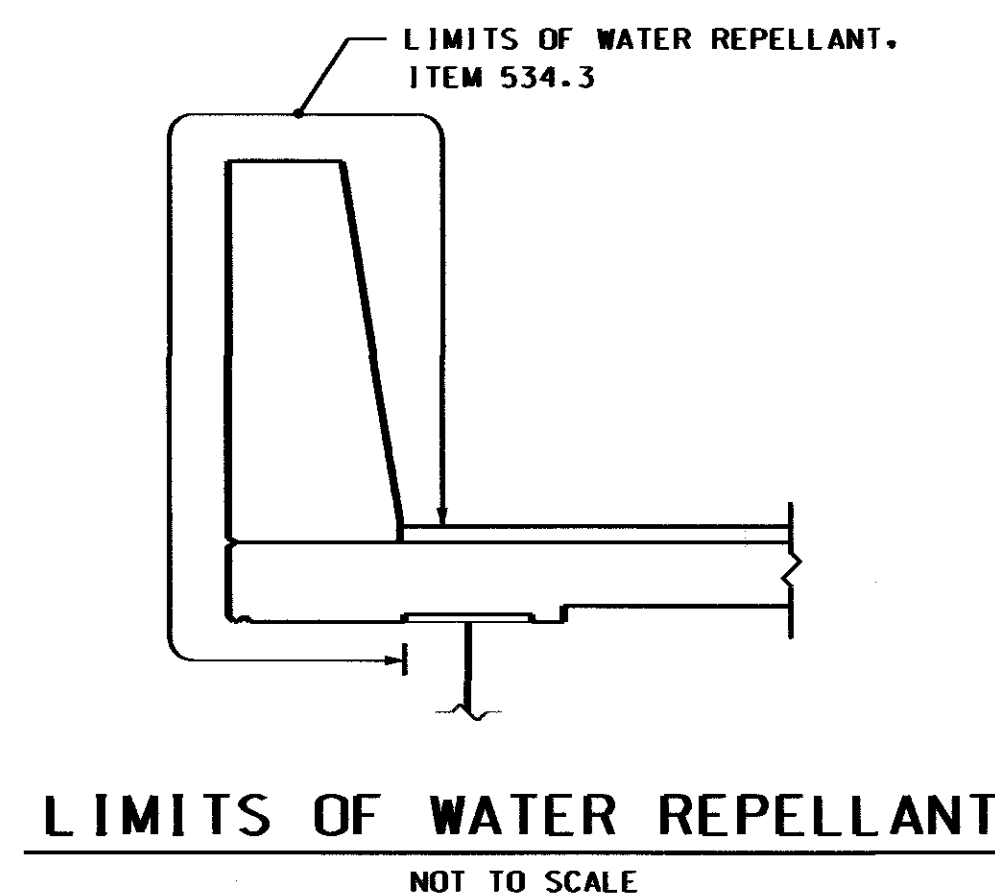
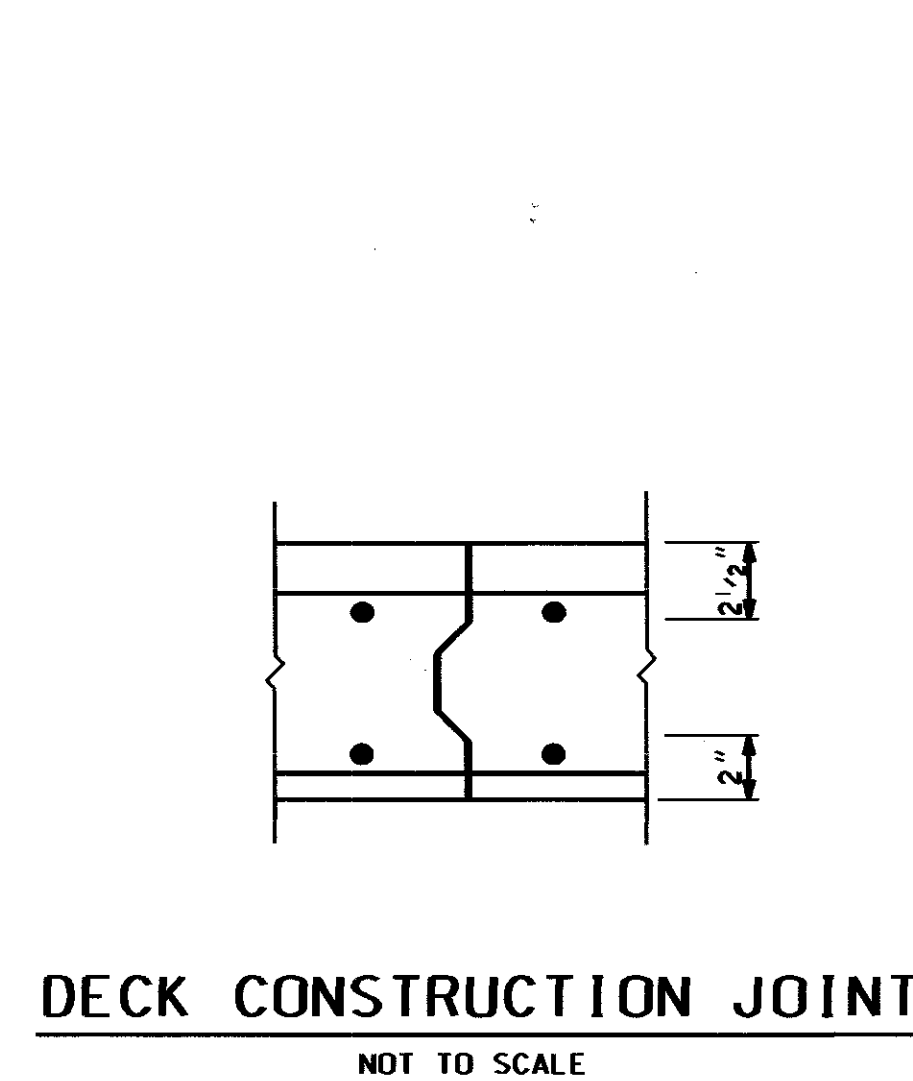
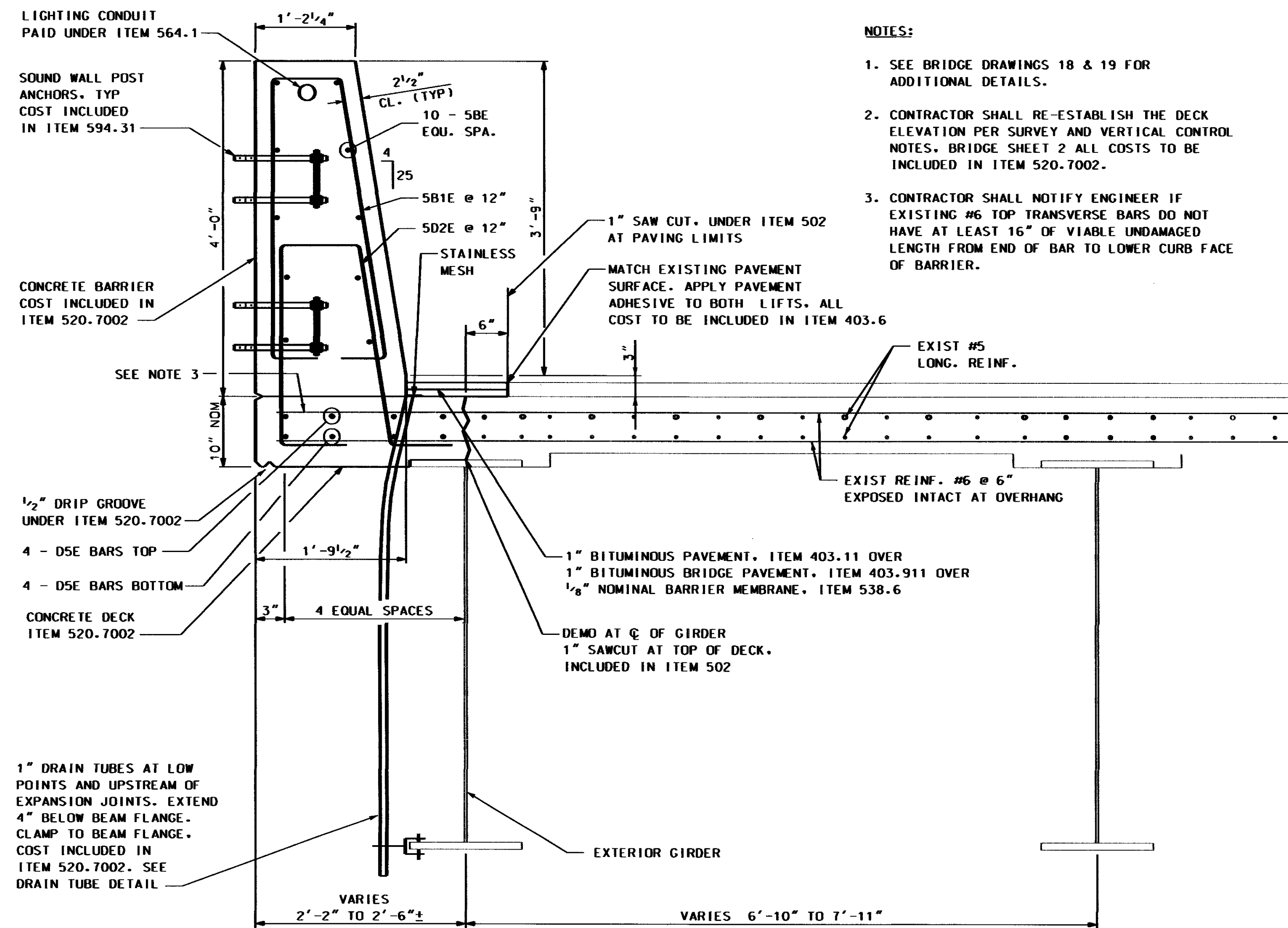
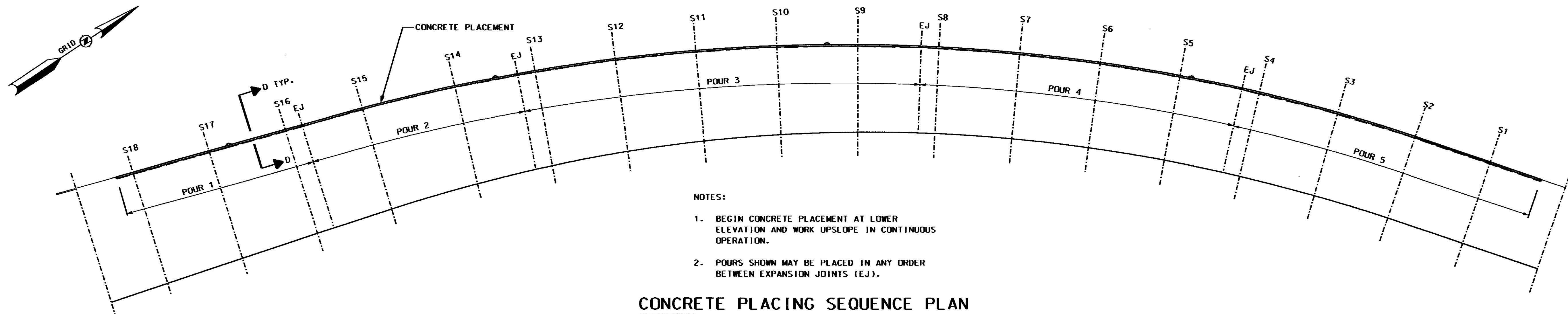
SECTION B - B
 (LOOKING NORTH)



SECTION C - C
 (LOOKING NORTH)

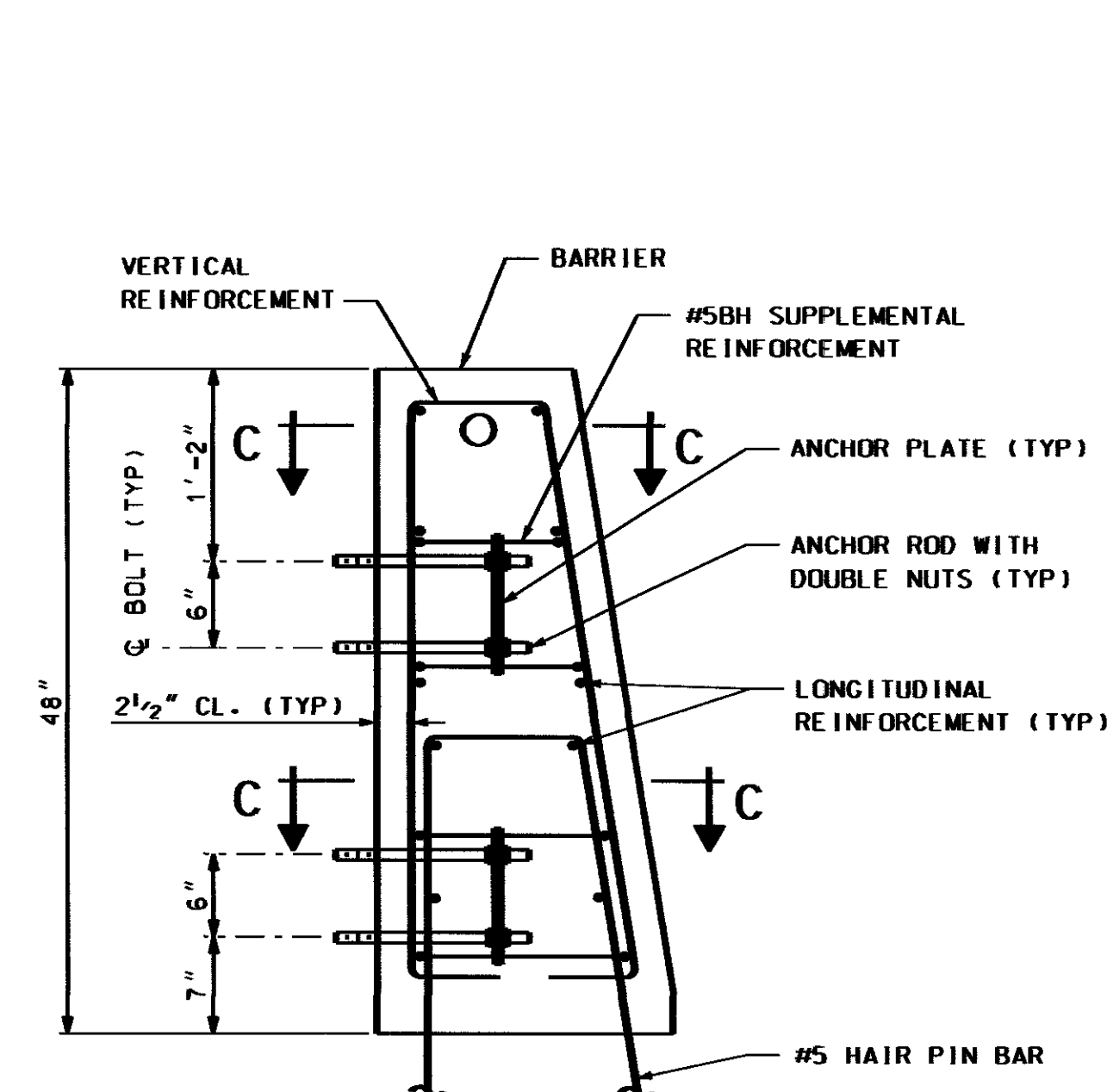
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT 15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL							
SOUND WALL DETAILS - PART 3								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY	DATE	BY	DATE	16 OF 33	
				DESIGNED	PMM	08/11	CHECKED	TD	08/11
				DRAWN	FLC	08/11	CHECKED	TD	08/11
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11
ISSUE DATE				FEDERAL PROJECT NO.				SHEET NO.	
REV. DATE								21	
								TOTAL SHEETS	
								43	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760WallDetails3258_128	AS SHOWN

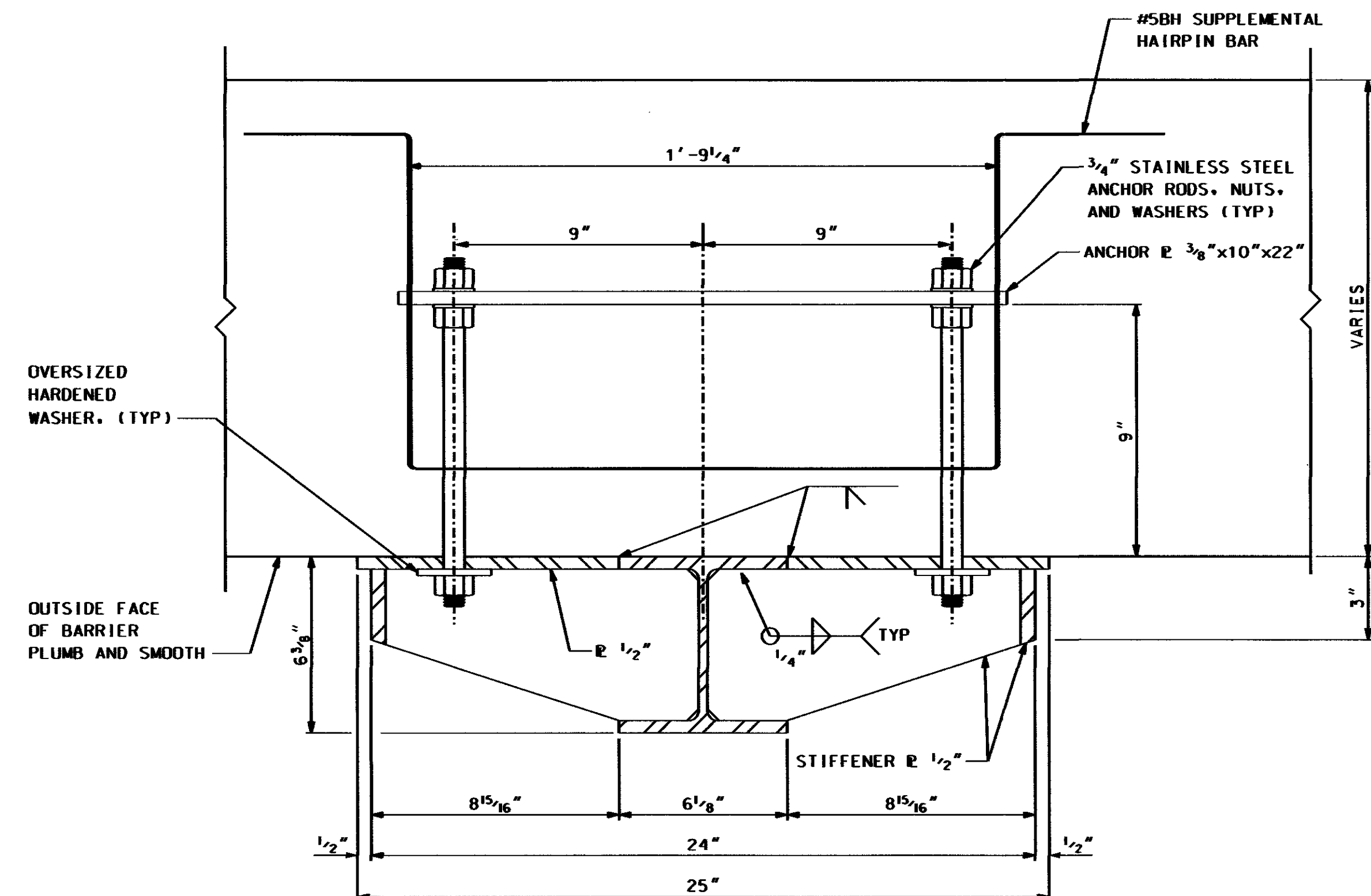


STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
SUPERSTRUCTURE DETAILS										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED		PMM 08/11		CHECKED		TD 08/11	
				DRAWN		FLC 08/11		CHECKED		TD 08/11	
				QUANTITIES		TD 08/11		CHECKED		PMM 08/11	
				ISSUE DATE				FEDERAL PROJECT NO.		SHEET NO.	
				REV. DATE						22	
										43	
										17 OF 33	
										FILE NUMBER	
										118-1-1	
										TOTAL SHEETS	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckDet3258_128	AS SHOWN



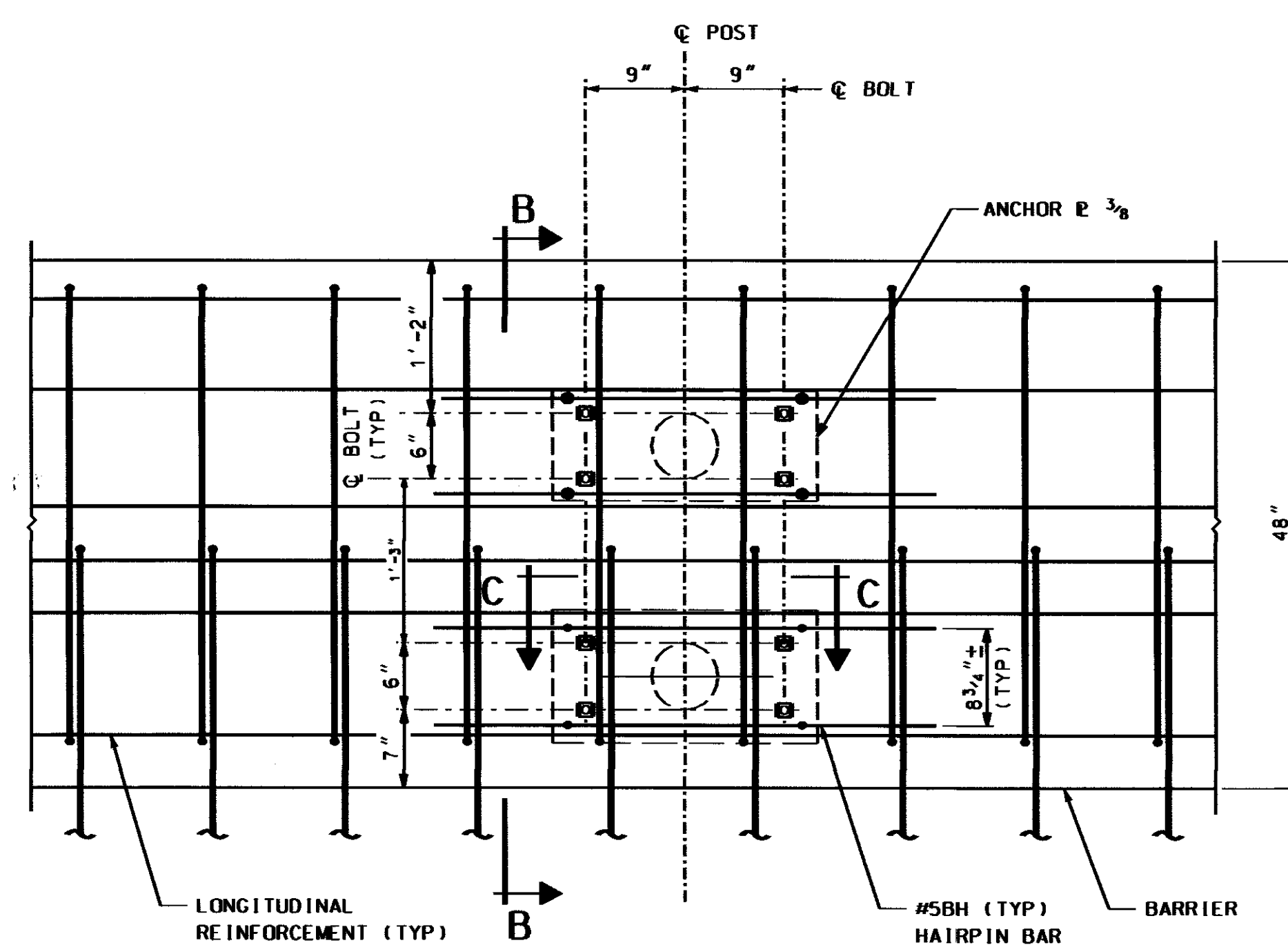
SECTION B-B



SECTION C-C

NOT TO SCALE

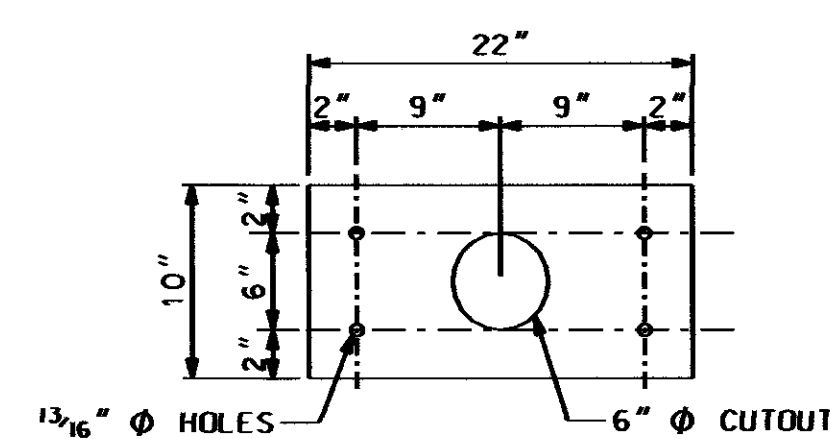
NOTE:
DO NOT PLACE BARRIER CONSTRUCTION JOINTS
WITHIN 14" EITHER SIDE OF ANCHOR BOLTS.



ELEVATION

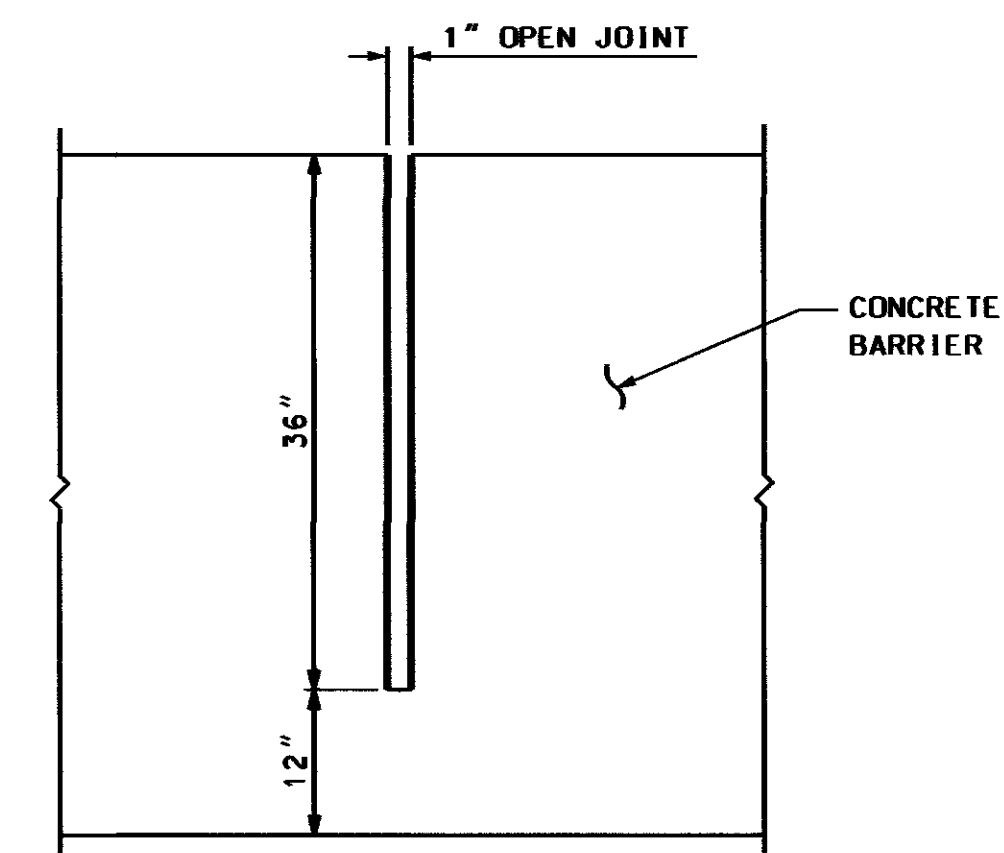
POST CONNECTION REINFORCEMENT

SCALE: 1" = 1'-0"



ANCHOR PLATE

(M270 GR36 STEEL)
NOT TO SCALE

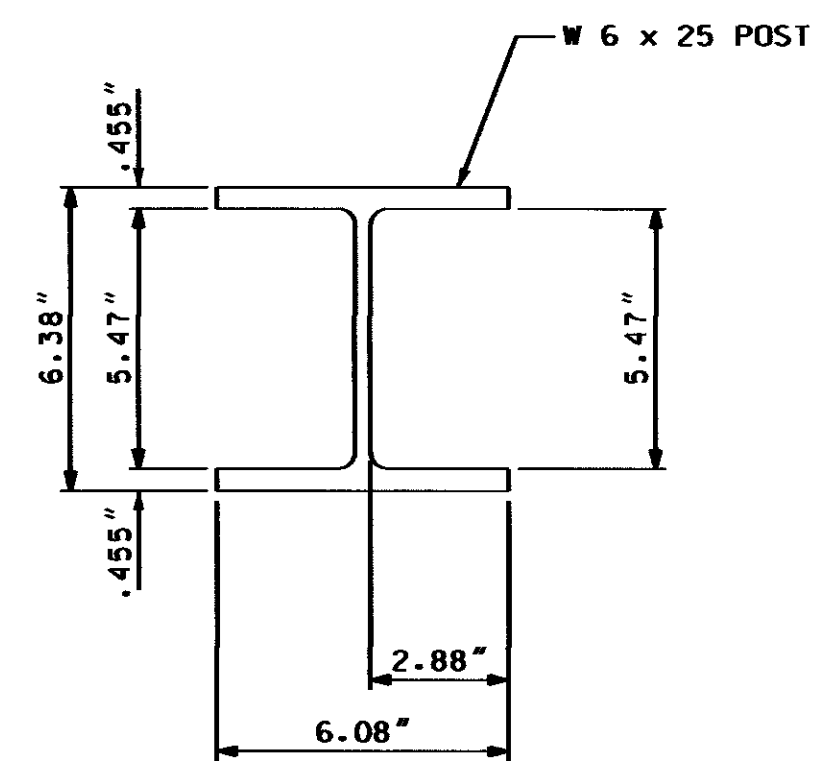


1" OPEN JOINT DETAIL

NOT TO SCALE

NOTE:

PLACE OPEN JOINT OVER P PERS
AND BETWEEN POSTS NEAR MIDSPANS.

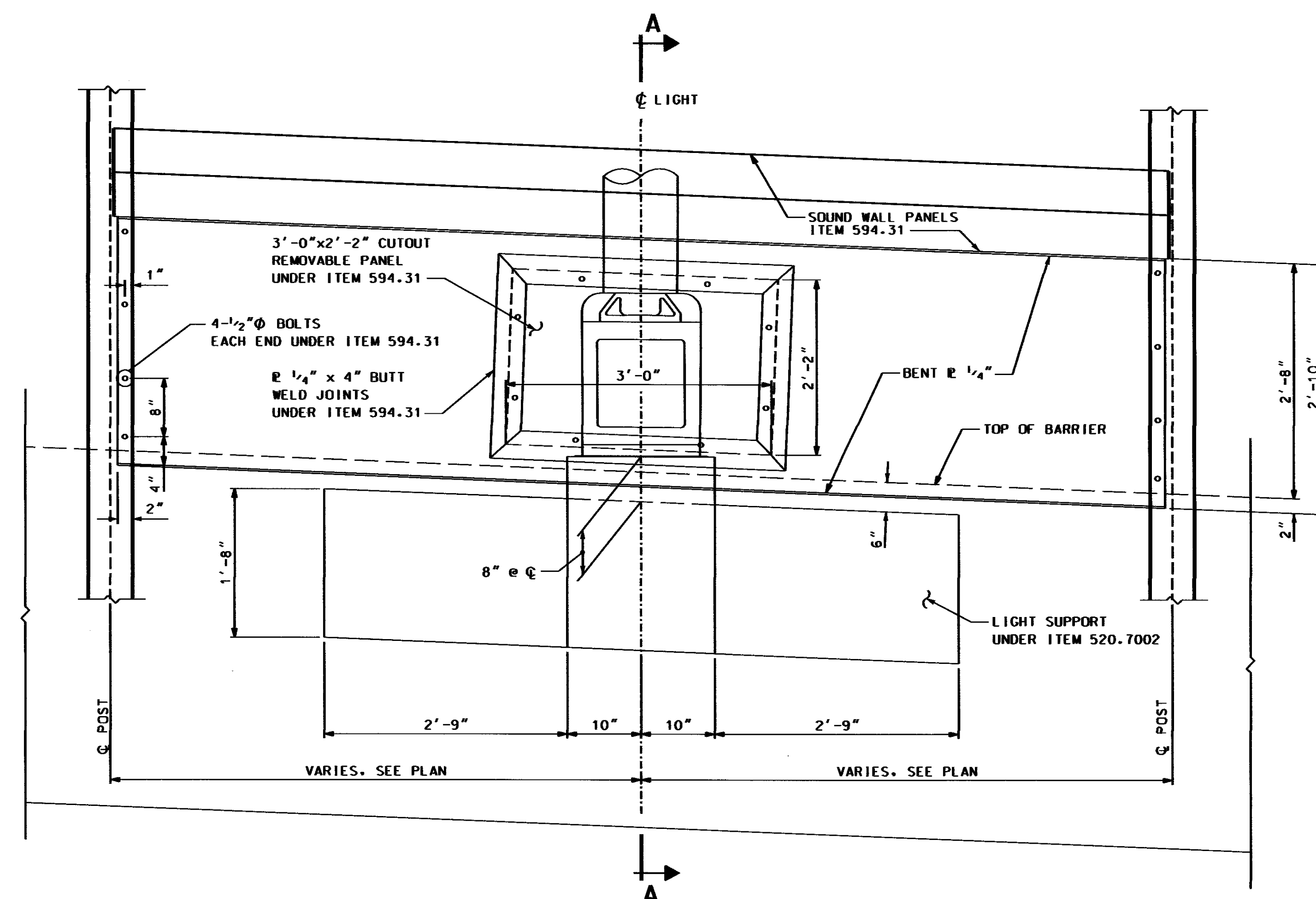


W 6 x 25 SECTION

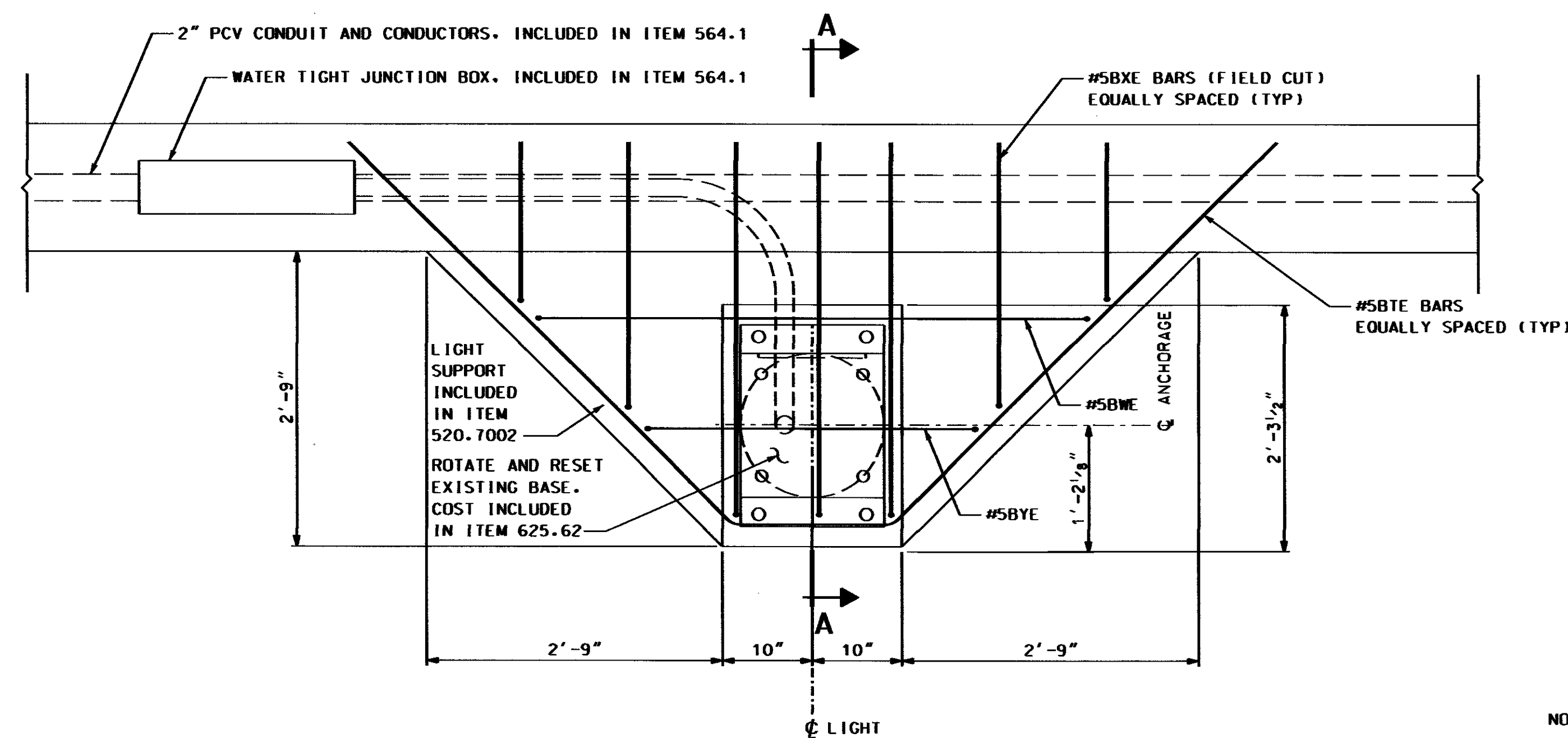
SCALE: 3" = 1'-0"

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE	DESIGNED	BY	DATE	CHECKED	BY	DATE	BRIDGE SHEET
XX	5760DeckDets1258_128	AS SHOWN	FLC	PMM	08/11	TD	TD	08/11	18 OF 33
			QUANTITIES	FLC	08/11	TD	TD	08/11	FILE NUMBER
			ISSUE DATE	TD	08/11	TD	TD	08/11	118-1-1
			REV. DATE						TOTAL SHEETS
									23
									43

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH	BRIDGE NO.		258/128	STATE PROJECT		15760		
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL							
SOUNDWALL POST ANCHOR DETAILS								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL		BY		DATE		BY		DATE	
		DESIGNED	PMM	08/11	CHECKED	TD	08/11	18 OF 33	
		DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER	
		QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1	
		ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS
		REV. DATE					23		43

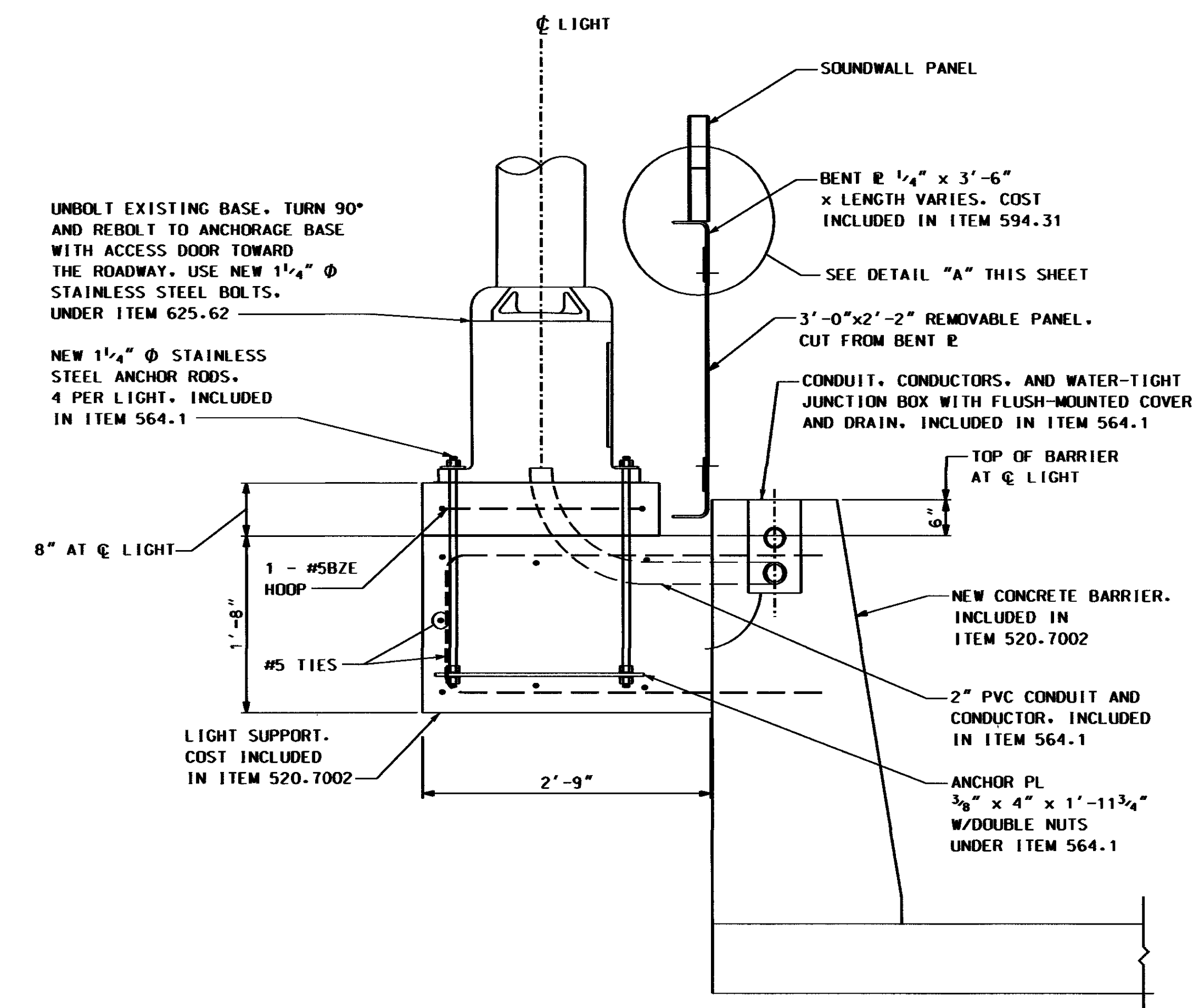


ELEVATION

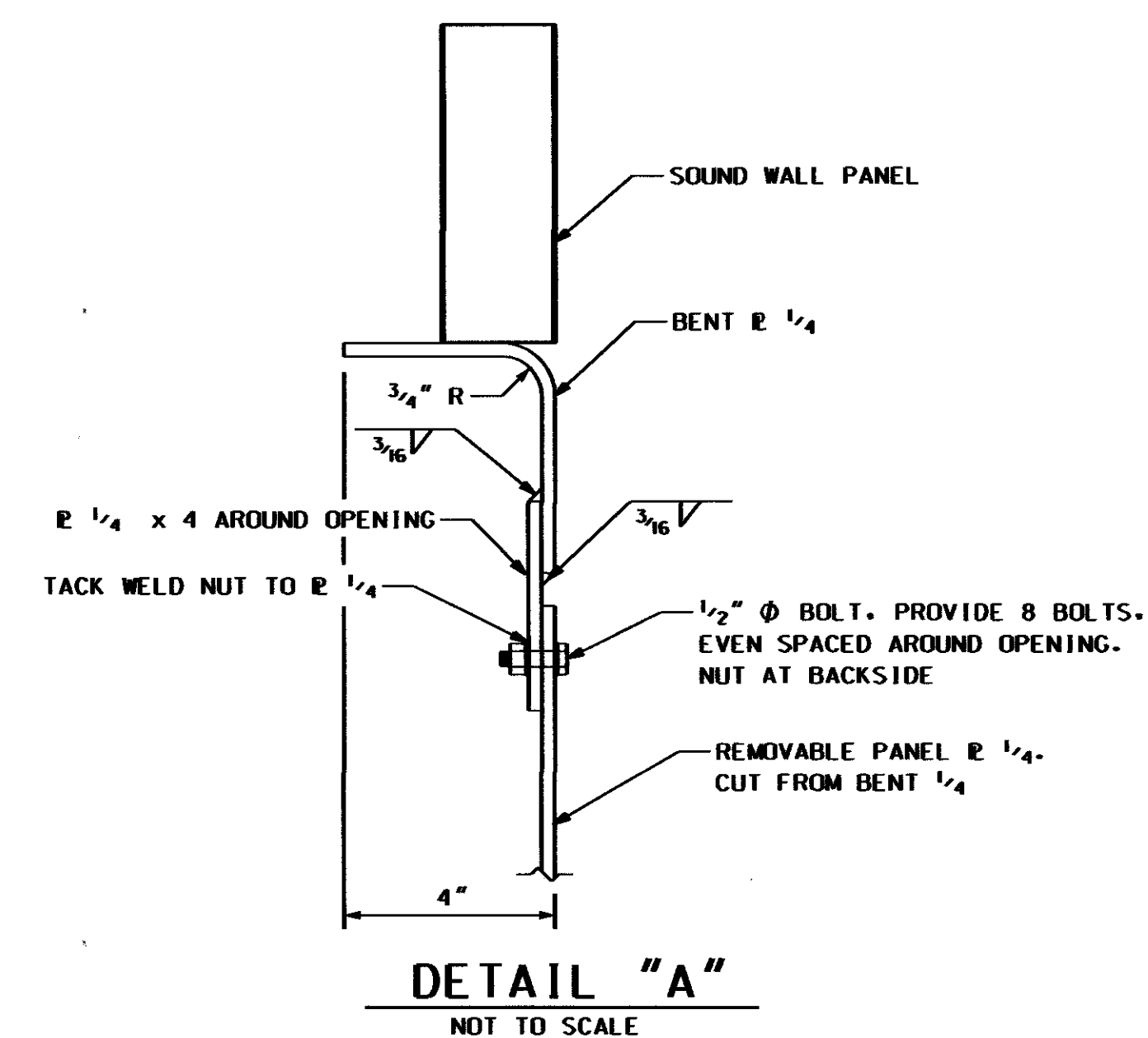


PLAN

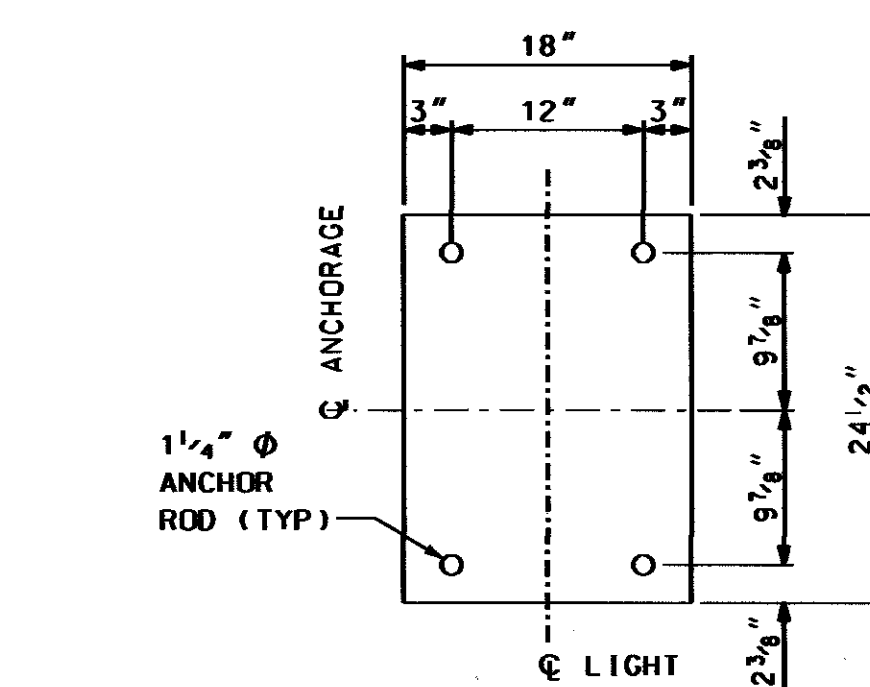
ROADWAY LIGHT SUPPORT AT SOUND WALL
SCALE: 1" = 1'-0"



SECTION A - A



DETAIL "A"
NOT TO SCALE



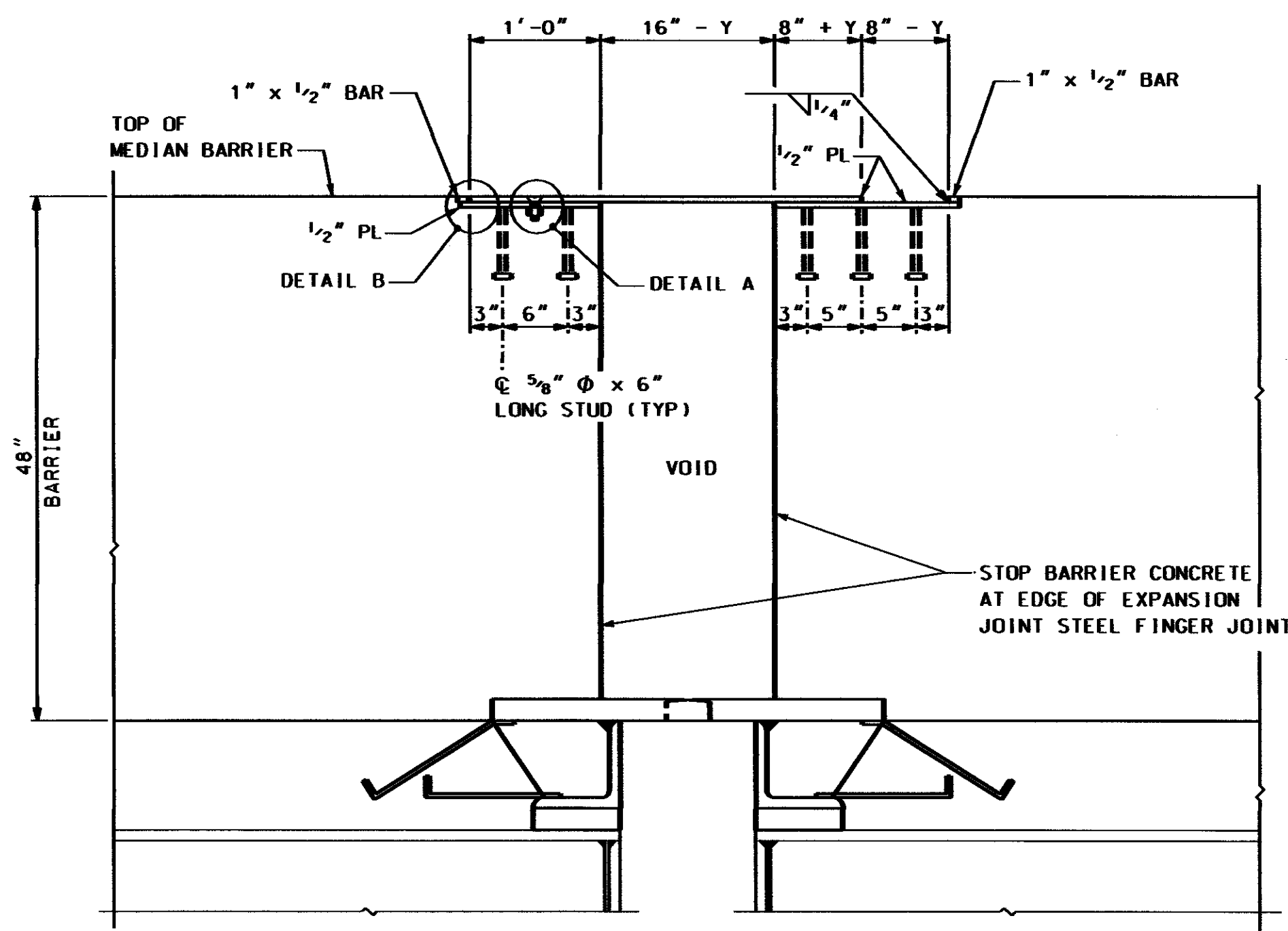
EXISTING ANCHORAGE DETAIL
SCALE: 1" = 1'-0"

NOTES:

1. SEE BRIDGE SHEET NO. 32 FOR DETAILS OF EXISTING LIGHTING.

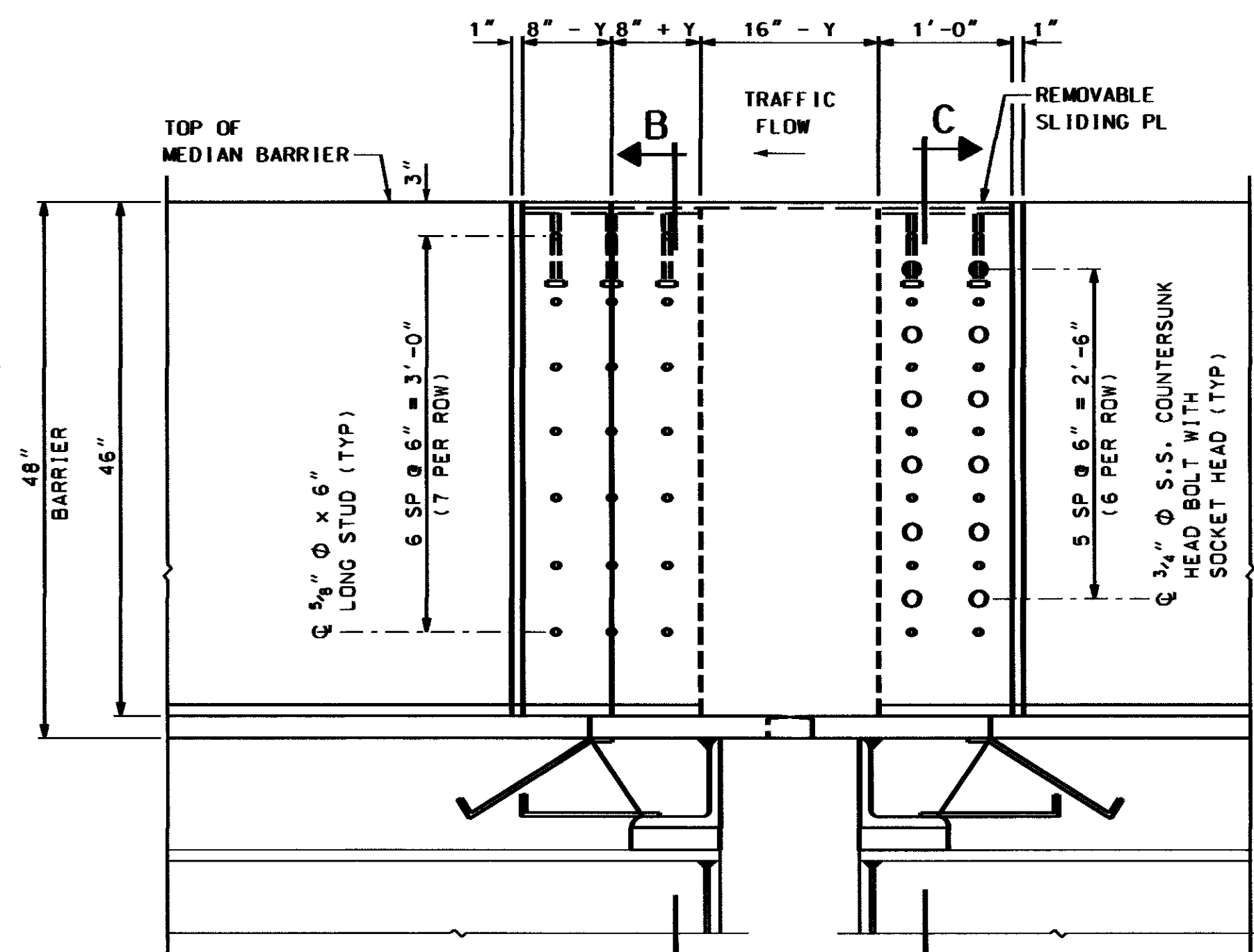
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckDet2258_128	AS SHOWN

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
LIGHT SUPPORT DETAILS										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED	TD	08/11	CHECKED	PMM	08/11	19 OF 33	
				DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER	
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1	
				ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS
				REV. DATE					24		43



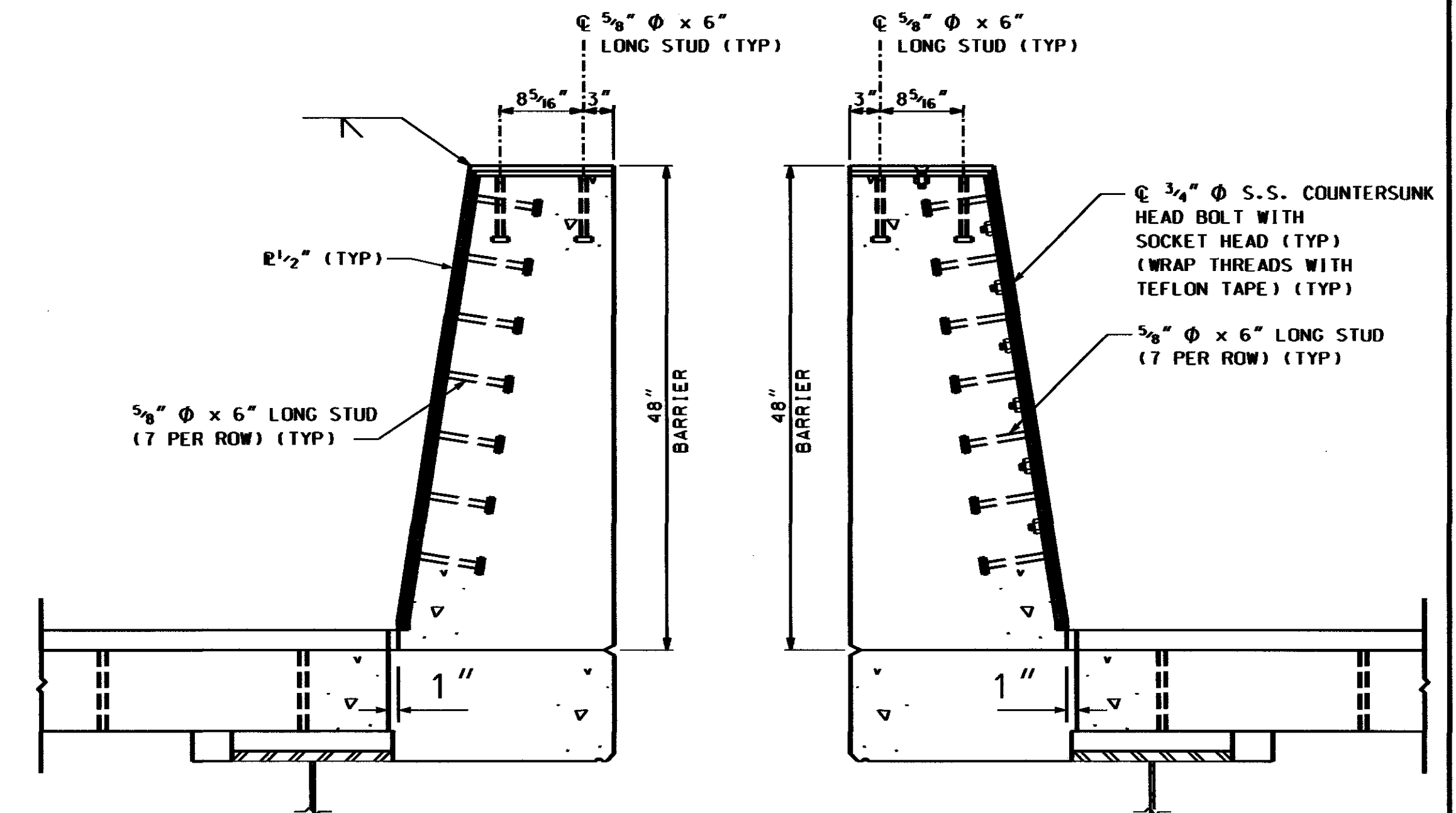
WEST ELEVATION

SCALE: 1" = 1'-0"



EAST ELEVATION

SCALE: 1" = 1'-0"



SECTION B-B

SCALE: 1" = 1'-0"

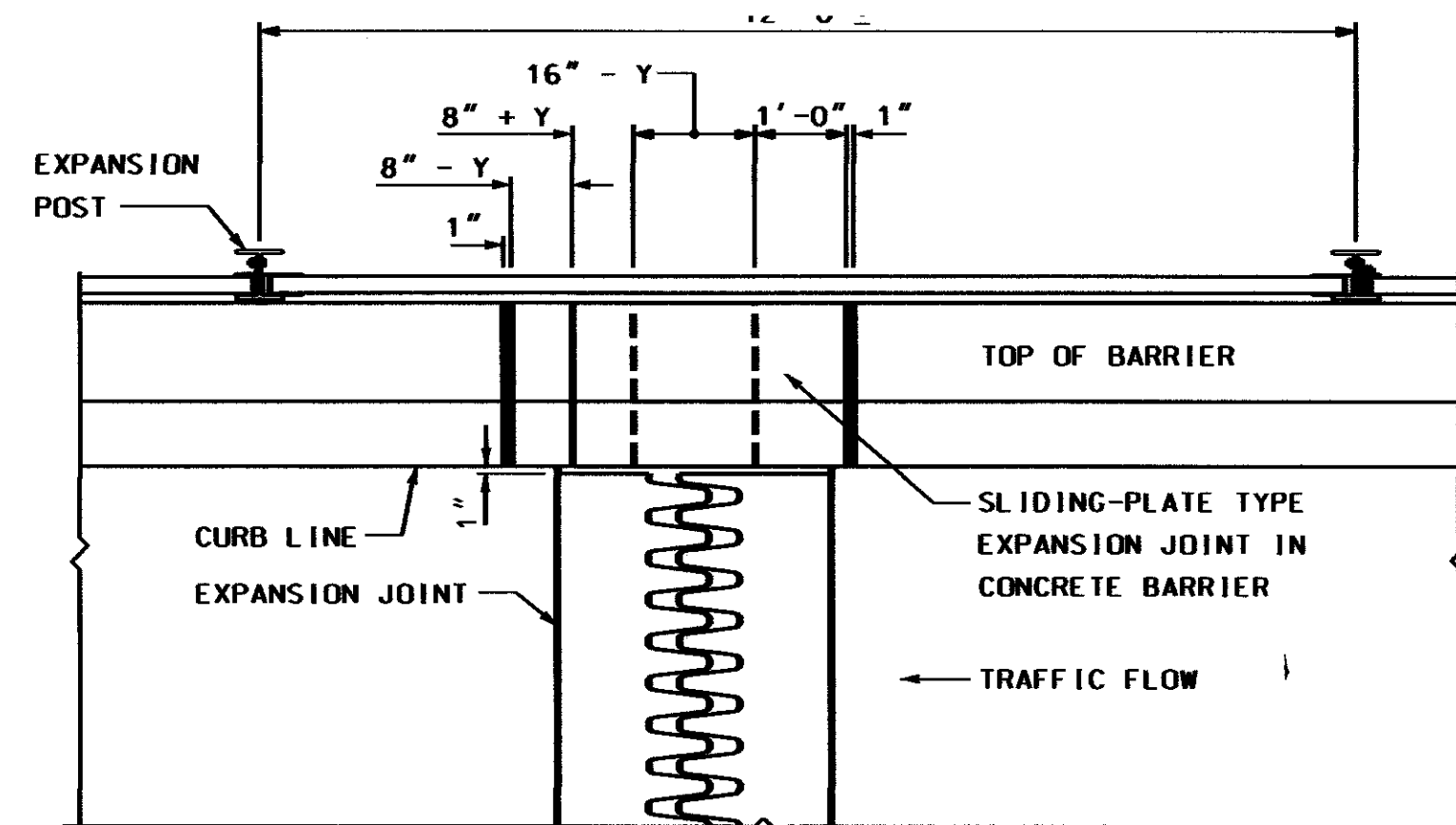
SECTION C-C

SCALE: 1" = 1'-0"

NOTES

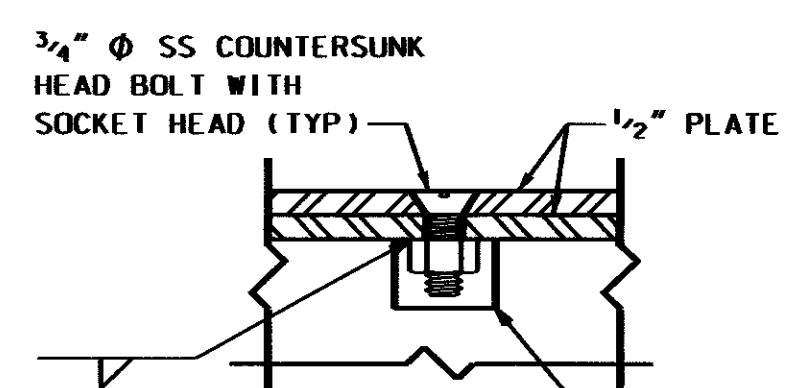
- (1) OVERLAP PLATES IN DIRECTION OF TRAFFIC FLOW TO AVOID SNAG HAZARD.
- (2) SET JOINT SPACING MATCHING TEMPERATURE AT INSTALLATION PER TABLE GIVEN.
- (3) CENTERLINE OF SOUND WALL POSTS SHALL BE NO CLOSER THAN 30" TO NEAREST EDGE OF CONCRETE BARRIER AT JOINT.
- (4) ALL PLATES, STUDS, BOLTS, CONNECTORS, SEALANT, ETC. SHALL BE SUBSIDIARY TO ITEM 520.7002, CONCRETE BRIDGE DECK.

SCHEDULE	
TEMPERATURE	Y
-30°F	-2 1/8"
45°F	0
+120°F	+2 1/8"



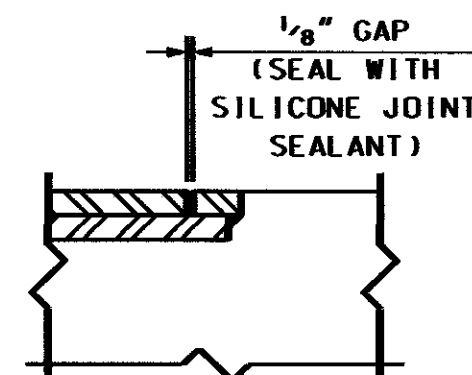
EXPANSION JOINT PANEL - PLAN VIEW

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



DETAIL A

NOT TO SCALE

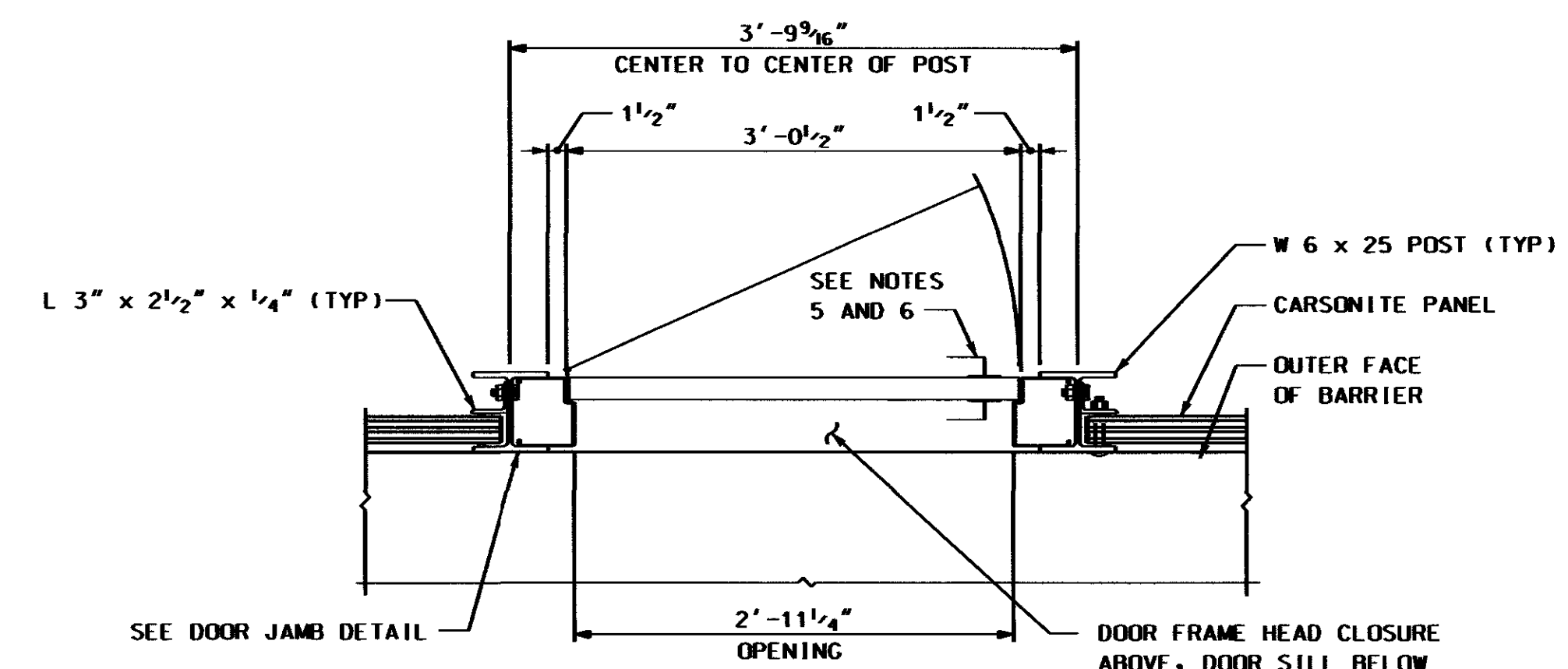
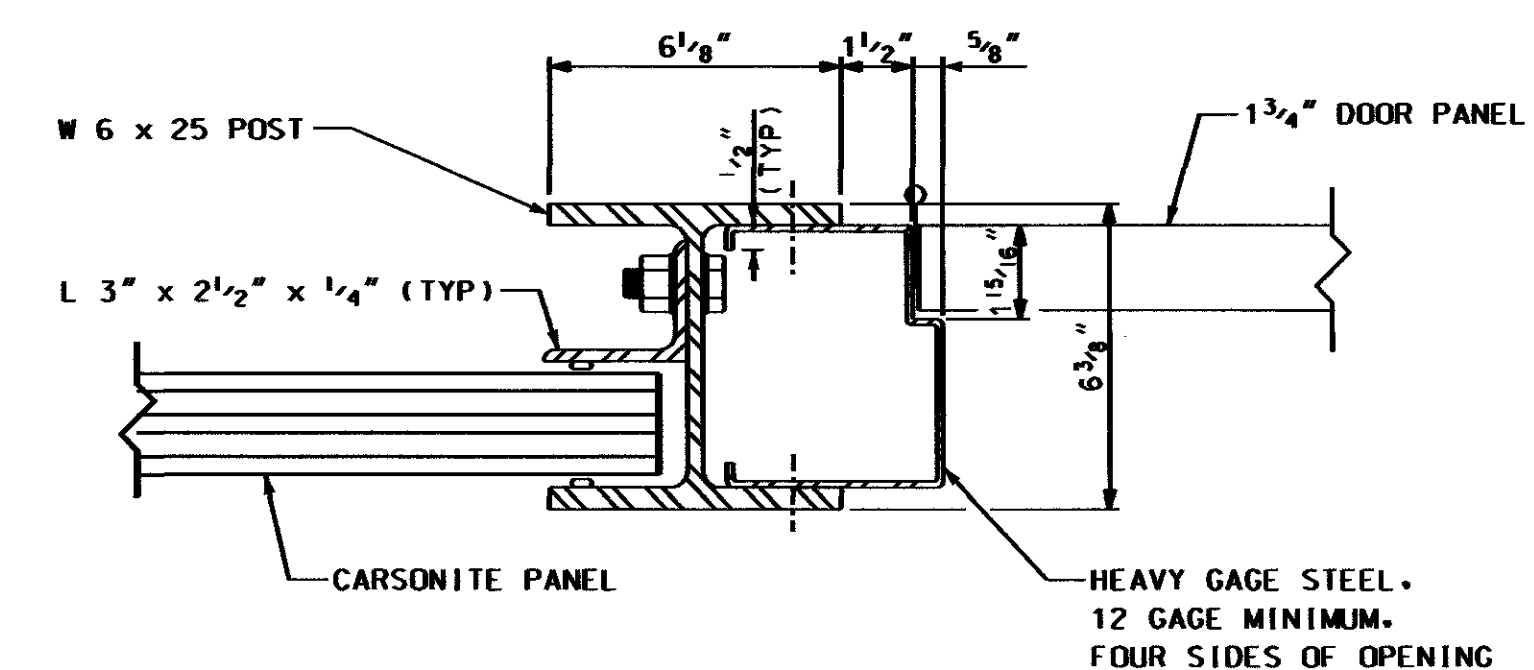
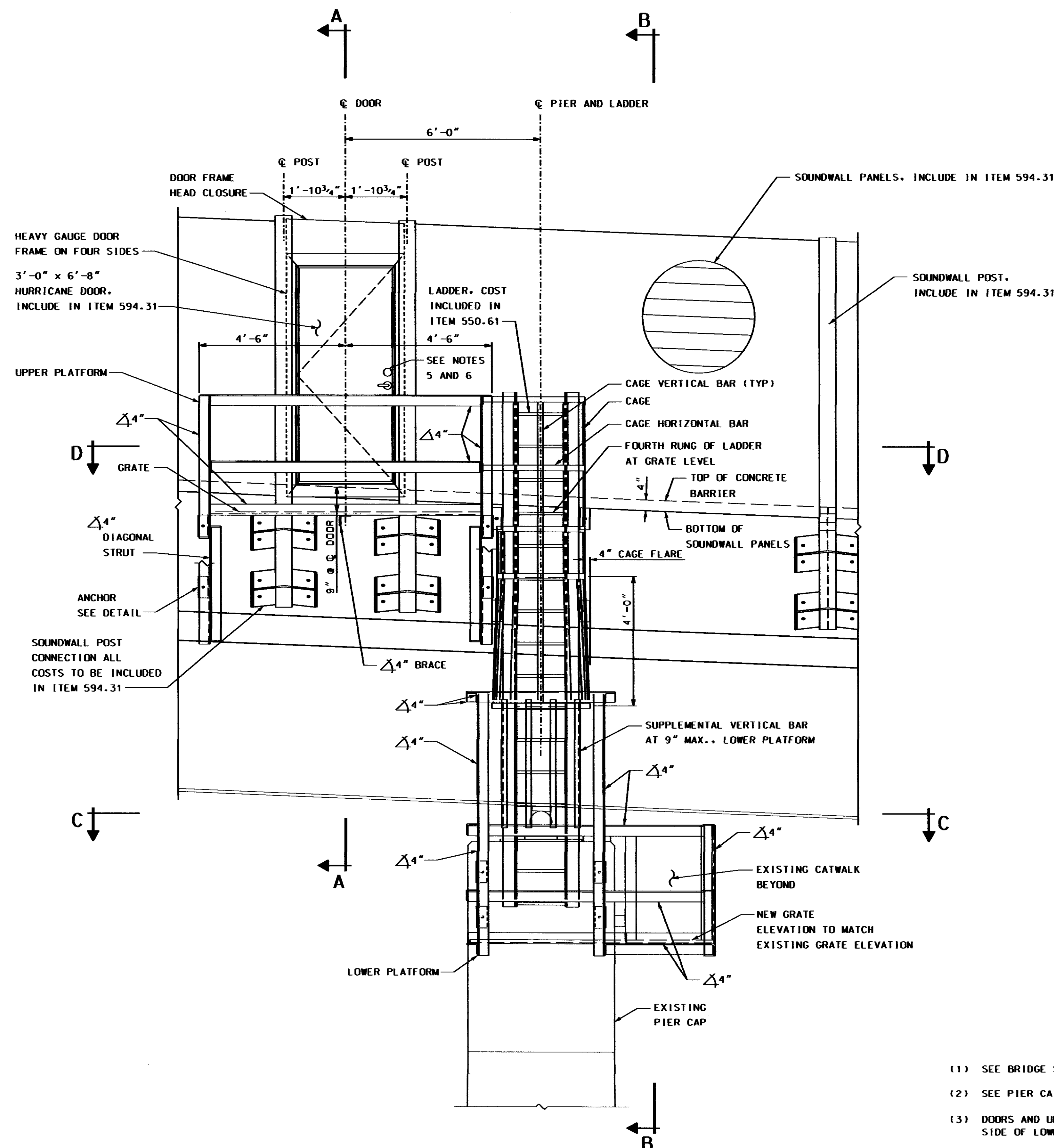


DETAIL B

NOT TO SCALE

STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
BARRIER EXPANSION JOINT DETAILS								BRIDGE SHEET		
REVISIONS AFTER PROPOSAL			BY	DATE	BY	DATE	20 OF 33			
			DESIGNED	PMM	08/11	CHECKED	TD	08/11		
			DRAWN	FLC	08/11	CHECKED	TD	08/11		
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11		
			ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.			
			REV. DATE				25			
							43			

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760EXTDets258_128	AS SHOWN

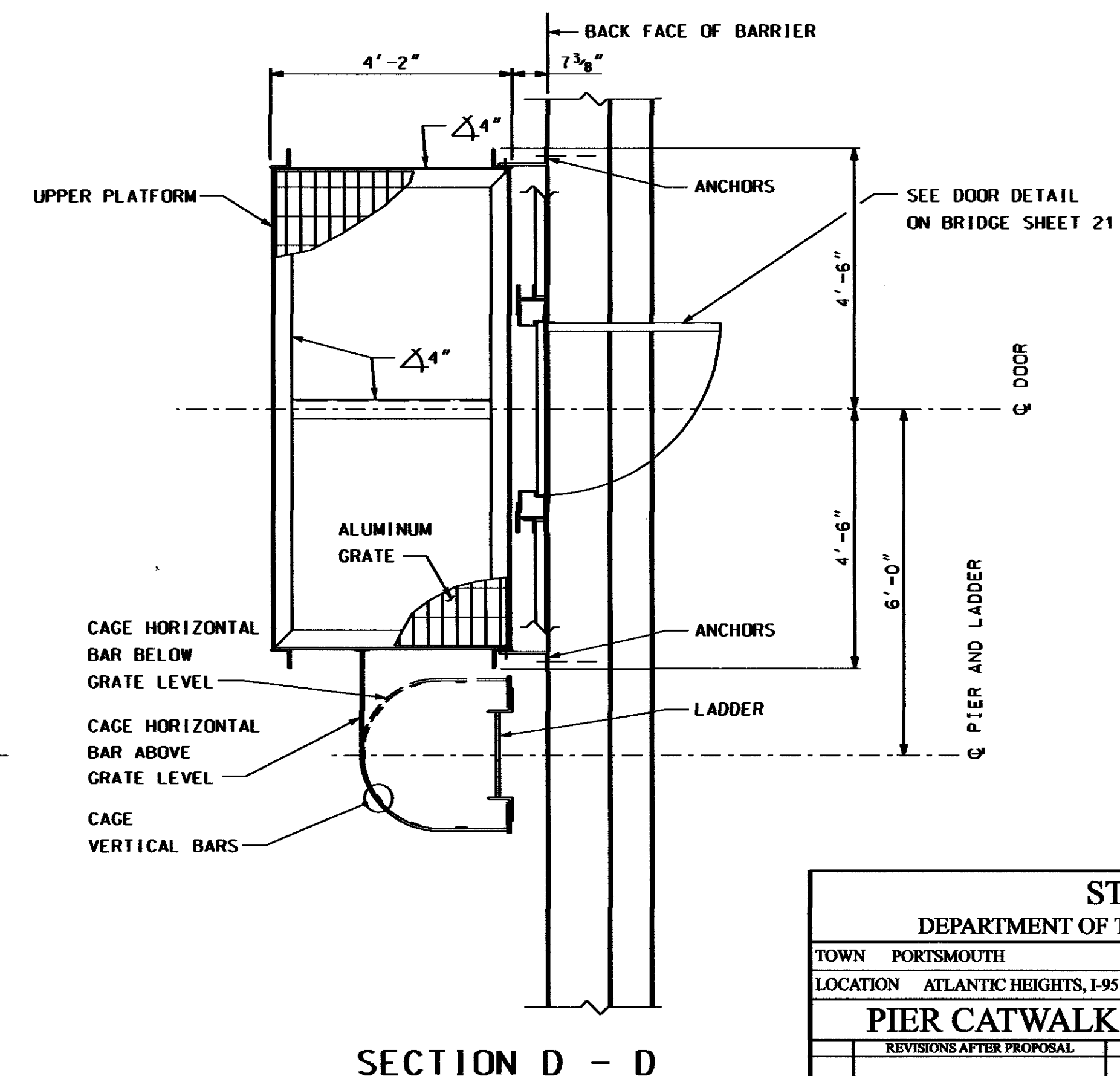
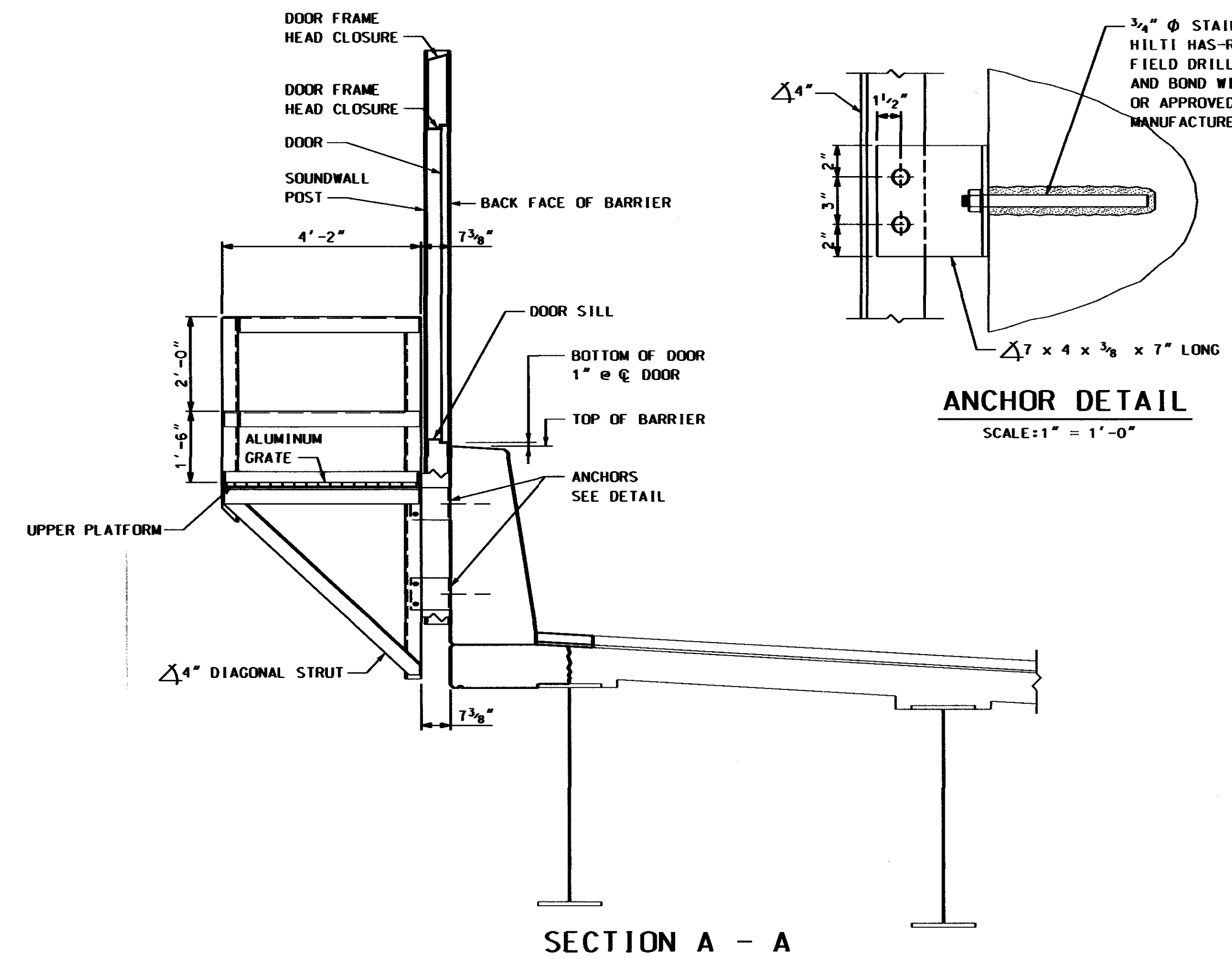
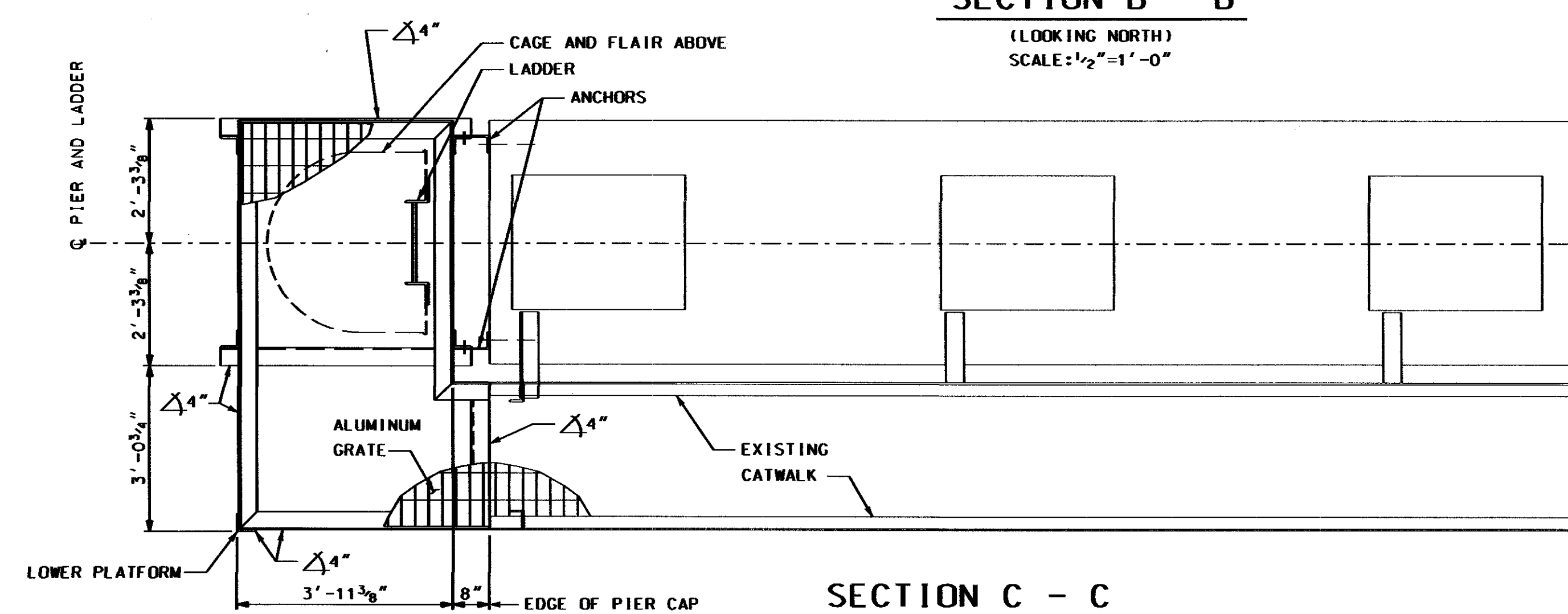
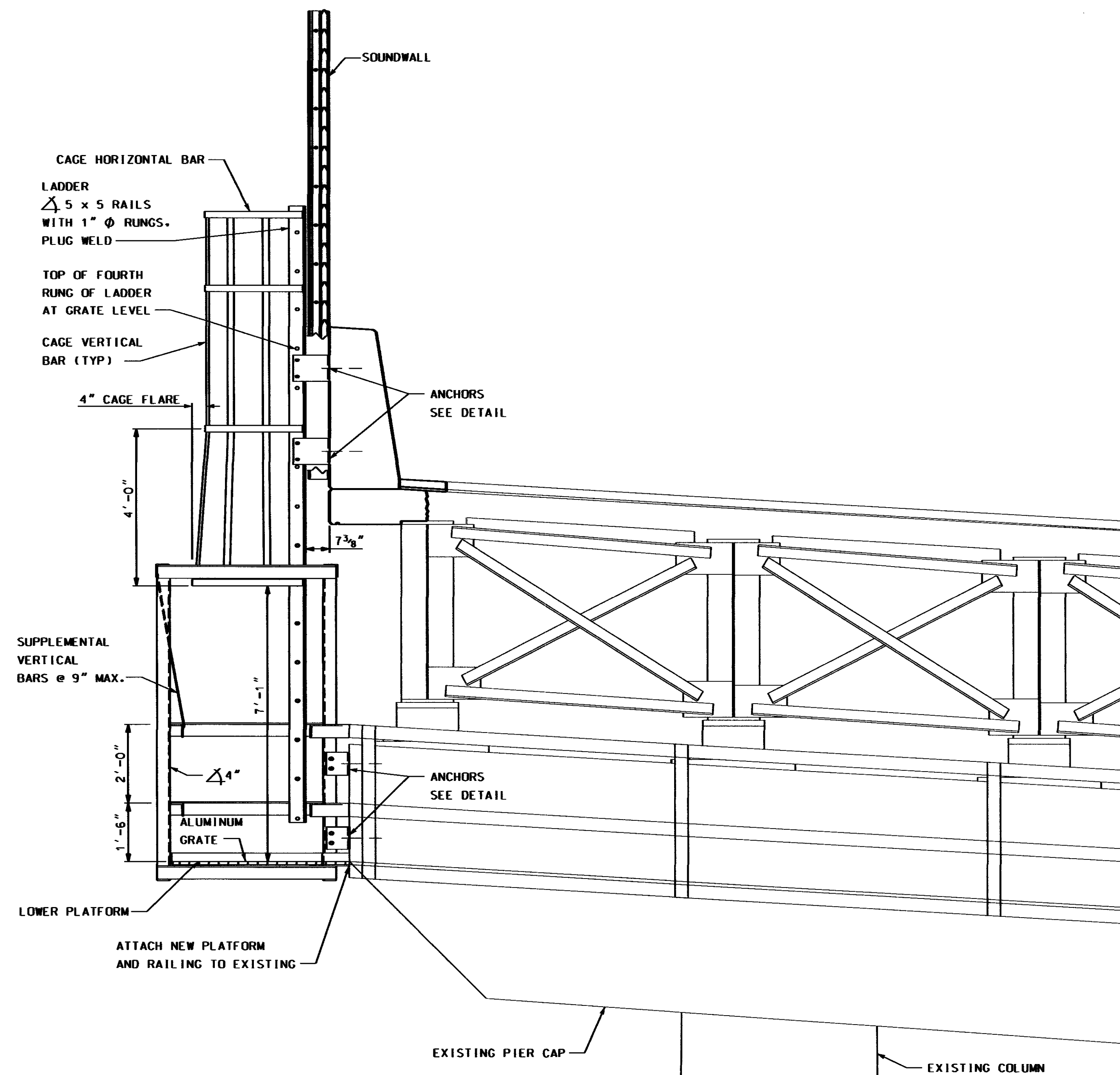


NOTES

- SEE BRIDGE SHEET 22 FOR SECTIONS.
- SEE PIER CATWALK ACCESS NOTES ON BRIDGE SHEET 2.
- DOORS AND UPPER PLATFORMS ARE TYPICALLY PLACED ON OPPOSITE SIDE OF LOWER PLATFORMS.
- AT PIER S15, PLACE DOOR AND UPPER PLATFORM ON SAME SIDE OF PIER AS LOWER PLATFORM, AWAY FROM RAILROAD TRACKS.
- PROVIDE DEADBOLT WITH KEY LOCK ON BOTH SIDES OF DOOR. KEY ALL LOCKS TO MATCH.
- PROVIDE NON-LOCKING LATCH HARDWARE WITH LEVER HANDLES ON BOTH SIDES OF DOOR.

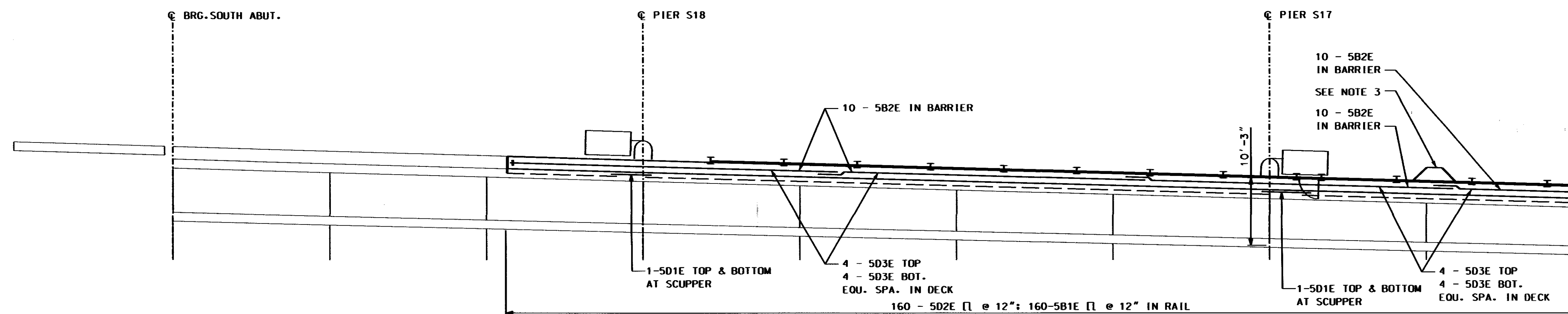
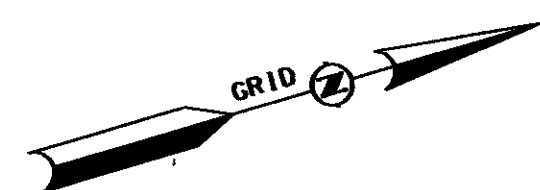
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760WallDet4258_128	AS SHOWN

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
PIER CATWALK ACCESS DETAILS - PART 1										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED	TD	08/11	CHECKED	PMM	08/11	21 OF 33	
				DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER	
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1	
				ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS
				REV. DATE					26		43



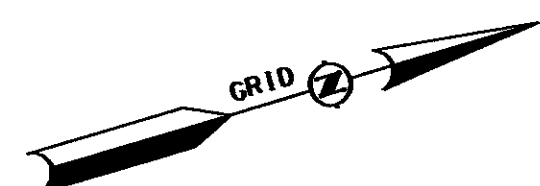
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
PIER CATWALK ACCESS DETAILS - PART 2									BRIDGE SHEET
REVISIONS AFTER PROPOSAL			BY	DATE	BY	DATE	22 OF 33		
			DESIGNED	TD	08/11	CHECKED	PMM	08/11	
			DRAWN	FLC	08/11	CHECKED	TD	08/11	
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	
			ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.		
			REV. DATE				27		
							TOTAL SHEETS		
							43		

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760WallDets6258_128	AS SHOWN

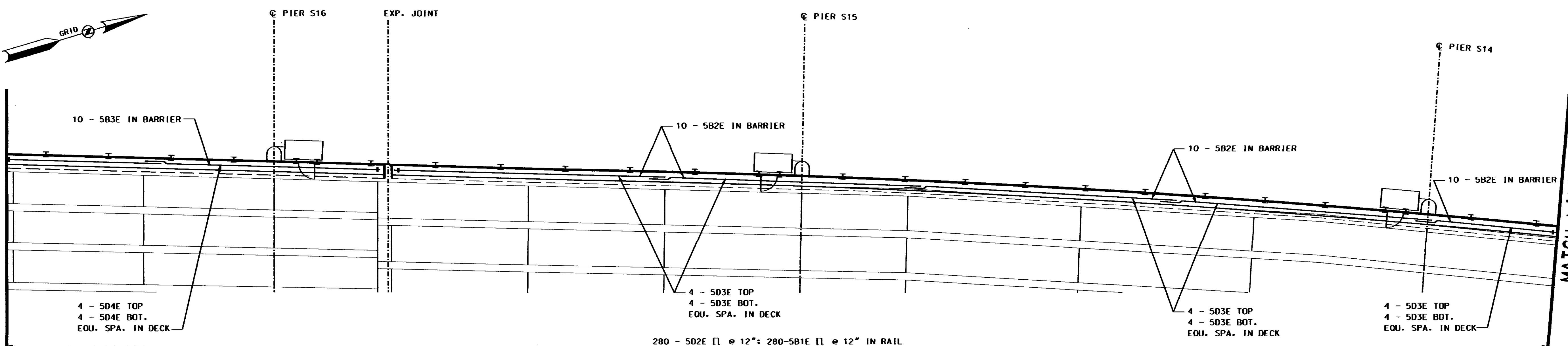


PLAN

SCALE: 1" = 10'



MATCH LINE
FOR CONTINUATION SEE PLAN ABOVE



PLAN

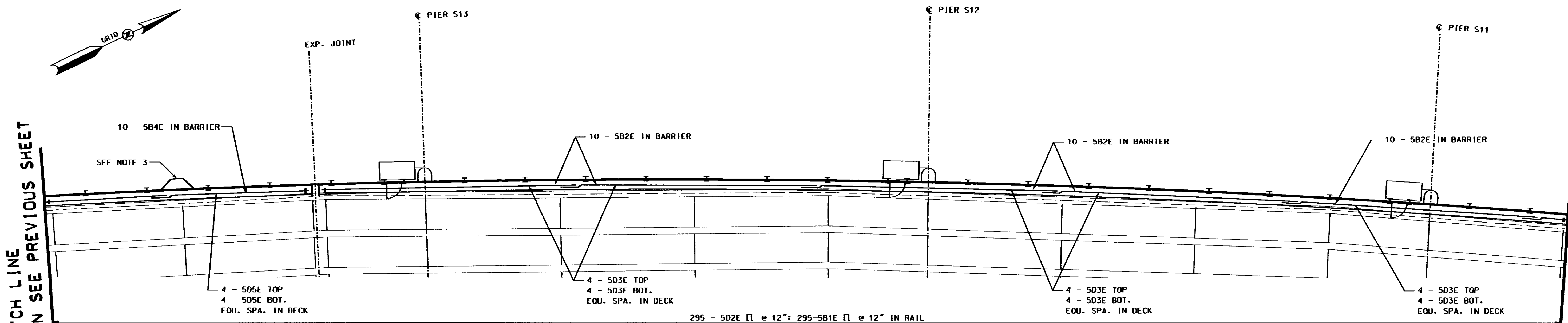
SCALE: 1" = 10'

NOTES

- (1) THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS AND ADJUST THE REINFORCING BAR LENGTHS ACCORDINGLY.
- (2) FIELD CUT LOGITUDINAL BARS AT OPEN JOINTS. IN BARRIERS. SCUPPERS. EXPANSION JOINTS. ETC.
- (3) SEE BRIDGE SHEET 19 FOR ADDITIONAL REINFORCEMENT AT LIGHT SUPPORTS.

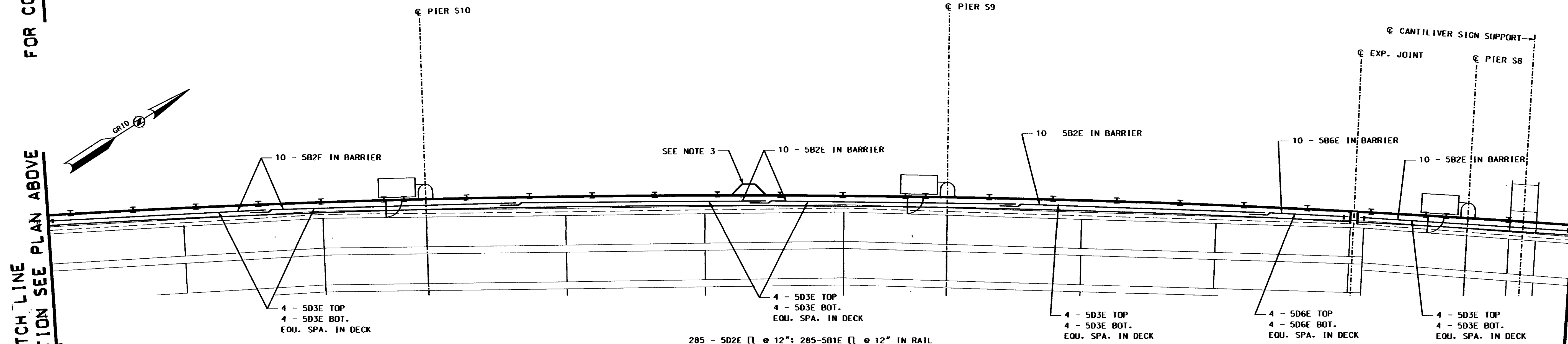
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckBars1258_128	AS NOTED

STATE OF NEW HAMPSHIRE																	
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN																	
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760							
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL															
REINFORCEMENT PLAN - PART 1										BRIDGE SHEET							
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE		23 OF 33					
				DESIGNED		TD		08/11		CHECKED		PMM		08/11		FILE NUMBER	
				DRAWN		FLC		08/11		CHECKED		TD		08/11		118-1-1	
				QUANTITIES		TLC		08/11		CHECKED		PMM		08/11		TOTAL SHEETS	
				ISSUE DATE				FEDERAL PROJECT NO.				SHEET NO.					
				REV. DATE								28				43	



PLAN

SCALE: 1" = 10'



PLAN

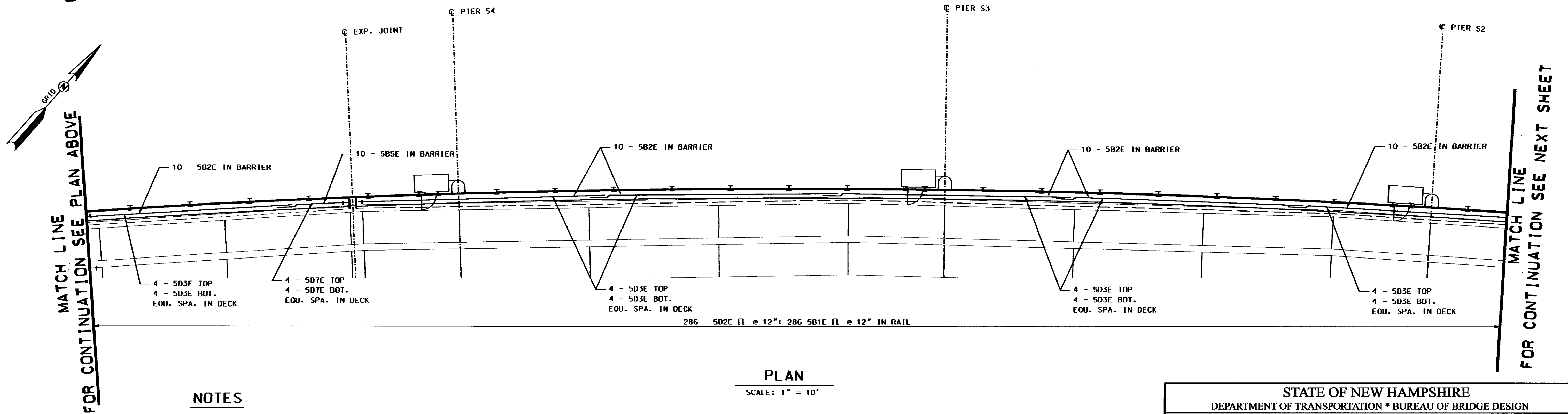
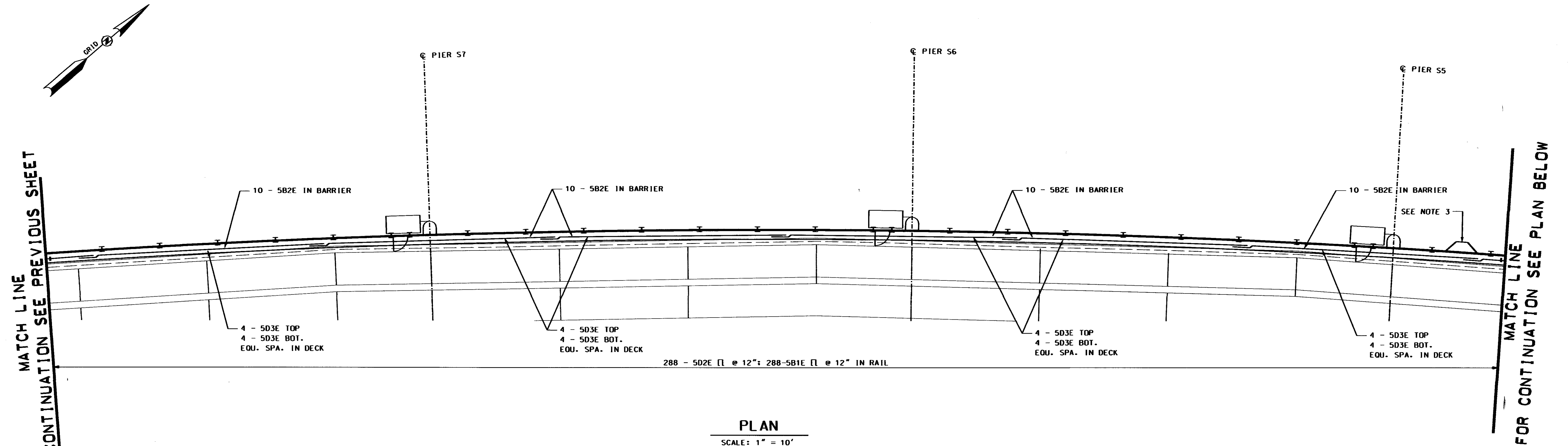
SCALE: 1" = 10'

NOTES

- (1) THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS AND ADJUST THE REINFORCING BAR LENGTHS ACCORDINGLY.
- (2) FIELD CUT LOGITUDINAL BARS AT OPEN JOINTS. IN BARRIERS, SCUPPERS, EXPANSION JOINTS, ETC.
- (3) SEE BRIDGE SHEET 19 FOR ADDITIONAL REINFORCEMENT AT LIGHT SUPPORTS.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760DeckBars2258_128	AS NOTED

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
REINFORCEMENT PLAN - PART 2										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED		TD 08/11		CHECKED		PMM 08/11	
				DRAWN		FLC 08/11		CHECKED		TD 08/11	
				QUANTITIES		TD 08/11		CHECKED		PMM 08/11	
				ISSUE DATE		FEDERAL PROJECT NO.				SHEET NO.	
				REV. DATE						29	
										24 OF 33	
										FILE NUMBER	
										118-1-1	
										TOTAL SHEETS	
										43	

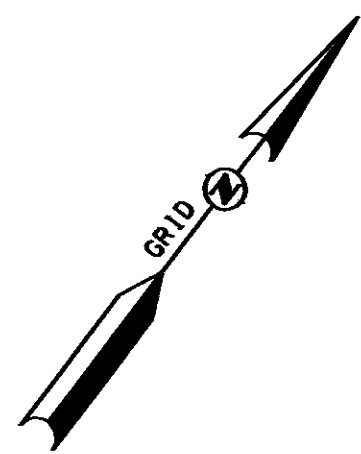


NOTES

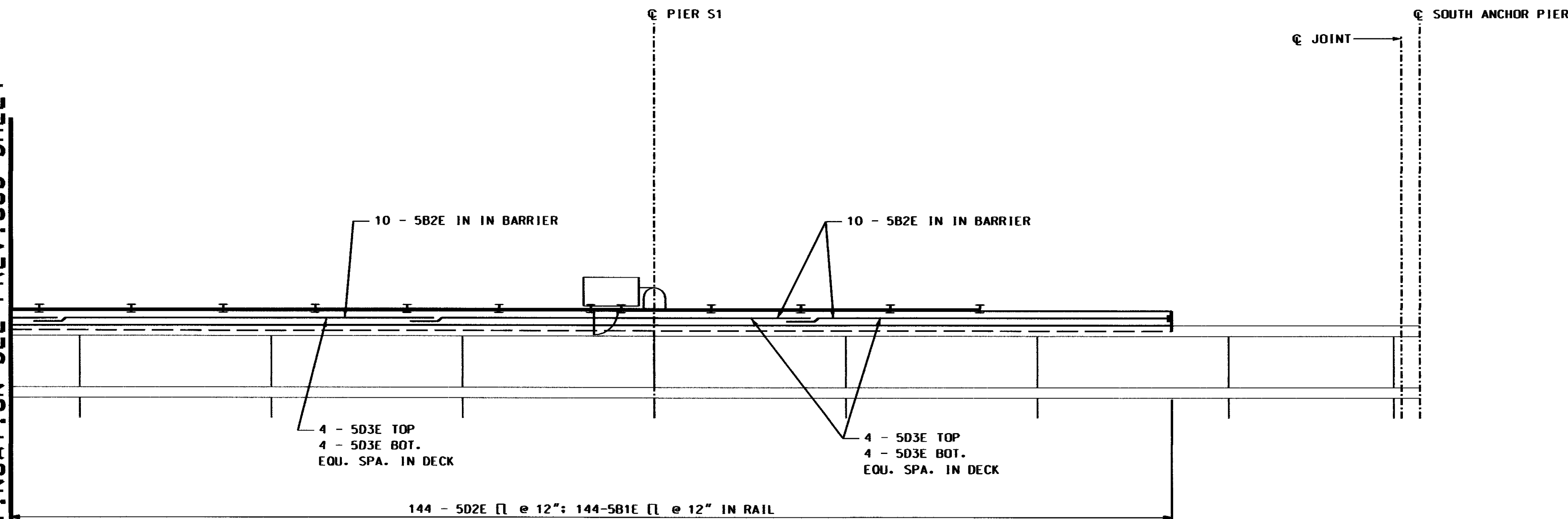
- (1) THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS AND ADJUST THE REINFORCING BAR LENGTHS ACCORDINGLY.
- (2) FIELD CUT LOGITUDINAL BARS AT OPEN JOINTS, IN BARRIERS, SCUPPERS, EXPANSION JOINTS, ETC.
- (3) SEE BRIDGE SHEET 19 FOR ADDITIONAL REINFORCEMENT AT LIGHT SUPPORTS.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckBarr3258_128	AS NOTED

STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
REINFORCEMENT PLAN - PART 3								BRIDGE SHEET		
		REVISIONS AFTER PROPOSAL			BY	DATE	BY	DATE	25 OF 33	
					DESIGNED	TD	08/11	CHECKED	PMM	08/11
					DRAWN	FLC	08/11	CHECKED	TD	08/11
					QUANTITIES	TD	08/11	CHECKED	PMM	08/11
					ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.
					REV. DATE					30
										43



MATCH LINE
FOR CONTINUATION SEE PREVIOUS SHEET



PLAN

SCALE: 1" = 10'

NOTES

- (1) THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS AND ADJUST THE REINFORCING BAR LENGTHS ACCORDINGLY.
- (2) FIELD CUT LOGITUDINAL BARS AT OPEN JOINTS. IN BARRIERS. SCUPPERS. EXPANSION JOINTS. ETC.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	5760DeckBars4258_128	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
REINFORCEMENT PLAN - PART 4								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL.			BY	DATE	BY	DATE	26 OF 33		
			DESIGNED	TD	08/11	CHECKED	PMM	08/11	FILE NUMBER
			DRAWN	FLC	08/11	CHECKED	TD	08/11	118-1-1
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	
ISSUE DATE			FEDERAL PROJECT NO.				SHEET NO.		TOTAL SHEETS
			REV. DATE					31	43

Mark	Size, #	Length	# Pieces	Type	A	B	C	D	E	F	G	H	J	K	R	O
D1	5	6.00	4	STR												EPOXY
D2	5	8.00	1738	N11		0.83	2.58	1.08	2.67	0.83		2.58		0.42		EPOXY
D3	5	50.00	296	STR												EPOXY
D4	5	45.00	88	STR												EPOXY
D5	5	32.00	88	STR												EPOXY
D6	5	20.00	8	STR												EPOXY
D7	5	11.00	8	STR												EPOXY

SECTION SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	0	37296	0	0	0	0	0	0	0	0	37296
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0

Mark	Size, #	Length	# Pieces	Type	A	B	C	D	E	F	G	H	J	K	R	O
B1	5	8.83	1738	N12		0.50	3.50	0.75	3.58	0.50		3.50		0.58		EPOXY
B2	5	50.00	370	STR												EPOXY
B3	5	45.00	10	STR												EPOXY
B4	5	32.00	10	STR												EPOXY
B5	5	11.00	10	STR												EPOXY
B6	5	20.00	10	STR												EPOXY
BH	5	5.91	636	S4	0.83	1.25	1.75	1.25				0.83				EPOXY
BT	5	11.50	12	N10		5.08	1.33	5.08					3.58	3.58	3.58	EPOXY
BW	5	14.16	4	T1	0.5	5.33	1.25	5.33	1.25			0.5				EPOXY
BX	5	8.41	28	I7		3.58	1.25	3.58							FIELD CUT	EPOXY
BY	5	10.50	4	T1	0.5	3.50	1.25	3.5	1.25			0.5				EPOXY
BZ	5	7.16	4	T1	0.5	1.83	1.25	1.83	1.25			0.5				EPOXY

SECTION SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	0	40877	0	0	0	0	0	0	0	0	40877
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0

GRAND SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	0	78173	0	0	0	0	0	0	0	0	78173
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0

NOTES:

1. FIGURES IN CIRCLE SHOW TYPE OF BEND.

2. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31-94 (ASTM A615).

3. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICES SEE CURRENT (1990) CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", P. 6-4.

4. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.

5. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.

6. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.

7. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.

8. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

DEMOTES BARS TO BE CUT IN FIELD, AS REQUIRED.

A DEMOTES BARS TO BE BENT IN FIELD.

RECOMMENDED END HOOKS

ALL GRADES (in.)

BAR SIZE	D(Ø)	180° HOOKS	90° HOOKS
		A or G	J
#3	2 1/4	5	3
#4	3	6	4
#5	3 3/4	7	5
#6	4 1/2	8	6
#7	5 1/4	10	7
#8	6	11	8
#9	9 1/2	15	11 3/4
#10	10 3/4	17	13 1/4
#11	12	19	14 3/4
#14	18 1/4	27	21 3/4

STIRRUP & TIE HOOK DIMENSIONS

GRADES 40-50-60 ksi

BAR SIZE	D(Ø)	90° HOOKS	135° HOOKS
		A or G	A or G
#3	1 1/2	4	4
#4	2	4 1/2	4 1/2
#5	2 1/2	6	5 1/2
#6	4 1/2	12	7 3/4
#7	5 1/4	14	9
#8	6	16	10 1/4

STANDARD INDUSTRY BENDS, STIRRUPS, & TIES

GRADES 40-50-60 ksi

NOTE: D = finished inside bend d of hook.

See 1997 CRSI Manual p6-3&4.

For additional data on standard bar bends not shown on this sheet see 1997 CRSI Manual p6-3&4.

STANDARD N.H. & SPECIAL BENDS

GRADES 40-50-60 ksi

ASTM STANDARD REINFORCING BARS

BAR SIZE	WEIGHT LBS.	NOM. DIMEN. DIAM. in.	CROSS SECT. AREA in²
#3	0.376	0.375	0.11
#4	0.668	0.500	0.20
#5	1.043	0.625	0.31
#6	1.502	0.750	0.44
#7	2.044	0.875	0.60
#8	2.670	1.000	0.79
#9	3.400	1.128	1.00
#10	4.303	1.270	1.27
#11	5.313	1.410	1.56
#14	7.650	1.693	2.25
#18	13.600	2.257	4.00

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN

TOWN: PORTSMOUTH

LOCATION: ATLANTIC HEIGHTS 1.95 HIGH LEVEL BRIDGE SOUNDWALL

BRIDGE NO. 250728

STATE PROJECT 15760

REINFORCEMENT SCHEDULE

BY: TD

DATE: 08/11

CHECKED: PMM

DATE: 08/11

REVISIONS AFTER PROPOSAL

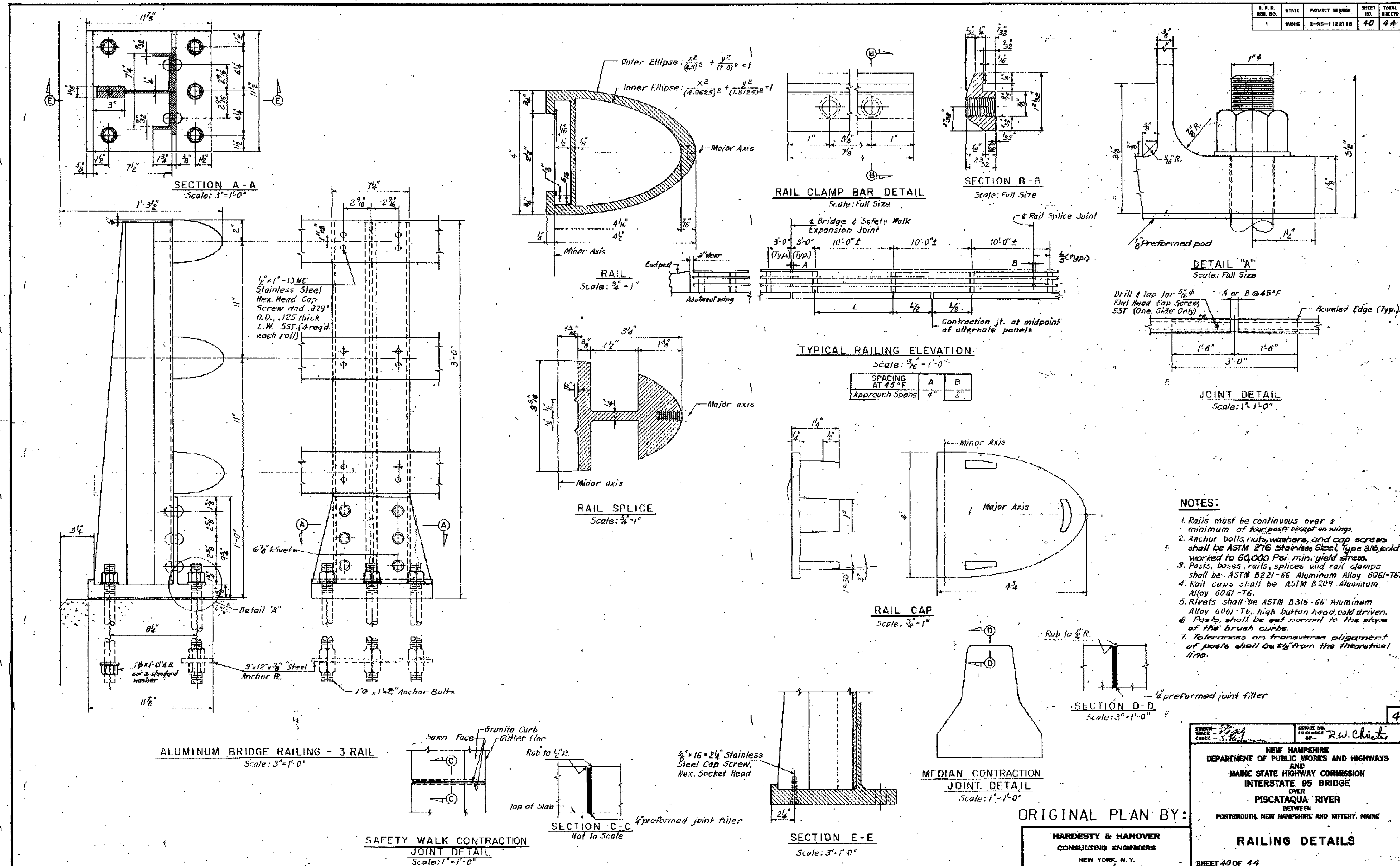
27 of 33

FILE NO. 11B-1-1

FEDERAL PROJECT NUMBER

TOTAL SHEET 32 of 43

SDR PROCESSED		FLC	DATE	REVISIONS AFTER PROPOSAL			
NEW DESIGN	TO		DATE	08/11			
SHEET CHECKED	PMM		DATE	08/11			
AS BUILT DETAILS			DATE				

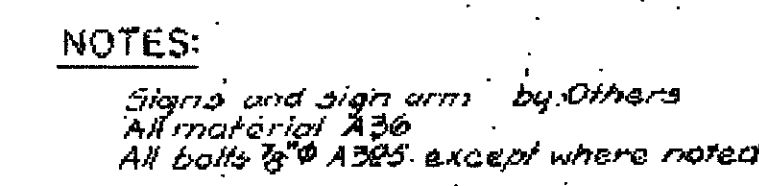


NOTES

1. THIS DRAWING IS REPRODUCED FROM AS-BUILT DRAWING NO. 40 OF 44. PROJECT NO. 1-95-1(22)16 CONTRACT NO. 4. 3. THIS SHEET IS REPRODUCED AT REDUCED SIZE AND SCALES ABOVE DO NOT APPLY.
2. EXISTING RAIL, SPLICE, END CAPS, ETC SHALL BE USED AS NEEDED AT TRANSITIONS FROM NEW CONCRETE BARRIER TO EXISTING RAIL.

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
BRIDGE RAILING DETAILS			
DCN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
15760asb11_Ra11258.128	15760	33	43

SDR PROCESSED	FLC	DATE	08/11	REVISIONS AFTER PROPOSAL			
NEW DESIGN	TD	DATE	08/11	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED	PMM	DATE	08/11				
AS BUILT DETAILS							



DESIGN: *E.E. Thompson*
TRACE: *M. J. Chenev*
CHECK: *S. J. [unclear]*

BRIDGE NO. _____
N. CHANGE
OF: *R.W. Christie*

NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
AND
MAINE STATE HIGHWAY COMMISSION
INTERSTATE 95 BRIDGE
OVER
PISCATAQUA RIVER
BETWEEN
PORTSMOUTH, NEW HAMPSHIRE AND UTTERY, MAINE

SIGN SUPPORTS

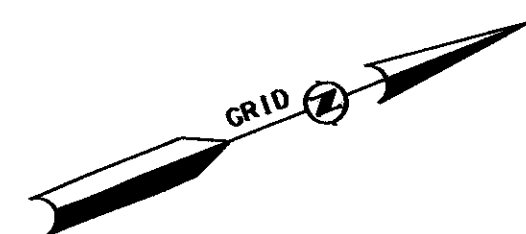
SHEET 23 OF 23

NOTES

1. EXISTING SIGN SUPPORT SHOWN IS LOCATED AT STATION 534+81 LT. JUST NORTH OF PIER 58.
2. THIS DRAWING IS REPRODUCED FROM AS-BUILT DRAWING NO. 23 OF 23, PROJECT NO. 1-95-1(22)16 CONTRACT NO. 3.
3. EXISTING FRAMING SHOWN IS BELIEVED TO BE SUITABLE FOR USE IN SUPPORTING NEW SIGN STRUCTURE.
4. CONTRACTOR SHALL SUBMIT DESIGN FORCES AT POST BASES FROM THE NEW SIGN STRUCTURE, TO THE ENGINEER FOR VERIFICATION OF THE EXISTING FRAMING.
5. THIS COORDINATION WORK SHALL BE SUBSIDIARY TO ITEM 615-20001.
6. THIS SHEET IS REPRODUCED AT REDUCED SIZE AND SCALES ABOVE DO NOT APPLY.

BRIDGE SHEET 29 OF 33

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
SIGN SUPPORT DETAILS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
157600mb(1) - 550p050-128	15760	34	43



NEW GALV. STEEL
GOOSENECK CONNECTED TO
EXISTING GALV. CONDUIT
AND NEW JUNCTION BOX

STA. 524+76.75 57.15' LT
EXTEND EXISTING 3 - #6
CONDUCTORS 15' CONTINUOUS
INTO NEW JUNCTION BOX

EXISTING METAL
CONDUIT AND
3 - #6 CONDUCTORS

EXISTING
BRUSH CURB

NEW JUNCTION BOX.
GROUND GALV. STEEL
CONDUIT TO 1 - #6
GROUND WIRE EXTENDING
NORTH. SEE ELEVATION E-E

CONDUIT EXPANSION
COUPLING (TYP)

JUNCTION BOX
IN BARRIER

1' - 9 1/2" BARRIER

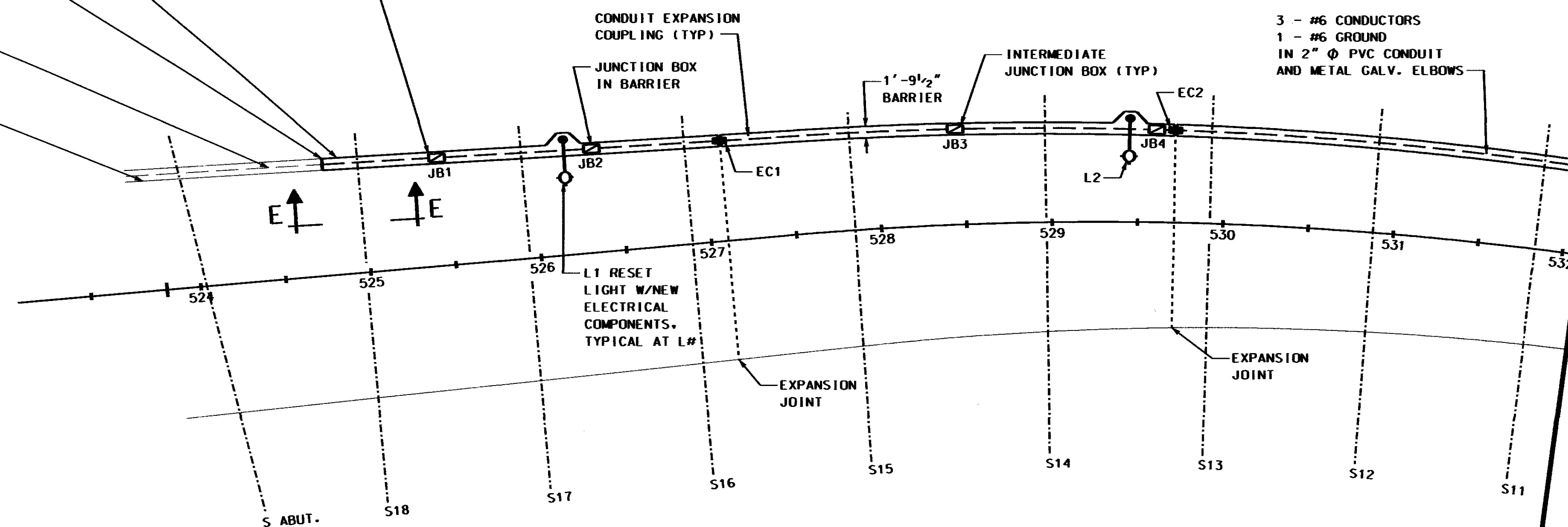
INTERMEDIATE
JUNCTION BOX (TYP)

3 - #6 CONDUCTORS
1 - #6 GROUND
IN 2" Ø PVC CONDUIT
AND METAL GALV. ELBOWS

MATCH LINE
FOR CONTINUATION SEE NEXT SHEET

LEGEND

- ▣ JUNCTION BOX, JB#
- EXPANSION COUPLING, EC#
- RESET LUMINAIRE
WITH NEW ELECTRICAL
COMPONENTS, L#
- NEW 2" PVC CONDUIT
W/CONDUCTORS AND GROUND
- EXISTING METAL CONDUIT
W/CONDUCTORS BUT NO GROUND WIRE



SCHEMATIC BRIDGE LIGHTING LAYOUT

NOT TO SCALE

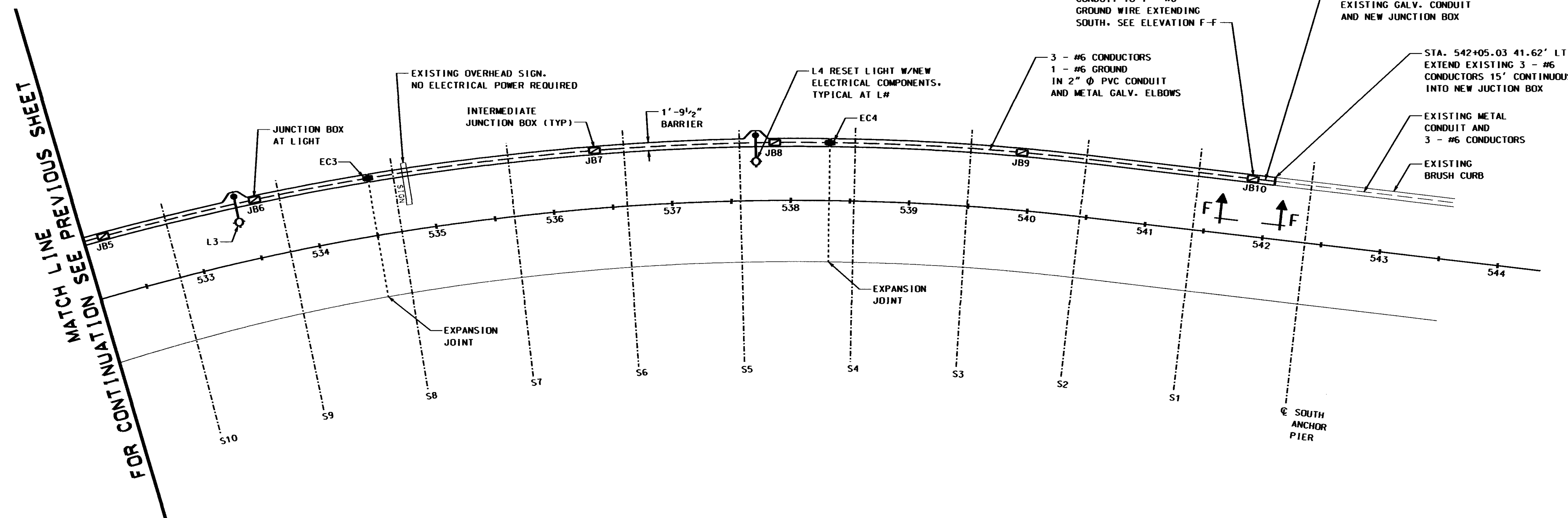
NOTES

- (1) ALL WORK SHOWN IS INCLUDED IN ITEM 564.1, BRIDGE LIGHTING SYSTEM.
- (2) RE-ENERGIZE EXISTING LIGHTING IN WORK ZONE AND MAKE SAFE. DO NOT AFFECT OPERATION OF NAVIGATION LIGHTING ON MAIN RIVER BRIDGE.
- (3) SEE BRIDGE SHEET 33 FOR ELEVATION E-E, JUNCTION BOX, AND EXPANSION COUPLING DETAILS.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760Lt_plan1258_128	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760
LOCATION	ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL								
LIGHTING PLAN - PART 1									BRIDGE SHEET
REVISIONS AFTER PROPOSAL			BY		DATE		BY		DATE
			DESIGNED	TD	08/11	CHECKED	PMM	08/11	30 of 33
			DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER
			QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1
			ISSUE DATE		FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
			REV. DATE					35	43

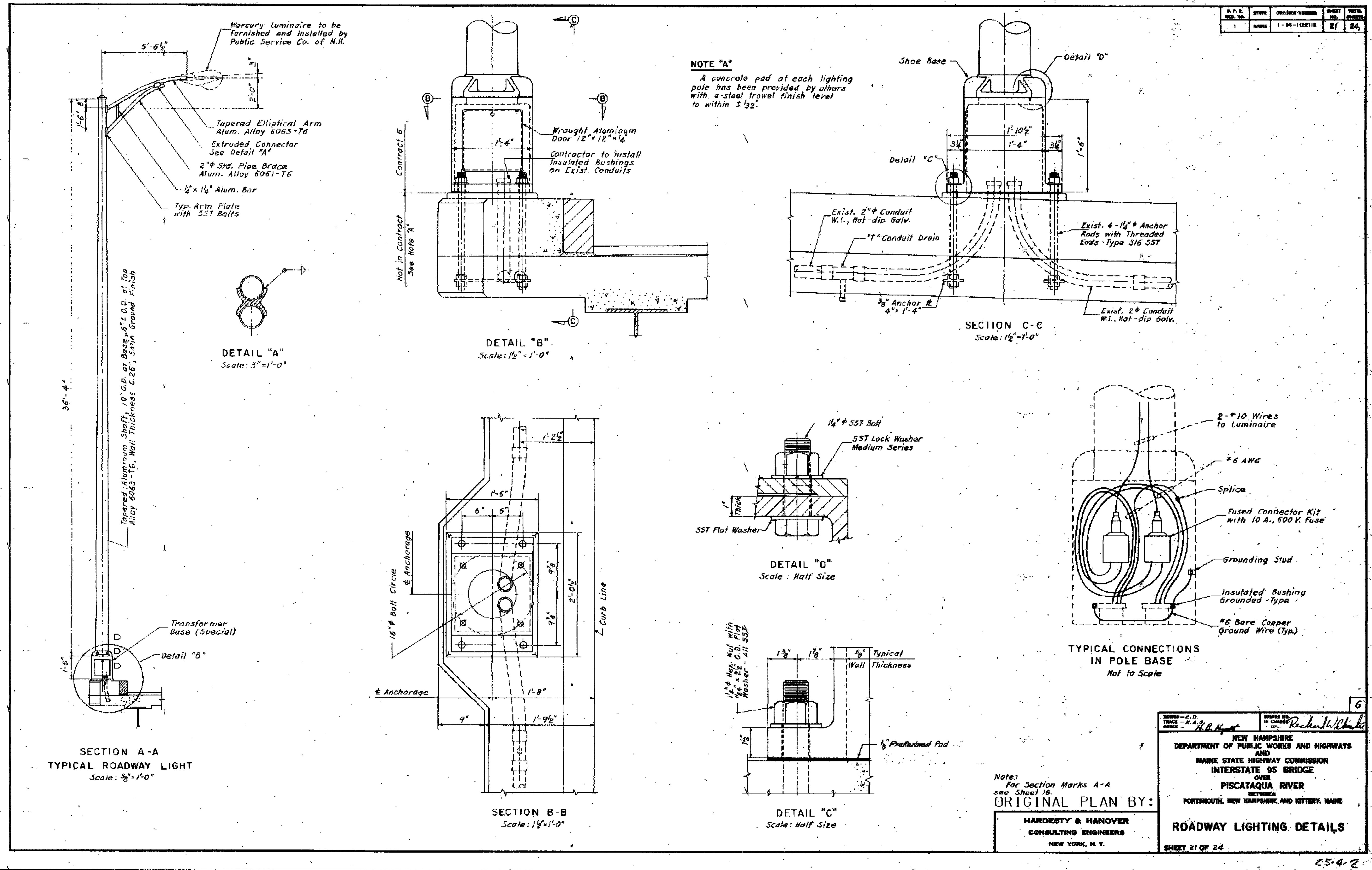
- JUNCTION BOX, JB#
- EXPANSION COUPLING, EC#
- RESET LUMINAIRE
WITH NEW ELECTRICAL
COMPONENTS, L#
- NEW 2" PVC CONDUIT
W/CONDUCTORS AND GROUND
- EXISTING METAL CONDUIT
W/CONDUCTORS BUT NO GROUND WIRE



- (1) ALL WORK SHOWN IS INCLUDED IN ITEM 564.1, BRIDGE LIGHTING SYSTEM.
- (2) RE-ENERGIZE EXISTING LIGHTING IN NAVIG ZONE AND MAKE SAFE. DO NOT AFFECT OPERATION OF NAVIGATION LIGHTING ON MAIN RIVER BRIDGE.
- (3) SEE BRIDGE SHEET 33 FOR ELEVATION F-F, JUNCTION BOX, AND EXPANSION COUPLING DETAILS.

NOT TO SCALE

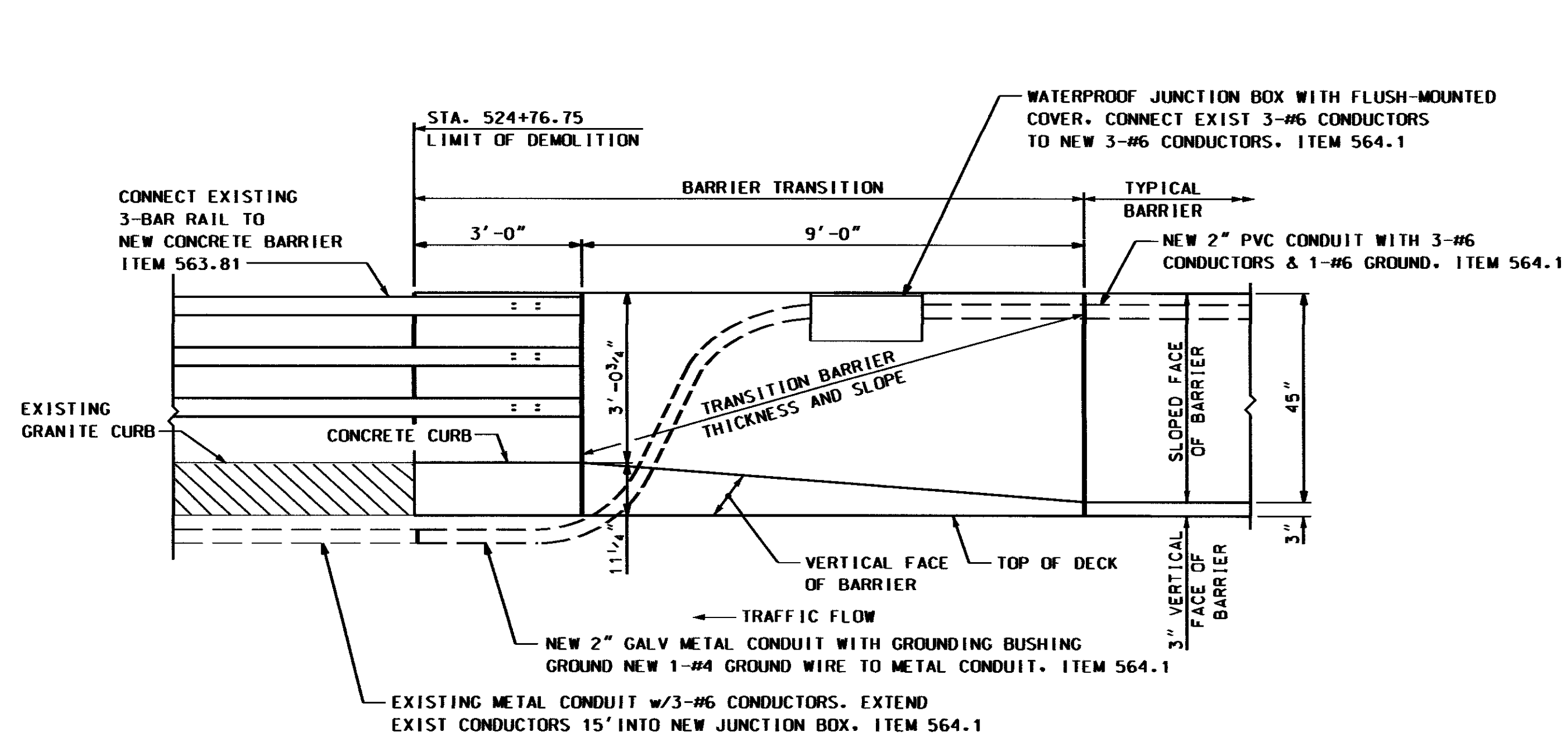
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE	ISSUE DATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
XX	15760L1 plan2258 128	AS NOTED	REV. DATE		36	43

[illegible]

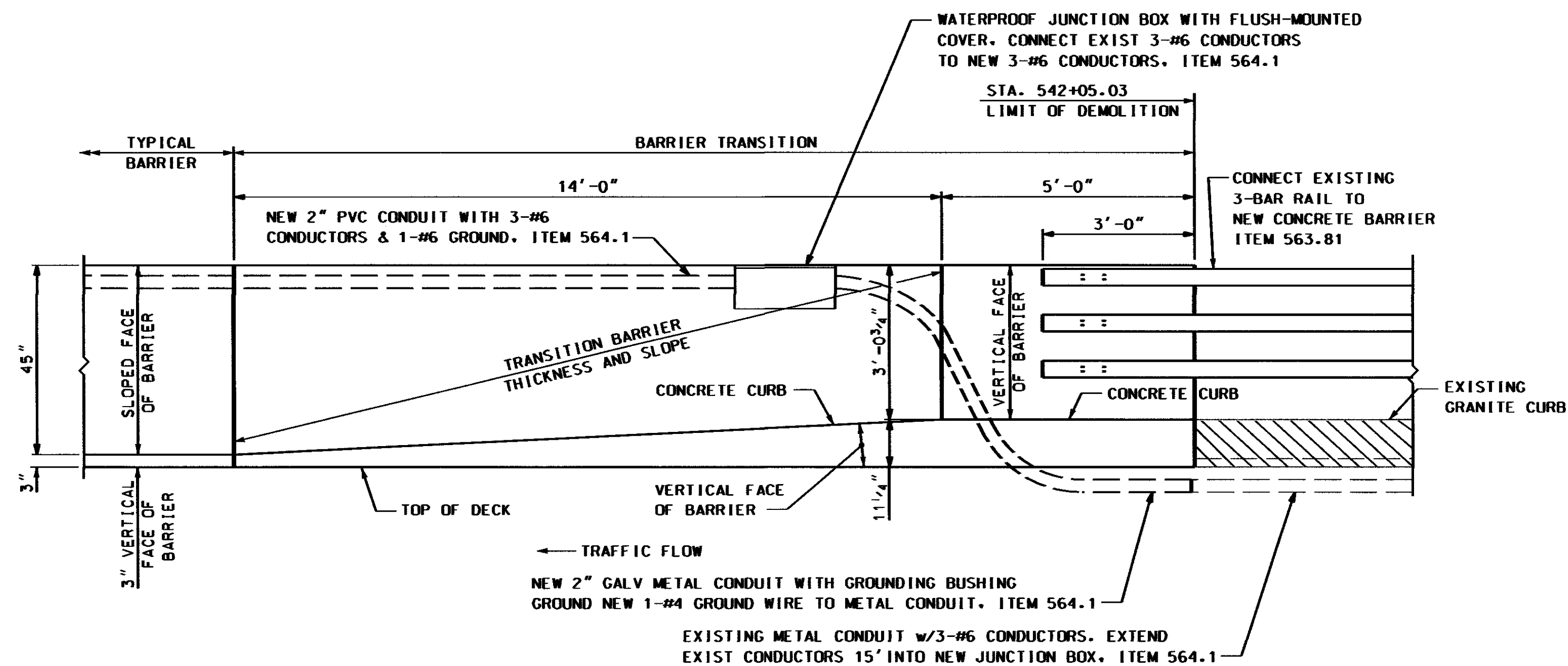
- NOTES**

 1. THIS DRAWING IS REPRODUCED FROM AS-BUILT DRAWING NO. 21 OF 24.
PROJECT NO. 1-95-1(22)16 CONTRACT NO. 6.
 2. EXISTING POLES AND BASES TO BE REMOVED AND RESET AT 4 LOCATIONS.
 3. ALL EXISTING ELECTRICAL COMPONENTS ARE TO BE REPLACED.
 4. SELECT THE FOUR BEST COMPONENTS FROM THE EIGHT LIGHTS AVAILABLE.
 5. ALL WORK IS INCLUDED IN ITEM 564 BRIDGE LIGHTING SYSTEM.
 6. THIS SHEET IS REPRODUCED AT REDUCED SIZE AND SCALES ABOVE DO NOT APPLY.

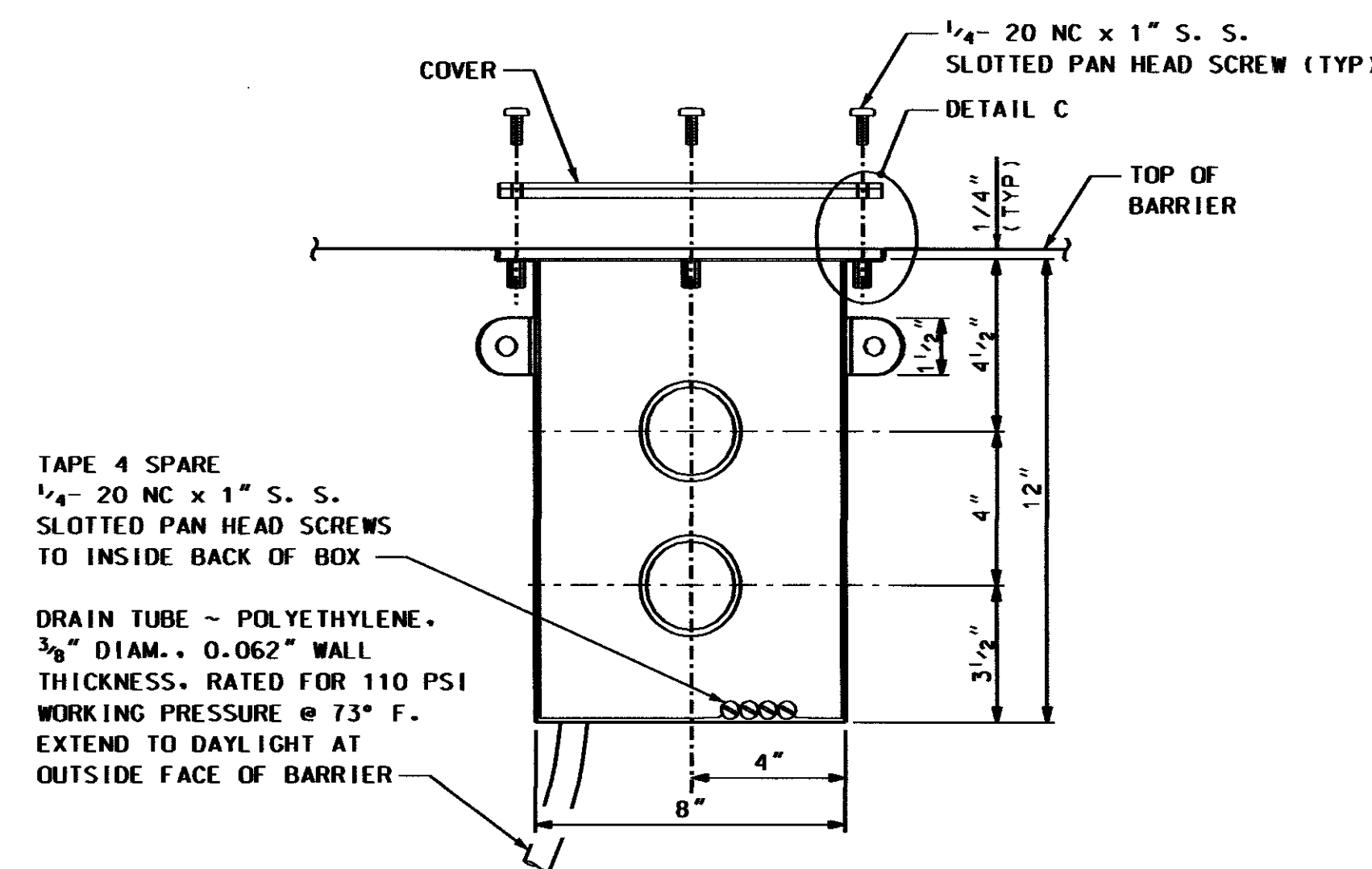
STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
BRIDGE LIGHTING DETAILS			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
157600asb11...Det1250-120	15760	37	43



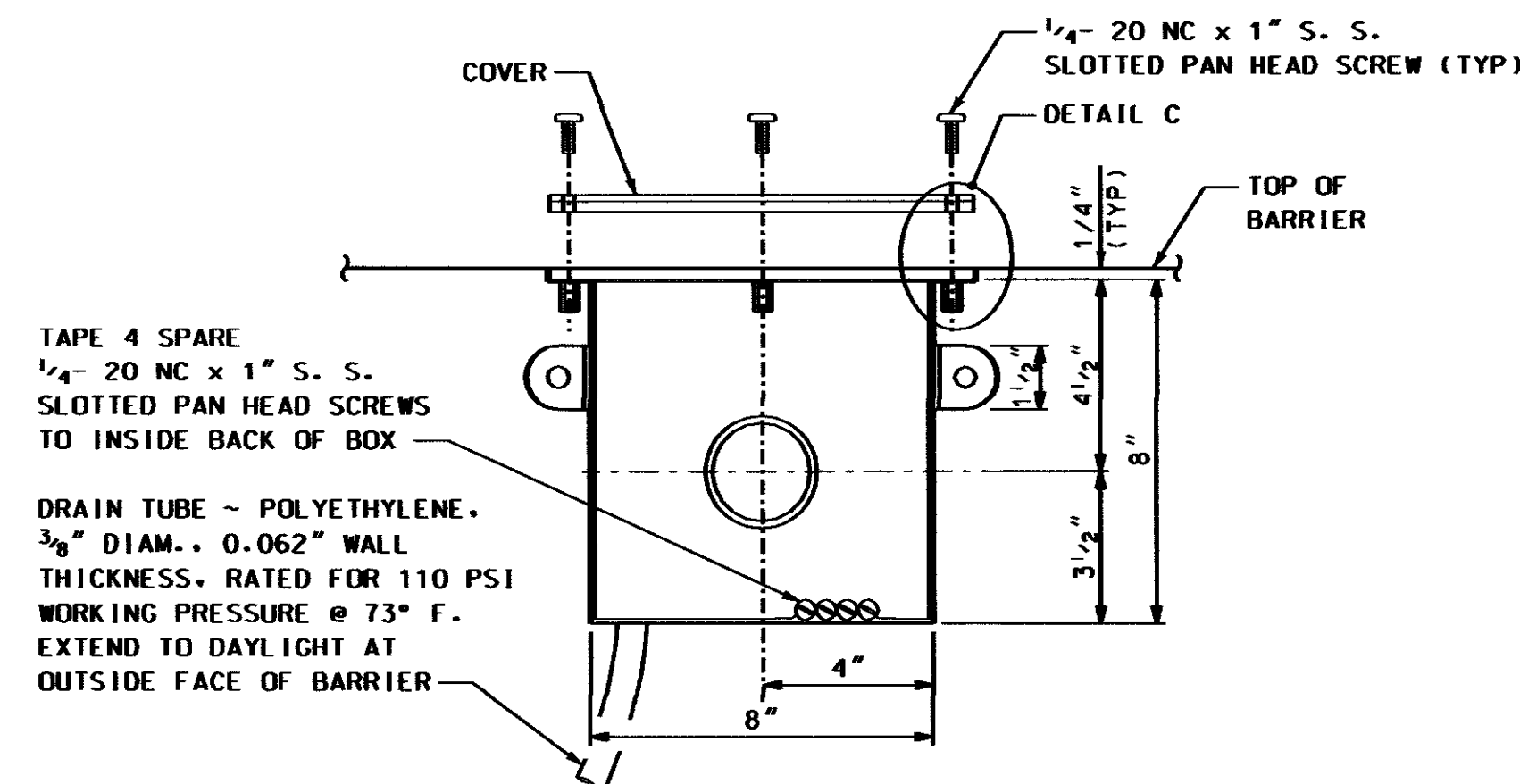
ELEVATION E-E
(LOOKING WEST)



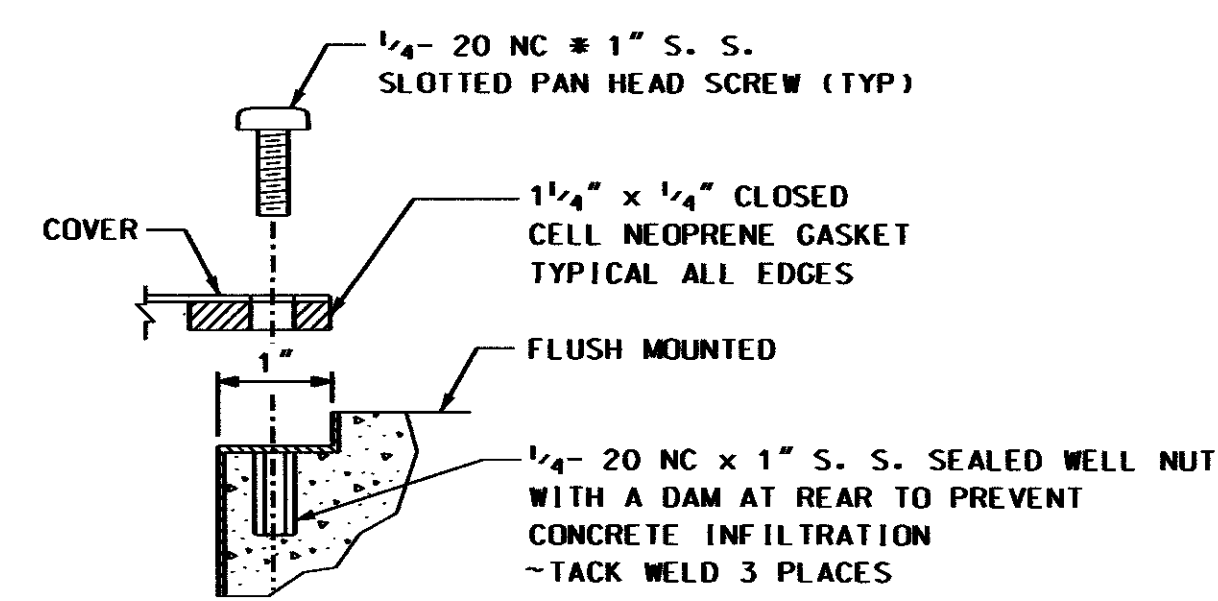
ELEVATION F-F
(LOOKING WEST)



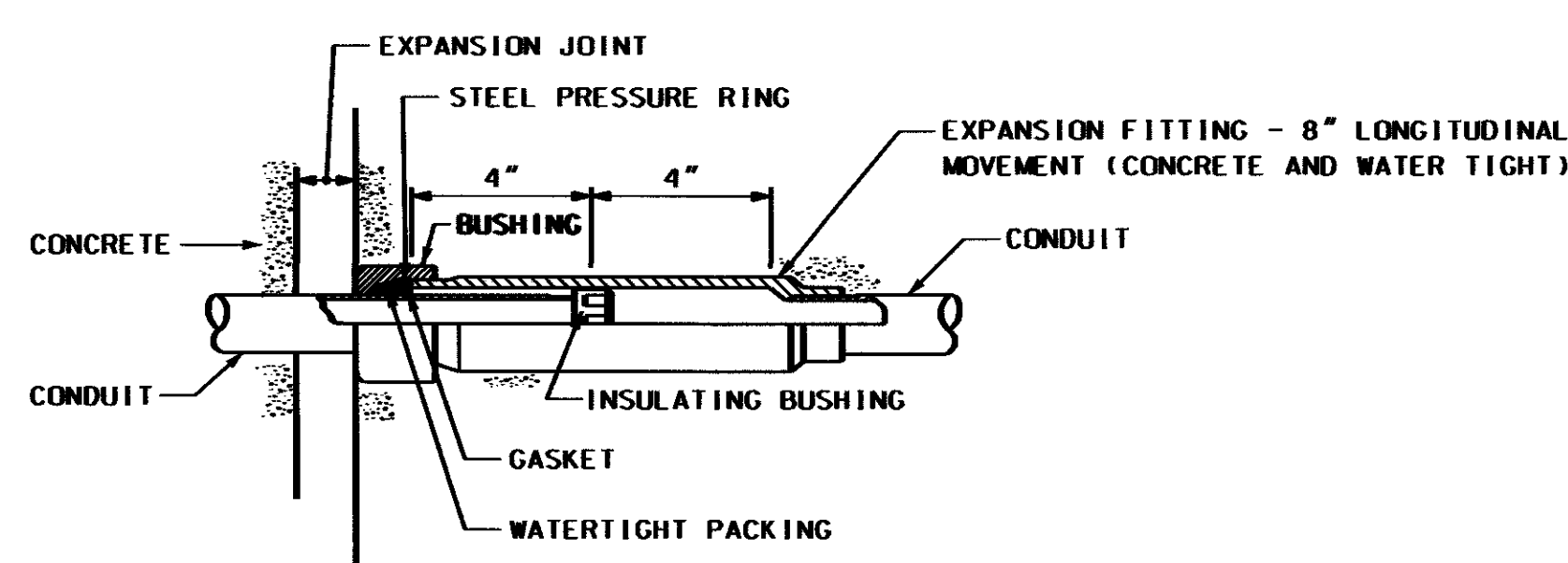
JUNCTION BOX AT LIGHT
NOT TO SCALE



INTERMEDIATE JUNCTION BOX
NOT TO SCALE



DETAIL C
NOT TO SCALE



CONDUIT EXPANSION COUPLING FITTING
NOT TO SCALE

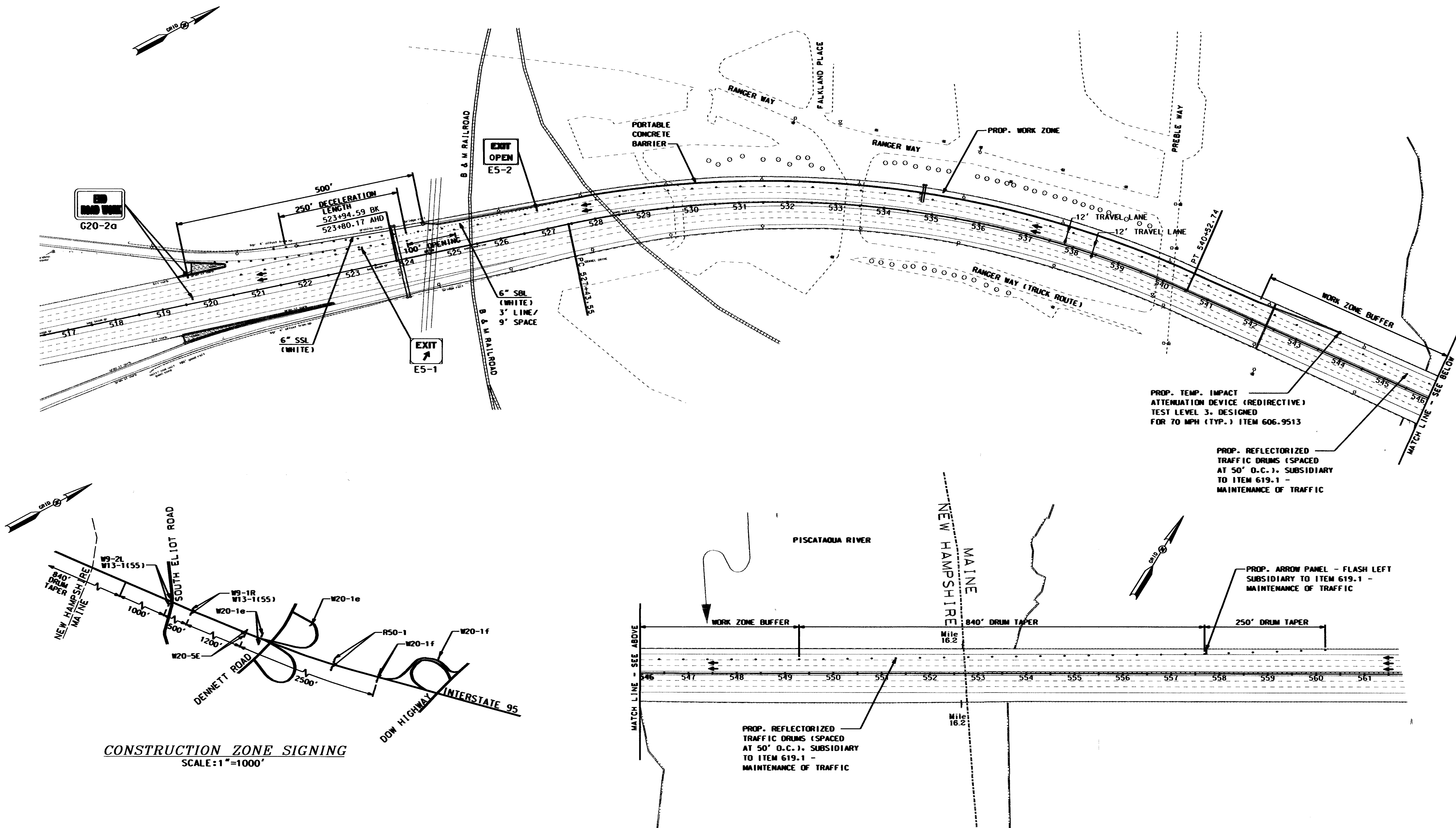
NOTES

- (1) THE JUNCTION BOX SHALL BE OF TYPE 306 STAINLESS STEEL. WELDED SEAM CONSTRUCTION: 12 GAGE BACKBOX WITH #2B FINISH. 12 GAGE COVER WITH #4 FINISH, AND 12 GAGE MOUNTING TABS.
- (2) FIELD DRILL OR PUNCH HOLES IN THE JUNCTION BOX ENDS.
- (3) USE FITTINGS THAT ARE UL LISTED AND CERTIFIED CONCRETE TIGHT ON THE OUTSIDE OF THE JUNCTION BOX CONDUIT CONNECTION. USE AN END BELL BUSHING ON THE INSIDE FOR PVC CONDUIT.
- (4) "LIGHTING" IDENTIFICATION LETTERS SHALL BE 1/16" LINE THICKNESS FORMED BY ENGRAVING, STAMPING, OR WITH A STAINLESS STEEL WELD BEAD ON ON THE COVER.
- (5) LIBERALLY COAT THE THREADS OF THE COVER FASTENERS WITH ANTI-SEIZE COMPOUND DURING CONSTRUCTION & BEFORE FINAL CLOSURE.
- (6) DETAILS SHOWN FOR BOX INSTALLATION IN STATIONARY FORMS.
- (7) CONDUITS SHALL ENTER JUNCTION BOX FROM ENDS ONLY.
- (8) PROVIDE 18" LONG BOXES WITH TEN COVER SCREWS EQUALLY SPACED.
- (9) MIDPOINT DIMENSIONS SHOWN ARE BASED ON 45°F REFERENCE TEMPERATURE. ADJUST FOR ACTUAL STEEL GIRDER TEMPERATURE AT TIME OF INSTALLATION BY 4" PER 100°F DIFFERENCE FROM REFERENCE TEMPERATURE.
- (10) PROVIDE PRE-MANUFACTURED EXPANSION COUPLINGS AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

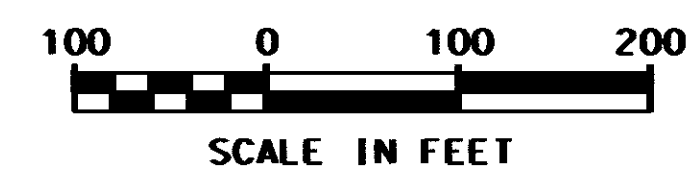
STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN		PORTSMOUTH		BRIDGE NO.		258/128		STATE PROJECT		15760	
LOCATION		ATLANTIC HEIGHTS, I-95 HIGH LEVEL BRIDGE SOUND WALL									
LIGHTING CONDUIT DETAILS										BRIDGE SHEET	
REVISIONS AFTER PROPOSAL				BY		DATE		BY		DATE	
				DESIGNED	TD	08/11	CHECKED	PMM	08/11	33 OF 33	
				DRAWN	FLC	08/11	CHECKED	TD	08/11	FILE NUMBER	
				QUANTITIES	TD	08/11	CHECKED	PMM	08/11	118-1-1	
				ISSUE DATE		FEDERAL PROJECT NO.			SHEET NO.		TOTAL SHEETS
				REV. DATE					38		43

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
XX	15760Lt_Dns258_128	AS SHOWN

SDR PROCESSED SB		DATE	8/11	REVISIONS AFTER PROPOSAL			
NEW DESIGN TD		DATE	8/11	NUMBER	DATE	STATION	DESCRIPTION
SHEET CHECKED PWM		DATE	8/11				
AS BUILT DETAILS		DATE					



- NOTES:**
1. PORTABLE CONCRETE BARRIER TO BE INSTALLED AS SHOWN ON THE TRAFFIC CONTROL PLAN - 3 LANE OPTION.
 2. ALL CONSTRUCTION ZONE SIGNING SHOULD BE PLACED ON BOTH SIDES OF I-95 SOUTHBOUND.
 3. ALL PROPOSED TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT AND ARE SUBSIDIARY TO ITEM 619.1 - MAINTENANCE OF TRAFFIC.
 3. PORTABLE CHANGEABLE MESSAGE SIGN TO BE PLACED IN THE FIELD PRIOR TO CONSTRUCTION. THE MESSAGE SHALL BE AS DIRECTED BY THE ENGINEER, AND SHALL BE PAID UNDER ITEM 619.25.



STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
<i>TRAFFIC CONTROL PLAN</i> <i>2-LANE SETUP</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
x1-15760SSP-0pt2	15760	39	43

CONSTRUCTION ZONE SIGNING
SCALE: 1"=1000'

NOTES:

1. RELOCATION OF TEMPORARY TRAFFIC CONTROL BARRIER AND TRANSPORTING THE BARRIERS TO AND FROM THE PROJECT IS SUBSIDIARY TO ITEM 606.417.
2. ALL CONSTRUCTION ZONE SIGNING SHOULD BE PLACED ON BOTH SIDES OF I-95 SOUTHBOUND.
3. ALL PROPOSED TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT AND ARE SUBSIDIARY TO ITEM 619.1 - MAINTENANCE OF TRAFFIC.

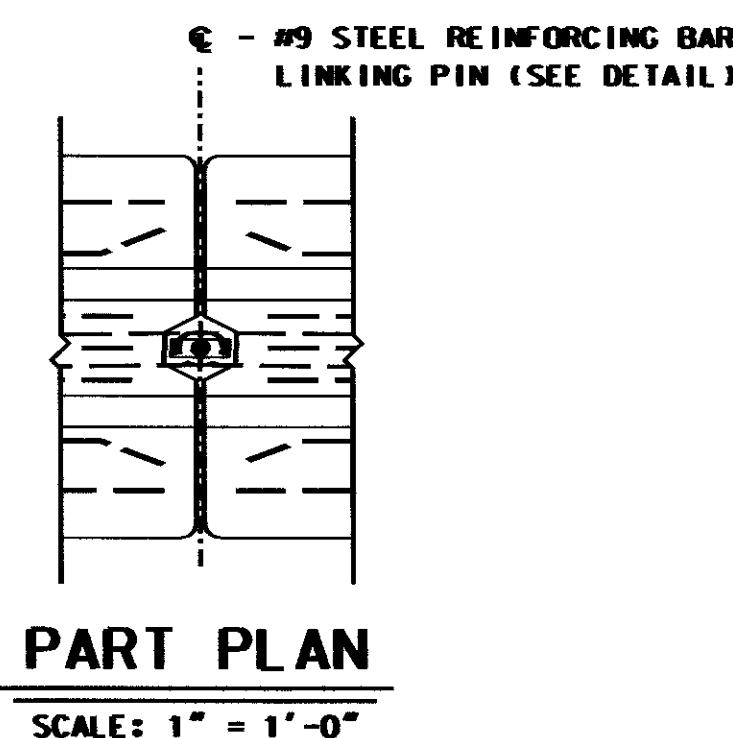
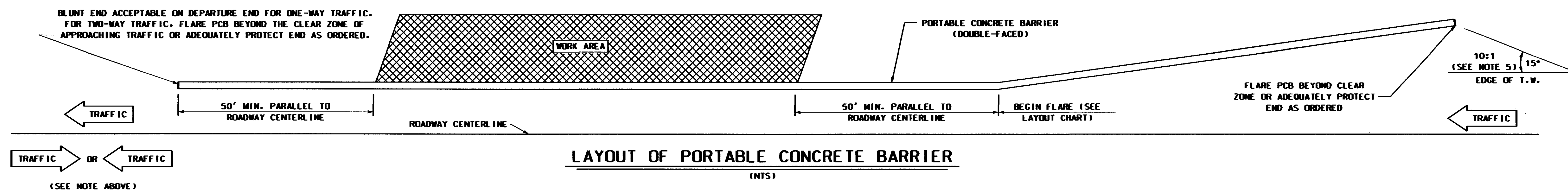
STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
TRAFFIC CONTROL PLAN 3-LANE SETUP			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
x1_15760SSP_Opt1	15760	40	43

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
TRAFFIC CONTROL PLAN 3-LANE SETUP			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
x1_15760SSP_0p1	15760	40	43

GENERAL NOTES

1. REFER TO THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PUBLISHED BY THE NHDOT.
2. NOTE NEW REFLECTIVITY REQUIREMENTS IN THE 2010 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 718 PUBLISHED BY THE NHDOT.
3. REFER TO THE LATEST EDITION OF THE STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AS PUBLISHED BY THE NHDOT FOR EXACT DETAILS OF PERMANENT SIGNING STANDARDS AND NHDOT SPECIFIC SIGNS.
4. REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS MANUAL AS PUBLISHED BY THE USDOT-FHWA FOR EXACT DETAILS OF BORDERS, ETC.

TRAFFIC CONTROL PLAN CONSTRUCTION SIGN SUMMARY



PORTABLE CONCRETE BARRIER LAYOUT			
OPERATING SPEED	DESIRABLE LATERAL OFFSET FROM T.W. **	MAXIMUM FLARE RATE * (FREE-STANDING)	MINIMUM LENGTH OF PCB SYSTEM
≤ 30 MPH	2'	7:1	
40 MPH	5'	9:1	
50 MPH	6.5'	11:1	
60 MPH	8'	13:1	
70 MPH	10'	15:1	
ALL SPEEDS	15' MAX ***		100'

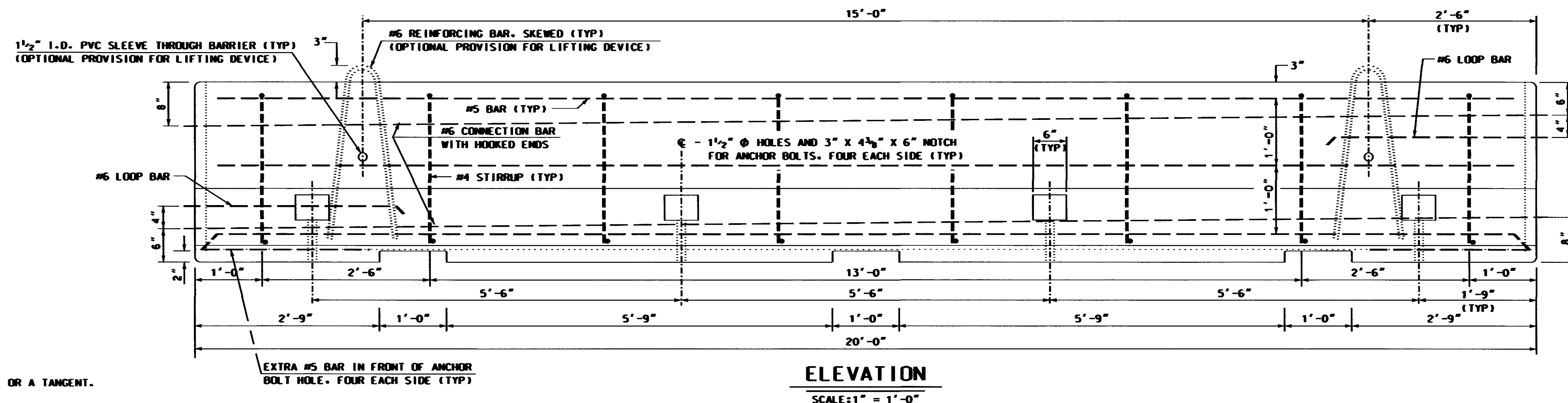
- * MEASURE FLARE FROM A LINE PARALLEL TO THE ROADWAY C, WHETHER ON A CURVE OR A TANGENT.
- ** FOR RESTRICTED SITE CONDITIONS, LESSER OFFSETS MAY BE PERMITTED BY THE ENGINEER.
- *** TO REDUCE POTENTIAL FOR HIGH-ANGLE IMPACTS (> 15°)

GENERAL NOTES

1. THE PORTABLE CONCRETE BARRIER DETAILS, AS SHOWN ON THIS SHEET, ARE IN COMPLIANCE WITH THE REQUIREMENTS OF NCHRP REPORT 350.
2. CONCRETE BARRIER SHALL BE FURNISHED BY THE CONTRACTOR AND PAID AS ITEM 606.4175. PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - ANCHORED. END TREATMENTS AND CONNECTIONS TO EXISTING BARRIERS, WHEN REQUIRED, SHALL BE SUBSIDIARY TO ITEM 606.4175.
3. THE CONTRACTOR SHALL FURNISH AND INSTALL APPROVED RETROREFLECTIVE DELINEATORS AT 25-FOOT INTERVALS ALONG THE TOP AND/OR ONE FOOT DOWN THE SIDE OF THE PORTABLE CONCRETE BARRIER. SUBSIDIARY TO ITEM 606.4175. THE COLOR OF DELINEATORS SHALL, IN ALL CASES, CONFORM TO THE COLOR OF EDGE LINE MARKINGS. DELINEATORS SUPPLEMENT, BUT DO NOT REPLACE, THE NEED FOR RETROREFLECTIVE SOLID EDGE LINE MARKINGS.
4. UNPROTECTED OPENINGS IN PORTABLE CONCRETE BARRIER WILL NOT BE PERMITTED, UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER.
5. OTHER BARRIER CONFIGURATIONS AND END CONNECTIONS ARE SUBJECT TO APPROVAL BY THE ENGINEER. BARRIERS OF DIFFERENT GEOMETRIC SHAPES SHALL NOT BE MIXED ON THE SAME RUN.
6. PLACE RETROREFLECTORIZED DRUMS OR BARRICADES IN ACCORDANCE WITH GC-2 OF THE MUTCD IN ADVANCE OF PORTABLE CONCRETE BARRIER TO WARN AND ALERT DRIVERS.

MATERIAL NOTES

1. BARRIERS SHALL BE LIGHT COLORED CLASS "AA" CONCRETE HAVING A MINIMUM 28 DAY COMPRESSION STRENGTH OF 4,000 PSI. BARRIERS SHALL HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. CASTING DATE SHALL BE SHOWN ON BARRIER. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
2. ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM-A615) GRADE 60. REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED.
3. EACH BARRIER UNIT SHALL INCLUDE ONE LINKING PIN.
4. LIFTING OPTIONS SHOWN ARE ADVISORY ONLY. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO PROVIDE ADEQUATE LIFTING POINTS ON EACH BARRIER.
5. CONNECTING DEVICES SHALL BE COMPATIBLE WITH OTHER UNITS AND SHALL ALLOW PLACEMENT ON A 110' RADIUS. BARRIERS OF DIFFERING GEOMETRIC SHAPES SHALL NOT BE MIXED.
6. DELINEATORS SHALL BE ATTACHED TO THE BARRIER USING AN APPROVED ADHESIVE MATERIAL OR BY BOLTS AND ANCHORS AS SHOWN ON STANDARD NO. DL-1.



PORTABLE CONCRETE BARRIER REINFORCING SCHEDULE

DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
CONNECTION BARS	#6	2	24'-9 1/2"	
BOTTOM LONGITUDINAL	#5	2	19'-10"	
CENTER & TOP LONGITUDINAL	#5	3	19'-4"	
BOTTOM TRANSVERSE	#5	8	1'-4"	
STIRRUPS	#4	8	5'-0"	
EXTRA ANCHOR HOLE BARS	#5	8	2'-5"	
LIFTING DEVICE (OPTIONAL)	#6	2	5'-4"	
LOOP BAR	#6	2	6'-10 1/4"	

#4 STIRRUP BARS

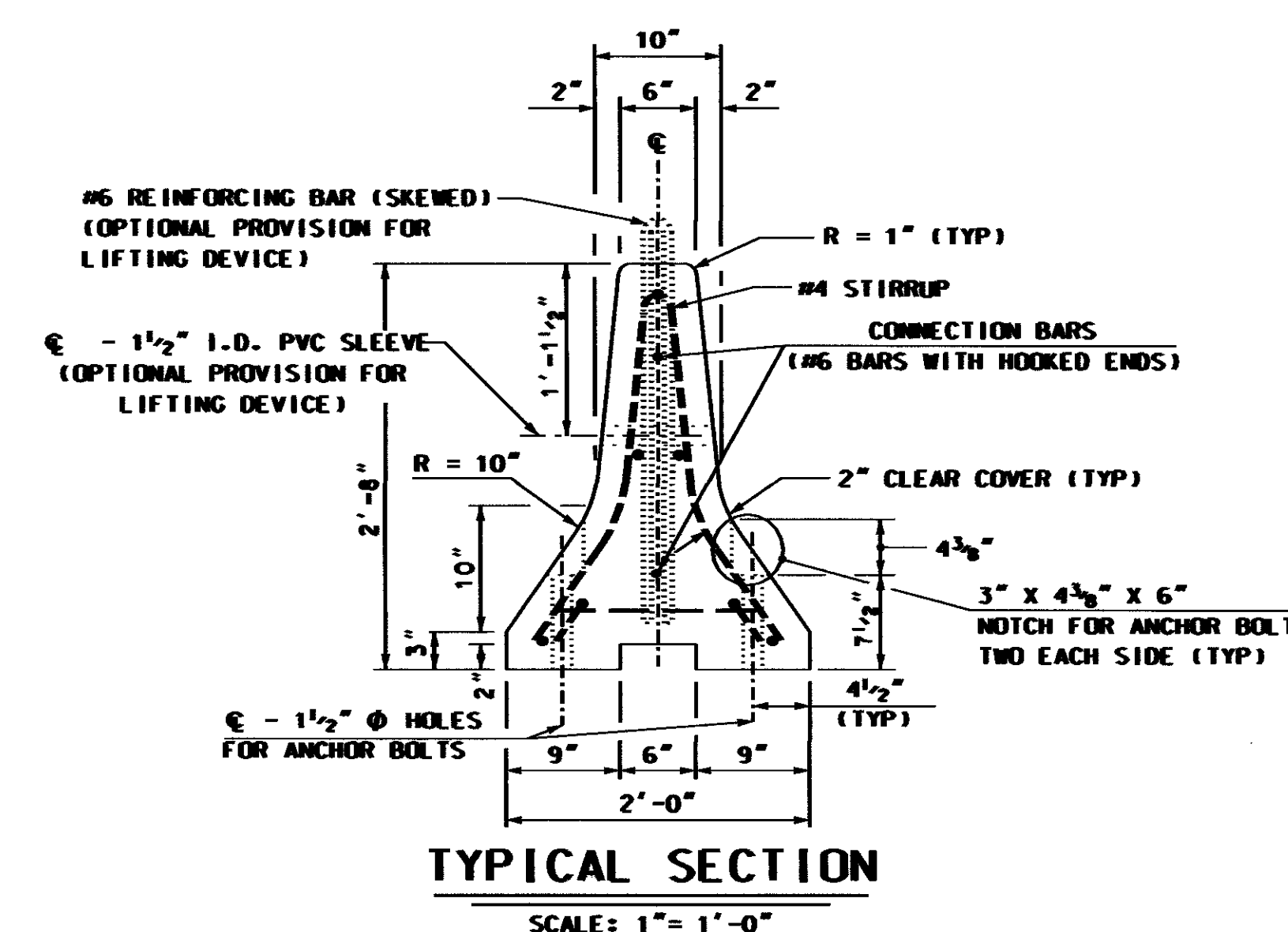
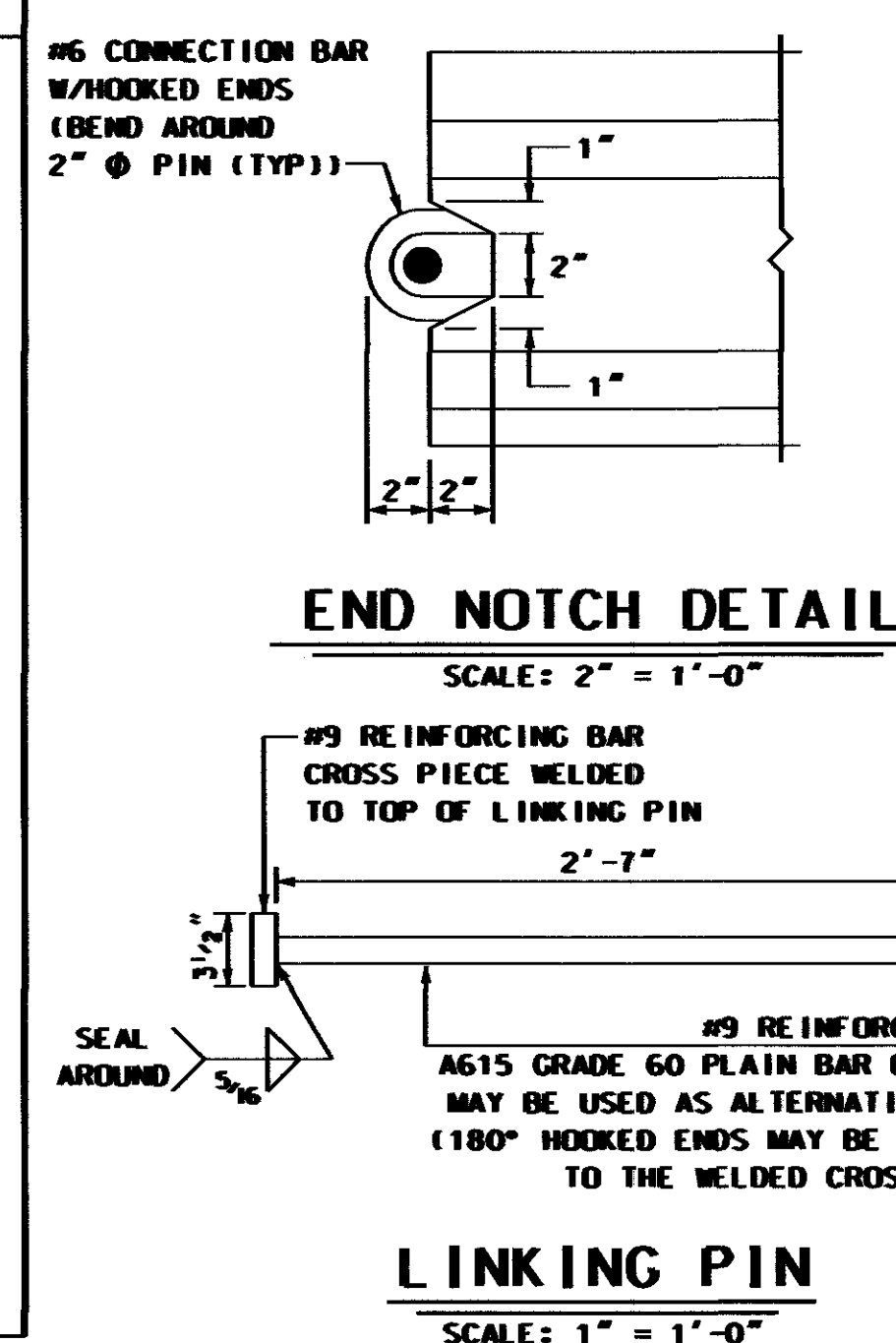
#6 LIFTING DEVICES (OPTIONAL)

#6 CONNECTION BARS

#6 LOOP BAR (TOP VIEW)

#6 LOOP BAR (SIDE VIEW)

#5 BOTTOM LONGITUDINAL BARS



STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN			
<i>PORTABLE CONCRETE BARRIER</i>			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEET
15156pccbr-31p20	15760	43	43