

PLAN VIEW

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

§ RADIAL DIMENSION
 * DIMENSION ALONG FACE OF BACKWALL
 ** DIMENSION ALONG END OF DECK

**NOTE: DETAILS AND NOTES
 MAY NOT BE CURRENT.
 CLOSELY REVIEW BEFORE
 USING DETAILS.**

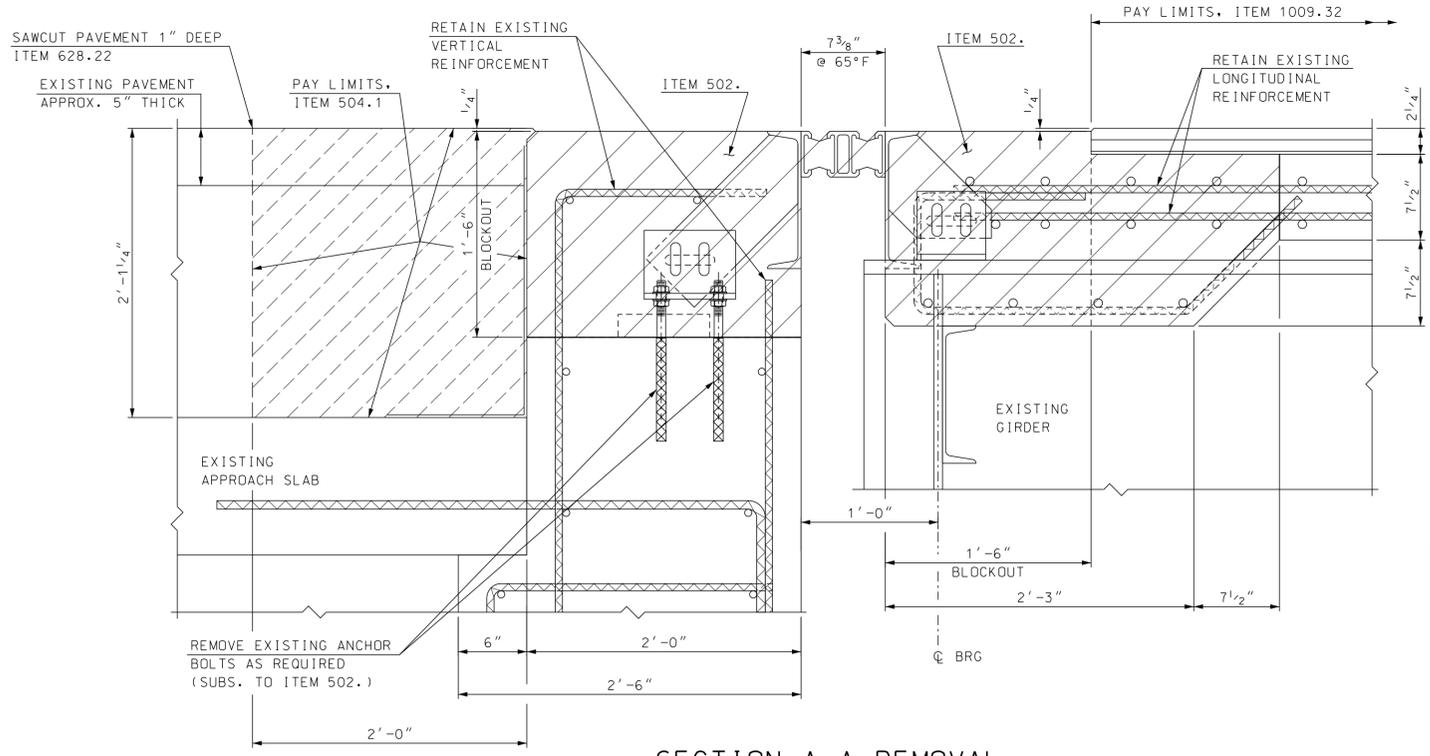
SAMPLE PLAN
 DATE: 9-2014

EXPANSION JOINT NOTES

1. THE MODULAR JOINT SHOWN IS REPRESENTATIVE OF THE TYPE OF EXPANSION JOINT ACCEPTABLE FOR USE. THE EXACT JOINT CONFIGURATION WILL DEPEND UPON THE MANUFACTURER'S DETAILS. SHOP DRAWINGS OF MODULAR EXPANSION JOINT SYSTEM INCLUDING BARRIER/CURB DETAILS, PLACEMENT DETAILS, AND SHIPPING DEVICES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. THE ENTIRE ASSEMBLY, INCLUDING ELASTOMERIC SEALS, SHALL BE PAID FOR AS ITEM 561.2001, PREFABRICATED MODULAR BRIDGE JOINT SYSTEM (F) (SEE SPECIAL PROVISION).
2. EXPANSION JOINT STEEL SHALL BE AASHTO M223 (ASTM A572) GRADE 50. THE MINOR STEEL PLATES AND EXTRUSIONS MAY CONFORM TO AASHTO M183 (ASTM A36). ALL STEEL SHALL BE GALVANIZED.
3. SPLICES FOR EXPANSION JOINT STEEL SHALL DEVELOP FULL STRENGTH.
4. ELASTOMERIC SEALS SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. NO SPLICES WILL BE ALLOWED.
5. THE EXPANSION JOINT MANUFACTURER SHALL INCLUDE A TEMPERATURE SETTING TABLE FOR THE EXPANSION JOINT LOCATION ON THE SHOP DRAWINGS.
6. MINIMUM INSTALLATION WIDTH "T" = 12" AT 65°F. ADJUSTMENT IN OPENING FOR A 15°F CHANGE IN TEMPERATURE = 3/8".
7. THE MODULAR BRIDGE JOINT SYSTEM SHALL HAVE A RANGE OF MOVEMENT OF 3.69". THE CONTRACTOR SHALL USE MODULAR BRIDGE JOINT SYSTEM STM SERIES BY WATSON BOWMAN ACME OR D SERIES BY D.S. BROWN. THIS DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, AND MINIMUM INSTALLATION.
8. JOINT SUPPORT PLATES AND HARDWARE SHALL BE SHOP WELDED TO THE EXPANSION JOINT STEEL AND SHALL BE DETAILED TO ALLOW FOR ALL NECESSARY ADJUSTMENTS TO ACCOMMODATE ROADWAY CROSS SLOPE, GRADE, AND TEMPERATURE SETTINGS.
9. SUPPORT BOXES AND BARS SHALL BE DESIGNED BY THE MANUFACTURER. TYPE, SIZE, AND LOCATION SHALL BE DETERMINED BY THE MANUFACTURER.
10. STIFFENER PLATES, STUDS, AND ANCHORAGES MAY NEED TO SHIFTED FROM THE LAYOUT AS SHOWN ON THESE PLANS BASED ON THE MANUFACTURER'S DESIGN OF THE SUPPORT BOXES AND BARS.
11. PROTECT THE TOP OF THE EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
12. ELEVATIONS SHOWN AT THE TOP OF THE EXPANSION JOINT STEEL ARMOR ANGLES AND BEAMS ARE 1/8" LOWER THAN ADJACENT PROPOSED FINISHED ROADWAY GRADE.
13. NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED.
14. NO REINFORCING STEEL SHALL BE CUT TO CLEAR THE BRIDGE EXPANSION DEVICE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
15. IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL. REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES PER SECTION 550
16. SEE BRIDGE SHEETS 7 & 8 FOR SECTIONS A-A, B-B, C-C, D-D AND E-E.

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	HOOKSETT	BRIDGE NO.	080/148	STATE PROJECT	28435
LOCATION MAIN STREET over B&M RR, MERRIMACK RIVER, & RIVERSIDE STREET					
ABUTMENT A EXPANSION JOINT (1 OF 3)					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					8 OF 18
DESIGNED	JAT	12/13	CHECKED	SMG	8/14
DRAWN	SMG	12/13	CHECKED	JAT	8/14
QUANTITIES	SMG	9/14	CHECKED	JAT	9/14
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			12A	1

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC\	28435 Exp Jt A - Rev 1	AS NOTED



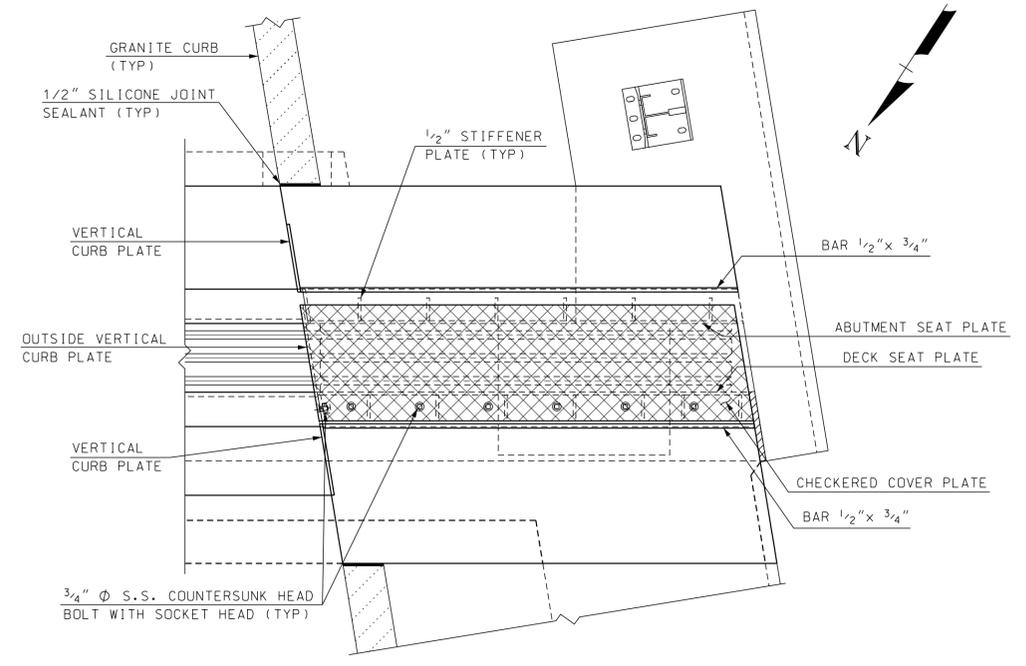
SECTION A-A REMOVAL
SCALE: 1 1/2" = 1'-0"

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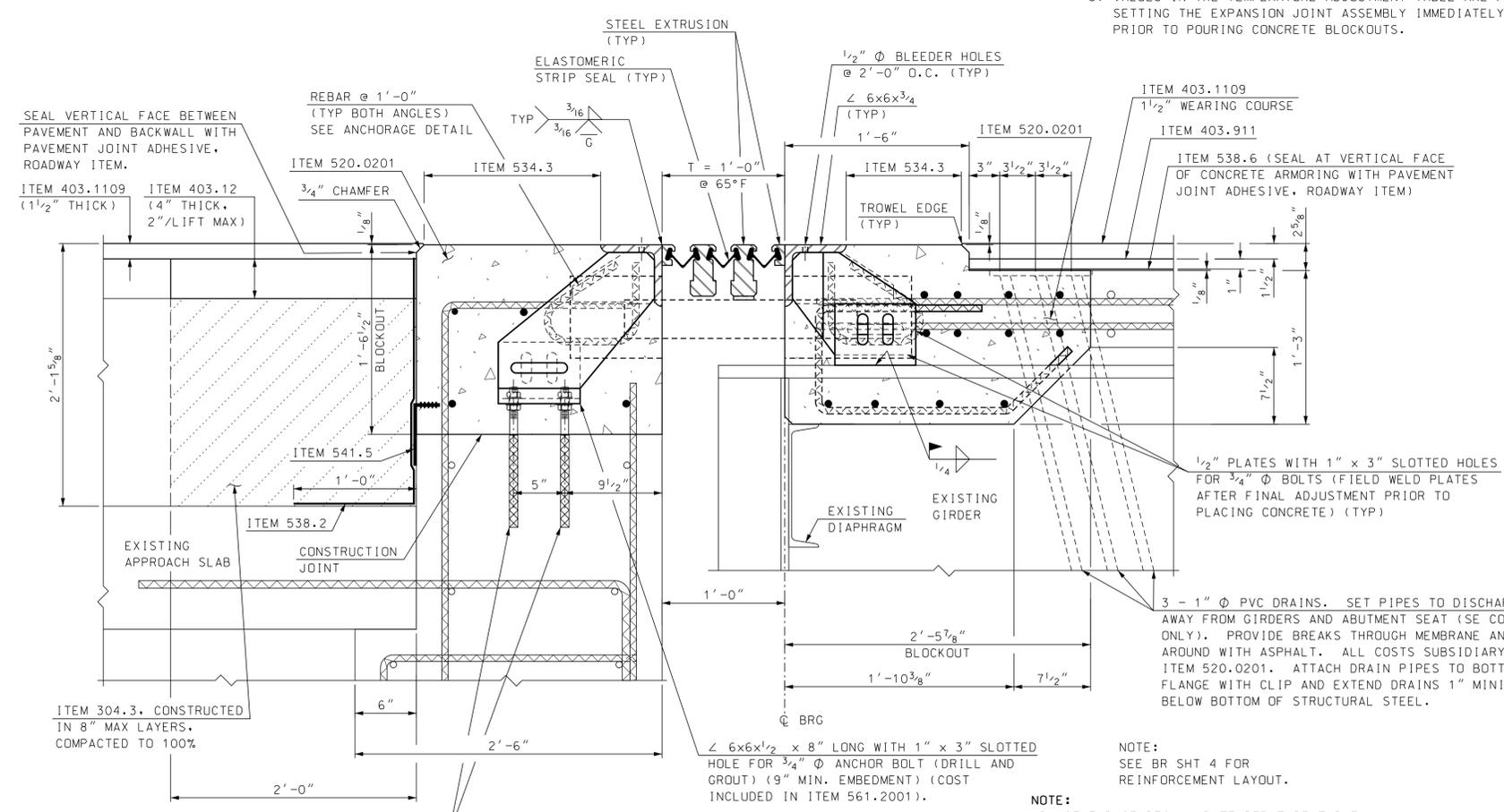
TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	13 1/8"
35°F	12 3/4"
50°F	12 3/8"
65°F	12"
80°F	11 5/8"
95°F	11 1/4"

TEMPERATURE ADJUSTMENT NOTES

- "T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL.
- MINIMUM "T" WIDTH FOR SEAL INSTALLATION = 12" (APPROXIMATELY 65°F OR LESS).
- VALUES IN THE TEMPERATURE ADJUSTMENT TABLE ARE FOR SETTING THE EXPANSION JOINT ASSEMBLY IMMEDIATELY PRIOR TO POURING CONCRETE BLOCKOUTS.

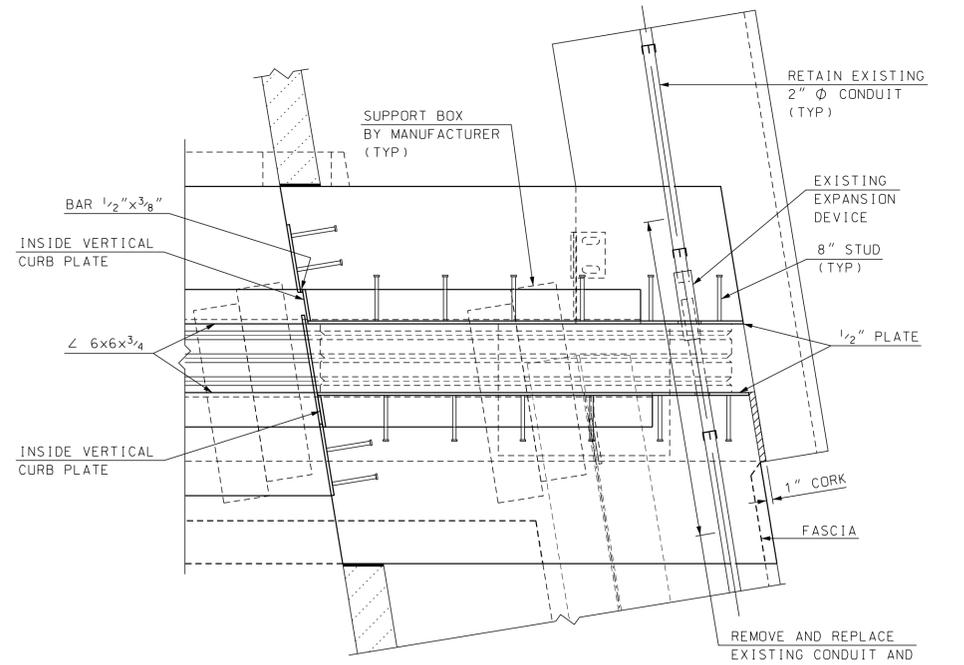


UPPER ASSEMBLY
SCALE: 3/4" = 1'-0"



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

NOTE: ADJUST END OF DECK AND TEMPERATURE TABLE AS REQUIRED OR AS DIRECTED BY THE ENGINEER SO THAT THE END OF DECK ALWAYS COVERS THE EXISTING DIAPHRAGM.

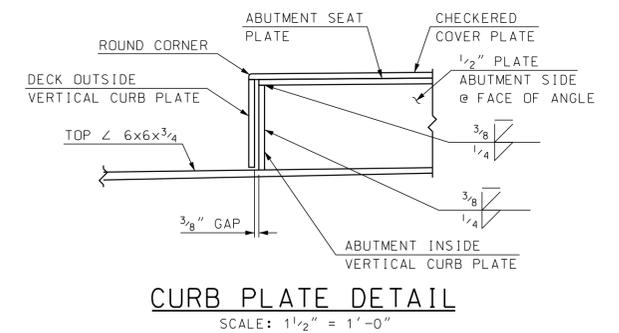
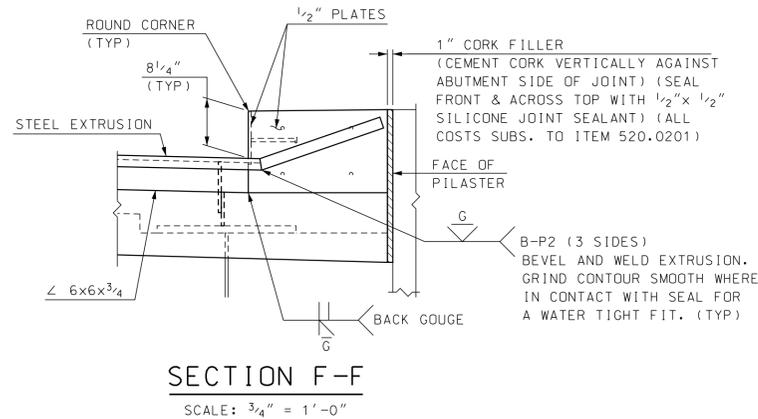
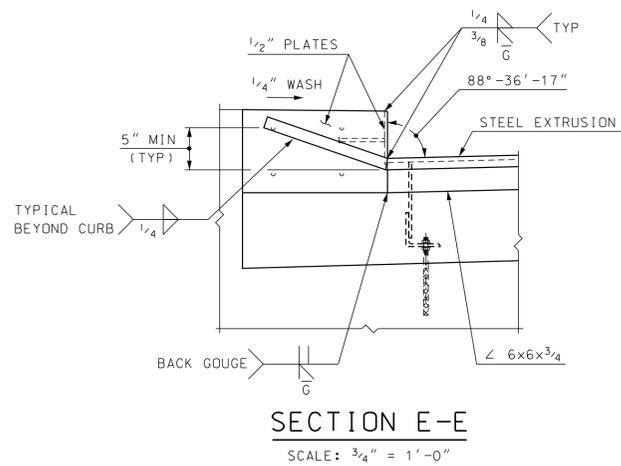
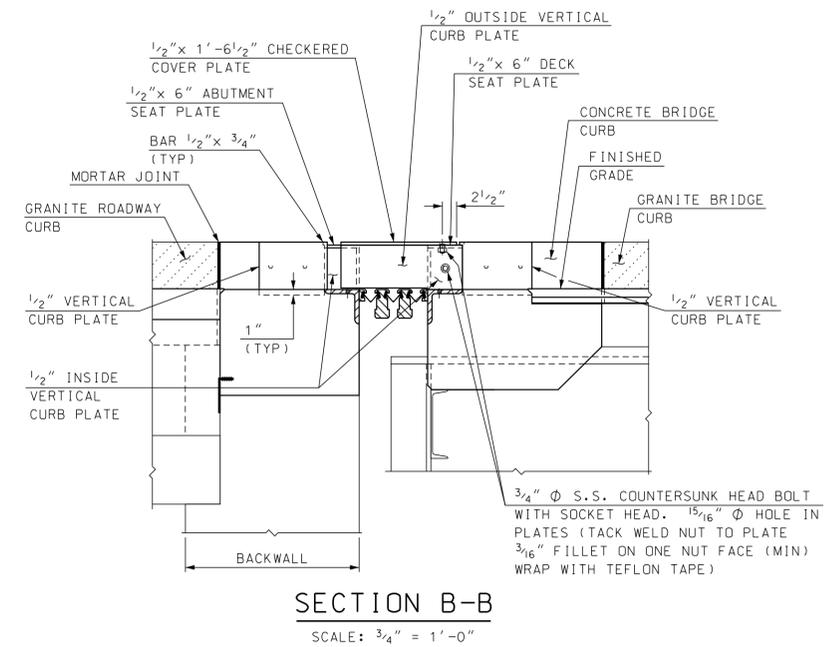
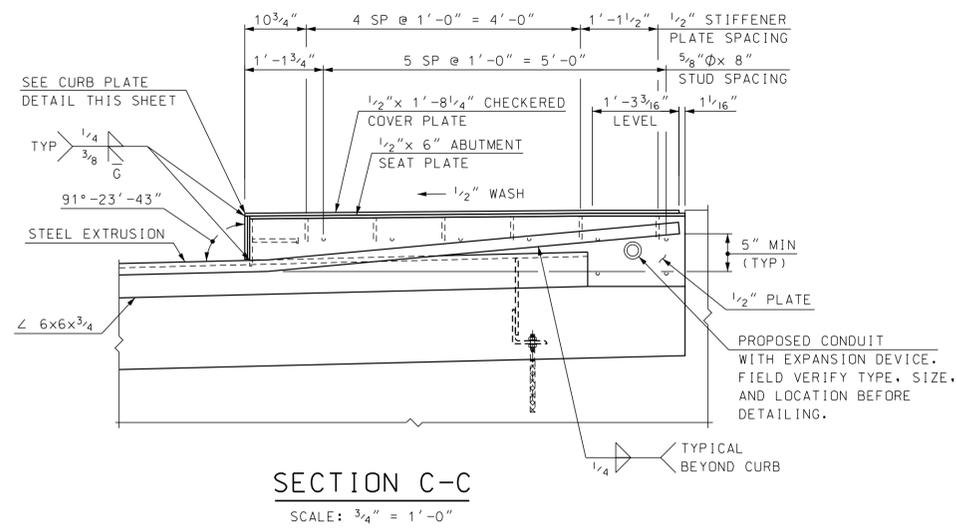
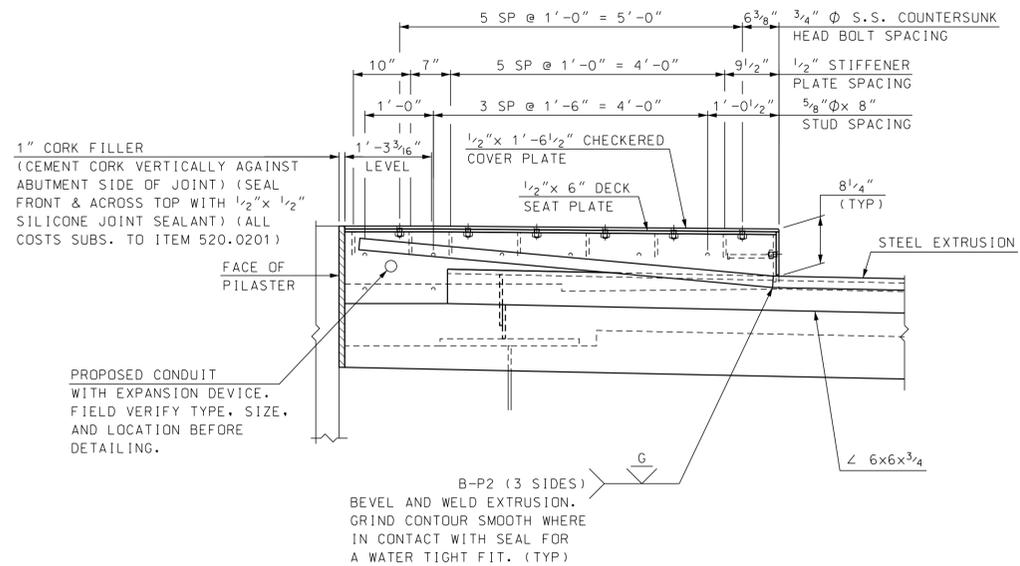


LOWER ASSEMBLY
SCALE: 3/4" = 1'-0"

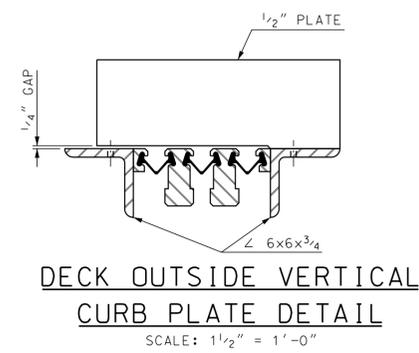
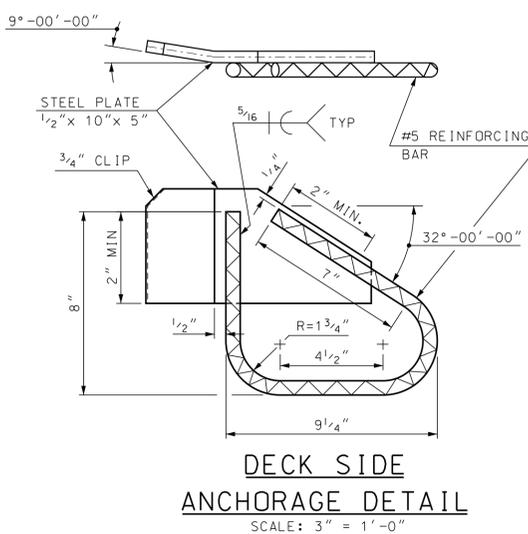
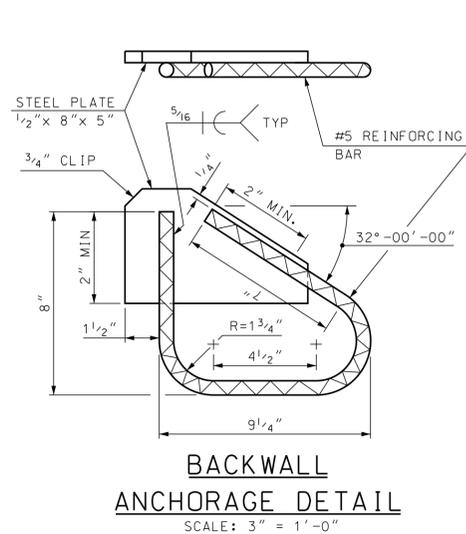
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DATE: 9-2014

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LOCATION MAIN STREET over B&M RR, MERRIMACK RIVER, & RIVERSIDE STREET									
ABUTMENT A EXPANSION JOINT (2 OF 3)									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	SMG	DATE	BRIDGE SHEET		
		JAT	12/13	CHECKED	JAT	8/14	9 OF 18		
		SMG	12/13	CHECKED	JAT	8/14	FILE NUMBER		
		SMG	9/14	CHECKED	JAT	9/14	126-1-1		
ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS			
REV. DATE		-----		13A		1			

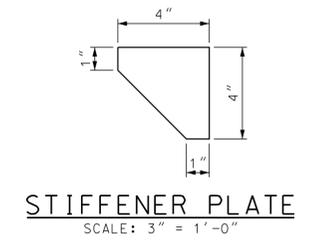
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC\	28435 Exp Jt A - Rev 1	AS NOTED



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ABUTMENT A EXPANSION JOINT (3 OF 3)								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	SMG	DATE	10 OF 18		
		DESIGNED	JAT	12/13	CHECKED	SMG	8/14		
		DRAWN	SMG	12/13	CHECKED	JAT	8/14		
		QUANTITIES	SMG	9/14	CHECKED	JAT	9/14		
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.		TOTAL SHEETS			
REV. DATE	-----			14A		1			

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC\	28435 Exp Jt A - Rev 1	AS NOTED