

① The Expansion joint Openings shall be set at the time the Deck Slab Concrete is poured. The width of the opening, calculated in inches, shall be as follows:
 At Pier No. 1: Opening = 2.3517 - (0.00586 x T)
 At Pier No. 3: Opening = 2.3057 - (0.00509 x T)
 Where "T" equals the ambient air temperature in Degrees Fahrenheit at the time the Deck Slab Concrete is poured. (10°F < T < 120°F)
 Note that the Expansion Joint Opening shall be measured perpendicular to the centerline of the joint.
 ② New Sawn and Sealed Construction Joint. See DETAIL "A".

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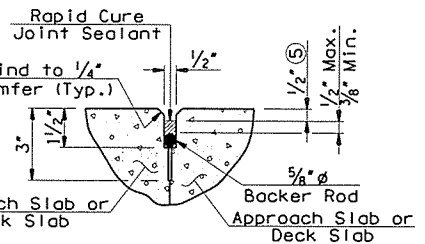
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SUPERSTRUCTURE BAR LIST							
MARK	SIZE	NO.	FORM	LENGTH	LENGTH VARIATION		
EPOXY COATED REINFORCING STEEL							
AD1	#6	18	BENT	37'-7 1/2" AVG.	37'-5" TO 37'-10"	PHASE I	
AD2	#6	18	BENT	37'-6 1/2" AVG.	37'-5" TO 37'-8"		
AD3	#6	18	BENT	35'-6 1/2" AVG.	35'-4" TO 35'-9"		
AD4	#6	18	BENT	35'-4 1/2" AVG.	35'-2" TO 35'-7"		
AD5	#6	18	BENT	34'-1" AVG.	33'-11" TO 34'-3"		
AD6	#6	18	BENT	33'-11" AVG.	33'-9" TO 34'-1"		
EP1	#5	24	BENT	5'-4"	-		
UD1	#4	272	BENT	3'-0"	-		
UD2	#4	71	BENT	3'-6"	-		
AD7	#6	18	BENT	36'-0" AVG.	35'-11" TO 36'-1"		PHASE II
AD8	#6	18	BENT	35'-11" AVG.	35'-10" TO 36'-0"		
AD9	#6	18	BENT	35'-3" AVG.	35'-2" TO 35'-4"		
AD10	#6	18	BENT	35'-2" AVG.	35'-1" TO 35'-3"		
AD11	#6	18	BENT	34'-9" AVG.	34'-8" TO 34'-10"		
AD12	#6	18	BENT	34'-8" AVG.	34'-7" TO 34'-9"		
C1	#6	108	STR.	4'-10"	-		
EP1	#5	24	BENT	5'-4"	-		
UD1	#4	280	BENT	3'-0"	-		
UD2	#4	70	BENT	3'-6"	-		



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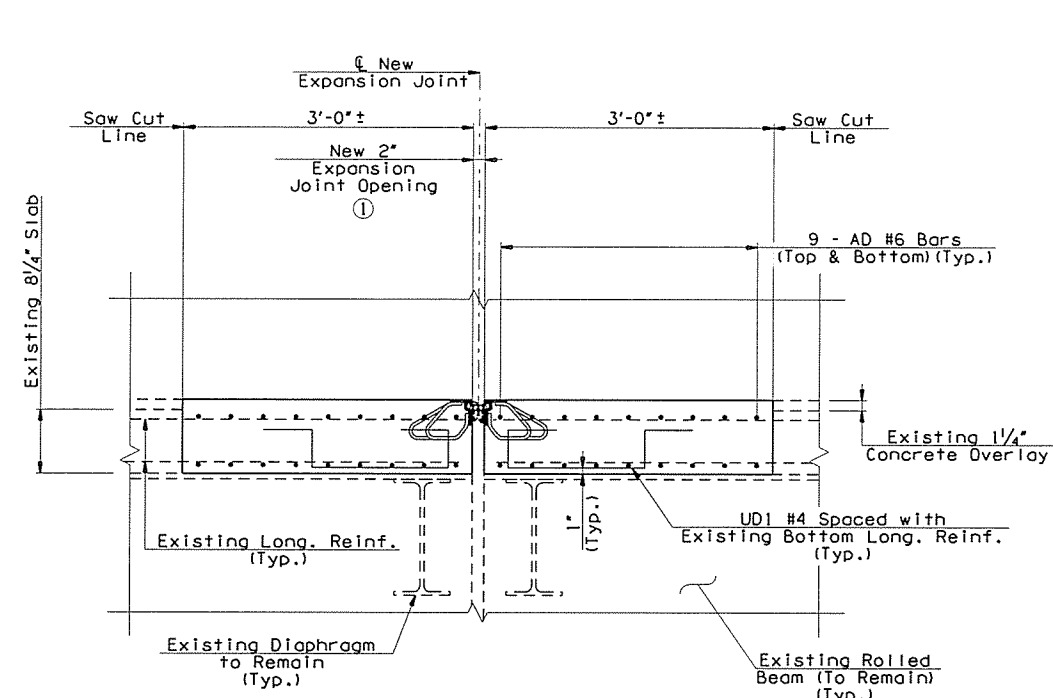
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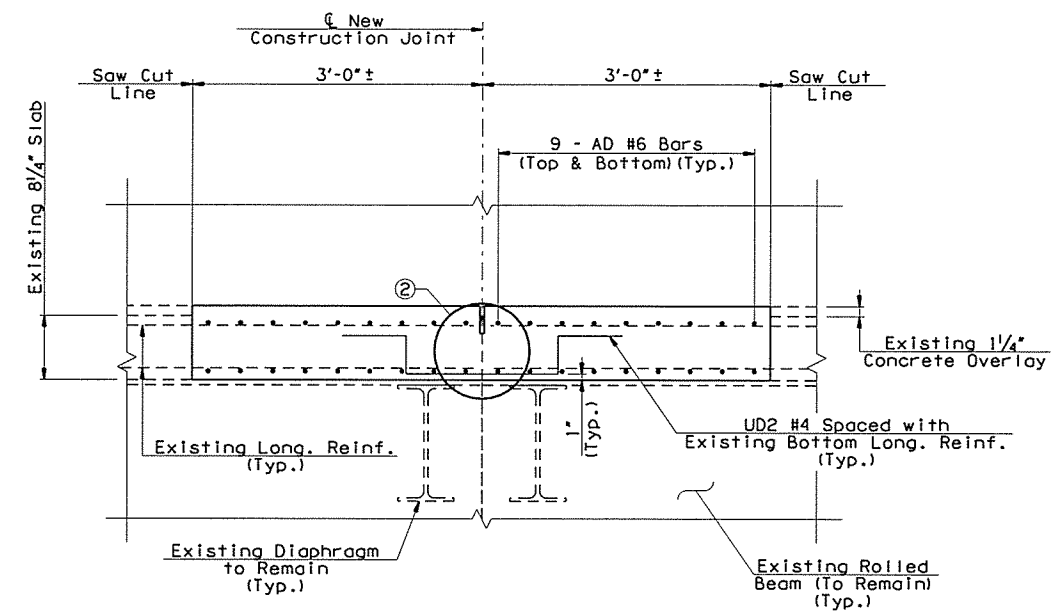
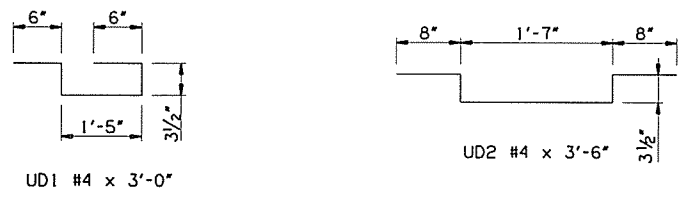


SECTION A-A AT PIER NOS. 1 & 3
 (Shown Perpendicular to Expansion Joint)



ELEVATION (AD1 - AD12)	
37'-2" to 36'-9"	AD1
37'-0" to 36'-9"	AD2
35'-1" to 34'-8"	AD3
34'-11" to 34'-6"	AD4
33'-7" to 33'-3"	AD5
33'-5" to 33'-1"	AD6
35'-3" to 35'-5"	AD7
35'-2" to 35'-4"	AD8
34'-6" to 34'-8"	AD9
34'-5" to 34'-7"	AD10
34'-0" to 34'-2"	AD11
33'-11" to 34'-1"	AD12

PLAN	
AD1 #6 x 37'-7 1/2" Avg.	
AD2 #6 x 37'-6 1/2" Avg.	
AD3 #6 x 35'-6 1/2" Avg.	
AD4 #6 x 35'-4 1/2" Avg.	
AD5 #6 x 34'-1 1/2" Avg.	
AD6 #6 x 33'-11" Avg.	
AD7 #6 x 36'-6" Avg.	
AD8 #6 x 35'-11" Avg.	
AD9 #6 x 35'-3" Avg.	
AD10 #6 x 35'-2" Avg.	
AD11 #6 x 34'-9" Avg.	
AD12 #6 x 34'-8" Avg.	



SECTION B-B AT PIER NO. 2
 (Shown Perpendicular to Construction Joint)

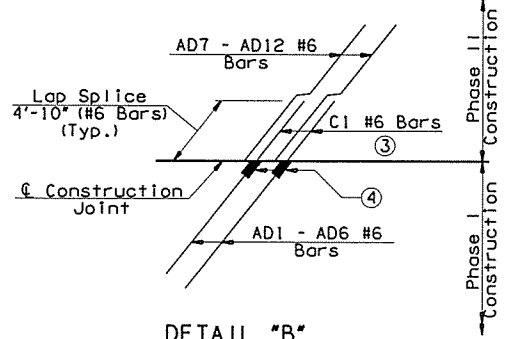
NOTES:
 See Sheet Nos. 38 & 39 for details on demolition of the existing Expansion and Construction Joints at the Piers.
 See Sheet No. 40 for additional details on construction of the new Expansion and Construction Joints at the Piers.

All costs associated with removing the existing concrete deck and replacement with Class AA concrete for Sealed Expansion Joint and Sawn and Sealed Construction Joint repairs including cleaning, straightening, and preserving existing reinforcing steel, saw cutting, materials, labor, and any incidentals necessary to complete the work as shown in the plans shall be included in the price bid per Square Yard of "CLASS C BRIDGE DECK REPAIR".

High Early Strength (HES) Concrete shall be used for deck/joint repairs. Deck repairs shall obtain a minimum compressive strength of 3,000 p.s.i. prior to placement of loads on repaired areas. Payment of HES Concrete is included in the price bid per Square Yard of "CLASS C BRIDGE DECK REPAIR".

All costs associated with the installation of Sealed Expansion Joints at Pier Nos. 1 & 3 shall be included in the price bid per Linear Foot of "SEALED EXPANSION JOINT".

All costs associated with the installation of Sawn and Sealed Construction Joint at Pier No. 2 shall be included in the price bid per Linear Foot of "RAPID CURE JOINT SEALANT".

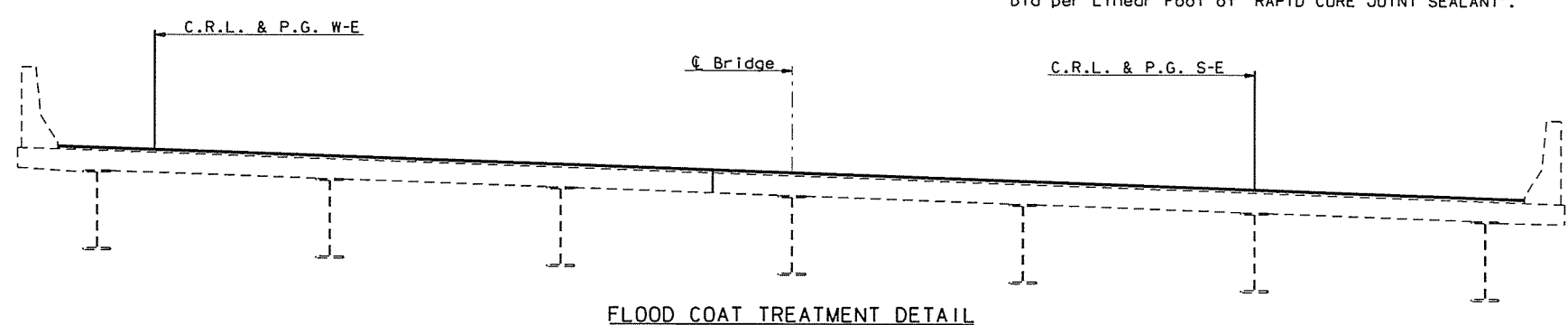


NOTES:
 Mechanical couplers shall only be used in Phase I Construction on all Piers.
 Cost of installing mechanical splices shall not be paid for directly but shall be included in the price bid per Each of "MECHANICAL SPLICES".

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FLOOD COAT TREATMENT DETAIL

SUMMARY OF QUANTITIES - SUPERSTRUCTURE				
ITEM	UNIT	PHASE I CONST.	PHASE II CONST.	TOTAL
SEALED EXPANSION JOINT	L.F.	74.10	73.20	147.30
CONCRETE PARAPET	L.F.	23.80	23.20	47.00
RAPID CURE JOINT SEALANT	L.F.	36.20	59.90	95.90
WEATHERING STEEL FIXED BEARING ASSEMBLY	EA.			1.00
WEATHERING STEEL EXPANSION BEARING ASSEMBLY	EA.			28.00
MECHANICAL SPLICES	EA.	108.00		108.00
EPOXY COATED REINFORCING STEEL	LB.	6,633.00	7,368.00	14,001.00
PAINTING EXISTING STRUCTURES	LSUM			1.00
COLLECTION AND HANDLING OF WASTE	LSUM			1.00
CLASS B BRIDGE DECK REPAIR	S.Y.	8.00	8.00	16.00
CLASS C BRIDGE DECK REPAIR	S.Y.	79.00	78.00	157.00
WATER REPELLENT (VISUALLY INSPECTED)	S.Y.	85.00	105.00	190.00
DECK AREA SEALED (FLOODCOATS)	S.Y.	639.00	630.00	1,269.00
(IPL) REPAIR BRIDGE ITEM (TYPE A)	EA.			16.00

③ Install Mechanical Reinforcing Bar Coupler (Epoxy Coated) in accordance with Section 511.04.C.3. Installation shall follow the Manufacturer's recommendations. Couplers shall be attached to:

- AD1 & AD2 Bars (Pier No. 1)
- AD3 & AD4 Bars (Pier No. 2)
- AD4 & AD6 Bars (Pier No. 3)

④ Pier No. 1: Splice AD1 & AD2 #6 Bars with C1 #6 Bars. Lap C1 #6 Bars with AD7 & AD8 #6 Bars.

Pier No. 2: Splice AD3 & AD4 #6 Bars with C1 #6 Bars. Lap C1 #6 Bars with AD9 & AD10 #6 Bars.

Pier No. 3: Splice AD5 & AD6 #6 Bars with C1 #6 Bars. Lap C1 #6 Bars with AD11 & AD12 #6 Bars.

-44 EB OVER S 38TH W AVE & TSU RR BRIDGE "B"	TULSA COUNTY	DESIGN	JMO	10/15
		DETAIL	SJL	10/15
		CHECK	BRT	11/15
SUPERSTRUCTURE DETAILS (SHEET 4 OF 5)				
GARVER				