

GENERAL NOTES FOR BRIDGE "A" (CONTINUED)

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	29775(04)			
DESCRIPTION				REVISIONS	DATE

(PL) REPAIR BRIDGE ITEMS:

Unsound concrete in the piers and abutments of the existing bridge shall be repaired as described here. Prior to repairing an area, ensure that all unsound concrete has been removed from the area and the newly exposed surface has been prepared in accordance with Section 521.04.C of the Standard Specifications. Repair any deteriorated reinforcing steel bars with section loss greater than 25%, and apply corrosion inhibitor to the repair areas in accordance with Special Provision 535-1.

The removed concrete shall be replaced with one of the following materials as specified in Section 701 of the Standard Specifications:

1. High Density Concrete (HDC)
2. Latex Modified Concrete (LMC)
3. Very Early Strength Type I Concrete (VES I)
4. Very Early Strength Type III Concrete (VES III)
5. Rapid Setting Latex Modified Concrete (RSLMC)

The concrete temperature shall not exceed 85°F. Cold weather practices shall be implemented under any of the following conditions:

The air temperature was less than 55°F within 24 hours before placement of concrete, or the substrate temperature is less than 55°F during placement of concrete, or the air temperature will be less than 55°F within 6 hours after placement of concrete.

Cold weather practices shall be as follows:

Maintain a concrete mix temperature of 75°F during placement, and ensure the air temperature is rising during placement, and complete placement during the warmest part of the day.

Air temperatures shall be greater than 45°F when placing early strength concrete.

Alternatively, the removed concrete may be replaced with one of the following commercially available shotcrete products used in accordance with the Manufacturer's recommendations and as approved by the Engineer:

6. QUIKRETE SHOTCRETE MS with polypropylene fibers
7. SIKACEM 103F
8. SIKACEM 133
9. SIKACRETE 211 SCC PLUS
10. BASF MASTEREMACO S 210SP
11. BASF MASTEREMACO S 211SP
12. PROSPEC SHOTCRETE 300V
13. EUCOSHOT F

The new concrete shall be placed to the original neat lines of the structural component under repair and finished to provide a surface texture matching that of the adjacent existing concrete.

All costs to complete the repairs including all costs of removals, cleaning, surface preparation, corrosion inhibitor, new concrete, proportioning, mixing, formwork, placing concrete, finishing concrete, material, labor, equipment and incidentals shall be included in the unit price bid per Square Yard of "(PL) REPAIR BRIDGE ITEMS".

(PL) INSTALLATION OF BRIDGE ITEMS:

Install new Inlet Frame, Inlet Grate, Inlet & 18" RCP (to connect to existing 18" RCP).

All costs including materials, labor, equipment and incidentals shall be included in the price bid per Lump Sum of "(PL) INSTALLATION OF BRIDGE ITEMS". See Sheet Nos. 39, 41, and Stds. SSIF-4-0 & CI-1-2 for details.

JP 29775(04)		PAY QUANTITIES		I-44 OVER I-244 NB	
ITEM	DESCRIPTION	UNIT	QUANTITY		
0200 BRIDGE "A" (NB) 19470					
501(G) 6309	CLSM BACKFILL (BR-5)	C.Y.	20.000		
502(A) 6173	ENGINEERED FALSEWORK	LSUM	1.000		
504(A) 1304	APPROACH SLAB (BR-1)	S.Y.	444.800		
504(B) 1305	SAW-CUT GROOVING (BR-1)	S.Y.	1,119.600		
504(C) 6250	SEALED EXPANSION JOINT (BR-1)	L.F.	113.900		
504(E) 6190	42" F-SHAPED PARAPET (BR-1)	L.F.	549.500		
504(G) 6390	RAPID CURE JOINT SEALANT (BR-4)	L.F.	840.800		
506(A) 1322	STRUCTURAL STEEL (BR-3)	LB.	5,000.000		
507(A) 6170	STAINLESS STEEL FIXED BEARING ASSEMBLY (BR-1)	EA.	17.000		
507(B) 6174	STAINLESS STEEL EXPANSION BEARING ASSEMBLY (BR-1)	EA.	17.000		
509 6152	SPECIAL CONCRETE FINISH (BR-1)(BR-2)	S.Y.	174.000		
509(A) 1326	CLASS AA CONCRETE (BR-1)	C.Y.	178.600		
509(B) 1328	CLASS A CONCRETE (BR-1)	C.Y.	56.000		
510(C) 6137	SLOPE WALL (4")	S.Y.	196.700		
511 6306	MECHANICAL SPLICES (BR-1)	EA.	752.000		
511(A) 1332	REINFORCING STEEL	LB.	181.000		
511(B) 6010	EPOXY COATED REINFORCING STEEL (BR-1)	LB.	82,773.000		
512(A) 1323	PAINTING EXISTING STRUCTURES	LSUM	1.000		
512(B) 6303	COLLECTION AND HANDLING OF WASTE	LSUM	1.000		
515(A) 6013	WATER REPELLENT (VISUALLY INSPECTED) (BR-1)	S.Y.	696.900		
520(A) 6058	PREPARATION OF CRACKS, ABOVE WATER	L.F.	264.000		
520(C) 6060	EPOXY RESIN, ABOVE WATER	GAL.	8.800		
521(A) 6210	PNEUMATICALLY PLACED MORTAR	S.Y.	9.400		
540 4501	(PL) REPAIR BRIDGE ITEMS (BR-6)	S.Y.	4.800		
542 4600	(PL) INSTALLATION OF BRIDGE ITEMS (BR-7)	LSUM	1.000		
619(B) 2500	REMOVAL OF BRIDGE ITEMS	LSUM	1.000		

BR-1:

Payment for this item will be based on the plan quantities only. See Section 109.01.B of the 2009 Standard Specifications.

BR-2:

To be used at the Abutments, Piers, and Approach Slab No. 1 drain inlet after all other repairs have been completed. See General Note "SPECIAL CONCRETE FINISH" for more information.

BR-3:

Quantity shown includes token quantity to be used at the discretion of the Engineer for the purpose explained in the General Note "EXPOSURE OF DETERIORATED STRUCTURAL STEEL" on Sheet No. 3.

BR-4:

Quantity shown is for resealing of the existing slope wall joints within 10'-0" of the bridge footprint.

BR-5:

To be used at the discretion of the Engineer for filling voids under the Approach Slabs.

BR-6:

Quantity shown is for repair to the abutment and pier concrete.

To be used at the discretion of the Engineer in locations where substructure concrete deterioration is severe. This pay item may be used in lieu of or in conjunction with Pneumatically Placed Mortar. For additional information, see the General Note "(PL) REPAIR BRIDGE ITEMS" on this sheet.

BR-7:

Install new Inlet Frame, Inlet Grate, Inlet & 18" RCP (to connect to existing 18" RCP). All costs including materials, labor, equipment and incidentals shall be included in the price bid per Lump Sum of "(PL) INSTALLATION OF BRIDGE ITEMS". See Sheet Nos. 39, 41, and Stds. SSIF-4-0 & CI-1-2 for details.

BR-8:

This project is mandatorily tied with JP 29773(04). The price bid for this item shall include all Mobilization or Construction Staking required for JP 29773(04) and JP 29775(04).

JP 29775(04)		PAY QUANTITIES		I-44 OVER I-244 NB	
ITEM	DESCRIPTION	UNIT	QUANTITY		
0600 STAKING					
642(B) 0096	CONSTRUCTION STAKING LEVEL 11 (BR-8)	LSUM	1.000		

JP 29775(04)		PAY QUANTITIES		I-44 OVER I-244 NB	
ITEM	DESCRIPTION	UNIT	QUANTITY		
0640 CONSTRUCTION					
641 1399	MOBILIZATION (BR-8)	LSUM	1.000		

I-44 OVER I-244 NB BRIDGE "A"		TULSA COUNTY		DESIGN	JTR	5/16
SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE) (SHEET 3 OF 3)				DETAIL	JTR	5/16
				CHECK	BRT	5/16
STATE OF OKLAHOMA				DEPARTMENT OF TRANSPORTATION		
				JOB PIECE NO. 29775(04)		SHEET NO. 5