

REV. NO.	DESCRIPTION	REVISIONS	DATE
△	Revise Pay Quantity		6/30/16
△	Revise Pay Quantity		7/1/16
△	Added Note & Pay Items		8/17/16

GENERAL NOTES

(14) MECHANICAL SPLICES: (BRIDGES A, B & C)

Mechanical Splices shall be used to connect the transverse reinforcing steel in the Approach Slabs as specified or as shown in the plans. The Mechanical Splices shall be Erico Lenton or an approved equal. The Mechanical Splices shall satisfy the requirements of Section 511.04 C of the Standard Specifications and shall be installed in accordance with the manufacturer's specifications. All cost of installing the Mechanical Splices including the cost of materials, labor, equipment and incidentals shall be included in the unit price bid per Each of "MECHANICAL SPLICES".

The lengths of reinforcing steel bars with Mechanical Splices shown in the Phase I construction bar lists include the length of the Mechanical Splice. The lengths of reinforcing steel bars to be engaged into Mechanical Splices shown in the Phase II construction bar lists do not include any additional length for engagement into the Mechanical Splices.

The actual Mechanical Splice engagement lengths shall be determined by the Mechanical Splice manufacturer, and the lengths of the reinforcing steel bars to be engaged into Mechanical Splices shall be adjusted accordingly. The cost to adjust the length of any reinforcing steel shown in the plans to accommodate the Mechanical Splices will not be measured for payment and shall be included in the unit price bid per Each of "MECHANICAL SPLICES".

(17) ANCHORAGE INTO EXISTING CONCRETE: (BRIDGES A, B & C)

The Contractor shall have the option of the methods by which the new anchor bolts shown in the plans are to be anchored into the concrete of the existing bridge. The method must be approved by the Engineer.

Drilling into the existing concrete to install the anchorage shall be accomplished without cutting existing concrete reinforcing steel bars. Prior to drilling, the Contractor shall locate and mark the existing concrete reinforcing steel bars with nondestructive tools, equipment and methods approved by the Engineer. If existing reinforcing steel bars are encountered during drilling, the drilling shall cease and the hole shall be grouted. The hole shall then be relocated to clear the existing reinforcing steel bars. Any adjustment in the locations of the new anchor bolts from the original locations shall be the minimum amount necessary to avoid cutting the existing concrete reinforcing steel bars and shall be approved by the Engineer.

All cost to anchor the new anchor bolts into the existing bridge as specified or shown in the plans including the cost of locating existing concrete reinforcing steel bars, drilling, repairing flawed drill holes, anchoring into the existing concrete, materials, labor, equipment and incidentals shall be included in other items of work.

△ (18) ROADWAY PAVEMENT AND PATCHING: (BRIDGE A & C)

This item to be used as directed by the Engineer to maintain traffic during construction, and to provide a smooth transition from the existing roadway to the approach slab. Cost of these items include sawing and removal of the existing pavement. The Existing Concrete Pavement is estimated at 10 inches.

(10) REPAIR BRIDGE ITEM (TYPE B): (BRIDGE C)

The median barriers between Northbound and Southbound lanes contain approximately 0.20 Square Yards of damaged and missing concrete that shall be repaired with Pneumatically Placed Mortar. The actual extent of the repairs shall be determined in the field by the Engineer.

The removal of deteriorated concrete shall be done using hand tools. Power tools will not be allowed unless hand tools prove incapable of excavating all deteriorated concrete to sound concrete and approved by the Engineer. Should power tools be necessary, power tools shall be of such size approved by the Engineer such that their use does not cause damage to the sound concrete.

Any damage done to the existing reinforcing steel during the removal process shall be repaired at the Contractor's expense to the satisfaction of the Engineer. Any deteriorated reinforcing steel with a section loss greater than 50%, as determined by the Engineer, shall be reported to the Bridge Engineer for remedial action.

Prior to mortar application, blast clean the concrete surface and reinforcing steel until free of debris and corrosion. Apply Pneumatically Placed Mortar to replace deteriorated concrete. Build up mortar to match the original lines and faces of the surrounding parapets.

The Contractor shall submit a proposed work plan of the repair method to be used to the Engineer for his approval. The work plan should include surface preparation methods, bonding agents, material placing methods, and finishing methods. The Contractor shall test repair on an area to verify the effectiveness of the proposed repair method prior to commencement of the work. Faulty repairs shall be replaced at the Contractor's expense and to the satisfaction of the Engineer.

All costs including labor, equipment, materials, and incidentals necessary to complete the work described above shall be included in the price bid per Square Yard of "BRIDGE REPAIR (TYPE B)".

ENVIRONMENTAL MITIGATION NOTES

MIGRATORY BIRD TREATY ACT:

Cliff Swallows and Barn Swallows are small colonial nesting birds protected by the federal Migratory Bird Treaty Act. These species commonly use bridges and culverts for nesting. The nesting season for the swallows runs from April 1 to August 31. Swallow use of all the bridges within the project has been observed during the initial surveys conducted as part of the biological studies in 2015. Any activities which would destroy active nests or harm eggs or birds would violate the Migratory Bird Treaty Act. The Resident Engineer will evaluate the contractor's proposed work methods and conclude whether the proposed work will harm the nesting birds before work near the structure is authorized. If the proposed work will harm the nesting birds, the bridge may be netted prior to April 1 or the work delayed until the nesting season is complete. Methods other than netting must be pre-approved by the ODOT Biologist.

AIRPORT:

The following Airport/Airfield is located within 4 miles of this project: Harvey Young Airport. This action may require notifying the Federal Aviation Administration (FAA) of proposed construction via FAA Form 7460-1 prior to construction.

31672(04) PAY QUANTITIES				
0200 BRIDGE "A"				
ITEM	DESCRIPTION	UNIT	QUANTITY	
411(I)	6310 SUPERPAVE, TYPE S4(PATCH)(PG64-220K)	(18) TON	100.00	
414(E)	0225 FULL DEPTH P.C. CONCRETE PATCHING (PLACEMENT ONLY) (18)	S.Y.	400.00	
414(G)	5275 P.C. CONCRETE FOR PAVEMENT (18)	C.Y.	100.00	
501(G)	6309 CLSM BACKFILL (BR-2) (5)	C.Y.	2.00	
504(A)	1304 APPROACH SLAB (BR-1)(13)	S.Y.	400.00	
504(B)	1305 SAW-CUT GROOVING (BR-1)	S.Y.	380.00	
504(C)	6250 SEALED EXPANSION JOINT (BR-1) (1)	L.F.	132.30	
504(G)	6390 RAPID CURE JOINT SEALANT (BR-1) (2)	L.F.	721.40	
511	6306 MECHANICAL SPLICES (BR-1)(14)	EA.	156.00	
513(B)	6019 CLASS B BRIDGE DECK REPAIR (6)	S.Y.	10.00	
513(C)	6020 CLASS C BRIDGE DECK REPAIR (7)	S.Y.	10.00	
521(A)	6210 PNEUMATICALLY PLACED MORTAR (4)	S.Y.	40.00	
523(C)	6570 DECK AREA SEALED (FLOODCOATS) (BR-1) (3)	S.Y.	3071.00	
525(A)	0100 (SP) NEST PREVENTION - NETTING	LSUM	1.00	
535	6130 (SP) CORROSION INHIBITOR (SURFACE APPLIED) (8)	S.Y.	10.00	
540	4510 (PL) REPAIR BRIDGE ITEM (TYPE A) (9)	LSUM	1.00	
545	4815 (PL) REPLACE BRIDGE ITEM (TYPE A) (BR-1) (11)(17)	EA.	3.00	
619(B)	2500 REMOVAL OF BRIDGE ITEMS (15)	LSUM	1.00	

- BR-1: Payment for this item will be based on the plan quantity only. See Section 109.01(b) of the Standard Specifications.
- BR-2: To be used at the discretion of the Engineer and as noted in the plans for filling voids under Abutments, Slope Walls, and the new Approach Slabs

31672(04) PAY QUANTITIES				
0201 BRIDGE "B"				
ITEM	DESCRIPTION	UNIT	QUANTITY	
501(G)	6309 CLSM BACKFILL (BR-2) (5)	C.Y.	2.00	
504(A)	1304 APPROACH SLAB (BR-1)(13)	S.Y.	400.00	
504(B)	1305 SAW-CUT GROOVING (BR-1)	S.Y.	380.00	
504(C)	6250 SEALED EXPANSION JOINT (BR-1) (1)	L.F.	132.30	
504(G)	6390 RAPID CURE JOINT SEALANT (BR-1) (2)	L.F.	721.40	
511	6306 MECHANICAL SPLICES (BR-1)(14)	EA.	156.00	
513(B)	6019 CLASS B BRIDGE DECK REPAIR (6)	S.Y.	10.00	
521(A)	6210 PNEUMATICALLY PLACED MORTAR (4)	S.Y.	40.00	
523(C)	6570 DECK AREA SEALED (FLOODCOATS) (BR-1) (3)	S.Y.	3071.00	
525(A)	0100 (SP) NEST PREVENTION - NETTING	LSUM	1.00	
540	4510 (PL) REPAIR BRIDGE ITEM (TYPE A) (9)	LSUM	1.00	
545	4815 (PL) REPLACE BRIDGE ITEM (TYPE A) (BR-1) (11)(17)	EA.	4.00	
619(B)	2500 REMOVAL OF BRIDGE ITEMS (15)	LSUM	1.00	

31672(04) PAY QUANTITIES				
0202 BRIDGE "C"				
ITEM	DESCRIPTION	UNIT	QUANTITY	
414(E)	0225 FULL DEPTH P.C. CONCRETE PATCHING (PLACEMENT ONLY) (18)	S.Y.	600.00	
414(G)	5275 P.C. CONCRETE FOR PAVEMENT (18)	C.Y.	100.00	
501(G)	6309 CLSM BACKFILL (BR-2) (5)	C.Y.	6.00	
504(A)	1304 APPROACH SLAB (BR-1) (13)	S.Y.	832.40	
504(B)	1305 SAW-CUT GROOVING (BR-1)	S.Y.	748.00	
504(C)	6250 SEALED EXPANSION JOINT (BR-1) (1)	L.F.	130.90	
504(G)	6390 RAPID CURE JOINT SEALANT (BR-1) (2)	L.F.	370.90	
511	6306 MECHANICAL SPLICES (BR-1) (14)	EA.	620.00	
513(B)	6019 CLASS B BRIDGE DECK REPAIR (6)	S.Y.	10.00	
521(A)	6210 PNEUMATICALLY PLACED MORTAR (4)	S.Y.	40.00	
523(C)	6570 DECK AREA SEALED (FLOODCOATS) (BR-1) (3)	S.Y.	3598.00	
525(A)	0100 (SP) NEST PREVENTION - NETTING	LSUM	1.00	
540	4510 (PL) REPAIR BRIDGE ITEM (TYPE A) (9)	LSUM	1.00	
540	4520 (PL) REPAIR BRIDGE ITEM (TYPE B) (10)	LSUM	1.00	
545	4815 (PL) REPLACE BRIDGE ITEM (TYPE A) (BR-1) (11)(17)	EA.	4.00	
619(B)	2500 REMOVAL OF BRIDGE ITEMS (15)	LSUM	1.00	

0640 CONSTRUCTION PAY QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
641	1399 MOBILIZATION	LSUM	1.00

MOBILIZATION:
THIS PROJECT IS MANDATORILY TIED WITH TULSA COUNTY JOB PIECE 32565(05).
THE BID PER LUMP SUM OF "MOBILIZATION" FOR THIS PROJECT SHALL INCLUDE THE COSTS FOR MOBILIZATION FOR PROJECTS 31672(04) AND 32565(05).

BRIDGES "A" THRU "C"		DIVISION 8	Design	N/A	N/A
GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (BRIDGE, SHEET 2 OF 2)		Detail	RLA	5/16	
		Check	KMS	6/16	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION	Job Piece No.	31672(04)	SHEET MLAB02