

REVISIONS		
REV. NO.	DESCRIPTION	DATE

**GENERAL NOTES**

**SPECIFICATIONS:**

COMPLY WITH THE REQUIREMENTS OF THE 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

**VERIFICATION OF EXISTING CONDITIONS:**

ALL DIMENSIONS OF THE EXISTING BRIDGE COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO CONNECT THE NEW MATERIAL AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THERE OF.

BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITION UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE STRUCTURE, ATTACHMENTS OR ROADWAY. ANY DAMAGE TO THE EXISTING BRIDGE STRUCTURE, ATTACHMENTS OR ROADWAY DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

**PLANS:**

CONSTRUCTION PLANS FOR THE EXISTING STRUCTURES MAY BE OBTAINED FROM OFFICE SERVICES DIVISION OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION.

OFFICE SERVICES DIVISION  
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
200 NE 21ST STREET  
OKLAHOMA CITY, OKLAHOMA 73105

ASK FOR:  
STATE AID PROJECT NO. 7(72) AND SAP-7(341), SH-91 IN BRYAN COUNTY.

**DESCRIPTION OF WORK:**

THE WORK TO BE PERFORMED UNDER THIS CONTRACT CONSISTS OF THE REBUILDING OF A PORTION OF DETERIORATING COLUMNS AT THE PIERS, THE ENCASUREMENT OF ABUTMENT PILES AND THE REPLACEMENT OF GUARD RAILS ON BRIDGE 'A' ON STATE HIGHWAY 91 OVER SAND CREEK. THIS WORK IS TO BE ACCOMPLISHED BY THE REMOVAL OF DELAMINATED REINFORCING AND UNSOUND CONCRETE AT THE DAMAGED PIER COLUMNS FROM A HEIGHT AS SHOWN IN THE PLANS TO THE TOP OF EACH COLUMN. NEW REINFORCING SHALL BE PLACED AND CONCRETE FORMED TO REPLACE THE SECTION OF COLUMN ALONG WITH A NEW CONNECTION OF THE REPAIRED COLUMNS TO THE ORIGINAL PIER CAPS.

**REMOVED MATERIAL:**

ALL MATERIAL REMOVED DURING THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

**CLEANING BRIDGE SEATS AND PIER CAPS:**

ONCE ALL REPAIR ACTIVITIES ARE COMPLETE, THE BRIDGE SEATS AND PIER CAPS SHALL BE SWEEPED CLEAN OF ALL DEBRIS. ALL COSTS OF CLEANING THE BRIDGE SEATS AND PIER CAPS SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

**LANE CLOSURE:**

THE ENGINEER RESERVES THE RIGHT TO PROHIBIT LANE CLOSURES DURING HOLIDAYS OR SPECIAL EVENTS. ALL WORK REQUIRING THE CLOSING OR NARROWING OF ONE LANE OF TRAFFIC ON THE BRIDGES SHALL BE PERFORMED DURING DAYLIGHT HOURS ONLY. TRAFFIC ON THE BRIDGE SHALL BE RETURNED TO NORMAL DURING NIGHT TIME HOURS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO REOPEN THESE LANE CLOSURES AS SOON AS POSSIBLE.

**WORK SITE OBSTRUCTIONS:**

ALL OBSTRUCTIONS, INCLUDING VEGETATION AND DEBRIS, INTERFERING WITH THE PREPARATION FOR REPAIR OR OTHER ACTIVITIES ASSOCIATED WITH THE WORK AS DESCRIBED HEREIN SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL ADHERE TO ALL SAFETY AND ENVIRONMENTAL RESTRICTIONS AS MAY BE OUTLINED AND THE COSTS OF THE REMOVALS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

**TEMPORARY WORK ROAD:**

WORK ROADS SHALL BE CONSTRUCTED TO THE SIZE AND SPECIFICATION AS SHOWN IN THE "TYPICAL SECTION THRU WORK ROAD" ON THIS SHEET. TEMPORARY WORK ROAD TO BE REMOVED AT THE END OF REPAIR WORK. CHANNEL AND STREAM BANKS TO BE RETURNED TO NORMAL FLOW AND CONDITION AFTER THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES.

**ANCHORAGE ASSEMBLIES (REINFORCING STEEL):**

THE CONTRACTOR SHALL HAVE THE OPTION OF THE METHOD BY WHICH TO ANCHOR NEW REINFORCING STEEL TO THE EXISTING STRUCTURE AS SHOWN IN THE PLANS. ANCHORAGE'S INTO THE EXISTING CONCRETE SHALL BE THE SIZE SHOWN IN THE PLANS AND SHALL BE CONNECTED IN ACCORDANCE WITH SECTION 509.04D(3) AND SUBSECTION 701.13 OF THE STANDARD SPECIFICATIONS, AND IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR THE SYSTEM USED.

ALL COSTS TO CONNECT THE NEW REINFORCING AS SHOWN IN THE PLANS INCLUDING, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

**PAY ITEM NOTES**

**(1) FALSEWORK JACKING:**

THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS AND CALCULATIONS OF FALSEWORK DESIGN TO THE BRIDGE ENGINEER FOR APPROVAL. THE FALSEWORK SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER WHO IS CURRENTLY REGISTERED WITH THE OKLAHOMA STATE BOARD OF REGISTRATIONS FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS, IN ACCORDANCE WITH SECTION 502 OF THE 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE ADEQUACY OF ANY FALSEWORK USED DURING THIS WORK. DAMAGE TO THE STRUCTURE DUE TO ANY SETTLEMENT OR FAILURE OF THE FALSEWORK SHALL BE REPAIRED TO SERVICEABLE CONDITION BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

ALL COSTS FOR FALSEWORK AND JACKING INCLUDING LABOR, EQUIPMENT, MATERIALS, PROFESSIONAL SERVICES AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SPECIFIED, SHALL BE INCLUDED IN THE UNIT PRICE BID PER LUMP SUM OF "FALSEWORK JACKING".

**(2) STAINLESS STEEL EXPANSION BEARING ASSEMBLY:**

PROVIDE AND INSTALL EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE, AND LOCATION AS SHOWN IN THE PLANS AND AS DETAILED IN THE REFERENCED AS-BUILT PROJECTS.

ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE EXPANSION BEARING ASSEMBLIES AS SHOWN INCLUDING ANCHOR PLATES, ANCHOR BOLTS, NUTS, WASHERS, LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER UNIT EACH OF "STAINLESS STEEL EXPANSION BEARING ASSEMBLY".

**(3) PENETRATING WATER REPELLENT SURFACE TREATMENT (VISUALLY INSPECTED):**

A PENETRATING WATER REPELLENT SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND SIDES OF THE NEW SECTION OF PIER CAP AND PEDESTAL EXTENSIONS AND TO ALL SIDES OF THE NEW COLUMN REBUILDS AS WELL AS THE REMAINING EXISTING COLUMNS DOWN TO THE TOP OF THE EXISTING SPREAD FOOTING OR AS DIRECTED BY THE ENGINEER. WATER REPELLENT SHALL ALSO BE APPLIED TO THE NEW PILE ENCASEMENTS. THIS WORK SHALL BE DONE ONLY AFTER THE PIER CAP AND BRIDGE SEATS HAVE BEEN SWEEPED CLEAN OF ANY DEBRIS AND AFTER ALL REPAIR ACTIVITIES ARE COMPLETE.

ALL COST OF DOING THE WORK AS DESCRIBED ABOVE INCLUDING LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "WATER REPELLENT (VISUALLY INSPECTED)".

**(4) CORROSION INHIBITOR (SURFACE APPLIED):**

ITEM "CORROSION INHIBITOR (SURFACE APPLIED)" CONSISTS OF DEMOLITION OF THE EXISTING COLUMNS AS SHOWN AND APPLYING A CORROSION INHIBITOR TO THE REINFORCING OF THE EXISTING PIER COLUMNS TO BE REBUILT AND TO THE ABUTMENT PILES TO BE ENCASED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. CORROSION INHIBITOR SHALL ONLY BE APPLIED AFTER ALL UNSOUND CONCRETE IS REMOVED AND THE SURFACE IS CLEANED AND FREE OF DIRT, DUST AND LOOSE MATERIAL.

THE REMOVAL OF UNSOUND CONCRETE AND THE CLEANING OF ANY EXPOSED REINFORCING STEEL, AND THE APPLICATION OF CORROSION INHIBITOR SHALL BE AS SPECIFIED IN SPECIAL PROVISION 535-1 FOR "CORROSION INHIBITOR (SURFACE APPLIED)".

ALL COST FOR THE APPLICATION OF THE CORROSION INHIBITOR INCLUDING LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CORROSION INHIBITOR (SURFACE APPLIED)".

**ENVIRONMENTAL MITIGATION NOTES**

**BALD EAGLE:**

SUITABLE NESTING, ROOSTING OR FORAGING HABITAT FOR THE BALD EAGLE OCCURS WITHIN THE PROJECT'S ACTION AREA. THE BALD EAGLE NESTING SEASON IN OKLAHOMA EXTENDS FROM SEPTEMBER 16, THROUGH MAY 31. THE RESIDENT ENGINEER SHALL CONTACT THE ODOT BIOLOGIST AT 405-521-5215 TO SCHEDULE A NEST SURVEY.

NEST SEARCH SURVEYS CAN ONLY BE CONDUCTED WHEN LEAVES ARE NOT ON THE TREES TYPICALLY BETWEEN DECEMBER 1ST AND FEBRUARY 28TH. NO WORK MAY OCCUR WITHIN SUITABLE BALD EAGLE HABITAT LOCATED BETWEEN STA. 142+00 AND STA 146+00, DURING THE NESTING SEASON (SEPTEMBER 16, THROUGH MAY 31) UNTIL THE COMPLETION OF THE SURVEY.

IF NESTS ARE OBSERVED, A 1,000 FOOT NO-WORK BUFFER SHALL BE PLACED AROUND THE NEST. IF THE BUFFER CANNOT BE MAINTAINED, ALL CLEARING, EXTERNAL CONSTRUCTION AND LANDSCAPING ACTIVITIES, WITHIN 1,000 FEET OF THE NEST, SHALL BE CONDUCTED BETWEEN JUNE 1 AND SEPTEMBER 15, OUTSIDE THE NESTING SEASON.

**AMERICAN BURYING BEETLE:**

THE AMERICAN BURYING BEETLE IS A LARGE CARRION BURYING BEETLE THAT OCCURS WITHIN THE ACTION AREA. NO ARTIFICIAL LIGHTING SHALL BE USED DURING CONSTRUCTION. CARCASSES AND ALL FOOD TRASH SHALL BE REMOVED FROM THE PERMANENT AND TEMPORARY ROW THROUGHOUT THE DURATION OF PROJECT ACTIVITIES. FOLLOWING CONSTRUCTION, TOPSOIL SHALL BE PLACED ON TOP OF ALL AREAS OF GROUND DISTURBANCE, PRIOR TO RE-VEGETATION.

**MIGRATORY BIRD NOTES:**

MIGRATORY BIRDS ARE PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. MANY BIRDS COMMONLY USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR MOST MIGRATORY BIRD SPECIES EXTENDS FROM APRIL 1 TO AUGUST 31.

MIGRATORY BIRD NESTING USE OF THE SH-91 SAND CREEK BRIDGE (NBI09424) WAS OBSERVED. REHABILITATION OF THE EXISTING BRIDGE SHALL BE CONDUCTED BETWEEN SEPTEMBER 1, AND MARCH 31, WHEN MIGRATORY BIRD NESTS ARE NOT OCCUPIED. IF REHABILITATION CANNOT BE COMPLETED BETWEEN SEPTEMBER 1 AND MARCH 31, THE BRIDGE SHALL BE PROTECTED FROM NEW NEST ESTABLISHMENT PRIOR TO APRIL 1, BY MEANS THAT DO NOT RESULT IN BIRD DEATH OR INJURY. OPTIONS INCLUDE THE EXCLUSION OF ADULT BIRDS FROM SUITABLE NEST SITES ON OR WITHIN A STRUCTURE BY THE PLACEMENT OF WEATHER-RESISTANT POLYPROPYLENE NETTING WITH 0.25-INCH OR SMALLER OPENINGS, PRIOR TO APRIL 1. METHODS OTHER THAN NETTING MUST BE PREAPPROVED BY THE ODOT BIOLOGIST.

**GOOD-HOUSEKEEPING REQUIREMENT:**

MATERIAL STORAGE, CHEMICAL STORAGE, TRASH, SANITARY FACILITIES, ETC. SHOULD BE LOCATED NO CLOSER THAN 50 FEET FROM THE BANK OF ANY WATERS IN ORDER TO PROTECT WATER QUALITY.

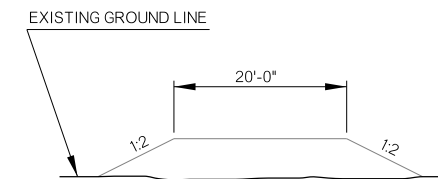
DEBRIS SHALL NOT BE BURIED WITHIN LIMITS OF RIGHT-OF-WAY.

**IMPORTANT!**

ALL DIMENSIONS SHOWN ARE FROM EXISTING AS-BUILT PLANS OR PROVIDED BY ODOT FIELD DIVISION. THE CONTRACTOR SHOULD VERIFY DIMENSION AND ELEVATIONS AS NECESSARY TO CONNECT THE NEW CAP EXTENSION AND COLUMN REBUILD TO THE EXISTING STRUCTURE AS SHOWN IN THE PLANS.

IT IS THE INTENT OF THIS PROJECT TO RETURN THE BRIDGE FINISHED GRADE TO EXISTING AT THE CONCLUSION OF ALL CONSTRUCTION ACTIVITY AND WITH THE REMOVAL OF THE FALSEWORK. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AT TOP OF PIERS AND COLUMNS DURING CONSTRUCTION TO INSURE THE GRADE IS KEPT.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT ANY POSSIBLE DISCREPANCY IN THE PLANS OR DURING CONSTRUCTION WHICH MAY AFFECT THE EXISTING GRADE BEFORE PROCEEDING WITH CONSTRUCTION ACTIVITY. ADJUSTMENTS TO THE CAP AND OR COLUMN MAY BE NEEDED AND SHOULD BE APPROVED BY THE ENGINEER IF REQUIRED.



TYPICAL SECTION THRU WORK ROAD

PAY QUANTITIES					
BRIDGE 'A' - NBI 09424 - SH-91 OVER SAND CREEK					
ITEM	DESCRIPTION	UNIT	QUANTITY		
502 6116	(PL) FALSEWORK JACKING	(1) (BR-1) LSUM	1.00		
507(B) 6174	STAINLESS STEEL EXPANSION BEARING ASSEMBLY	(2) (BR-1) EA.	8.00		
509(B) 1328	CLASS 'A' CONCRETE	(BR-1) C.Y.	17.30		
511(A) 1332	REINFORCING STEEL	(BR-1) LB.	320.00		
511(B) 6010	EPOXY COATED REINFORCING STEEL	(BR-1) LBS.	2,290.00		
515(A) 6013	WATER REPELLENT (VISUALLY INSPECTED)	(3) (BR-1) S.Y.	121.00		
535 6130	(SP) CORROSION INHIBITOR (SURFACE-APPLIED)	(4) (BR-1) S.Y.	16.00		

(BR-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITIES, ONLY. SEE SECTION 109.01(B) OF THE STANDARD SPECIFICATION.

PAY QUANTITIES				
0640 CONSTRUCTION				
ITEM	DESCRIPTION	UNIT	QUANTITY	
641 1399	MOBILIZATION	L.SUM	1.00	

BRIDGE "A"		BRYAN COUNTY		Design	N/A	N/A
SH-91 OVER SAND CREEK				Detail	RAH	7/17
GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (BRIDGE)				Check	TEE	8/17
				Squad Engr:	HENSFLEY DEFRANCO	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION		JOB/PIECE NO. 32756(04) SHEET NO. AB01		