

**GENERAL CONSTRUCTION NOTES**

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE ENGINEER. ALL COST OF TEMPORARY FENCING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

PRIME COAT SHALL BE APPLIED TO THE SUBGRADE IMMEDIATELY AFTER FINAL COMPACTION AND SHAPING TO RETAIN MOISTURE FOR PROPER CHEMICAL REACTION OF THE SOIL ADDITIVE.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

TEMPORARY SEEDING MIX SHALL BE AS FOLLOWS:

KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
PERENNIAL RYEGRASS (LOLIMPERENNE)	20 LBS. OF SEED
CRIMPSON CLOVER (TRIFOLIUM INCARNATUM)	10 LBS. OF SEED

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "MULCHING TILLER METHOD", AS SPECIFIED IN 233.04B(2) OF THE STANDARD SPECIFICATIONS.

THE PLANTING OF TEMPORARY SEEDS SHALL BE RESTRICTED TO THE PERIOD FROM SEPTEMBER FIRST TO OCTOBER FIRST OR MARCH FIRST TO MAY FIFTEENTH.

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEED, SODDED, OR SPRIGGED.

SURFACING OF RETURNS, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE OF THE SAME MATERIAL (BASE AND SURFACE) AS THAT OF THE ABUTTING SHOULDER OF THE MAINLINE. BASE AND SURFACE THICKNESS SHALL BE THE THICKNESS SHOWN ON PLANS.

T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.

EXCESS ASPHALT AT JOINTS AND CRACKS IN EXISTING PAVEMENT SHALL BE REMOVED FLUSH TO TOP OF PAVING IN A MANNER APPROVED BY THE ENGINEER.

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. \*CALL OKIE\* 1-800-522-6543 OR 811.

**PAY ITEM NOTES**

- (R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
  - (R-5) AN ESTIMATED QUANTITY OF 232 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
  - (R-7) FOR SALVAGED TOPSOIL PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER, ESTIMATED AT 150 POUNDS PER ACRE. FOR SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 S.Y.
  - (R-9) ESTIMATED AT 80 GALLONS PER SQ. YD. OF SODDING AND/OR SPRIGGING.
  - (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 5.30 ACRES.
  - (R-16) QUANTITY BASED ON TWO APPLICATIONS.
  - (R-25) ESTIMATED AT 170 LBS. PER CU. FT.
  - (R-28) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL OUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
  - (R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
  - (R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
  - (R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
  - (R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
  - (R-52) INCLUDES 2% FOR GROUND MEASUREMENT.
  - (R-53) ALL GATES AND GATE END POSTS FOR STRANDED WIRE FENCE (SWF) SHALL BE CONSTRUCTED AT THE SAME WIDTH AS THE EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- (1) BORROW SOILS WITH A SULFATE CONCENTRATION GREATER THAN 1000 PPM SHALL BE RESTRICTED.
  - (2) PRICE BID TO INCLUDE COST OF SEDIMENT REMOVAL AS REQUIRED DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER
  - (3) "STABILIZED SUBGRADE" SHALL INCLUDE THE COST OF THE CHEMICAL ADDITIVE TO ACHIEVE THE RATE SPECIFIED FOR THE APPROPRIATE SOIL CLASSIFICATION AS SPECIFIED IN THE MOST CURRENT ODOT MATERIALS DIVISION OHD L-50.
  - (4) UP TO 7 DAYS OR AS DIRECTED BY THE ENGINEER, WILL BE REQUIRED FOR MELLOWING AND RE-MIXING OF SOILS TREATED WITH CHEMICALS IN ORDER TO REDUCE THE POSSIBILITY OF SULFATE HEAVE IN THE SUBGRADE.
  - (5) QUANTITY INCLUDES AN ESTIMATED 80 TONS TO BE USED AS DIRECTED BY THE ENGINEER.
  - (6) PRICE BID TO INCLUDE COST OF TRENCHING AND STANDARD BEDDING MATERIAL CLASS C.
  - (7) THIS PAY ITEM WILL INCLUDE THE SKT-SP-MSG OR APPROVED SUBSTITUTE. THE ET-PLUS WILL NOT BE ALLOWED.
  - (8) CORNER, STRETCHER, AND END POSTS SHALL BE CONSTRUCTED OF SCH. 40 STEEL PIPE, AS SPECIFIED IN STANDARD RFW2-2. PIPE WILL BE WELDED AND TENSION WIRES OMITTED. THE "CORNER AND STRETCHER POST DETAIL ALTERNATIVE" WILL NOT BE USED. FOOTING SHALL INCLUDE CLASS 'A' CONCRETE. ROCK MAY BE ENCOUNTERED DURING THE INSTALLATION OF FENCING.

**PAY QUANTITIES**

0100 ROADWAY			
ITEM	DESCRIPTION	UNITS	QUANTITY
201(A) 0102	CLEARING AND GRUBBING	LSUM	1.00
202(A) 0183	UNCLASSIFIED EXCAVATION (R-1)	CY	6583.00
202(D) 0184	UNCLASSIFIED BORROW (1)	CY	19166.00
205(A) 4229	TYPE A-SALVAGED TOPSOIL (R-5)(R-7)	LSUM	1.00
221(C) 2801	TEMPORARY SILT FENCE (2)	LF	1000.00
221(F) 0100	TEMPORARY SILT DIKE (2)	LF	70.00
230(A) 2806	SOLID SLAB SODDING (R-7)	SY	66764.00
230(F) 2812	WATERING (R-9)	KGAL	5342.00
232(B) 2814	SEEDING METHOD B	AC	13.79
233(A) 2817	VEGETATIVE MULCHING (R-11)	AC	13.79
241 2832	MOWING (R-16)	AC	27.58
307(K) 4300	STABILIZED SUBGRADE (3)(4)	SY	19633.00
402(E) 0225	TRAFFIC BOUND SURFACE COURSE TYPE E (5)(R-25)	TON	358.00
407(B) 0250	TACK COAT	GAL	4046.00
408 5774	PRIME COAT (R-28)	GAL	7209.00
411(B) 5945	SUPERPAVE, TYPE S3(PG 64-22 OK) (R-32)	TON	8091.00
411(C) 5960	SUPERPAVE, TYPE S4(PG 64-22 OK) (R-32)	TON	2097.00
509(C) 0322	CLASS A CONCRETE, SMALL STRUCTURES	CY	1.00
611(L) 0487	JUNCTION BOXES	CF	18.00
613(A) 4497	36" X 22" R.C.PIPE ARCH CLASS A-III (6)	LF	29.00
613(B) 0690	24" CORR. GALV. STEEL PIPE	LF	98.00
613(B) 0691	30" CORR. GALV. STEEL PIPE	LF	52.00
613(B) 0692	36" CORR. GALV. STEEL PIPE	LF	64.00
613(B) 4527	21" X 15" CORR. GALV. STEEL PIPE ARCH	LF	60.00
613(L) 4526	36" X 22" PREFAB. CULVERT END SEC., ARCH	EA	1.00
613(M) 7186	TYPE A4 CULVERT END TREATMENT	EA	1.00
613(M) 7187	TYPE B4 CULVERT END TREATMENT	EA	2.00
613(M) 7188	TYPE C4 CULVERT END TREATMENT	EA	1.00
613(M) 7189	TYPE D4 CULVERT END TREATMENT	EA	1.00
613(M) 7196	TYPE A6 CULVERT END TREATMENT	EA	1.00
613(M) 7197	TYPE B6 CULVERT END TREATMENT	EA	2.00
613(M) 7198	TYPE C6 CULVERT END TREATMENT	EA	1.00
613(M) 7199	TYPE D6 CULVERT END TREATMENT	EA	1.00
619(A) 0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS (R-48)(R-49)	LSUM	1.00
619(B) 4728	REMOVAL OF ASPHALT PAVEMENT (R-49)(R-50)	SY	9756.00
619(C) 0924	SAWING PAVEMENT	LF	92.00
623(A) 0932	BEAM GUARDRAIL W-BEAM SINGLE	LF	325.00
623(G) 8590	GUARDRAIL END TREATMENT (31") (7)	EA	4.00
623(I) 8700	GUARDRAIL BRIDGE CONN-THRIE BEAM (31")	EA	4.00
624(C) 4459	FENCE-STYLE SWF (5 BARBED WIRE) (8)(R-52)(R-53)	LF	1315.00
624(C) 7181	FENCE-STYLE SWF (6 BARBED WIRE) (8)(R-52)(R-53)	LF	1662.00
853 9033	DELINEATORS(TYPE 2, CODE 1)	EA	12.00

**SUGGESTED SEQUENCE OF CONSTRUCTION**

**PHASE I**

- CONSTRUCT WEST HALF OF NEW BRIDGE 'B' AND EXTEND BRIDGE 'A' (ACCORDING TO GP&E SHEETS)
- CONCURRENTLY, CONSTRUCT SOUTHBOUND DRIVING LANE AND SHOULDER OF TYPICAL #1 (EXCLUDING TOP LIFT OF AC S4)
- MAINTAIN ONE LANE OF TRAFFIC WITH A TEMPORARY TRAFFIC SIGNAL



**PHASE II**

- MOVE TRAFFIC TO NEWLY CONSTRUCTED SOUTHBOUND DRIVING LANE
- MAINTAIN ONE LANE OF TRAFFIC WITH A TEMPORARY TRAFFIC SIGNAL
- CONSTRUCT EAST HALF OF NEW BRIDGE
- CONCURRENTLY, CONSTRUCT NORTHBOUND DRIVING LANE AND SHOULDER OF TYPICAL #1 (EXCLUDE TOP LIFT OF AC S4)

**PHASE III**


- MOVE TRAFFIC TO NEWLY CONSTRUCTED MAINLINE AND BRIDGE
- OVERLAY MAINLINE WITH TOP LIFT AC S4
- FINAL SIGNING AND STRIPING

PREPARED BY:  
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION

RANDY D. WOODS, P.E.  
OKLA. REG. NO. 27224

DATE 8-4-17



DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
DRAWN	LS		
CHECKED			
APPROVED			
SQUAD	GREEN		
COUNTY <u>COMANCHE</u> HIGHWAY <u>US-277</u> STATE JOB NO. <u>27968(04)</u> SHEET NO. <u>AR01</u>			

**SUMMARY OF PAY QUANTITIES & NOTES (ROADWAY)**