

6/2/2016 M:\7697\01\0\US-277 Deep Red Creek\Plans\04 SUMMARY OF PAY QUANTITIES-Roadway.dwg CH. GUERNSEY & COMPANY - OK, CA (10) PE Expires 06/30/16

GENERAL CONSTRUCTION NOTES

Grading and Site work

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES. 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 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.

Erosion Control

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04B(1) OF THE STANDARD SPECIFICATIONS.

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 SEEDED, SODDED, OR SPRIGGED.

Surfacing

AGGREGATE BASE ON DETOUR ROADS, REMOVED AND RELAID FOR SHOULDERS, DRIVEWAYS AND/OR RETURNS ON MAIN ROADWAY, SHALL MEET THE SPECIFICATIONS FOR "AGGREGATE BASE" WHEN RELAID, NO PLANT MIXING WILL BE REQUIRED FOR THIS MATERIAL.

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

Final clean up

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 EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

PAY QUANTITY NOTES

- (1) PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER ESTIMATED AT 150 POUNDS OF TRIPLE SUPERPHOSPHATE PER ACRE OF AREA ON WHICH TOPSOIL IS TO BE REPLACED.
- (2) TO BE USED AS DIRECTED BY THE ENGINEER.
- (3) QUANTITY INCLUDES AN ESTIMATED 100 TONS TO BE USED AS DIRECTED BY THE ENGINEER.
- (4) BORROW SOILS SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS. THE SOILS MAPPED WITHIN CLOSE PROXIMITY TO THE THE PROJECT TYPICALLY HAVE ORGANIC SURFACE LAYERS EXTENDING TO DEPTHS DOWN TO 27 INCHES. THESE LAYERS MUST NOT BE INCLUDED IN THE BORROW SOILS FOR ROADWAY. INCLUDES 14,700 C.Y. OF UNDERCUT TO BECOME PROPERTY OF THE CONTRACTOR.
- (5) UNDERDRAIN COVER MATERIAL TO BE INCLUDED IN COST OF UNDERDRAIN PIPE.
- (6) 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.
- (7) QUANTITY FOR DRAINS AT ENDS OF BRIDGES. SEE SHEETS 52, 65 & 97.
- (8) NO ET+ SYSTEMS TO BE USED
- (9) OHD L-50:
"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.
- (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 15,308 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 SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 S.Y. OF SODDING.
- (R-8) FOR SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 80 GALLONS PER S.Y. OF SODDING.
- (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 23 ACRES.
- (R-25) ESTIMATED AT 120 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 CUTBACK 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-41) QUANTITY INCLUDES AN ESTIMATED 9 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-46) ANY DRAINAGE STRUCTURE DESCRIBED AS TEMPORARY, SHALL AFTER COMPLETION OF THE PROJECT, BE REMOVED BY AND BECOME THE PROPERTY OF THE CONTRACTOR.
- (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-51) INCLUDES 75 L.F. OF 23' RADIUS BEND.
- (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.

ADDITIONAL NOTES:

ACCESS SHALL BE ALLOWED THROUGH THE PROJECT FOR PROPERTY OWNERS WITH PROPERTY ON BOTH SIDES OF THE PROJECT TO CARE FOR LIVESTOCK OR OTHER AGRICULTURAL PURPOSES.

JP 28036(04) 0100 ROADWAY				
SUMMARY OF PAY QUANTITIES				
PAY ITEM NUMBER	LINE NUMBER	DESCRIPTION	QUANTITY	UNIT
201(A)	0102	CLEARING AND GFUBBING		1 L.SUM
202(A)	0183	UNCLASSIFIED EXCAVATION	(4)(R-1)	36199 C.Y.
202(D)	0184	UNCLASSIFIED BORROW	(4)	116124 C.Y.
203	7116	TEST ROLLING		1 L.SUM
205(A)	4229	TYPE A -SALVAGEE TOPSOIL	(1)(R-5)	1 L.SUM
221(C)	2801	TEMPORARY SILT FENCE		9942 L.F.
221(F)	0100	TEMPORARY SILT DIKE		1014 L.F.
230(A)	2806	SOLID SLAB SODDING	(R-7)(R-8)	110388 S.Y.
233(A)	2817	VEGATATIVE MULCHING	(R-11)	23 AC.
241	2832	MOWING		46 AC.
303(A)	2100	AGGREGATE BASE TYPE A		8395 C.Y.
307(K)	4300	STABILIZED SUBGRADE	(9)	28734 S.Y.
310(B)	0149	SUBGRADE, METHDD B		3344 S.Y.
325	5271	SEPARATOR FABRIC		30633 S.Y.
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E	(3)(R-25)	92 TON
407(B)	0250	TACK COAT		3795 GAL.
408	5774	PRIME COAT	(R-28)	8630 GAL.
411(B)	5945	SUPERPAVE, TYPE 53(PG 64-22 OK)	(R-32)	7188 TON
411(C)	5960	SUPERPAVE, TYPE 54(PG 64-22 OK)	(R-32)	3112 TON
501(A)	0313	STRUCTURAL EXCAVATION UNCLASSIFIED		15.37 C.Y.
509(A)	0319	CLASS AA CONCRETE		81 C.Y.
509(B)	0321	CLASS A CONCRETE	(7)	50 C.Y.
509(D)	0325	CLASS C CONCRETE	(R-41)	46.31 C.Y.
511(A)	0332	REINFORCING STEEL		11580 LB.
601(B)	0536	TYPE I-A PLAIN RIPRAP		155 TON
601(C)	0538	TYPE I-A FILTER BLANKET		52 TON
611(G)	6002	INLET (SMD-TYPE 2)		1 EA.
613(A)	0492	24" R.C. PIPE CLASS III		90 L.F.
613(B)	0689	18" CORR. GALV. STEEL PIPE		110 L.F.
613(B)	0690	24" CORR. GALV. STEEL PIPE		225 L.F.
613(B)	0692	36" CORR. GALV. STEEL PIPE		168 L.F.
613(H)	0450	6" PERFORATED PIPE UNDERDRAIN ROUND	(5)	500 L.F.
613(I)	1096	6" NON-PERF. PIPE UNDERDRAIN RND.	(5)	100 L.F.
613(L)	5730	24" PREFAB. CULVERT END SECTION, ROUND		1 EA.
613(M)	7186	TYPE A4 CULVERT END TREATMENT		6 EA.
613(M)	7187	TYPE B4 CULVERT END TREATMENT		6 EA.
613(M)	7194	TYPE DD4 CULVERT END TREATMENT		2 EA.
619(A)	0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(R-48)	1 L.SUM
619(B)	4725	REMOVAL OF FENCE	(R-48)(R-49)	11081 L.F.
619(B)	4728	REMOVAL OF ASPHALT PAVEMENT	(R-49)(R-50)	19352 S.Y.
619(B)	4780	REMOVAL OF GUARDRAIL	(R-49)	1796 L.F.
619(C)	0924	SAWING PAVEMENT		1495 L.F.
623	0100	(PL) GUARDRAIL C.JRBING		6 EA.
623(A)	0932	BEAM GUARDRAIL W-BEAM SINGLE	(R-51)	1537.50 L.F.
623(F)	8300	GUARDRAIL TRAIL END TURNDOWN (31")		2 EA.
623(G)	8590	GUARDRAIL END TREATMENT (31")	(8)	10 EA.
623(I)	8700	GUARDRAIL BRIDGE CONN-THREE BEAM (31")		12 EA.
624(B)	4466	GATES-STYLE WWF (4.5' HIGH x 16' LONG)		6 EA.
624(C)	4459	FENCE-STYLE SWF (5 BARBED WIRE)	(6)(R-52)(R-53)	9281 L.F.

JP 28036(04) 0600 STAKING				
SUMMARY OF PAY QUANTITIES				
PAY ITEM NUMBER	LINE NUMBER	DESCRIPTION	QUANTITY	UNIT
642(B)	0096	CONSTRUCTION STAKING LEVEL II		1 L.SUM

JP 28036(04) 0640 CONSTRUCTION				
SUMMARY OF PAY QUANTITIES				
PAY ITEM NUMBER	LINE NUMBER	DESCRIPTION	QUANTITY	UNIT
220	2800	SWPPP DOCUMENTATION AND MANAGEMENT		1 L.SUM
640(A)	1426	FIELD OFFICE		1 EA.
641	1552	MOBILIZATION		1 L.SUM

Design			<h2 style="margin: 0;">SUMMARY OF PAY QUANTITIES</h2> <h3 style="margin: 0;">ROADWAY</h3>
Drawn			
Checked			
Approved			
Squad	GUERNSEY		
STATE JOB No. <u>28036(04)</u> Sheet No. <u>4</u>			