## ROADWAY GENERAL CONSTRUCTION NOTES:

THE EXISTING ROAD SHALL REMAIN CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT LAND OWNERS

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 TIEMS 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 FRIGINEER.

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

THE CONTRACTOR SHALL NOTIFY THE MUSKOGEE COUNTY BOARD OF COMMISSIONERS, CED#2, AND ODOT DIVISION I OFFICE IN MUSKOGEE, IN WRITING, FOURTEEN CALENDAR DAYS PRIOR TO BEGINNING CONSTRUCTION.

#### **EROSION CONTROL CONSTRUCTION NOTES:**

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "MULCHING TILLER METHOD", AS SPECIFIED IN 233.04(8) 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.

#### **ROADWAY PAY QUANTITY NOTES:**

- (R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
- (R-4) INCLUDES 200 C.Y. FOR DRIVEWAYS, RETURNS, DIKES, AND MISCELLANEOUS EARTHWORK.
- (R-5) AN ESTIMATED QUANTITY OF 780 CY 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 TO CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
- (R--7) PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER, ESTIMATED AT 150 POUNDS PER ACRE.
- (R-8) PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 8D GALLONS PER S.Y..
- (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 1.5 ACRES.
- (R-25) ESTIMATED AT 140 LBS PER CU FT.
- (R-41) QUANTITY INCLUDES AN ESTIMATED 10 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-48) INCLUDED REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- (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) INCLUDES REMOVAL OF SOME HEAVY TIMBER. CLEARING AND GRUBBING TO BE THE MINIMUM AMOUNT REQUIRED FOR CONSTRUCTION AND INSTALLATION OF R/W FENCE.
- (2) EXCAVATION REQUIRED TO COMPLETE THE PROJECT OR NOTED AS "UNCLASSIFIED EXCAVATION" SHALL BE CONSIDERED AS INCIDENTAL TO THE EMBANKMENT AND WILL NOT BE A PAY ITEM.
- (3) QUANTITY INCLUDES 984 C.Y. TO BE USED IF EXISTING ON—SITE MATERIAL IS UNSUITABLE FOR USE IN EMBANKMENT AS DIRECTED BY THE ENGINEER.

## ROADWAY PAY QUANTITY NOTES:

- (4) THE CONTRACTOR MUST PROVIDE TESTING RESULTS FROM A CERTIFIED LAB THAT THE BORROW SITE IS FREE FROM DISPERSIVE CLAYS AS REQUIRED IN SECTION 202.02(A) IN THE 2009 SPEC BOOK BEFORE ANY MATERIAL CAN BE PLACED ON THE PROJECT. COST TO BE INCLUDED IN PAY ITEM FOR UNCLASSIFIED BORROW.
- (5) PRICE BID INCLUDES COST OF REMOVING AND DISPOSING OF SEDIMENT ACCUMULATED BY SEDIMENTATION DEVICE. SEDIMENT SHALL BE REMOVED WHEN DEVICE IS HALF FULL.
- (6) PRICE BID TO INCLUDE THE COST OF (10-20-10) FERTILIZER. ESTIMATED AT 200 LB. PER 1000 S.Y. OF SODDING.
- (7) PRICE BID INCLUDES THE COST OF 4 TYPE 1 CODE 3 DELINEATORS. (AMBER COLOR)
- (8) CONSTRUCTION SIGNING WILL BE INSTALLED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH CHAPTER VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION, AND APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL REQUIRED FOR COMPLETION OF THIS PROJECT.
- (9) IN ADDITION TO THE RESPONSIBILITIES SHOWN IN THE SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND/OR REESTABLISHING THE SURVEY CONTROL POINTS SHOWN ON THE PLANS, STAKING THE CENTERLINE OF CONSTRUCTION, CALCULATING AND STAKING HAUNCH GRADES ON BRIDGE "A", AND REESTABLISHING RIGHT-OF-WAY STAKES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING BENCH MARKS SHOWN ON THE PLANS AND FOR ESTABLISHING NEW BENCH MARKS AS NEEDED TO CONSTRUCT THE PROJECT.
- (10) GATES SHALL BE 16' LONG TUBE GATES (PAINTED) WITH 2" STEEL TUBE SPREAD EVENLY TO PROVIDE 6 RAILS OR APPROVED EQUAL. PRICE BID TO INCLUDE HINGES, LATCHES, AND ALL OTHER HARDWARE NECESSARY FOR INSTALLATION

### **ENVIRONMENTAL NOTES**

# NORTHERN LONG-EARED BATE NOTE:

THE NORTHERN LONG-EARED BAT, AN INSECTIVOROUS MIGRATORY BAT SPECIES PROTECTED BY THE ENDANGERED SPECIES ACT, OCCURS WITHIN THIS COUNTY. BIOLOGICAL STUDIES HAVE IDENTIFIED SUITABLE SUMMER ROOSTING OR FORAGING HABITAT WITHIN THE PROJECT'S ACTION AREA. IN ORDER TO AVOID ADVERSE IMPACTS TO NORTHERN LONG-EARED BATS THE FOLLOWING MEASURES SHALL BE TAKEN:

- 1.ALL REMOVAL OF LIVE OR DEAD TREES, GREATER THAN 3 INCHES DIAMETER AT BREAST HEIGHT (DBH), NECESSARY FOR CONSTRUCTION OR UTILITIES SHALL BE CONDUCTED BETWEEN NOVEMBER 16 AND MARCH 31
- 2.IF REMOVAL OF TREES CANNOT BE DONE BETWEEN NOVEMBER 16 AND MARCH 31, THE LOCAL GOVERNMENT DIMISION OR THE RESIDENT ENGINEER NEEDS TO CONTACT THE ODOT BIOLOGIST AT (405) 521-2515 TO SCHEDULE A SPECIES SURVEY PRIOR TO START OF WORK. THE SURVEY CAN ONLY TAKE PLACE BETWEEN MAY 15 AND AUGUST 15. THE SURVEY AND ASSOCIATED USFWS CONSULTATION COULD TAKE 60 DAYS OR MORE TO COMPLETE. IF BATS ARE FOUND TO BE USING THE TREES FOR ROOSTING, THE TREES CANNOT BE REMOVED UNTIL NOVEMBER 16.

### CLIFF SWALLOWS AND BARN SWALLOWS NOTE:

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. ANY ACTIVITIES WHICH WOULD DESTROY ACTIVE NESTS OR HARM EGGS OR BIRDS WOULD VIOLATE THE MIGRATORY BIRD TREATY ACT. SWALLOW SURVEY HAS NOT BEEN CONDUCTED FOR ANY OF THE STRUCTURES WITHIN THE PROJECT EXTENT. RESPONSE OF SWALLOWS TO THE PLANNED WORK HAS NOT BEEN ASSESSED. THE RESIDENT ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDE WHETHER THE PROPOSED WORK WOULD POSE DISRUPTION TO ANY NESTING BIRDS BEFORE WORK NEAR THE STRUCTURE IS AUTHORIZED. IF THE PROPOSED WORK WILL HARM ANY 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.

AMERICAN BURYING BEETLE- NO ARTIFICIAL LIGHTING SHALL BE USED DURING CONSTRUCTION. CARCASSES AND ALL FOOD TRASH SHALL BE REMOVED FROM THE PERMANENT AND TEMPORARY RIGHT-OF-WAY THROUGHOUT PROJECT ACTIVITIES.

# CALL OKIE

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.

# RESPONSIBILITIES OF COUNTY

- RIGHT-OF-WAY ACQUISITION
   RELOCATION OF UTILITIES
- 3. DETOUR SIGNING OUTSIDE LIMITS OF CONSTRUCTION

ROADWAY	0100	PAY QUANTITIES (ROADWAY)		J/P	31162(04)
SPEC. NO.	BAMS NO.	DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
201(A)	0102	CLEARING AND GRUBBING	R-48,1	LSUM	1.00
202(D)	0184	UNCLASSIFIED BORROW	R-1,R-4,2,3,4	C.Y.	10000.00
205(A)	4229	TYPE A-SALVAGED TOPSOIL	R-5,R-7	LSUM	1.00
221(C)	2801	TEMPORARY SILT FENCE	5	LF	1000.00
221(F)	0100	TEMPORARY SILT DIKE	5	LF	196,00
230(A)	2806	SOLID SLAB SODDING	R-8,6	SY	8000.00
233(A)	2817	VEGETATIVE MULCHING	R-11	AC	1.50
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE—E	R-25	TON	740.00
509(D)	0325	CLASS C CONCRETE	R-41	CY	10.00
613(B)	0689	18" CORR. GALV. STEEL PIPE		LF	40.00
613(L)	5726	18" PREFAB. CULVERT END SECTION, ROUND		EA	2.00
623(F)	4446	GUARD RAIL ANCHOR UNIT TYPE A	7	EA ,	4.00
623(F)	5686	GUARD RAIL ANCHOR UNIT TYPE D-BF		EA	4.00
624(C)	4459	FENCE-STYLE SWF (5 BARBED WIRE)	R-52,R-53	LF	2380.00
624(D)	4470	GATE, GALVANIZED STEEL	10	EA	2:00
880(J)	8905	CONSTRUCTION TRAFFIC CONTROL	8	LSUM	1.00

STAKING 0600		PAY QUANTITIES (ROADWAY)	J/P 31162(04			
SPEC. NO.	BAMS NO.	DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY	
642(B)	0096	CONSTRUCTION STAKING LEVEL II	9	LSUM	1.00	
	J	<u> </u>	<u></u>			

CONSTRUCTION 0640 PAY QUANTITIES (ROADWAY)			J/P 31162(04)		
BAMS NO.	DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY	
2800	SWPPP DOCUMENTATION AND MANAGEMENT		LSUM	1.00	
1399	MOBILIZATION		LSUM	1.00	
<b> </b>					
	BAMS NO. 2800	BAMS NO. DESCRIPTION 2800 SWPPP DOCUMENTATION AND MANAGEMENT	BAMS DESCRIPTION PAY ITEM NOTES 2800 SWPPP DOCUMENTATION AND MANAGEMENT	BAMS NO. DESCRIPTION PAY ITEM NOTES UNIT 2800 SWPPP DOCUMENTATION AND MANAGEMENT LSUM	

CLOUD CREEK

THE CONTRACTOR SHALL PROVIDE ALL

BE INCLUDED IN OTHER ITEMS OF WORK.

TEMPORARY FENCING AS REQUIRED. COST TO

MUSKOGEE COUNTY Design TE 05/1Detail RR 05/1-

SUMMARY OF PAY QUANTITIES & NOTES (ROADWAY)

ANTITIES & Check TE 05/1/AY) Check TE 05/1UPDIKE & BELLEN, INC

STATE OF DEPARTMENT OF TRANSPORTATION
OKLAHOMA Stote J/P No. 31162(04) Sheet No. 3