TRAFFIC GENERAL CONSTRUCTION NOTES

THE CONTRACTOR SHALL PROVIDE A PERSON TO BE ON 24 HOUR CALL AS NEEDED AS DETERMINED BY THE ENGINEER. THIS PERSON SHALL HOLD A CURRENT CERTIFICATION FROM THE AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA) OR THE OKLAHOMA TRAFFIC ENGINEERING ASSOCIATION (OTEA) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFIC CONTROL DEVICES "CHANNELIZING DEVICES SHALL HAVE A MINIMUM HEIGHT OF 36 INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY TRAFFIC CONTROL DEVICES, AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DEVICE DURING CONSTRUCTION

TRAFFIC PAY QUANTITY NOTES

- (TC-13) A PART, OR ALL, OF THIS ITEM IS INTENDED FOR REPLACEMENT OF REMOVED EXISTING CONFLICTING STRIPING.
- SEE STANDARD DRAWING PM1-1, PM2-1, PM3-1, PM4-1, PM5-1, PM6-1, PM7-1, PM8-1 (LATEST REVISION). (TC-14) A PART, OR ALL, OF THE QUANTITY SHOWN IS TO BE USED AS FINAL PAVEMENT MARKING
- AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL. IF NECESSARY (TC-22) SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT REVISED MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS AND SYMBOLS, AS SHOWN IN THE PLANS. THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE
- ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION (TC-25) PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT. ALL SIGNS AND BARRICADES, WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-52) ANY USED CHANGEABLE MESSAGE SIGN AND TRUCK MOUNTED ATTENUATOR TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT
- THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER. (TC-70)
- TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT (TC-75) ARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
- ANY TRUCK MOUNTED ATTENUATOR USED ON THIS PROJECT SHALL HAVE PASSED ALL MANDATORY AND OPTIONAL TESTS LISTED IN NCHRP 350, TL-3 CRITERIA. THIS ITEM IS TO BE USED WHERE SHOWN IN THE STANDARD DRAWINGS OR AT THE DISCRETION OF THE ENGINEER ON SHADOW VEHICLES PROTECTING THE (TC-76) WORK AREAS AND TEMPORARY ROADSIDE HAZARDS.
- TRUCK MOUNTED ATTENUATORS ARE TO BE INSTALLED ON NON-STATE OWNED TRUCKS HAVING A MINIMUM (TC-77) GROSS WEIGHT RATING OF 15,000 POUNDS. EACH OF THESE TRUCKS SHALL ALSO BE EQUIPPED WITH AN ARROW DISPLAY (TYPE B).
- 15 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED (TC-84) QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED (TC-85) CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: http://www.okladot.state.ok.us/traffic/gpl/index.php

TRAFFIC SIGNING PAY QUANTITY NOTES

- QUANTITY SHOWN INCLUDES 60 L.F. TRAFFIC STRIPE (PLASTIC)(WHITE) AND WILL BE MEASURED (TS-23) BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE
- INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING (TS-33) THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1-(LATEST REVISION).
- (TS-34) INCLUDED IN THIS PAY ITEM IS THE REMOVAL OF ANY EXISTING SIGNS TO BE REPLACED BY NEW ASSEMBLIES AND THE REMOVAL OF ANY EXISTING SIGNS THAT WILL BE IN CONFLICT WITH THE NEW ROADWAY OR NEW SIGNAGE
- "REMOVAL OF EXISTING SIGNS" SHALL INCLUDE THE REMOVAL OF A COMPLETE SIGN ASSEMBLY WHICH MAY INCLUDE MULTIPLE SIGNS, POSTS, FOOTINGS, AND ANY FOOTINGS ADJACENT TO THE SIGN ASSEMBLY. WHEN APPROVED BY THE ENGINEER, FOOTINGS MAY BE OBLITERATED TO A POINT BELOW GROUND LEVEL IN LIEU OF (TS-41) BEING COMPLETELY REMOVED. SEE GENERAL CONSTRUCTION NOTES FOR DISPOSAL OF OLD CONCRETE

▲ ENVIRONMENTAL MITIGATION NOTES

AMERICAN BURYING BEETLE NOTE

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

SPECIAL NOTES

(SP-1) PORTABLE CHANGEABLE MESSAGE SIGNS TO BE PLACED WHERE DEEMED NECESSARY BY THE ENGINEER.

- PORTABLE CHANGEABLE MESSAGE SIGN(S) SHALL BE PLACED 14 DAYS PRIOR TO CONSTRUCTION
- INCLUDED IN THIS PAY ITEM IS THE REMOVAL OF EXISTING SIGNS BY THE CONTRACTOR. THESE REMOVED (SP-3) ITEMS SHALL BECOME PROPERTY OF DIVISION 3 AND DELIVERED TO A STORAGE LOCATION DESIGNATED BY THE DIVISION
- (SP-4) PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COST FOR THE SQUARE PEDESTAL CAST ALUMINUM BASE AND COLLAR AND ALL HARDWARE ASSOCIATED WITH PROPERLY INSTALLING THIS SIGN IN ACCORDANCE WITH STANDARD RWES1-1-(LATEST REVISION)
- INCLUDED WITH THIS PAY ITEM SHALL BE THE STRUCTURAL CONCRETE AND REINFORCING STEEL FOR THE (SP-5) ASSEMBLY FOOTING AS WELL AS THE 4" GALVANIZED STEEL PIPE.
- THE CONTRACTOR SHALL SET THE ON-OFF TIME AS FOLLOWS UNLESS SPECIFIED BY THE SCHOOL (SP-6) SUPERINTENDENT

- PRICE BID FOR THIS ITEM SHALL INCLUDE ALL COST FOR THE SOLID STATE FLASHER CONTROLLERS (TYPE II) AND ALL HARDWARE ASSOCIATED WITH PROPERLY INSTALLING THE CONTROLLERS IN ACCORDANCE WITH STANDARD RWSF1-1-(LATEST REVISION).
- THIS PROJECT SHALL INCLUDE SIX (6) YELLOW 1 WAY 1 SECTION ADJUSTABLE LED SIGNAL HEADS, TYPE S-22.THE LED TRAFFIC MODULES, LENSES AND ALL ASSOCIATED MATERIAL AND EQUIPMENT (SP-8) SHALL CONFORM TO I.T.E. VEHICLE TRAFFIC CONTROL SIGNAL HEAD (VTCSH) STANDARDS IN EFFECT AT THE TIME THAT THE ORDER IS PLACED. LED HEADS SHALL BE CAPABLE OF OPERATING WITHOUT A REFLECTOR.
- (SP-9) TRI-HEAD BEACON SOLAR-POWERED

DESCRIPTION THE MANUFACTURER SHALL PROVIDE A TRI-HEAD (2 FRONT AND 1 CONFIRMATION) SOLAR-POWERED LED BEACON ASSEMBLY. THIS BEACON'S HIGH-INTENSITY LEDS ARE VISIBLE IN ALL WEATHER AND AMBIENT LIGHT CONDITIONS.

EUNCTIONAL REQUIREMENTS

PER FHWA GUIDELINES, WHEN FLASHED, THE LED BEACONS SHALL FLASH SIMULTANEOUSLY AT A RATE OF MORE THAN 50 AND LESS THAN 60 TIMES PER MINUTE. WHEN INSTALLED, THE SOLAR PANEL COLLECTOR MUST FACE SOUTH FOR OPTIMAL PERFORMANCE OF THE UNIT.

MATERIALS

THE MANUFACTURER SHALL PROVIDE A COMPLETE SOLAR-POWERED LED BEACON ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO: 3 AMBER LED INDICATIONS, HOUSING, LENS, SOLAR PANEL, BATTERY, ALLMINUM CABINET, POLE, POLE BASE WITH J-BOLTS, AND ELECTRICAL COMPONENTS INCLUDING CONTROLLER.

THE LED BEACON ASSEMBLY SHALL INCLUDE THE FOLLOWING ITEMS:

LED BEACONS

•THE BEACONS SHALL MEET THE COLOR AND UNIFORMITY OF ITE VTCSH LED CIRCULAR SIGNAL •THE LED BEACON'S COLOR UNFORMITY SHALL EXCEPT THE TESTANDARD •THE LED BEACON SHALL HAVE A 12" (300MM) ABRASION-RESISTANT CONVEX LENS. •BEACON HEADS WILL BE POLYCARBONATE BLACK

•THE MODULE LENS SHALL HAVE A CLEAR OR TINTED UV ACRYLIC

SOLAR PANEL

•THE SOLAR PANEL SHALL PROVIDE UP TO 55 WATTS PEAK TOTAL OUTPUT. •THE SOLAR PANEL SHALL BE MOUNTED TO AN ALUMINUM PLATE AND BRACKET AT AN ANGLE OF 45°- 60°TO PROVIDE MAXIMUM OUTPUT.

•ALL FASTENERS USED SHALL BE ANTI-VANDAL

•THE SYSTEM AVERAGE STATE OF CHARGE SHALL BE 90% AND LOSS OF LOAD SHALL BE ZERO THROUGHOUT THE YEAR •THE PHOTOVOLTAIC MODULE SHALL PROVIDE 12 VDC AND BE CAPABLE OF RECHARGING THE SYSTEM TO FULL CAPACITY AFTER 6 HOURS IN 3 HOURS OF OPTIMUM SUN CONDITIONS.

 SOLAR MODULES SHALL BE INDUSTRIAL GRADE.
MODULE CONSTRUCTION WILL UTILIZE LOW IRON TEMPERED GLASS SURFACE WITH AN INDUSTRIAL GRADE ALUMINUM FRAME

•A UV RESISTANT JUNCTION BOX, WIRE TERMINATION SHALL BE PROVIDED.

CONTROL CIRCUIT •THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY OF FLASHING LED BEACON. • THE CONTROL CIRCUIT SHALL HAVE 11FE CAPABILITY OF FLASHING LED BEACON. THE FLASHING OUTPUT SHALL HAVE 11-59 PERIODS OF FLASHING PER MINUTE THE OUTPUT SHALL REACH THE OUTPUT CURRENT AS PROGRAMMED FOR THE DURATION OF THE PULSE.

 THE CONTROL CIRCUIT SHALL BE INSTALLED IN A NEMA RATED 3R ENCLOSURE.
CONTROL CIRCUIT SHALL BE CAPABLE OF STORING INPUT COUNT DATA STORED IN PRESET INTERVALS USING A WINDOWS BASED PC SOFTWARE PROGRAM AND STANDARI RS232 PROGRAMMING CABLE.

• THE CONTROLLER SHALL HAVE AN ONBOARD, SOLID STATE, CHARGE CONTROL CIRCUIT TO INSURE PROPER CHARGING ON THE SYSTEM BATTERY BANK • AN LED/LCD SHALL BE PROVIDED TO INDICATE SOLAR PANEL CHARGING

BATTERY

•BATTERY UNIT SHALL BE A 12VDC SEALED AGM BATTERY. BATTERY SHALL HAVE 48 AMP HOUR CAPACITY •THE BATTERY SHALL BE SPILL PROOF

WARRANTY

THE SYSTEM SHALL BE SUPPORTED BY A THREE YEAR LIMITED WARRANTY (INCLUDING BATTERIES).

		PAY QUANTITY SCHEDULE						
0300 TRAFFIC CONTROL								
	PAY ITEM							
	857(F)	8006	PAVEMENT MARKING REMOVAL(TRAFFIC STRIPE) (TC-22,70,75	LF	56.00			
	876(A)	8482	(PL) TRUCK MOUNTED ATTENUATOR (TC-52,76,77,84	SD	30.00			
	880(I)	8902	FLAGGER (TC-70	SD	5.00			
	880(J)	8905	CONSTRUCTION TRAFFIC CONTROL (TC-25	LSUM	1.00			
	882(A)	8306	PORT. CHANGEABLE MESSAGE SIGN (SP-1,2)(TC-52,84,85	SD	58.00			

PAY QUANTITY SCHEDULE

PAY QUANTITY SCHEDULE

PAY QUANTITY SCHEDULE

0301 TRA	FFIC SIGN	IING & STRIPINO
PAY	CODE	
ITEM	NO.	
805(A)	8724	(PL)REMOVAL
805(D)	8756	(PL)REMOVE &
836	8425	REGULATORY
850(A)	8110	SHEET ALUMIN
851(C)	8324	2" SQUARE TU
855(A)	8825	TRAFFIC STRI

0305 SIG	NALS	
PAY ITEM	CODE NO.	
827	8623	SOLID STATE
831	8301	1 WAY 1 SEC.

0640 CO	NSTRUCT	ON
PAY ITEM	CODE NO.	
641	1552	MOBILIZATION

SUMMARY OF SIGN QUANTITIES FOR URBAN AREA FOR REGULATORY SIGNS								
			SQUARE TUBE POST 2"	SIGN AREA SHEET 850(A)	REMOVALOF EXIST.SIGNS 805(A)	REMOVE & RESET EXIST. SIGNS 805(D)		
ITEM NO.	APPROXIMATE LOCATION	SIGN DESCRIPTION	А	S.F.	EA	ΕA	REMARKS	
1	LT	R2-1(25),S5-2	16.50	5.00		1.00	RESET S5-2 ON NEW POST WITH R2-1(25)	
2	RT	S4-3P, R2-1, & S4-1P			1.00		REMOVE	
3	RT	S5-1 Flasher		8.00			NEW	
4	LT	S1-1 & W16-7P					RELOCATED SIGNS FROM #5	
5	LT	S1-1 & W16-7P				1.00	REMOVE & RESET TO SIGN LOCATION #4	
6	RT	S5-2 & R2-1(35)				1.00	REMOVE & RESET TO SIGN LOCATION #9	
7	RT	R2-1(35)	15.50	5.00			NEW	
8	LT	S4-3P, R2-1, & S4-1P			1.00		REMOVE	
9	RT	S5-2 & R2-1(35)					RELOCATED SIGNS FROM #6	
10	LT	S5-1 Flasher		8.00			NEW	
	τοτα	L	32.00	26.00	2.00	3.00		

DIVISION 3	PONTOTOC COUNTY	DETAIL:	CLD	06/17	
SH-01			GF	06/17	
SUMMAR	Y OF PAY QUANTITIES	ENGINEER:	KCD	06/17	
	AND NOTES				
STATE OF					
OKLAHOMA	JOB PIECE NO. 33253(04)		SHEET NO.	AT01	

DESCRIPTION	UNIT	QUANTITY	
N	LSUM	1.00	

DESCRIPTION		UNIT	QUANTITY
FLASHER CONTROLLER (TYPE II) (SP-1	6,7)	ΕA	2.00
ADJ. SIG. HD. S-22 (SF	-8)	EA	6.00

DESCRIPTION		UNIT	QUANTITY
OF EXISTING SIGNS	(SP-3)(TS-41)	ΕA	2.00
RESET EXISTING SIGNS		ΕA	3.00
OR WARNING SIGN ASSEMBLY	(SP-4,5,9)	EA	2.00
NUM SIGNS	(TS-33,34)	SF	26.00
IBE POST	(TS-33,34)	LF	32.00
PE(PLASTIC)(24" WIDE)	(TC-13,14)(TS-23)	LF	60.00

REVISIONS

 \triangle ADDED ENVIRONMENTAL NOTES 9/5/17