ITEM 809 - ADVANCE RADAR DETECTION, AS PER PLAN:

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE EXTENDED RANGE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- -THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR A UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- PRIOR TO PROGRAMMING, THE CONTRACTOR SHALL CONTACT THE ODOT DISTRICT 6 DISTRICT TRAFFIC ENGINEER AT 740-833-8198. A DISTRICT 6 TRAFFIC DEPARTMENT REPRESENTATIVE SHALL BE PRESENT DURING THE PROGRAMMING OF THE SYSTEM.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION UNIT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED. AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

ITEM 809 - STOP LINE RADAR DETECTION, AS PER PLAN:

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE

- POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- -A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR A UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- PRIOR TO PROGRAMMING, THE CONTRACTOR SHALL CONTACT THE ODOT DISTRICT 6 DISTRICT TRAFFIC ENGINEER AT 740-833-8198. A DISTRICT 6 TRAFFIC DEPARTMENT REPRESENTATIVE SHALL BE PRESENT DURING THE PROGRAMMING OF THE SYSTEM.

PAYMENT FOR ITEM 809 STOP LINE RADAR DETECTION SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

ITEM 809 ATC V6.24 CONTROLLER, AS PER PLAN:

THE CONTROLLER UNIT SHALL BE FURNISHED AND INSTALLED PER SS 809 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

THE CONTROLLER SHALL BE AN ECONOLITE COBALT AND COMPATIBLE WITH THE CABINET TYPE BEING INSTALLED.

			HEET NUMBER						CEE		
		2 - 11	2-11 12 - 15	ITEM	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET		LATE KED
			02/NHS/OT 01/NFP/OT		EXT.	707712			NO.		ALCU X
								TRAFFIC SURVEILLANCE		ŀ	ت ا
		1		625	14000	1		LIGHT POLE FOUNDATION, 24" X 6' DEEP			1
		100		625	22990	100		NO. 6 AWG 600 VOLT DISTRIBUTION CABLE			1
		100		625	25606	100	FT	CONDUIT, 4", 725.052			1
		100		625	25740	100	FT	CONDUIT, MULTICELL, 4", 725.20 SCHEDULE 80, JACKED OR DRILLED	6		1
		100		625	25750	100	FT	CONDUIT, 4", MULTICELL, 725.20, EPC-40	6		1
		100		625	25000	100	CT	CONDUIT, JACKED OR DRILLED, 725.052, 4"			1
	_	100		625 625	25908 29010	100	FT FT	TRENCH, 30" DEEP			1
\circ		100		625	30711	1	EACH	PULLBOX, 725.08, 32", AS PER PLAN	6		1
\cup		1		632	64021	1	EACH	PEDESTAL FOUNDATION. AS PER PLAN	6		1
		1		633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	6		1
		,		000	01101		LAOIT	ONDITION, NO FER FERIN			1
		1		633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	6		1
											1
								TRAFFIC CONTROL			1
			1	630	74601	1	EACH	OVERHEAD SIGN SUPPORT, INSTALLATION ONLY, AS PER PLAN	7		1
											1
								TRAFFIC SIGNALS			│ ≻
		1		632	05006	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE			<u>%</u>
		1		632	05086	1		VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE			A
	L	1		632	25000	1	EACH	COVERING OF VEHICULAR SIGNAL HEAD			Σ
		1		632	26500	1	EACH	DETECTOR LOOP	7		=
		1		632	27200	1	EACH	LOOP DETECTOR TIE IN	7		I
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<u>-</u>		500		632	30200	500	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES			၂ တ
Dd	_	500		632	30601	500	FT	TETHER WIRE, WITH ACCESSORIES, AS PER PLAN	7 8		1.
>		2000	6	632 632	40701 64000	2000 7	FT EACH	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG, AS PER PLAN STRAIN POLE FOUNDATION, AS PER PLAN	8		
5		- 1	1	632	64010	1	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	8		X
<u>a</u>	_		1	032	64010	- /	EAUT	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	0		111
:29		1		632	64020	1	EACH	PEDESTAL FOUNDATION			Z
:05		1000		632	65200	1000	FT	LOOP DETECTOR LEAD-IN CABLE			🛅
20		100		632	67190	100	FT	POWER CABLE, 1 CONDUCTOR, NO. 8 AWG			l (5
:02		100		632	69800	100	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG			
2/2		1		632	70000	1	EACH	POWER SERVICE			1
./9											1
2		1		632	70400	1	EACH	CONDUIT RISER, 2" DIAMETER			1
Olo		1	6	632	83507	7	EACH	STRAIN POLE, TYPE TC-81.10, DESIGN 10, INSTALLATION ONLY, AS PER PLAN	8		1
9-		1		632	89300	1		WOOD POLE			1
824		1		632	89400	1	EACH	DOWN GUY			1
60		1		632	89900	1	EACH	PEDESTAL, 8', TRANSFORMER BASE			1
C											1
Ď		1		632	90020	1		REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: CONTROLLER AND CABINET	8		1
000		1		632	90020	1		REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: STRAIN POLE			1
9-1		1		632	90020	1		REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: STRAIN POLE FOUNDATION			1
324.	<u> </u>	1		632	90020	1		REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: VEHICULAR SIGNAL HEAD			1
360		500		632	90030	500	FT	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM: OVERHEAD CABLE/MESSENGER WIRE			1
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ee d	<u> </u> -	1000		632 632	90200 90500	8 1000	EACH FT	SIGNALIZATION, MISC.: UNLASH AND RELASH MESSENGER WIRE	8		1
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) Å D		1		633	65511	1		CABINET, TYPE TS2, AS PER PLAN	8		1
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sigr		4		809	69001	4		ADVANCE RADAR DETECTION, AS PER PLAN	9		/
Dec		4		809	69101	4		STOP LINE RADAR DETECTION, AS PER PLAN	9		ш
<u> </u>		1		809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN:	9		
ပ်								MAINTENANCE OF TRAFFIC			Щ
ابة. ا			60	614	11110	60	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	12		╽┈
-90			5	614	13600	5	EACH	MAINTENANCE OF TRAFFIC, ONE LANE CLOSURE ON A TWO LANE HIGHWAY	12		1 4
Ä			5	614	13700	5	EACH	MAINTENANCE OF TRAFFIC, ONE LANE CLOSURE ON A FOUR LANE UNDIVIDED HIGHWAY	12		ف ا
			5	614	13800	5	EACH	MAINTENANCE OF TRAFFIC, ONE LANE CLOSURE ON A FOUR LANE OR GREATER DIVIDED HIGHWAY	12		ŏ
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