

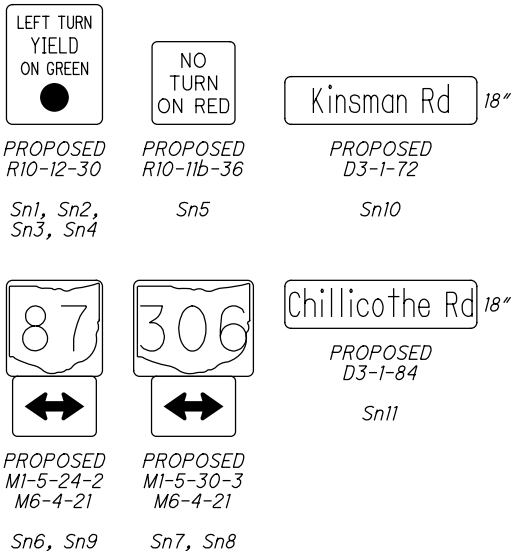
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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
2	3	7	13							01/SAF/OT	02/NFP/OT						
LS										LS		201	11000	LS		ROADWAY	
																TRAFFIC CONTROL	
		14								14		630	03100	14	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			5							5		630	79101	5	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	3
			4							4		630	79500	4	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
			2							2		630	79501	2	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	3
		6	66							72		630	80100	72	SF	SIGN, FLAT SHEET	
			2							2		630	80500	2	EACH	SIGN, DOUBLE FACED, STREET NAME	
		12								12		630	84900	12	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
		10								10		630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		8								8		630	87500	8	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
		62								62		644	00500	62	FT	STOP LINE, 24"	
		138								138		644	30000	138	FT	REMOVAL OF PAVEMENT MARKING	
		2								2		644	30020	2	EACH	REMOVAL OF PAVEMENT MARKING	
																TRAFFIC SIGNALS	
			122							122		625	25500	122	FT	CONDUIT, 3", 725.04	
			281							281		625	25906	281	FT	CONDUIT, JACKED OR DRILLED, 725.051, 4"	
			61							61		625	29000	61	FT	TRENCH	
			3							3		625	30700	3	EACH	PULL BOX, 725.08, 18"	
			1							1		625	30706	1	EACH	PULL BOX, 725.08, 24"	
			10							10		625	31510	10	EACH	PULL BOX REMOVED	
			5							5		625	32000	5	EACH	GROUND ROD	
			61							61		625	36010	61	FT	UNDERGROUND WARNING/MARKING TAPE	
			4							4		632	05006	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE	
			4							4		632	05086	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE	
			8							8		632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	4
			8							8		632	25000	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
			8							8		632	25010	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
			610							610		632	40700	610	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
			650							650		632	40900	650	FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG	
			4							4		632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION	
			240							240		632	68200	240	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
			300							300		632	69800	300	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
			1							1		632	70000	1	EACH	POWER SERVICE	
			3							3		632	72131	3	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	4
			1							1		632	72141	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	4
			1							1		632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	3
			1							1		633	65523	1	EACH	CABINET, TYPE 332L, AS PER PLAN	4
			1							1		633	67100	1	EACH	CABINET FOUNDATION	
			1							1		633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	4
			1							1		633	68511	1	EACH	COMMUNICATIONS, AS PER PLAN	4
			1							1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	4
			4							4		809	69001	4	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	5
			4							4		809	69101	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	5
			1							1		809	69123	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN	5
			1								1	809	69200	1	EACH	EMERGENCY VEHICLE PREEMPTION	4
			4							4		809	69210	4	EACH	PREEMPT RECEIVING UNIT	4
			730							730		809	69220	730	FT	PREEMPT DETECTOR CABLE	5
			1							1		809	69230	1	EACH	PREEMPT PHASE SELECTOR	5
			4							4		809	69240	4	EACH	PREEMPT CONFIRMATION LIGHT, LED	5
																MAINTENANCE OF TRAFFIC	
	LS									LS		614	11000	LS		MAINTAINING TRAFFIC	3
	50									50		614	11110	50	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	3
																INCIDENTALS	
8										8		619	16011	8	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	2
										LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										LS		624	10000	LS		MOBILIZATION	

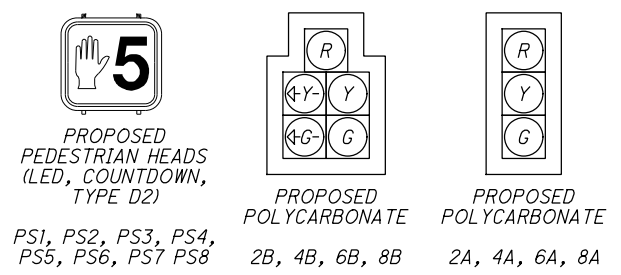
GENERAL SUMMARY

GEA - 87 - 2.73

SIGNS



SIGNAL HEADS



NOTE 1: POWER SHALL BE OBTAINED FROM THE EXISTING EXISTING TRANSFORMER AT APPROXIMATELY STA. 141+08 30' RT

NOTE 2: PROPOSED IMPROVEMENTS TO PARKING AND ACCESS TO BE COMPLETED BY OTHERS.

PROP. SIGNAL SUPPORT, SP1, AS PER PLAN
PROP. POLE MOUNTED SIGN, Sn7
PROP. PEDESTRIAN SIGNAL HEADS, PS1 AND PS2, AS PER PLAN
PROP. POWER SERVICE, AS PER PLAN, NOTE 1
PROP. ADVANCED RADAR DETECTION, R1, AS PER PLAN
PROP. STOP LINE RADAR DETECTION, R2, AS PER PLAN

PROP. SIGNAL SUPPORT, SP2, AS PER PLAN
PROP. POLE MOUNTED SIGN, Sn6
PROP. POLE MOUNTED STREET NAME SIGNS, Sn10 AND Sn11, AS PER PLAN
PROP. PEDESTRIAN SIGNAL HEADS, PS3 AND PS4, AS PER PLAN
PROP. ADVANCED RADAR DETECTION, R3, AS PER PLAN
PROP. STOP LINE RADAR DETECTION, R4, AS PER PLAN

PROP. 2-3" GALV. CONDUIT (10 FT)

PROP. CONC. PULLBOX, 18", PB1

PROP. 4" CONDUIT, JACKED OR DRILLED (83 FT)

PROP. 2-3" GALV. CONDUIT (28 FT)

PROP. CONC. PULLBOX, 18", PB2

PROP. 4" CONDUIT, JACKED OR DRILLED (78 FT)

PROP. GROUND-MOUNTED CONTROLLER AND CABINET, AS PER PLAN
PROP. 24" PULLBOX, 24", PB3
PROP. WORK PAD, AS PER PLAN
PROP. UPS, AS PER PLAN
PROP. COMMUNICATIONS, AS PER PLAN

PROP. 2-3" GALV. CONDUIT (13 FT)

PROP. SIGNAL SUPPORT, SP3, AS PER PLAN
PROP. POLE MOUNTED SIGN, Sn8
PROP. PEDESTRIAN SIGNAL HEADS, PS5 AND PS6, AS PER PLAN
PROP. ADVANCED RADAR DETECTION, R5, AS PER PLAN
PROP. STOP LINE RADAR DETECTION, R6, AS PER PLAN

PROP. 4" CONDUIT, JACKED OR DRILLED (120 FT)

PROP. SIGNAL SUPPORT, SP4, AS PER PLAN
PROP. POLE MOUNTED SIGN, Sn9
PROP. PEDESTRIAN SIGNAL HEADS, PS7 AND PS8, AS PER PLAN
PROP. ADVANCED RADAR DETECTION, R7, AS PER PLAN
PROP. STOP LINE RADAR DETECTION, R8, AS PER PLAN

PULLBOX TABLE

PULL BOX #	STATION	SIDE	OFFSET	SIZE (IN.)
PB1	143+64	LT	45	18
PB2	144+68	LT	35	18
PB3	144+84	RT	38	24
PB4	143+68	RT	35	18

LEGEND

	PROP	EXIST
TRAFFIC SIGNAL, 2 UNIT, 3 UNIT, OR PHB HEAD, 12"		
TRAFFIC SIGNAL, 4 OR 5 UNIT HEAD, 12"		
SIGNAL SUPPORT POLE		
PEDESTRIAN HEAD		
PREEMPTION DETECTOR		
CONTROLLER CABINET AND WORK PAD (332L)		
TRAFFIC PULL BOX		
DILEMMA ZONE RADAR DETECTION UNIT		
STOP-LINE RADAR DETECTION UNIT		
DETECTION ZONE		

TRAFFIC SIGNAL PLAN STATE ROUTE 87 & STATE ROUTE 306

GEA-87-2.73

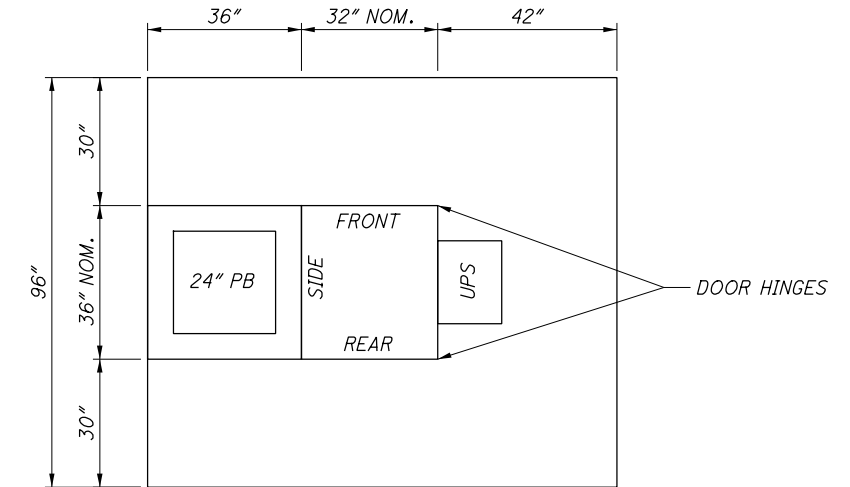
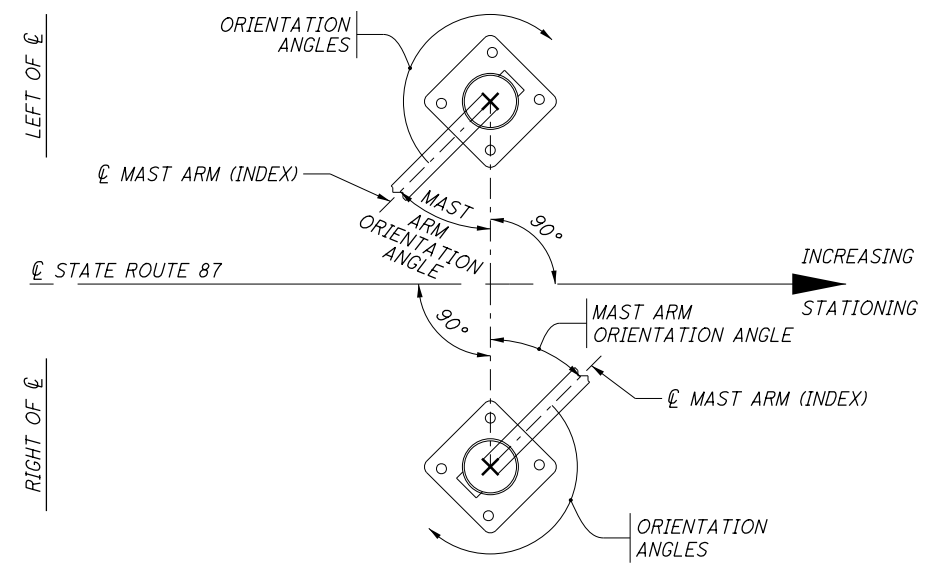
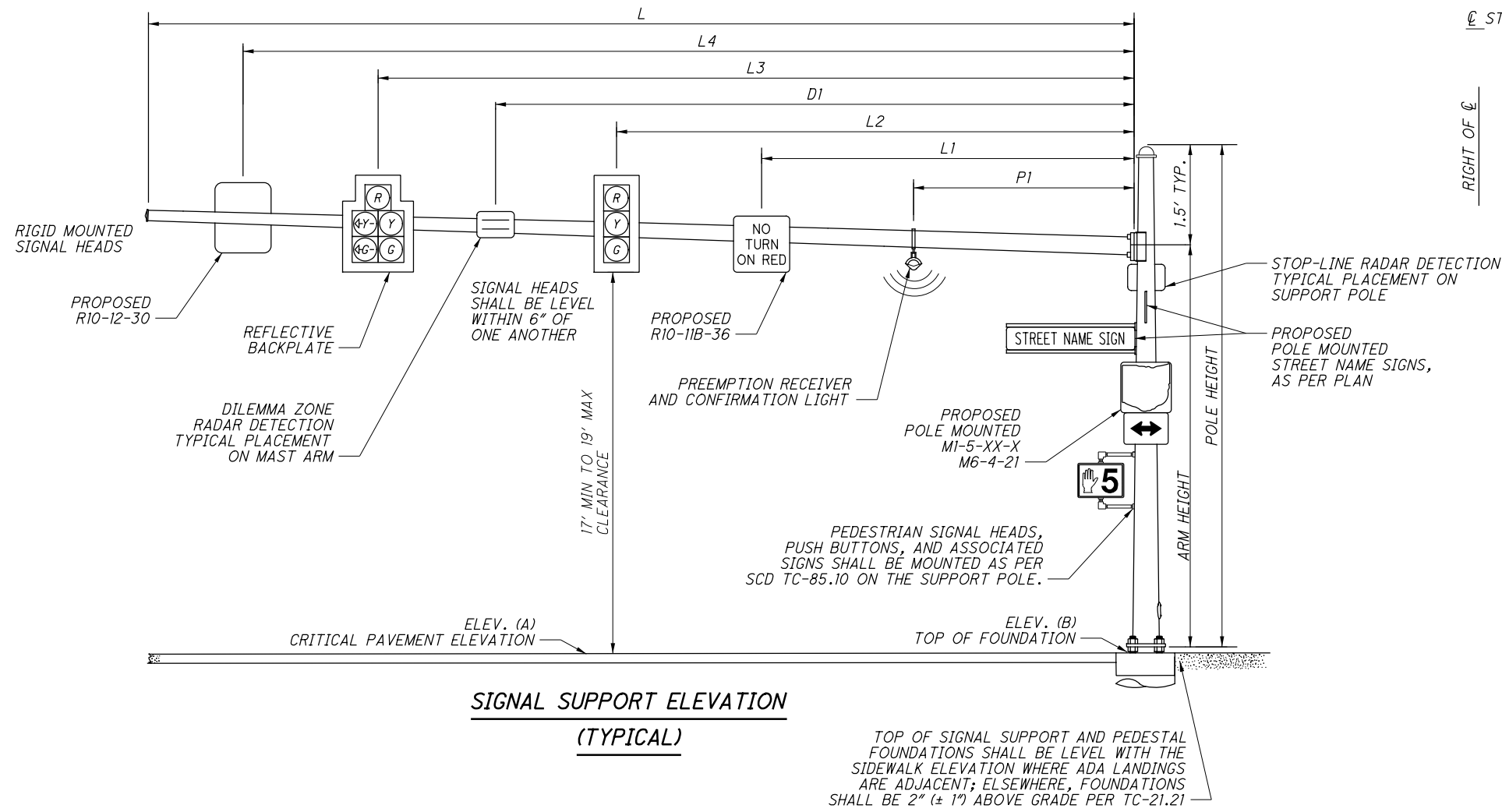
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MAST ARM TABLE (TEM FIGURE 498-37 & 38)

SUPPORT NO.	STATION	OFFSET	ELEVATION		SIGNAL SUPPORT DETAILS											ORIENTATION ANGLES FROM MAST ARM								
			A (Pavt. Elev.)	B (Top of Found.)	DESIGN TYPE	DESIGN NO.	POLE HEIGHT	ARM HEIGHT	L	L1	L2	L3	L4	P1	D1	MAST ARM ANGLE	STOP LINE RADAR DETECTOR ANGLE	PEDESTRIAN SIGNAL	POWER SERVICE	FACE OF POLE MOUNTED SIGN	POLE MOUNTED STREET NAME SIGN	HANDHOLE	CONDUIT ELLS	CABLE ENTRANCE 12" FROM TOP
SP-1	143+69	50 LT	1092.85	1093.35	TC-81.22	13	21.5	20	53	-	31	43	49	25	36	0	60	0/270	135	270	-	180	40 / 40	135
SP-2	144+49	51 LT	1092.58	1093.14	TC-81.22	12	21.5	20	41	-	20	32	38	15	25	85	75	190/280	-	270	0/270	180	245 / 245	-
SP-3	144+73	42 RT	1092.95	1093.94	TC-81.22	12	21.5	20	45	-	25	36	42	20	30	0	45	180/270	-	270	-	180	65 / 65	-
SP-4	143+73	40 RT	1093.86	1094.15	TC-81.22	12	21.5	20	48	22	26	39	44	18	32	85	80	100/190	-	270	-	180	220 / 220	-

SIGNAL SUBSUMMARY			
ITEM	QUAN.	UNIT	DESCRIPTION
625	122	FT	CONDUIT, 3", 725.04
625	281	FT	CONDUIT, JACKED OR DRILLED, 725.051, 4"
625	61	FT	TRENCH
625	3	EACH	PULL BOX, 725.08, 18"
625	1	EACH	PULL BOX, 725.08, 24"
625	10	EACH	PULL BOX REMOVED
625	5	EACH	GROUND ROD
625	61	FT	UNDERGROUND WARNING/MARKING TAPE
630	5	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	4	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED
630	2	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN
630	66	SF	SIGN, FLAT SHEET
630	2	EACH	SIGN, DOUBLE FACED, STREET NAME
632	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE
632	4	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE
632	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	8	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
632	610	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	650	FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	4	EACH	SIGNAL SUPPORT FOUNDATION
632	240	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
632	300	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG
632	1	EACH	POWER SERVICE
632	3	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CABINET, TYPE 332L, AS PER PLAN
633	1	EACH	CABINET FOUNDATION
633	1	EACH	CONTROLLER WORK PAD, AS PER PLAN
633	1	EACH	COMMUNICATIONS, AS PER PLAN
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
809	4	EACH	ADVANCE RADAR DETECTION, AS PER PLAN
809	4	EACH	STOP LINE RADAR DETECTION, AS PER PLAN
809	1	EACH	ATC V6.24 CONTROLLER, AS PER PLAN
809	1	EACH	EMERGENCY VEHICLE PREEMPTION
809	4	EACH	PREEMPT RECEIVING UNIT
809	730	FT	PREEMPT DETECTOR CABLE
809	1	EACH	PREEMPT PHASE SELECTOR
809	4	EACH	PREEMPT CONFIRMATION LIGHT, LED