

MAINTENANCE OF TRAFFIC SIGNAL (CONT.)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 7 TO 9 AM AND 4 TO 6 PM, ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;
2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 625 BRACKET ARM, AS PER PLAN - (ALTERNATE 2) (VALMONT)

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN THE OHIO DEPARTMENT OF TRANSPORTATION ITEM 625 HIGHWAY LIGHTING, EXCEPT AS HERIN MODIFIED.

THE BRACKET ARM SHALL BE THE VALMONT BURNSVILLE BRACKET ARM, 2', AND BE GALVANIZED WITH A BLACK FINISH, PER ODOT SUPPLEMENTAL SPECIFICATION 916.

THE BRACKET ARM SHALL BE WRAPPED TO PROTECT THE FINISH DURING SHIPPING, UNLOADING AND INSTALLATION. THE CONTRACTOR IS TOTALLY RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE FINISH OF THE ARMS. IF THE FINISH IS DAMAGED DURING HANDLING, THE CONTRACTOR SHALL REPAIR THE FINISH PER THE MANUFACTURER'S RECOMMENDATIONS.

PAYMENT FOR ITEM 625 BRACKET ARM, AS PER PLAN - (ALTERNATE 2) (VALMONT) FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 630 SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS ITEM 630 AND 730, THE CONTRACTOR SHALL RIGIDLY ATTACH A SIGN TO THE MAST ARM. THE SIGN HANGER ASSEMBLY SHALL HAVE A BLACK POWDER COAT FINISH AND BE DESIGNED WITHOUT SET SCREWS, PIPE THREADS, RETAINER RINGS, AND SCREW LOCK BUCKLES. THE SADDLE USED TO FASTEN THE SUPPORT MEMBER TO THE MAST ARM SHALL ALSO HAVE A MULTI-TOOTH MOUNTING SURFACE TO INHIBIT MOVEMENT OR ROTATION. THIS ITEM SHALL INCLUDE ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES. ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES SHALL BE STAINLESS STEEL AND HAVE A BLACK FINISH.

PAYMENT FOR ITEM 630 SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS ITEM 630 AND 730, THE CONTRACTOR SHALL RIGIDLY ATTACH A SIGN TO THE TRAFFIC POLE. THE POLE MOUNTED SUPPORT ASSEMBLY SHALL HAVE A BLACK FINISH. THIS ITEM SHALL INCLUDE ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES. ALL NECESSARY HARDWARE, FASTENERS, AND ACCESSORIES SHALL BE STAINLESS STEEL.

PAYMENT FOR ITEM 630 SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 630 SIGN, STREET NAME, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 630 TRAFFIC SIGNS AND SIGN SUPPORTS, EXCEPT AS HEREIN MODIFIED.

THE WORK SHALL INCLUDE THE PAINTING OF THE BACK OF THE MAST ARM MOUNTED STREET NAME SIGNS FLAT BLACK. THIS ITEM SHALL ALSO INCLUDE ALL NECESSARY HARDWARE FOR INSTALLATION TO THE MAST ARMS. THE EXPOSED HARDWARE SHALL BE STAINLESS STEEL, THE TYPE OF PAINT SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE AND SHALL BE CAPABLE TO ADHERE TO ALUMINUM AND STAINLESS STEEL.

THE CONTRACTOR TO PROVIDE A MOCK UP OF THE STREET NAME SIGN PRIOR TO MANUFACTURING TO ALLOW THE ENGINEER TO APPROVE THE ACTUAL SIZE, FONT, AND COLORS.

PAYMENT FOR ITEM 630 SIGN, STREET NAME, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 630 SIGNING, MISC.: BLACK BACKGROUND, FLAT SHEET

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN THE OHIO DEPARTMENT OF TRANSPORTATION ITEM 630 TRAFFIC SIGNS AND SIGN SUPPORTS, EXCEPT AS HEREIN MODIFIED.

THE WORK SHALL INCLUDE A BLACK BACKGROUND, FLAT SHEET TO BE MOUNTED TO THE BACK OF ALL R3-5 AND R3-7 SIGNS ONLY. THE BLACK BACKGROUND SHALL BE 2" LARGER ON ALL SIDES (INCLUDING RADIUS CORNERS) THAN THE SIGN PLACED IN THE FRONT, UNLESS OTHERWISE DIMENSIONED ON THE PLANS. THE CONTRACTOR IS TO SUBMIT THE DRAWINGS SHOWING HOW THE BLACK BACKGROUND WILL BE USED FOR EACH SIGN PRIOR TO MANUFACTURING.

PAYMENT FOR ITEM 630 BLACK BACKGROUND, FLAT SHEET, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE FOOT PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK
ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. SIGNAL HEADS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC WITH VISORS AS SPECIFIED AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. ALL UPPER SIGNAL SUPPORT HARDWARE AND PIPING UP TO AND INCLUDING THE WIRE INLET FITTING SHALL BE FERROUS METAL.
4. PIPE, SPACERS AND FITTINGS SHOULD BE CONSTRUCTED OF GALVANIZED STEEL, OR ALUMINUM, AND HAVE A BLACK FINISH, INCLUDING THE MAST ARM ATTACHMENT STEEL CABLES.
5. THE ENTRANCE FITTING SHALL BE OF THE TRI-STUD DESIGN WITH SERRATED RINGS IN ORDER TO ACHIEVE POSITIVE LOCKING.

ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK
ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12 INCH LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK (CONT.)

6. ALL SIGNAL HEADS BE RIGIDLY MOUNTED TO THE MAST ARM WITH THE YELLOW LENS LOCATED IN FRONT OF THE MAST ARM.

7. ALUMINUM BACKPLATES SHALL BE IN ACCORDANCE WITH THE C&MS AND INCLUDE A FLUORESCENT YELLOW REFLECTIVE BORDER.

8. THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

9. SIGNAL HEADS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.117 INCHES.

10. SIGNAL HEADS SHALL INCLUDE CUTAWAY TYPE VISORS UNLESS OTHERWISE SPECIFIED IN THE PLANS.

11. APPLY A BEAD OF SILICONE TO THE SIGNAL HEAD, WASHER, AND ENTRANCE ADAPTER SERRATIONS TO PREVENT WATER INTRUSION. ALSO, FILL THE SPACE BETWEEN CONCENTRIC SERRATION RINGS ON THE TOP OF THE SIGNAL HEAD TO COMPLETELY EXCLUDE WATER FROM THE SPACE BETWEEN THE CONCENTRIC RINGS.

12. ALL SIGNAL HEADS SHALL BE FIELD LOCATED AND APPROVED BY THE ENGINEER BEFORE FINAL WIRING.

PAYMENT FOR ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12 INCH, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK AND ITEM 632 VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12 INCH, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK SHALL BE MADE FOR COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, AND NEW ATTACHMENT HARDWARE.

ITEM 632 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF C&MS 632 AND 732 THE FOLLOWING SHALL APPLY:

1. SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
2. PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
3. PIPE, SPACERS AND FITTINGS SHALL BE CONSTRUCTED OF GALVANIZED STEEL AND SHALL BE PAINTED BLACK PER ODOT SS 916.
4. THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED.
6. THE LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS SHALL MEET THE REQUIREMENTS OF C&MS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE VILLAGE, IN WRITING, WITH THE LED MANUFACTURER NAME, SERIAL NUMBER, PART NUMBER, DESCRIPTION OF LAMP, AND DATE OF MANUFACTURE FOR ALL LED UNITS THAT ARE TO BE USED IN THE SIGNAL HEAD PRIOR TO INSTALLATION, FOR ACCEPTANCE AND WARRANTY PURPOSES.

PAYMENT FOR ITEM 632 PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN SHALL BE MADE FOR THE NUMBER OF COMPLETE SIGNAL HEAD FURNISHED AND INSTALLED, INCLUDING ALL LABOR, EQUIPMENT, MATERIALS AND NEW ATTACHMENT HARDWARE.

ITEM 632 PEDESTRIAN PUSHBUTTON, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS 632 AND 732, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. THE BULL DOG PUSHBUTTON ASSEMBLY SHALL A DIE CAST ALUMINUM BODY PAINTED BLACK PER ODOT SS 916 AND A 316 STAINLESS STEEL BUTTON.
2. THE PUSHBUTTON SHALL HAVE PIEZO DRIVEN SOLID STATE SWITCH.
3. THE PUSHBUTTON ASSEMBLY SHALL HAVE AN INTEGRAL INDICATOR LIGHT THAT ILLUMINATES WHEN THE BUTTON IS PUSHED.
4. THE PUSHBUTTON SHALL SOUND A TONE WHEN THE BUTTON IS PUSHED AND SOUND A DIFFERENT TONE WHEN THEN BUTTON IS RELEASED.

PAYMENT FOR ITEM 632 PEDESTRIAN PUSHBUTTON, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 632 SIGNAL SUPPORT FOUNDATION, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS 632 TRAFFIC SIGNAL EQUIPMENT, THE SIGNAL SUPPORT FOUNDATIONS SHALL BE INSTALLED PER 632.14.

PRIOR TO ORDERING THE SIGNAL SUPPORTS, THE CONTRACTOR SHALL CONTACT OUPS TO HAVE ALL THE UTILITIES LOCATED IN THE FIELD. THE CONTRACTOR SHALL HYDRO-EXCAVATE POLE FOUNDATIONS TO ENSURE ABSENCE OF CONFLICTS WITH POLE LOCATIONS. IF THE CONTRACTOR FAILS TO DO THIS PRIOR TO ORDERING, ANY CHANGES TO THE POLES OR MAST ARMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE AND WILL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY FOR EACH SUPPORT FURNISHED, IN PLACE, COMPLETE AND ACCEPTED.

ITEM 632 POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT SPECIFICATIONS 632 AND 732 AND SCD TC-83.10, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN 5 FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND.
2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES. THE CONTRACTOR WILL OBTAIN A 120/240 VOLT, 60 AMP SERVICE - 120 VOLT TO THE CONTROLLER CABINET.
3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL HAVE A LEVER OPERATED BYPASS.
4. THE METER AND DISCONNECT SWITCH SHALL BE LOCATED ON THE SIDE OF THE CONTROLLER CABINET.

DISCONNECT SWITCH ENCLOSURES FURNISHED IN ACCORDANCE WITH CMS ITEM 632, POWER SERVICE, AS PER PLAN, SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR SHALL CONTACT AES OHIO FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES AND CABINET. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120/240 VOLTS (120 VOLTS FOR THE SIGNAL).

PAYMENT FOR ITEM 632 POWER SERVICE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

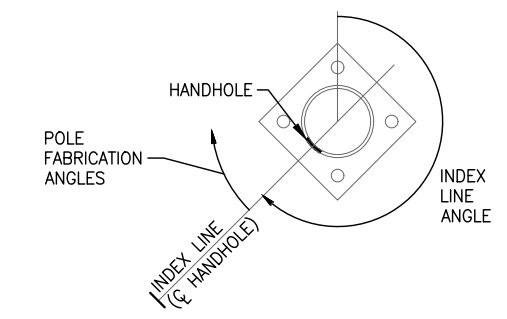
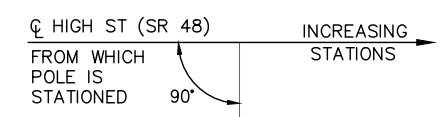
SHEET NO.	LOCATION	SIDE	625	625	625	625	625	625	625	625	625	630	630	630	630	632	632		
			BRACKET ARM, AS PER PLAN (ALTERNATE 2) (VALMONT) EACH	CONDUIT, 2", 725.051 FT	CONDUIT, 3", 725.051 FT	CONDUIT, 4", 725.051 FT	TRENCH FT	PULL BOX, 725.06, SIZE 7 EACH	PULL BOX, 725.06, SIZE 18 EACH	GROUND ROD EACH	UNDERGROUND WARNING/MARKING TAPE FT	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN EACH	SIGN, STREET NAME, AS PER PLAN EACH	SIGNING, MISC.: BLACK BACKGROUND, FLAT SHEET SF	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK EACH		
"WRIGHT STREET" - (100% LOCAL FUNDS)																			
62, 63	738+87.91 (SP-1)	LT						1				1		1		2			
62, 63	738+25.45 (SP-2)	LT	1					1				1		1		2			
62, 63	738+90.61 (SP-3)	RT	1					1				1		1		2			
62	738+75.94 (PBx1)	LT								1									
62	738+39.78 (PBx2)	LT								1									
62	738+76.11 (PBx3)	RT								1									
62	738+35.25 (PBx4)	RT										1							
62	738+31.44 (PS-1)	RT								1									
62, 64	SP-1 TO PBx1	LT			17		17												
62, 64	PBx1 TO PBx2	LT			36		36												
62, 64	SP-2 TO PBx2	LT			18		18												
62, 64	PBx2 TO PBx4	LT, RT				70	70												
62, 64	PS-1 TO PBx4	RT		6			6												
62, 64	SP-3 TO PBx3	RT			19		19												
62, 64	PBx3 TO PBx4	RT			41		41												
62, 64	PBx4 TO CONTROLLER	RT			46		23		1										
62, 64	CONTROLLER TO POWER SERVICE	RT		15			15												
"BRIDGE STREET & TROY PIKE"																			
66, 67	726+25.94 (SP-1)	LT						1				1		1		2			
66, 67	725+74.32 (SP-2)	LT	1					1				1		1		2			
66, 67	726+22.08 (SP-3)	RT	1					1				2		2		3		1	
66, 67	724+14.44 (SP-4)	LT	1					1				4	1	2	17.5	4		1	
66, 67	724+65.17 (SP-5)	RT	1					1				1	1	1		3			
66	726+14.86 (PBx1)	LT								1									
66	725+67.30 (PBx2)	LT								1									
66	726+24.29 (PBx3)	RT								1									
66	725+64.71 (PBx4)	RT										1							
66	724+45.54 (PBx5)	LT								1									
66	724+92.51 (PBx6)	RT										1							
66	724+74.09 (PBx7)	RT										1							
66	723+68.12 (PBx8)	RT								1									
66	725+68.62 (PS-1)	RT								1									
66	724+90.91 (PS-2)	RT								1									
66	723+59.14 (PS-3)	RT								1				1					
66, 68	SP-5 TO PBx7	RT			13		13												
66, 68	PS-3 TO PBx8	RT		9			9												
66, 68	PBx8 TO PBx7	RT		106			106												
66, 68	SP-4 TO PBx5	LT			31		31												
66, 68	PBx5 TO PBx7	LT, RT				71	71												
66, 68	PBx7 TO CONTROLLER	RT				12	12												
66, 68	SP-1 TO PBx1	LT			14		14												
66, 68	PBx1 TO PBx2	LT			51		51												
66, 68	SP-2 TO PBx2	LT			13		13												
66, 68	PBx2 TO PBx4	LT, RT				44	44												
66, 68	SP-3 TO PBx3	RT			11		11												
66, 68	PBx3 TO PBx4	RT			63		63												
66, 68	PS-1 TO PBx4	RT		4			4												
66, 68	PBx4 TO PBx6	RT				76	76												
66, 68	PS-2 TO PBx6	RT		7			7												
66, 68	PBx6 TO CONTROLLER	RT			9		9		1										
66, 68	CONTROLLER TO POWER SERVICE	RT		29			29												
LOCAL FUNDED TOTAL			6	21	177	70	245	3	1	5	245	3	0	3	0	6	0		
FEDERAL FUNDED TOTAL			0	155	205	212	563	5	3	9	563	9	3	7	18	14	2		
TOTALS CARRIED TO GENERAL SUMMARY			6	176	382	282	808	8	4	14	808	12	3	10	18	20	2		

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SUBSUMMARY - TRAFFIC SIGNAL

MIA HIGH STREET IMPROVEMENTS

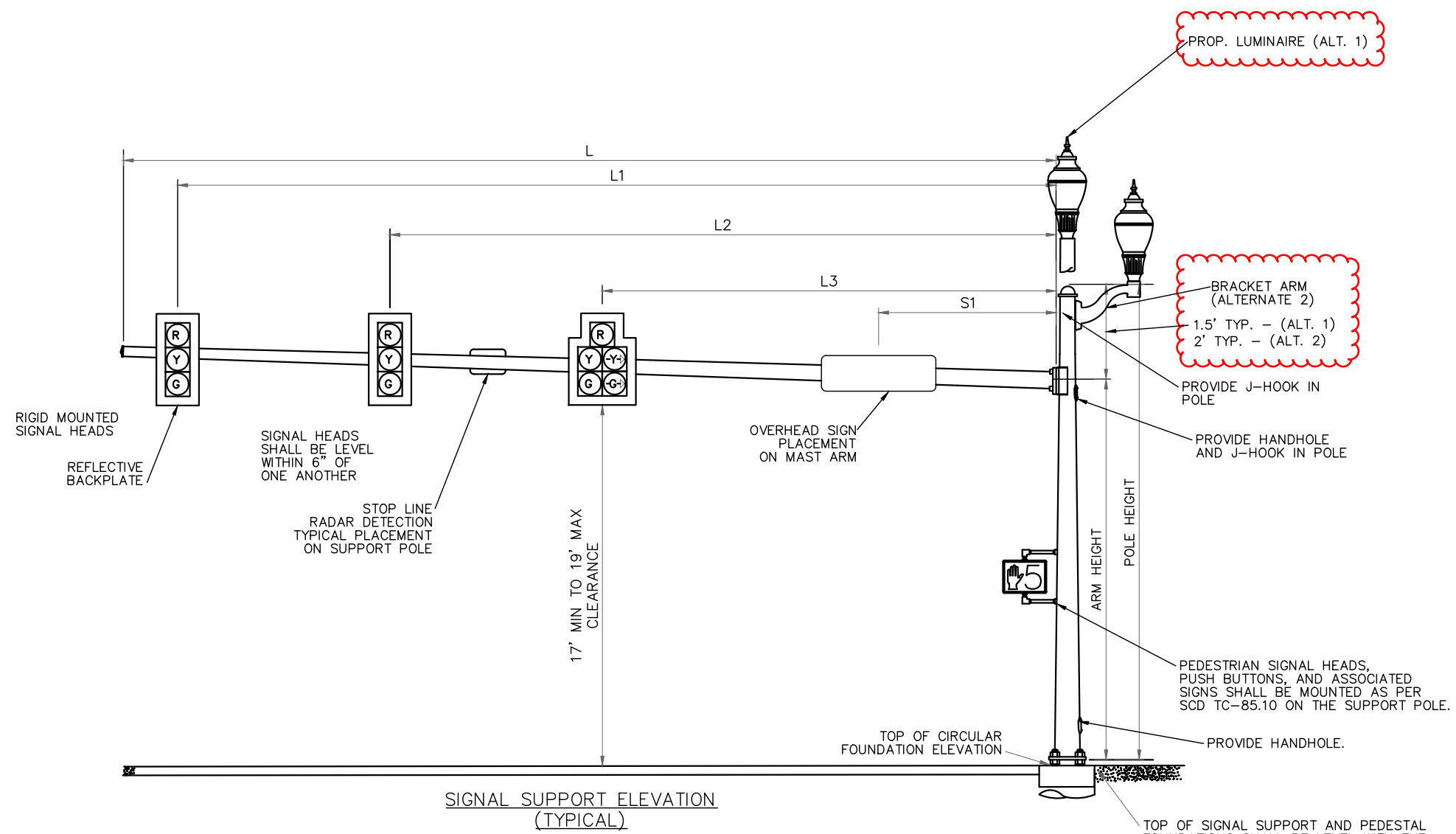
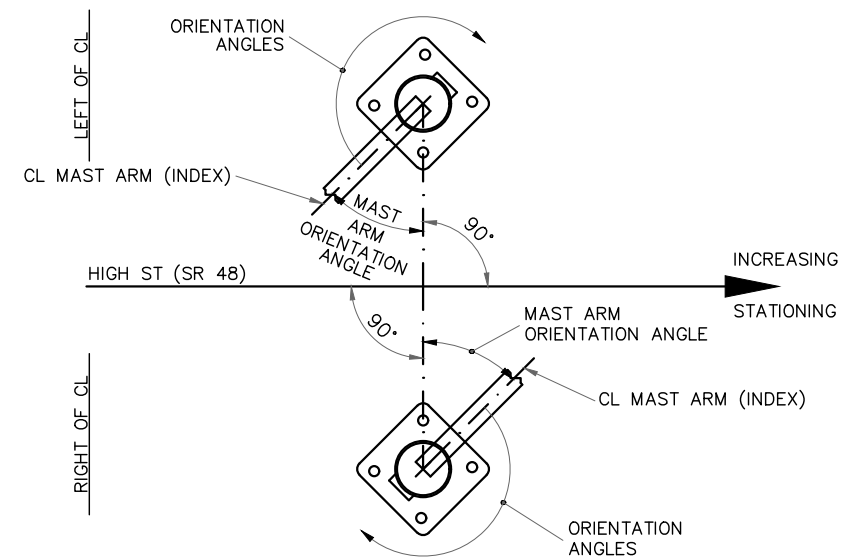
PEDESTRIAN POLE ORIENTATION DETAIL



PEDESTAL POLE DATA

POLE NUMBER	STATION	OFFSET (FEET) AND SIDE	POLE HEIGHT (FT.)	INDEX LINE ANGLE (DEG.)	ANGLES (DEG) FROM INDEX LINE (ALL ANGLES MEASURES CLOCKWISE C)		
					SIGNAL CONDUIT ELL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON
*PS-1	738+31.44	32.51' RT	8'	230	270	130/220	130/220

*PEDESTAL SHALL INCLUDE A DUAL MOUNTING BRACKET FOR THE MOUNTING OF THE PEDESTRIAN PUSHBUTTONS AND PEDESTRIAN SIGNS



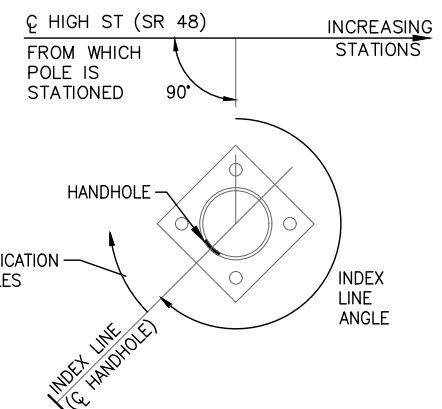
- NOTE:
- ALL BASE BID MAST ARMS SHALL HAVE A 6"-12" RISE AFTER ERECTION.
 - ALL DECORATIVE MAST ARMS (ALTERNATE 2) SHALL HAVE A 60" UPSWEEP.

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	TOP OF FOUNDATION ELEVATION	SIGNAL SUPPORT DETAILS - (ALT. 1)			SIGNAL SUPPORT DETAILS (ALT. 2)			SIGNAL SUPPORT DETAILS					ORIENTATION ANGLES FROM MAST ARM										
				DESIGN TYPE	DESIGN NO.	POLE HEIGHT (ALT. 1)	MAST ARM ATTACHMENT HEIGHT (ALT. 1)	LUMINAIRE MOUNTING HEIGHT (ALT. 1)	POLE HEIGHT (ALT. 2)	MAST ARM ATTACHMENT HEIGHT (ALT. 2)	BRACKET ARM ATTACHMENT HEIGHT (ALT. 2)	LUMINAIRE MOUNTING HEIGHT (ALT. 2)	L	L1	L2	L3	S1	MAST ARM A ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN BUTTON	SIGNAL CONDUIT ELL	LUMINAIRE CONDUIT ELL	BRACKET ARM (ALTERNATE 2)	BASE HANDHOLE	MAST ARM HANDHOLE
SP-1	738+87.91	23.0 LT	926.01	TC-81.22	2	22.5	21	-	*18	*16	-	-	32	29.0	21.0	-	11	90	0/90	0/90	25	-	-	180	180
SP-2	738+25.45	23.0 LT	927.26	TC-81.22	2	21.5	20	21.5	*17	*15	*16	*17	24	20.0	10.0	-	5.0	0	180/270	180/270	255	85	180	180	180
SP-3	738+90.61	23.0 RT	926.81	TC-81.22	2	21.5	20	21.5	*17	*15	*16	*17	24	20.5	10.5	-	5.0	0	180/270	180/270	250	90	180	180	180

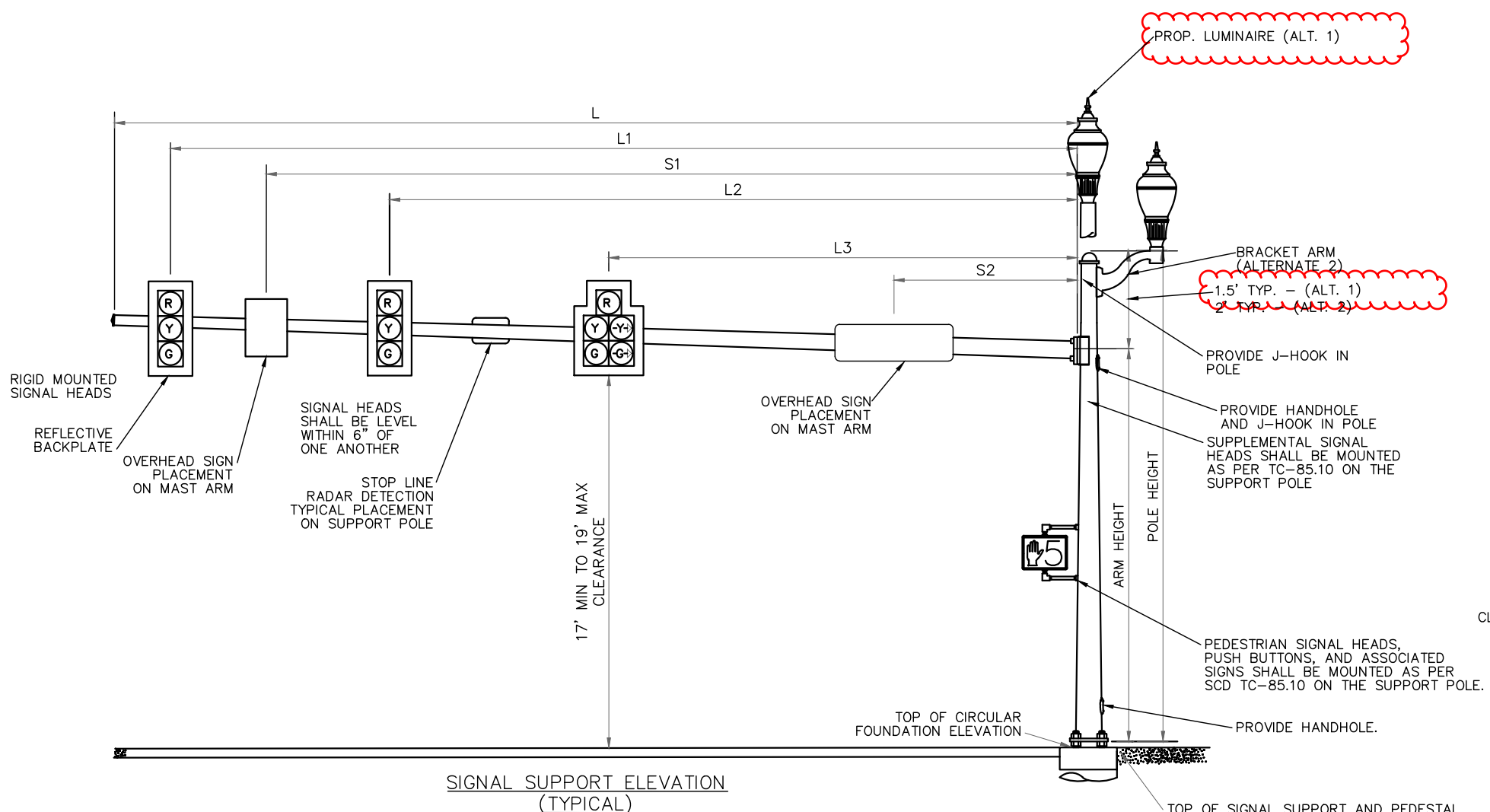
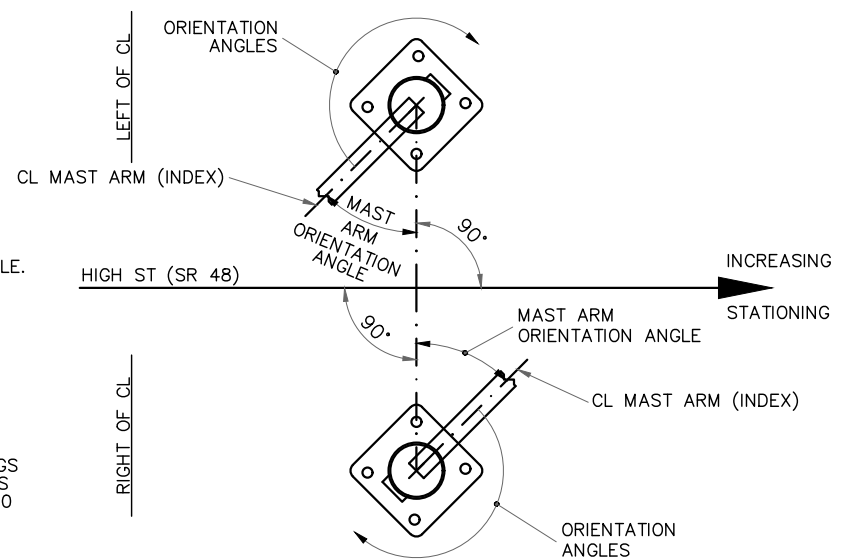
*ALTERNATE 2 DETAILS REPLACES ALTERNATE 1 DETAILS AS SHOWN IN TABLE

PEDESTRIAN POLE ORIENTATION DETAIL



POLE NUMBER	STATION	OFFSET (FEET)	POLE HEIGHT (FT.)	INDEX LINE ANGLE (DEG.)	ANGLES (DEG) FROM INDEX LINE (ALL ANGLES MEASURES CLOCKWISE C)		
					SIGNAL CONDUIT ELL	PEDESTRIAN SIGNAL	PEDESTRIAN PUSHBUTTON
*PS-1	725+68.62	23.49' RT	8'	270	30	180/270	180/270
PS-2	724+90.91	28.51' RT	8'	180	345	180	180
PS-3	723+59.14	28.50' RT	8'	180	280	180	180

*PEDESTAL SHALL INCLUDE A DUAL MOUNTING BRACKET FOR THE MOUNTING OF THE PEDESTRIAN PUSHBUTTONS AND PEDESTRIAN SIGNALS



SIGNAL SUPPORT ELEVATION (TYPICAL)

- NOTE:
- ALL BASE BID MAST ARMS SHALL HAVE A 6"-12" RISE AFTER ERECTION.
 - ALL DECORATIVE MAST ARMS (ALTERNATE 2) SHALL HAVE A 60" UPSWEEP.

MAST ARM TABLE

SUPPORT NO.	STATION	OFFSET	TOP OF FOUNDATION ELEVATION	SIGNAL SUPPORT DETAILS- (ALT. 1)			SIGNAL SUPPORT DETAILS (ALT. 2)			SIGNAL SUPPORT DETAILS									ORIENTATION ANGLES FROM MAST ARM										
				DESIGN TYPE	POLE DESIGN NO.	MAST ARM DESIGN NO.	POLE HEIGHT (ALT. 1)	MAST ARM ATTACHMENT HEIGHT (ALT. 1)	LUMINAIRE MOUNTING HEIGHT (ALT. 1)	POLE HEIGHT (ALT. 2)	MAST ARM ATTACHMENT HEIGHT (ALT. 2)	BRACKET ARM ATTACHMENT HEIGHT (ALT. 2)	LUMINAIRE MOUNTING HEIGHT (ALT. 2)	L	L1	L2	L3	S1	S2	S3	MAST ARM A ANGLE	MAST ARM B ANGLE	PEDESTRIAN SIGNAL	PEDESTRIAN BUTTON	SIGNAL CONDUIT ELL	LUMINAIRE CONDUIT ELL	BRACKET ARM (ALTERNATE 2)	BASE HANDHOLE	MAST ARM HANDHOLE
1	726+25.94	22.67' LT	924.16	TC-81.22	2	2	21.5	20	-	*17	*15	-	-	30	26	16	-	8	8	8	90	-	0/90	0/90	40	-	180	180	
2	725+74.32	30.50' LT	922.95	TC-81.22	2	2	22.5	21	22.5	*18	*16	*17	*18	30	27	17	-	9	9	9	0	-	0/270	0/270	0	245	*180	180	180
3	726+22.08	33.13' RT	924.25	TC-12.31	6	4	21.5	20	21.5	*17	*15	*16	*17	35	31.5	21.5	-	9.5	9.5	9.5	0	-	0/270	0/270	10	60	*180	180	180
-	-	-	-	-	-	12	-	20	-	-	*15	-	-	40	36	26	-	13	13	13	-	270	-	-	-	-	-	-	
4	724+14.44	22.75' LT	922.41	TC-81.22	12	4	22	20.5	22	*17.5	*15.5	*16.5	*17.5	37	33.5	24.5	15.5	9	9	9	270	-	-	-	0	160	*270	180	180
-	-	-	-	-	-	2	-	20.5	-	-	*15.5	-	-	23	19.5	9.5	-	4.5	4.5	4.5	-	0	-	-	-	-	-	-	
5	724+65.17	50.44' RT	923.87	TC-81.22	13	13	20.5	19	20.5	*18	*14	*17	*18	51	48	38	-	15	15	15	0	-	-	-	90	185	*180	180	180

*ALTERNATE BID 2 DETAILS REPLACES ALTERNATE BID 1 DETAILS AS SHOWN IN TABLE

SYMBOL SCHEDULE

MARK	LAMP TYPE	VOLTS	SOURCE AND WATTAGE BALLAST	DESCRIPTION	MFR. AND CATALOG SERIES
A ●	LED	120-277V	78 WATT	DECORATIVE: GRANVILLE LED III PREMIER POST TOP LUMINAIRE	HOLOPHANE GRANVILLE III LED WITH VALMONT LIGHT POLE OR APPROVED EQUAL PER PLAN NOTE FIXTURE: GPD3 P40 40K MVOLT MS GL3 BK RB BK POLE: 16 SHARP FLUTED 15' POLE-P9-FP/GV-(2)BANNER ARMS-(2) FLAG HOLDERS-FST-HN17AC-1"AB
B ●	LED	120-277V	78 WATT	DECORATIVE: GRANVILLE LED III PREMIER POST TOP LUMINAIRE W/ HOUSE SHIELD	HOLOPHANE GRANVILLE III LED WITH VALMONT LIGHT POLE OR APPROVED EQUAL PER PLAN NOTE FIXTURE: GPD3 P40 40K MVOLT MS GL3 BK RB BK GVDHSS90 POLE: 16 SHARP FLUTED 15' POLE-P9-FP/GV-(2)BANNER ARMS-(2) FLAG HOLDERS-FST-HN17AC-1"AB
□				PC & PG STYLE POLYMER CONCRETE BOX & COVER, OPEN BASE BOX, 36" DEPTH, LIGHTING LOGO	PULL BOX, 725.06 *SIZES LISTED BELOW

ELECTRICAL GENERAL NOTES

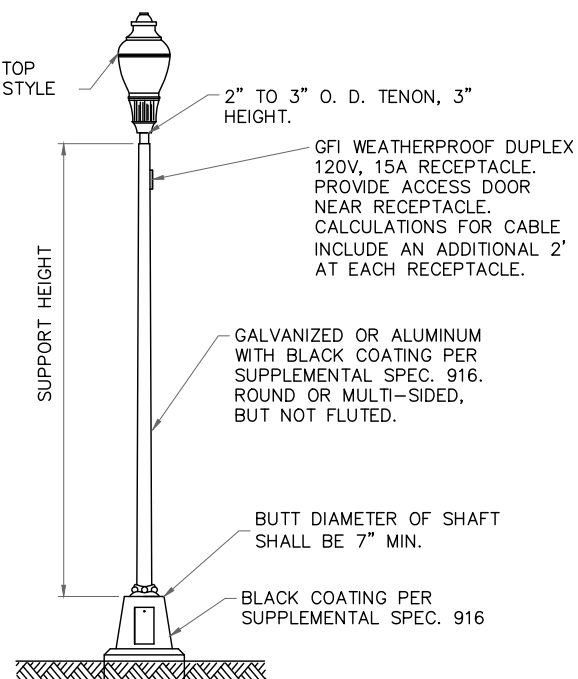
1. ALL ELECTRICAL WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE MOST RECENT VERSION OF THE OHIO BUILDING CODE, THE N.E.C. AND N.F.P.A. STANDARD NO. 70, AND IS SUBJECT TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
2. ALL NOTED MOUNTING HEIGHTS ARE FROM FINISHED GRADE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
3. THREE No. 8 AWG. AND NO. 2 AWG. 600 VOLT DISTRIBUTION CABLES SHALL BE USED FOR SUPPLYING POWER TO THE POLES.
4. THREE No. 10 AWG. POLE AND BRACKET CABLES SHALL BE USED TO SUPPLY POWER TO THE LUMINAIRE.
5. THREE No. 10 AWG. POLE AND BRACKET CABLES SHALL BE USED TO SUPPLY POWER TO THE OUTLET.

GENERAL NOTES

1. CONDUIT PLACEMENT IN ELECTRICAL DRAWINGS ARE DRAWN FOR CLARITY. ACTUAL CONDUIT SHOULD BE INSTALLED IN EXISTING RIGHT-OF-WAYS. COORDINATE EXACT CONDUIT ROUTES WITH THE ENGINEER TO AVOID CONFLICT WITH WATER SERVICE VALVES, SIGNAGE, CURBS, TREES AND OTHER LANDSCAPING.
2. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND MISCELLANEOUS CONDUIT AND PIPES PRIOR TO DIGGING. ANY DAMAGE TO UNDERGROUND UTILITIES WHEN DIGGING MUST BE REPAIRED BY THIS CONTRACTOR. NOTE: ALL REPAIRS AND MODIFICATIONS SHALL BE CLOSELY COORDINATED WITH OWNING UTILITIES OFFICIALS.
3. STUB CONDUIT THROUGH PULL BOX SIDEWALLS. USE A MANUFACTURERS RECOMMENDED WALL PUNCH AS NECESSARY FOR CONDUIT KNOCKOUTS. SIZE KNOCKOUT ONE TRADE SIZE LARGER THAN CONDUIT TO ALLOW FOR CONDUIT MOVEMENT. COORDINATE WITH THE ENGINEER FOR LOCATIONS. MOUNT BOX SUCH THAT THE TOP OF THE BOX WILL BE FLUSH WITH THE TOP OF FINISH SURFACE.
4. CONTRACTOR TO SUPPLY/INSTALL/WIRE ELECTRIC SERVICE ENCLOSURE WITH CONTENTS AND FOUNDATION.

5. THE LOCATION OF UNDERGROUND CONDUIT, SHALL BE MARKED BY USE OF CONTINUOUS IDENTIFYING TAPE BURIED IN THE TRENCH ABOVE THE LINE. THE IDENTIFYING TAPE SHALL BE AN INERT MATERIAL, APPROXIMATELY 6" WIDE, COMPOSED OF POLYETHYLENE PLASTIC, HIGHLY RESISTANT TO ALKALIS, ACID OR OTHER CHEMICAL COMPONENTS LIKELY TO BE ENCOUNTERED IN SOILS. THE TAPE SHALL BE BRIGHT YELLOW WITH IDENTIFYING PRINTING "ELECTRIC" IN BLACK LETTERS, ONE SIDE ONLY. TAPES SHALL BE SUPPLIED IN CONTINUOUS ROLLS WITH IDENTIFYING LETTERING REPEATED THE FULL LENGTH OF THE TAPE. IDENTIFYING TAPES SHALL BE BURIED IN THE ELECTRIC LINE TRENCH WITH ONE STRIP PLACED APPROXIMATELY DOWN THE CENTERLINE AND LOCATED APPROXIMATELY 8" TO 12" BELOW FINISHED GRADE. THE TAPE SHALL BE PLACED IN THE TRENCH WITH THE PRINTED SIDE UP AND SHALL BE ESSENTIALLY PARALLEL WITH THE FINISHED SURFACE. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THAT THE TAPE IS NOT PULLED, DISTORTED OR OTHERWISE MISPLACED IN COMPLETING THE TRENCH BACKFILL. TAPE SHALL BE ALLEN SYSTEM'S TERRA TAPE, TECTA TAPE OR EQUAL AS APPROVED BY THE ENGINEER.

DECORATIVE POST-TOP LUMINAIRE, ACORN STYLE (TYP.)



LIGHT POLE, DECORATIVE - (ALTERNATE 1) (ATON15)

PULLBOX TABLE

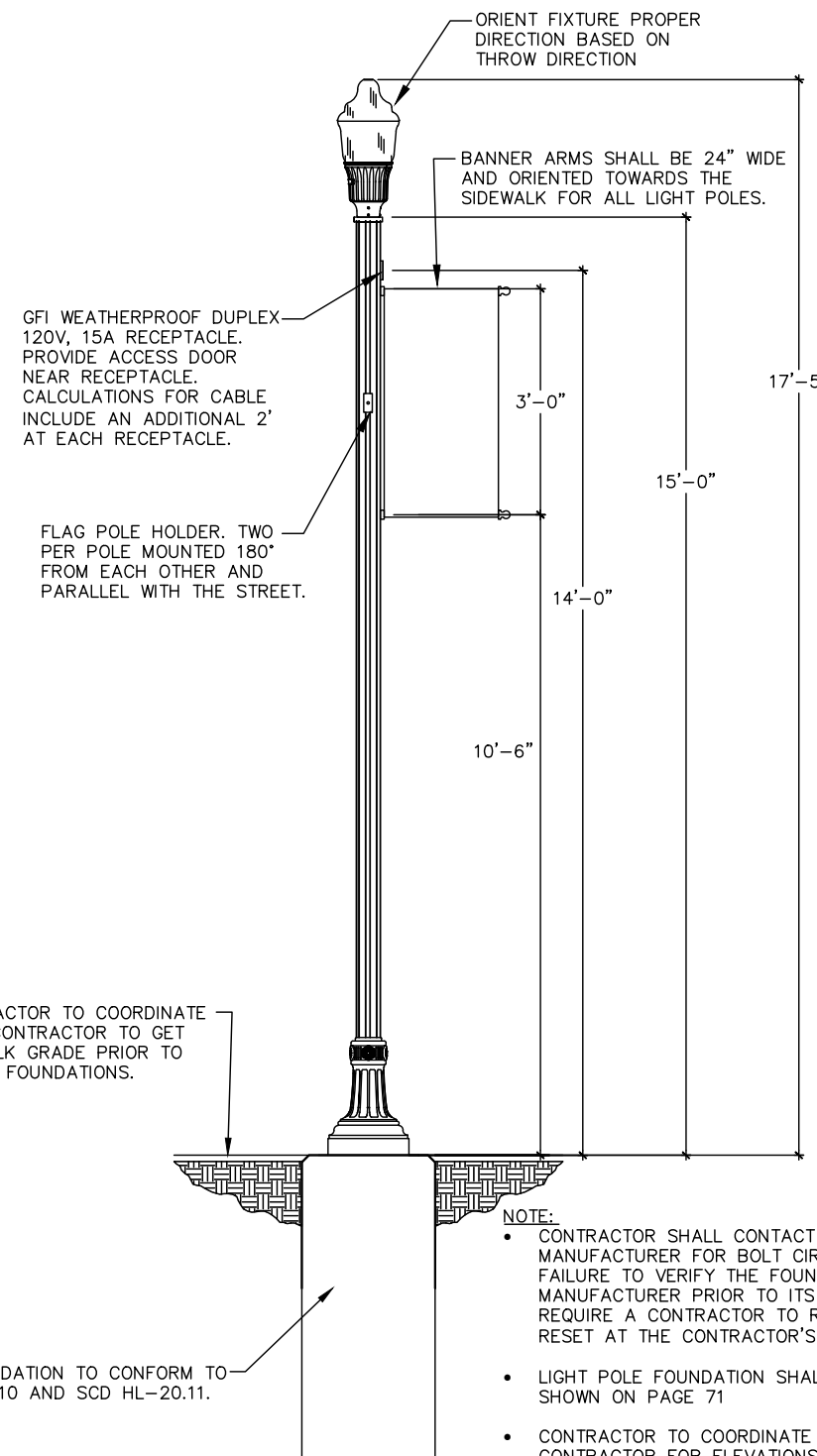
PULL BOX #	STATION	SIDE	OFFSET	SIZE* (725.06)
PBx1	724+10.43	LT	21.75'	7
PBx2	724+65.00	RT	54.68'	7
PBx3	725+78.27	LT	31.80"	7
PBx4	726+25.50	RT	30.69'	7
PBx5	734+52.72	RT	22.00'	7
PBx6	735+00.33	LT	29.50'	18
PBx7	735+24.54	RT	22.00'	7
PBx8	738+21.43	LT	22.72'	7
PBx9	738+94.50	RT	23.07'	7

*ALL PULL BOXES SHALL BE ODOT SCD HL-30.11.

LUMINAIRES NOTES:

1A-7, 1A-9, 1A-13 TO 1A-17
1A-21 TO 1A-27, 1A-31 TO 1A-34 "A" FIXTURES
1D-3, 1D-4, 1D-5, 1D-8, 1D-14,
1D-20 TO 1D-26, 1D-30

1D-1, 1D-6, 1D-10, 1D-12,
1D-16, 1D-18, 1D-28, 1D-32 "B" FIXTURES
1A-2, 1A-5, 1A-11, 1A-19, 1A-29



ELECTRIC CONTRACTOR TO COORDINATE WITH ROADWAY CONTRACTOR TO GET FINISHED SIDEWALK GRADE PRIOR TO INSTALLING POLE FOUNDATIONS.

LIGHT POLE FOUNDATION TO CONFORM TO ODOT C&MS 625.10 AND SCD HL-20.11.

NOTE:

- CONTRACTOR SHALL CONTACT THE POLE MANUFACTURER FOR BOLT CIRCLE DIMENSIONS. FAILURE TO VERIFY THE FOUNDATION WITH THE MANUFACTURER PRIOR TO ITS INSTALLATION WILL REQUIRE A CONTRACTOR TO RECONSTRUCT, OR RESET AT THE CONTRACTOR'S EXPENSE.
- LIGHT POLE FOUNDATION SHALL FOLLOW THE DETAIL SHOWN ON PAGE 71
- CONTRACTOR TO COORDINATE WITH ROADWAY CONTRACTOR FOR ELEVATIONS OF SIDEWALK TO ENSURE THE FOUNDATION WILL BE FLUSH WITH THE SIDEWALK.

LIGHT POLE, DECORATIVE - (ALTERNATE 2) (VALMONT)

STREET LIGHTING NOTES AND DETAILS

MIA HIGH STREET IMPROVEMENTS

CALCULATED
AJH
CHECKED
CCE

REF NO.	SHEET NO.	SIDE	ROADWAY	STATION TO STATION	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	
					CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, DECORATIVE, AS PER PLAN - (ALTERNATE 1) (ODOT STD.)	LIGHT POLE, DECORATIVE, AS PER PLAN - (ALTERNATE 2) (VALMONT)	LIGHT POLE FOUNDATION, 24" X 6" DEEP, AS PER PLAN	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE - (ALTERNATE 1) (ODOT STD.)	NO. 10 AWG POLE AND BRACKET CABLE - (ALTERNATE 2) (VALMONT)	CONDUIT, 2", 725.051	CONDUIT, 3", 725.051	LUMINAIRE, POST TOP, SOLID STATE (LED), AS PER PLAN, ACORN STYLE, REFRACTIVE GLASS, 4000K, BLACK FINISH - (ALTERNATE 1) (ODOT STD.)	LUMINAIRE, DECORATIVE, AS PER PLAN - (ALTERNATE 2) (HOLOPHANE)	TRENCH	PULL BOX, 725.06, SIZE 7	PULL BOX, 725.06, SIZE 18	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE
					EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	EACH	EACH	FT
1A-2	76	LT	HIGH STREET (SR 48)	724+14.44	3											1	1							
C-2A	76	LT	HIGH STREET (SR 48)	724+10.43 TO 725+78.27							36		96	90	4			4						4
PBx1	76	LT	HIGH STREET (SR 48)	724+10.43														1						
C-2B	76	LT	HIGH STREET (SR 48)	724+10.43 TO 725+78.27								534		173				173						173
1A-5	76	LT	HIGH STREET (SR 48)	725+74.32	3								96	87			1	1						
C-10	76	LT	HIGH STREET (SR 48)	725+74.32 TO 725+78.27								36		4				4						4
PBx3	76	LT	HIGH STREET (SR 48)	725+78.27			3											1						
C-11	76	LT	HIGH STREET (SR 48)	725+78.27 TO 727+04.90								420		127				127						127
1A-7	76	LT	HIGH STREET (SR 48)	727+04.90	3	1		1	1	1			138	138			1	1			1			
C-12	76	LT	HIGH STREET (SR 48)	727+04.90 TO 729.03.69							645	645		199				199						199
1A-9	76	LT	HIGH STREET (SR 48)	729.03.69	3	1		1	1	1			138	138			1	1			1			
C-13	76, 77	LT	HIGH STREET (SR 48)	729.03.69 TO 730+54.80							504	504		152				152						152
1A-11	77	LT	HIGH STREET (SR 48)	730+54.80	3	1		1	1	1			138	138			1	1			1			
C-14	77	LT	HIGH STREET (SR 48)	730+54.80 TO 731+99.74							483	483		145				145						145
1A-13	77	LT	HIGH STREET (SR 48)	731+99.74	3	1		1	1	1			138	138			1	1			1			
C-15	77	LT	HIGH STREET (SR 48)	731+99.74 TO 733+27.18							432	432		128				128						128
1A-15	77	LT	HIGH STREET (SR 48)	733+27.18	3	1		1	1	1			138	138			1	1			1			
C-16	77	LT	HIGH STREET (SR 48)	733+27.18 TO 734+64.76							480	480		144				144						144
1A-17	77	LT	HIGH STREET (SR 48)	734+64.76	3	1		1	1	1			138	138			1	1			1			
C-17	77	LT	HIGH STREET (SR 48)	734+70.76 TO 735+00.33							117	117		31				31						31
1D-1	76	RT	HIGH STREET (SR 48)	723+45.98	3	1		1	1	1			138	138			1	1			1			
C-1	76	RT	HIGH STREET (SR 48)	723+45.98 TO 724+65.00							402	402		126				126						126
1D-3	76	RT	HIGH STREET (SR 48)	724+65.17	3								93	90			1	1						
C-3	76	RT	HIGH STREET (SR 48)	724+65.17 TO 724+65.00								36		4				4						4
PBx2	76	RT	HIGH STREET (SR 48)	724+65.00			3											1						
C-4	76	RT	HIGH STREET (SR 48)	724+65.00 TO 725+08.46							207	207		56				56						56
1D-4	76	RT	HIGH STREET (SR 48)	725+08.46	3	1		1	1	1			138	138			1	1			1			
C-5	76	RT	HIGH STREET (SR 48)	725+08.46 TO 726+25.50							405	405		119				119						119
1D-6	76	RT	HIGH STREET (SR 48)	726+22.08	3								96	87			1	1						
C-6	76	RT	HIGH STREET (SR 48)	726+22.08 TO 726+25.50								36		4				4						4
PBx4	76	RT	HIGH STREET (SR 48)	726+25.50			3											1						
C-7	76	RT	HIGH STREET (SR 48)	726+25.50 TO 727+96.04							558	558		173				173						173
1D-8	76	RT	HIGH STREET (SR 48)	727+96.04	3	1		1	1	1			138	138			1	1			1			
C-8	76	RT	HIGH STREET (SR 48)	727+96.04 TO 729+72.25							579	579		177				177						177
1D-10	76	RT	HIGH STREET (SR 48)	729+72.25	3	1		1	1	1			138	138			1	1			1			
C-9	76, 77	RT	HIGH STREET (SR 48)	729+72.25 TO 731+19.06							489	489		147				147						147
1D-12	77	RT	HIGH STREET (SR 48)	731+19.06	3	1		1	1	1			138	138			1	1			1			
C-19	77	RT	HIGH STREET (SR 48)	731+19.06 TO 732+50.60							444	444		132				132						132
1D-14	77	RT	HIGH STREET (SR 48)	732+50.60	3	1		1	1	1			138	138			1	1			1			
C-20	77	RT	HIGH STREET (SR 48)	732+50.60 TO 733+94.34							483	483		145				145						145
1D-16	77	RT	HIGH STREET (SR 48)	733+94.34	3	1		1	1	1			138	138			1	1			1			
C-21	77	RT	HIGH STREET (SR 48)	733+94.34 TO 734+52.72							198	198		58				58						58
PBx5	77	RT	HIGH STREET (SR 48)	734+52.72														1						
C-22	77	RT, LT	HIGH STREET (SR 48)	734+52.72 TO 735+00.33							225	225		70				70						70
PBx6	77	LT	HIGH STREET (SR 48)	735+00.33			6																	
C-18	77	LT	HIGH STREET (SR 48)	735+00.33 TO 735+00.44							168	84		18				18			1			18
PS-1	77	LT	HIGH STREET (SR 48)	735+00.44							1200	600									1	1		
C-23	77	LT	HIGH STREET (SR 48)	735+00.44 TO 735+00.33							168	84		18				18						18
C-24	77	LT	HIGH STREET (SR 48)	735+00.33 TO 736+51.27							492	492		152				152						152
1A-19	77	LT	HIGH STREET (SR 48)	736+51.27	3	1		1	1	1			138	138			1	1			1			
C-25	77	LT	HIGH STREET (SR 48)	736+51.27 TO 738+21.43							549	549		170				170						170
PBx8	77	LT	HIGH STREET (SR 48)	738+21.43				3										1						
TOTALS CARRIED TO GENERAL SUMMARY					54	14	18	14	14	14	9228	9558	2313	2286	2640	36	18	18	2676	6	1	15	1	2676

CALCULATED
AJH
CHECKED
CCE

SUBSUMMARY - LIGHTING

MIA HIGH STREET IMPROVEMENTS

REF NO.	SHEET NO.	SIDE	ROADWAY	STATION TO STATION		625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625		
						CONNECTION, FUSED PULL APART, AS PER PLAN	CONNECTION, UNFUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, DECORATIVE, AS PER PLAN - (ALTERNATE 1) (ODOT STD.)	LIGHT POLE, DECORATIVE, AS PER PLAN - (ALTERNATE 2) (VALMONT)	LIGHT POLE FOUNDATION, 24" X 6" DEEP, AS PER PLAN	NO. 2 AWG 600 VOLT DISTRIBUTION CABLE	NO. 8 AWG 600 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE - (ALTERNATE 1) (ODOT STD.)	NO. 10 AWG POLE AND BRACKET CABLE - (ALTERNATE 2) (VALMONT)	CONDUIT, 2", 725.051	CONDUIT, JACKED OR DRILLED, 725.052, AS PER PLAN, 2"	LUMINAIRE, POST TOP, SOLID STATE (LED), AS PER PLAN, ACORN STYLE, REFRACTIVE GLASS, 4000K, BLACK FINISH - (ALTERNATE 1) (ODOT STD.)	LUMINAIRE, DECORATIVE, AS PER PLAN - (ALTERNATE 2) (HOLOPHANE)	TRENCH	PULL BOX, 725.06, SIZE 7	GROUND ROD	UNDERGROUND WARNING/MARKING TAPE	LIGHT POLE REMOVED	LIGHT POLE FOUNDATION REMOVED	LUMINAIRE REMOVED
						EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH	EACH	FT	EACH	EACH	EACH
C-26	77	LT	HIGH STREET (SR 48)	738+21.43	TO 738+25.45								36						4							
1A-21	77	LT	HIGH STREET (SR 48)		738+25.45	3																	4			
C-27	77	LT	HIGH STREET (SR 48)	738+21.43	TO 739+73.59							486	486							154						
1A-23	77	LT	HIGH STREET (SR 48)		739+73.59	3	1		1	1	1												1			
C-28	77, 78	LT	HIGH STREET (SR 48)	739+73.59	TO 741+38.40							543	543							165						
1A-25	78	LT	HIGH STREET (SR 48)		741+38.40	3	1		1	1	1												1			
C-35	78	LT	HIGH STREET (SR 48)	741+38.40	TO 743+03.14							546	546							166						
1A-27	78	LT	HIGH STREET (SR 48)		743+03.14	3	1		1	1	1												1			
C-36	78	LT	HIGH STREET (SR 48)	743+03.14	TO 744+36.97							450	450							134						
1A-29	78	LT	HIGH STREET (SR 48)		744+36.97	3	1		1	1	1												1			
C-37	78	LT	HIGH STREET (SR 48)	744+36.97	TO 745+72.38							453	453							135						
1A-31	78	LT	HIGH STREET (SR 48)		745+72.38	3	1		1	1	1												1			
C-41	78	LT	HIGH STREET (SR 48)	745+72.38	TO 747+14.28							474	474													
1A-33	78	LT	HIGH STREET (SR 48)		747+14.28	3	1		1	1	1												1			
C-42	78	LT, RT	HIGH STREET (SR 48)	747+14.28	TO 747+95.62							327	327							93						
1A-34	78	RT	HIGH STREET (SR 48)		747+95.62	3	1		1	1	1												1			
C-29	77	LT, RT	HIGH STREET (SR 48)	735+00.33	TO 735+24.54							183	183							56						
PBx7	77	RT	HIGH STREET (SR 48)		735+24.54																					
C-30	77	RT	HIGH STREET (SR 48)	735+24.54	TO 735+57.77							123	123							33						
1D-18	77	RT	HIGH STREET (SR 48)		735+57.77	3	1		1	1	1												1			
C-31	77	RT	HIGH STREET (SR 48)	735+57.77	TO 737+50.94							630	630							194						
1D-20	77	RT	HIGH STREET (SR 48)		737+50.94	3	1		1	1	1												1			
C-32	77	RT	HIGH STREET (SR 48)	737+50.94	TO 738+94.50							486	486							146						
1D-22	77	RT	HIGH STREET (SR 48)		738+90.61	3																				
C-33	77	RT	HIGH STREET (SR 48)	738+90.61	TO 738+94.50																					
PBx9	77	RT	HIGH STREET (SR 48)		738+94.50																					
C-34	77, 78	RT	HIGH STREET (SR 48)	738+94.50	TO 740+65.51							537	537							171						
1D-24	78	RT	HIGH STREET (SR 48)		740+65.51	3	1		1	1	1												1			
C-38	78	RT	HIGH STREET (SR 48)	740+65.51	TO 742+16.07							498	498							150						
1D-26	78	RT	HIGH STREET (SR 48)		742+16.07	3	1		1	1	1												1			
C-39	78	RT	HIGH STREET (SR 48)	742+16.07	TO 743+63.02							489	489							147						
1D-28	78	RT	HIGH STREET (SR 48)		743+63.02	3	1		1	1	1												1			
C-40	78	RT	HIGH STREET (SR 48)	743+63.02	TO 745+02.03							465	465							139						
1D-30	78	RT	HIGH STREET (SR 48)		745+02.03	3	1		1	1	1												1			
C-43	78	RT	HIGH STREET (SR 48)	745+02.03	TO 746+58.21							522	522							158						
1D-32	78	RT	HIGH STREET (SR 48)		746+58.21	3	1		1	1	1												1			
LB1	76	RT	HIGH STREET (SR 48)		724+95.16																					1
LB2	77	LT	HIGH STREET (SR 48)		733+29.56																					1
LR1	76	LT	HIGH STREET (SR 48)		725+64.84																					1
LR2	76	RT	HIGH STREET (SR 48)		726+68.94																					1
LR3	76	LT	HIGH STREET (SR 48)		727+71.07																					1
LR4	76	RT	HIGH STREET (SR 48)		728+78.82																					1
LR5	76	LT	HIGH STREET (SR 48)		729+76.42																					1
LR6	77	RT	HIGH STREET (SR 48)		731+03.74																					1
LR7	77	LT	HIGH STREET (SR 48)		732+01.25																					1
LR8	77	LT	HIGH STREET (SR 48)		734+02.39																					1
LR9	77	RT	HIGH STREET (SR 48)		735+16.17																					1
LR10	77	LT	HIGH STREET (SR 48)		736+13.46																					1
LR11	77	RT	HIGH STREET (SR 48)		737+01.23																					1
LR12	77	LT	HIGH STREET (SR 48)		737+92.39																					1
LR13	77	RT	HIGH STREET (SR 48)		738+83.26																					1
LR14	77	LT	HIGH STREET (SR 48)		739+84.45																					1
LR15	78	RT	HIGH STREET (SR 48)		740+99.97																					1
LR16	78	LT	HIGH STREET (SR 48)		742+25.93																					1
LR17	78	RT	HIGH STREET (SR 48)		743+29.96																					1
LR18	78	LT	HIGH STREET (SR 48)		744+61.36																					1
LR19	78	RT	HIGH STREET (SR 48)		745+89.21																					1
LR20	78	LT	HIGH STREET (SR 48)		747+10.62																					1
TOTALS CARRIED TO GENERAL SUMMARY						48	14	3	14	14	14	7212	7284	2124	2106	2049	142	16	16	2049	2	14	2049	22	20	22

CALCULATED
AJH
CHECKED
CCE

SUBSUMMARY - LIGHTING

MIA HIGH STREET IMPROVEMENTS