PAVEMENT, CONT.

ITEM 441 - ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS (448)

WHERE DIRECTED IN THE FIELD BY THE ENGINEER THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING ASPHALT BEHIND THE WALK TO THE LIMITS AS INDICATED BY THE ENGINEER IN THE FIELD.

THE ASPHALT DRIVEWAY SHALL BE REPLACED PER DETAIL ON SHEET 65.

THE COST FOR PAVEMENT REMOVAL, ITEM 304 AGGREGATE BASE, ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, ITEM 407 TACK COAT, ITEM 441 INTERMEDIATE COURSE AND ITEM 441 SURFACE COURSE SHALL BE INCLUDED IN THE COST FOR ITEM 441 ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 441 - ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS (448)

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT. CLASS QC 1P, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEMS 452 AND 608, THE COST OF EXCAVATING, FURNISHING AND COMPACTING 2" LIMESTONE SCREENING BED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THESE ITEMS. ALL CONCRETE FOR WALKS, ADA RAMPS AND DRIVES SHALL HAVE RETRACED PICTURE FRAME TOOLED EDGE JOINTS.

EXISTING PAVEMENT DISPOSAL/CASTING ADJUSTMENT

THE EXISTING ASPHALT PAVEMENT WEARING COURSE, BRICK BASE, AND CONCRETE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ONCE THE BASE IS REMOVED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DELINEATE ANY CASTINGS THAT MAY PROTRUDE ABOVE THE EXISTING CONCRETE BASE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT MATERIAL IN THE VICINITY OF THESE CASTINGS TO PROVIDE AN ADEQUATE RAMP AROUND THE CASTINGS. IN NO CASE SHALL THE CASTING REMAIN EXPOSED WITHOUT PROPER PROTECTION.

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE

AT VARIOUS LOCATIONS ALONG THE CORRIDOR AND TIMES DURING CONSTRUCTION, CIRCUMSTANCES MAY REQUIRE THE USE OF CLASS MS CONCRETE. THE USE OF THIS TYPE OF CONCRETE SHALL BE AT THE DISCRETION AND DIRECTION OF THE ENGINEER AND THE SPECIFICATIONS OUTLINED IN THESE NOTES AND ODOT CMS. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR USE BY THE

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC .: SURCHARGE FOR CLASS MS CONCRETE 260 SY

WATER WORK

ITEM 638 - WATER WORK, MISC.: WATER METER VAULT ADJUSTED TO GRADE AND WATER MANHOLE ADJUSTED TO GRADE

ON THE PLANS WHERE WATER METER VAULTS AND WATER MANHOLES ARE INDICATED TO BE ADJUSTED TO GRADE. SHALL BE ADJUSTED TO GRADE IN ACCORDANCE WITH ITEM 638.

CAREFULLY REMOVE AND CLEAN THE EXISTING FRAME. ADJUST THE HEIGHT OF THE SUPPORTING WALLS, AND RESET THE EXISTING FRAME IN MORTAR OF CONCRETE TO THE NEW

CAREFULLY REMOVE THE EXISTING COVER OR GRATE AND INSTALL A CASTING OR AN ACCEPTABLE ADJUSTING DEVICE APPROVED BY THE ENGINEER TO THE NEW GRADE INSTALLED ACCORDING TO THE DEVICE MANUFACTURER'S RECOMMENDATIONS.

ITEM 638 - WATER WORK. MISC.: WATER MANHOLE RECONSTRUCTED TO GRADE

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN ADDED TO THE GENERAL SUMMARY:

ITEM 638 - WATER WORK MISC .: WATER MANHOLE RECONSTRUCTED TO GRADE

ITEM 638 - 6" FIRE HYDRANT. AS PER PLAN

THE PAYMENT FOR THIS ITEM SHALL INCLUDE, BUT IS NOT LIMITED TO, THE INSTALLATION OF THE NEW HYDRANT, EXCAVATION, BACKFILL, BRANCH PIPING, CUT-IN TEE (INCLUDING SLEEVES. COUPLINGS. AND PIPING). GATE VALVE. VALVE BOX, THRUST BLOCKING, APPURTENANCES, AND ANY OTHER MATERIALS OR WORK REQUIRED TO INSTALL.

ITEM 638 - FIRE HYDRANT REMOVED, AS PER PLAN

THE WORK FOR THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING HYDRANT, REMOVAL OF THE EXISTING TEE, AND INSERTION OF NEW STRAIGHT PIECE OF PIPE AND COUPLINGS.

ITEM SPECIAL - EXTEND 1" COPPER WATER SERVICE CONNECTION. CITY OF CLEVELAND

ITEM SPECIAL - EXTEND 2" COPPER WATER SERVICE CONNECTION, CITY OF CLEVELAND

IN LOCATIONS WHERE AN EXISTING SERVICE STOP BOX IS CURRENTLY LOCATED LESS THAN 2'-0" BEHIND THE CURB BEING REPLACED WITH THIS PROJECT, EXTEND THE WATER SERVICE CONNECTION TO ALLOW FOR PLACEMENT OF THE PROPOSED UNDERDRAIN WHERE DIRECTED BY THE ENGINEER.

ALL WORK UNDER THESE ITEMS SHALL CONFORM TO THE LATEST CITY OF CLEVELAND, DIVISION OF WATER STANDARDS AND DETAILS FOUND AT:

HTTPS://WWW.CLEVELANDWATER.COM/CONSTRUCTION/ DESIGN-CONSTRUCTION-SPECIFICATIONS

THE BACKFILL SPECIFICATIONS REQUIRED BY CWD STD-023 SHALL BE CONSIDERED INCIDENTAL TO THE WATER SERVICE EXTENSION WORK. THE NEW SERVICE CONNECTION VALVE, VALVE STEM, AND NEW SERVICE BOX SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BIT FOR THESE ITEMS. IN ADDITION, THE REMOVAL OF THE EXISTING SERVICE BOX AND, IN CERTAIN CASES WHEN DIRECTED, THE REMOVAL OF THE EXISTING SERVICE VALVE AND TUBING, AS NOTED ON CWD STD-CO1 & STD-CO2, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THESE ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE GENERAL SUMMARY:

ITEM SPECIAL - EXTEND 1" COPPER WATER SERVICE CONNECTION, CITY OF CLEVELAND 50 FT ITEM SPECIAL - EXTEND 2" COPPER WATER SERVICE 20 FT CONNECTION, CITY OF CLEVELAND

SANITARY

ITEM 611 - DRAINAGE STRUCTURE MISC.: TEST TEE ADJUST TO GRADE

ACTIVE SANITARY SEWER CONNECTION TEST TEES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED AT THE LOCATION SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER, ALL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF ITEM

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 611 - DRAINAGE STRUCTURE MISC .: TEST TEE ADJUST TO GRADE 5 EACH

WATER QUALITY

10 EACH

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY STRUCTURES FOR WATER QUALITY TREATMENT. AREAS ARE SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE SYSTEM. PAYMENT FOR THESE DEVICES IS MADE AT THE CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER QUALITY STRUCTURE, TYPE 2.

TRAFFIC CONTROL

ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN

THE ARM ATTACHMENT SHALL BE OMITTED FROM THE OVERHEAD SIGN SUPPORT. ALL OTHER SPECS SHALL BE PER SCD TC-16.22.

ABBREVIATIONS

AA - ANCHOR ASSEMBLY ABND - ABANDONNED ATG - ADJUST TO GRADE

ATGBO - ADJUST TO GRADE BY OTHERS

₽ - BASELINE BM - BENCHMARK

BOC - BACK OF CURB

BTA - BRIDGE TERMINAL ASSEMBLY

CI - CURB INLET

CL - CLASS

← CENTERLINE

COC - CITY OF CLEVELAND

COMM - COMMERCIAL

CONST. LIMITS - CONSTRUCTION LIMITS

CUY - CUYAHOGA COUNTY

CWD - CLEVELAND WATER DEPARTMENT

DI - DUCTILE IRON PIPE

DND - DO NOT DISTURB

EB - EASTBOUND

ELEC - ELECTRIC EL - ELEVATION

EOP - EDGE OF PAVEMENT

EX - EXISTING

FC - FACE OF CURB

FDO - FOR DIRECTION ONLY

FF - FILTER FABRIC FH - FIRE HYDRANT

FL - FLOW LINE

GR - GUARDRAIL

INV - INVERT

LON - LENGTH OF NEED

LT - LEFT

MH - MANHOLE

NB - NORTHBOUND OHE - OVERHEAD ELECTRIC

PROP - PROPOSED

R&R - REMOVE AND REERECT

RCHP - ROCK CHANNEL PROTECTION

RCP - REINFORCED CONCRETE PIPE

RES - RESIDENTIAL

RNS - ROUNDED END SECTION

RR- RAILROAD

RT - RIGHT

RTG - RECONSTRUCT TO GRADE

RW - RIGHT OF WAY

SAN - SANITARY SEWER

SB - SOUTHBOUND

SH - STANDARD HIGHWAY EASEMENT

STA - STATION

STM - STORM

TBA - TO BE ABANDONED

TBRLBO - TO BE RELOCATED BY OTHERS

TBRL - TO BE RELOCATED

TBR - TO BE REMOVED

TBRO - TO BE REMOVED BY OTHERS

TCB - TOP OF CURB TC - TOP OF CASTING

TELE - TELEPHONE TR - TO REMAIN

TYP - TYPICAL

UD - UNDERDRAIN

UNKN - UNKNOWN

UTIL - UTILITY

VCP - VITRIFIED CLAY PIPE

WB - WESTBOUND

WV - WATER VALVE



				_	S	HEET NU	JM.				_		PART.	_	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	: - FT -
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				·				1				1			630	72521	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN	22	_
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	1											1			630	89702	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL		
			2									2			630	97700	2	EACH	SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	130	,
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		119										119			644	00400	119	FT	CHANNELIZING LINE, 8"		
		309										269		40	644	00500	309	FT	STOP LINE		
		1,840										1,672		168	644	00620	1,840	FT	CROSSWALK LINE, 12"		
		336										336			644	00630	336	FT	CROSSWALK LINE, 24" (LADDER STYLE)		
		1,091										867		224	644	00700	1,091	FT	TRANSVERSE/DIAGONAL LINE (WHITE)		
		4										4			644	01300	4	EACH	LANE ARROW		
		316										316			644	01500	316	FT	DOTTED LINE, 4"		
		37										26		11	644	19000	37	EACH	SHARED LANE MARKING		
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			138									138			625	25408	138	FT	CONDUIT, 2", 725.051		
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			59	125								184			625	29000	184	FT	TRENCH		
			79	194								273			625	29400	273	FT	TRENCH IN PAVED AREA		
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				12	<u> </u>	<u> </u>						12			632	05007	12		VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	129	
				8								8			632	20731	8		PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	129	1
				12								12			632	25000	12		COVERING OF VEHICULAR SIGNAL HEAD		
				8								8			632	25010	8		COVERING OF PEDESTRIAN SIGNAL HEAD		
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			73	597								670			632	40300	670	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG		
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l No.	NO.				(INCITES)		300) Q	10 NO U		SIG) MOU	SIGN, FLAT		N H	P G	P G	FG	A N	유	REMOVAL OF (SPE		
						AR	5	9	9	N PO	AP	PPC I	96	000	H A	O N	N A A	O TO	GN AL	N A L	POF	SSE		
						п.		COUND	GROUND	NO IS		ns i	0,	ź			% 816	OV/	M OM IS	NON SIG	QM d⊢	CHO		
								GR	GR		S E	SIGN		SIG	GID	Ĭ IJ) M	POS	<u> </u>	RE	l B.	Ō		
							EACH	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		-
R51	122	EAST 185TH ST		RT		01/ENH/PV										2		1						1
R52	122	NAUMANN AVE		RT		01/ENH/PV										1		1	4				<u> </u>	4
R53 R54	122 123	EAST 185TH ST EAST 185TH ST		RT LT		01/ENH/PV 01/ENH/PV										2		1	1					-
R55	123	EAST 185TH ST		LT		01/ENH/PV													1				 	1
																								1
R56	123	EAST 185TH ST		LT LT		01/ENH/PV													2				<u> </u>	↓ ≻
R57 R58	123 123	EAST 185TH ST EAST 185TH ST		LT		01/ENH/PV 01/ENH/PV													1	1			'	1 🖺
R59	123	PASNOW AVE		RT		01/ENH/PV										1		1] 🔰
R60	123	EAST 185TH ST		RT		01/ENH/PV													1					}
R61	123	EAST 185TH ST		RT		01/ENH/PV										2		1						15
R62	123	EAST 185TH ST		RT		01/ENH/PV														1				† ທ
R63	123	EAST 185TH ST		RT		01/ENH/PV													1] ա՛
R64	123	EAST 185TH ST		RT		01/ENH/PV										2		1	4				<u> </u>	SUB-SUMMARY
R65	123	EAST 185TH ST		RT		01/ENH/PV													1					⊣ თ
≥ R66	123	MEREDITH AVE		RT		01/ENH/PV										1		1						1 (5
⊵ R67	123	EAST 185TH ST		RT		01/ENH/PV													2					SIGNING
R68 R69	123 124	EAST 185TH ST EAST 185TH ST		RT LT		01/ENH/PV 01/ENH/PV										1		1	2	1			<u>'</u>	│
R09 R70	124	LAKESHORE BLVD		LT		01/ENH/PV										1		1	2	l l				1 5
7																								
≥ R71	124	LAKESHORE BLVD		LT		01/ENH/PV													2		1] ",
R72 R73	124 124	LAKESHORE BLVD EAST 185TH ST		LT LT		01/ENH/PV 01/ENH/PV													2					-
5 R74	124	EAST 185TH ST		LT		03/NFP/PV													1	1				1
R75	124	EAST 185TH ST		LT		03/NFP/PV													1					1
)SI R76	104	EAST 185TH ST		DT		01/ENH/PV													1				· · · · · · · · ·	4
870 R77	124 124	EAST 185TH ST		RT RT		01/ENH/PV													1				'	-
₩ R78	124	EAST 185TH ST		RT		01/ENH/PV													2					
R79	124	EAST 185TH ST		RT		01/ENH/PV													1				ļ	4
280 R80	124	EAST 185TH ST		RT		01/ENH/PV 01/ENH/PV													2					-
FR81	124	LOCHERIE AVE		RT		01/ENH/PV										1		1						1
R82	124	LOCHERIE AVE		RT		01/ENH/PV										1		1						1
R83	124	EAST 185TH ST		RT		01/ENH/PV 03/NFP/PV													2				<u> </u>	4
S R84	124 125	EAST 185TH ST EAST 185TH ST		RT LT		03/NFP/PV 03/NFP/PV													1					-
0																			<u> </u>					
R86	125	EAST 185TH ST		LT		03/NFP/PV			1										1					<u> і іі</u>
R87 R88	125 125	EAST 185TH ST EAST 185TH ST		LT LT		03/NFP/PV 03/NFP/PV			1	+				1					1 1	2			<u>'</u>	STREET
E R89	125	EAST 185TH ST		LT		03/NFP/PV								1		2		1	'				'	1 点
R90	125	EAST 185TH ST		LT		03/NFP/PV														2				
E 504	405	EAST 405TU OT		1.7		02/NED/D/			1										4				<u> </u>	∤ Ĕ
© R91 R92	125 125	EAST 185TH ST EAST 185TH ST		LT LT		03/NFP/PV 03/NFP/PV													1 1	2				185TH
P R93	125	EAST 185TH ST		RT		03/NFP/PV													1					
R94	125	EAST 185TH ST		RT		03/NFP/PV													1					⊥ ST
R95	125	EAST 185TH ST		RT		03/NFP/PV			1					1					1				<u> </u>	≚
R96	126	EAST 185TH ST		LT		03/NFP/PV								1					1					1 🖱
8 R97	126	EAST 185TH ST		LT		03/NFP/PV													1					CUY-EAST
R98	126	EAST 185TH ST		RT		03/NFP/PV													2					၂ ပ
R99	126 126	EAST 185TH ST EAST 185TH ST		RT RT		03/NFP/PV 03/NFP/PV			1	1				1		2		1					<u> </u>	111
* IX100	120	LACT TOUTH ST		IXI		JOHNI PIPV												-					'	$\frac{111}{173}$
<u>်</u> ပ	•	SUBTOTALS THIS SH	HEET - CARRIED	TO SHEET 1	15											20		14	42	10	1			173

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REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	PARTICIPATION CODE	GROUND ROD	GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE	SIGN, FLAT SHEET	SIGN, DOUBLE FACED, STREET	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	CALCULA SJK CHECKE
R101	126	EAST 185TH ST		RT			03/NFP/PV	EACH	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH 1	EACH	EACH 1	EACH	EACH	EACH	EACH	_
R102	126	EAST 185TH ST		RT			03/NFP/PV										1		1					
R103	127	EAST 185TH ST		LT			03/NFP/PV													1				
R104	127	EAST 185TH ST		LT			03/NFP/PV										1		1					
R105	127	EAST 185TH ST		LT			03/NFP/PV										1		1					
R106	127 127	EAST 185TH ST EAST 185TH ST		RT RT			03/NFP/PV 03/NFP/PV										1		1					\dashv
R107 R108	127	EAST 185TH ST		RT			03/NFP/PV										1 1		1					
S1	119	EAST 185TH ST	546+56	LT	R7-5	12 x 18	01/ENH/PV		13.5					1.5			'		'					⊣ წ
	1		1 1 2 3 3	=-	R7-107		01/ENH/PV				1			1.5										SUB-SUMMARY
S1A	119	EAST 185TH ST	547+68	LT	R7-107	12 x 18	01/ENH/PV		13.5					1.5										_ {
					R7-5		01/ENH/PV							1.5										_ ≥
S2	119	EAST 185TH ST	546+56	LT	R7-5		01/ENH/PV						1	1.5										_ ્ર
S3	119	EAST 185TH ST	549+32	LT	R7-5	12 x 18	01/ENH/PV		13.5					1.5										_ Υ
C4	110	FACT 105TU CT	546+62	DT	R7-1 R7-107		01/ENH/PV		12.5					1.5										— ლ
S4	119	EAST 185TH ST	540+02	RT	R7-107		01/ENH/PV 01/ENH/PV		13.5					1.5 1.5										⊣ ∷
S5	119	EAST 185TH ST	546+98	RT	D3-1	36 x 10	01/ENH/PV						1	2.5	1									— თ
₹ 50	110	2,101 10011101	010100	100	D3-1	36 x 10	01/ENH/PV						1	2.5	1									(5
S6	119	EAST 185TH ST	548+28	RT	R7-108	12 x 18	01/ENH/PV						1	1.5										SIGNING!
S7	119	EAST 185TH ST	549+34	RT	R7-108	12 x 18	01/ENH/PV						1	1.5										Z
S8 S8	120	EAST 185TH ST	549+50	LT	D3-1	36 x 10	01/ENH/PV						1	2.5	1									
Ĺ					D3-1	36 x 10	01/ENH/PV						1	2.5	1									
ĭ S9	120	WINDWARD ST	39+58	RT	R1-1	30 x 30	01/ENH/PV			13.0	1			6.3										
<u>κ</u> S10	120	EAST 185TH ST	550+30	LT	R7-1		01/ENH/PV		13.5					1.5										
ຫຼ ຣີ S11	120	EAST 185TH ST	550+77	LT	R7-5 R7-5	12 x 18 12 x 18	01/ENH/PV 01/ENH/PV		13.5					1.5 1.5										
P. 311	120	LAST 10311131	330177		R7-1		01/ENH/PV		13.3					1.5										
S12	120	EAST 185TH ST	550+90	LT	R2-1		01/ENH/PV						1	5.0										
S12A	120	EAST 185TH ST	551+13	LT	W11-2 W16-7P	36 x 36	01/ENH/PV 01/ENH/PV			14.5				9.0										
S13	120	EAST 185TH ST	551+33	LT	R7-1		01/ENH/PV		13.5					1.5										
203					R7-5	12 x 18	01/ENH/PV							1.5										
∞ S13A	120	EAST 185TH ST	552+28	RT	W11-2		01/ENH/PV						1	9.0										
٤	100	EAOT (05T): 0T	550.05		W16-9P		01/ENH/PV		40.5		1		1	2.0										
S14	120	EAST 185TH ST	552+95	LT	R7-5 R7-1		01/ENH/PV 01/ENH/PV		13.5		1			1.5 1.5					-					
S15	120	EAST 185TH ST	553+22	LT	D3-1		01/ENH/PV 01/ENH/PV				1		1	2.5	1									
J J J	120	2.01 10011101	300.22		D3-1		01/ENH/PV						1	2.5	1									
© S16	120	LANDSEER ST	59+59	RT	R12-3		01/ENH/PV			13.5				6.0										
sdu					R1-1		01/ENH/PV				1			9.0										_ ш
5 S17	120	EAST 185TH ST	553+92	LT	R7-1 R7-5		01/ENH/PV 01/ENH/PV						1	1.5 1.5										STREET
gel.																								ST
5 S17A E	120	EAST 185TH ST	549+70	RT	W11-2 W16-9P		01/ENH/PV 01/ENH/PV			14.5				9.0 2.0										185ТН
⑤ S18	120	EAST 185TH ST	550+77	RT	R7-1		01/ENH/PV		13.5					1.5										51
50					R7-108		01/ENH/PV							1.5										∞
S18A	120	EAST 185TH ST	550+98	RT	W11-2 W16-7P		01/ENH/PV 01/ENH/PV			14.5				9.0 2.0										
ds2(CUY-EAST
S19	120	ABBY AVE	50+40	LT	R1-1		01/ENH/PV			13.0	1		1	6.3		1			-	1		1		— Ψ
S20	120	EAST 185TH ST	551+61	RT	D3-1		01/ENH/PV 01/ENH/PV				1		1 1	2.5 2.5	1 1									⊢ ≽
S21	120	EAST 185TH ST	551+83	RT	D3-1 R7-108		01/ENH/PV 01/ENH/PV		13.5					1.5	1									⊣ ਨ
S S I	120		331103	131	R7-106		01/ENH/PV		10.0	<u> </u>	+			1.5					+	1		1		
§ S22	120	EAST 185TH ST	552+77	RT	R7-108	_	01/ENH/PV						1	1.5										112
§ S23	120	EAST 185TH ST	554+15	RT	R7-108	12 x 18	01/ENH/PV						1	1.5										173
 ان		SUBTOTALS THIS SH	IEET - CARRIED	TO SHEET 1	15	<u> </u>			135.0	83.0	3		18	137.0	8		7		7	1				

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REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	PARTICIPATION CODE	GROUND ROD GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	SIGN, DOUBLE FACED, STREET NAME	IGID OVERHEAD SIGN SUPPORT FOUNDATION EMOVAL OF GROUND MOUNTED	SIGN AND DISPOSAL	SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	CALCULAT SJK CHECKEI
S24	121	EAST 185TH ST	554+90	LT	R7-5	12 x 18	01/ENH/PV	EACH FT	FT	EACH	EACH	EACH 1	SF 1.5	EACH	EACH EA	CH E	ACH	EACH	EACH	EACH	EACH	EACH	-
S25	121	EAST 185TH ST	556+24	LT	R7-107		01/ENH/PV	12.0					1.5										
S25A	121	EAST 185TH ST	556+40	LT	SPECIAL	24 x 30	01/ENH/PV		13				5.0										
S26	121	CORNWALL ST	79+59	RT	SPECIAL R1-1	24 x 30 30 x 30	01/ENH/PV 01/ENH/PV		14.5	1			5.0 6.3										_
320	121	CORNWALL ST	79+59	KI	R7-1	12 x 18	01/ENH/PV		14.5	1			1.5										\dashv
S27	121	EAST 185TH ST	556+88	LT	D3-1	36 x 10	01/ENH/PV		13.8				2.5	1									∃ ≻ !
					D3-1		01/ENH/PV						2.5	1									_ בי
					SPECIAL SPECIAL	24 x 30 24 x 30	01/ENH/PV 01/ENH/PV						5.0 5.0										⊢ ≰ ∣
					SFECIAL	24 X 30	O I/LINI I/F V						3.0										⊣ ∑
S28	121	EAST 185TH ST	557+13	LT	R7-1		01/ENH/PV	13.5					1.5										- MMU
000	404	EAOT 405TH OT	557.40	1.7	R7-5		01/ENH/PV					4	1.5										_ เร
S29	121	EAST 185TH ST	557+48	LT	R7-5 R7-1		01/ENH/PV 01/ENH/PV					1	1.5 1.5										
S29A	121	EAST 185TH ST	558+45	LT	W11-2	36 x 36	01/ENH/PV		14.5				9.0										
					W16-7P		01/ENH/PV						2.0										่
S30	121	EAST 185TH ST	558+88	LT	R7-1	12 x 18	01/ENH/PV	13.5					1.5										
4					R7-5	12 x 18	01/ENH/PV						1.5										— ⴁ
₩ S31	121	EAST 185TH ST	555+06	RT	R7-108	12 x 18	01/ENH/PV	12.0					1.5										SIGNIN
- S32	121	EAST 185TH ST	555+39	RT	D3-1		01/ENH/PV					1	2.5	1									_ Z
-52					D3-1		01/ENH/PV					1	2.5	1									<u> </u>
S33	121	EAST 185TH ST	556+41	RT	R7-108 R7-107	12 x 18 12 x 18	01/ENH/PV 01/ENH/PV					1	1.5 1.5										⊣ ଜ
S34	121	EAST 185TH ST	556+80	RT	R5-107	30 x 30	01/ENH/PV		13.0	1		1	6.3										\dashv
S35	121	EAST 185TH ST	557+32	RT	W11-2	36 x 36	01/ENH/PV					1	9.0										
Ď.					W16-9P	24 x 12	01/ENH/PV					1	2.0										
S36	121	EAST 185TH ST	557+78	RT	R7-108 R7-1	12 x 18 12 x 18	01/ENH/PV 01/ENH/PV	13.5				1	1.5 1.5										_
530	121	LAST 10311131	337+76	IXI	R7-108		01/ENH/PV	15.5					1.5										\dashv
S37	121	EAST 185TH ST	558+02	RT	D3-1		01/ENH/PV					1	2.5	1									
3/E					D3-1		01/ENH/PV					1	2.5	1									
S38 S38A	121 121	RENWOOD AVE EAST 185TH ST	90+42 558+60	LT RT	R1-1 W11-2		01/ENH/PV 01/ENH/PV		13.0 14.5	1			6.3 9.0										_
730A	121	EAST 103TH ST	338100	NI	W16-7P		01/ENH/PV		14.5				2.0										-
S39	121	EAST 185TH ST	558+80	RT	R7-108		01/ENH/PV	13.5					1.5										
COU					R7-1	12 x 18	01/ENH/PV			1			1.5										_
	122	EAST 185TH ST	559+38	LT	R7-5	12 x 18	01/ENH/PV	13.5		+			1.5	-									
340	122	LAGIIOJITIJI	JJ9+30	L1	R7-5		01/ENH/PV	13.5		+			1.5					-					-
S41	122	EAST 185TH ST	559+48	RT	W11-2	36 x 36	01/ENH/PV		14.5				9.0										╛
Sd C40	400	CANTEDDUDY DE	00.50	DT	W16-9P		01/ENH/PV		445	1			2.0										— <u>::</u> :
S42	122	CANTERBURY RD	99+59	RT	R1-1 R7-1		01/ENH/PV 01/ENH/PV		14.5	1			6.3 1.5										TRE
등 S42A	122	EAST 185TH ST	560+05	LT	D3-1	36 x 10	01/ENH/PV		13.2	1			2.5	1									STI
icho					D3-1		01/ENH/PV						2.5	1									
E S43	122	EAST 185TH ST	560+38	LT	R7-1		01/ENH/PV	13.5					1.5										85ТН
S102 S44	122	EAST 185TH ST	561+91	LT	R7-5 R7-5		01/ENH/PV 01/ENH/PV					1	1.5 1.5										82
S45	122	EAST 185TH ST	562+48	LT	W11-2			SEE SIGNAL PLANS	;														⊣
0					W11-2		01/ENH/PV																⊟ ST
ds2					W16-7P		01/ENH/PV			+													_ ∢
S46	122	ROSECLIFF RD	119+60	RT	W16-7P R12-3		01/ENH/PV 01/ENH/PV		13.5	1			6.0										│ 뿐 │
J J J J J J J J J J J J J J J J J J J	122		. 10 - 50	131	R1-1		01/ENH/PV		10.0	1			9.0										⊢ CΩ
S47	122	EAST 185TH ST	559+57	LT	D3-1	36 x 10	01/ENH/PV					1	2.5	1									_ ວັ
rii A	100	EAOT 105T:: 0T	F00 : 00		D3-1		01/ENH/PV			1		1	2.5	1									
S48	122	EAST 185TH ST	563+36	LT	R7-107 R7-5		01/ENH/PV 01/ENH/PV			+		1	1.5 1.5										113
 	1	SUBTOTALS THIS SH	EET - CARRIED	TO SHEET 1		10	2.,_111// V	105.0	152.0	5		17	167.0	10									173

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							1	625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631	
							DE		PORT,	PORT,	K.	T, TYPE R PLAN	r, POLE		REET	PPORT	OVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	NGN	CALCULAT SJK CHECKET GM
							N COD	0	SUP	SUP	SIGN POST REFLECTOR	JPPORT, AS PER	ORT ASSEMBLY, MOUNTED	SHEET	D, ST	N S N	D MC OSA	D MC	D WC	MOU	MOU	HEAL SPO	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	
REF	SHEET					SIZE	PARTICIPATION	GROUND ROD	MOUNTED (MOUNTED SU NO. 3 POST	ŒFL	SUP 7, A	SSE	 	DOUBLE FACED,	OVERHEAD SIGN FOUNDATION	NUC) OUNI	AND	OLE	OLE EERE	/ERF D DIS	:, 24"	
NO.	NO.	LOCATION	STATION	SIDE	CODE	(INCHES)	CIP/	NNC) 2 I) 3 S	STF	N Sign	AT A JOUN	FLAT	LE F	LEAD	GRG	GR(D RE	GR(ND I	7F PC	NA I	SPEE 1BLY	
							ARTI	GR	ΣŽ	ΣŽ	D Z	AD S	l Odc N	SIGN,	OUB	FRH	L OF	AAN	L OF	AL G	A A L	AL C	OL S	
							<u> </u>		OUND	OUND:	SIG	OVERHEAD SIGN SU TC-16.22, DESIGN 7,	SUPP	S	Z.	0 0	OVA	OVA	OVA ST SI	MOV	MOV	MOV	CHO AS	
									A.R.	GR		OVE TC-1	NOIS		SIGN,	RIGIE	ZEM	ZEM	Pos	A.	W	REI	S	
								EACH	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	₫
S49	122	EAST 185TH ST	560+00	RT	R7-1	12 x 18	01/ENH/PV		13.5					1.5										-
					R7-108	12 x 18	01/ENH/PV							1.5]
S50 S51	122 122	NAUMANN AVE EAST 185TH ST	110+40 560+77	LT RT	R1-1 D3-1	30 x 30 36 x 10	01/ENH/PV 01/ENH/PV			13.0	1		1	6.3 2.5	1									-
					D3-1	36 x 10	01/ENH/PV						1	2.5	1									1
S52	122	EAST 185TH ST	561+00	RT	W11-2 W16-9P	36 x 36 24 x 12	01/ENH/PV 01/ENH/PV			18.5				9.0										 ⊣ ≿
					R7-108	12 x 18	01/ENH/PV							1.5										
					R7-1	12 x 18	01/ENH/PV							1.5										SUMMARY
S53	122	EAST 185TH ST	562+42	RT	W11-2	36 x 36	01/ENH/PV	SEE SIGNA	L PLANS															∃
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					W16-7P W16-7P	24 x 12 24 x 12	01/ENH/PV 01/ENH/PV																	
S54	122	EAST 185TH ST	562+90	RT	R7-107	12 x 18	01/ENH/PV		12.0					1.5										SUB
S55	122	EAST 185TH ST	563+43	RT	R7-108	12 x 18	01/ENH/PV		12.0					1.5										ା ଜ
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S56 S57	123 123	EAST 185TH ST EAST 185TH ST	564+74 566+13	LT LT	R7-5 R7-203	12 x 18 18 x 24	01/ENH/PV 01/ENH/PV						1	1.5 3.0										∃
S58	123	EAST 185TH ST	566+79	LT	R7-5	12 x 18	01/ENH/PV		13.5					1.5										SIGNING
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S60	123	EAST 185TH ST	563+79	RT	R7-1 R7-108	12 x 18	01/ENH/PV 01/ENH/PV		13.5					1.5 1.5										4
S61	123	PASNOW AVE	130+40	LT	R1-1		01/ENH/PV			13.0	1			6.3										_
S62	123	EAST 185TH ST	564+50	RT	D3-1 D3-1		01/ENH/PV 01/ENH/PV						1	2.5 2.5	1 1									4
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					R7-1	12 x 18	01/ENH/PV							1.5										╛┢
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E					W16-9P		01/ENH/PV 01/ENH/PV						1	2.0										1 7
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								625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631			
REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	PARTICIPATION CODE	GROUND ROD	MOUNTED SUPPORT, NO. 2 POST	MOUNTED SUPPORT, NO. 3 POST	POST REFLECTOR	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN	PORT ASSEMBLY, POLE MOUNTED	SIGN, FLAT SHEET	DOUBLE FACED, STREET	OVERHEAD SIGN SUPPORT FOUNDATION	EMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	EMOVAL OF GROUND MOUNTED SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"			CALCULATI SJK CHECKED
							PA	EACH	H GROUND	GROUND	EACH	D OVERHEAL T TC-16.22, I	Idns Nois EACH	SF	OG , DOIS EACH	HOVE RIGID OVE	HONAL SIG	HO SIGN	POST SU	EACH SIG	EACH SIGN	HOVA SUPPO	SCHOC EACH			
S71	124	LAKESHORE BLVD	160+36	RT	R3-H8cg	48 x 30	01/ENH/PV						1	10.0												
S72	124	LAKESHORE BLVD	160+89	LT	S5-H1	24 x 48	01/ENH/PV	1				1				1							1			
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S74 S75	124 124	EAST 185TH ST EAST 185TH ST	571+94 568+80	LT RT	R7-107 D9-2	12 x 18 24 x 24	03/NFP/PV 01/ENH/PV						1	1.5 4.0										+		
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S76	124	EAST 185TH ST	569+51	RT	R3-H8bj	36 x 30	01/ENH/PV						1	7.5												. <u>2</u> 5
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S78	124	EAST 185TH ST	569+51	RT	R3-H8bj	36 x 30	01/ENH/PV			13.0			1	7.5												S
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S80A	124	LOCHERIE AVE	155+70	LT	W14-1	30 x 30	02/ENH/PV			13				6.3												S
₹ S80B	124	LOCHERIE AVE	155+70	RT	W14-1	30 x 30	02/ENH/PV			13				6.3												SIGNING
₩ S81	124	LOCHERIE AVE	151+65	LT	R7-1	12 x 18	02/ENH/PV		12.0					1.5												Z
S82	124	LOCHERIE AVE	150+38	LT	R7-1		02/ENH/PV		12.0					1.5												Z
S83 S84	124 124	LAKESHORE BLVD EAST 185TH ST	162+06 571+93	LT RT	SPECIAL S4-3P	48 x 30 24 x 8	01/ENH/PV 01/ENH/PV		26.0				1	10.0										-		<u> </u>
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S94 S95	126 126	EAST 185TH ST EAST 185TH ST	579+28 582+40	LT LT	R7-1 R7-1	12 x 18 12 x 18	03/NFP/PV 03/NFP/PV		12.0				1	1.5 1.5										-		
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GROUNDING AND BONDING

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THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

- ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
- WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
- METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
- IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
- IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.
- F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTIONS, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

2. CONDUITS

- A. THE 725.04 CONDUIT SHALL HAVE GROUNDING BISHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
- THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.
- C. BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE FOUIPMENT GROUNDING CONDUCTOR.
- E. ALL CONDUIT SHALL BE CAPPED WITH THE DUCT SEALED.
- 3. WIRE FOR GROUNDING AND BONDING
- USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
- USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER
- II. USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.1 ABOVE.
- III. USE A MINIMUM OF 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.1. ABOVE.

GROUNDING AND BONDING (CONTINUED)

- IV. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPES(S). FOR 4 AWG OR LARGER, INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.
- IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS, WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.
- 4. GROUNDED ROD (2-6' APART)
- A ¾ INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
- THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
- THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLE POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

COND. NO.	COLOR	VEHICLE SIGNAL	PED. SIGNAL
1	BLACK	GREEN BALL	#1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIP. GROUND	EQUIP. GROUND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	<i>WHITE/</i>	YELLOW ARROW	NOT USED
£	BLACK STRIP	E	

- 6. POWER SERVICE AND DISCONNECT SWITCH
- AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR, IF SPLICED, IT SHAL BE AN EXOTHERMIC WELD BUTT SPLICE.
- THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT
- NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2, FIGURE 5-4.
- II. IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH, EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH, BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
- PAYMENT ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

ITEM 632 - VEHICULAR SIGNAL HEAD (LED), (BY SECTION), 12' LENS, 1-WAY, POLYCARBONATE, AS PER PLAN

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

- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF INJECTION MOLDED, UV STABILIZED, POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
- 2. PLASTIC LENSES SHALL BE USED.
- PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
- TRAFFIC SIGNAL MUST BE RIGID MOUNTED WITH CENTERLINE OF MAST ARM MATCHING CENTERLINE OF RED LENS.
- 6. SIGNAL HEADS SHALL BE YELLOW AND INCLUDE BACKPLATES AS PER ODOT CMS 632 AND 732.

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

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

- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
- PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
- PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- 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) MODULES SHALL MEET THE REQUIREMENTS OF CMS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE CITY OF CLEVELAND, 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.
- PEDESTRIAN SIGNAL HEAD SHALL POINT TO THE CENTERLINE OF THE CROSSWALK.
- INSTALLATION SHALL BE PER ODOT STANDARD DRAWING TC-85.10 WITH THE EXCEPTION THAT "CLAM SHELLS" SHALL NOT BE USED.

PAYMENT FOR ITEM 632 - PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, 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 - SIGNAL SUPPORT FOUNDATION, AS PER PLAN

THE CONTRACTOR SHALL PROTECT PEDESTRIANS AND VEHICLES FROM EXPOSED ANCHOR BOLTS AT ALL TIMES, UNTIL THE ASSOCIATED SIGNAL SUPPORT IS ERECTED. THE METHOD OF COVERING THE ANCHOR BOLTS SHALL BE APPROVED BY THE ENGINEER.

ALL COSTS ASSOCIATED WITH THE PROCEDURES AS OUTLINED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNIT PRICE BID PER EACH FOR ITEM 632 - SIGNAL SUPPORT FOUNDATION, AS PER PLAN.

<u>ITEM 632 - POWER SERVICE, AS PER PLAN</u>

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632.24. ELECTRIC POWER SHALL BE OBTAINED FROM CLEVELAND PUBLIC POWER (CPP) AS INDICATED IN THE PLANS. POWER SUPPLIED SHALL BE 120 VOLTS. ALL POWER CABLES AHLL BE RATED FOR 600 VOLTS AND CONSIST OF NO. 6 AWG COPPER. ALL CONNECTIONS OF POWER CABLE TO EQUIPMENT SHALL BE BY MEANS OF APPROVED SOLDERLESS TYPE CONNECTORS. THE SOLDERLESS CONNECTORS ARE TO BE TAPED. POWER SERVICE SHALL ALSO INCLUDE 2 INCH CONDUIT RISES WHERE NECESSARY.

THE CONTRACTOR SHALL MEET ON SITE WITH CPP THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT CPP TO MAKE THE NECESSARY ARRANGEMENTS.

ITEM 632 - SIGNALIZATION, MISC.: FOUNDATION TEST HOLES

IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED THAT PRECLUDE THE USE OF THE STANDARD OR ALTERNATE FOUNDATION DESIGNS, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH COMPLETE INFORMATION REGARDING THE OBSTRUCTION INCLUDING TYPE (I.E. UTILITY), SIZE, DEPTH, AND LATERAL CLEARANCES TO THE SIDES OF THE FOUNDATION EXCAVATION. THE FOUNDATION HOLE SHALL BE COVERED WITH A STEEL PLATE (3/4 INCH PLYWOOD ION PEDESTRIAN ACCESSIBLE AREA) UNTIL THE ENGINEER DETERMINES IF A NEW FOUNDATION LOCATION IS REQUIRED. IF SUBSEQUENTLY DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BACKFILL AND COMPACT THE HOLE AND PROPERLY RESTORE THE SURFACE. ALL DRIVEWAYS, SIDEWALKS, CURB, TREE-LAWNS, AND AREAS BEHIND THE SIDEWALK AND THE RIGHT-OF-WAY LINE NOT DESIGNATED FOR REMOVAL OR REPAIR THAT HAVE BEEN DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE RESTORED. GENERALLY, ANY DAMAGED SLAB SHALL BE TOTALLY REPLACED, PARTIAL REPLACEMENTS WILL BE PERMITTED ONLY IF ADJACENT SLAB IS REPLACED AND AS DIRECTED BY THE

THE CONTRACTOR SHALL BE COMPENSATED FOR EACH FOUNDATION HOLE THAT MUST BE ABANDONED. PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS, INCLUDING BACKFILL COMPACTING AND SURFACE RESTORATION, SHALL BE AT THE CONTRACT BID UNIT PRICE PER EACH FOR ITEM 632 - SIGNALIZATION, MISC .: FOUNDATION TEST HOLES FOR THE NUMBER EXCAVATED AND BACKFILLED.

ITEM 632 - SIGNAL SUPPORT, TYPE TC-81.22 (BY DESIGN), AS PFR PI AN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632 AND 732, SIGNAL SUPPORTS SHALL BE PAINTED ACCORDING TO THE FOLLOWING:

POWDER COATING - COLOR: BLACK

SURFACE PREPARATION: THE EXTERIOR STEEL SURFACE SHALL BE BLAST CLEANED TO STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION NO. 6 (SSPC-SP6) REQUIREMENTS UTILIZING CAST STEEL ABRASIVES CONFORMING TO THE SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) RECOMMENDED PRACTICE J827. THE BLAST METHOD USED IS A RECIRCULATING, CLOSED CYCLE CENTRIFUGAL WHEEL SYSTEM WITH ABRASIVE CONFORMING TO SAE SHOT NUMBER S280.

INTERIOR COATING: INTERIOR SURFACES (POLE SHAFTS ONLY) AT THE BASE END FOR A LENGTH OF APPROXIMATELY 2.0 FEET SHALL BE MECHANICALLY CLEANED AND COATED WITH A ZINC RICH EPOXY POWDER. THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN BY HEATING THE STEEL SUBSTRATE TO A MINIMUM OF 359 DEGREES FAHRENHEIT AND A MAXIMUM OF 400 DEGREES FAHRENHEIT.



EXTERIOR COATING: ALL OF THE EXTERIOR SURFACES SHALL BE COATED WITH A URETHANE OR TRIGLYCIDYL ISOCYANURATE (TRIC) POLYESTER POWDER TO A MINIMUM FILM THICKNESS OF 2.0 MILS (0.002%₃₂). THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN BY HEATING THE STEEL SUBSTRATE TO A MINIMUM OF 350 DEGREES FAHRENHEIT. THE THERMOSETTING POWDER RESIN SHALL PROVIDE BOTH INTERCOAT AS WELL AS SUBSTRATE FUSION ADHESION THAT MEETS 5A OR 5B CLASSIFICATIONS OF ASTM D3359.

COMBINATION COATING GALVANIZED-POWDER TOP COAT COLOR: BLACK

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SURFACE PREPARATION: PRIOR TO BEING INCORPORATED INTO AN ASSEMBLED PRODUCT, STEEL PLATES % INCHES OR MORE IN THICKNESS SHALL BE BLAST CLEANED WHEN REQUIRED TO REMOVE ROLLED-IN MILL SCALE, IMPURITIES AND NON-METALLIC FOREIGN MATERÍALS. AFTER ASSEMBLY, ALL WELD FLUX SHALL BE MECHANICALLY REMOVED. THE IRON OR STEEL PRODUCT SHALL BE DEGREASED BY IMMERSION IN AN AGITATED 4.5% - 6.0% CONCENTRATED CAUSTIC SOLUTION ELEVATED TO A TEMPERATURE RANGING FROM 150 DEGREES FAHRENHEIT TO 190 DEGREES FAHRENHEIT. IT SHALL NEXT BE RINSED CLEAN FROM ANY RESIDUAL EFFECTS OF THE CAUSTIC OR ACID SOLUTIONS BY IMMERSION IN A CIRCULATING FRESH WATER BATH. FINAL PREPARATIONS SHALL BE ACCOMPLISHED BY IMMERSION IN CONCENTRATED ZINC AMMONIUM CHLORIDE FLUX SOLUTION HEATED TO 130 DEGREES FAHRENHEIT. THE SOLUTIONS ACIDITY CONTENT SHALL BE MAINTAINED BETWEEN 4.5-5.0 pH. THE ASSEMBLY SHALL BE AIR-DRIED TO REMOVE ANY MOISTURE REMAINING IN THE FLUX COAT AND/OR TRAPPED WITHIN THE PRODUCT.

ZINC COATING: THE PRODUCT SHALL BE HOT-DIP GALVANIZED TO THE REQUIREMENTS OF EITHER ASTM A123 (FABRICATED PRODUCTS) OR ASTM A153 (HARDWARE ITEMS) BY IMMERSION IN A MOLTEN BATH OF PRIME WESTERN GRADE ZINC MAINTAINED BETWEEN 810 DEGREES FAHRENHEIT AND 850 DEGREES FAHRENHEIT. THE ENTIRE PRODUCT SHALL BE TOTALLY IMMERSED WITH NO PARTS PROTRUDING OUT OF THE ZINC (NO DOUBLE DIPPING). THIS IS TO LIMIT RISK OF TRAPPED CONTAMINANTS CONTAINING CHLORIDES AND REDUCE THE RISK OF BARE SPOTS (BARE SPOTS CAN OCCUR WHEN FLUX ON THE STEEL SURFACE IS BURNED AWAY BY HEAT OF THE FIRST DIP). MAXIMUM ALUMINUM CONTENT OF THE BATH SHALL BE 0.01% FLUX ASH SHALL BE SKIMMED FROM THE BATH SURFACE PRIOR TO IMMERSION AND EXTRACTION OF THE PRODUCT TO ASSURE A DEBRIS FREE ZINC COATING.

EXTERIOR COATING: ALL GALVANIZED EXTERIOR SURFACES SHALL BE COATED WITH A URETHANE OR TRIGLYCIDUL ISOCYANURATE (TRIC) POLYESTER POWDER TO A MINIMUM FILM THICKNESS OF 2.0 MILS (0.002"). PRIOR TO APPLICATION, THE SURFACES TO BE POWDER COATED SHALL BE MECHANICALLY ETCHED BY BRUSH BLASTING (REF. SSPC-SP7) AND THE ZINC COATED SUBSTRATE PREHEATED TO 450 DEGREES FAHRENHEIT FOR A MINIMUM OF ONE-HOUR IN A GAS FIRED CONVECTION OVEN. THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN TO A MINIMUM OF 350 DEGREES FAHRENHEIT. THE THERMOSETTING POWDER RESIN SHALL PROVED BOTH INTERCOAT AS WELL AS SUBSTRATE FUSION ADHESION THAT MEETS 5A OR 5B CLASSIFICATIONS OF ASTM D3359.

THE CITY OF CLEVELAND. DIVISION OF TRAFFIC ENGINEERING REQUIRES THAT THE CONTRACTOR MEET WITH A TRAFFIC DEPARTMENT REPRESENTATIVE PRIOR TO FOUNDATION INSTALLATIONS TO VERIFY LOCATIONS AND FOR FINAL POLE ORIENTATIONS. CONTACT ANDREW CROSS, TRAFFIC ENGINEER AT (216) 664-3197, 48 HOURS PRIOR TO COMMENCING WORK.

<u>ITEM 632 - PEDESTAL, 8', AS PER PLAN</u> <u>ITEM 632 - PEDESTAL, 15', AS PER PLAN</u>

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632 AND 732, PEDESTALS SHALL BE PAINTED AND FINISHED ACCORDING TO THE SIGNAL SUPPORT SPECIFICATIONS IN THESE PLANS.

ITEM 633 - CABINET, TYPE TS-2, AS PER PLAN

TRAFFIC SIGNAL CONTROLLER -

THE CONTROLLER SHALL MEET OR EXCEED ALL REQUIREMENTS SET FORTH BY THE INSTITUTE OF TRANSPORTATION ENGINEERS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND ALL ADOPTED REVISIONS. ALL TRAFFIC SIGNAL CONTROLLERS SHALL BE SIEMENS M-60.

BASE MOUNTED CABINETS -

THE CONTROLLER SHALL BE PROVIDED IN A BASE-MOUNTED CONTROL CABINET.

ALL NECESSARY INSTALLATION HARDWARE AND TEMPLATES SHALL BE PROVIDED.

MINIMUM OUTSIDE DIMENSIONS OF CABINET SHALL BE 25 INCHES (WIDTH) BY 16 INCHES (DEPTH) BY 48 INCHES (HEIGHT).

A GPS TIMESYNC UNIT SHALL BE COMPLETELY WIRED IN EACH CABINET IN ORDER TO REPORT CABINET FAILURES, DETECTOR FAILURES AND TRAFFIC COUNTS. THE CONTROLLER SHALL BE COMPLETELY COMPATIBLE WITH THE LATEST EDITION OF THE CITY OF CLEVELAND'S CLOSED LOOP SYSTEM SOFTWARE.

THE ITEMS SUPPLIED SHALL BE IN CONFORMANCE WITH THE ABOVE REFERENCE SPECIFICATION AND SHALL BE SUPPLEMENTED WITH THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT FOR ACCEPTED MATERIALS WILL BE MADE AT THE UNIT BID PRICE OF EACH ITEM INSTALLED AND ACCEPTED.

ITEM 630 - SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING A RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY. THE FLASHING UNIT SHALL BE PEDESTRIAN ACTIVATED AND 2-SIDED WITH TWO LED ARRAY BASED YELLOW INDICATIONS ON EACH SIDE. THE UNIT SHALL BE COMPLIANT WITH THE MOST CURRENT OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD) AND FHWA INTERIM APPROVAL FOR RRFBS (14-21).

GENERAL REQUIREMENTS -

EACH RRFB SHALL CONSIST OF TWO RAPIDLY FLASHED RECTANGULAR-SHAPED YELLOW INDICATIONS HAVING LED ARRAY BASED LIGHT SOURCE.

EACH RRFB SHALL BE A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.).

FUNCTIONAL REQUIREMENTS -

EACH RRFB SHALL BE ACTIVATED BY ADA COMPLIANT PUSHBUTTONS.

THE RRFB SHALL BE NORMALLY DARK, SHALL INITIATE OPERATION ONLY UPON PEDESTRIAN ACTUATION, AND SHALL CEASE OPERATION AFTER A PREDETERMINED TIME LIMIT (BASED ON OMUTCD PROCEDURES).

EACH REMOTE RRFB SHALL BE WIRELESSLY ACTIVATED.

ALL RRFB LIGHT INDICATIONS SHALL BE WIRELESSLY SYNCHRONIZED (ALL LIGHTS WILL TURN ON WITHIN 120 MSEC AND REMAIN SYNCHRONIZED THROUGHOUT THE DURATION OF THE FLASHING CYCLE).

MATERIALS -

FURNISH A COMPLETE ASSEMBLY, CONSISTING OF BUT NOT LIMITED TO, SIGNAGE, SIGN MOUNTING HARDWARE, INDICATIONS, POLE MOUNTED CONTROLLER, AND ELECTRICAL COMPONENTS (WIRING, SOLID-STATE CIRCUIT BOARDS, ETC.). THE RRFB ASSEMBLY INCLUDES THE FOLLOWING ITEMS:

- 1. RRFB INDICATIONS
- A. EACH RRFB INDICATION LENS SHALL BE A MINIMUM SIZE OF APPROXIMATELY 5" WIDE X 2" HIGH.
- B. THE RRFB INDICATIONS SHALL BE ALIGNED HORIZONTALLY, WITH THE LONGER DIMENSION OF THE INDICATION HORIZONTAL. THERE SHALL BE TWO INDICATIONS ON THE FRONT AND TWO INDICATIONS ON THE BACK.
- C. EACH RRFB SHALL BE SUPPLIED WITH ALL REQUIRED HARDWARE TO INSTALL ASSEMBLY. ALL EXPOSED HARDWARE SHALL BE ANTI-VANDAL.
- D. EACH RRFB SHALL BE LOCATED BETWEEN THE BOTTOM OF THE CROSSING WARNING SIGN AND THE TOP OF THE SUPPLEMENTAL DOWNWARD DIAGONAL ARROW PLAQUE.
- E. THE LIGHT INTENSITY OF THE YELLOW INDICATIONS
 SHALL MEET THE MINIMUM CLASS I SPECIFICATIONS
 OF SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)
 STANDARD J595 (DIRECTIONAL FLASHING OPTICAL
 WARNING DEVICES FOR AUTHORIZED EMERGENCY,
 MAINTENANCE, AND SERVICE VEHICLES) DATED
 JANUARY, 2005.
- F. TO MINIMIZE EXCESSIVE GLARE DURING NIGHTTIME CONDITIONS, AN AUTOMATIC SIGNAL DIMMING DEVICE SHALL BE USED TO REDUCE THE BRILLIANCE OF THE RRFB INDICATIONS.
- G. SMALL LED CONFIRMATION LIGHT DIRECTED AT AND VISIBLE TO PEDESTRIANS IN THE CROSSWALK SHALL BE INSTALLED INTEGRAL TO THE RRFB OR PUSHBUTTON TO GIVE CONFIRMATION THAT THE RRFB IS IN OPERATION.

ITEM 630 - SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY (CONTINUED)

- 1. SIGNS
- A. ALL SIGN ASSEMBLIES SHALL USE ANTI-VANDAL FASTENERS TO MOUNT COMPONENTS TO SIGN AND SIGN TO FIXTURE.
- B. PEDESTRIAN PUSHBUTTON SIGNS SHALL BE PROVIDED AND INCLUDE THE LEGEND "PUSH BUTTON TO TURN ON WARNING LIGHTS". SIGNS SHOULD BE MOUNTED ADJACENT TO OR INTEGRAL WITH EACH PEDESTRIAN PUSHBUTTON.
- C. TWO SETS OF SIGNS SHALL BE REQUIRED PER UNIT FOR VIEW FROM EACH APPROACH.
- D. ASSURE SIGN MEETS THE REQUIREMENTS OF C\$MS 630.
- 3. CONTROL CIRCUIT
- A. THE CONTROL CIRCUIT SHALL HAVE THE CAPABILITY
 OF INDEPENDENTLY FLASHING UP TO TWO
 INDEPENDENT OUTPUTS. THE LED LIGHT OUTPUTS AND
 FLASH PATTERN SHALL BE COMPLETELY
 PROGRAMMABLE.
- B. THE CONTROL CIRCUIT SHALL BE SEALED WATERTIGHT TO ELIMINATE DIRT CONTAMINATION AND ALLOW FOR SAFE HANDLING IN ALL WEATHER CONDITIONS.
- C. THE LEDS SHALL BE SEALED AGAINST DUST AND MOISTURE INTRUSION AS PER THE REQUIREMENTS OF NEMA STANDARD 250-1991 FOR TYPE 4 ENCLOSURE AND TO PROTECT ALL INTERNAL LED AND ELECTRICAL COMPONENTS.
- 5. PUSHBUTTON
- A. THE PUSHBUTTON SHALL BE CAPABLE OF CONTINUOUS OPERATION OVER A TEMPERATURE RANGE OF - 30 DEGREES F TO +165 DEGREES F.
- B. PUSHBUTTON SHALL BE ADA COMPLIANT.
- 6. PEDESTAL SHAFT AND BASE MOUNT ON A STANDARD 4.5-INCH OD ALUMINUM PEDESTAL POLE WITH BREAKAWAY BASE. A 12.5 FOOT POLE SHALL BE PROVIDED AND FIELD ADJUSTED AND CAPPED TO MAINTAIN THE PROPER SIGN MOUNTING HEIGHTS, UNLESS SPECIFIED OTHERWISE IN THE PLANS. POLE AND BASE MANUFACTURER SHALL BE LISTED ON ODOT'S QUALIFIED PRODUCTS LIST.

CONSTRUCTION -

THE RRFB SHALL BE ASSEMBLED AND CONSTRUCTED BY THE CONTRACTOR AS SHOWN AND SPECIFIED ON THE PLANS.

WARRANTY -

WARRANTY SHALL BE TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE. MEASUREMENT - THE DEPARTMENT WILL MEASURE THE ITEM COMPLETE IN PLACE, INCLUDING ALL MATERIALS, TESTING, LABOR AND SOFTWARE FOR A FULLY FUNCTIONAL UNIT.

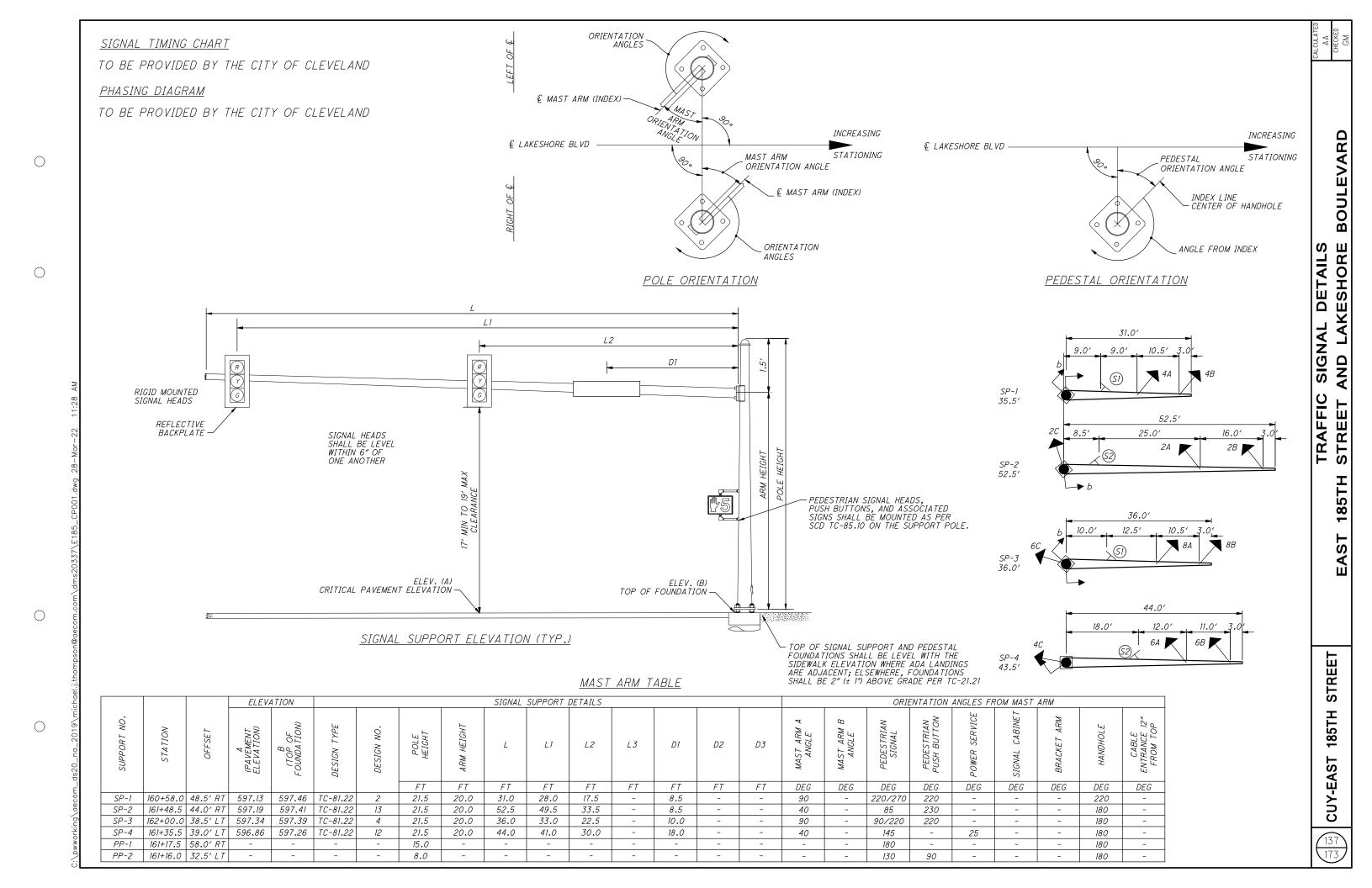
PAYMENT -

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER EACH FOR ITEM 630 - SIGNING, MISC.: RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY.

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ITEM 441 - ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS (448)

WHERE DIRECTED IN THE FIELD BY THE ENGINEER THE CONTRACTOR SHALL REMOVE AND REPLACE THE EXISTING ASPHALT BEHIND THE WALK TO THE LIMITS AS INDICATED BY THE ENGINEER IN THE FIELD.

THE ASPHALT DRIVEWAY SHALL BE REPLACED PER DETAIL ON SHEET 82.

THE COST FOR PAVEMENT REMOVAL, ITEM 304 AGGREGATE BASE, ITEM 407 TACK COAT FOR INTERMEDIATE COURSE, ITEM 407 TACK COAT, ITEM 441 INTERMEDIATE COURSE AND ITEM 441 SURFACE COURSE SHALL BE INCLUDED IN THE COST FOR ITEM 441 ASPHALT CONCRETE, MISC.: ASPHALT BEHIND DRIVES AND WALKS.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 441 - ASPHALT CONCRETE, MISC.: ASPHALT BEHIND
DRIVES AND WALKS (448) 5 CY

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEMS 452 AND 608, THE COST OF EXCAVATING, FURNISHING AND COMPACTING 2" LIMESTONE SCREENING BED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THESE ITEMS. ALL CONCRETE FOR WALKS, ADA RAMPS AND DRIVES SHALL HAVE RETRACED PICTURE FRAME TOOLED EDGE JOINTS.

EXISTING PAVEMENT DISPOSAL/CASTING ADJUSTMENT

THE EXISTING ASPHALT PAVEMENT WEARING COURSE, BRICK BASE, AND CONCRETE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ONCE THE BASE IS REMOVED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DELINEATE ANY CASTINGS THAT MAY PROTRUDE ABOVE THE EXISTING CONCRETE BASE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT MATERIAL IN THE VICINITY OF THESE CASTINGS TO PROVIDE AN ADEQUATE RAMP AROUND THE CASTINGS. IN NO CASE SHALL THE CASTING REMAIN EXPOSED WITHOUT PROPER PROTECTION.

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE

AT VARIOUS LOCATIONS ALONG THE CORRIDOR AND TIMES DURING CONSTRUCTION, CIRCUMSTANCES MAY REQUIRE THE USE OF CLASS MS CONCRETE. THE USE OF THIS TYPE OF CONCRETE SHALL BE AT THE DISCRETION AND DIRECTION OF THE ENGINEER AND THE SPECIFICATIONS OUTLINED IN THESE NOTES AND ODOT CMS. THE FOLLOWING ESTIMATED QUANTITY IS CARRIED TO THE GENERAL SUMMARY FOR USE BY THE FNGINFFR:

ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT, MISC.: SURCHARGE FOR CLASS MS CONCRETE

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ITEM 609 - CURB, MISC.: INTEGRAL CURB AND WALK

WHERE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER, REPLACE INTEGRAL CURB AND WALK PER THE DETAILS ON SHEET 11. IN ADDITION TO THE REQUIREMENTS OF ITEMS 608 AND 609, THE COST OF EXCAVATING, FURNISHING AND COMPACTING 2" LIMESTONE SCREENING BED UNDER THE WALK PORTION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THIS ITEM. THE NOSING OF THE CURB SHALL BE 1/2 INCH.

SANITARY

ITEM 611 - DRAINAGE STRUCTURE MISC.: TEST TEE ADJUST TO GRADE

ACTIVE SANITARY SEWER CONNECTION TEST TEES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED AT THE LOCATION SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER, ALL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF ITEM 611.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 611 - DRAINAGE STRUCTURE MISC.: TEST TEE ADJUST TO GRADE 5 EACH

TRAFFIC CONTROL

ITEM 630 - OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN

THE ARM ATTACHMENT SHALL BE OMITTED FROM THE OVERHEAD SIGN SUPPORT. ALL OTHER SPECS SHALL BE PER SCD TC-16.22.

ABBREVIATIONS AA - ANCHOR ASSEMBLY ABND - ABANDONNED ATG - ADJUST TO GRADE ATGBO - ADJUST TO GRADE BY OTHERS ₽ - BASELINE BM - BENCHMARK BOC - BACK OF CURB BTA - BRIDGE TERMINAL ASSEMBLY CI - CURB INLET CL - CLASS ← CENTERLINE COC - CITY OF CLEVELAND COMM - COMMERCIAL CONST. LIMITS - CONSTRUCTION LIMITS CUY - CUYAHOGA COUNTY CWD - CLEVELAND WATER DEPARTMENT DI - DUCTILE IRON PIPE DND - DO NOT DISTURB

DND - DO NOT DISTURB
EB - EASTBOUND
ELEC - ELECTRIC
EL - ELEVATION

EOP - EDGE OF PAVEMENT EX - EXISTING

FC - FACE OF CURB
FDO - FOR DIRECTION ONLY

FF - FILTER FABRIC
FH - FIRE HYDRANT
FL - FLOW LINE
GR - GUARDRAIL
INV - INVERT
LON - LENGTH OF NEED

LT - LEFT
MH - MANHOLE
NB - NORTHBOUND
OHE - OVERHEAD ELECTRIC
PROP - PROPOSED

R&R - REMOVE AND REERECT RCHP - ROCK CHANNEL PROTECTION

RCP - REINFORCED CONCRETE PIPE RES - RESIDENTIAL

RNS - ROUNDED END SECTION RR- RAILROAD

RT - RIGHT RTG - RECONSTR

RTG - RECONSTRUCT TO GRADE RW - RIGHT OF WAY

SAN - SANITARY SEWER SB - SOUTHBOUND

SH - STANDARD HIGHWAY EASEMENT

STA - STATION STM - STORM

TBA - TO BE ABANDONED

TBRLBO - TO BE RELOCATED BY OTHERS

TBRL - TO BE RELOCATED

TBR - TO BE REMOVED

TBRO - TO BE REMOVED BY OTHERS

TCB - TOP OF CURB TC - TOP OF CASTING TELE - TELEPHONE TR - TO REMAIN

TYP - TYPICAL UD - UNDERDRAIN

UNKN - UNKNOWN

UTIL - UTILITY

VCP - VITRIFIED CLAY PIPE

WB - WESTBOUND WV - WATER VALVE

24 239

					SHEET NUI	M.				_	PAI	RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	
4	28	99	101	170	175	190	195	208	209		05/ENH/PV	07/NFP/PV	11211	EXT	TOTAL	01111	BESCHI TON	NO.	١٧٠
																	WATER WORK		1
		3	1									4	638	98000	4		WATER WORK, MISC.: WATER METER VAULT REMOVED	96	
		5	13									18	638	98000	18	EACH	WATER WORK, MISC.: WATER METER VAULT ADJUSTED TO GRADE	96	
		3										3	638	98000	3	EACH	WATER WORK, MISC.: WATER METER VAULT RECONSTRUCTED TO GRADE	96	
												LS	638	98100	LS		WATER WORK, MISC.: CLEVELAND WATER DEPARTMENT CHARGES		
			5,211									5,211	638	98600	5,211	FT	WATER WORK, MISC.: TEMPORARY WATERLINE	96	
			557									557	638	98600	557	FT	WATER WORK, MISC.: FILL AND PLUG EXISTING CONDUIT	96	
																	SANITARY SEWER		
											5		611	99900	5	EACH	DRAINAGE STRUCTURE, MISC.: TEST TEE ADJUST TO GRADE	24	П
																			П
																	TRAFFIC CONTROL		П
				506.1							506.1		630	02100	506.1	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
				667.1							667.1		630	03100	667.1	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		
				83.4							83.4		630	08004	83.4	FT	ONE WAY SUPPORT, NO. 3 POST		
				23							23		630	08600	23	EACH	SIGN POST REFLECTOR		
				1							1		630	72521	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7, AS PER PLAN	24	П
																			П
						4	4				8		630	79101	8	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	189	
				91				1			91		630	79500	91	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED		
				929.5		4					933.5		630	80100	933.5		SIGN, FLAT SHEET		
				38							38		630	80500	38		SIGN, DOUBLE FACED, STREET NAME		
						4	4				8		630	80511	8	EACH	SIGN, STREET NAME, AS PER PLAN	189	
																			_
	20											20	630	83000	20	SF	COVERING OF SIGN		_
				1							1		630	84510	1		RIGID OVERHEAD SIGN SUPPORT FOUNDATION		_
				65							46	19	630	84900	65		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		_
				5							4	1	630	85100	5		REMOVAL OF GROUND MOUNTED SIGN AND REERECTION		_
				40	1			1			28	12	630	86002	40		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		_
				10		1		1					000	00002	10	2,1011	TELINOVIE SI GIROGIA MOGINEDI GOT SCI I SINI VIND DISI GONE		_
				153							141	12	630	87500	153	ΕΔCH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL		_
				7		 	_	<u> </u>			5	2	630	87520	7		REMOVAL OF POLE MOUNTED SIGN AND REFRECTION		_
-				1							J		030	67320	,	LACII	REMOVAE OF POLE MODITIES SIGN AND RELECTION		_
+				2		I	+	 			2		631	92990	2	EVCH	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"		_
						-		1					031	92990		EACH	SOLIOGE OF EED EIWIT SIGN AGSEMBET, 24 A 30		_
					0.87	<u> </u>		 			0.87		644	00100	0.87	MILE	EDGE LINE, 4" (WHITE)		_
					0.02	+	+	1	1		0.02		644	00100	0.02		EDGE LINE, 4" (WHITE) EDGE LINE, 4" (WHITE, 2' LONG, 4' GAP)		
					0.02	<u> </u>		1			0.02	0.04	644	00100	0.02		EDGE LINE, 4" (YELLOW)		_
					0.04	+	+	 				0.04	644	00200	0.04		LANE LINE, 4"		
_						_	_	<u> </u>			0.22	0.24	644				CENTER LINE (DASHED SOLID)		_
-+					0.23	<u> </u>		 			0.23		044	00300	0.23	IVIILE	GENTEN EINE (DAGTED GOLID)		_
					0.04	-		-			0.00	0.00	644	00000	0.04	MUE	CENTER LINE (DOTTED, 2' LONG, 4' GAP)		_
					0.04	1					0.02	0.02	644	00300	0.04		CENTER LINE (DOUBLE SOLID)		_
					1.04						0.52	0.52	644	00300	1.04				_
					1,573						380	1,193	644	00400	1,573		CHANNELIZING LINE, 8"		_
					528			_			000	528	644	00400	528		CHANNELIZING LINE, 8" (3' LONG, 9' GAPS)		_
_					561	ļ	_	 			369	192	644	00500	561	FT	STOP LINE		
					0.470	ļ		1			0.050				0.470				
					3,173	-					2,259	914	644	00620	3,173		CROSSWALK LINE, 12"		
_					442	ļ	_	_			442		644	00630	442		CROSSWALK LINE, 24" (LADDER STYLE)		_
-					1,144						1,144		644	00700	1,144		TRANSVERSE/DIAGONAL LINE (WHITE)		_
_					362						20	342	644	00700	362		TRANSVERSE/DIAGONAL LINE (YELLOW)		_
					73		_				17	56	644	00900	73	SF	ISLAND MARKING (YELLOW)		
					36						14	22	644	01300	36		LANE ARROW		
					2							2	644	01350	2		LANE REDUCTION ARROW		_
					160						75	85	644	01500	160		DOTTED LINE, 4" (2' LONG, 4' GAPS)		_
					352							352	644	01500	352		DOTTED LINE, 4" (3' LONG, 9' GAPS)		_
					31						31		644	19000	31	EACH	SHARED LANE MARKING		_
								850	787		1,637		647	50110	1,637	SF	PAVEMENT MARKING, MISC.: DECORATIVE CROSSWALK	203	
																	TRAFFIC SIGNALS		
						770	614				1,384		625	25504	1,384	FT	CONDUIT, 3", 725.051	189	
						48					48		625	25604	48	FT	CONDUIT, 4", 725.051	189	_
						128	151				279		625	29000	279	FT	TRENCH		
						352	229				581		625	29400	581	FT	TRENCH IN PAVED AREA	1	_
						4	5				9		625	30520	9		PULL BOX, 725.06, SIZE 7	189	_
						1													_
										-						E4011	DULL DOV 705 00 0175 40		_
1						2	1				3		625	30530	3	EACH	PULL BOX, 725.06, SIZE 18	189	

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					SHEET NU	JM.	_					PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEE
27	29	170	190	191	195	196	207	208	209	210	05/ENH/PV	06/ENH/PV	08/NFP/PV	TIEN	EXT	TOTAL	ONT	DESCRIPTION	NO.
																		TRAFFIC SIGNALS	
			8		8						16			632	05007	16	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	188
			1		2						3			632	05087	3		VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	188
			8		8						16			632	20731	16	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	188
			9		10						19			632	25000	19	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
_			8		8						16			632	25010	16	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
			4								4			632	26001	4	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN	187
			9		2						11			632	26500	11	EACH	DETECTOR LOOP	
			632								632			632	40300	632	FT	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	
			1,265		1,199						2,464			632	40500	2,464		SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
			1,079		1,103						2,182			632	40700	2,182	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
										ļ									
				4	4						8			632	64011	8		SIGNAL SUPPORT FOUNDATION, AS PER PLAN	188
				2	2						4			632	64020	4	EACH	PEDESTAL FOUNDATION	
				462	200						662			632	65200	662	FT	LOOP DETECTOR LEAD-IN CABLE	
				77	75						152			632	68300	152		POWER CABLE, 3 CONDUCTOR, NO. 6 AWG	
				31		51					82			632	69800	82	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG	
J				1		1		1			2			632	70001	2	EACH	POWER SERVICE, AS PER PLAN	188
				1		1				<u> </u>	2			632	70600	2	EACH	CONDUIT RISER, 3" DIAMETER	
				1		1		1		L	2			632	72101	2		SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN	188
				1		1					2			632	72111	2		SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	188
				1		1					2			632	72131	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	188
				1		1					2			632	72141	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	188
				1		1					2			632	89601	2	EACH	PEDESTAL, 8', AS PER PLAN	189
				1		1					2			632	89751	2	EACH	PEDESTAL, 15', AS PER PLAN	189
				1		1					2			632	90101	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	187
				7		7					14			632	90400	14	EACH	SIGNALIZATION, MISC.: FOUNDATION TEST HOLE	188
				480		380					860			632	90500	860	FT	SIGNALIZATION, MISC.: PLASTIC CAUTION TAPE	187
				1		1					2			633	45000	2	EACH	GPS (GLOBAL POSITIONING SYSTEM) CLOCK ASSEMBLY	
				1		1					2			633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN	189
				1		1					2			633	67100	2	EACH	CABINET FOUNDATION	
				1							1			633	67200	1	EACH	CONTROLLER WORK PAD	
				1		1					2			809	69122	2	EACH	ATC CONTROLLER	
																		LANDSCAPING/STREETSCAPE	
										59		59		661	14001	59	EACH	PERENNIALS, AS PER PLAN (ACHILLEA MILLEFOLIUM 'LITTLE MOONSHINE')	207
										134		134		661	14001	134		PERENNIALS, AS PER PLAN (LIATRIS SPICATA 'KOBOLD')	207
								1		63		63		661	14001	63		PERENNIALS, AS PER PLAN (PEROVSKIA ATRIPLICIFOLIA 'DENIM 'N LACE')	207
								1		182		182		661	14001	182		PERENNIALS, AS PER PLAN (SPOROBOLUS HETEROLEPIS 'TARA')	207
										8		8		661	20041	8		DECIDUOUS SHRUB, 2' HEIGHT, AS PER PLAN (HYDRANGEA QUERCIFOLIA)	207
								1		1		1		661	40081	1	EACH	DECIDUOUS TREE, 2" CALIPER, AS PER PLAN (CERCIS CANADENSIS)	207
			1							12		9	3	661	40081	12	EACH	DECIDUOUS TREE, 2" CALIPER, AS PER PLAN (KOEREUTERIA PANICULATA)	207
			1					1		6		6	1	661	40081	6		DECIDUOUS TREE, 2" CALIPER, AS PER PLAN (MAACKIA AMURENSIS)	207
										20	1	20		661	40081	20		DECIDUOUS TREE, 2" CALIPER, AS PER PLAN (SYRINGA RETICULATA 'IVORY SILK')	207
1		-	1					1		41	1	40	1	661	99900	41	EACH	PLANTING, MISC.: EXISTING TREE CARE	206
								1		† · · ·	1		-				1	,	1
							10	1	†	†	1	10		661	99900	10	EACH	PLANTING, MISC.: TREE REPLACEMENT	207
							10		1	478	1	478		661	99930	478		PLANTING, MISC.: STONE MULCH	207
							10						1		99950	3,073	FT	PLANTING, MISC.: ROOT BARRIER	_
							10			3,073		2,905	168	וממ				, e e e e e e e e e e e e e e e e e e e	207
							10					2,905	168	661	33300	,			207
							10	6	2			2,905	168			8	EACH	TRASH RECEPTACLE	
							10	6	2				168	SPECIAL	68014550		EACH	TRASH RECEPTACLE	207
							10						168	SPECIAL	68014550	8			204
							10	3	2			8 5	168	SPECIAL SPECIAL	68014550 69050560		EACH	BICYCLE RACK	204
							10	3 4				8 5 7	168	SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000	8 5 7	EACH EACH	BICYCLE RACK BENCH TYPE A	204 204 204
							10	3 4 3	2 3			8 5 7 3	168	SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000	5 7 3	EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B	204 204 204 204
							10	3 4 3 21	2			5 7 3 26	168	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000	8 5 7	EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER	204 204 204 204 204 205
								3 4 3	2 3			8 5 7 3	168	SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000	5 7 3	EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B	204 204 204 204
								3 4 3 21	2 3			5 7 3 26	168	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000 69098000	5 7 3	EACH EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER GATEWAY TOTEM SIGN	204 204 204 204 205 205
								3 4 3 21 1	2 3			5 7 3 26	1	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000 69098000	8 5 7 3 26 1	EACH EACH EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER GATEWAY TOTEM SIGN PUBLIC ART FOUNDATION	204 204 204 204 205 205
								3 4 3 21	2 3			5 7 3 26	168 1 1 26,000	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000 69098000	5 7 3	EACH EACH EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER GATEWAY TOTEM SIGN	204 204 204 204 205 205
								3 4 3 21 1	2 3			5 7 3 26	1	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000 69098000	8 5 7 3 26 1	EACH EACH EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER GATEWAY TOTEM SIGN PUBLIC ART FOUNDATION	204 204 204 204 205 205
								3 4 3 21 1	2 3			5 7 3 26	1	SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL SPECIAL	68014550 69050560 69098000 69098000 69098000 69098000	8 5 7 3 26 1	EACH EACH EACH EACH EACH	BICYCLE RACK BENCH TYPE A BENCH TYPE B DECORATIVE STREET BANNER GATEWAY TOTEM SIGN PUBLIC ART FOUNDATION	204 204 204 204 205 205

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							625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631		<u> </u>
								ORT,	\ \ 	TSC		TYPE PLAN	POLE		Ë	ORT	TED	TED	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	Ω.				ALCULAT SJK CHECKE
						CODE		PQ	l g	3 PC	R R	, X	, P		"	<u> </u>	EMOVAL OF GROUND MOUNT SIGN AND DISPOSAL	OVAL OF GROUND MOUNT SIGN AND REERECTION	NO SO	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"		CAL
							Ω	l li	SUPP	l o	ECT	OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	r ASSEMBLY, UNTED	H), ST	SUP	MC	OT C	MC	100 SAI	Joh	11 S X 36		ĺ
						<u>N</u>	RO	S CIS	ED S	ž	2	JPP AS	ED E	l 影	8	<u> 6</u>	SPC SPC	N DN S		.E N SPC	i ii Xi	M. 4.		1
REF	SHEET	LOCATION	STATION	SIDE	CODE SIZE	PARTICIPATION	GROUND	MOUNTED SUF NO. 2 POST	MOUNTED 8	, Š	REFL	JS Z	ASS	SIGN, FLAT SHEE	, DOUBLE FACED,	/ERHEAD SIGN § FOUNDATION	30C DIS	30C 3EE	30L	20 P	일이 기를	Υ, 2		1
NO.	NO.				(INCHES)	S	no	OUI	0 OU	<u>4</u>	POST	Sign	ORT	년	≝≱	ĀŽ	15 E	19 G	9.8	1 P S	유민	SPE		ĺ
						RT	GR	Σž	Σž	Y SUP	S	0.09	0 ≥			품요	O N	9.4	9.4	A N	A A A	OL 3		ĺ
						Δ		OUND	<u>Z</u>	MA,	SIGN	HE/	SUPP	\ \sigma		0	SIG	Al	\	NO SIC	0 0 0	HO		ĺ
) SR	GROUND	ų Į	0)	ÆR 7-16	SIGN		IGN,	GID	O M	N N	WO SO	ZEN	ÄE 0	SC		ĺ
										0		<u> </u>			o o	<u> </u>	₩.	<u> </u>	<u> </u>	_				4
R1	176	EAST 185TH ST		LT		07/NFP/PV	EACH	FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH 3	EACH	EACH 1	EACH	EACH	EACH	++	 1
R2	176	EAST 185TH ST		LT		07/NFP/PV											<u> </u>			2				ĺ
R3	176	EAST 185TH ST		LT		07/NFP/PV											1		1					1
R4	176	EAST 185TH ST		RT		07/NFP/PV														1				4
R5	176	EAST 185TH ST		RT		07/NFP/PV														1				 1
R6	177	EAST 185TH ST		LT		07/NFP/PV											1		1				+	
R7	177	EAST 185TH ST		LT		07/NFP/PV											•				1			1 6
R8	177	EAST 185TH ST		LT		07/NFP/PV														2				Ā
R9	177	EAST 185TH ST		RT		07/NFP/PV											1		1					Σ
R10	177	EAST 185TH ST		RT		07/NFP/PV											4		2				+	 Σ
R11	177	EAST 185TH ST		RT		07/NFP/PV											4		2					
R12	177	EAST 185TH ST		RT		07/NFP/PV											1		1					် လ
R13	178	EAST 185TH ST		LT		07/NFP/PV														1				ı m
R14 R15	178 178	EAST 185TH ST EAST 185TH ST		LT LT		07/NFP/PV 07/NFP/PV											1		1	2			 	 SUB-SUMMARY
KIS	170	EAST 1031FI ST		LI		UT/INFF/FV																		ဟ
R16	178	VILLAVIEW RD		RT		07/NFP/PV											2		1					(5
R17	178	EAST 185TH ST		LT		05/ENH/PV														2				SIGNING
R18	178	EAST 185TH ST		LT		05/ENH/PV												1	4	2				 =
R19 R20	178 178	EAST 185TH ST EAST 185TH ST		LT RT		05/ENH/PV 07/NFP/PV											1	1 1	1				+	 (5
1120	170	EXCT IDOTTION		101		07/14/17/1													'					%
R21	178	EAST 185TH ST		RT		07/NFP/PV														1				, 0,
R22	178	EAST 185TH ST		RT		07/NFP/PV															1			 4
R23 R24	178 178	VILLAVIEW RD VILLAVIEW RD		RT LT		07/NFP/PV 05/ENH/PV											1		1	2			-	 1
R25	179	EAST 185TH ST		LT		05/ENH/PV													'	3				1
																								1
₹ R26	179	MOZINA DR		RT		05/ENH/PV											2		1					1
E R27 6 R28	179 179	MOZINA DR EAST 185TH ST		LT LT		05/ENH/PV 05/ENH/PV											2		1	4			 	 1
R29	179	EAST 185TH ST		LT		05/ENH/PV														1				1
۲ R30	179	EAST 185TH ST		RT		05/ENH/PV														2				1
D04	470	EAOT 405TH 0T		DT		05/5111/01/														0	4			 1
R31 R32	179 179	EAST 185TH ST UNDERWOOD AVE		RT LT		05/ENH/PV 05/ENH/PV											1		1	3	1		+	 1
© R33	179	EAST 185TH ST		RT		05/ENH/PV													'	1				1
P. R34	179	EAST 185TH ST		RT		05/ENH/PV														2				1
တ္တ <u>R35</u>	180	EAST 185TH ST		LT		05/ENH/PV														3				
⊊ R36	180	EAST 185TH ST		LT		05/ENH/PV												1	1				-	
() R37	180	EAST 185TH ST		LT		05/ENH/PV												'	'	2				
9 R38	180	MARCELLA RD		RT		05/ENH/PV											2		1					STREET
R39	180	EAST 185TH ST		LT		05/ENH/PV														2				S
R40	180	EAST 185TH ST		RT		05/ENH/PV						1								2	-		 	
2 R41	180	GLENFIELD RD		LT		05/ENH/PV						+					2		1				+	ΙË
R42	180	EAST 185TH ST		RT		05/ENH/PV											-			1				185ТН
P R43	180	EAST 185TH ST		RT		05/ENH/PV														2				
R44	181	EAST 185TH ST		LT		05/ENH/PV 05/ENH/PV						1								3	-			CUY-EAST
7sp R45	181	EAST 185TH ST		LT		UD/ENH/PV				1		+								4	-		+	🐇
₽ R46	181	EAST 185TH ST		RT		05/ENH/PV						1								2	2			🖫
₩ R47	181	EAST 185TH ST		RT		05/ENH/PV														2				5
6 R48	181	EAST 185TH ST		RT		05/ENH/PV														2	1			O
R49 R50	181 181	NEFF RD NEFF RD		LT LT		05/ENH/PV 05/ENH/PV						1								2			+	 164
MA	101	14211110				30/EINI// V						1								<u> </u>				239
<u>်</u> ပ		SUBTOTALS THIS SH	HEET - CARRIED	TO SHEET 1	70												29	3	20	60	6			(23)

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							625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631	į	
								₹T,	, ⊤ 	TS		TYPE	POLE		Ш	ORT	TED	Œ	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	Ω.				ALCULAT SJK CHECKEI
						DE		PORT	K	- S	OR	, A F I	, PC		"	<u>ā</u>	EMOVAL OF GROUND MOUNT SIGN AND DISPOSAL	EMOVAL OF GROUND MOUNT SIGN AND REERECTION	LNU SOS,	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	Ì	CAL
						CODE	۵	UPF	SUPP	0.3	ECTO	OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	r ASSEMBLY, UNTED	<u> </u>	S, ST	sup.	MO	8E	MO	IOOI SAL		± S ± S (36'		
						NO O	ROE	D S ST	D S	Ž	1 1	AS	₩ Ω	뿚	<u>Ö</u>	<u>8</u> 6	P G	N N		E M	E M	⊒ ‡		
REF	SHEET	LOCATION	STATION	SIDE	CODE SIZE	PARTICIPATION	ð	MOUNTED SUI NO. 2 POST	MOUNTED S	OR.	REF	N S.L	ASS	SIGN, FLAT SHEE	, DOUBLE FACED, s	/ERHEAD SIGN (FOUNDATION	റ്റ	SOU	NO NA	20 15	20L KEE	ED Y, 2		
NO.	NO.	200/11011	o i / i i i	O.D.E	(INCHES)		GROUND	0UN 0.2	0.3	J dd	POST	SIGN	ORT,	3	≝₹	L EA	5 Q	R. G.	R	H H ON	유명	SPE ABL		
						Ä	GR	ΣŽ	Σž	SUP	<u>8</u>	DES	0 ≥	Ğ.	OUB	묶은	A Ni	P A	P. F.		A A	OL 9 SEN		
						₽		ROUND	<u> </u>	WAY	SIGN	1E.≱	SUPP	S	Ä		VAL SIG	AE	- SL		8 6	AS.		
								iRO	GROUND	Į Į	\ \ \ \ \ \ \	ERI -16	SIGN		<u>G</u>	GID	MO	ω W	MO	EM	EM S	SC		
										ō		<u> </u>			o	<u>~</u>	2	<u> </u>	<u> </u>					
DE1	101	EAST 185TH ST		RT		05/ENH/PV	EACH	FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH 1	EACH	EACH		
R51 R52	181 182	EAST 185TH ST		LT		05/ENH/PV														3				
R53	182	EAST 185TH ST		LT		05/ENH/PV											1		1					
R54	182	EAST 185TH ST		LT		05/ENH/PV														2				
R55	182	EAST 185TH ST		LT		05/ENH/PV														2				
R56	182	EAST 185TH ST		RT		05/ENH/PV														3				
R57	182	SHAWNEE AVE		LT		05/ENH/PV											2		1	3				~
R58	182	EAST 185TH ST		RT		05/ENH/PV														3				Ą
R59	182	EAST 185TH ST		RT		05/ENH/PV														3				Ì
R60	182	KEWANEE AVE		LT		05/ENH/PV					-						2		1					SUB-SUMMARY
R61	182	EAST 185TH ST		RT		05/ENH/PV														1				5
R62	183	EAST 185TH ST		LT		05/ENH/PV														2				Ŋ
R63	183	EDGERTON RD		RT		05/ENH/PV											2		1					ф.
R64	183	EAST 185TH ST		LT		05/ENH/PV														3				5
R65	183	EAST 185TH ST		LT		05/ENH/PV					1							1	1					S
R66	183	EAST 185TH ST		LT		05/ENH/PV														1				(5
R67	183	EAST 185TH ST		LT		05/ENH/PV														4				SIGNING
R68	183	EAST 185TH ST		LT		05/ENH/PV														1				=
R69	183	EAST 185TH ST		LT		05/ENH/PV											2		1	2				<u> </u>
R70	183	EAST 185TH ST		RT		05/ENH/PV														3				9
R71	183	CHICKASAW AVE		LT		05/ENH/PV														2				ဟ
R72	183	EAST 185TH ST		RT		05/ENH/PV														2				
R73	183	EAST 185TH ST		RT		05/ENH/PV														1	1			
R74 R75	183 184	EAST 185TH ST EAST 185TH ST		RT LT		05/ENH/PV 05/ENH/PV														1				
1075	104	LAGI IOSIII GI		LI		OS/EIVII/I V														'				
₹ R76	184	EAST 185TH ST		LT		05/ENH/PV											2		1					
R77	184	EAST PARK AVE		RT		05/ENH/PV											2		1					
o R78 R79	184 184	EAST 185TH ST EAST 185TH ST		LT LT		05/ENH/PV 05/ENH/PV											2		1	4				
R80	184	EAST 185TH ST		LT		05/ENH/PV													1	3				
Mar																								
R81	184	HARLAND AVE		RT		05/ENH/PV														2				
[™] R82	184	EAST 185TH ST		LT		05/ENH/PV														3				
R83 R84	184 184	EAST 185TH ST EAST 185TH ST		RT RT		05/ENH/PV 05/ENH/PV														4				
R85	184	CHEROKEE AVE		LT		05/ENH/PV											1		1					
T.																								
R86	184	EAST 185TH ST		RT		05/ENH/PV											3		1					بيز
9 R88	184 184	EAST 185TH ST EAST 185TH ST		RT RT		05/ENH/PV 05/ENH/PV											3		1	2				STREET
99 R89	184	EAST 185TH ST		RT		05/ENH/PV													1	3				Ĕ
R90	184	ARROWHEAD AVE		LT		05/ENH/PV											2		1					
dp																								王
02 R91	185	EAST 185TH ST		LT		05/ENH/PV					-									1				185TH
R92 R93	185 185	EAST 185TH ST EAST 185TH ST		LT LT		05/ENH/PV 05/ENH/PV					+									2		-		18
R94	185	SCHENELY AVE		RT		05/ENH/PV											2		1	_				Ë
R95	185	EAST 185TH ST		LT		05/ENH/PV														2				AS
Ĕ -		F107 (275)				05/5:																		ΨĮ
R96 R97	185 185	EAST 185TH ST EAST 185TH ST		LT RT		05/ENH/PV 05/ENH/PV											2		1	2		-		CUY-EAST
R97 R98	185	EAST 185TH ST		RT		05/ENH/PV													1	5				ರ
.¥ R99	185	EAST 185TH ST		RT		05/ENH/PV												1	1					
§ R100	185	EAST 185TH ST		RT		05/ENH/PV											2		1					165
<u>a</u>		CURTOTAL O TURO CU	IEEE CARRIER) TO CUEET 1	70						1						20		47	70	4			239
ت ــــ ــــــا		SUBTOTALS THIS SH	TEET - CARRIED	TO SHEET 1	10					1		1					30	2	17	76	1 1			

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							CODE	J UPPORT,	UPPORT,	NO. 3 POST	ECTOR	ORT, TYPE PER PLAN	BLY, POLE		, STREET	I SUPPORT	MOUNTED	MOUNTED	MOUNTED	IOUNTED	IOUNTED	IIT SIGN (36"	CALCULA SJK CHECKE GM
REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	PARTICIPATION	GROUND ROD GROUND ROD ND MOUNTED SI	UND MOUNTED S NO. 3 POST	WAY SUPPORT, N	POST REFL	OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	SUPPORT ASSEMBLY, MOUNTED	SIGN, FLAT SHE	DOUBLE FACED, NAME	VERHEAD SIGN 9	VAL OF GROUND MOUNT SIGN AND DISPOSAL	OVAL OF GROUND MOUN' SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	MOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTE SIGN AND REERECTION	SCHOOL SPEED LIMIT SI ASSEMBLY, 24" X 36"	
								GROUND	GROU	ONE W	SIGN	OVERHE TC-16.2	SIGN		SIGN, I	RIGID O	REMOV,	REM	~ ~	R		SCH	
R101	185	EAST 185TH ST		RT			05/ENH/PV	EACH FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH 2	EACH	EACH	4
R102	185	EAST 185TH ST		RT			05/ENH/PV													2			
R103 R104	186 186	EAST 185TH ST HILLER AVE		LT RT			05/ENH/PV 05/ENH/PV										1		1	4			-
R105	186	EAST 185TH ST		LT			05/ENH/PV										'		'	4			
R106	186	EAST 185TH ST		LT			05/ENH/PV										2		1				-
R100	186	EAST 185TH ST		RT			05/ENH/PV										2		!	3			፟፟፟ፚ
R108	186	MOHAWK AVE		LT			05/ENH/PV										3		1	_			⊿ ∢ ∣
R109	186	EAST 185TH ST		RT			05/ENH/PV													2			≥
S1	176	EAST 185TH ST	501+15	LT	W1-6	48 x 24	05/ENH/PV	25.0			1			8.0									OMM
					W1-6 R7-1	48 x 24 12 x 18	05/ENH/PV 05/ENH/PV	28.0			1			8.0 1.5									∣ ธา
S2	176	EAST 185TH ST	503+00	LT	W12-2	36 x 36	05/ENH/PV						1	9.0									 8
	470	EAOT 405TH OT	500.00		R7-1	12 x 18	05/ENH/PV	40.0					1	1.5									↓ ⊃
S3 S4	176 176	EAST 185TH ST EAST 185TH ST	503+96 501+12	LT RT	R1-2 R2-1	36 x 36 30 x 36	05/ENH/PV 05/ENH/PV	12.3			1		1	3.9 7.5									⊣ ທ ∣
S5	176	EAST 185TH ST	502+48	RT	R10-7	24 x 30	05/ENH/PV						1	5.0									<u> </u>
S6	176	EAST 185TH ST	502+90	RT	R3-H8ca	48 x 30	05/ENH/PV		26.0					10.0									Z
S6A	177	EAST 185TH ST	504+20	LT	W4-2	36 x 36	05/ENH/PV		13.5					9.0									NIN UNIN UNIN
S7	177	EAST 185TH ST	504+35	LT	R1-2	36 x 36	05/ENH/PV	12.3			1		4	10.0	1								վ <u>Ծ</u>
S8	177	EAST 185TH ST	504+73	LT	D3-1 D3-1	36 x 10 36 x 10	05/ENH/PV 05/ENH/PV						1 1	2.5 2.5	1 1								S
S8A	177	EAST 185TH ST	506+20	LT	W9-1	36 x 36	05/ENH/PV		13.5					9.0									
S9	177	EAST 185TH ST	504+45	RT	R3-H8ca	48 x 30	05/ENH/PV		26.0					10.0									-
S10	177	EAST 185TH ST	504+76	RT	R5-1	36 x 36	05/ENH/PV			13.5	1			9.0									
Ş					R6-1 R6-1	_	05/ENH/PV 05/ENH/PV			15.0	1			6.8									-
37 /					R3-H8ce	48 x 30	05/ENH/PV							10.0									
் S11	177	EAST 185TH ST	505+24	RT	R5-1		05/ENH/PV			13.5	1			9.0									
-22					R6-1	54 x 18 54 x 18	05/ENH/PV 05/ENH/PV			15.0	1			6.8									-
Σ					R3-H8ce	48 x 30	05/ENH/PV							10.0									
S11A S11B	177 177	EAST 185TH ST EB I-90 RAMP	505+60	RT RT	W4-3 W4-6	36 x 36 36 x 36	05/ENH/PV 05/ENH/PV		13.5 13.5					9.0									-
S11B S12	177	EAST 185TH ST	506+00	RT	W11-2	36 x 36	05/ENH/PV		14.5					9.0									
0.00	477	EAST 405TH 0T	500.00	5.7	W16-7P	24 x 12	05/ENH/PV							2.0									
S12A	177	EAST 185TH ST	506+30	RT	W11-2 W16-7P	36 x 36 24 x 12	05/ENH/PV 05/ENH/PV		14.5					9.0									╆
185																							╛┢╛
S13 9 S14	178 178	EAST 185TH ST EAST 185TH ST	508+93 509+25	LT LT	R7-203 R3-2		05/ENH/PV 05/ENH/PV		13.5			-	1	3.0 9.0				1			-		STREI
S15	178	EAST 185TH ST	511+29	LT	R2-1	30 x 36	05/ENH/PV		10.0				1	7.5									∃ IS
ms4	470	\(\(\) \(\) \(\) \(\) \(\) \(\) \(\)	00.00		R7-1	12 x 18	05/ENH/PV		40.0				1	1.5									
চ S16	178	VILLAVIEW RD	29+00	LT	R5-1 R1-2	30 x 30 36 x 36	05/ENH/PV 05/ENH/PV		13.0		1			6.3 3.9									185ТН
202																							36
S17 S18	178 178	EAST 185TH ST EAST 185TH ST	513+20 510+70	LT RT	R3-H8bh R3-H8b		05/ENH/PV 05/ENH/PV	26.0	13.0					7.5 10.0									
S19	178	EAST 185TH ST	511+80	RT	R3-H8b	48 x 30	05/ENH/PV	26.0						10.0									AST
S20	179	EAST 185TH ST	514+18	LT	R7-107		05/ENH/PV	13.5						1.5									 ₽
S21	179	EAST 185TH ST	514+18	LT	R7-1 R3-H8bh		05/ENH/PV 05/ENH/PV					1	1	1.5 7.5									CUY-E
) 6					R7-1	12 x 18	05/ENH/PV						1	1.5] ບັ
·호 S22	179	MOZINA DR	39+59	RT	W14-1 R1-1	30 x 30 36 x 36	05/ENH/PV 05/ENH/PV		13.5		1			6.3 9.0									166
» d					131-1	33 7 00	30, _111 //1 V				<u> </u>			0.0									$\begin{vmatrix} 100 \\ 239 \end{vmatrix}$
(i)		SUBTOTALS THIS SH	IEET - CARRIED	TO SHEET 1	170			143.	188.0	57.0	11		11	288.6	2		6		3	17			ן 🛫 ן

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									ORT,	٦T,	POST		TYPE	POLE		ET	ORT	TED	TED	TED	ı G	ED	7		SUK HECKE
							CODE		POG	PORT	က	, No	T, T ER P	, ⊢ ,	_	STRE	SUPP	EMOVAL OF GROUND MOUNT SIGN AND DISPOSAL	EMOVAL OF GROUND MOUNTED SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL		SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"		CAL
								8	SUF	SUP	Q	REFLECT	OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	PORT ASSEMBLY, MOUNTED	開	Ü, S	IS NO	/SO	D M	D M	MOI VSO	REMOVAL OF POLE MOUNT SIGN AND REERECTION	™X3		
REF	SHEET		07.47.01	0.00		SIZE	PARTICIPATION	D RO	MOUNTED (MOUNTED NO. 3 POST	ORT,	KEFL	SUP 17, A	SSE	FLAT SHEE	, DOUBLE FACED, :	OVERHEAD SIGN S FOUNDATION	NUC PSIC	DCN ERI	AND AND	OLE	OLE	:D LI		
NO.	NO.	LOCATION	STATION	SIDE	CODE	(INCHES)	CIP/	GROUND) 2 F	NUC.	<u> </u>	STF	N I GN	AT A OUN	FLA	H N	EAD ON	GR.	GR(GR(10 N	구 D R	PEE		
							KTI	GR(ΣΧ	ΣŽ	Y SUF	POST	AD S	POG M	SIGN,	anc	HE I	0 - NO	P A N	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	A A S	AL O	OL S SEN		
							<u>a</u>		GROUND	GROUND	WAY	SIGN	SHE/	SUPP	S	l Ď	0	NAI SIG	SIGN)VAI	NOV SIG	MOV SIGN	는 유 SS		
									GR(GR	ONE		OVEF 1C-16	SIGN		SIGN,	RIGID	EMC	EMC	FOS	R	REI	Š		
								EACH	FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		1
S23	179	MOZINA DR	39+59	LT	W14-1 R7-1		05/ENH/PV 05/ENH/PV			14.5					6.3 1.5										-
S24	179	EAST 185TH ST	515+41	LT	D3-1	36 x 10	05/ENH/PV							1	2.5	1									
					D3-1		05/ENH/PV							1	2.5	1									-
					R10-7 R7-1		05/ENH/PV 05/ENH/PV							1 1	5.0 1.5										1
S25	179	EAST 185TH ST	516+66	LT	R7-1	12 x 18	05/ENH/PV							1	1.5										↓ ≻
S26	179	EAST 185TH ST	513+99	RT	R2-1 R7-107		05/ENH/PV 05/ENH/PV							1 1	5.0 1.5										۲ ا
S27	179	EAST 185TH ST	515+10	RT	D3-1	36 x 10	05/ENH/PV				13.2				2.5	1									ĴÌ
					D3-1	36 x 10	05/ENH/PV								2.5	1	-								ĮΣ
S28	179	UNDERWOOD AVE	50+40	LT	R1-1		05/ENH/PV			13.5		1			9.0										-SUMMARY
S29 S30	179 179	EAST 185TH ST EAST 185TH ST	515+70 516+50	RT RT	R7-203 D9-2		05/ENH/PV 05/ENH/PV			16.8				1	3.0 4.0										၂ ကို
330	179	EAST 165TH ST	310+30	KI	M6-3		05/ENH/PV			10.0					2.2										SUB
					R7-5		05/ENH/PV								1.5										ุ่ เร
					R7-107	12 x 18	05/ENH/PV								1.5										4
S31	180	EAST 185TH ST	517+86	LT	R7-203		05/ENH/PV							1	3.0										ĴΖ
S32	180	EAST 185TH ST	519+13	LT	R7-1 R2-1		05/ENH/PV 05/ENH/PV							1	1.5 5.0										SIGNING
					R7-107	12 x 18	05/ENH/PV							1	1.5										<u></u> 5
S32A	180	EAST 185TH ST	519+90	LT	W11-2 W16-7P		05/ENH/PV 05/ENH/PV			14.5					9.0										∣ ଅ
S33	180	MARCELLA RD	69+65	RT	R1-1		05/ENH/PV			14.5		1			6.3										_
S34	180	EAST 185TH ST	520+58	LT	R7-1 D3-1		05/ENH/PV 05/ENH/PV							1	1.5 2.5	1									4
004	100	LAGI 103111101	320130	LI	D3-1		05/ENH/PV							1	2.5	1									_
S35 ≥	180	EAST 185TH ST	521+46	LT	W11-2 W16-9P		05/ENH/PV 05/ENH/PV							1	9.0										4
37 /					R7-1		05/ENH/PV							1	1.5										
් S36	180	EAST 185TH ST	517+57	RT	SPECIAL		05/ENH/PV			16.5					9.0										-
-22					R7-1 R7-5		05/ENH/PV 05/ENH/PV								1.5 1.5										1
S37	180	EAST 185TH ST	517+81	RT	D3-1		05/ENH/PV							1	2.5	1									1
S38	180	GLENFIELD	60+40	LT	D3-1 R1-1		05/ENH/PV 05/ENH/PV			13.5		1		1	9.0	1									1
6×p	100	EAGT (05T): 0T	F10.00		1844.5										2.2]
S39	180	EAST 185TH ST	518+82	LT	W11-2 W16-9P		05/ENH/PV 05/ENH/PV							1 1	9.0										1
5_T5					R7-5	12 x 18	05/ENH/PV							1	1.5										╁┰
S40	180	EAST 185TH ST	519+70	RT	R7-1		05/ENH/PV 05/ENH/PV		13.5					1	1.5 1.5	-	-								H
/900					R7-5	12 x 18	05/ENH/PV								1.5										STRE
\$40A	180	EAST 185TH ST	519+90	RT	W11-2 W16-7P		05/ENH/PV 05/ENH/PV			14.5					9.0										၂ ဟ
\$ S41	180	EAST 185TH ST	521+59	RT	R2-1		05/ENH/PV							1	5.0										1 돈
020					R7-1	12 x 18	05/ENH/PV							1	1.5										185TH
S42	181	EAST 185TH ST	523+64	LT	R7-1		05/ENH/PV							1	1.5										
21					SPECIAL M6.1		05/ENH/PV 05/ENH/PV							1	5.0 2.2										ST
S43	181	EAST 185TH ST	525+30	LT	M6-1 R3-H8bh		05/ENH/PV 05/ENH/PV							1 1	7.5										¥
mos	10:		500.50	5.7	R7-1	12 x 18	05/ENH/PV			44.5				1	1.5										CUY-EA
9 S44	181	EAST 185TH ST	522+78	RT	R3-H8bh R7-1		05/ENH/PV 05/ENH/PV			14.5					7.5 1.5	-									ქ შ
S45	181	EAST 185TH ST	523+40	RT	R3-H8bh	36 x 30	05/ENH/PV			13.0					7.5										
S46	181	NEFF RD	80+92	LT	R10-6 R7-1		05/ENH/PV 05/ENH/PV							1	6.0 1.5		-								167
/ii	1	SUBTOTALS THIS SH	IEET - CARRIED	TO SHEET 1					13.5	145.8	13.2	3		32	203.0	8									239

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185TH STREET CUY-EAST

								625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631			
									ORT,	λΤ,	POST		TYPE	POLE		Щ	ORT	TED	TED	TED	Ω		7			CULAT SJK HECKE
							CODE		90	PORT	3 PC	, R	T, T	, g		STRE	Δ.	EMOVAL OF GROUND MOUNT SIGN AND DISPOSAL	EMOVAL OF GROUND MOUNTED SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL		SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"			CAL
							00	2	B	SUP	NO	ECT	POR S PE	MBL	EET	D, S	N SUP	OSA	CTI	DIS O	MOL	MOL	× 36 × 36			
REF	SHEET	т				SIZE	PARTICIPATION	~ :	MOUNTED (MOUNTED NO. 3 POST	ORT,	REFLECT	OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	ORT ASSEMBLY, MOUNTED	FLAT SHEE	, DOUBLE FACED, :	OVERHEAD SIGN S FOUNDATION	JN OG SIGN	I S S S	JA DO) ISP	REMOVAL OF POLE MOUNT SIGN AND REERECTION	D LII			
NO.	NO.	LOCATION	STATION	SIDE	CODE	(INCHES)	I A	GROUND	N 2 -	UN 3 P	Ğ	T.	0 SN S	T AS	Ę	H F.	A SAD	GRC PD	GRC	GRC RT/	P P D D	F PC	PEE!			
							X	380	N N	ON ON	SUF	POST) SIO	MO M	SIGN, F	UBL	I III	OF O	OF O	9 PO C	N A O	ANC	S SE			
							PA		GROUND	GROUND	WAY	SIGN	 1EAI 22, D	SUPP	SIS	8	OVE _	AL SIGI	8 A B	SUF AL	SIGI	GN A	400 ASS			
									08/0	ROI	ONE V	S S	(ER)	SIGNS		SIGN,	RIGID	MO M	NO S	OST	SEM!	S S	SCI			
												FAOU			0.5			2	<u>~</u>	<u> </u>			FAOU			4
S47	181	NEFF RD	80+32	LT	SPECIAL	36 x 36	05/ENH/PV	EACH	FT	FT	FT	EACH	EACH	EACH 1	9.0	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		+	1
S48	181	EAST 185TH ST	525+70	RT	SPECIAL	36 x 36	05/ENH/PV							1	9.0											1
S49	182	EAST 185TH ST	526+68	LT	R3-H8bh R7-107		05/ENH/PV 05/ENH/PV							1	7.5 1.5											-
S50	182	EAST 185TH ST	528+38	LT	R7-1		05/ENH/PV		13.5					'	1.5										+	1
			/-		R7-5		05/ENH/PV								1.5] .
S51	182	EAST 185TH ST	529+43	LT	R7-5 R7-1		05/ENH/PV 05/ENH/PV		13.5						1.5 1.5										+	∤ ≿
																										╛┪
S52	182	EAST 185TH ST	530+14	LT	W11-2 W16-7P		05/ENH/PV 05/ENH/PV							1 1	9.0											-SUMMARY
S53	182	EAST 185TH ST	530+93	LT	R7-1	12 x 18	05/ENH/PV		13.5					'	1.5											Σ
0-:	100		500.00		R7-5	12 x 18	05/ENH/PV								1.5											ٽ آ
S54	182	EAST 185TH ST	526+92	RT	D3-1 D3-1		05/ENH/PV 05/ENH/PV							1 1	2.5	1 1									+	ქ <u>წ</u>
					R7-1		05/ENH/PV							1	1.5	·										SUB
S55	182	SHAWNEE AVE	90+44	LT	R1-1	30 x 30	05/ENH/PV			14.5		1			6.3											⊣ ნ
333	102	SHAWNEE AVE	30144	LI	R7-1		05/ENH/PV			14.5					1.5										+	1 (5
S55A	182	EAST 185TH ST	527+87	RT	W11-2		05/ENH/PV			14.5					9.0											SIGNING
S56	182	EAST 185TH ST	528+44	RT	W16-9P R7-203		05/ENH/PV 05/ENH/PV							1	3.0										+	┨ Т
- 555	102	2,101 10011101	020111	101	R7-5		05/ENH/PV							1	1.5											ქ ট
057	400	EACT 405TH CT	500.05	DT	R7-1		05/ENH/PV		40.5					1	1.5											∃ ເວ
S57	182	EAST 185TH ST	529+25	RT	R7-1 R7-5		05/ENH/PV 05/ENH/PV		13.5						1.5 1.5										+	-
																										1
S58	182	EAST 185TH ST	529+48	RT	D3-1 D3-1		05/ENH/PV 05/ENH/PV							1	2.5	1 1									+	-
S59	182	KEWANEE AVE	100+40	LT	R1-1	30 x 30	05/ENH/PV			14.5		1			6.3	·										1
₹ S59A	182	EAST 185TH ST	530+14	RT	R7-1 W11-2		05/ENH/PV 05/ENH/PV			14.5					9.0											4
S 229A	102	EAST TOSTER ST	550+14	KI	W16-7P		05/ENH/PV			14.5					2.0										+	1
S60	182	EAST 185TH ST	530+34	RT	R7-5		05/ENH/PV		13.5						1.5											1
<u> </u>					R7-1	12 x 18	05/ENH/PV								1.5										+	-
∑ S61	183	EAST 185TH ST	531+18	LT	R7-5		05/ENH/PV		13.5						1.5											1
2 2 2	100	EAST 405TH OT	F24 : 40	1.7	R7-1		05/ENH/PV							4	1.5	1										4
\$62 -	183	EAST 185TH ST	531+40	LT	D3-1 D3-1		05/ENH/PV 05/ENH/PV							1 1	2.5	1 1									+	1
000					W11-2	36 x 36	05/ENH/PV							1	9											1
S63	183	EDGERTON RD	109+53	RT	W16-9P R1-1		05/ENH/PV 05/ENH/PV			14.5		1		1	6.3										+	<u> </u>
5	.50		100 00		R7-1		05/ENH/PV					·			1.5] 🗒
909 S64	183	EAST 185TH ST	532+60	LT	R7-1	12 x 18	05/ENH/PV		13.5						1.5											STRE
304	103	EAST 165TH ST	332+00	LI	R7-1		05/ENH/PV		13.3						1.5										+	
S65	183	EAST 185TH ST	533+70	LT	R7-5		05/ENH/PV		13.5						1.5											⊥ Έ
S66 S66	183	EAST 185TH ST	534+00	LT	R7-107 D3-1		05/ENH/PV 05/ENH/PV							1	1.5 2.5	1									+	185TH
P P					D3-1	36 x 10	05/ENH/PV							1	2.5	1										
S67 S68	183 183	EAST 185TH ST EAST 185TH ST	535+28 531+73	LT RT	R7-5 R7-1	-	05/ENH/PV 05/ENH/PV		12.0 13.5						1.5 1.5											ST
Sp 300	103	LASTISSINSI	331773	IXI	R7-1		05/ENH/PV		10.0						1.5										+	┧
СОП	100	EAST (057): 05	504.00			00 10	05/51/1/51				40.5															↓ _
§ S69	183	EAST 185TH ST	531+93	RT	D3-1 D3-1		05/ENH/PV 05/ENH/PV				13.2				2.5	1 1									+	CUY-EA
Ş S70	183	CHICKASAW AVE	120+38	LT	R1-1	30 x 30	05/ENH/PV			14.5		1			6.3											1
N W O					R7-1	12 x 18	05/ENH/PV								1.5										+	168
<u>الله الله الله الله الله الله الله الله</u>	<u> </u>	SUBTOTALS THIS S	HEET - CARRIED	TO SHEET	170	I		1	133.5	87.0	13.2	4		20	163.2	10		1								239

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185TH STREET | CUY-EAST | (188 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539 | 539

								625	630	630	630	630	630	630	630	630	630	630	630	630	630	630	631	D LED
REF NO.	SHEET NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	PARTICIPATION CODE	HOAB GROUND ROD	GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	T ONE WAY SUPPORT, NO. 3 POST	SIGN POST REFLECTOR	OVERHEAD SIGN SUPPORT, TYPE T TC-16.22, DESIGN 7, AS PER PLAN	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	49 SIGN, FLAT SHEET	SIGN, DOUBLE FACED, STREET NAME	RIGID OVERHEAD SIGN SUPPORT	REMOVAL OF GROUND MOUNTED	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	CALCULA' SJK
S71	183	EAST 185TH ST	532+69	RT	R7-5	12 x 18	05/ENH/PV	27.011	13.5			LAGIT	27(011	LAGIT	1.5	L/(OI1	LAGIT	L/(OI1	LACIT	LACIT	LACIT	LAGIT	LACIT	
S72	183	EAST 185TH ST	533+68	RT	R7-1 R7-107	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		13.5						1.5 1.5									
072	103	LAST 10311101	333100	1(1	R7-5	12 x 18	05/ENH/PV		13.3						1.5									
S73	183	EAST 185TH ST	534+98	RT	D3-1	36 x 10	05/ENH/PV							1	2.5	1								
					D3-1	36 x 10	05/ENH/PV							1	2.5	1								\dashv \searrow
S74	184	EAST 185TH ST	536+26	LT	R7-5	12 x 18	05/ENH/PV		13.5						1.5									一 何
S75	184	EAST PARK AVE	149+58	RT	R7-1 R1-1	12 x 18 30 x 30	05/ENH/PV 05/ENH/PV			14.5		1			1.5 6.3									≤
070	101			101	R7-1	12 x 18	05/ENH/PV			11.0		'			1.5									_ ≥
S76	184	EAST 185TH ST	537+48	LT	D3-1 D3-1	36 x 10 36 x 10	05/ENH/PV 05/ENH/PV							1	2.5 2.5	1 1								 ₹
S77	184	EAST 185TH ST	537+67	LT	R7-1	12 x 18	05/ENH/PV 05/ENH/PV		13.5					<u> </u>	1.5									SUB-SUMMARY
070	404	EAST 405TH 0T	500.44		R7-5	12 x 18	05/ENH/PV		10.5						1.5									_ _
S78	184	EAST 185TH ST	538+44	LT	R7-5 R7-1	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		13.5						1.5 1.5									— ك
S79	184	EAST 185TH ST	538+53	LT	D3-1	36 x 10	05/ENH/PV							1	2.5	1								
S80	184	HARLAND AVE	169+60	LT	D3-1 R1-1	36 x 10 30 x 30	05/ENH/PV 05/ENH/PV							1	2.5 6.3	1								— ⊈
	101	THE COUNTY OF TH	100.00		R7-1	12 x 18	05/ENH/PV							1	1.5									
S80A	184	EAST 185TH ST	539+19	LT	W11-2	36 x 36	05/ENH/PV			14.5					9.0	-								SIGNING
3007	104	LAGT 10311101	339119	L!	W16-7P	24 x 12	05/ENH/PV			14.5					2.0									
S81	184	EAST 185TH ST	539+85	LT	R7-1 R7-5	12 x 18	05/ENH/PV							1	1.5									
S82	184	EAST 185TH ST	535+92	RT	R7-5	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV							1 1	1.5 1.5									
S83	184	EAST 185TH ST	536+70	RT	R7-1	12 x 18	05/ENH/PV		13.5						1.5									
S84	184	EAST 185TH ST	536+92	RT	R7-5 D3-1	12 x 18 36 x 10	05/ENH/PV 05/ENH/PV							1	1.5 2.5	1								
A					D3-1		05/ENH/PV							1	2.5	1								
2:6 S85	184	CHEROKEE AVE	160+44	RT	R1-1	30 x 30	05/ENH/PV			13.0		1			6.3									
S86	184	EAST 185TH ST	537+60	RT	R7-5	12 x 18	05/ENH/PV		15.0						1.5									
<u></u>					SPECIAL R7-1		05/ENH/PV 05/ENH/PV								1.5									
∑ S86A	184	EAST 185TH ST	537+83	RT	W11-2	36 x 36	05/ENH/PV			14.5					9.0									
7 0 007	104	EACT 40ETH OT	E20+00	DT	W16-9P	+	05/ENH/PV		15.0						2.0									
\$87 - S87	184	EAST 185TH ST	538+99	RT	R7-1 R7-5	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		15.0						1.5 1.5									
200					SPECIAL		05/ENH/PV								1.5									
S87A	184	EAST 185TH ST	539+19	RT	W11-2	36 x 36	05/ENH/PV			14.5					9.0									— <u>∏</u>
5					W16-7P	24 x 12	05/ENH/PV								2.0									
\$88 \$20e	184	EAST 185TH ST	539+44	RT	D3-1 D3-1		05/ENH/PV 05/ENH/PV			-				1 1	2.5 2.5	1 1								STREET
S89 S89	184	ARROWHEAD AVE	180+40	LT	R1-1	30 x 30	05/ENH/PV			14.5		1		1	6.3	<u> </u>								
p d					R7-1	12 x 18	05/ENH/PV								1.5									₹
S89A	185	EAST 185TH ST	540+25	LT	W11-2	36 x 36	05/ENH/PV			14.5					9.0									185TH
2	105		F10.01		W16-9P	24 x 12	05/ENH/PV								2.0									
S90 S90A	185 185	EAST 185TH ST EAST 185TH ST	540+64 540+90	LT LT	R7-5 S5-3	12 x 18 24 x 30	05/ENH/PV 05/ENH/PV			13.0				1	1.5 5.0									CUY-EAST
S91	185	EAST 185TH ST	541+40	LT	R7-5	12 x 18	05/ENH/PV		12.0						1.5									<u> </u>
9 S92	185	EAST 185TH ST	541+73	LT	D3-1	36 x 10	05/ENH/PV							1	2.5	1								 ≿
	100				D3-1		05/ENH/PV							1	2.5	1								ರ
.₹ S93	185	SCHENELEY AVE SCHENELEY AVE	189+60 189+42	RT	R7-1 R12-3	12 x 18	05/ENH/PV 05/ENH/PV		12	12 5					1.5									
S93A	185	SUPENELEY AVE	109742	LT	17.12-3	24 x 36	US/EINH/PV			13.5					6.0									 169
íi 🔃		SUBTOTALS THIS SH	IEET - CARRIED	TO SHEET 1	70				135.0	126.5		3		18	150.7	12								239

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									_		_		TYPE	POLE		ь	R	Э						SJK SHECKED
i							DE		PORT	MOUNTED SUPPORT NO. 3 POST	POS.	OR	Ç.X	, P.		Ä	OVERHEAD SIGN SUPPO FOUNDATION	EMOVAL OF GROUND MOUNT SIGN AND DISPOSAL	KEMOVAL OF GROUND MOUNTED SIGN AND REERECTION	EMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SCHOOL SPEED LIMIT SIGN ASSEMBLY, 24" X 36"	CALC
							CODE		MOUNTED SUPPO NO. 2 POST	l Pl	0.3		OVERHEAD SIGN SUPPORT, TC-16.22, DESIGN 7, AS PER	SUPPORT ASSEMBLY, MOUNTED	ե	ST	SUF	MOI	oH oH oH	MOI	SAL	5E	T S	
								ROD	D SI	ls C	N.	E	PP(뿚	Ü	N 0	PÖ			ΣÖ	N EC	<u>₹</u>	
REF	SHEET	LOCATION	STATION	SIDE	CODE	SIZE	PARTICIPATION	Ğ	l E 8	l Eg	ORT,	REFLECT	SU 17,	SS	FLAT SHEET	, DOUBLE FACED, :	S SI			5 N	OLE	OLE EFF	ED I	
NO.	NO.	LOCATION	STATION	SIDE	CODE	(INCHES)		GROUND	N 2.	N €	PPC	TS TS	N 5	T×	<u>7</u>	<u>#</u> ¥	BE	R _. G _.	GR D R	GR	모모	F P	B.Y.	
							T X	380	N N N N N N N N N N N N N N N N N N N	¥S	SUPP	POST) SI	Å R M	SIGN,	UBI	품이	P A	ANI ANI	유	0 Z	L O A	S M	
							PAF		<u>Q</u>	<u>R</u>	WAY	SIGN	EAC 2, C	<u>P</u>	Sign	8	N N	Je P	A S	SUF	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	× 0	000	
									GROUND	GROUND	≥	<u>š</u>	RH 16.2	S Z		SIGN,	0 0	§°	_ 50 <u>s</u>	l oo⊤	I WII	NE SI	L Sign	
									B	<u>p</u>	ONE			SIGN		SIC	RIGID	Ä	\ EN	∰ C	22	22	0,	
								EACH	FT	FT	FT	EACH	EACH	EACH	SF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
S93B	185	EAST 185TH ST	542+62	LT	S1-1	36 x 36	05/ENH/PV			15.5					9.0									
					S4-3P	24 x 8	05/ENH/PV								1.3									_
504	105	FACT 105TH CT	F42+22	1.7	W16-7P	24 x 12	05/ENH/PV		12.5						2									_
S94	185	EAST 185TH ST	543+22	LT	R7-107 R7-5	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		13.5						1.5 1.5									-
S95	185	EAST 185TH ST	543+52	LT	R7-203	18 x 24	05/ENH/PV							1	3.0									-
	100		1		1																			
S95A	185	EAST 185TH ST	540+00	RT	S1-1	36 x 36	05/ENH/PV	1		15.5					9.0] ′ແ
					S4-3P	24 x 8	05/ENH/PV								1.3									⊿ ₹
000	405	EAST ASSTURE	540.00	DT	W16-9P	24 x 12	05/ENH/PV		40.5						2.0									∃ Σ
S96	185	EAST 185TH ST	540+22	RT	R7-5 R7-1	12 x 18	05/ENH/PV 05/ENH/PV		13.5						1.5 1.5									∃ ∑
					107-1	12 X 10	OO/LIVII/I V								1.0									∃ 5
S97	185	EAST 185TH ST	540+97	RT	S5-H1		05/ENH/PV	,															1	SUB-SUMMARY
S98	185	EAST 185TH ST	541+44	RT	R7-107	12 x 18	05/ENH/PV		13.5						1.5									□ 📥
					R7-5	12 x 18	05/ENH/PV								1.5									∃ 5
S99	185	EAST 185TH ST	541+69	RT	S1-1 S4-3P	36 x 36 24 x 8	05/ENH/PV 05/ENH/PV			15.5					9.0									⊣ ഗ
					W16-7P	24 x 12	05/ENH/PV								2									−
S100	185	EAST 185TH ST	541+92	RT	D3-1	36 x 10	05/ENH/PV							1	2.5	1								∣
					D3-1	36 x 10	05/ENH/PV	+						1	2.5	1] ≦
S101	185	EAST 185TH ST	543+45	RT	R7-203	18 x 24	05/ENH/PV							1	3.0									Z
0400	400	EAST ASSTURE	544.05	1.7	R7-5	12 x 18	05/ENH/PV		40.5					1	1.5									SIGNING
S102	186	EAST 185TH ST	544+25	LT	R7-5 R7-1	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		13.5					-	1.5 1.5									⊣ ഗ
					107-1	12 × 10	03/EINII/I V								1.5									
S103	186	EAST 185TH ST	544+50	LT	S5-H1		05/ENH/PV	1					1				1						1	
S104	186	HILLER AVE	219+53	RT	R1-1	30 x 30	05/ENH/PV			13.0		1			6.3									
S105	186	EAST 185TH ST	545+54	LT	D3-1	36 x 10	05/ENH/PV							1	2.5	1								_
S106	186	EAST 185TH ST	545+81	LT	D3-1 S1-1	36 x 10 36 x 36	05/ENH/PV 05/ENH/PV			18.5				1	2.5 9	1								-
0100	100	2,0110011101	040.01		S4-3P	24 x 8	05/ENH/PV			10.0					1.3									_
					W16-9P	24 x 12	05/ENH/PV	,							2.0									
					R7-1	12 x 18	05/ENH/PV								1.5									
0407	400	EAST ASSTURE	055.04	DT	R7-5	12 x 18	05/ENH/PV		40.5						1.5									
S107	186	EAST 185TH ST	655+24	RT	R7-1 R7-5	12 x 18 12 x 18	05/ENH/PV 05/ENH/PV		13.5						1.5 1.5									_
					107-5	12 X 10	03/LIVII/I V								1.0									-
S108	186	EAST 185TH ST	544+50	RT	D3-1	36 x 10	05/ENH/PV	,						1	2.5	1								
					D3-1	36 x 10	05/ENH/PV	'						1	2.5	1								
					S5-3	24 x 30	05/ENH/PV	'						1	5.0									
S108A	186	MOHAWK AVE	210+45	RT	R12-3	24 x 36	05/ENH/PV	,		13.5					6.0									- I
S10071	186	MOHAWK AVE	210+40	LT	R1-1	30 x 30	05/ENH/PV			14.5		1			6.3									STREE
					R7-1	12 x 18	05/ENH/PV								1.5									<u> ፫</u>
S110	186	EAST 185TH ST	545+29	RT	R7-5	12 x 18	05/ENH/PV		13.5						1.5									S1
0444	100	5407 4057U.07	545.75	D.T.	R7-1	12 x 18	05/ENH/PV			40.0					1.5									
S111	186	EAST 185TH ST	545+75	RT	D9-2 M6-3	24 x 24 21 x 15	05/ENH/PV 05/ENH/PV	+		13.8					4.0 2.2									⊣ <u>⊨</u>
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			OTALS SHEET 16		-	-			13.5	145.8	13.2	3		32	203.0	8								
			OTALS SHEET 16						133.5	87.0	13.2	4		20	163.2	10								1/170
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		TOTALS CARRIE	וט GENEKAL	. JUNINART			<u> </u>	1 1	JUU. I	1 007.1	03.4		1 1	l al	J25.5	J 30	1	00	l ü	40	100	1		

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GROUNDING AND BONDING

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THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE TC SERIES OF STANDARD CONSTRUCTION DRAWINGS ARE MODIFIED AS FOLLOWS:

- ALL METALLIC PARTS CONTAINING ELECTRICAL CONDUCTORS SHALL BE PERMANENTLY JOINED TO FORM AN EFFECTIVE GROUND FAULT CURRENT PATH BACK TO THE GROUNDED CONDUCTOR IN THE POWER SERVICE DISCONNECT SWITCH.
- PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN METALLIC CONDUITS (725.04) IN ADDITION TO THE CONDUCTORS SPECIFIED AND BOND THE CONDUIT TO THIS GROUNDING CONDUCTOR.
- WHEN AN EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN PLASTIC CONDUIT (725.05), THE INSTALLATION SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO THE CONDUCTORS SPECIFIED.
- METALLIC CONDUIT CARRYING THE LOOP WIRES FROM IN THE PAVEMENT TO THE PULL BOX SPLICE LOCATION WILL ONLY BE BONDED AT THE PULL BOX END, AND WILL NOT CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
- IF MULTIPLE CONDUIT RUNS BEGIN AND END AT THE SAME POINTS, ONLY ONE EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED.
- IF AN EQUIPMENT GROUNDING CONDUCTOR IS NEEDED IN CONDUIT BETWEEN SIGNALIZED INTERSECTIONS FOR UNDERGROUND INTERCONNECT CABLE, THE GROUNDING SYSTEM FOR EACH SIGNALIZED INTERSECTION WILL BE SEPARATED ABOUT MIDWAY BETWEEN THE INTERSECTIONS.
- F. THE MESSENGER WIRE AT SIGNALIZED INTERSECTIONS WILL BE USED AS THE CONDUCTIVE PATH FROM CORNER TO CORNER IF CONDUIT IS NOT PROVIDED UNDER THE ROADWAY. WHEN CONDUIT CONNECTS THE CORNERS OF AN INTERSECTIONS, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED IN THE CONDUIT.

2. CONDUITS

- THE 725.04 CONDUIT SHALL HAVE GROUNDING BISHINGS INSTALLED AT ALL TERMINATION POINTS. THE BUSHING MATERIAL SHALL BE COMPATIBLE WITH GALVANIZED STEEL CONDUIT AND THE GROUNDING LUG MATERIAL SHALL BE COMPATIBLE FOR USE WITH COPPER WIRE. THREADED OR COMPRESSION TYPE BUSHINGS MAY BE USED.
- THE 725.05 CONDUIT SHALL HAVE THE INSIDE AND OUTSIDE DIAMETERS OF THE CONDUIT DEBURRED AT ALL TERMINATION POINTS.
- BOTH ENDS OF METALLIC CONDUIT SHALL BE BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- METALLIC CONDUIT MAY BE BONDED TO METALLIC BOXES THROUGH THE USE OF CONDUIT FITTINGS UL APPROVED FOR THIS TYPE OF CONNECTION, WITH THE BOX BONDED TO THE EQUIPMENT GROUNDING CONDUCTOR.
- E. ALL CONDUIT SHALL BE CAPPED WITH THE DUCT SEALED.
- 3. WIRE FOR GROUNDING AND BONDING
- USE INSULATED, COPPER WIRE FOR THE EQUIPMENT GROUNDING CONDUCTOR. BONDING JUMPERS IN BOXES AND ENCLOSURES MAY BE BARE OR INSULATED COPPER WIRE. WIRE SIZE SHALL BE AS FOLLOWS:
- USE 4 AWG BETWEEN THE POWER SERVICE AND SUPPORTS, POLES, PEDESTALS, CONTROLLER OR FLASHER CABINETS.
- USE A MINIMUM 8 AWG BETWEEN LOOP DETECTOR PULL BOXES AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.1 ABOVE.
- III. USE A MINIMUM OF 8 AWG BETWEEN THE "PREPARE TO STOP WHEN FLASHING" INSTALLATION (INCLUDING SUPPORT) AND THE FIRST CONDUIT THAT REQUIRES A LARGER SIZE AS SPECIFIED IN 3.A.1. ABOVE.

GROUNDING AND BONDING (CONTINUED)

- IV. THE INSULATION SHALL BE GREEN OR GREEN WITH YELLOW STRIPES(S). FOR 4 AWG OR LARGER. INSULATION MAY ALSO BE BLACK WITH GREEN TAPE/LABELS INSTALLED AT ALL ACCESS POINTS.
- B. IN A HIGHWAY LIGHTING SYSTEM, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE THE SAME WIRE AS THE DUCT CABLE OR DISTRIBUTION CABLE CIRCUIT CONDUCTORS. WITH THE MINIMUM CONDUCTOR SIZE OF 4 AWG. BONDING JUMPERS WILL BE MINIMUM SIZE 4 AWG.
- 4. GROUNDED ROD (2-6' APART)
- A. A ¾ INCH SCHEDULE 40 PVC CONDUIT WILL BE USED IN FOUNDATIONS AND CONCRETE WALLS FOR THE GROUNDING CONDUCTOR (GROUND WIRE) RACEWAY TO THE GROUND ROD. SHOULD METALLIC CONDUIT BE USED, BOTH ENDS OF THE CONDUIT SHALL BE BONDED TO THE GROUNDING CONDUCTOR.
- THE TYPICAL GROUNDING CONDUCTOR (GROUND WIRE) SHALL BE 4 AWG INSULATED, COPPER.
- THE GREEN CONDUCTOR IN SIGNAL CABLES (CONDUCTOR #4) SHALL NOT BE USED TO SUPPLE POWER TO A SIGNAL INDICATION. IT WILL BE CONNECTED TO THE SIGNAL BODY AS AN EQUIPMENT GROUND IN ALUMINUM HEADS AND IT WILL BE UNUSED IN PLASTIC HEADS. UNUSED CONDUCTORS SHALL BE GROUNDED IN THE CABINET. TYPICAL USE OF CONDUCTORS IS AS FOLLOWS:

COND. NO	. COLOR BLACK	VEHICLE SIGNAL GREEN BALL	PED. SIGNAL #1 WALK
2	WHITE	AC NEUTRAL	AC NEUTRAL
3	RED	RED BALL	#1 DW/FDW
4	GREEN	EQUIP. GROUND	EQUIP. GROUND
5	ORANGE	YELLOW BALL	#2 DW/FDW
6	BLUE	GREEN ARROW	#2 WALK
7	<i>WHITE/</i>	YELLOW ARROW	NOT USED
	BLACK STRIP	Ξ	

- 6. POWER SERVICE AND DISCONNECT SWITCH
- AT THE POWER SERVICE LOCATION, THE GROUNDING CONDUCTOR (GROUND WIRE) FROM THE DISCONNECT SWITCH NEUTRAL (AC-) BAR TO THE GROUND ROD SHALL BE A CONTINUOUS, UNSPLICED CONDUCTOR. IF SPLICED, IT SHAL BE AN EXOTHERMIC WELD BUTT SPLICE.
- THE SERVICE NEUTRAL (AC-) SHALL ONLY BE CONNECTED TO GROUND AT THE PRIMARY POWER SERVICE DISCONNECT
- NEMA CONTROLLER CABINETS: IF A POWER SERVICE DISCONNECT SWITCH IS LOCATED BEFORE THE CONTROLLER CABINET, THE NEUTRAL (AC-) AND THE GROUNDING BARS IN THE CONTROLLER CABINET SHALL NOT BE CONNECTED TOGETHER AS SHOWN IN NEMA TS-2. FIGURE 5-4.
- IF SECONDARY DISCONNECT SWITCHES ARE CONNECTED AFTER THE PRIMARY DISCONNECT SWITCH, THE NEUTRAL (AC-) SHALL ONLY BE GROUNDED AT THE PRIMARY SWITCH, EQUIPMENT GROUNDING CONDUCTORS SHALL BE BROUGHT TO THE PRIMARY SWITCH. BUT SHALL BE GROUNDED AT BOTH SECONDARY AND PRIMARY SWITCHES.
- PAYMENT ALL MATERIALS AND WORK REQUIRED TO COMPLETE THE EFFECTIVE GROUND FAULT CURRENT PATH SYSTEM ARE INCIDENTAL TO THE CONDUCTORS INSTALLED BY CONTRACT.

ITEM 632 - VEHICULAR SIGNAL HEAD (LED), (BY SECTION), 12' LENS, 1-WAY, POLYCARBONATE, AS PER PLAN

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

- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF INJECTION MOLDED, UV STABILIZED, POLYCARBONATE PLASTIC AND MEET ITE SPECIFICATIONS.
- 2. PLASTIC LENSES SHALL BE USED.
- PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
- TRAFFIC SIGNAL MUST BE RIGID MOUNTED WITH CENTERLINE OF MAST ARM MATCHING CENTERLINE OF RED
- 6. SIGNAL HEADS SHALL BE YELLOW AND INCLUDE BACKPLATES AS PER ODOT CMS 632 AND 732.

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

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

- SIGNAL HEADS AND VISORS SHALL BE CONSTRUCTED OF BLACK POLYCARBONATE PLASTIC AND MEET ITE
- PROPER EXTERIOR COLORS SHALL BE OBTAINED BY USE OF COLORED PLASTIC MATERIAL RATHER THAN PAINTING.
- PIPE, SPACERS, AND FITTINGS CONSTRUCTED OF POLYCARBONATE PLASTIC MAY BE USED IN LIEU OF GALVANIZED STEEL OR ALUMINUM.
- THE PEDESTRIAN SIGNAL HEAD SHALL BE OF THE LED COUNTDOWN TYPE.
- 5. NEW ATTACHMENT HARDWARE AND FITTINGS SHALL BE USED.
- THE LIGHT EMITTING DIODE (LED) MODULES SHALL MEET THE REQUIREMENTS OF CMS 732.04-C. THE CONTRACTOR SHALL PROVIDE THE CITY OF CLEVELAND, 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.
- PEDESTRIAN SIGNAL HEAD SHALL POINT TO THE CENTERLINE OF THE CROSSWALK.
- INSTALLATION SHALL BE PER ODOT STANDARD DRAWING TC-85.10 WITH THE EXCEPTION THAT "CLAM SHELLS" SHALL NOT BE USED.

PAYMENT FOR ITEM 632 - PEDESTRIAN SIGNAL HEAD (LED), (COUNTDOWN), TYPE D2, 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 - SIGNAL SUPPORT FOUNDATION, AS PER PLAN

THE CONTRACTOR SHALL PROTECT PEDESTRIANS AND VEHICLES FROM EXPOSED ANCHOR BOLTS AT ALL TIMES, UNTIL THE ASSOCIATED SIGNAL SUPPORT IS ERECTED. THE METHOD OF COVERING THE ANCHOR BOLTS SHALL BE APPROVED BY THE ENGINEER.

ALL COSTS ASSOCIATED WITH THE PROCEDURES AS OUTLINED ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE UNIT PRICE BID PER EACH FOR ITEM 632 - SIGNAL SUPPORT FOUNDATION, AS PER PLAN.

<u>ITEM 632 - POWER SERVICE, AS PER PLAN</u>

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632.24, ELECTRIC POWER SHALL BE OBTAINED FROM CLEVELAND PUBLIC POWER (CPP) AS INDICATED IN THE PLANS. POWER SUPPLIED SHALL BE 120 VOLTS. ALL POWER CABLES AHLL BE RATED FOR 600 VOLTS AND CONSIST OF NO. 6 AWG COPPER. ALL CONNECTIONS OF POWER CABLE TO EQUIPMENT SHALL BE BY MEANS OF APPROVED SOLDERLESS TYPE CONNECTORS. THE SOLDERLESS CONNECTORS ARE TO BE TAPED. POWER SERVICE SHALL ALSO INCLUDE 2 INCH CONDUIT RISES WHERE NECESSARY.

THE CONTRACTOR SHALL MEET ON SITE WITH CPP THREE (3) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT CPP TO MAKE THE NECESSARY ARRANGEMENTS.

ITEM 632 - SIGNALIZATION, MISC.: FOUNDATION TEST HOLES

IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED THAT PRECLUDE THE USE OF THE STANDARD OR ALTERNATE FOUNDATION DESIGNS, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH COMPLETE INFORMATION REGARDING THE OBSTRUCTION INCLUDING TYPE (I.E. UTILITY), SIZE, DEPTH, AND LATERAL CLEARANCES TO THE SIDES OF THE FOUNDATION EXCAVATION. THE FOUNDATION HOLE SHALL BE COVERED WITH A STEEL PLATE (3/4 INCH PLYWOOD ION PEDESTRIAN ACCESSIBLE AREA) UNTIL THE ENGINEER DETERMINES IF A NEW FOUNDATION LOCATION IS REQUIRED. IF SUBSEQUENTLY DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL BACKFILL AND COMPACT THE HOLE AND PROPERLY RESTORE THE SURFACE. ALL DRIVEWAYS, SIDEWALKS, CURB, TREE-LAWNS, AND AREAS BEHIND THE SIDEWALK AND THE RIGHT-OF-WAY LINE NOT DESIGNATED FOR REMOVAL OR REPAIR THAT HAVE BEEN DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE RESTORED. GENERALLY, ANY DAMAGED SLAB SHALL BE TOTALLY REPLACED. PARTIAL REPLACEMENTS WILL BE PERMITTED ONLY IF ADJACENT SLAB IS REPLACED AND AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE COMPENSATED FOR EACH FOUNDATION HOLE THAT MUST BE ABANDONED. PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND OTHER INCIDENTALS, INCLUDING BACKFILL COMPACTING AND SURFACE RESTORATION, SHALL BE AT THE CONTRACT BID UNIT PRICE PER EACH FOR ITEM 632 - SIGNALIZATION, MISC.: FOUNDATION TEST HOLES FOR THE NUMBER EXCAVATED AND BACKEILLED.

ITEM 632 - SIGNAL SUPPORT, TYPE TC-81.22 (BY DESIGN), AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632 AND 732, SIGNAL SUPPORTS SHALL BE PAINTED ACCORDING TO THE FOLLOWING:

POWDER COATING - COLOR: BLACK

SURFACE PREPARATION: THE EXTERIOR STEEL SURFACE SHALL BE BLAST CLEANED TO STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION NO. 6 (SSPC-SP6) REQUIREMENTS UTILIZING CAST STEEL ABRASIVES CONFORMING TO THE SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) RECOMMENDED PRACTICE J827. THE BLAST METHOD USED IS A RECIRCULATING, CLOSED CYCLE CENTRIFUGAL WHEEL SYSTEM WITH ABRASIVE CONFORMING TO SAE SHOT NUMBER S280.

INTERIOR COATING: INTERIOR SURFACES (POLE SHAFTS ONLY) AT THE BASE END FOR A LENGTH OF APPROXIMATELY 2.0 FEET SHALL BE MECHANICALLY CLEANED AND COATED WITH A ZINC RICH EPOXY POWDER. THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN BY HEATING THE STEEL SUBSTRATE TO A MINIMUM OF 359 DEGREES FAHRENHEIT AND A MAXIMUM OF 400 DEGREES FAHRENHEIT.

EXTERIOR COATING: ALL OF THE EXTERIOR SURFACES SHALL BE COATED WITH A URETHANE OR TRIGLYCIDYL ISOCYANURATE (TRIC) POLYESTER POWDER TO A MINIMUM FILM THICKNESS OF 2.0 MILS (0.002\mathfrak{3}\)2. THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN BY HEATING THE STEEL SUBSTRATE TO A MINIMUM OF 350 DEGREES FAHRENHEIT. THE THERMOSETTING POWDER RESIN SHALL PROVIDE BOTH INTERCOAT AS WELL AS SUBSTRATE FUSION ADHESION THAT MEETS 5A OR 5B CLASSIFICATIONS OF ASTM D3359.

COMBINATION COATING GALVANIZED-POWDER TOP COAT

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SURFACE PREPARATION: PRIOR TO BEING INCORPORATED INTO AN ASSEMBLED PRODUCT, STEEL PLATES % INCHES OR MORE IN THICKNESS SHALL BE BLAST CLEANED WHEN REQUIRED TO REMOVE ROLLED-IN MILL SCALE, IMPURITIES AND NON-METALLIC FOREIGN MATERIALS. AFTER ASSEMBLY, ALL WELD FLUX SHALL BE MECHANICALLY REMOVED. THE IRON OR STEEL PRODUCT SHALL BE DEGREASED BY IMMERSION IN AN AGITATED 4.5% - 6.0% CONCENTRATED CAUSTIC SOLUTION ELEVATED TO A TEMPERATURE RANGING FROM 150 DEGREES FAHRENHEIT TO 190 DEGREES FAHRENHEIT. IT SHALL NEXT BE RINSED CLEAN FROM ANY RESIDUAL EFFECTS OF THE CAUSTIC OR ACID SOLUTIONS BY IMMERSION IN A CIRCULATING FRESH WATER BATH. FINAL PREPARATIONS SHALL BE ACCOMPLISHED BY IMMERSION IN CONCENTRATED ZINC AMMONIUM CHLORIDE FLUX SOLUTION HEATED TO 130 DEGREES FAHRENHEIT. THE SOLUTIONS ACIDITY CONTENT SHALL BE MAINTAINED BETWEEN 4.5-5.0 DH. THE ASSEMBLY SHALL BE AIR-DRIED TO REMOVE ANY MOISTURE REMAINING IN THE FLUX COAT AND/OR TRAPPED WITHIN THE PRODUCT.

ZINC COATING: THE PRODUCT SHALL BE HOT-DIP GALVANIZED TO THE REQUIREMENTS OF EITHER ASTM A123 (FABRICATED PRODUCTS) OR ASTM A153 (HARDWARE ITEMS) BY IMMERSION IN A MOLTEN BATH OF PRIME WESTERN GRADE ZINC MAINTAINED BETWEEN 810 DEGREES FAHRENHEIT AND 850 DEGREES FAHRENHEIT. THE ENTIRE PRODUCT SHALL BE TOTALLY IMMERSED WITH NO PARTS PROTRUDING OUT OF THE ZINC (NO DOUBLE DIPPING). THIS IS TO LIMIT RISK OF TRAPPED CONTAMINANTS CONTAINING CHLORIDES AND REDUCE THE RISK OF BARE SPOTS (BARE SPOTS CAN OCCUR WHEN FLUX ON THE STEEL SURFACE IS BURNED AWAY BY HEAT OF THE FIRST DIP). MAXIMUM ALUMINUM CONTENT OF THE BATH SHALL BE 0.01% FLUX ASH SHALL BE SKIMMED FROM THE BATH SURFACE PRIOR TO IMMERSION AND EXTRACTION OF THE PRODUCT TO ASSURE A DEBRIS FREE ZINC COATING.

EXTERIOR COATING: ALL GALVANIZED EXTERIOR SURFACES SHALL BE COATED WITH A URETHANE OR TRIGLYCIDUL ISOCYANURATE (TRIC) POLYESTER POWDER TO A MINIMUM FILM THICKNESS OF 2.0 MILS (0.002"). PRIOR TO APPLICATION, THE SURFACES TO BE POWDER COATED SHALL BE MECHANICALLY ETCHED BY BRUSH BLASTING (REF. SSPC-SPT) AND THE ZINC COATED SUBSTRATE PREHEATED TO 450 DEGREES FAHRENHEIT FOR A MINIMUM OF ONE-HOUR IN A GAS FIRED CONVECTION OVEN. THE COATING SHALL BE ELECTROSTATICALLY APPLIED AND CURED IN A GAS FIRED CONVECTION OVEN TO A MINIMUM OF 350 DEGREES FAHRENHEIT AND A MAXIMUM OF 400 DEGREES FAHRENHEIT. THE THERMOSETTING POWDER RESIN SHALL PROVED BOTH INTERCOAT AS WELL AS SUBSTRATE FUSION ADHESION THAT MEETS 5A OR 5B CLASSIFICATIONS OF ASTM D3359.

THE CITY OF CLEVELAND. DIVISION OF TRAFFIC ENGINEERING REQUIRES THAT THE CONTRACTOR MEET WITH A TRAFFIC DEPARTMENT REPRESENTATIVE PRIOR TO FOUNDATION INSTALLATIONS TO VERIFY LOCATIONS AND FOR FINAL POLE ORIENTATIONS. CONTACT ANDREW CROSS, TRAFFIC ENGINEER AT (216) 664-3197, 48 HOURS PRIOR TO COMMENCING WORK.

ITEM 632 - PEDESTAL, 8', AS PER PLAN ITEM 632 - PEDESTAL, 15', AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 632 AND 732, PEDESTALS SHALL BE PAINTED AND FINISHED ACCORDING TO THE SIGNAL SUPPORT SPECIFICATIONS IN THESE PLANS.

ITEM 633 - CABINET, TYPE TS-2, AS PER PLAN

TRAFFIC SIGNAL CONTROLLER -

THE CONTROLLER SHALL MEET OR EXCEED ALL REQUIREMENTS SET FORTH BY THE INSTITUTE OF TRANSPORTATION ENGINEERS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND ALL ADOPTED REVISIONS. ALL TRAFFIC SIGNAL CONTROLLERS SHALL BE SIEMENS M-60.

BASE MOUNTED CABINETS -

THE CONTROLLER SHALL BE PROVIDED IN A BASE-MOUNTED CONTROL CABINET.

ALL NECESSARY INSTALLATION HARDWARE AND TEMPLATES SHALL BE PROVIDED.

MINIMUM OUTSIDE DIMENSIONS OF CABINET SHALL BE 25 INCHES (WIDTH) BY 16 INCHES (DEPTH) BY 48 INCHES (HEIGHT).

A GPS TIMESYNC UNIT SHALL BE COMPLETELY WIRED IN EACH CABINET IN ORDER TO REPORT CABINET FAILURES, DETECTOR FAILURES AND TRAFFIC COUNTS. THE CONTROLLER SHALL BE COMPLETELY COMPATIBLE WITH THE LATEST EDITION OF THE CITY OF CLEVELAND'S CLOSED LOOP SYSTEM SOFTWARE.

THE ITEMS SUPPLIED SHALL BE IN CONFORMANCE WITH THE ABOVE REFERENCE SPECIFICATION AND SHALL BE SUPPLEMENTED WITH THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS. PAYMENT FOR ACCEPTED MATERIALS WILL BE MADE AT THE UNIT BID PRICE OF EACH ITEM INSTALLED AND ACCEPTED.

ITEM 630 - SIGN, STREET NAME, AS PER PLAN

BORDER, AND LEGEND.

OVERHEAD MOUNTED STREET NAME SIGNS SUPPLIED UNDER THIS ITEM SHALL MEET THE REQUIREMENTS OF 630, WITH THE FOLLOWING EXCEPTIONS:

- 1. THE BACKGROUND COLOR OF THE SIGN SHALL BE BLUE. 2. TYPE G SHEETING SHALL BE USED FOR THE BACKGROUND,
- 3. THE LEGEND SHALL BE FORMED FROM UPPER AND LOWER CASE LETTERS USING THE UNIVERSE 65 FONT, 12 INCHES HIGH FOR ONE LINE MESSAGES, AND 7 INCHES HIGH FOR TWO LINE MESSAGES.
- 4. THE BACKING MATERIAL SHALL BE A FLAT SHEET PLATE 20 INCHES HIGH FOR ONE LINE MESSAGES AND 24 INCHES HIGH FOR TWO LINE MESSAGES.
- 5. THE BORDER SHALL BE $lag{1}{4}$ INCH WIDE, INSET $lag{1}{2}$ INCH FROM THE EDGE OF THE PLATE.

PAYMENT FOR ITEM 630 - SIGN, STREET NAME, AS PER PLAN, WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH SIGN

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

SIGN HANGER ASSEMBLY, MAST ARM SHALL BE AS PER REQUIREMENTS OF C&MS 630 AND 730. SIGNS MOUNTED ON PROPOSED TRAFFIC SIGNAL MAST ARMS SHALL BE RIGIDLY ATTACHED TO THE ARM AND CENTERED VERTICALLY ON THE ARM. THE CONTRACTOR MAY USE THE METHOD OF ATTACHMENT SHOWN IN STANDARD CONSTRUCTION DRAWING TC-16.21 OR ANOTHER METHOD OF RIGID ATTACHMENT AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL INSURE THE SIGN FACE IS MOUNTED PERPENDICULAR (90 DEGREES) TO THE DIRECTION OF

PAYMENT FOR ITEM 630 - SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE BID FOR EACH. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABORS, TOOLS, EOUIPMENT AND ALL PARTS NECESSARY TO ERECT ON INDIVIDUAL SIGN. CUY-EAST 185TH STREET



632 632 632 632 632 632 632 632 632 632 632 632 632 632 632 632 633 633 633 633 809 VAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN PLAN POWER CABLE, 3 CONDUCTOR, NO. 6 AWG CONDUIT RISER, 3" DIAMETER REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN PEDESTAL, 15', AS PER PLAN GPS (GLOBAL POSITIONING SYSTEM) CLOCK ASSEMBLY PEDESTAL, 8', AS PER PLAN GNAL SUPPORT, TYPE TC-81 DESIGN 12, AS PER PLAN SIGNALIZATION, MISC.: FOUNDATION TEST HOLE ATC V6.24 CONTROLLER POWER SERVICE, AS PER SIGNAL SUPPORT FOUN AS PER PLAN GNAL SUPPORT, TYPE DESIGN 13, AS PER F SIGNALIZATION, MISC.: F CAUTION TAPE CABLE, 3 CON NO. 6 AWG 'NAL SUPPORT, I DESIGN 4, AS F SHEET STATION TO STATION NO. NO. PEDESTAL ROAD EACH EACH FT FT FT EACH FT EACH EACH EACH EACH EACH PARTICIPATION CODE (ALL ITEMS): 05/ENH/PV VILLAVIEW (VILLAVIEW ROAD) 192 29+35.30 77 31 C-1 LT 192 512+73.00 SP-1 192 512+15.50 LT SP-2 192 512+77.50 LT 1 1 SP-3 192 513+38.00 RT SP-4 192 512+36.00 RT PP-1 192 513+15.00 LT RT PP-2 192 512+04.00 192 C-1 TO PB-4 24 192 PB-4 SP-2 13 SUBSUMMARY TO 192 PB-4 PB-2 67 192 PB-2 TO PB-3 32 TO 6 192 SP-1 PB-2 192 PB-2 TO PB-1 56 192 PB-2 TO PB-5 83 192 PB-5 TO PP-2 29 192 PB-5 TO SP-4 6 192 PB-4 TO PP-1 34 PB-4 192 PB-6 108 TO 192 PB-6 TO SP-3 22 SIGNAL 192 C-1 SIGNAL 2A 192 TO SIGNAL 2B 192 C-1 TO SIGNAL 4A 192 TO SIGNAL 4B C-1 192 C-1 TO SIGNAL 5A 192 C-1 TO SIGNAL 6A TRAFFIC 192 C-1 TO SIGNAL 6B 192 TO SIGNAL 8A C-1 TO SIGNAL 8B 192 C-1 192 C-1 TO PED A-A 192 C-1 TO PED B-B 192 C-1 TO PED C-C 192 C-1 TO PED D-D 192 C-1 TO L4A, L4B, & L4C 147 192 C-1 TO L5A, L5B 172 TO L8A, L8B, L8C, & L8D 192 C-1 143 STREET **CUY-EAST** 239 TOTALS CARRIED TO GENERAL SUMMARY 462

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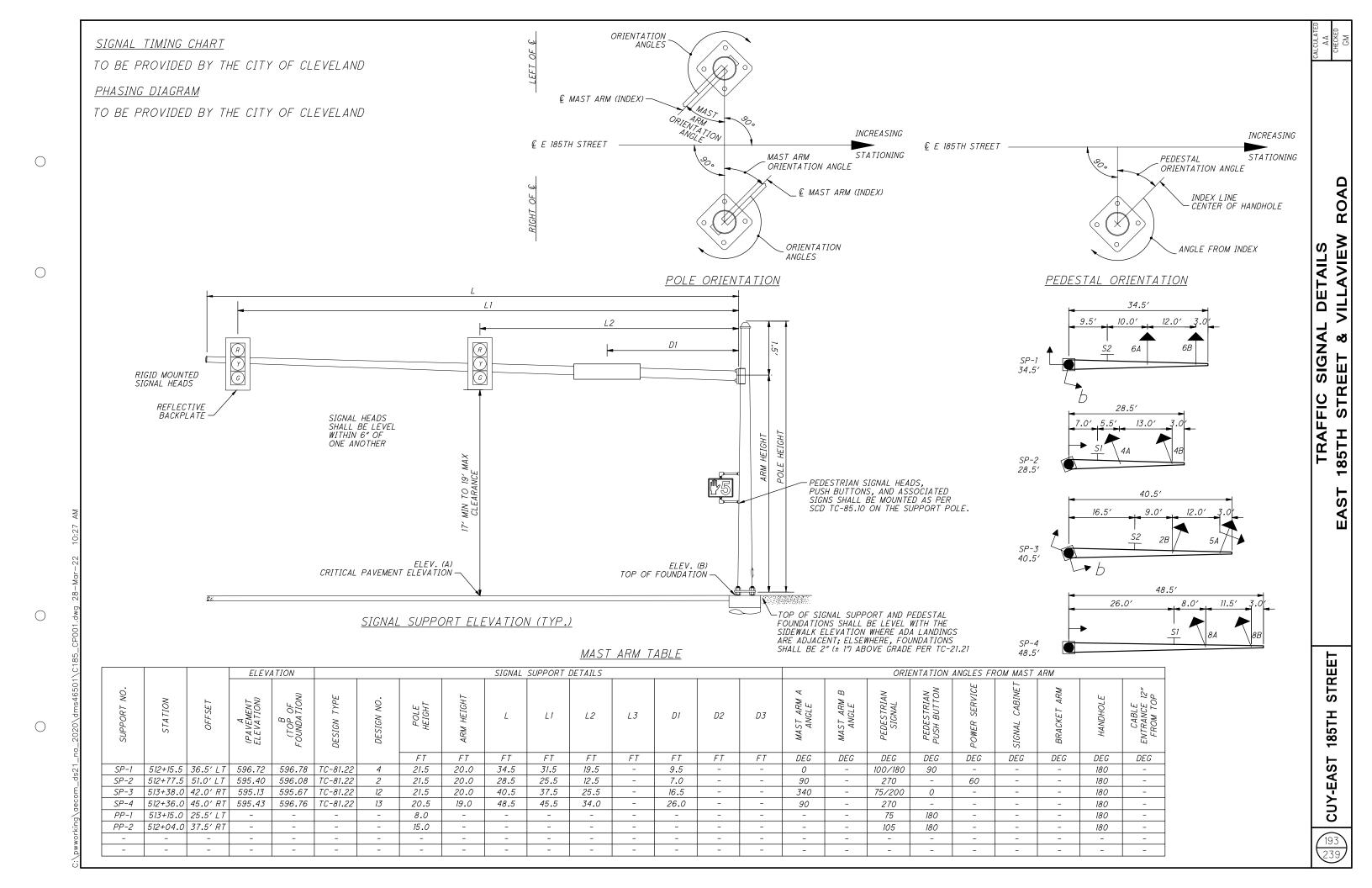
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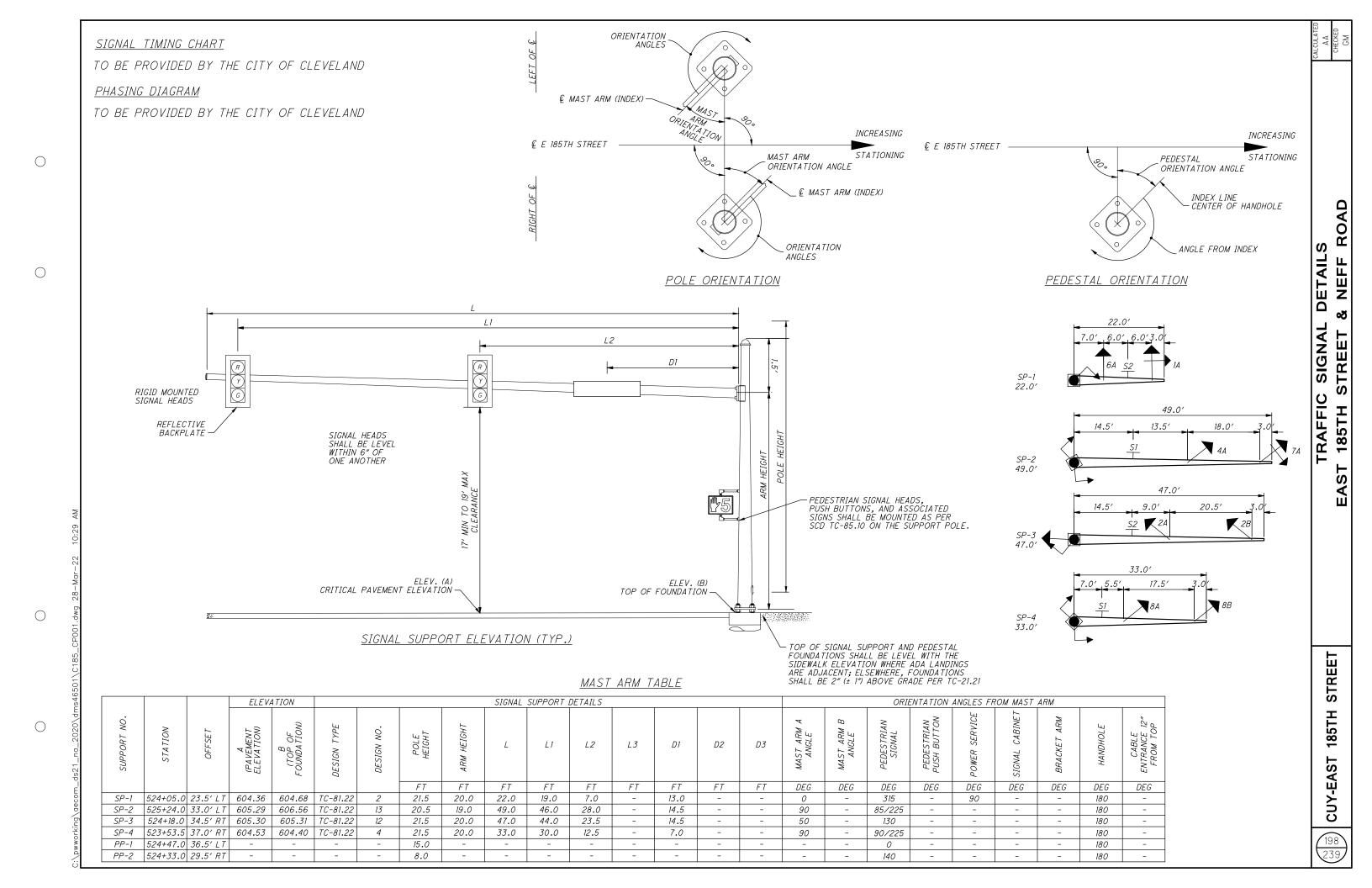
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PROVIDE CENTER ARM REST

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THE BENCHES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND MANUFACTURER'S RECOMMENDED INSTALLATION. PAYMENT FOR THIS ITEM INCLUDES ALL EQUIPMENT, LABOR AND MATERIALS FOR SITE PREPARATION, SHOP DRAWINGS, MOUNTING HARDWARE, AND ANY OTHER INCIDENTAL WORK RELATING TO THE COMPLETE IN PLACE INSTALLATION OF THE BENCHES. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

MOUNTING: SURFACE MOUNT MATERIAL: POWDER COATED STEEL SLATS AND FRAME DUCTILE IRON ARMS AND LEGS LENGTH: 6'-0" COLOR: BLACK

ALL STEEL AND IRON TO BE MADE IN THE USA WITH TRACEABLE ORIGIN IN COMPLIANCE WITH THE BUY AMERICA ACT AND ODOT CMS 106.09.

APPROVED BENCH MODELS AND MANUFACTURERS ARE AS SPECIFIED BELOW.

BASIS OF DESIGN: MODEL CR-10 WITH CENTER ARM REST BY VICTOR STANLEY. INC. DUNKIRK, MD 20754, 1-800-368-2573

MODEL 493 WITH CENTER ARMREST BY DUMOR, INC, P.O. BOX 142, MIFFLINTOWN, PA, 17059, 1-800-598-4018 AIT 2:

ARLINGTON BENCH WITH VERTICAL STRAP SEAT AND CENTER ARMREST BY SITESCAPES, INC. P.O. BOX 22326, LINCOLN, NE, 68542, 1-888-331-9464

THIS ITEM SHALL BE PAID ON A PER EACH BASIS.

ITEM SPECIAL - BENCH TYPE B (BACKLESS)

THE BENCHES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND MANUFACTURER'S RECOMMENDED INSTALLATION. PAYMENT FOR THIS ITEM INCLUDES ALL EQUIPMENT, LABOR AND MATERIALS FOR SITE PREPARATION, SHOP DRAWINGS, MOUNTING HARDWARE, AND ANY OTHER INCIDENTAL WORK RELATING TO THE COMPLETE IN PLACE INSTALLATION OF THE BENCHES. THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS TO PROJECT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. APPROVED BENCH MODELS AND MANUFACTURERS/SALES REPRESENTATIVE ARE AS SPECIFIED BELOW.

MOUNTING: SURFACE MOUNT MATERIAL: POWDER COATED STEEL SLATS AND FRAME DUCTILE IRON ARMS AND LEGS LENGTH: 6'-0"

COLOR: BLACK PROVIDE CENTER ARM REST

ALL STEEL AND IRON TO BE MADE IN THE USA WITH TRACEABLE ORIGIN IN COMPLIANCE WITH THE BUY AMERICA ACT AND ODOT CMS 106.09.

APPROVED BENCH MODELS AND MANUFACTURERS ARE AS SPECIFIED BELOW.

BASIS OF DESIGN: MODEL CR-5 WITH CENTER ARM REST BY VICTOR STANLEY, INC. DUNKIRK, MD 20754, 1-800-368-2573

WESTPORT BACKLESS BENCH WITH CAST IRON ENDS AND CENTER ARMREST BY SITESCAPES, INC. P.O. BOX 22326, LINCOLN, NE. 68542, 1-888-331-9464

<u>ALT 2:</u>

MODEL 494 WITH CENTER ARMREST BY DUMOR, INC. P.O. BOX 142, MIFFLINTOWN, PA, 17059, 1-800-598-4018

THIS ITEM SHALL BE PAID ON A PER EACH BASIS.

ITEM SPECIAL - GATEWAY TOTEM SIGN

THIS ITEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND NOTES. PAYMENT FOR THIS ITEM INCLUDES ALL EQUIPMENT, LABOR, AND MATERIAL FOR SHOP DRAWINGS, SUBMITTALS, SITE PREPARATION, AND ANY OTHER INCIDENTAL WORK RELATING TO THE COMPLETE IN PLACE INSTALLATION OF THE GATEWAY TOTEM SIGN.
CONTRACTOR TO SUBMIT ALL SUBMITTALS LISTED IN SIGNAGE NOTES TO PROJECT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

ALL STEEL AND IRON TO BE MADE IN THE USA WITH TRACEABLE ORIGIN IN COMPLIANCE WITH THE BUY AMERICA ACT AND ODOT CMS 106.09.

THIS ITEM SHALL BE PAID ON A PER EACH BASIS.

ITEM SPECIAL - DECORATIVE STREET BANNER

THIS ITEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND NOTES. PAYMENT FOR THIS ITEM INCLUDES ALL EQUIPMENT, LABOR AND MATERIAL FOR SHOP DRAWINGS, SITE PREPARATION, SUBMITTALS, FASTENING STRIPS, METAL BANNERS, BOLTS, AND ANY OTHER INCIDENTAL WORK RELATING TO THE COMPLETE IN PLACE INSTALLATION OF THE DECORATIVE STREET BANNER. CONTRACTOR TO SUBMIT ALL SUBMITTALS LISTED IN SIGNAGE NOTES TO PROJECT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

ALL STEEL AND IRON TO BE MADE IN THE USA WITH TRACEABLE ORIGIN IN COMPLIANCE WITH THE BUY AMERICA ACT AND ODOT CMS 106.09.

THIS ITEM SHALL BE PAID ON A PER EACH BASIS.

ITEM SPECIAL - FABRICATION AND INSTALLATION OF PUBLIC

THIS ITEM SHALL COVER THE COST FOR THE FABRICATION AND INSTALLATION OF (1) PUBLIC ART WORK LOCATED ON E. 185TH STREET AT THE FOLLOWING LOCATION.

• STA. 533+90.62, OFFSET 20.00 LT

THE ARTIST WILL BE SELECTED BY THE CITY OF CLEVELAND AND LAND STUDIO. THE DESIGN OF THE ARTWORK IS NOT INCLUDED IN THIS PAY ITEM AND IS EXCLUDED FROM THIS

THE CONTRACTOR'S BID ITEM SHALL INCLUDE COSTS TO BE ALLOCATED FOR THE ARTIST TO FABRICATE AND INSTALL THE PUBLIC ARTWORK. THIS ITEM SHALL INCLUDE THE FASTENERS (ANCHOR BOLTS OR OTHER MEANS OF ATTACHMENT). AS DESIGNED BY THE ARTIST, REQUIRED TO ATTACH THE PUBLIC WORK TO THE FOUNDATION.

THE DESIGN AND CONSTRUCTION OF THE FOUNDATION FOR THE PUBLIC ART WORK SHALL BE PAID FOR UNDER A SEPARATE PAY ITEM:

ITEM SPECIAL - PUBLIC ART FOUNDATION.

THERE IS AN ESTABLISHED BID ALLOWANCE FOR THIS ITEM IN THE AMOUNT OF \$26,000.

THIS ITEM IS FUNDED 100% LOCALLY. WRITTEN QUOTES FOR THE ARTISTS FABRICATION AND INSTALLATION OF THE PUBLIC ARTWORK CAN BE OBTAINED BY CONTACTING:

TARRA PETRAS PUBLIC ART PROJECT COORDINATOR CITY OF CLEVELAND 216.664.6740

VINCE REDDY, PROJECT MANAGER LAND STUDIO 216.621.5413, EXT. 107

PAYMENT FOR ACCEPTED QUANTITIES SHALL BE MADE AT THE CONTRACT PRICE FOR: ITEM SPECIAL - FABRICATION AND INSTALLATION OF PUBLIC ART (LUMP)

ALL STEEL AND IRON TO BE MADE IN THE USA WITH TRACEABLE ORIGIN IN COMPLIANCE WITH THE BUY AMERICA ACT AND ODOT CMS 106.09.

THIS ITEM SHALL BE PAID FOR ON A PER EACH BASIS.

ITEM SPECIAL - PUBLIC ART FOUNDATION

THIS ITEM SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE CONCRETE FOUNDATION FOR THE PUBLIC ART WORK. THIS ITEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

- FOUNDATION TEST PIT TO VERIFY THERE ARE NO UTILITIES OR OTHER OBSTRUCTIONS.
- EXCAVATION TO THE REQUIRED DEPTH AND TO THE DIMENSIONS THAT ALLOWS FOR THE INSTALLATION OF THE FORM WORK.
- DISPOSAL OF EXCAVATED MATERIAL
- ALL NECESSARY FORMWORK
- FURNISHING AND PLACEMENT OF THE FOUNDATION TO THE DIMENSIONS AND SPECIFICATIONS INDICATED ON THE DETAIL DRAWINGS. ALL CONCRETE SHALL BE CLASS QC1.

ARTWORK ANCHORAGE SHALL BE EXCLUDED FROM THIS PAY ITEM AND INSTEAD INCLUDED IN THE FOLLOWING PAY ITEM:

• ITEM SPECIAL - FABRICATION AND INSTALLATION OF PUBLIC ART

THE CONTRACTOR SHALL COORDINATE WITH THE ARTISTS AS TO NOT DELAY THE PROJECT.

THE PUBLIC ART FOUNDATION SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS AND DETAIL NOTES ON SHEET 217.

THIS ITEM SHALL BE PAID ON A PER EACH BASIS.



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