ITEM 632 - LOOP DETECTOR TIE-IN. AS PER PLAN

THIS ITEM SHALL CONSIST OF THE WORK NECESSARY TO SPLICE A NEW DETECTOR WIRE TO EXISTING LOOP LEAD-IN CABLE IN A PULL BOX AT A DETECTOR LOOP REPLACEMENT LOCATION. THE CONTRACTOR SHALL CAREFULLY REMOVE AN EXISTING EPOXY INSULATED SPLICE KIT TO MINIMIZE ANY DAMAGE AND TO PRESERVE THE AMOUNT OF SLACK IN THE EXISTING LOOP LEAD-IN CABLE. THE CONTRACTOR SHALL ALSO REMOVE THE EXISTING DETECTOR WIRE IN THE PULL BOX AND IN THE CONDUIT TO THE PAVEMENT EDGE. THIS ITEM SHALL ALSO INCLUDE THE SOLDERING AND SPLICING OF THE WIRE TOGETHER WITH THE CABLE AND INSTALLING A NEW EPOXY INSULATED SPLICE KIT AS DESCRIBED IN CMS 632.23.

THE DEPARTMENT WILL MEASURE ITEM 632 - LOOP DETECTOR TIE-IN, AS PER PLAN, BY THE NUMBER OF EACH COMPLETE TIE-IN INSTALLED AND ACCEPTED. THIS WILL ALSO INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS ITEM OF WORK.

TTEM 632 - COMBINATION STRAIN POLE, TYPE TC-81.11, DESIGN 12 ITEM 632 - STRAIN POLE, TYPE TC-81.11, DESIGN 12, BY LENGTH, AS PER PLAN

THE CONTRACTOR WILL BE REQUIRED TO PURCHASE DESIGN 12. 32' AND 34'. SIGNAL STRAIN POLES WITH ANCHOR BOLTS FOR THIS CONTRACT. IN ADDITION TO CMS 732.12, ALL POLES WILL REQUIRE BOTH A 3-INCH BLIND COUPLING AT 1-FOOT DOWN FROM THE TOP OF THE POLE AT 180 DEGREES FROM THE HANDHOLE, A 1.5-INCH BLIND COUPLING AT 1-FOOT ABOVE AND AT 90 DEGREES FROM THE HANDHOLE. AND A 2-INCH BLIND HALF COUPLING AT 1-FOOT ABOVE THE BOTTOM OF THE POLE AT 270 DEGREES FROM THE HANDHOLE.

IT MAY BE NECESSARY TO CUT DOWN A 32' OR 34' SUPPLIED POLE TO ACCOMMODATE OVERHEAD UTILITIES OR OTHER SITE CONSTRAINTS. SIGNAL PLANS WILL INDICATE WHERE THIS IS REQUIRED. ALL LABOR. MATERIALS. AND EQUIPMENT REQUIRED TO CUT DOWN THE STRAIN POLE WILL BE INCLUDED IN THE COST OF THE STRAIN POLE.

THE COMBINATION STRAIN POLES ARE INTENDED FOR USE AT THE INTERSECTION OF BYPASS 4 AND PRINCETON RD IN BUTLER COUNTY. DESIGN DETAILS AND REQUIREMENTS WILL BE GIVEN TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. ITEM 608 - CURB RAMP, AS PER PLAN

THIS ITEM WILL CONSIST OF INSTALLING A CURB RAMP(S) ON A CORNER AT AN INTERSECTION IN ACCORDANCE WITH CMS 608.07. INCLUDED IN THIS ITEM WILL BE THE REMOVAL OF ANY EXISTING CURB AND NON-COMPLIANT CURB RAMPS, ACCORDING TO CMS 202.05, THAT IS NECESSARY TO INSTALL THE CURB RAMP.

THE PROPOSED CURB RAMP SHALL CONFORM TO STANDARD CONSTRUCTION DRAWING BP-7.1 AND MAY BE A TYPE A1, A2, B1, B2, C1, C2 OR D CURB RAMP. ALSO INCLUDED IN THIS PAY ITEM SHALL BE NEW CURB NECESSARY TO REPLACE THE CURB REMOVED FOR THE INSTALLATION OF THE CURB RAMP. CURB MAY BE EITHER TYPE 2 OR TYPE 6.

IF IT IS NECESSARY TO REMOVE ANY PAVEMENT TO FACILITATE INSTALLATION OF THE CURB RAMP, THE REMOVAL SHALL NOT BE MORE THAN 2 FEET FROM THE FACE OF CURB, OR EDGE OF PAVEMENT. THE PAVEMENT SHALL BE RESTORED WITH FULL DEPTH ASPHALT ON 304 AGGREGATE BASE. ALL LABOR, MATERIALS AND EQUIPMENT NEEDED FOR THE REMOVAL OF ANY PAVEMENT AND SUBSEQUENT RESTORATION FOR THE INSTALLATION OF A CURB RAMP SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT.

ANY WALK NECESSARY TO INSTALL THE CURB RAMP WILL BE PAID UNDER A SEPARATE PAY ITEM.

PAYMENT FOR CURB RAMP, AS PER PLAN SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ANY EXISTING CURB OR CURB RAMPS, RESTORATION OF SURFACES, BASE COURSE MATERIAL, EXPANSION JOINT MATERIAL, GRADING, FORMING, FINISHING, TRUNCATED DOMES, MATERIALS, LABOR AND EQUIPMENT NECESSARY TO INSTALL A CURB RAMP(S) ON A CORNER AT AN INTERSECTION.

ITEM 631 - SCHOOL SPEED LIMIT SIGN ASSEMBLY, SOLAR POWERED, AS PER PLAN

THIS SPECIFICATION APPLIES TO SCHOOL SPEED LIMIT SIGN FLASHERS POWERED BY BATTERIES AND RECHARGED BY SOLAR PANELS.

THE ENTIRE SCHOOL ZONE FLASHER AND SIGN ASSEMBLY SHALL CONFORM TO THE CONTRACT DOCUMENTS AND MEET THE REQUIREMENTS SET FORTH IN THE OMUTCD. THE SIGN SIZE FOR THE SCHOOL ZONE SPEED LIMIT SHALL BE 24"X48".

THE FLASHER CONTROL AND BATTERY WILL BE HOUSED IN ONE OR MORE STAINLESS STEEL OR ALUMINUM ENCLOSURES WITH A NEMA RATING OF AT LEAST 3X. SEAL ENCLOSURE CONDUIT ENTRIES TO PREVENT INSECT AND/OR RODENT ENTRY. ENCLOSURE EXTERIOR SURFACES SHALL BE BARE OR POWDER COAT ALUMINUM OR STAINLESS STEEL. THE ENCLOSURE INTERIOR SURFACES SHALL BE THE SAME AS THE EXTERIOR.

IF CONTAINED IN A SINGLE ENCLOSURE. THE CONTROL ELECTRONICS AND BATTERY SHALL BE SEPARATED IN A MANNER TO PREVENT DAMAGE TO THE CONTROL ELECTRONICS IF THE BATTERY ENVELOPE IS COMPROMISED.

PROVIDE A LOCKING ENCLOSURE USING EITHER AN INTEGRATED LOCKING MEHCANISM OR A PADLOCK PER CMS 631.06. PROVIDE SEALED GEL-CELL AGM (ABSORBED GLASS MAT) LEAD-ACID BATTERIES FOR ALL INSTALLATIONS WITH INSTANTANEOUS LOAD REQUIREMENTS OF 4 WATTS OR ABOVE, REGARDLESS OF DUTY CYCLE. A PAIR OF LED SIGNAL BEACONS ABOVE THE SCHOOL ZONE SPEED LIMIT SIGN, MEETING THE CURRENT ITE VEHICLE TRAFFIC CONTROL SIGNAL HEADS STANDARD WILL BE USED UNLESS OTHERWISE SPECIFIED. THE MANUFACTURER OF THE SIGNAL BEACON SHALL BE LISTED ON THE DEPARTMENT'S QUALIFIED PRODUCTS LIST FOR LED SIGNAL LAMPS.

THE SOLAR PANEL AND/OR CONTROLLER MANUFACTURER WILL PROVIDE SIGNED COPIES OF CALCULATIONS USED TO SIZE THE SOLAR PANEL AND BATTERIES. INCLUDED IN THESE CALCULATIONS WILL BE THE INSOLATION VALUE USED AND ITS SOURCE, THE SOLAR PANEL EFFICIENCY, CHARGER/CONTROLLER EFFICIENCY, PROPOSED LED LAMP LOAD AND A FIGURE REPRESENTING ANTICIPATED MISCELLANEOUS LOSSES.

SOLAR PANEL MANUFACTURER MUST TEST PANEL ACCORDING TO IEC61215 OR EQUIVALENT APPROVED STANDARD. SOLAR PANEL MOUNTING MUST BE RATED FOR 90MPH DESIGN WIND AND DESIGNED TO RESIST VANDALISM. RUN REQUIREMENTS ARE 4 HOURS PER DAY FOR 2 WEEKS UNDER CONTINUOUS WORST-CASE (MINIMUM) INSOLATION FIGURES (USUALLY DECEMBER) FOR THE APPROVED GEOGRAPHIC LOCATION. USING A PANEL ELEVATION ANGLE APPROPRIATE TO THE SITE LATITUDE. AT A SUSTAINED TEMPERATURE OF 25 DEGREES FAHRENHEIT (-4 DEGREES CELSIUS).

IF VOLTAGES OVER 50V AC OR DC ARE PRESENT, GROUNDING AND BONDING REQUIREMENTS SPECIFIED IN THE ODOT CMS WILL BE FOLLOWED.

PROVIDE AN AP21 GPS TIMER THAT SATISFIES THE REQUIREMENTS OF CMS 731.10 AND IS LISTED ON THE ODOT QUALIFIED PRODUCTS LIST.

PAYMENT FOR ITEM 631 SCHOOL SPEED LIMIT SIGN ASSEMBLY, SOLAR POWERED, AS PER PLAN, SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH. PAYMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TESTING, CERTIFICATIONS AND OTHER INCIDENTALS NECESSARY TO FURNISH THE SOLAR POWERED SCHOOL ZONE FLASHER COMPLETE IN PLACE, INCLUDING THE SIGN, SUPPORT, BEACONS, GPS TIMER, ALL CONNECTIONS MADE, WIRING COMPLETE, TESTED AND ACCEPTED.

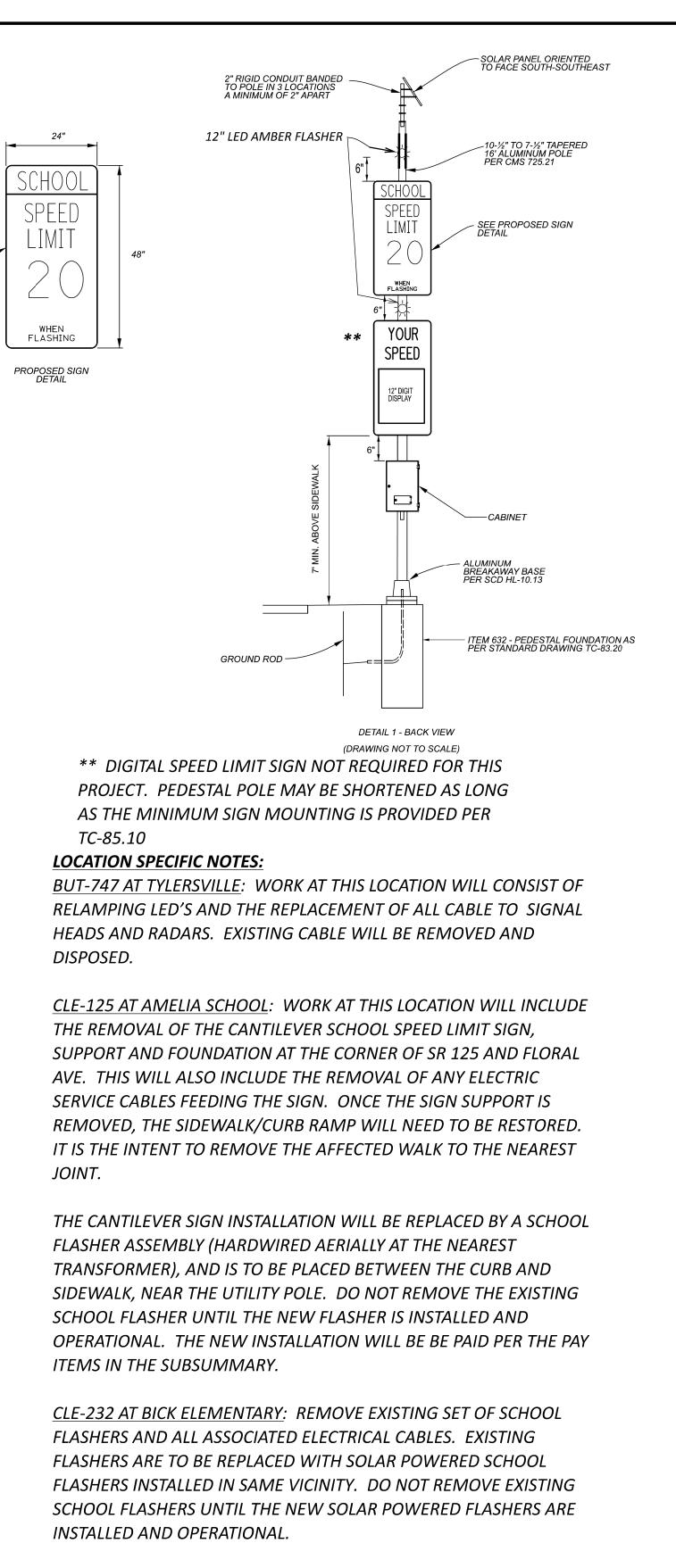
ITEM 632 - INTERCONNECT CABLE, MISC.: RADAR CABLE THIS ITEM WILL CONSIST OF SUPPLYING A CABLE THAT IS COMPATIBLE WITH THE WAVETRONIX RADAR UNITS THAT ARE TO BE REWIRED. PAYMENT WILL BE MADE PER FOOT OF CABLE INSTALLED ON THE PROJECT.

<u>3/FY</u>

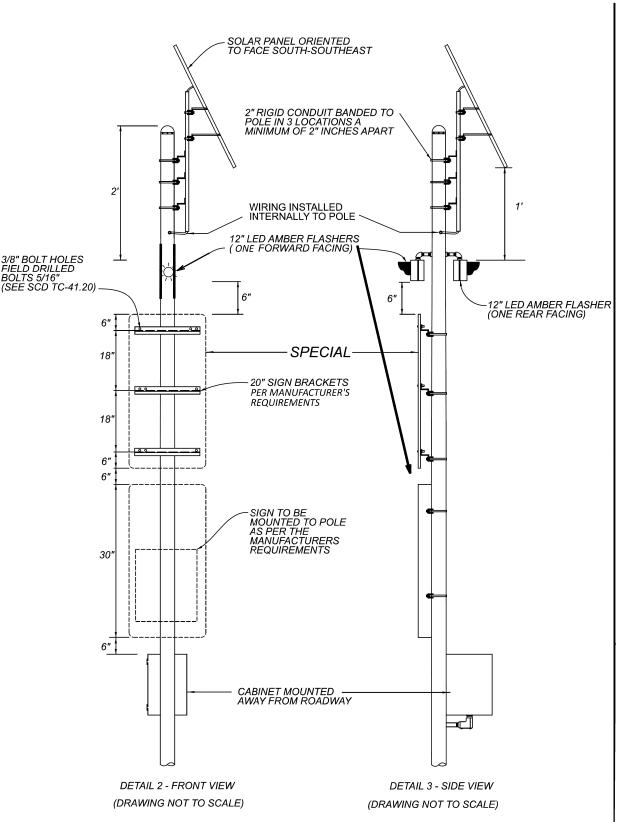
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CLE-50 AT CLERMONT NORTHEASTERN HIGH SCHOOL: EXISTING SIGNS WITH ILLUMINATED 20MPH SECTION IS TO BE REMOVED AND DISPOSED. REPLACE WITH STANDARD 24" X 48" FLAT SHEET SCHOOL SPEED LIMIT SIGN (S5-H1). EXISTING YELLOW BEACONS ARE TO REMAIN, BUT LED MODULES WILL BE REPLACED.



LOCATION SPECIFIC NOTES (CONT):

WAR-48 AT LEBANON/ARROW SPRINGS: WORK AT THIS LOCATION WILL CONSIST OF REMOVING THE EXISTING POLE MOUNTED CABINET AND UPS IN THE NORTH EAST CORNER AND REPLACING IT WITH A NEW GROUND MOUNTED CABINET ON THE SOUTHEAST CORNER. A NEW CABINET, FOUNDATION, WORK PAD AND NEW SIGNAL CABLE WILL BE INSTALLED. REPLACE LOOP DETECTORS WITH RADAR. ALL CURRENT DETECTION ZONES ARE TO BE MAINTAINED. REMOVE ALL LOOP LEAD-IN CABLE AND PULL BOXES SERVING LOOPS AND DISPOSE. SEE SHEET 40 FOR MORE DETAILS.

CCTV CAMERA INSTALLATIONS: IT IS THE INTENT TO INSTALL THE CCTV ON THE SIGNAL SUPPORT NEAREST THE CABINET. WHERE THIS IS NOT FEASIBLE (DUE TO INSUFFICIENT POLE HEIGHT, OTHER SIGNAL EQUIPMENT TAKING UP THE SPACE, OR IN LIEU OF A BETTER VANTAGE POINT ON ANOTHER POLE), AN ADDITIONAL LENGTH OF ETHERNET CABLE HAS BEEN PROVIDED IN THE PLANS TO INSTALL ON A DIFFERENT SUPPPORT.

HAM-74 EB AND WB RAMPS AT NEW HAVEN RD: WORK AT THESE LOCATIONS WILL CONSIST OF REPLACING ALL CABLE TO ALL SIGNAL HEADS AND RADARS. SIGNAL CABLE IS TO BE HOMERUN FROM EACH HEAD TO THE CONTROLLER. DISPOSE ALL REMOVED CABLE.

PAY ITEMS FOR THE WORK DESCRIBED IN THIS SECTION CAN BE FOUND IN THE ESTIMATED QUANTITIES SECTION.

ITEM 631 – TIMER WITH ENCLOSURE, AS PER PLAN

THIS ITEM WILL CONSIST OF FURNISHING AND INSTALLING A TIMER WITH ENCLOSURE. THE TIMER TO BE SUPPLIED IS AN AP21 SERIES GPS TIMER THAT SATISFIES THE REQUIREMENTS OF CMS 731.10 AND IS LISTED ON THE ODOT TAP LIST.

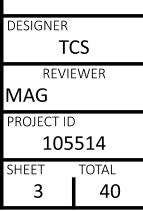
ITEM 630 – REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, AS PER PLAN

THIS ITEM WILL CONSIST OF THE REMOVAL OF THE CANTILEVER SIGN SUPPORT AT THE INTERSECTION OF SR 125 AND FLORAL AVE. THIS WORK WILL ALSO INCLUDE THE DISCONNECTION AND REMOVAL OF THE ELECTRIC SERVICE TO THE SCHOOL FLASHER SIGN AND ANY NECESSARY SITE RESTORATION. CONCRETE WALK/CURB RAMP RESTORATION WILL BE PAID UNDER SEPARATE ITEM.

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ESIGN AGENCY





									PART.	ITEM	ITEM	GRAND	UNIT	DE				
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	30												230	608	10000	230	SF	4" CONCRETE WALK
				530									530 250	608 608	52000 52001	530 250	SF SF	CURB RAMP CURB RAMP, AS PER PLAN
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			100										100	611	00400	100	FT	4" CONDUIT, TYPE E
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					1				1			(2	625 625	18500	min	EACH	BRACKET ARM, 25'
					528		654		721			6	2,403	625	23304	2,403	EACH	BRACKET ARM, 30') NO. 8 AWG 600 VOLT DISTRIBUTION CABLE
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					2		2		1				8	625 625	26253	365	EACH FT	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), A 10,000-12,000 LUMENS, WITH PHOTOCELL
					125		174		66				365	023	36010	300		UNDERGROUND WARNING/MARKING TAPE
													100	630	03100	100	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
	15												15	630	08520	15	FT	STREET NAME SIGN SUPPORT, NO. 3 POST
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									140				140	630	80224	140	SF	SIGN, OVERHEAD EXTRUSHEET
							2						2	630	80510	2	EACH	SIGN, STREET NAME
													10	630	84900	10	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPO
													10	630	86002	10	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT
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				384									984	644	00630	984	FT	CROSSWALK LINE, 24"
				181									100 181	644 644	00700 00900	100 181	FT SF	TRANSVERSE/DIAGONAL LINE ISLAND MARKING
				2									4	644	01300	4	EACH	LANE ARROW
													2	644	01410	2	EACH	WORD ON PAVEMENT, 96"
				267							-		467	644	30000	467	FT	REMOVAL OF PAVEMENT MARKING
				181							 	_	181	644	30010	181	SF	REMOVAL OF PAVEMENT MARKING
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DISPOSAL, AS PER PLAN	3	
DISPOSAL, TYPE TC-12.30		
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POWERED, AS PER PLAN	3	
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																		TRAFFIC SIGNALS		
					52		44		51		7		404	625	25408	404	FT	CONDUIT, 2", 725.051		
					73		145 122		39 270		7		364	625	25604 25900	364	FT FT	CONDUIT, 4", 725.051		_
					303 125		174		66		7		895 822	625 625	25900	895 822	FT FT	CONDUIT, JACKED OR DRILLED, 725.052, 4" TRENCH		_
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					_								8	625	30700	8	EACH	PULL BOX, 725.08, 18"		_
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		7											7	632	04910	7	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, ALUMINUM,		_
					11		7		0				12	632	05006	43	EACH	BLACK, WITHOUT BACKPLATE VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK		_
							1		9				43	632	05064	43	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK		_
		2											2	632	05080	2	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, ALUMINUM,		
							1		1				44	<u></u>	05000	44		BLACK, WITHOUT BACKPLATE		_
		182					I		I				182	632 632	05086	182	EACH EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR RED	2	_
	92	179											271	632	10101	271		RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR YELLOW	2	
	34												34	632	10101	34	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR YELLOW,	2	_
		161											161	632	10101	161	EACH	LOW VOLTAGE RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCULAR GREEN	2	_
		28											28	632	10101	28	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, CIRCOLAR GREEN	2	_
		55											55	632	10101	55	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, YELLOW ARROW	2	
		72											72	632	10101	72	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, GREEN ARROW	2	_
		50											50	632	10101	50	EACH	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, AS PER PLAN, WALKING PERSON/UPRAISED HAND	2	_
					4		4						14	632	20731	14	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	13	_
					3		4						13	632	20750	13	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON		
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													1	632	26501	1	EACH	DETECTOR LOOP, AS PER PLAN	2	
													1	632	27004	1	EACH	LOOP DETECTOR UNIT		
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													750	632 632	27201 30200	750	EACH FT	LOOP DETECTOR TIE IN, AS PER PLAN MESSENGER WIRE, 7 STRAND, ³ / ⁴ DIAMETER WITH ACCESSORIES	3	_
													750	632	30600	750	FT	TETHER WIRE, WITH ACCESSORIES		_
						447	550						1,497	632	40500	1,497	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG		
		5,940				1,813		931	1,518		1,175		14,377	632	40700	14,377	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG		_
		1,800											1,800	632	62810	1.800	FT	INTERCONNECT CABLE, MISC.: RADAR CABLE	3	_
		.,										 	11	632	64000		EACH	STRAIN POLE FOUNDATION		
						3		3	2			¥	non	632	64010	usu	EACH	SIGNAL SUPPORT FOUNDATION		
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						417		516					1,733	632	65300	1,733		LOOP DETECTOR LEAD-IN CABLE, 2 CONDUCTOR, NO. 14 AWG		_
						94		98		97			539	632	68300	539	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG		
											60		160	632	68400	160	FT	POWER CABLE, 4 CONDUCTOR, NO. 6 AWG		
													200	632	69800	200	FT	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG		— DESI
	1					1		1		1	107		107	632 632	69910 70001	107	FT EACH	SERVICE CABLE, 3 CONDUCTOR, WITH GROUND, NO. 4 AWG POWER SERVICE, AS PER PLAN	11	_
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											1		6	632	70400	6	EACH	CONDUIT RISER, 2" DIAMETER		
								2					2	632	72110	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4		
						1		4		1			2	632	72140	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13		_
						2		1					1 2	632 632	79100 79140	1 2	EACH EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2 COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13		DESI
															טדוטי					
										1			1	632	80700	1	EACH	SIGNAL SUPPORT, MISC.: SIGNAL SUPPORT TC-12.31 DESIGN 10 WITH TC-81.22	13	MA
																		DESIGN 12 AND DESIGN 13 ARMS, WITH SIGN SUPPORT TC-9.11 DESIGN 2 ARMS		PRC
													4	632	86141	4	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12, AS PER PLAN, (32')	3	
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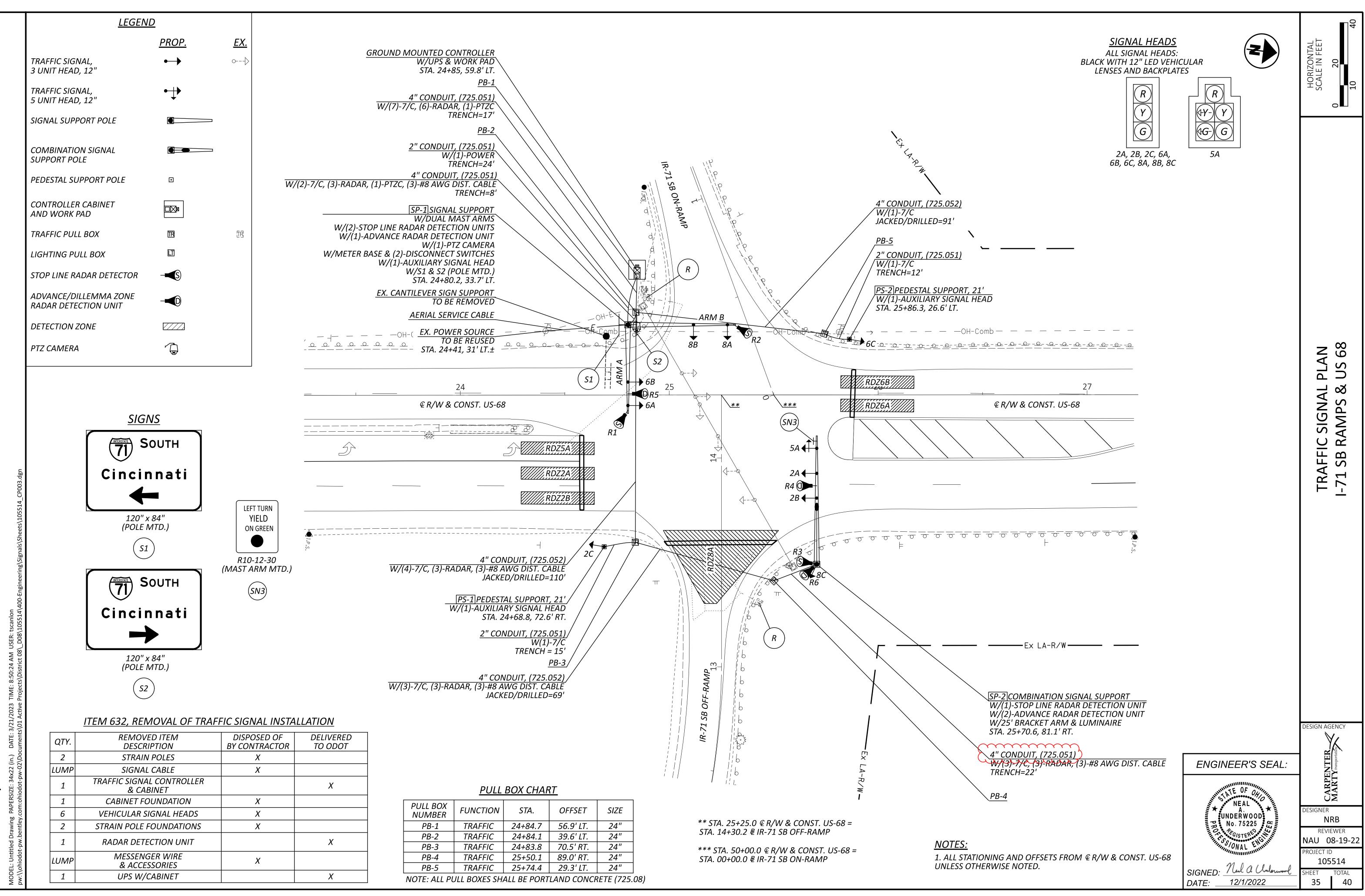
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	PART.		ITEM	GRAND		
40	1/SAE/21	ITEM	EXT	TOTAL	UNIT	D
	4 2	632	86141	4	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 12, AS PER
	3	632	87140	3	EACH	COMBINATION STRAIN POLE, TYPE TC-81.11, DES
		·····	uuu			mmmmm
	2	632	89301	2	EACH	WOOD POLE, AS PER PLAN
	2)	632	89400	2	EACH	DOWN GUY
	2 2	632	89401	2	EACH	DOWN GUY, AS PER PLAN
	8 3	632	89900	8	EACH	PEDESTAL, 8', TRANSFORMER BASE
	 2)	632	90010	2	EACH	PEDESTAL, MISC.: 15' PEDESTAL
	 5					
	2)	632	90010	2	EACH	PEDESTAL, MISC.: 21' PEDESTAL
		632	90010	1	EACH	PEDESTAL, MISC.: 25' PEDESTAL
		632	90020	10	EACH	REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL
 1	> 5 } 9 {	632 632	90100 90104	5 9	EACH EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION REUSE OF TRAFFIC CONTROL ITEM: VARIOUS SIG
I		032	90104	9	LACIT	REUSE OF TRAFFIC CONTROL ITEM. VARIOUS SIC
	5	632	90400	5	EACH	SIGNALIZATION, MISC.:: SPANWIRE ADJUSTMENT
445	3,595	632	90500	3,595	FT	SIGNALIZATION, MISC.:: UNLASH AND RELASH ME
110		002				
1	6 7	633	65521	6	EACH	CABINET, TYPE 332, AS PER PLAN
 1	6)	633	67101	6	EACH	CABINET FOUNDATION, AS PER PLAN
1		633	67201	6	EACH	CONTROLLER WORK PAD, AS PER PLAN
		633	71000	1	EACH	FLASHER CONTROLLER
1	F 6 2	633	75001	6	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 V
	5					
	<u> </u>	809	60000	9	EACH	CCTV IP-CAMERA SYSTEM, DOME-TYPE
	450 🗸	809	64550	450	FT	ETHERNET CABLE, OUTDOOR-RATED
2	29 5	809	69001	29	EACH	ADVANCE RADAR DETECTION, AS PER PLAN
4	 > 33 🔾	809	69101	33	EACH	STOP LINE RADAR DETECTION, AS PER PLAN
	 5	809	69123	5	EACH	ATC CONTROLLER, AS PER PLAN
		045	00004			
	2 }	815	30001	2	EACH	SPREAD SPECTRUM RADIO, AS PER PLAN
	 \mathcal{E}					
		614	11110	100	HOUR	MAINTE
 1		614	11110 18000	58	EACH	MAINTAINING TRAFFIC, MISC.: MAINTAINING TRAF
 I		014	10000	50	EACH	UPGRADE LOCATION
	5	614	18000	5	EACH	MAINTAINING TRAFFIC, MISC.: MAINTAINING TRA
 		014	10000	5	LACIT	
	ک ک					
	LS)	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYIN
		020	10001	20		
	LS	624	10000	LS		MOBILIZATION
	ui					
					<u> </u>	

		_
DESCRIPTION	SEE SHEET NO.	
R PLAN, (34') SIGN 12	3	
	2	
	2	
	13 13	
LITEM: VARIOUS SIGNAL COMPONENTS		
IGNAL COMPONENTS		
T IESSENGER WIRE	2 2	
	13	
	13 13	
		GENERAL SUMMARY
WATT, AS PER PLAN	13	W
		Σ
	14	SL
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R FOR ASSISTANCE AFFIC PER SIGNAL MODIFICATION/	4	
	4	
AFFIC PER SIGNAL INSTALLATION	4	
INCIDENTALS ING, AS PER PLAN	2	
		DESIGN AGENCY
		TCS REVIEWER
		MAG PROJECT ID
		105514 Sheet total
		8 40

				632	632	632	632	632	632	632	632	632	632	632	632	809	809	809	809	614	T
				_		ED), AY, UT	SR,		. `	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, CIRCULAR YELLOW, AS PER PLAN		L^	<u> </u>	. `	AND, 190	ж С		Z	Ž	AL	1
				CABLE, CABLE	AD, (LED), , 1-WAY, VITHOUT	D, (L L-W∕P THO	UCTG	JALIZATION, MISC.: LASH AND RELASH ESSENGER WIRE	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT CIRCULAR RED, AS PER PLAN	GNAI IP UN ER P	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT, CIRCULAR GREEN, AS PER PLAN	RELAMP EXISTING SIGNAL ECTION WITH LED LAMP UNIT RED ARROW, AS PER PLAN	RELAMP EXISTING SIGNAL ECTION WITH LED LAMP UNIT ELLOW ARROW, AS PER PLAN	RELAMP EXISTING SIGNAL SECTION WITH LED LAMP UNIT GREEN ARROW, AS PER PLAN		TDOC	CCTV IP-CAMERA SYSTEM DOME TYPE, AS PER PLAN		CTIO	IISC.: SIGN/	
			KER	CAL	HEAL US, 1 WI		DUN DI	, MI KELA WIR	SIG AM PER	SIG AM AS PI	SIG AM S PE	AM ER F	SIG AM SPEI	AM PER	VAL S F, W/ AISEI N	OUT	N SYS	ADA ER	CE RADAR DETECT AS PER PLAN	PER DE LC	
			ARK	ECT	VAL HE/ LACK, W LACK, W	AL H LEN ACK,	7 CON	UD P IER	ED L	ED I W, A	ED I ED I N, A	ED I ED I AS P	ED I FD I	ED L	SIG UNIT UPR		ERA AS F	E RA	PLA	TRAFF AFFIC PGRAL	
UNTY		LOCATION	ШШШ	NNN	(12" 12" ACKP	LE, 7). 14 .	ZATI	EXIST TH L RED,	LLOV	EXIST TH L REEI	EXIST TH L W, J	EXIST TH L ROW	EXIST TH L tow	ING MP SOL/I PER	CABLE, RATED	AM PE, ,	N, A	ADA PER		
			WIL	C ::	AR S ION,	JLAR SIGNAL HE JLAR SIGNAL HE TION, 12" LENS INUM, BLACK, V BACKPLATE	CABL	ASH ESSI	UP E I WI	MP E I WI R YE	MP E I WI'	MP E I WI KRC	MP E I WI ⁻	ARF ARF	EXIST ED LA SYME AS	IET	IP-C	STOP LINE RADAR TECTION, AS PER PL	CE R AS	ITAININ INING ATION,	
				INTERCONNECT (MISC.: RADAR (/EHICULAR SIG 3-SECTION, 1 ALUMINUM, DAG	HICUL -SECT UMIN	NAL	SIGNA UNLA MES	ELAI	ELAI			ELAI	ELAI TION EEN	AMP TH LE	HERN	DMB	ST	VAN	MAIN	
				=	VEHI 3-S ALU	VEHI 5-S ALU	SIGI		SECI	R SECT CIRC	R SECT CIRC	SEC	R SEC YEL	R SEC GR	RELAMP EXISTING SIGNAL S WITH LED LAMP UNIT, WA PERSON SYMBOL/UPRAISED AS PER PLAN	ЕТН		D	AD	MAM	
				FT	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FT	EACH	EACH	EACH	EACH	_
UTLER	73	SR 177	4.30					290										4	2		_
UTLER	747	UNION CENTRE BLVD	2.50						10	10	10	2	5	7	6					1	-
JTLER	747	TYLERSVILLE	4.10	1000			3250	500	10	10	10	2	5	7	4					1	_
JTLER	747	HAMILTON-MASON RD	4.90					230 3	8	8	8		2	2					2	1	_
JTLER	747	MILLIKIN	7.03						8	8	8		1	1						1	_
JTLER	75	NB & LIBERTY WAY	5.91						4	4	4	6	7	7						1	-
JTLER	75	SB & LIBERTY WAY	5.91						5	4	4	4	7	7						1	_
RMONT	28	MCCLELLAND	2.10													50	1				-
INTON	73	MITCHELL RD						275											2		_
																			<u>۲</u>		-
REENE	444	GATE 15A/SR 844 ENTRANCE RAMP	2.50						8	8	8	1	1	1						1	_
REENE	444 675	SR 844 EXIT RAMP NB & SR 235	2.60 15.40						8 6	8 6	8 6										-
			15.40						C											1	_
REENE	675 675	SB & SR 235 NB & SR 444	15.40						5 7	7	6 7		1	1						1	_
EENE	675	SB & SR 444	17.67						7	7	7		1	1						1	_
AILTON	22	HOSBROOK RD	11.67						8	8	8		<u></u>	<u> </u>	6					1	_
MILTON	27	BANNING	10.45						0	0	0		T			50	1			-	_
MILTON	27	DRY RIDGE RD	14.36						10	10	10	3	3	3	4					1	-
MILTON	27	DRY RIDGE CONNECTOR	14.36						10	10	10		2	2	6					1	
MILTON	50	NEWTOWN RD	32.50													50	1				_
VILTON	71	NB & PFEIFFER RD	15.76						9	7	7		2	3	2					1	_
VILTON	71	SB & PFEIFFER RD	15.77						8	8	8		1	1	2					1	_
MILTON	71	NB & MASON MONTGOMERY RD	17.17		7	2														1	_
VILTON	74	WB & NEW HAVEN	1.60	400			1345	430													_
AILTON	74	EB & NEW HAVEN	1.60	400			1345	425													_
AILTON	125	FIVE MILE	5.20						20	20	10	6	8	12	20					1	_
AILTON	125	FIVE MILE SOUTH CROSSOVER	5.20						4	4		2	2	6						1	
/ILTON	125	FIVE MILE NORTH CROSSOVER	5.20						4	4		2	2	6						1	_
	126		22.49						C	<u> </u>						150	1			1	_
VILTON	275	NB & FIVE MILE	37.28						6	D	D										-
RREN	22	WILLOW POND	4.96													100	1				_
	48		8.06													50	1	Λ	Λ		_
	73	RED LION FIVE POINTS	7.21						0	0	0							4 2	4	1	_
	73	BUNNELL HILL TOWNSHIP LINE	8.07 11.19					200)	ŏ	ŏ	ŏ							2	2		_
RREN	10		11.13																		_
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		TOTAL CARDIER TO THE OFFICE	SUBTOTAL	0 1800	7	2	5940	2800 ~	174	171	153	28	54	71	50	450	6	12	14	23	SHEET
		TOTAL CARRIED TO THE GENER		0 1800	/	Z	5940		174	171	153	28	54	71	50	450	D	12	14	23	

D08-TSG-FY23/FY24 MODEL: Sheet_SurvFt PAPERSIZE: 34x22 (in.) DATE: 3/21/2023 TIME: 9:41:32 AM USER: tscanton



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PULL BOX NUMBER	FUNCTI
PB-1	TRAFF
PB-2	TRAFF
PB-3	TRAFF
PB-4	TRAFF
PB-5	TRAFF
NOTE: ALL PL	JLL BOXE

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