## ITEM 611 - PIPE CULVERTS, SEWERS, DRAINS, AND DRAINAGE STRUCTURES, AS PER PLAN

THE CONTRACTOR SHALL CONFORM TO ODOT CMS ITEM 611 UNLESS SPECIFIED BELOW.

THIS WORK CONSISTS OF CONSTRUCTING CONDUITS, AND CONSTRUCTING AND RECONSTRUCTING DRAINAGE STRUCTURES THIS WORK SHALL INCLUDE EXCAVATING FOR PIPE AND FOUNDATIONS FOR SAME, INCLUDING CLEARING AND GRUBBING AND THE REMOVAL OF ALL PAVEMENTS, MATERIALS AND OBSTRUCTIONS NECESSARY FOR PLACING THE PIPE EXCEPT REMOVALS LISTED SEPARATELY: FURNISHING AND PLACING GRANULAR OR CONCRETE BEDDING, AND INITIAL BACKELL AND BACKFILL AS REQUIRED; SUPPORTING ADJACENT AND CROSSING UTILITIES; CONSTRUCTING AND SUBSEQUENTLY REMOVING ALL NECESSARY COFFERDAMS, CRIBS AND SHEETING; PUMPING AND DEWATERING; SEALING OR BANDING ALL PIPE JOINTS WHERE REQUIRED: FURNISHING AND INSTALLING ALL NECESSARY PIPE BENDS AND BRANCHES OF A TYPE AT LEAST EQUAL TO THE CONDUIT OF WHICH THEY BECOME A PART; JOINING TO EXISTING AND PROPOSED APPURTENANCES AS REQUIRED; PERFORMING LEAKAGE TESTS AS SPECIFIED; AND RESTORATION OF DISTURBED FACILITIES AND SURFACES WHEN A SEPARATE BID ITEM IS NOT PROVIDED.

MILLING AND REMOVAL OF THE TEMPORARY STONE AND OR ASPHALT WITHIN THE TRENCH LIMITS SHALL BE INCIDENTAL TO THE UNIT PRICE OF THE CONDUITS AND OR STRUCTURES

FURNISH CONDUIT CONSISTING OF ONE OF THE FOLLOWING PIPE MATERIALS:

- 706.02 REINFORCED CONCRETE CIRCULAR PIPE, ASTM C-433
- 706.04 REINFORCED CONCRETE ELLIPTICAL PIPE, ASTM C-990, ASTM C-877
- 706.05 PRECAST REINFORCED CONCRETE BOX SECTIONS, ASTM C-990, ASTM C-877
- 706.08 VITRIFIED CLAY PIPE (EXTRA STRENGTH ONLY), ASTM C- 425
- 707.45 POLYVINYL CHLORIDE SOLID WALL PIPE (CELL CLASS 12454-B), ASTM D-3212
- 707.45 POLYVINYL CHLORIDE SOLID WALL PIPE (>15") (PS115, CELL CLASS 12454-B), ASTM D-3212

ALL PIPES AND FITTINGS SHALL BE APPROPRIATELY MARKED IN ACCORDANCE TO APPLICABLE ASTM STANDARDS FOR THE PURPOSE OF IDENTIFICATION AND SHALL BE SUBJECT TO INSPECTION AND REJECTION AT THE FACTORY, PROJECT OR OTHER POINT OF DELIVERY.

FOR STORM SEWERS ON PRIVATE PROJECTS, OUTSIDE OF THE RIGHT OF WAY, THE FOLLOWING TABLE OF PIPES PERMISSIBLE FOR CONDUITS TYPE A, B, AND C (LESS THAN OR EQUAL TO 30 INCH SIZE) ARE AS FOLLOWS:

- 707.21 OR 707.22 ALUMINIZED CMP
- 707.25 CORRUGATED ALUMINUM ALLOY PIPE
- 707.12 CORRUGATED STEEL SPIRAL RIB PIPE
- 707.24 CORRUGATED ALUMINUM SPIRAL RIB PIPE
- 707.33 CORRUGATED POLYETHYLENE SMOOTH LINED PIPE
- 707.41 POLYVINYL CHLORIDE PLASTIC PIPE
- 707.42 POLYVINYL CHLORIDE CORRUGATED SMOOTH INTERIOR PIPE
- 707.43 POLYVINYL CHLORIDE PROFILE WALL PIPE

PIPE MATERIALS FOR PRIVATE UNDERGROUND DETENTION SYSTEMS OTHER THAN SPECIFIED ABOVE, WILL BE ALLOWED WITH THE INCLUSION OF PE STAMPED AND SIGNED SHOP DRAWINGS AND AN AS-BUILT CERTIFICATION OF THE INSTALLATION METHOD.

BEDDING AND INITIAL BACKFILL MATERIALS SHALL BE DURABLE GRAVEL, SAND, SLAG, OR CRUSHED STONE MEETING THE REQUIREMENTS OF 703.11 TYPE 1, TYPE 2, TYPE 3, TABLE 6 OR TABLE 7.

BACKFILL MATERIALS SHALL BE THE SAME MATERIAL USED IN
BEDDING AND INITIAL BACKFILL EXCLUDING 703.11 TYPE 3. SUITABLE
BACKFILL MATERIAL MAY BE USED IN AREAS OUTSIDE THE
PAVEMENT AREA AS DEFINED IN 203.02.R.

		TABLE 6		
	TOTAL	PASSING PER	RCENT	
	GRADING	GRADING	GRADING	GRADING
SIEVE	AA	BB	CC	DD
3 INCH	100	100	100	100
2 INCH	90-100	95-100	90-100	90-100
1 INCH	70-100		70-100	
NO. 10	25-75	40-100	25-75	40-100
NO. 200	0-10	0-10	5-15	5-15

#### TEMPORARY SEDIMENT AND EROSION CONTROL, AS PER PLAN

THE CONTRACTOR SHALL CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 832 UNLESS SPECIFIED BELOW.

832.04 REQUIREMENTS AND PROVISIONS.

ADDED PRIOR TO FIRST SENTENCE, "WITHIN THE CITY OF TOLEDO JURISDICTION A STORMWATER POLLUTION PREVENTION PLAN (SWP3) IS REQUIRED FOR ALL SITES THAT DISTURB 2,500 SQ. FT. OR GREATER, REGARDLESS OF THE SCENARIOS LISTED BELOW".

#### PIPE COLLARS

CONNECTIONS BETWEEN EXISTING AND PROPOSED PIPE SECTIONS SHALL BE SEALED BY MEANS OF A CONCRETE COLLAR, AS PER STANDARD DRAWING DM-1.1. FERNCO FITTINGS WILL BE AN ACCEPTABLE ALTERNATIVE TO THE CONCRETE COLLARS FOR CONDUIT 24" DIAMETER AND SMALLER. PAYMENT FOR ALL WORK DESCRIBE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT 611 CONDUIT ITEMS.

#### MANUFACTURED WATER QUALITY STRUCTURE, AS PER PLAN

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY
STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE
BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE
SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE
CONTRACT UNIT PRICE FOR ITEM 895, MANUFACTURED WATER
QUALITY STRUCTURE. TYPE 4.

THE MANUFACTURED STRUCTURE SHALL BE A PRECAST CONCRETE WATER QUALITY STRUCTURE.

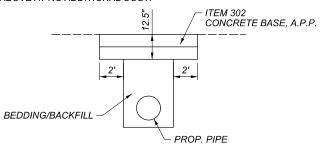
### PAVEMENT RESTORATION FOR PIPE INSTALLATIONS AND/OR REMOVALS

THE FOLLOWING QUANTITY HAS BEEN PROVIDED FOR PAVEMENT RESTORATION FOLLOWING INSTALLATION AND/OR REMOVAL OF PIPES.

ITEM 202 - PAVEMENT REMOVED 581 SY ITEM 302 - ASPHALT CONCRETE BASE, PG64-22, (449), AS PER PLAN 202 CU. YDS.

THE ABOVE QUANTITY IS BASED ON A 302 THICKNESS OF 12.5 INCHES, A VARIABLE DEPTH OF BEDDING/BACKFILL TO ENCASE PIPE AND BRING UP TO BOTTOM OF 302 PLACEMENT, AND A PAVEMENT RESTORATION WIDTH THAT INCLUDES THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH. ITEM 302 SHALL BE PLACED IN 2 EQUAL, COMPACTED LIFTS.

PROVIDE ANY MATERIALS USED OUTSIDE THE LIMITS STATED
ABOVE AT NO ADDITIONAL COST



### PAVEMENT RESORATION FOR SEWER CROSS-OVERS (NOT TO SCALE)

#### **CONTINGENCY ITEMS**

THE FOLLOWING ITEMS ARE ESTIMATED AND INCLUDED IN THE GENERAL SUMMARY FOR USE ON THE PROJECT AS DIRECTED BY THE ENGINEER.

ITEM 304 - AGGREGATE BASE 35 CY

ITEM 452 - 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS 35 SY

ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN 300 FT

ITEM 611 - MANHOLE, NO. 3 1 EA

ITEM 625 - LIGHT POLE REMOVED 4 EA

ITEM 630 - GROUND MOUNTED SUPPORT, NO. 3 POST 150 FT

ITEM 630 - SIGN, FLAT SHEET 125 SF

ITEM 632 - REMOVAL OF MISCELLANEOUS TRAFFIC SIGNAL ITEM, REDFLEX POLES WITH CAMERAS 2 EA

ITEM SPECIAL - WATER WORK, MISC.: DIRECTIONAL BORE FOR RETAP 5 EA

### ITEM 630 - REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN

THIS ITEM CONSISTS OF REMOVING AND DISPOSING OF THE EXISTING TACO BELL SIGN WITHIN THE PROPOSED RIGHT OF WAY. IN ADDITION, THE CONTRACTOR SHALL HIRE A THIRD PARTY UTILITY LOCATING SERVICE TO LOCATE THE EXISTING POWER CABLE. THE CONTRACTOR IS RESPONSIBLE FOR DE-ENERGIZING, DISCONNECTING AT THE POWER SOURCE AND REMOVAL.

ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS
NECESSARY TO PERFORM THIS WORK SHALL BE INCLUDED IN THE
BID ITEM.

DESIGN AGE



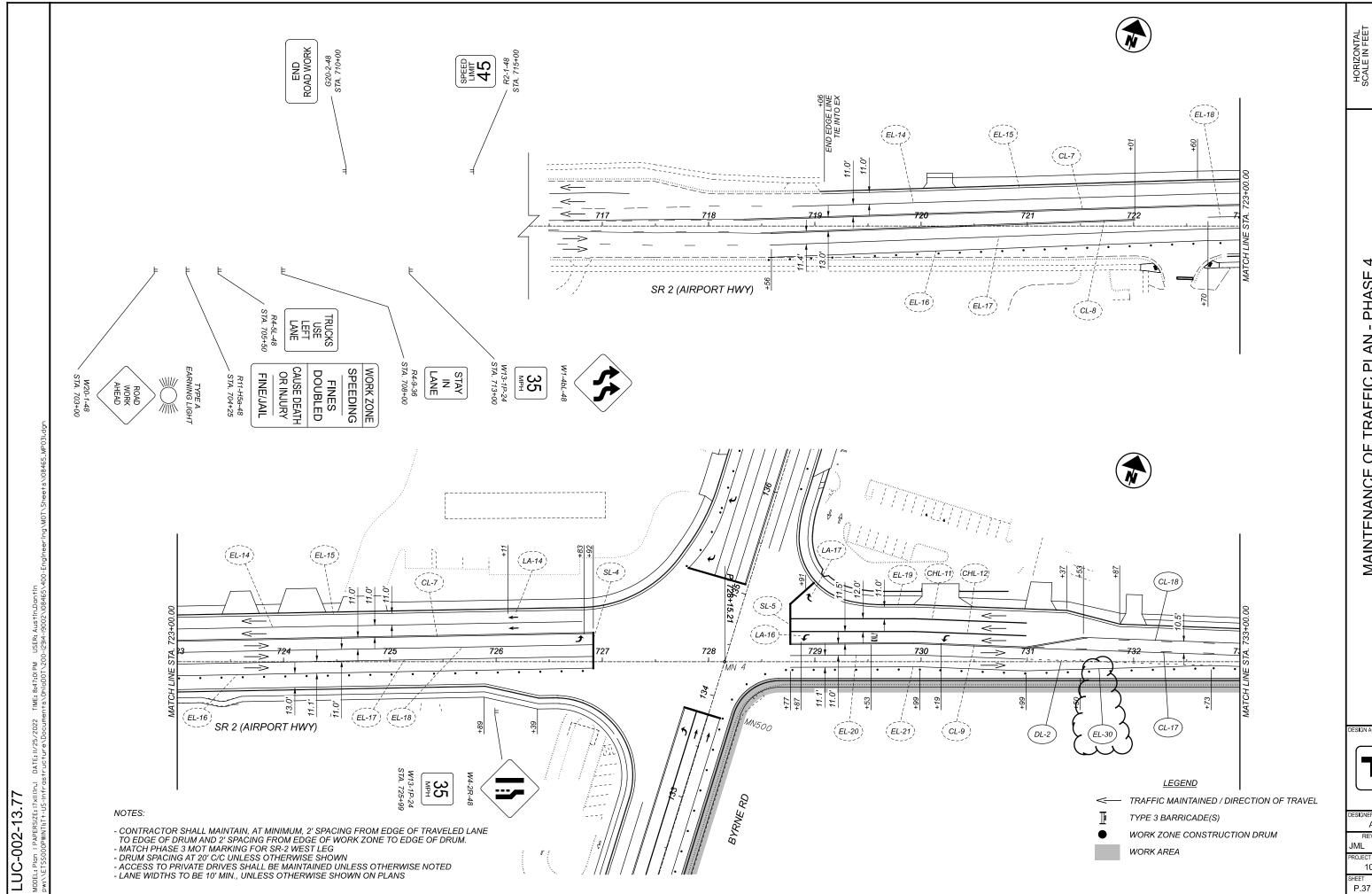
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SHEET NO.	REF NO.	STA	TION TO ST	FATION	SIDE	ORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	ORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I, DOUBLE SOLID	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I, SOLID, DASHED	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	ZONE DOTTED LINE, CLASS I	WORK ZONE TRANSVERSE/DIAGONAL	ZONE STOP LINE, CLASS I	WORK ZONE ARROW, CLASS I	WORK ZONE LANE LINE, CLASS III, 4", 642 PAINT	WORK ZONE CENTER LINE, CLASS III. 642 PAINT	RK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	RK ZONE TRANSVERSE/DIAGONAL. LINE, CLASS III, 642 PAINT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	WORK ZONE CROSSWALK LINE, CLASS III, 642 PAINT	ZONE ARROW, CLASS III, 642 PAINT	WORK ZONE ISLAND MARKING, CLASS III, 642 PAINT	
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27	CHL-3	135+06	TO	136+33	LT				124														4
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29	SL-3	728+89			LT							41											
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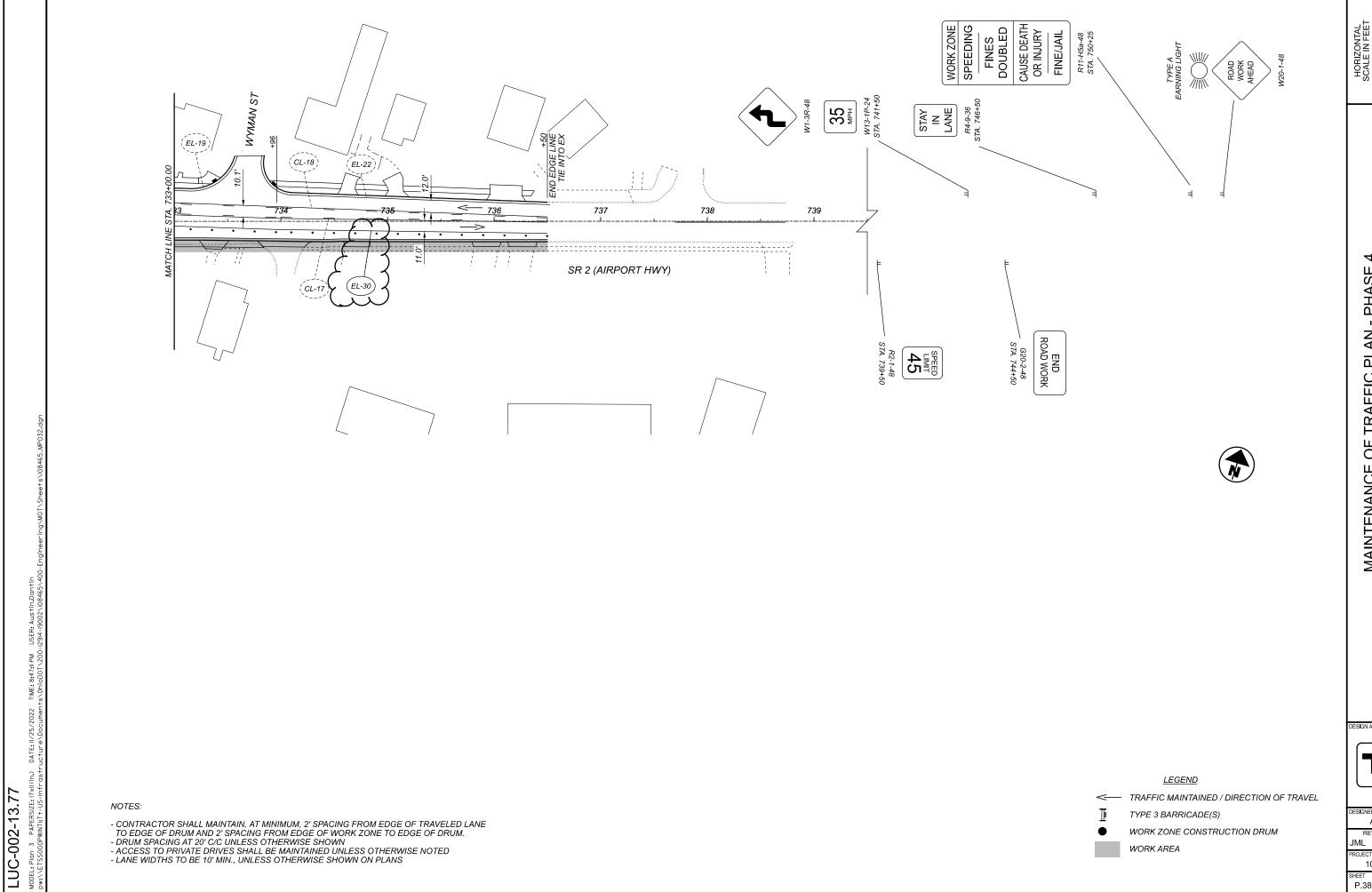
MAINTENANCE OF TRAFFIC PLAN - PHASE STA. 713+00.00 TO STA. 733+00.00

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MAINTENANCE OF TRAFFIC PLAN - PHASE STA. 733+00.00 TO STA. 743+00.00



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SHEET NO.	REF NO.	STA	TION TO ST	TATION	SIDE	WALK REMOVED	CURB REMOVED	CURB AND GUTTER REMOVED	GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED	SUBGRADE COMPACTION	AGGREGATE BASE	4" CONCRETE WALK	CURB RAMP	BINATION CURB AND GUTTE TYPE 2	CURB, TYPE 6	CONCRETE MEDIAN	LIGHT POLE REMOVED	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN		
						05	FT			1	}	CV	0.5	0.5	COM		0)/				
63-64	C-12	AIRPOF 733+83.93	RT HWY (SF	R-2) CONT. 736+50.00	LT	SF	FT	FT	FT >	EACH	SY	CY	SF	SF	FT 289	FT	SY	EACH	EACH 🕽		=
63	W-12	731+22.56	ТО	731+92.69	LT				(				589						1		
63	W-13 W-14	732+07.68 733+18.01	TO TO	733+18.01 733+43.67	LT LT	181			$\longrightarrow$	<del> </del>	$\langle \cdot \cdot \cdot \rangle$		570	166				<del></del>	+		+
63	W-15	733+46.45	ТО	733+83.31	RT				>		Υ								1		1
63 63	W-16 W-17	733+89.56 733+99.68	TO TO	733+99.68 734+57.65	LT LT				$\longrightarrow$	•	<del>\</del>		283	42				$\longrightarrow$			-
63	W-18	734+70.46	ТО	734+99.48	LT				<b>\</b>	1	)		156					>	-		]
63-64	W-19	735+14.96	ТО	735+96.22	LT	1			<b> </b>	1 -	)		407					$\longrightarrow$	+		$\dashv$
63	W-20	736+26.39	ТО	736+37.59	LT						)		49					$\succ$	1		$\exists$
			BYRNE R	RD		1					$\bigcirc$							$\longrightarrow$	- 1		$\dashv$
65	R-25	124+21.11	ТО	124+54.72	LT	188												7	1		コ
65-67 65	R-26 R-27	124+21.11 124+72.32	TO TO	133+39.39 125+53.71	LT LT	469	918		(		<b>)</b>							<u> </u>	1		$\dashv$
65-66	R-28	125+74.27	ТО	127+33.99	LT	913					2								)		コ
65-67	C-13	124+21.11	ТО	132+84.42	LT						}				863				2		
65	W-21	124+21.11	ТО	124+52.74	LT	1				-	<b>├</b>		180.00								4
65	W-21 W-22	124+74.64	ТО	125+52.10	LT					-	$\langle$		444					(	1		
65-66	W-23	125+75.92	ТО	127+35.19	LT				<u> </u>		{		923					ς	1		7
66	R-29	127+58.82	ТО	128+15.83	LT	281			$\rightarrow$		<b>f</b>							\ \	1		_
66-67 66	R-30 R-31	128+51.07 128+29.62	TO TO	133+81.70 128+51.78	RT LT	113	531		<b>\</b>	-	1										$\exists$
66	R-31	128+68.94	ТО	129+37.06	LT	396			$\rightarrow$	-	1							<b>&gt;</b>	$\vdash$		-
66-67	R-33	131+52.05	ТО	133+81.71	RT	2232			(	-	)							$\rightarrow$	- {		7
66-67	C-14	128+50.07	то	133+89.06	RT				(						538			$\rightarrow$	1		1
66	W-42	127+72.92	ТО	127+91.14	RT	151	14		(	-	<b>}</b>			151					)		$\dashv$
66	W-43	128+23.50	ТО	128+39.06	RT	118	12		(		₹			118					)		コ
66	W-24 W-25	127+54.68 128+26.46	TO TO	128+19.06 128+52.13	LT LT	1			(	<del>,</del>	$\leftarrow$		308 114								$\dashv$
66	W-26	128+68.25	ТО	129+37.51	LT				(	-	$\langle$		332						1		7
66-67	W-27 W-28	129+57.26 131+52.06	TO TO	132+84.42 133+89.06	LT RT	1			<del>                                     </del>	+ -	160.48	8.92	1628 1357	121				(	+		$\dashv$
1084		404100.70		405.77.05		454				-	5							$\sim$			7
67	R-34 R-35	134+83.78 134+99.54	TO TO	135+77.25 136+78.33	LT LT	454		180.83		+	<b>5</b>							<del></del>	+		$\dashv$
67	R-36	135+39.34	ТО	136+37.39	RT	487	400		(	-	1							$\rightarrow$			7
67-68 67-68	R-37 R-38	135+54.44 136+17.84	TO TO	140+50.00 137+90.93	RT LT	916	496		(	-	)							>	+		
67 67-69	R-39 R-40	136+63.42 136+78.33	TO TO	136+95.00 144+08.75	RT LT	1533 730			(		)							}			DESIG
nme						7.50			(		₹							$\longrightarrow$	1		[ւ
66-67 67-69	C-15 C-16	135+35.64 135+90.54	TO TO	138+98.28 144+08.75	LT & RT				(		}				820		390		7		<b>∄</b>  '
67-68	C-16	135+97,98	TO	140+50,00	RT				(	_	₹				452				1		$\exists$
67	W-29	135+69.35	ТО	136+32.23	RT					-	₹		475.00								DESIG
67-68	W-30	136+18.14	ТО	137+95.44	LT					-	₹		1417								$\downarrow$
67	W-31	136+66.72	ТО	136+95.00	RT					<del>-</del>			166.00					$\overline{}$			AJL
	-	TOTALS CARRIED FR				7898	1476	1924	436	1 -	342	19	12213	1221	2842	280	457	2	1 2		PROJE
		TOTALS THE				9162 17060	1971 3447	181 2105	0 436 <b>(</b>	0	161 503	9 28	9398 21611	598 1819	2962 5804	0 280	390 847	0 (	0		SHEET P.

	ROADWAY SUBSUMMARY	DESIGN AGENCY  DESIGNER KSK	REVIEWER AJL 11/14/2 PROJECT ID 108465 HEET _TOTAL
			PF
REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL, AS PER PLAN PLAN	EACH		1 2
LIGHT POLE REMOVED	EACH		2
CONCRETE MEDIAN 69	SY		847
CURB, TYPE 6	FT		280
COMBINATION CURB AND GUTTER, 99 TYPE 2	FT		5804
CURB RAMP 809	SF		1819
4" CONCRETE WALK 89	99 336 963 135		21611 2077
AGGREGATE BASE 626	CY		28
SUBGRADE COMPACTION 67			503
ANCHOR ASSEMBLY REMOVED 02	EACH		1 0
GUARDRAIL REMOVED 202	FT		436 0
CURB AND GUTTER REMOVED 8	FT		2105 0
CURB REMOVED 202	FT		3447
WALK REMOVED 200	277.00 240 93		17060 2105
SIDE			
TION	17.)  138+44.62  139+25.90  141+51.92  142+11.59  138+47.07  139+35.94  141+54.06  142+10.60  142+86.57  143+62.84  144+08.75  142+86.04  143+63.18  143+93.20		S SHEET
ON TO STA	NE RD (COI		
STATIC	BYRN  138+26.75  138+72.99  139+60.31  141+84.06  138+25.53  138+67.74  139+60.93  141+82.13  142+28.68  143+13.26  143+90.20  142+27.12  143+13.39  143+89.72		OTALS CARRIED FROM TOTALS THIS
. REF NO.	R-41 R-42 R-43 R-44 W-32 W-33 W-34 W-35 R-45 R-46 R-47 W-36 W-37 W-38		
EET NO.	68 68 68 68 68 68 68 69 69 69 69		

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### ITEM SPECIAL - HORIZONTAL CONCRETE WATER MAIN OFFSET (16" AND LARGER)

AT EACH OFFSET LOCATION, PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXPOSE CONCRETE WATER MAIN TO LOCATE NEAREST JOINT, CLEAN AROUND THE FULL CIRCUMFERENCE OF APPROXIMATELY 5 FEET OF WATER MAIN AND SHALL TAKE MEASUREMENTS TO VERIFY THE O.D. OF THE CONCRETE WATER MAIN. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING NEAR THE CONCRETE WATER MAIN. CONTRACTOR SHALL NOTIFY THE CITY OF TOLEDO 2 WEEKS PRIOR TO BEGINNING EXCAVATION SO THAT A REPRESENTATIVE OF THE CITY CAN BE PRESENT DURING THE EXCAVATION. CONCRETE WATER MAIN AND OTHER UTILITIES SHALL BE FULLY SUPPORTED AT ALL TIMES DURING THE EXCAVATION. EXCAVATION SHALL BE BACKFILLED, TRENCH SHALL BE PLATED OR PAVED, AND TRAFFIC RESTORED WITHIN 24 HOURS OF MEASUREMENTS BEING TAKEN. ALL COSTS ASSOCIATED WITH THE INFORMATIONAL EXCAVATION SHALL BE INCLUDED IN THE BID ITEM FOR HORIZONTAL CONCRETE WATER MAIN OFFSET (16" AND LARGER)

ENGINEERING RECORDS INDICATE THE EXISTING CONCRETE WATER MAIN IS PRESTRESSED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE (SP-5).

CONTRACTOR SHALL FIELD LOCATE AND PROVIDE JOINT RESTRAINT ON ALL EXISTING CONCRETE WATER MAIN JOINTS WITHIN 40 FEET OF EACH CONNECTION BETWEEN THE EXISTING AND NEW SECTION OF CONCRETE WATER MAIN. JOINT RESTRAINT SHALL BE IN ACCORDANCE WITH CONCRETE PIPE MANUFACTURER'S RECOMMENDATIONS.

ALL JOINTS WITHIN NEW SECTION OF WATER MAIN SHALL BE RESTRAINED. AFTER THE NEW SECTION OF WATER MAIN HAS PASSED PRESSURE AND BACTERIOLOGICAL TESTING, THE CONTRACTOR SHALL CONNECT THE NEW WATER MAIN TO THE EXISTING WATER MAIN USING RESTRAINED TRANSITION COUPLINGS, AND COORDINATE WITH THE CITY OF TOLEDO DIVISION OF WATER DISTRIBUTION TO ISSUE A BOIL ADVISORY. THE CONTRACTOR SHALL NOTIFY THE CITY OF TOLEDO THREE DAYS PRIOR TO CONNECTIONS SO THAT A REPRESENTATIVE OF THE CITY CAN BE PRESENT DURING THE CONNECTIONS.

ALL MATERIALS NEEDED TO COMPLETE THE CONCRETE WATER MAIN OFFSET AND ADDITIONAL JOINT RESTRAINT SHALL BE ON SITE PRIOR TO STARTING CONSTRUCTION OF THE OFFSET.

WATER MAIN OFFSETS WILL BE PAID FOR UNDER THE APPROPRIATE DUCTILE IRON PIPE ITEM, FOR THE NUMBER OF FEET INSTALLED, AND ITEM SPECIAL HORIZONTAL CONCRETE WATER MAIN OFFSET (16"AND LARGER), FOR EACH OFFSET LOCATION, WHICH SHALL INCLUDE THE COST OF MOBILIZATION, ADDITIONAL MATERIALS OR LABOR NEEDED TO COMPLETE THE WATER MAIN OFFSET, REMOVAL OF ABANDONED WATER MAIN AS NEEDED, RESTORATION, INFORMATIONAL EXCAVATION, AND JOINT RESTRAINT.

### ITEM SPECIAL - VERTICAL CONCRETE WATER MAIN OFFSET (16" AND LARGER)

AT EACH OFFSET LOCATION, PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXPOSE CONCRETE WATER MAIN TO LOCATE NEAREST JOINT, CLEAN AROUND THE FULL CIRCUMFERENCE OF APPROXIMATELY 5 FEET OF WATER MAIN AND SHALL TAKE MEASUREMENTS TO VERIFY THE O.D. OF THE CONCRETE WATER MAIN. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING NEAR THE CONCRETE WATER MAIN. CONTRACTOR SHALL NOTIFY THE CITY OF TOLEDO 2 WEEKS PRIOR TO BEGINNING EXCAVATION SO THAT A REPRESENTATIVE OF THE CITY CAN BE PRESENT DURING THE EXCAVATION. CONCRETE WATER MAIN AND OTHER UTILITIES SHALL BE FULLY SUPPORTED AT ALL TIMES DURING THE EXCAVATION. EXCAVATION SHALL BE BACKFILLED, TRENCH SHALL BE PLATED OR PAVED, AND TRAFFIC RESTORED WITHIN 24 HOURS OF MEASUREMENTS BEING TAKEN. ALL COSTS ASSOCIATED WITH THE INFORMATIONAL EXCAVATION SHALL BE INCLUDED IN THE BID ITEM FOR VERTICAL CONCRETE WATER MAIN OFFSET (16" AND

ENGINEERING RECORDS INDICATE THE EXISTING CONCRETE WATER MAIN IS PRESTRESSED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE (SP-5).

CONTRACTOR SHALL FIELD LOCATE AND PROVIDE JOINT RESTRAINT ON ALL EXISTING CONCRETE WATER MAIN JOINTS WITHIN 40 FEET OF EACH CONNECTION BETWEEN THE EXISTING AND NEW SECTION OF CONCRETE WATER MAIN. JOINT RESTRAINT SHALL BE IN ACCORDANCE WITH CONCRETE PIPE MANUFACTURER'S RECOMMENDATIONS.

ALL JOINTS WITHIN NEW SECTION OF WATER MAIN SHALL BE RESTRAINED. THE CONTRACTOR SHALL CUT AND PLACE A TEMPORARY PLUG IN THE EXISTING WATER MAIN ON EITHER SIDE OF THE PROPOSED PIPELINE, REMOVE SECTION OF EXISTING WATER MAIN IF NECESSARY, AND CONSTRUCT THE NEW SECTION OF WATER MAIN, LEAVING SPACE FOR CONNECTIONS. AFTER THE NEW SECTION OF WATER MAIN HAS PASSED PRESSURE AND BACTERIOLOGICAL TESTING, THE CONTRACTOR SHALL CONNECT THE NEW WATER MAIN TO THE EXISTING WATER MAIN ON EACH SIDE OF THE PROPOSED PIPELINE USING RESTRAINED TRANSITION COUPLINGS, AND COORDINATE WITH THE CITY OF TOLEDO DIVISION OF WATER DISTRIBUTION TO ISSUE A BOIL ADVISORY. THE CONTRACTOR SHALL NOTIFY THE CITY OF TOLEDO THREE DAYS PRIOR TO CONNECTIONS SO THAT A REPRESENTATIVE OF THE CITY CAN BE PRESENT DURING THE CONNECTIONS.

ALL MATERIALS NEEDED TO COMPLETE THE CONCRETE WATER MAIN OFFSET AND ADDITIONAL JOINT RESTRAINT SHALL BE ON SITE PRIOR TO STARTING CONSTRUCTION OF THE OFFSET.

WATER MAIN OFFSETS WILL BE PAID FOR UNDER THE APPROPRIATE DUCTILE IRON PIPE ITEM, FOR THE NUMBER OF FEET INSTALLED, AND ITEM SPECIAL VERTICAL CONCRETE WATER MAIN OFFSET (16"AND LARGER), FOR EACH OFFSET LOCATION, WHICH SHALL INCLUDE THE COST OF MOBILIZATION, ADDITIONAL MATERIALS OR LABOR NEEDED TO COMPLETE THE WATER MAIN OFFSET, REMOVAL OF ABANDONED WATER MAIN AS NEEDED, RESTORATION, INFORMATIONAL EXCAVATION, AND JOINT RESTRAINT.

#### ITEM SPECIAL - WATER MAIN OFFSET (12" AND SMALLER)

CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF EXISTING WATER MAIN PRIOR TO STARTING CONSTRUCTION OF PROPOSED PIPELINE. CONTRACTOR SHALL COORDINATE WITH THE CITY OF TOLEDO DIVISION OF WATER DISTRIBUTION PRIOR TO OFFSETTING THE EXISTING WATER MAIN.

ALL MATERIALS NEEDED TO COMPLETE THE WATER MAIN OFFSET SHALL BE ON SITE PRIOR TO STARTING CONSTRUCTION.

THE CITY WILL CUT AND PLACE A TEMPORARY PLUG IN THE EXISTING WATER MAIN ON EITHER SIDE OF THE PROPOSED PIPELINE CONTRACTOR SHALL REMOVE SECTION OF EXISTING WATER MAIN IF NECESSARY, AND CONSTRUCT NEW SECTION OF WATER MAIN. ALL PIPE FOR THE OFFSET OF THE WATER MAIN SHALL BE CONSTRUCTED, PRESSURE TESTED, AND SAMPLED FOR BACTERIA BEFORE THE CITY WILL CONNECT TO THE EXISTING WATER MAIN. ALL JOINTS WITHIN NEW SECTION OF WATER MAIN SHALL BE RESTRAINED. CONTRACTOR SHALL TERMINATE WATER MAIN APPROXIMATELY 5 FEET FROM EXISTING WATER MAIN. CITY WILL CONNECT TO EXISTING WATER MAIN AFTER SAMPLES AND PRESSURE TESTS HAVE PASSED. CONTRACTOR SHALL PERFORM EXCAVATION, BACKFILL AND RESTORATION FOR THE CONNECTION AND ASSIST CITY WITH THE CONNECTION. COORDINATE WITH THE CITY OF TOLEDO DIVISION OF WATER DISTRIBUTION TO ISSUE A BOIL ADVISORY.

WATER MAIN OFFSETS WILL PAID FOR UNDER 1) THE APPROPRIATE PIPE ITEM, FOR THE NUMBER OF FEET INSTALLED, AND 2) ITEM SPECIAL - WATER MAIN OFFSET (12" AND SMALLER), FOR EACH OFFSET LOCATION, WHICH SHALL INCLUDE THE COST OF MOBILIZATION, ADDITIONAL MATERIAL OR LABOR NEEDED TO COMPLETE THE WATER MAIN OFFSET, REMOVAL OF ABANDONED WATER MAIN AS NEEDED AND RESTORATION.

#### **QUANTITIES**

ITEM 638 - 8" DIP - 121 FT

ITEM SPECIAL - WATER MAIN OFFSET (12" AND SMALLER) - 4 EACH

# PERMIT FEES

THE FOLLOWING TABLE LISTS THE WATER WORK ITEMS TO BE
PERFORMED BY THE CITY OF TOLEDO DIVISION OF WATER
DISTRIBUTION FOR THIS PROJECT. THE CITY OF TOLEDO WATER
PERMIT FEES FOR THIS WORK ARE AT THE CONTRACTOR'S EXPENSE
AND INCLUDED IN LUMP SUM BID ITEM SPECIAL: CITY OF TOLEDO
WATER PERMITTING FEES

THE FOLLOWING TABLE IS FOR INFORMATIONAL PURPOSES ONLY AND NOT CARRIED TO THE GENERAL SUMMARY:

QTY	UNIT	DESCRIPTION	UNIT FEE	TOTAL FEE
8	EACH	CONNECTION TO 8" WATER MAIN	\$3,000	\$24,000
1	EACH	RETAP 1" WATER SERVICE	\$1,250	\$1,250
2	EACH	RELOCATE EXISTING HYDRANT (EXTENTION)	\$1,800	\$2,600
4	EACH	REMOVE EXISTING HYDRANT	\$2,600	\$10,400
5	EACH	INSTALL NEW HYDRANT (TS&V + HYDRANT)	\$5,100	\$25,500
2	EACH	CONNECTION TO 12" WATER MAIN	\$3,500	\$7,000
TOTAL	\$			\$70,750

THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM SPECIAL - CITY OF TOLEDO WATER PERMITTING FEES LS

DESIGN AGEN



AMD REVIEWER AJL 11/14/22

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#### UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

**ELECTRIC** TOLEDO EDISON 6099 ANGOLA RD HOLLAND, OH 43528 Randy Swope 419-249-5218

e-mail: rrswope@firstenergycorp.com

COLUMBIA GAS 2901 E. MANHATTAN BLVD TOLEDO, OH 43611 CLINT WELLS 419-309-5552 e-mail: clintwells@NiSource.com

CABLE BUCKEYE BROADBAND 2700 OREGON RD NORTHWOOD, OH 43619 Michael Sheahan 419-724-3713 e-mail: msheahan@telesystems.us

CHARTER TELECOMUNICATIONS 3760 INTERCHANGE DR COLUMBUS, OH 43204 SEAN MILLER 614-255-6340 e-mail: sean.miller1@charter.com

**TELEPHONE** 130 N. ERIE ST, ROOM 714 TOLEDO, OH 43624 Shanda Nelsor mobile: 419-377-4368 e-mail: sn2763@att.com

SANITARY SEWER & WATER LUCAS COUNTY SANITARY ENGINEER 1111 S. MCCORD RD HOLLAND, OH 43528 Steve Lange phone: 419-213-2926 e-mail: slange@co.lucas.oh.us

#### **CLEARING AND GRUBBING**

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

#### **NOTIFICATIONS**

REQUESTS FOR A NOTICE OF COMMENCEMENT DATE BE GIVEN TO JACLYN NOIROT, REALTY SPECIALIST MANAGER, 419-373-7173, JACLYN.NOIROT@DOT.OHIO.GOV AS TO WHEN PARCEL 001, KEYBANK'S TEMPORARY EASEMENT BEGINS ITS 12 MONTH TIMEFRAME. THAT NOTICE OF COMMENCEMENT WILL BE THE DAY THE CONTRACTOR ENTERS THE TEMPORARY EASEMENT ON PARCEL 1, KEYBANK.

				PRIMARY PRO	JECT CONTROL INFOR	MATION		
	MCCOI	RD RD.	GRC	UND	GF	RID		
POINT NO.	STATION	OFFSET	NORTHING	EASTING	NORTHING	EASTING	ELEVATION	DESCRIPTION
2	43+91.53	0.00'	710412.022	1639480.218	710381.980	1639410.887	620.910	MONBOX
50	46+99.21	40.18' LT	710720.469	1639446.458	710690.414	1639377.129	627.640	IPINS
51	49+19.95	103.22' LT	710942.477	1639388.032	710912.413	1639318.705	630.680	IPINS
52	50+81.70	51.65' LT	711103.080	1639442.892	711073.009	1639373.563	631.680	IPINS
53	50+90.60	70.48' RT	711109.529	1639565.173	711079.457	1639495.839	631.920	IPINS
54	54+72.55	50.42' LT	711493.823	1639451.950	711463.735	1639382.621	631.000	IPINS
55	54+31.85	138.09' LT	711454.888	1639363.481	711424.802	1639294.155	630.050	MAGS
56	53+07.09	56.49' RT	711326.253	1639555.530	711296.172	1639486.196	630.870	IPINS
57	57+74.95	37.45' RT	711794.409	1639545.859	711764.308	1639476.526	631.610	IPINS
58	47+82.13	41.77' RT	710801.670	1639530.121	710771.611	1639460.788	628.120	MAGS

				VERTICA	L CONTROL INFORMAT	ION	-	
	МССО	RD RD.	GRO	DUND	G	RID		
POINT NO.	STATION	OFFSET	NORTHING	EASTING	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	45+42.92	15.17' LT	710563,696	1639469.206	710533.648	1639399.876	624.271	BM 221A DISK IN WING WALL
3	46+38.03	52.66' LT	710659.566	1639432.706	710629.513	1639363.377	625.800	BENCH TIE IN POWER POLE
4	58+53.54	31.50' RT	711873.098	1639541.485	711842.994	1639472.152	631.770	CUT "SQUARE" IN SIGN BASE
5	51+05.08	66.25' LT	711126.746	1639428.765	711096.674	1639359.436	632.750	CUT "SQUARE" IN SIGN BASE
6	54+59.41	78.45 LT	711481.249	1639423.664	711451.162	1639354.336	631.370	CUT "SQUARE" IN CURB

#### SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: B

**VERTICAL POSITIONING** 

ORTHOMETRIC HEIGHT DATUM: NAVD88

GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)

ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE

COMBINED SCALE FACTOR: 1.00004229 ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

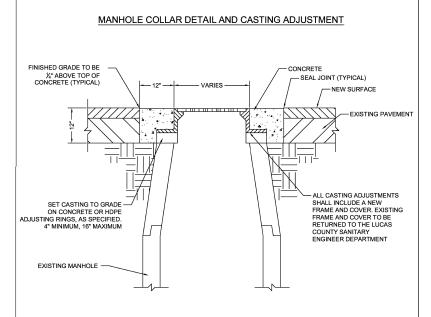
UNITS ARE IN U.S. SURVEY FEET.

#### **WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

#### ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN

THIS ITEM SHALL INCLUDE ADJUSTMENTS OF SANITARY AND WATER LINE MANHOLES AS PER LUCAS COUNTY ENGINEER DETAIL SHOWN BELOW:



STEP 1. THE ASPHALT CONCRETE INCLUDING INTERMEDIATE AND SURFACE COURSES SHALL BE LAID CONTINUOUSLY OVER THE CASTING. SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR, THE ENGINEER AND THE INSPECTOR FOR THE MARKING AND RE-ESTABLISHMENT OF THE LOCATIONS OF THE

STEP 2. AFTER COMPLETELY PLACING AND COMPACTING THE ASPHALT CONCRETE, THE NECESSARY WIDTH OF THE STREET SHALL BE BARRICADED OFF. THE NEW ASPHALT CONCRETE SURFACE AND THE OLD PAVEMENT SHALL BE CUT AWAY WITH A CIRCULAR CORING DEVICE (MR. MANHOLE OR EQUIVALENT) AT THE REQUIRED DIAMETER AROUND EACH CASTING DOWN TO THE EXISTING BEARING OF THE FLANGE OF THE CASTINGS AS

STEP 3. THE CASTING SHALL THEN BE RAISED TO X\* BELOW THE NEW ASPHALT CONCRETE SURFACE AND SET TO GRADE. THE EXCAVATED AREA AROUND THE CASTING SHALL THEN BE FILLED AND COMPACTED TO X BELOW THE NEW SURFACE WITH HIGH-RAFLY STRENGTH CONCRETE AS SPECIFIED BY THE ENGINEER. THE CONCRETE SHALL BE ALLOWED TO CURE AT LEAST TWENTY-FOUR (24) HOURS BEFORE THE STREET IS OPENED TO TRAFFIC

NOTE: CURB INLET CATCH BASIN CASTINGS ARE NOT INCLUDED IN THE ABOVE METHOD

MANHOLE COLLAR CASTING ADJUST		
LUCAS COUNTY	STD	DW
		-

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#### SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL 2 CY 659, SEEDING AND MULCHING 13 SY 659, REPAIR SEEDING AND MULCHING 1 SY 659, COMMERCIAL FERTILIZER 0.01 TON 0.01 ACRES 659. LIME 659, WATER 1 MGAL

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

#### MAINTAINING EXISTING SUBSURFACE DRAINAGE

THE CONTRACTOR SHALL MAINTAIN ALL EXISITNG UNDERDRAINS WITHIN THE CURB RAMP WORK LIMITS. IF THE EXISTING UNDERDRAINS ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE THE DAMAGED AREA TO THE APPROVAL OF THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 605, 6" UNCLASSIFIED PIPE UNDERDRAINS 85 FT

#### **MONUMENT ASSEMBLIES**

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 2.

623, MONUMENT ASSEMBLY

#### ITEM 609 - CONCRETE MEDIAN, AS PER PLAN

THIS ITEM INCLUDES USING A MODERATE SET CONCRETE MIX DESIGN TO ALLOW FOR FASTER STRENGTH GAIN PRIOR TO REOPENING LANES TO TRAFFIC.





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# MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- 1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST. MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- 2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES INSTALLED BY THE CONTRACTOR THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK, ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD. AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION, THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION. AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE VILLAGE OF HOLLAND FOR POLICE SERVICES AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL OCCUR ON THE WEEKEND DURING A LOW TRAFFIC VOLUME PERIOD. ANY SIGNALIZED INTERSECTION. WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS, EXCEPT FOR THE FOLLOWING INTERSECTIONS WHICH SHALL BE PROTECTED BY OFF-DUTY VILLAGE OF HOLLAND POLICE, HIRED BY THE CONTRACTOR:

#### 1. SR 2 & MCCORD RD

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

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

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

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

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

#### ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS

ITEM	NOTICE OF CLOSURE SIG	N TIME TABLE SIGN DISPLAYED
	OF CLOSURE	TO PUBLIC
RAMP &	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSUR	ES <= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

#### PLACEMENT OF FINAL SURFACE COURSE

WORK ZONE MARKINGS SHALL NOT BE PLACED ON THE FINAL SURFACE COURSE UNLESS THEY WILL ADEQUATELY COVERED BY THE PERMANENT MARKINGS.

#### **CONTRACTOR STORAGE**

ALL MATERIALS AND EQUIPMENT SHALL BE STORED WITHIN THE EXISTING RIGHT OF WAY UNLESS OTHERWISE IDENTIFIED IN THE PLANS OR PROPOSAL MATERIALS AND FOUIPMENT SHALL NOT BE STORED WITHIN TEMPORARY RIGHT OF WAY.

#### **SEQUENCE OF CONSTRUCTION**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING THE WORK SO THE THAT THE REQUIREMENTS OF THESE PLANS ARE MET. THE CONTRACTOR SHALL PROVIDE ODOT WITH A SEQUENCE OF CONSTRUCTION IN WRITING FOURTEEN DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOT START WORK UNTIL THE SEQUENCE OF CONSTRUCTION HAS BEEN APPROVED.

#### DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES

ITEM 616, WATER

#### PEDESTRIAN ACCESS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PEDESTRIAN ACCESS AT ALL TIME THROUGHOUT THE PROJECT AREA. A MINIMUM OF THREE CROSSINGS SHALL BE MAINTAINED AT ALL TIMES FOR THE SR 2 & MCCORD RD AND THE CENTERS DR & MCCORD RD INTERSECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING THE CONSTRUCTION OF THE PROPOSED CURB RAMPS AND WALK SO THAT PEDESTRIAN ACCESS IS MAINTAINED. DURING CONSTRUCTION WHEN PUSHBUTTONS ARE NOT ACCESSIBLE, PLACE PEDESTRIAN SIGNALS ON RECALL. THE CONTRACTOR MAY INSTALL TEMPORARY SURFACES AND CURB OPENINGS IF NEEDED TO MAINTAIN PEDESTRIAN ACCESS, ALL TEMPORARY SURFACES AND CURB OPENINGS SHALL BE AT THE APPROVAL OF THE ENGINEER. ALL WORK, MATERIALS AND INCIDENTALS NECESSARY FOR MAINTAINING PEDESTRIAN ACCESS NOT SEPARATELY ITEMIZED SHALL BE INCLUDED IN THE LUMP SUM COST FOR ITEM 614, MAINTAINING TRAFFIC

#### ITEM 690 - SPECIAL - TEMPORARY RAMP

THIS ITEM INCLUDES MATERIALS AND LABOR TO INSTALL TEMPORARY PORTABLE PROPRIETARY DEVICES THAT PROVIDE ACCESS FOR WHEELCHAIRS FROM PAVEMENT UP TO THE WALKWAY AT THE APPROVAL OF THE ENGINEER.

PAYMENT FOR ITEM 690 SPECIAL - TEMPORARY RAMP SHALL BE AT THE CONTRACT UNIT BID PRICE PER EACH, PAYMENT FOR THIS ITEM SHALL INCLUDE ALL WORK, MATERIALS, LABOR AND INCIDENTALS NECESSARY TO INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE THE TEMPORARY RAMP. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 690, SPECIAL - TEMPORARY RAMP

2 EACH

#### ITEM 608 - WALKWAY, MISC.: TEMPORARY WALK

THIS ITEM SHALL PROVIDE A FIRM, STABLE AND CONTINUOUS SURFACE FOR SHORT-TERM PEDESTRIAN ACCESS. A SURFACE FINISH THAT IS SOMEWHAT ROUGH IS DESIRABLE TO INCREASE SKID RESISTANCE. THE TEMPORARY WALK SHOULD BE EASILY REMOVABLE IN ORDER TO RESTORE THE SPACE TO ITS PREVIOUS USE. ALTERNATIVE OPTIONS TO CONSIDER ARE COMPACTED DENSE-GRADE AGGREGATE. PROPRIETARY PEDESTRIAN MATTING SYSTEMS OR ANY MATERIAL THAT SATISFIES THE REQUIREMENTS AS OUTLINED ABOVE AND APPROVED BY THE PROJECT ENGINEER.

PAYMENT FOR ITEM 608 WAI KWAY MISC : TEMPORARY WAI K SHALL BE AT THE CONTRACT UNIT BID PRICE PER SQUARE FOOT. PAYMENT FOR THIS ITEM SHALL INCLUDE ALL WORK, MATERIALS, LABOR AND INCIDENTALS NECESSARY TO INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE THE TEMPORARY WALK. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 608, WALKWAY MISC.: TEMPORARY WALK 326 SF

#### ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAY)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAY: FOURTH OF JULY (OBSERVED TUESDAY, JULY 4, 2023) 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY

DURING THE SAME PERIOD, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$125 PER MINUTE.

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25	26	35				<u> </u>	<u> </u>				02/SAF /PV		EXT	TOTAL			NO.
																TRAFFIC CONTROL	
153 2											153 2	644 644	00700 01100	153 2	FT EACH	TRANSVERSE/DIAGONAL LINE SCHOOL SYMBOL MARKING, 72"	
24											24	644	01300	24	EACH	LANE ARROW	
434											434	644	01510	434	FT	DOTTED LINE, 6"	
21											21	644	20800	21	FT	YIELD LINE	
122											122	644	30000	122	FT	REMOVAL OF PAVEMENT MARKING	
28											28	644	30000	28	EACH	REMOVAL OF PAVEMENT MARKING  REMOVAL OF PAVEMENT MARKING	
	2										2	828	00100	2	EACH	LED BLANKOUT SIGN, TYPE R3-1, SIZE 36 X 36	
		296									296	611	96600	296	FT	TRAFFIC SIGNALS  CONDUIT, BORED OR JACKED, 3", 725.04	
		150									296 150	611	96600	150	FT	CONDUIT, BORED OR JACKED, 4", 725.04	
		4									4	625	10503	4	EACH	LIGHT POLE (INSTALLATION ONLY), AS PER PLAN	33
		4									4	625	14000	4	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
		885									885	625	23306	885	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
		251		~~~~							251	625	25402	251	FT	CONDUIT, 2", 725.05	
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		20	~~~~	******	~~~~	<del></del>	******	<del></del>	· · · · · · · · · · · · · · · · · · ·	~~~~	20	625	25502	20	FI	CONDUIT, 3", 725.05	
	{	~~ <sub>22</sub> ~~				<u></u>	<u></u>	<u></u>	<b></b>		~~ <del>22</del> ~~	625	25602	22	···· <del>FT</del> ····	CONDUIT, 4", 725.05	
		22										020	<u> </u>	22	FI	CONDUIT, 4 , 1/20.00	+
		238									238	625	29000	238	FT	TRENCH	
		4									4	625	30706	4	EACH	PULL BOX, 725.08, 24"	
		5									5	625	32000	5	EACH	GROUND ROD	
		20									20 2	632 632	05006 05086	20	EACH EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK	
												002	03000		LACIT	VEHICOLAN GIONAL HEAD, (LED), 5-DECTION, 12 LENG, 1-WAT, 1 DETOANDONATE, BEACK	
		8									8	632	20730	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN	
		21									21	632	25000	21	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
		8 112									8 112	632 632	26000 40200	8 112	EACH FT	PEDESTRIAN PUSHBUTTON SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	
		3,286									3,286	632	40500	3,286	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
		-,									-,			-,			
		2,307									2,307	632	40700	2,307	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
		100 4									100 4	632 632	62810 64011	100	FT EACH	INTERCONNECT CABLE, MISC.: ETHERNET RADIO SIGNAL SUPPORT FOUNDATION, AS PER PLAN	34
		4									4	632	64020	4	EACH	PEDESTAL FOUNDATION	33
		100									100	632	68200	100	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
		-100 	~~~~	m	····	<del> </del>	·····	·····	·····	····	~~ <del>100</del> ~	632 632	70000 70000	100	EACH	SERVICE CABLE, 3 CONDUCTOR, NO. 4 AWG POWER SERVICE 3/1	
		<del>  Wind</del>				<del> </del>		<del> </del>	<del> </del>		<del></del>	632	77233	<del>  </del>	EACH	SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.21 MAST ARM (GREATER THAN 39' IN LENGTH), AS PER PLAN	33
		2									2	632	81700	2	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TC-81.22, DESIGN 14, INSTALLATION ONLY	33
		2									2	632	81700	2	EACH	COMBINATION SIGNAL SUPPORT, MISC.: TC-81.22, SPECIAL, INSTALLATION ONLY	33
		4									4	632	89600	4	EACH	PEDESTAL, 8'	
		1									1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
		2									2	632	90200	2	EACH	REUSE OF VEHICULAR SIGNAL HEAD	
		1									1	633	65510	1	EACH	CABINET, TYPE TS-2	
		1 1									1 1	633 633	67100 67200	1 1	EACH EACH	CABINET FOUNDATION CONTROLLER WORK PAD	
$\overline{}$											'	033	07200	<u>'</u>	EACH	OOM   OLLLIN WORK FAD	_
		1									11	633	75000	11	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT	
		1									1	809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL AND RE-INSTALLATION OF PTZ CAMERA	34
		1 4									1 4	809 809	65990 69100	1 4	EACH EACH	ITS DEVICE, MISC.: REMOVAL AND RE-INSTALLATION OF ETHERNET RADIO STOP LINE RADAR DETECTION	34
		1									1	809	69122	1	EACH	ATC CONTROLLER	
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