ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

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

GAS:

DUKE ENERGY GAS
139 EAST 4" ST., ROOM 460A
CINCINNATI, OH 45202
OH/KYHOUSEBILL@DUKE-ENERGY.COM

TELEPHONE:

ATT OHIO
7201 FAR HILLS AVE.
DAYTON OHIO 45459
937-296-3588 (ALAN STUTES)
AS1634@ATT.COM

ATT METRO/LNS
THAYER POWER AND COMMUNICATION
LINE CONSTRUCTION CO., LLC
950 FREEWAY DRIVE N.
COLUMBUS, OH 43229
(614) 431-9292 (CHRISTOPHER MCCLOSKEY)
CHRISMCCLOSKEY@THAYERPC.COM

AT&T TRANSMISSION LONG DISTANCE
7555 E. PLEASANT VALLEY RD. SUITE 140
INDEPENDENCE, OH 44131
216-750-0135 (MICHAEL DIEDERICH)
MD4145@ATT.COM

CABLE TV:

CHARTER COMMUNICATIONS
10920 KENWOOD ROAD
BLUE ASH, OHIO 45242
(TODD VANVRANKEN)
DL-SOUTHERN-OHIO-OUTSIDE-PLANT@CHARTER.COM

POWER:

DUKE ENERGY ELECTRIC (DISTRIBUTION)
2010 DANA AVE
CINCINNATI, OH 45207
513-458-3855 (CHRIS TEPE)
CHRIS.TEPE@DUKE-ENERGY.COM

CENTERPOINT ENERGY COMPANY (VECTREN)
6500 CLYO ROAD
CENTERVILLE, OHIO 45459
(GREG FISHMAN)
GREG.FISHMAN@CENTERPOINTENERGY.COM
PUBLICPROJECT@CENTERPOINTENERGY.COM

WATER / STORM / SANITARY

CITY OF FRANKLIN
ONE BENJAMIN FRANKLIN WAY
FRANKLIN, OH 45005
937-746-9921 (BARRY CONWAY)
BCONWAY@FRANKLINOHIO.ORG

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD:	ODOT REAL TIME NEWWORK (2011)
MONUMENT TYPE:	TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM:	NAVD88
GEOID:	GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME:	NAD83 (2011)
ELLIPSOID:	GRS80
MAP PROJECTION:	LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM:	OHIO STATE PLANE, SOUTH ZONE
COMBINED SCALE FACTOR:	1.00008756
ORIGIN OF COORDINATE SYSTEM:	(X,Y) - EASTING (0), NORTHING (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.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	-----	5	5
30"	-----	2	2
48"	-----	-----	-----
60"	-----	1	1

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN IN THE RIGHT OF WAY PLANS.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 6 HOUR.

ITEM 607 - FENCE REMOVED, AS PER PLAN

CAREFULLY REMOVE AND THE EXISTING WOODEN FENCE PRIOR TO CONSTRUCTION. DELIVER FENCE PARTS TO CITY OF FRANKLIN, PARKS DIVISION (CONTACT: TERESA PERRY @ 937-746-5001, EXT. 1731).

PAYMENT FOR THE ABOVE WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 607, FENCE REMOVED, AS PER PLAN.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	5 EACH
659, TOPSOIL	980 CU. YD.
659, SEEDING AND MULCHING	8829 SQ. YD.
659, COMMERCIAL FERTILIZER	1.19 TON
659, LIME	1.8 ACRES
659, WATER	48 M. GAL.

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.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

MANHOLES, CATCH BASINS AND INLETS REMOVED OR ABANDONED

CAREFULLY REMOVE AND STORE ALL CASTINGS WITHIN THE RIGHT OF WAY FOR SALVAGE BY CITY FORCES.

PAYMENT FOR ALL OF THE ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

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 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.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT (ESA). FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ITEM 202 REMOVAL MISC.: BOLLARD

BOLLARDS AND ANY SUBSURFACE CONCRETE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE SUBSURFACE CAVITY LEFT BEHIND SHALL BE FILLED AND COMPACTED AS PER 203 AND THE GROUND SURFACE SEEDED AS PER 659. ALL OF THE ABOVE SHALL BE PAID FOR UNDER UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: BOLLARD.

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DESIGN AGENCY
DESIGNER EJT
REVIEWER DJR 12/01/23
PROJECT ID 110740
SHEET 12 TOTAL 98

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 120 CONSECUTIVE CALENDAR DAYS (BETWEEN MARCH 1 AND JULY 25), WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 16. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF $3,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT AS DESCRIBED IN THE WINDOW CONTRACT TABLE (THIS SHEET).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410,	TRAFFIC COMPACTED SURFACE, TYPE A OR B	5 CU. YD.
ITEM 614,	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	5 CU. YD.
ITEM 616,	WATER	10 M. GAL.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

S.R. 123, JUST NORTH OF SUNNYBROOK DRIVE
S.R. 123, JUST NORTH OF ENTRANCE RAMP TO I-75 EAST

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS FOLLOWS:

PHASE I:

TYPE III BARRICADE: STA. 10+00, S.R. 123
TYPE III BARRICADE: STA. 16+50, S.R. 123
TYPE III BARRICADE: STA. 55+25, COMMUNITY PARK DR

PHASE II:

TYPE III BARRICADE: STA. 15+55 LT., S.R. 123
TYPE III BARRICADE: STA. 16+35 RT., S.R. 123
TYPE III BARRICADE: STA. 18+85, S.R. 123
TYPE III BARRICADE: TOP OF DW-2

PHASE III:

TYPE III BARRICADE: STA. 18+65, S.R. 123
TYPE III BARRICADE: STA. 20+60, S.R. 123
TYPE III BARRICADE: TOP OF DW-3

PHASE IV:

TYPE III BARRICADE: STA. 20+40, S.R. 123
TYPE III BARRICADE: STA. 21+70, S.R. 123

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.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 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 (513-933-6620) WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

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 10 M. GAL.

WORK ZONE MARKINGS AND SIGNS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT	0.22 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	0.19 MIL
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	827 FT
ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT	272 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS I, 12", 642 PAINT	160 FT
ITEM 614, WORK ZONE LANE ARROW, CLASS I, 642 PAINT	10 EACH
ITEM 614, PAVEMENT MARKING MISC.: YIELD LINE, TYPE I	100 FT
ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT	0.22 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS III, 4", 642 PAINT	0.19 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	827 FT
ITEM 614, WORK ZONE DOTTED LINE, CLASS III, 4", 642 PAINT	272 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS III, 12", 642 PAINT	160 F T
ITEM 614, WORK ZONE LANE ARROW, CLASS III, 642 PAINT	10 EACH
ITEM 614, PAVEMENT MARKING MISC.: YIELD LINE, TYPE III	100 FT

WINDOW CONTRACT TABLE

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE $ PER DAY	WORK WINDOW START	WORK WINDOW END
ALL WORK ON PROJECT	120	$3,000 PER DAY	3/1/2025	7/25/2025

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET 15 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

(THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 8 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

(THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 30 SIGN MONTH, ASSUMING 3 PCMS SIGNS FOR 10 MONTHS

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:
- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
- AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND, AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:
- THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
- THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
- OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

WAR-123-29.40 COMMUNITY PARK
MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:17:19 PM USER: troyer
H:\2022\22032\3\110740\400-Engineering\MOT\Sheets\110740_MN001.dgn

DESIGN AGENCY
DESIGNER EMH
REVIEWER DJR 12/01/23
PROJECT ID 110740
SHEET 14 TOTAL 98

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
12			26	27	28	29	30	67	ROW				01/MPO/21						
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
			5,877	446				408					6,731	202	23000	6,731	SY	PAVEMENT REMOVED	
				5,282									5,282	202	30000	5,282	SF	WALK REMOVED	
				86									86	202	32000	86	FT	CURB REMOVED	
					141								141	202	35100	141	FT	PIPE REMOVED, 24" AND UNDER	
				550									550	202	38000	550	FT	GUARDRAIL REMOVED	
					2								2	202	58100	2	EACH	CATCH BASIN REMOVED	
				169									169	202	75001	169	FT	FENCE REMOVED, AS PER PLAN	12
				5									5	202	98100	5	EACH	REMOVAL MISC.: BOLLARD	12
													4,081	203	10000	4,081	CY	EXCAVATION	
													3,658	203	20000	3,658	CY	EMBANKMENT	
			8,375	978				285					9,638	204	10000	9,638	SY	SUBGRADE COMPACTION	
													2,245	204	13000	2,245	CY	EXCAVATION OF SUBGRADE	
			2,907										2,907	204	30020	2,907	CY	GRANULAR MATERIAL, TYPE C	
6													6	204	45000	6	HOUR	PROOF ROLLING	
			6,494										6,494	204	51000	6,494	SY	GEOGRID	
								142					142	255	20000	142	FT	FULL DEPTH PAVEMENT SAWING	
				50									50	606	15050	50	FT	GUARDRAIL, TYPE MGS	
				1									1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE EMASH 2016	
				3,222									3,222	608	12000	3,222	SF	5" CONCRETE WALK	
				1,456									1,456	608	52000	1,456	SF	CURB RAMP	
									3				3	623	38500	3	EACH	MONUMENT ASSEMBLY, TYPE C	
													LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																		EROSION CONTROL	
						13							13	601	21060	13	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
980													980	653	10000	980	CY	TOPSOIL FURNISHED AND PLACED	
5													5	659	00100	5	EACH	SOIL ANALYSIS TEST	
8,829													8,829	659	10000	8,829	SY	SEEDING AND MULCHING	
1.19													1.19	659	20000	1.19	TON	COMMERCIAL FERTILIZER	
1.8													1.8	659	31000	1.8	ACRE	LIME	
48													48	659	35000	48	MGAL	WATER	
							LS						LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
							LS						LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
							LS						LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
							50,000						50,000	832	30000	50,000	EACH	EROSION CONTROL	

GENERAL SUMMARY

WAR-123-29.40 COMMUNITY PARK

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:18:24 PM USER: troyer
H:\2022\220323\110740\400-Engineering\Roadway\Sheets\110740_GG001.dgn

DESIGN AGENCY

DESIGNER EJT

REVIEWER DJR 12/01/23

PROJECT ID 110740

SHEET 22 TOTAL 98

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		27	72	73	74	75		82	83				01/MPO/21						
																		TRAFFIC CONTROL	
		3											3	626	00110	3	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
			414	168									582	630	03100	582	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			11	4									15	630	08600	15	EACH	SIGN POST REFLECTOR	
			190	85									275	630	80100	275	SF	SIGN, FLAT SHEET	
			9	10									19	630	84900	19	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			3										3	630	85100	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
			7	5									12	630	86002	12	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			8										8	630	97700	8	EACH	SIGNING, MISC.:SOLAR - POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) SIGN ASSEMBLY	81
			8										8	630	97700	8	EACH	SIGNING, MISC.:SOLAR - POWERED RECTANGULAR RAPID FLASHING BEACON (RRFB) FOUNDATION	81
			1										1	630	97700	1	EACH	SIGNING, MISC.: REMOVAL OF SIGN AND FLASHING LIGHT ASSEMBLY	81
						28							28	642	30000	28	FT	REMOVAL OF PAVEMENT MARKING	
					0.1	0.1							0.2	644	00104	0.2	MILE	EDGE LINE, 6"	
					0.13	0.09							0.22	644	00300	0.22	MILE	CENTER LINE	
					597	230							827	644	00404	827	FT	CHANNELIZING LINE, 12"	
						18							18	644	00500	18	FT	STOP LINE	
					160								160	644	00630	160	FT	CROSSWALK LINE, 24"	
					52	31							83	644	00700	83	FT	TRANSVERSE/DIAGONAL LINE	
					70	26							96	644	00720	96	FT	CHEVRON MARKING	
					8	2							10	644	01300	10	EACH	LANE ARROW	
					272								272	644	01520	272	FT	DOTTED LINE, 12"	
					100								100	644	20800	100	FT	YIELD LINE	
																		LIGHTING	
								17					17	625	00450	17	EACH	CONNECTION, FUSED PULL APART	
								17					17	625	00460	17	EACH	CONNECTION, UNFUSED PULL APART	
								27					27	625	00480	27	EACH	CONNECTION, UNFUSED PERMANENT	
								9					9	625	10491	9	EACH	LIGHT POLE, CONVENTIONAL, AS PER PLAN (40 FT)	84
								9					9	625	14000	9	EACH	LIGHT POLE FOUNDATION, 24" X 6' DEEP	
								4					4	625	18001	4	EACH	BRACKET ARM, 10', AS PER PLAN	84
								5					5	625	18401	5	EACH	BRACKET ARM, 20', AS PER PLAN	84
								363					363	625	23300	363	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE	
								4,869					4,869	625	23302	4,869	FT	NO. 6 AWG 2400 VOLT DISTRIBUTION CABLE	
								3,735					3,735	625	23306	3,735	FT	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	
								2,340					2,340	625	23400	2,340	FT	NO. 10 AWG POLE AND BRACKET CABLE	
								56					56	625	25400	56	FT	CONDUIT, 2", 725.04	
								1,141					1,141	625	25408	1,141	FT	CONDUIT, 2", 725.051	
								242					242	625	25504	242	FT	CONDUIT, 3", 725.051	
								745					745	625	25600	745	FT	CONDUIT, 4", 725.04	
								9					9	625	26253	9	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (TYPE III, 102 W)	84
									1,489				1,489	625	29000	1,489	FT	TRENCH	
									624				624	625	29400	624	FT	TRENCH IN PAVED AREA	
									7				7	625	30510	7	EACH	PULL BOX, 725.06, SIZE 4	
									1				1	625	30700	1	EACH	PULL BOX, 725.08, 18"	
									9				9	625	32000	9	EACH	GROUND ROD	
									1				1	625	34001	1	EACH	POWER SERVICE, AS PER PLAN	84
									1				1	632	70400	1	EACH	CONDUIT RISER, 2" DIAMETER	

GENERAL SUMMARY

WAR-123-29.40 COMMUNITY PARK

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:18:50 PM USER: troyer
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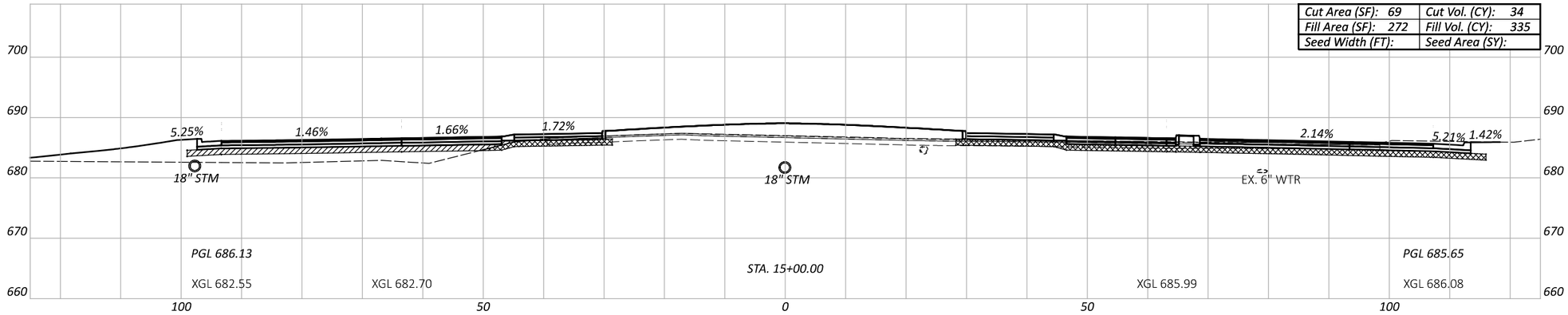
DESIGN AGENCY

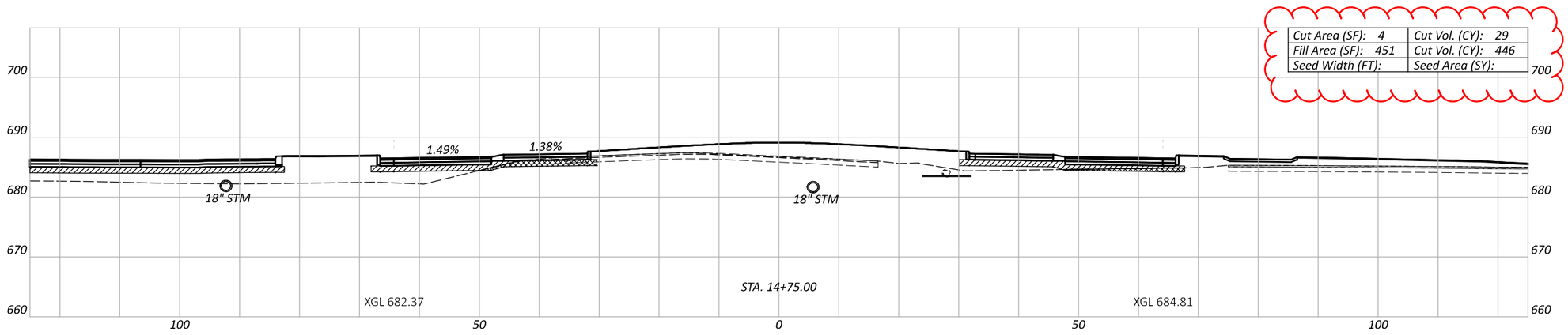
DESIGNER EJT

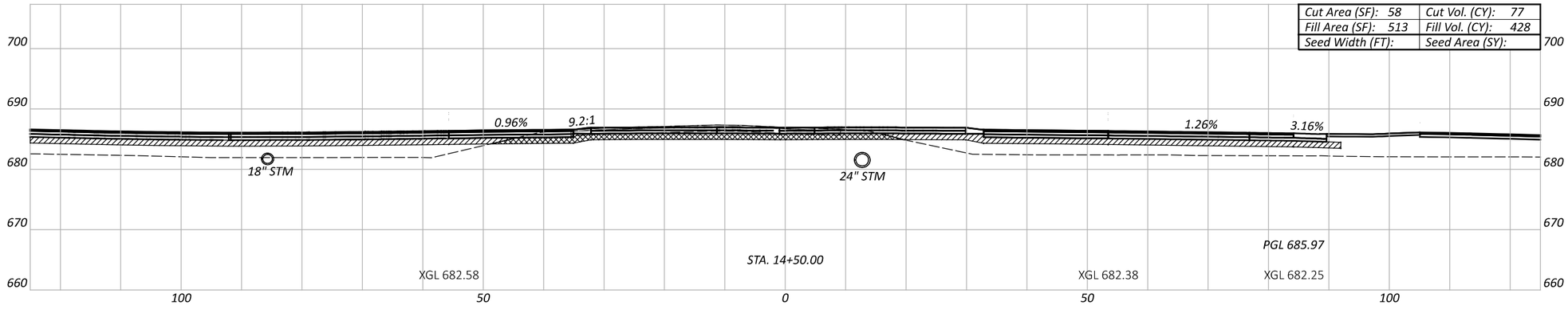
REVIEWER DJR 12/01/23

PROJECT ID 110740

SHEET 24 TOTAL 98







CROSS SECTIONS
S.R. 123 STA 14+50 TO STA 15+00

DESIGN AGENCY

DESIGNER
EMH

REVIEWER
DJR 12/01/23

PROJECT ID
110740

SHEET 43 TOTAL 98

Sheet Totals		
Seeding	Cut	Fill

WAR-123-29.40 COMMUNITY PARK

MODEL: CLP_SR123 - 14+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:31:34 PM USER: troyer
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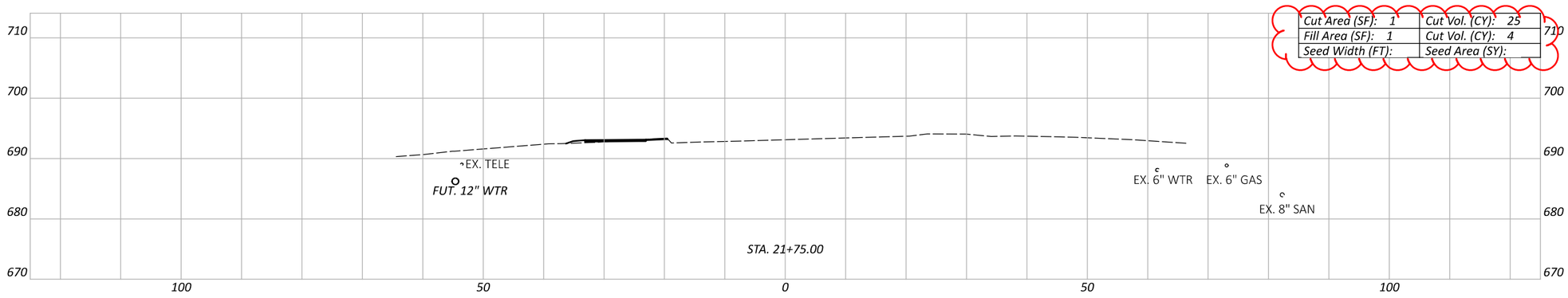

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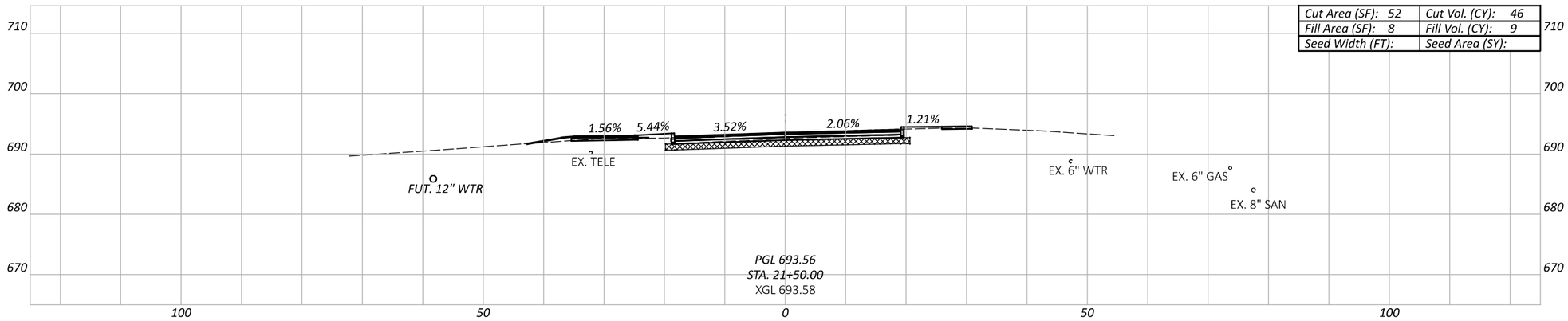
Fill Area (SF): 1	Cut Vol. (CY): 4
Seed Width (FT):	Seed Area (SY):



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Fill Area (SF): 8	Fill Vol. (CY): 9
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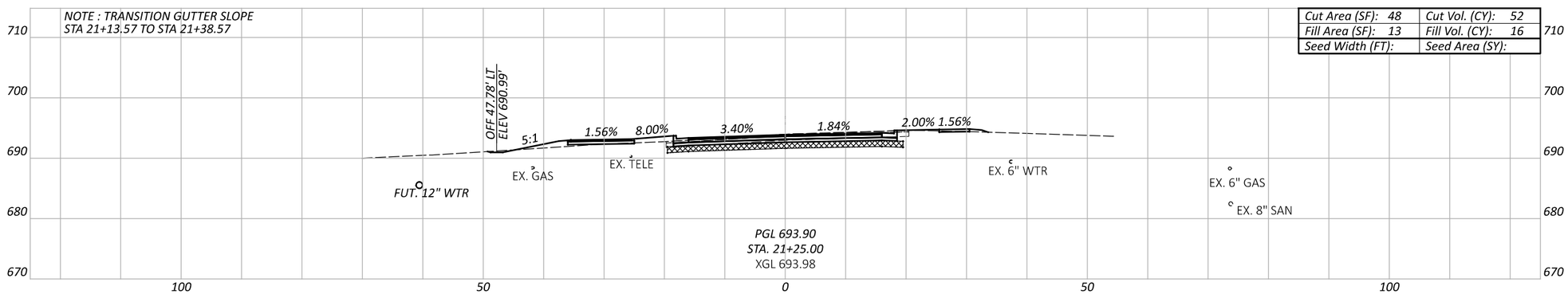

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Fill Area (SF): 13	Fill Vol. (CY): 16
Seed Width (FT):	Seed Area (SY):

CROSS SECTIONS
S.R. 123 STA 21+25 TO STA 21+75

DESIGN AGENCY

DESIGNER
EMH

REVIEWER
DJR 12/01/23

PROJECT ID
110740

Sheet Totals		
Seeding	Cut	Fill

SHEET 52 TOTAL 98

WAR-123-29.40 COMMUNITY PARK

MODEL: CLP_SR123 - 21+25.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:33:17 PM USER: troyer
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WAR-123-29.40 COMMUNITY PARK

MODEL: CLP_SR123 - 22+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:33:46 PM USER: troyer
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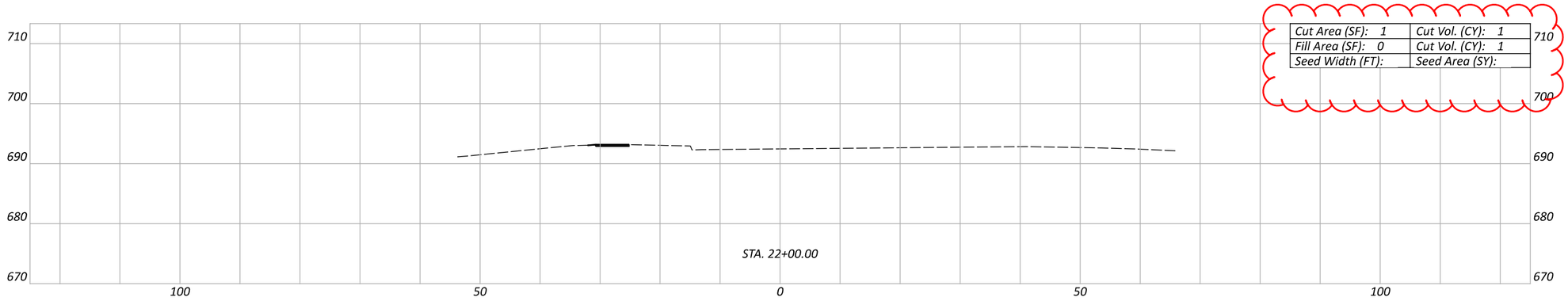
CROSS SECTIONS
S.R. 123 STA 22+00



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Fill Area (SF): 0	Cut Vol. (CY): 1
Seed Width (FT):	Seed Area (SY):

Sheet Totals		
Seeding	Cut	Fill

DESIGN AGENCY

DESIGNER
EMH

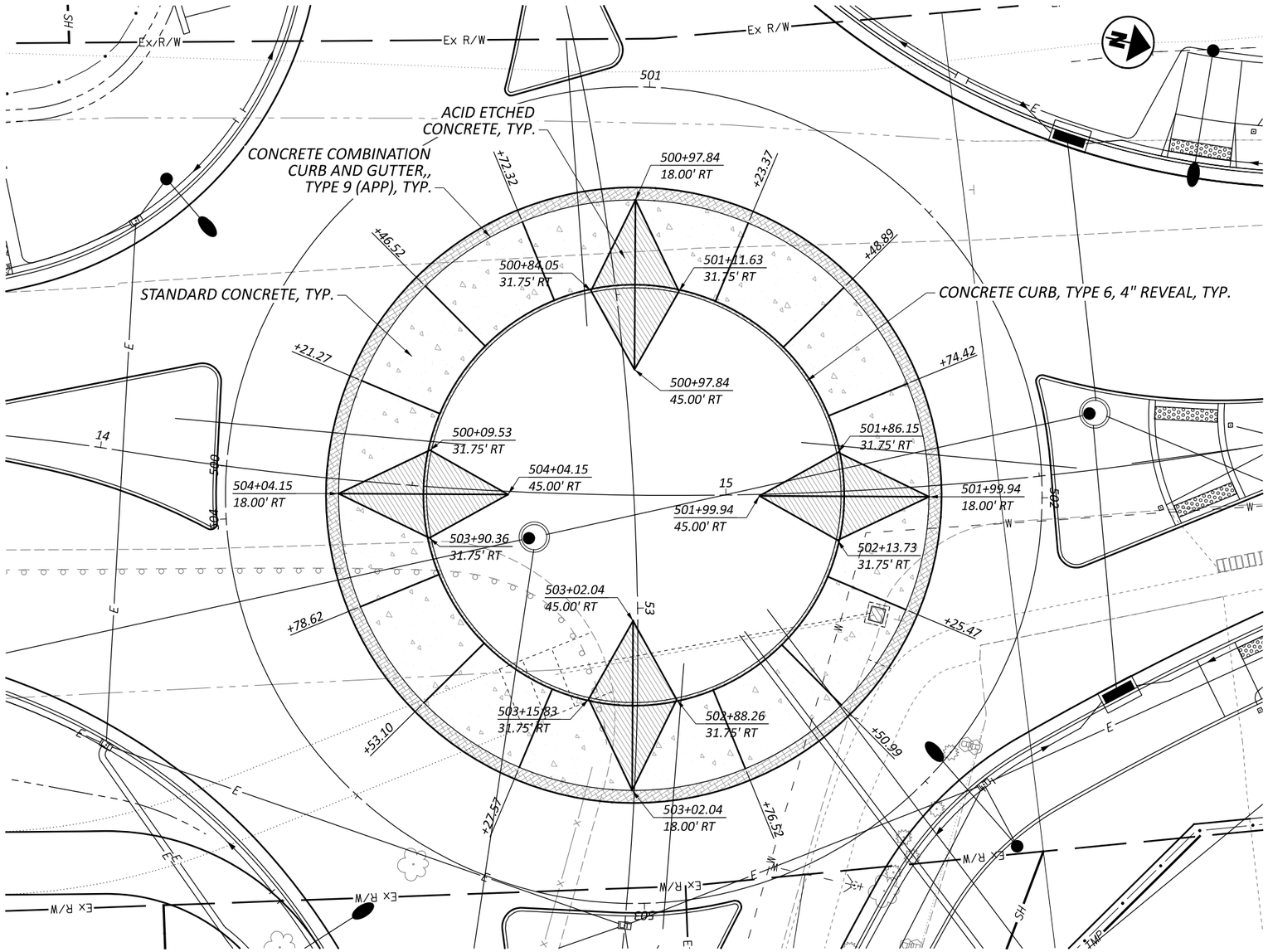
REVIEWER
DJR 12/01/23

PROJECT ID
110740

SHEET 53 | TOTAL 98

HARDSCAPE AND MATERIALS SCHEDULE

KEY	ITEM	FINISH	COLOR	SUPPLIER (BASIS OF DESIGN OR APPROVED EQUAL)
	STANDARD CONCRETE	SAW CUT JOINTS ; NO TOOL MARKS	STANDARD	TBD
	INTERGRAL COLORED CONCRETE DIAMOND ACCENT	GRACE TOPCAST : SAND BLAST ; 05 POWDER BLUE VIOLET	DAVIS COLORS : KAILUA WITH 309 SEALER	DAVIS COLORS - 1.323.265.8323 GRACE TOPCAST - 1.88.336.9303 GRACECONSTRUCTIONPRODUCTS.COM
	CONCRETE CURB	SAW CUT JOINTS ; NO TOOL MARKS	STANDARD	TBD



HORIZONTAL SCALE IN FEET
0 5 10 20

LANDSCAPING PLAN
HARDSCAPE DETAILS

DESIGN AGENCY

DESIGNER EMH
REVIEWER DJR 12/01/23
PROJECT ID 110740
SHEET 87 TOTAL 98

WAR-123-29.40 COMMUNITY PARK

MODEL: CLP_SR123 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 3/19/2024 TIME: 5:37:12 PM USER: troyer
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