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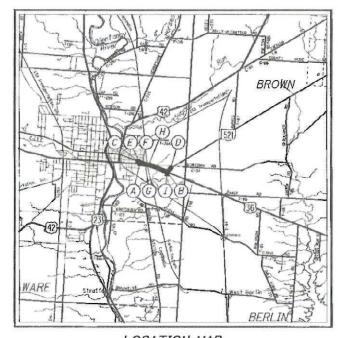
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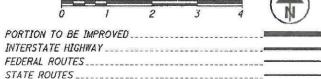
LOCATION MAP

LATITUDE: 40°17'50" N LONGITUDE: 83°02'40" W

COUNTY & TOWNSHIP ROADS.....

OTHER ROADS.

SCALE IN MILES



DESIGN DESIGNATION	US-36/SR-37	US=36 ₩. OF RR	SR-37 ₩ OF RR	SR521
CURRENT ADT (2020)	25,500	16,400	17,400	10,200
UESIGN YEAR ADT (2040)	34,600	21,800	22,100	15,700
DESIGN HOURLY VOLUME (2040)	4,330	2,110	2,220	970
DIRECTIONAL DISTRIBUTION	51%	55%	59%	66%
TRUCKS (24 HOUR B&C)	10%	8%	8%	5%
DESIGN SPEED	40 MPH	40 MPH	40 MPH	40 MPH
LEGAL SPEED	35 MPH	35 MPH	35 MPH	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION	:			

US-36/SR-37 / US-36 / SR-37 - 03 PRINICIPAL ARTERIAL (URBAN) SR 521 - 04 MINOR ARTERIAL

NHS PROJECT DESIGN EXCEPTIONS NONE REQUIRED

ADA DESIGN WAIVER NONE REQUIRED



OHIO811, 8-1-1, or 1-800-362-2764 (Non-members must be called directly)

Before You Dig

PLAN PREPARED BY: **annettFleming**

2500 CORPORATE EXCHANGE DRIVE, SUITE 230 COLUMBUS, OHIO 43231

A) BEGIN PROJECT (US-36) STA 585+90.00 SLM 11.09

B END PROJECT (US-36) STA 620+58.20 SLM 11.75

© BEGIN WORK (SR-37) STA 13+78.00 SLM 11.27

F END WORK MOORE ST STA 110+83.00

G END WORK (EAST POINT CROSSING) STA 78+25.30 H END WORK BOWTOWN RD

(I) END WORK (MILL RUN CROSSING) STA 1+50.00

ENGINEERS SEAL:

ANDSCAPANOS SHEETS 388 OF ONE

ENGINEERS SEAL: LANDSCAPING/STRUCTURA SHEETS 397,398

WE OF OF

DATE: 08/30/2022

CITY OF DELAWARE, OHIO

RAILROAD BRIDGE REPLACEMENT & US36 / SR37 / SR 521 IMPROVEMENTS

DEL-36-11.03

CITY OF DELAWARE DELAWARE COUNTY

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ESTIMATED QUANTITIES	132 149	DRIVE DETAILS	235 - 251
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PLAN AND PROFILE		CULVERT DETAIL	262 - 268, 263A, 263B
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		SOIL PROFILES	

PROJECT DESCRIPTION

REPLACEMENT OF THE NORFOLK SOUTHERN RAILROAD BRIDGE OVER US-36/SR-37. RECONSTRUCTION OF 0.66 MILES OF US-36/SR-37. RECONSTRUCTION OF FAST WILLIAM ST, CENTRAL AVE, BOWTOWN RD, EAST POINT CROSSING. WIDENING AND RESURFACING OF SR-521 AND MILL RUN RD. ADDITIONAL WORK CONSISTS OF INTERSECTION, SIDEWALK, SIGNAL, SHARED USE PATH, LIGHTING, AND DRAINAGE IMPROVEMENTS.

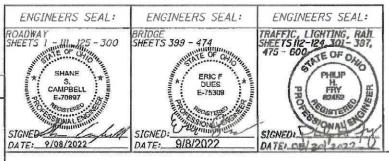
EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 17.2 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 18.2 ACRES

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DE-TOURS WILL BE PROVIDED AS INDICATED ON SHEET 52 - 58.



			STANDAR	CONSTRU	ICTION E	RAWINGS				1	PPLEMENTAL CIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	HW-2.1	7/20/18	HL-50.11	1/16/15	MT-101.90	7/17/20	TC-74.10	1/21/22	800	SEE PROPOSAL	WATERWAY
BP-5.1	7/15/22	HW-2.2	7/20/18	HL-60.11	7/21/17	MT-105.10	1/17/20	TC-81.22	7/15/22	809	7/15/22	PERMIT
BP-7.1	1/21/22		7/16/21	HL-60.12	7/16/21	MT-110.10	7/19/13	TC-82.10	7/19/19	816	10/18/19	9/2/22
CB-2-2A, 28	7/15/22	MH-3	7/16/21	HL-60.31	1/17/20	TC-12.31	4/15/22	TC-83.10	1/17/20	821	4/20/12	
CB-2-3.2-4	7/16/21	RM-1.1	1/15/21	ITS-14.10	1/21/22	TC-21.21	7/15/22	TC-83.20	7/15/22	832	7/15/22	
CB-3	7/16/21	RM-2.1	7/19/13	ITS-14.11	1/21/22	TC-41.20	10/18/13	TC-85.10	4/17/20	895	4/18/14	
CB-3A	7/16/21	RM-3.1	7/20/18	ITS-14.20	1/15/21	TC-41.30	10/18/13	TC-85.20	7/20/18	921	4/20/12	
DM-1.1	7/17/20	RM-5.2	1/18/19	ITS-15.11	1/15/21	TC-41.50	10/18/13			878	1/21/22	
DM-1.2	7/16/21	HL-10.11	7/15/22	MT-95.30	7/19/19	TC-42.20	10/18/13		\	876	1/21/22	ノ
DM-4.4	1/15/16	HL-10.12	1/20/17	MT-95.70	1/17/20	TC-51.11	01/15/16			813	10/19/18	
MG5-1.1	7/16/21	HL-10.13	4/17/20	MT-97.10	4/19/19	TC-52.10	10/18/13			4		
MGS-2.1	1/19/18	HL-20.11	1/15/21	MT-99.30	1/17/20	TC-52.20	1/15/21					
MGS-4.2	7/19/13	HL-30.11	1/15/21	MT-100.00	7/16/21	TC-61.10	1/17/20					STATE OF STA
MGS-5.3	7/15/16	HL-30.22	1/15/21	MT-101.60	1/17/20	TC-65.10	1/17/14					
		HL-40.10	7/17/20	MT-101.70	1/17/20	TC-65.11	7/15/22			100000000000000000000000000000000000000		
		HL-40.20	7/15/22	MT-101.75	1/17/20	TC-71.10	7/15/22					enressionessonessonessonesson

DATE 9/14/22 ___ CITY ENGINEER, CITY OF DELAWARE

DATE 9/15/22 DISTRICT DEPUTY DIRECTOR

APPROVED DATE 11-14- 122 DIRECTOR, DEPARTMENT OF TRANSPORTATION

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UTILITIES

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

700 MORRISON RD, 3RD FLOOR GAHANNA, OH 43230 PAUL PAXTON PTPAXTON@AEP.COM (614) 883-6831 MICHEAL POWERS (TRC) MAPOWERS@TRCCOMPANIES.COM (614) 636-6493

2932 6TH ST IRONTON, OH 45638 CHARLES JOHNSON (740) 532-9943

SPECTRUM 3760 INTERCHANGE RD COLUMBUS, OH 43204 SAM LUTZ SAMUEL.LUTZ@CHARTER.COM (614) 481-5047

COLUMBIA GAS OF OHIO 3550 JOHNNY APPLESEED CT COLUMBUS, OH 43231 ROR CALDWELL RCALDWELL@NISOURCE.COM

CONSOLIDATED COOPERATIVE 5255 STATE ROUTE MT GILEAD, OH 43338 TYLER THOMPSON TTHOMPSON@CONSOLIDATED.COOP

CITY OF DELAWARE DEPARTMENT OF PUBLIC UTILITES WATER TREATMENT FACILITY 3080 US 23 NORTH DELAWARE, OH 43015 (740) 203-1900

CITY OF DELAWARE DEPARTMENT OF PUBLIC UTILITES WASTEWATER TREATMENT FACILITY 225 N CHERRY ST DELAWARE, OH 43015 (740) 203-1950

CITY OF DELAWARE (TRAFFIC) 440 E WILLIAM ST DELAWARE, OH 43015 NATHAN MCCOY

FRONTIER COMMUNICATIONS 1300 COLUMBUS-SANDUSKY RD MARION. OH 43302 CHRIS AVERY IRA.AVERY@FTR.COM (740) 383-0551

VERIZON BUSINESS 20 RAVINE ST AKRON, OH 44303 AL GUEST ALLEN.GUEST@VERIZON.COM

WIDE OPEN WEST 3675 CORPORATE DR COLUMBUS, OH 43231 STEVEN CALLAHAN STEVEN.CALLAHAN@WOWING.COM KANN KHAY (TEAM FISHEL) (614) 291-8515

240 N 5TH STREET, SUITE 168 COLUMBUS, OH 43215 CHRIS POWELL CPOWELL@EVERSTREAM.NET (380) 204-5481

SUBURBAN NATURAL GAS 2626 LEWIS CENTER RD LEWIS CENTER, OH 43035 AARON ROLL AROLL@SNGCO.COM (740) 548-2450

LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS DEPICT THE LOCATION OF UTILITIES PRIOR TO ANY RELOCATION THAT

EROSION AND SEDIMENT CONTROL WITHIN THE OLENTANGY WATERSHED

THE PROJECT INCLUDES CONSTRUCTION ACTIVITIES WITHIN THE OLENTANGY WATERSHED AS DEFINED IN APPENDIX B OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) GENERAL PERMIT NO. OHCO00005. THE CONTRACTOR NEEDS TO FULLY UNDERSTAND ALL REQUIREMENTS ASSOCIATED WITH CONSTRUCTION WITHIN THE OLENTANGY WATERSHED BEFORE REGINNING ANY WORK

DO NOT UTILIZE AREAS WITHIN THE RIPARIAN ZONES AND OUTSIDE THE PROJECT CONSTRUCTION LIMITS FOR ANY CONTRACTOR ACTIVITIES. PROVIDE NOTIFICATION TO THE ENGINEER IF CONSTRUCTION LIMITS CANNOT BE MET PRIOR TO SWPPP DEVELOPMENT. THE CONTRACTOR MAY BE SUBJECT TO ADDITIONAL MITIGATION, RESTORATION OR PERMIT REQUIREMENTS. ALL ADDITIONAL MITIGATION, RESTORATION OR PERMIT REQUIREMENT COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE LOCATION OF THE RIPARIAN SETBACKS AS SHOWN IN THE PLANS MUST BE INCORPORATED INTO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR CANNOT AMEND THE LOCATIONS OF THE RIPARIAN SETBACKS.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE BELOW 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: STATIC/RAPID GPS OBSERVATIONS. TOTAL STATION MEASUREMENTS AND DIFFERENTIAL LEVELING

MONUMENT TYPE: 13/16" I.D. IRON PIPES WITH ALUMINUM CAP, 13/16" I.D. IRON PIPES WITH PLASTIC CAP INSCRIBED "EMHT INC" AND MAGNETIC NAILS

VERTICAL POSITIONING ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID12B

HORIZONTAL POSITIONING REFERENCE FRAME: NAD83 (2011) ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE (NORTH ZONE) COMBINED SCALE FACTOR: 1.0000100201 (GRID TO GROUND)

ORIGIN OF COORDINATE SYSTEM: 0,0,0

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 SUPPLEMENTAL SPECIFICATION 823.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED

601, TIED CONCRETE BLOCK MAT, WITH TYPE 1 UNDERLAYMENT - 10 SQ. YD. 605, AGGREGATE DRAINS - 50 FT. 611 6" CONDUIT, TYPE F - 50 FT. 611, PRECAST REINFORCED CONCRETE OUTLET - 2 EACH 605 6" UNCLASSIFIED PIPE UNDERDRAINS - 150 FT.

SEEDING AND MULCHING

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

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	2268 CU. YD.
659, SEEDING AND MULCHING	20430 SQ. YD
659, REPAIR SEEDING AND MULCHING	1022 SQ. YD
659, INTER-SEEDING	1022 SQ. YD.
659, COMMERCIAL FERTILIZER	2.76 TON
659, LIME	4.22 ACRES
659, WATER	110 M. GAL.
659, MOWING	5108 M. SQ.F

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.

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		TOTAL
		STUMPS	
18"	44	1	45
30"	6	0	6
48"	5	0	5

A SEPARATE CONTRACT WILL INCLUDE THE CLEARING AND GRUBBING WITHIN RAILROAD RIGHT-OF-WAY.

ITEM 623 - RIGHT-OF-WAY MONUMENT

THIS WORK SHALL CONSIST OF SETTING CENTERLINE MONUMENTS PER SCD RM1-1 (TYPE C) AT THE FOLLOWINGS LOCATION IDENTIFIED IN THE RIGHT-OF-WAY PLANS OF THESE CONSTRUCTION PLANS, SEE SHEET 603 (3/44) FOR COORDINATES. ENSURE ALL WORK ASSOCIATED WITH THE SETTING MONUMENTS SHALL BE IN ACCORDANCE WITH ITEM 623 OF ODOT CMS, CURRENT EDITION. PAYMENT FOR ALL WORK AS IT PERTAINS TO THE SETTING OF CENTERLINE MONUMENTS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 623 MONUMENT ASSEMBLY, TYPE C, 7 EACH. QUANTITIES CARRIED TO GENERAL SUMMARY.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE PLAN SHEET NO. 12 FOR ADDITIONAL INFORMATION.

ITEM 204 - PROOF ROLLING 20 HOUR.

GRADING OF PARCEL 8

THE FOLLOWING QUANTITIES ACCOUNT FOR ALL EARTHWORK AND SEEDING AND MULCHING NECESSARY FOR THE REGRADING OF PARCEL 8 AFTER THE PROPERTY HAS BEEN CLEARED PER ITEM 202 - BUILDING DEMOLISHED, AS PER PLAN.

203,	EXCAVATION	320	CU.	YD.
203,	EMBANKMENT	1296	CU.	ΥD
659,	TOPSOIL	565	CU.	YD.
659.	SEEDING AND MULCHING	5089	SQ.	YD.

REGRADE PARCEL 8 AS SPECIFIED ON SHEET 300. THE CONTRACTOR SHALL PLACE TOPSOIL AND SEEDING AND MULCHING TO ALL AREAS OF EXPOSED SOIL AFTER THE REGRADING IS COMPLETED. QUANTITY CALCULATIONS FOR EARTHWORK AND SEEDING AND MULCHING ARE BASED ON THE AREA OF THE EXISTING PROPERTY TO BE CLEARED.

EARTHWORK FOR MAINLINE PAVEMENT

EXCAVATION AND EMBANKMENT CONSTRUCTION EXCAVATED SOILS ON THE PROJECT SITE MAY NOT BE SUITABLE FOR EMBANKMENT USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY ON-SITE SOIL USED AS EMBANKMENT MEETS THE REQUIREMENTS OF 203.

ITEM 203, EXCAVATION, INCLUDES WASTING ANY EXCAVATED MATERIAL WITHIN THE RIGHT-OF-WAY WITH THE APPROVAL OF THE ENGINEER OR OUTSIDE THE RIGHT-OF-WAY AT THE CONTRACTOR'S EXPENSE, IF NO SUITABLE AREAS EXIST FOR WASTING WITHIN THE RIGHT-OF-WAY.

ITEM 203, EMBANKMENT INCLUDES CONSTRUCTING EMBANKMENTS TO PLAN LINES AND INCLUDES FURNISHING AND PLACING SUITABLE BORROW MATERIAL AS SPECIFIED IN 203, WHEN REQUIRED. FOR SOIL BORROW OR OTHER MATERIALS NOT ALREADY CERTIFIED TO MEET 203 REQUIREMENTS, THE CONTRACTOR SHALL ALLOW THE ENGINEER 10 DAYS TO PERFORM IN SITU TESTS PRIOR TO USING THE MATERIAL.

PRIOR TO EARTH DISTURBING ACTIVITIES, INSTALL ALL REQUIRED EROSION CONTROL ITEMS AS SPECIFIED ON THE STORMWATER POLLUTION PREVENTION PLAN PREPARED BY THE CONTRACTOR. FOR EARTH DISTURBING WORK OUTSIDE THE WORK LIMITS, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS, IF REQUIRED. INCLUDING FOR BORROW AREAS. PROVIDE THE APPROPRIATE EROSION CONTROL MEASURES AS REQUIRED.

THE FOLLOWING IS A SUMMARY OF ALL EARTHWORK QUANTITIES GENERATED BY THE CROSS SECTIONS.

US-36 203, EXCAVATION 203, EMBANKMENT	31511 CU. YD 2907 CU. YD
SR-37 203, EXCAVATION 203, EMBANKMENT	2468 CU. YD 21 CU. YD.
SR-37 EB 203, EXCAVATION 203, EMBANKMENT	1065 CU. YD 36 CU. YD.
SR-37 WB 203, EXCAVATION 203, EMBANKMENT	4558 CU. YD 46 CU. YD.
BOWTOWN ROAD 203, EXCAVATION 203, EMBANKMENT	338 CU. YD. 6 CU. YD.
EAST POINT CROSSING 203, EXCAVATION 203, EMBANKMENT	371 CU. YD. 2 CU. YD.
MOORE STREET 203, EXCAVATION 203, EMBANKMENT	122 CU. YD. O CU. YD.
EAST STREET 203, EXCAVATION 203, EMBANKMENT	72 CU. YD. O CU. YD.
SR-521 (KILBOURNE RD) 203, EXCAVATION 203, EMBANKMENT	1183 CU. YD. 447 CU. YD.

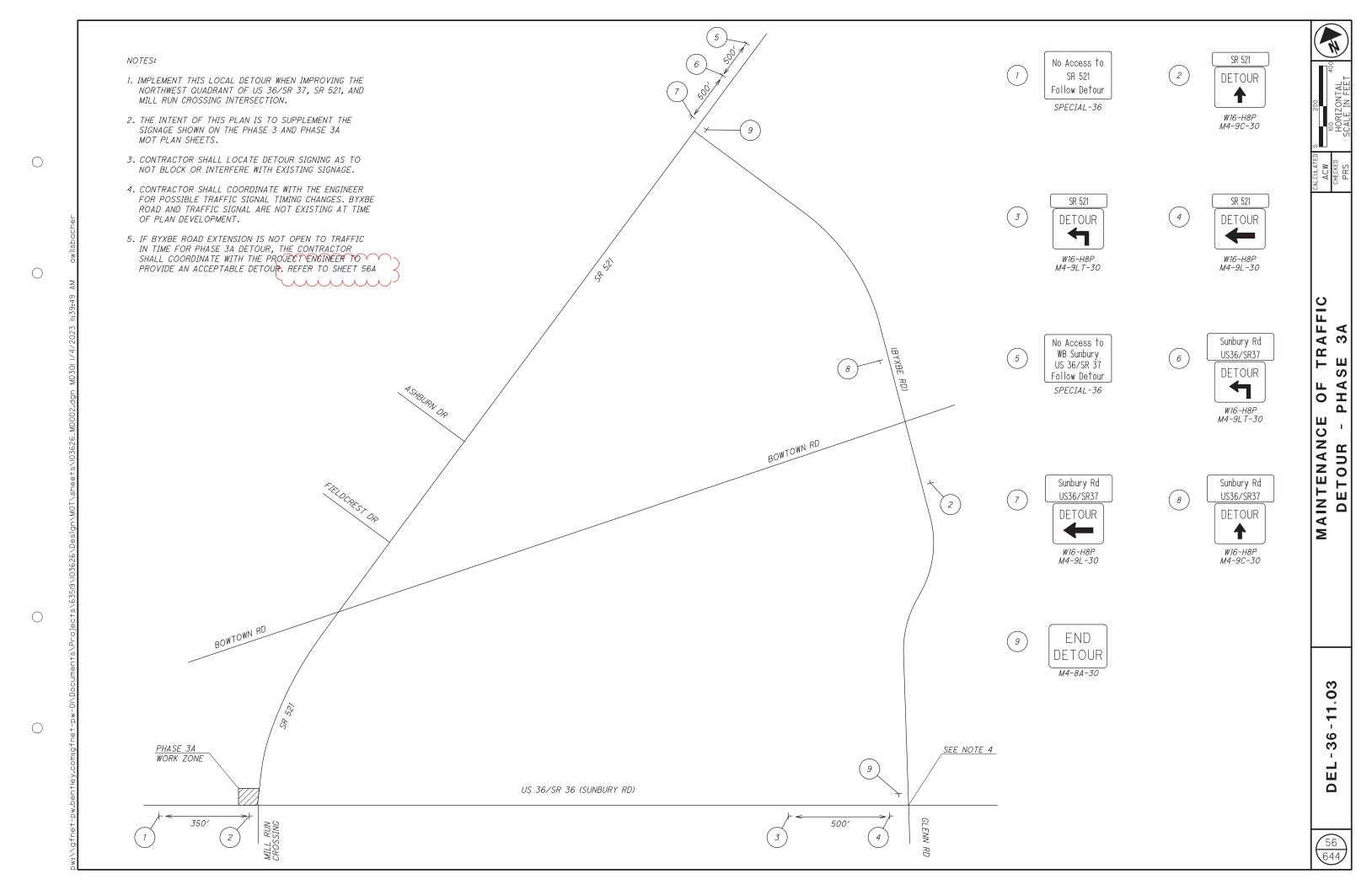
THE FOLLOWING GRAND TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY:

203. FXCAVATION 41688 CU. YD. 203, EMBANKMENT 3465 CU. YD.

EXISTING PLANS

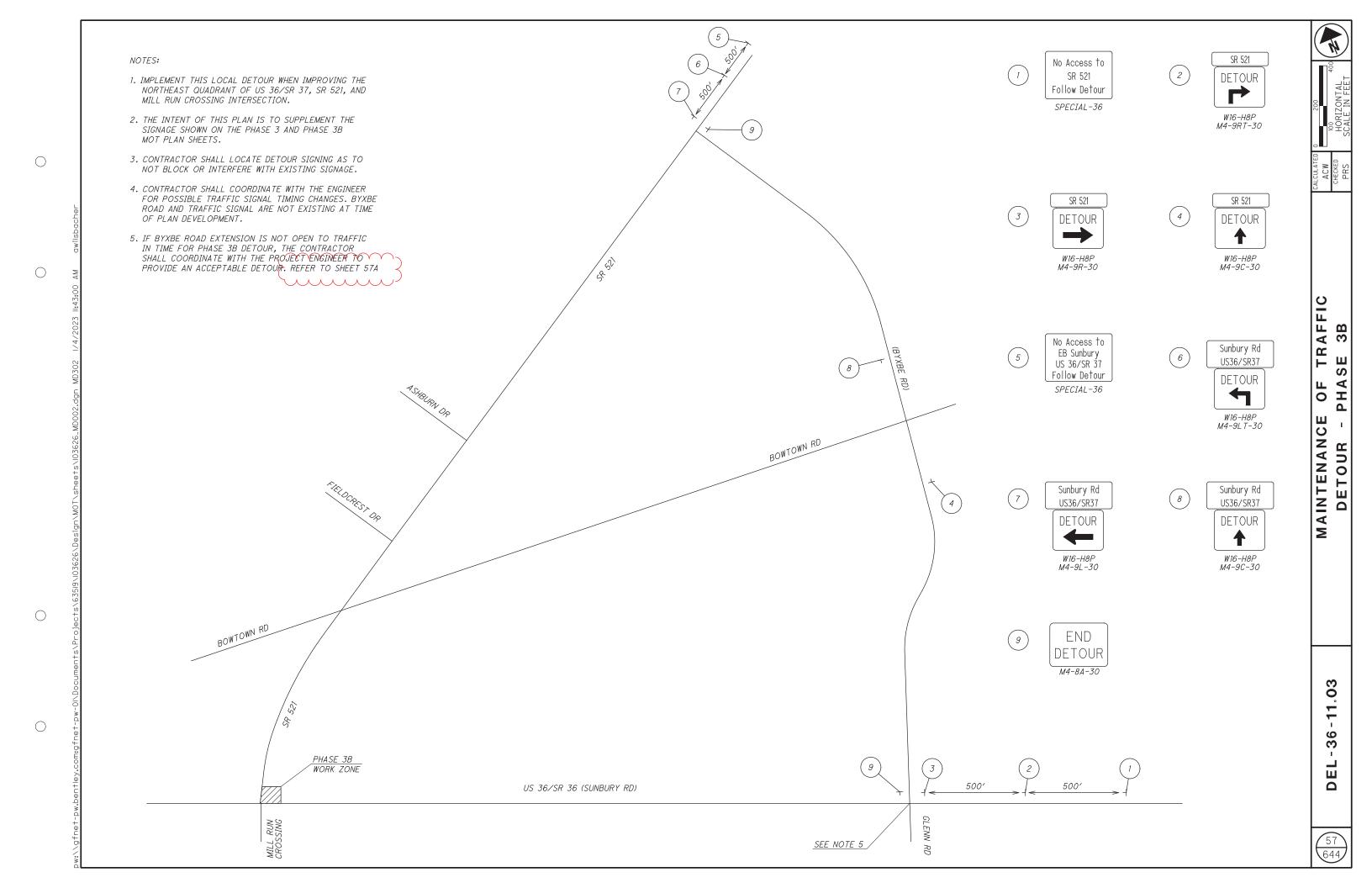
EXISTING PLANS MAY BE INSPECTED AT ODOT D6 AND/OR CITY OF DELAWARE OFFICE OF PUBLIC WORKS

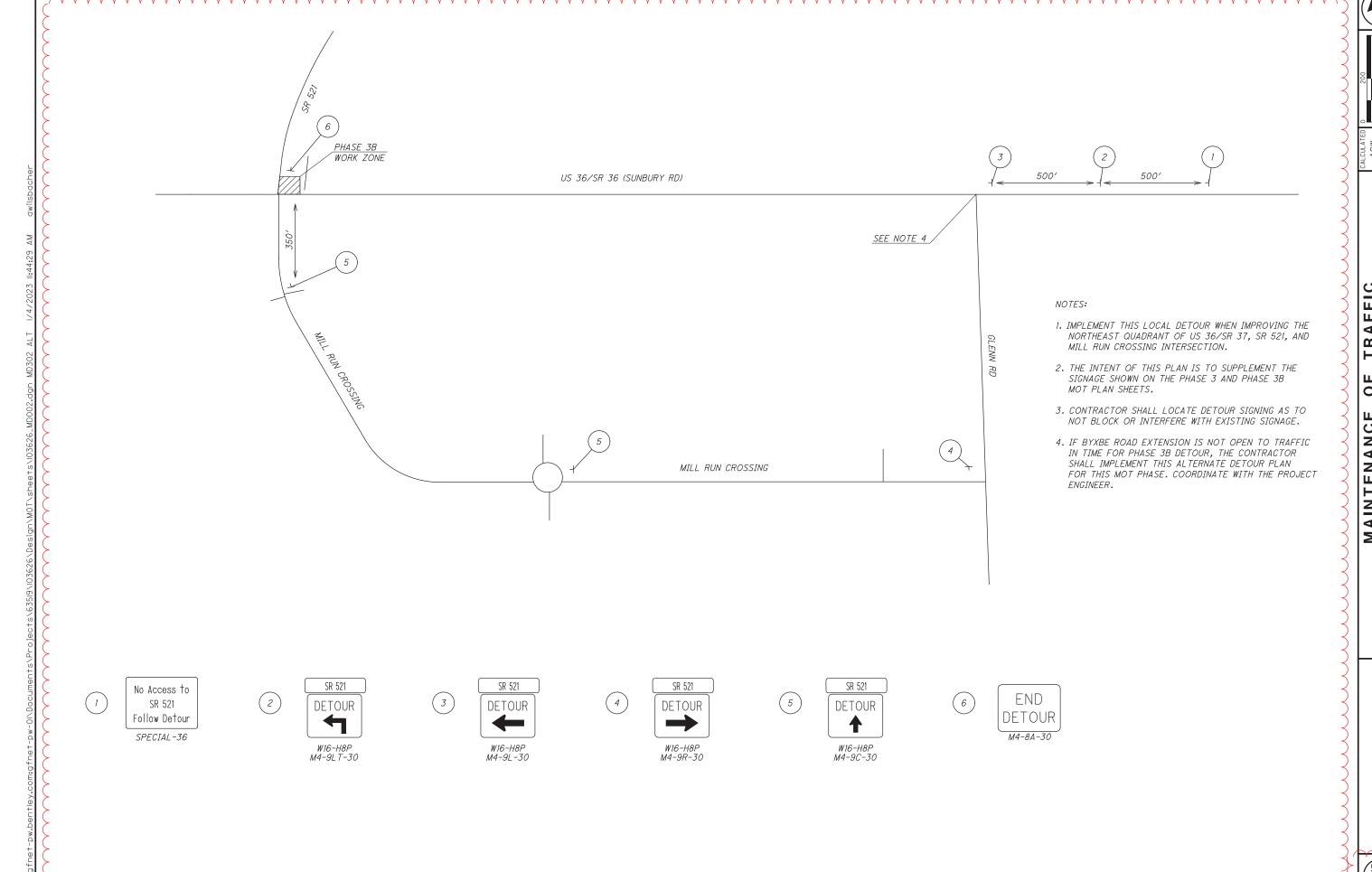




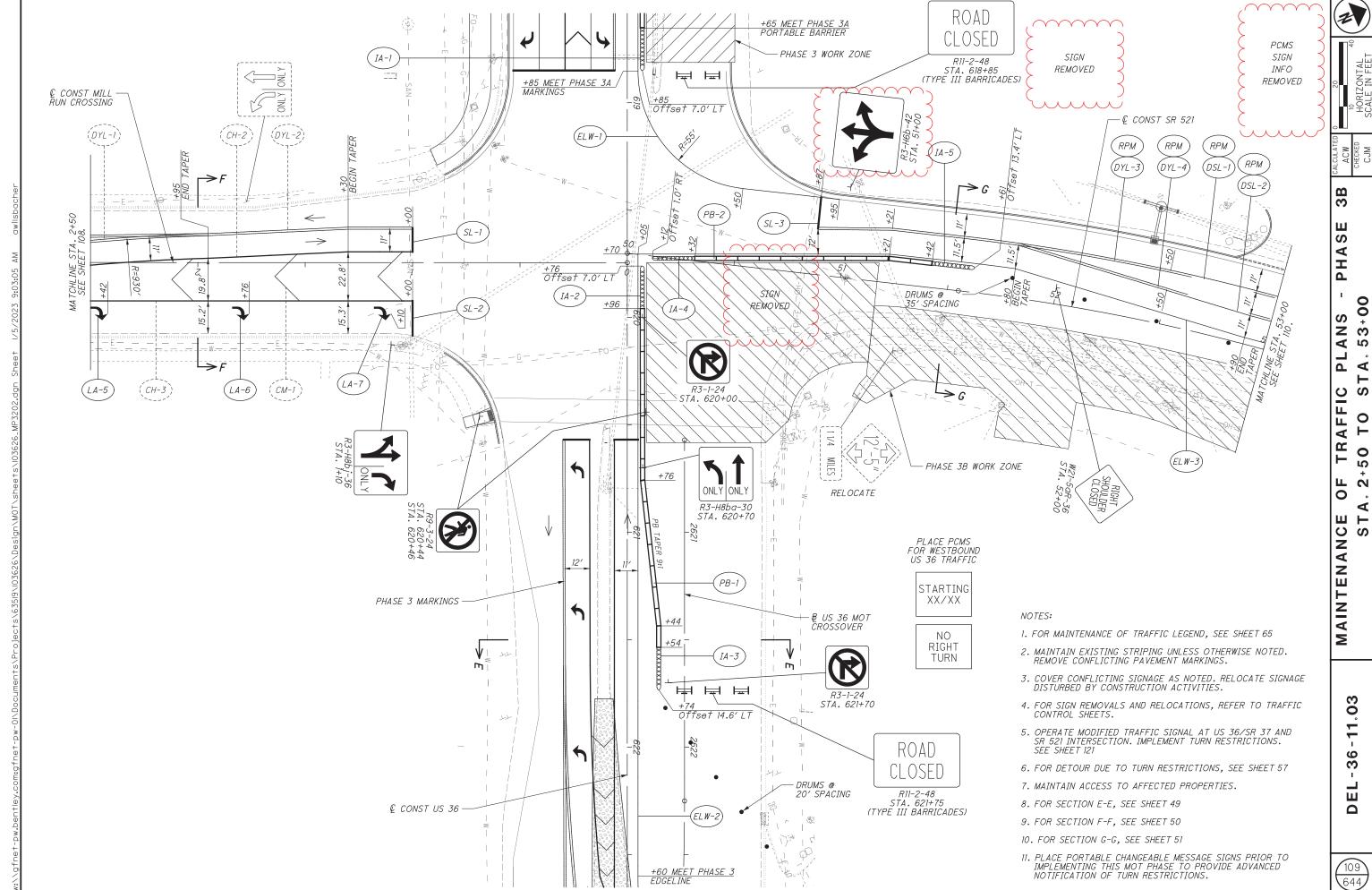
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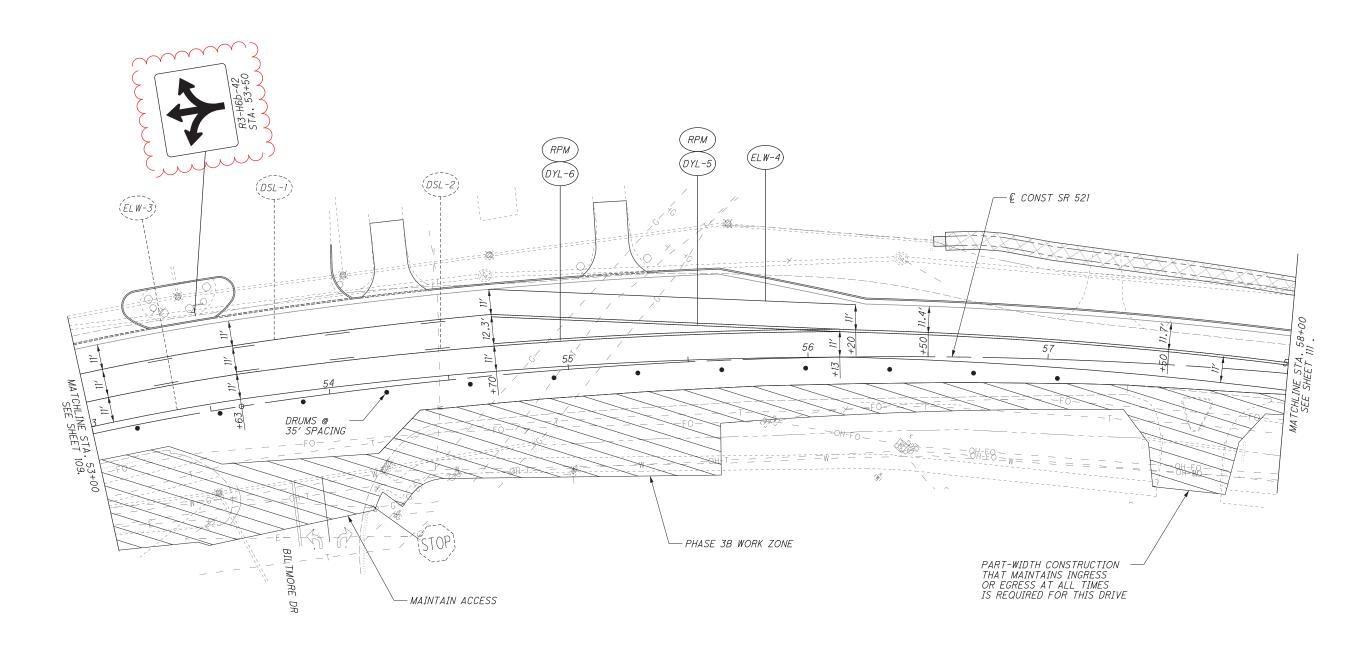


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NOTES:

- 1. FOR MAINTENANCE OF TRAFFIC LEGEND, SEE SHEET 65
- 2. MAINTAIN EXISTING STRIPING UNLESS OTHERWISE NOTED. REMOVE CONFLICTING PAVEMENT MARKINGS.
- 3. COVER CONFLICTING SIGNAGE AS NOTED. RELOCATE SIGNAGE DISTURBED BY CONSTRUCTION ACTIVITIES.
- 4. FOR SIGN REMOVALS AND RELOCATIONS, REFER TO TRAFFIC CONTROL SHEETS.
- 5. MAINTAIN ACCESS TO AFFECTED PROPERTIES.
- 6. REFER TO MOT NOTES FOR ALL OPEN AND OVERNIGHT TRENCH WORK, ESPECIALLY BETWEEN STA. 57+00 AND STA. 59+00.



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CROSSING

PHASE 3B 521/MILL F PLAN -AT SR TRAFFIC 36/SR 37 OF US MAINTENANCE SIGNAL DETAILS -

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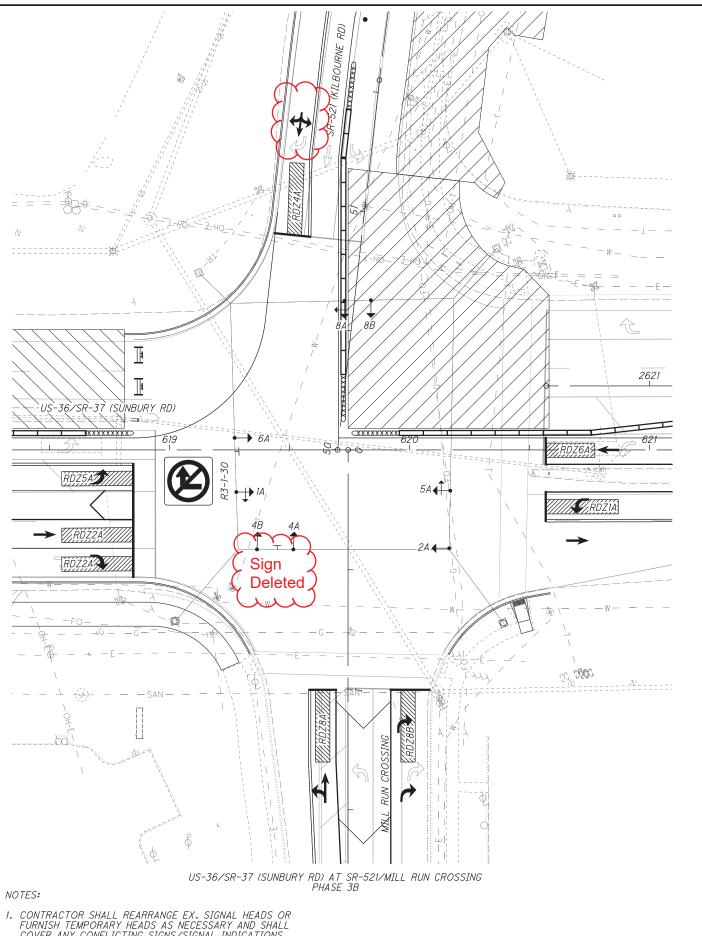
EXIST PROP TEMP. TRAFFIC SIGNAL, 3 UNIT HEAD, 12" TEMP. TRAFFIC SIGNAL, 3 UNIT HEAD, 12" WITH ARROWS

TEMP. TRAFFIC SIGNAL, → OR → ○

5 UNIT HEAD, 12"

LEGEND

SIGNAL SUPPORT POLE 0



- 1. CONTRACTOR SHALL REARRANGE EX. SIGNAL HEADS OR FURNISH TEMPORARY HEADS AS NECESSARY AND SHALL COVER ANY CONFLICTING SIGNS/SIGNAL INDICATIONS.
- 2. FOR MOT DETAILS, SEE SHEET 109.

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3. CONTRACTOR SHALL ADJUST AND COORDINATE SIGNAL PHASING AND TIMING FOR SIGNALS IN THE PROJECT AREA AS APPROVED BY PROJECT ENGINEER.

TRAFFIC

SIGNAL TIMING CHART

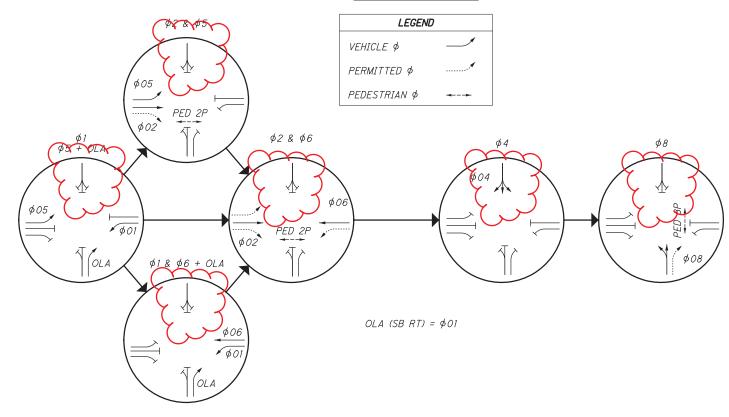
	INTER MAINTAINING	SECTION:				521 / MI	LL RUN C	ROSSING		
	MAINTAINING	AGENC 1.		ENTRY:	YES	РИЛ	SES:	2	8 6. 4 8	8
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	<u>START UP</u>			IN RFD:	TLS	RING 1	- -		RING 2	-
START IN:	ALL-RED FLAS	SH .				11110 1				
TIME FOR: FLASH , ALL		6	OVERLAF	>			A	В	С	D
FIRST PHASE(S):	2 & 6									
COLOR DISPLAYED:	GREEN		PHASES				1	-	-	-
INTERVAL OR FEATURE					CONT	ROLLER	MOVEMEN	T NO.		
INTERSECTION MOVEME	NT (PHASE)		1	2	-	4	5	6	-	8
DIRECTION			WB LT	EB	-	SB	EB LT	WB	-	NB
MINIMUM GREEN (INITIA	L)	(SEC.)	6	20	-	10	6	20	-	10
ADDED INITIAL	*(SEC./AC	TUATION)	-	-	-	-	-	-	-	-
MAXIMUM INITIAL		(SEC.)	-	-	-	-	-	-	-	-
PASSAGE TIME (PRESET	=	(SEC.)	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	ON	*(SEC.)	-	-	-	-	-	-	-	-
MINIMUM GAP		*(SEC.)	-	-	-	-	-	-	-	-
TIME TO REDUCE		*(SEC.)	-	-	-	-	-	-	-	-
MAXIMUM GREEN I		(SEC.)	15	50	-	40	15	50	-	40
MAXIMUM GREEN II		(SEC.)	30	50	-	40	30	50	-	40
YELLOW CHANGE		(SEC.)	4.2	5.1	-	3.3	3.1	5.1	-	3.1
ALL RED CLEARANCE		(SEC.)	3.6	2.0	-	3.5	4.4	2.0	-	3.9
DELAYED GREEN (LPI) #		(SEC.)	-	-	-	-	-	-	-	-
FLASHING YELLOW ARR	OW DELAY°	(SEC.)	-	-	-	-	-	-	-	-
WALK		(SEC.)	-	9	-	-	-	-	-	12
PEDESTRIAN CLEARANCE		(SEC.)	-	19	-	-	-	-	-	33
		(ON/OFF)		OFF	-	OFF	OFF	OFF	-	OFF
RECALL		(ON/OFF)	OFF	ON	-	OFF	OFF	ON	-	OFF
1,510,007		(ON/OFF)		OFF	-	OFF	OFF	OFF	-	OFF
MEMORY		(ON/OFF)	OFF	OFF	-	OFF	OFF	OFF	-	OFF

^{*}VOLUME DENSITY CONTROLS

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PHASING DIAGRAM



RADAR DETECTION CHART

RDZIA WB LT PRESENCE 1 - - STOP-LINE 30 RDZ6A WB PRESENCE 6 - - STOP-LINE 30 RDZ5A EB LT PRESENCE 5 - - STOP-LINE 30 RDZ2A EB PRESENCE 2 - - STOP-LINE 30 RDZ4A SB PRESENCE 2 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 RDZ8B PRESENCE 8 - - STOP-LINE 30 RDZ8B PRESENCE 8 - - ADVANCE DETECTION *								
RDZ6A WB PRESENCE 6 - - STOP-LINE 30 RDZ5A EB LT PRESENCE 5 - - STOP-LINE 30 RDZ2A EB PRESENCE 2 - - STOP-LINE 30 RDZ4A SB PRESENCE 4 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	DETECTION ZONE	MOVEMENT	OR	ASSOCIATED PHASE	20	DELAY INHIBITED PHASE	PURPOSE	$\frac{1}{2}$
RDZ5A EB LT PRESENCE 5 - - STOP-LINE 30 RDZ2A EB PRESENCE 2 - - STOP-LINE 30 RDZ2A EB RT PRESENCE 2 - - STOP-LINE 30 RDZ4A SB PRESENCE 4 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ1A	WB LT	PRESENCE	1	-	-	STOP-LINE	30
RDZ2A EB PRESENCE 2 - - STOP-LINE 30 RDZ2A EB RT PRESENCE 2 - - STOP-LINE 30 RDZ4A SB PRESENCE 4 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ6A	WB	PRESENCE	6	-	-	STOP-LINE	30
RDZ2A EB RT PRESENCE 2 - - STOP-LINE 30 RDZ4A SB PRESENCE 4 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ5A	EB LT	PRESENCE	5	-	-	STOP-LINE	30
RDZ4A SB PRESENCE 4 - - STOP-LINE 30 RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ2A	EB	PRESENCE	2	-	-	STOP-LINE	30
RDZ8A NB PRESENCE 8 - - STOP-LINE 30 RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ2A	EB RT	PRESENCE	2	-	-	STOP-LINE	30
RDZ8B NB RT PRESENCE 8 - - STOP-LINE 30 - EB PULSE 2 - - ADVANCE DETECTION *	RDZ4A	SB	PRESENCE	4	-	-	STOP-LINE	30
- EB PULSE 2 ADVANCE DETECTION *	RDZ8A	NB	PRESENCE	8	-	-	STOP-LINE	30
	RDZ8B	NB RT	PRESENCE	8	-	-	STOP-LINE	30
	-	EB	PULSE	2	-	-	ADVANCE DETECTION	*
- WB PULSE 6 - - ADVANCE DETECTION *	-	WB	PULSE	6	-	-	ADVANCE DETECTION	*

^{*}ADVANCE DETECTION ZONE LENGTH SHALL BE AS LONG AS DETECTOR CAN RELIABLY DETECT WITHIN LANE.



				SHEET NUMBER	,		,					FUNDING			. , ,	I ZITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
3 2	27 34 13	32 13	33 146 235	262 270 274	297 30	2 313	348 366	388 4	176 01/	/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/PV	06/ENH/31	LICIVI	EXT.	TOTAL	ONTI	DESCRIPTION	NO.
														(DAADWAY	
S										LS				 		201	11000	LS		ROADWAY CLEARING AND GRUBBING	
3		5								2	.3			ار کا ایا ایا ایا ایا ایا ایا ایا ایا ایا 		202	20010	5	EACH		
		549	135							2595	189			-		202	23000	2784			
		756	,50							3262	494			(,		202	30000	3756	SF	WALK REMOVED	
		3								3	10 1					202	30600	3	SY		
														\vdash		1					
		7								7				7		202	30200	7	FT	STEPS REMOVED	
	4	13	14							43	14			(202	30800	57	SY	TRAFFIC ISLAND REMOVED	
	6.	115	819							6301	633			7		202	32000	6934	FT	CURB REMOVED	
	22	280								2280				>		202	32500	2280	FT	CURB AND GUTTER REMOVED	
	i	18								18						202	32600	18	FT	GUTTER REMOVED	
		265								3792	473			٧		202	35100	4265		PIPE REMOVED, 24" AND UNDER	
		60								760						202	38000	760		GUARDRAIL REMOVED	
		6								6						202	53100		<i>EACH</i>	MAILBOX REMOVED	
										LS				- (202	56000	LS		BUILDING DEMOLISHED, PARCEL NO. 7-WDV, 1 STORY FRAME	27
	L	.5								LS				\	-	202	56000	LS		BUILDING DEMOLISHED, PARCEL NO. 7-T, 1 STORY FRAME	27
		.S								15				\		202	56000	LS		DUTI DINC DENOLISHED BARCEL NO. 9 WOV 1 STORY BRICK	27
	7									LS 7		 		 (.	1	202	56000 56100		FACU	BUILDING DEMOLISHED, PARCEL NO. 8-WDV, 1 STORY BRICK BUILDING DEMOLISHED: 1-STORY SHED	27 27
	2	_					+ +			2				ا 		202	56100		EACH		27
		7								5	2			\vdash		202	58000		EACH		21
	3									34	3			\		202	58100		EACH		
														(.)===	00,00				
		3								3				<u>۲</u>		202	58200	3	EACH	INLET REMOVED	
	1.	31								131				>		202	75000	131	FT	FENCE REMOVED	
	L	.S								LS				6		202	98000	LS		REMOVAL MISC.: FENCE, GATE, BRICK COLUMNS	28
	L	.S									LS			(202	98000	LS		REMOVAL MISC.: CONCRETE LAWN ORNAMENTS	28
	L	.5								LS				۲		202	98000	LS		REMOVAL MISC.: COLUMN	28
														<u> </u>							
	L									LS						202	98000	LS		REMOVAL MISC.: CONCRETE PADS	28
		14								8	6					202	98100		EACH		27
		11								9	2			<u> </u>		202	98100		EACH		27
		16								14	2					202	98100		EACH		27
_		9								3	6			(_	-	202	98100	9	EACH	REMOVAL MISC.: IRRIGATION/SPRINKLER	27
_		2								2				- 		202	00100	2	EACH	DENOVAL NICC • DUNDOTED /DONATION DIN	20
_		2 4									4			\		202	98100 98100	2	EACH		28 28
		22								22	7			-		202	98100			REMOVAL MISC.: LANDSCAPE, TIMBER	28
_		20								20				(.		202	98200	20		REMOVAL MISC.: WOOD BARRIER	28
		34								134				۲		202	98200	134	FT		28
		-												\vdash		1	00200	,,,,			
	2	23								23				-		202	98200	23	FT	REMOVAL MISC.: CHAIN	28
		32								32						202	98200	32		REMOVAL MISC.: WOODEN FENCE	28
	i	14								14				7		202	98200	14	FT	REMOVAL MISC.: HANDRAIL	28
	7	70								70				>		202	98200	70	FT	REMOVAL MISC.: CHAIN LINK FENCE	28
	6	61								31	30					202	98200	61	FT	REMOVAL MISC.: LANDSCAPE STONE EDGING	28
	,	5									5			>		202	98300	5	SY	REMOVAL MISC.: RIPRAP	28
	39									239				<u> </u>		202	98300	239		REMOVAL MISC.: DRIVEWAY REMOVAL AND REPLACEMENT	27
008			1003							41687	1324			(203	10000			EXCAVATION	
'61			25							4326	460					203	20000	4786			
	2.	24	6690							6690	224					203	35120	6914	CY	GRANULAR MATERIAL, TYPE C	
		1								,				-	-	1	00000	,	FACIL	DOADWAY MICC. MANUOLE AD MICTED TO COADE	20
		7 271	31242 3845				+ + -			70000	3310	<u> </u>	-	 	-	203	98600	12710		ROADWAY, MISC.: MANHOLE ADJUSTED TO GRADE SUBGRADE COMPACTION	28
_		231	6690				+ +			39008 6690	3310			۲		204	10000 13000	42318 6690			
)		+	11				+ + -			30	1			\mapsto		204	45000			PROOF ROLLING	
	+ +	+	17232							17232		 		<u> </u>		204	50000	17232	SY	GEOTEXTILE FABRIC	
-										.,)	23000		3,		
	1	12								112				<u> </u>		606	15050	112	FT	GUARDRAIL, TYPE MGS	
		1								1				 		606	26150		-	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
		1								1		 		(_		606	26550			ANCHOR ASSEMBLY, MGS TYPE T	
	1.	31								131				Γ		607	23000	131		FENCE, TYPE CLT	
		00								400				一		607	98000	400			27
														ح		 人					
	199	995								17544	2451			(608	10000	19995	SF	4" CONCRETE WALK	
		7								7				7		608	40000	7		CONCRETE STEPS, TYPE A	
										1128	476	I				₹ 608	52000	1604	SF	CURR DAME	
	16	76								248	128				-	608	53020	376		CURB RAMP DETECTABLE WARNING	

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	1	T		ı			NUMBER				_					FUNDING		- \-		— <mark> </mark>	ITEM	GRAND	UNIT	DESCRIPTION SHE
3	27 34	132	133	146 23	5 26	2 27	70 274	297 302	2 31	3 348	366	388	476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/PV	06/ENH/	31) ' ' ' ' ' '	EXT.	TOTAL	01121	DESCRIPTION SHE
																		7		1)				
_			6			_			_					6				 	-	SPECIAL	69050100	6	EACH	ROADWAY - CONTINUED FROM PREVIOUS PAGE MAILBOX SUPPORT SYSTEM, SINGLE 26
	LS		6											LS				├	<u> </u>		69070000		EACH	ENVIRONMENTAL (DISPOSAL OF OIL/WATER SEPARATOR) 27
	LJ													LJ					†	J LOTAL	03070000	LJ		ENVINORMENTAL (DISTOSAL OF OIL) WATER SEPARATORY
																				1)				EROSION CONTROL
0		4												14				\vdash		601	21050	14	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
		35												35				>		₹ 601	21051	35	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT, AS PER PLAN 28
		6												3	3					2 601	32204	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC
2													4	1	1	4				659	00100	6	EACH	
33													4960	2624	209	4960		<u> </u>		659	00300	7793	CY	TOPSOIL
													44074	07075	400.4	44074					10000	70157	014	
519										_			44634	23635	1884	44634				659	10000	70153	SY	SEEDING AND MULCHING
22 22										_			2231 2231	928 928	94 94	2231 2231		- (-	659	14000 15000	3253 3253	SY SY	
76													6.22	2.50	0.26	6.22		ا ۲		659	20000	8.98	TON	
22										_			9.22	3.83	0.39	9.22		\		659	31000	13.44	ACRE	
													0122	0.00	0.00	0,22				12***	0,000	10111	710712	La 4176a
0													367	100	10	367				659	35000	477	MGAL	WATER
08													201	4637	471	201				659	40000	5309	MSF	MOWING
			1041											911	130			>		4 670	00710	1041	SY	·
														LS	LS					832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN
						+					-			LS	LS			 	-	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS
-						+			-		+			10	10			<u>۲</u>		070	15010	10		STADM WATER DALLITIAN DREVENTION INSPECTION SAFTWARE
										_				LS 121952	LS 25260			\	-	832	15010 30000	LS 147212	EACH	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE EROSION CONTROL
														121332	23200			-	†	7052	30000	191212	LACII	ENOSION CONTROL
																								DRAINAGE
					LS	ŝ								LS				(202	11000	LS		STRUCTURE REMOVED
					LS	5								LS						503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN 26.
					870	6								876				>		2 503	21100	876	CY	
					416									4168						509	10000	4168	LB	
					11	'								11						511	46010	11	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
					7.0									7.0					-	13	40510	7.0	0)/	OLACO DOL COMODETE. FORTIMO
					30	_								30 3				\rightarrow		511	46510	30	CY	CLASS OCI CONCRETE, FOOTING CLASS OCI CONCRETE, HEADWALL
					42					_				42					-	512	46610 10100	3 42	CY SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
					252	_								252					-	512	33000	252	SY	
					225	_								225				 		512	33010	225	SY	
																		\		1				
					4									4						2 516	13600	4	SF	1" PREFORMED EXPANSION JOINT FILLER
					7									7						518	21200	7	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
					343									345				٢		SPECIAL	53013000		SF	
		0.7			120	0								120						601	32104	120		ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC
		2.7								_				2.5	0.2			-		602	20000	2.7	CY	CONCRETE MASONRY
50						220	265			-				1393	1022	-		(.	 	605	13300	2415	ET	6" UNCLASSIFIED PIPE UNDERDRAINS
							142							6971	571			T (605	14000	7542		6" BASE PIPE UNDERDRAINS
0						1,0	7.2							50	011			\vdash		605	31100	50		AGGREGATE DRAINS
						76	50							640	120			>		611	00510	760		6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
0														50						611	01500	50	FT	6" CONDUIT, TYPE F
		7				\perp								7				ト		611	02000	7		8" CONDUIT, TYPE C
		686				+					-			644	42			$\vdash \vdash$		611	04400	686		12" CONDUIT, TYPE B
+		1278				+			_		+			1158	120	-		 	-	611	04600	1278		12" CONDUIT, TYPE C
-		682 283				+					+			601 283	81			 	-	611	04900 05900	682 283		12" CONDUIT, TYPE D 15" CONDUIT, TYPE B
		203				+								203				<u> </u>	1	1 011	00300	203	FI	IN CONDUIT, THE D
			372			+					+			160	212			\vdash		611	06100	372	FT	15" CONDUIT, TYPE C
			126			+								126	T					611	06400	126		15" CONDUIT, TYPE D
			113			\top								105	8	1			1	611	07400	113		18" CONDUIT, TYPE B
			132											132				7		611	07600	132	FT	18" CONDUIT, TYPE C
			194											69	125			>		611	08900	194	FT	21" CONDUIT, TYPE B
																		\		ノ				
			17			\perp								17				+-		611	09100	17		21" CONDUIT, TYPE C
\perp			188			+					+			110	78			ト		611	10400	188		24" CONDUIT, TYPE B
			849			_					-			849				 		611	10600	849		24" CONDUIT, TYPE C
_			251			+			-		+			251				 (-	611	10900	251		24" CONDUIT, TYPE D
-			193			+								193				 	-	611	11900	193	<i>F1</i>	27" CONDUIT, TYPE B
			43			-			-	+				43		-		$\vdash \vdash \succ$	-	611	12400	43		27" CONDUIT, TYPE D
	1		1 70	1	1	1	1 1	1	1	1	1	1 1		70					1	■ / UII	1 12700	1 7J	1 / /	ZI OUNDOII. III L D

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							ET NUMBER							FUNDING				TEM	ITEM	GRAND TOTAL	UNIT	DESCRIPTION s
	27	34	132	133	146 235	262	270 274	297 302	2 313 348	366	388 476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/PV	06/ENH/31	TIEM	EXT.	TOTAL	ONTI	DESCRIPTION S
																\		7				DRAINAGE - CONTINUED FROM PREVIOUS PAGE
				362								362				\vdash	\vdash	611	16600	362	FT	36" CONDUIT, TYPE C
				738								738				>		₹ 611	16900	738		36" CONDUIT, TYPE D
				80									80					611	52202	80		14" X 23" CONDUIT, TYPE B, 706.04
				76									76					611	52204	76	FT	14" X 23" CONDUIT, TYPE C, 706.04
																>		く				
						179						179				\ \		2 611	94901	179	FT	
				11								9	2					611	98150	11	EACH	
				1								1						611	98151	1		CATCH BASIN, NO. 3, AS PER PLAN
+				42								34	8			>		611	98180	42	EACH	,
+				2								1	1			-	\vdash) 611	98181	2	EACH	CATCH BASIN, NO. 3A, AS PER PLAN
+		_		2						+		2				(611	98470	2	EACH	CATCH BASIN, NO. 2-2B
+		-		3								2	1				 	611	98510	3	EACH	
+		_		1								1				\vdash		611	98540	1		CATCH BASIN, NO. 2-4
				1								,	1			>		611	98630	1		CATCH BASIN ADJUSTED TO GRADE
				1								1	<u> </u>				1	611	98710	1		INLET, NO. 2-6
T												1				<u> </u>)				
Ι				44								35	9			<i>></i>		611	99574	44	EACH	
Γ				1								1				-		611	99586	1	EACH	,
				2								2						611	99654	2	EACH	
\perp				1								1	1			۲	 	611	99660	1	EACH	
_												2				>		611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET
+						101						101				-	├	1017	41001	101	01/	LOW CTREMETH MORTAR RACYCUL AC RED DLAN
				1		464						464				(-	995 895	41201 10040	464 1	EACH	LOW STRENGTH MORTAR BACKFILL, AS PER PLAN MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4
╁		\rightarrow		1		+						- /				<u> </u>	1	7095	10040	1	EACH	MANUFACTURED WATER QUALITY STRUCTURE, TIPE 4
+																\rightarrow		\prec				PAVEMENT
\vdash		_			5920										2638	3282		254	01000	5920	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"
H					1276										1276	(1 1	254	01000	1276		PAVEMENT PLANING, ASPHALT CONCRETE, 6"
$^{+}$					7784							7296	488		72.70	\		301	56000	7784		ASPHALT CONCRETE BASE, PG64-22, (449)
T			1215		4892 351							6126	332			>		₹304	20000	6458	CY	
					326							156	170					304	20001	326	CY	AGGREGATE BASE, AS PER PLAN
)				
					4121 92							3698	515			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		407	20000	4213	GAL	
			118									118				\ \ \		441	70000	118		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
L					59							53	6					441	70500	59	CY	
-					82	-						73	9		47.40	- (441	70700	82	CY	
\vdash					1568										1349	219		442	10001	1568	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 76-22M, AS PER PLAN
╀		-+			32	+						+			32	 	\vdash	442	10001	72	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), 88-22M, AS PER PLAN
+		-			1674							1579	95		52			442	10080	1674		ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)
+		$\overline{}$			148							148	- 00				1	452	10050	148	SY	
					2071							1733	338			~	1	452	12050	2071		8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS
			11265									9541	1724			>	1	₹609	12000	11265	FT	
																						·
			3457		389							3655	191					609	26000	3846	FT	CURB, TYPE 6
			789									584	205			>		609	26001	789		CURB, TYPE 6, AS PER PLAN
L			520									520				<u> </u>	oxdot	609	54001	520		6" CONCRETE TRAFFIC ISLAND, AS PER PLAN
					83							37	46					609	57000	83		8" CONCRETE TRAFFIC ISLAND
					685							236	449			(\vdash	SPECIAL	69012060	685	SY	PAVEMENT OVERLAY FABRIC COMPOSITE
																/		 				WATER WARK
							790					790						SPECIAL	20270000	700	ET	WATER WORK FILL AND PLUG EXISTING CONDUIT, 6"
		-					251			+		251				(20270000			FILL AND PLUG EXISTING CONDUIT, 6" FILL AND PLUG EXISTING CONDUIT, 12"
\vdash							1			+		1						638	07490	1		8" GATE VALVE
							4			+		4				\vdash		638	10400	4	EACH	
+		-+				+	11					10	1			\ \		638	10480	11	EACH	
\vdash		-+				+	"					1				()		· · ·		
							23					21	2			۲		638	10800	23	EACH	VALVE BOX ADJUSTED TO GRADE
							23					23				 		SPECIAL	63820048	23	FT	6" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)
T							203					203						SPECIAL	80828088	203	FT	8" WATER MAIN DIP SLASS 53 MECHANICAL JOINTS AND FIXTINGS (CINY OF DELAWARES WITHO-3.00
F							97					97						SPECIAL	63820184	97	FT	12" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)
							410					410				7		SPECIAL	63820224		F1	16" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)
																>		7	W		4	
				ı T			5					4	1						63820750			6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-9.0)
								1 1	1 1	1	1	5				ı r	ı l	SPECIAL	63820750	5	EACH	6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-10.0)
							5					· · ·										
							192					192				>			63820776			1 1/2" POLYETHYLENE WATER SERVICE LINE (CITY OF DELAWARE)
												· · ·				>		638 638	63820776 98000 98000	4	EACH	

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								T NUMBER								FUNDING				TEM	ITEM	GRAND	UNIT	DESCRIPTION SH
3 :	27 :	34	132	133	146	235	262	270 274	297 302	2 313 3	48 3	66 388	476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/P	06/ENH/31	₹ ™	EXT.	TOTAL	ONTI	DESCRIPTION SH
																		<u> </u>		く				
								-										\longrightarrow	1	7070	00000	0	E A OU	WATER WORK - CONTINUED FROM PREVIOUS PAGE
							-	2			_			2				(638	98000	2	EACH	WATER WORKS, MISC: CURB STOP ADJUSTED TO GRADE (CITY OF DELAWARE) 2
_								7						/						638	98000	7	EACH	WATER WORKS, MISC.: METER PIT ADJUSTED TO GRADE (CITY OF DELAWARE) 2
_								5						5				 	1	638	98000	5	EACH	,
_		-						3			_			3	,					638	98000	3	EACH	,
_		-						19						18	/			(638	98000	19	EACH	WATER WORKS, MISC.: VALVE AND VALVE BOX REMOVED 2
_								1			_			4				—	1	638	98000	1	FACIL	WATER WORKS ANCE - WATER SERVICE LOWERING (CITY OF DELAWARE WITH 11)
							-	775			_			735				\longrightarrow	1	638	98600	735	EACH FT	,
								735 155						155				(638	98600	155	FT	
_		_						168			_			168					1	638	98600	168	FT	WATER WORKS, MISC.: PIPE ABANDONED (CITY OF DELAWARE) WATER WORKS, MISC.: 30" STEEL PIPE ENCASEMENT, OPEN CUT 2
								100		+ +				100				\longrightarrow	 	7030	30000	100	FI	WATER WORKS, MISC. 30 STEEL FIFE ENCASEMENT, OFEN LOT
																		>		ノ				SANITARY SEWER
									56					56						202	35100	56	FT	PIPE REMOVED, 24" AND UNDER
									2					2				(202	58000	2	EACH	MANHOLE REMOVED
									2					2				\	1	2 02	58001	2	EACH	,
									837					837						611	01800	837		8" CONDUIT, TYPE B (748.02)
									143					143						611	02000	143	FT	8" CONDUIT, TYPE C (748.02)
																		(<u> </u>		_		
+									8		_			8				 	1	611	99574	8	EACH	·
+									8		_			8				\longmapsto	 	611	99654	8	EACH	MANHOLE ADJUSTED TO GRADE
+															-			() —				LIGHTING
											10	60		120	40			(625	00450	160	EACH	
+												34		66	18			—	1	625	00480	84	EACH	
												48						<u> </u>	48	625	10481	48	EACH	·
\top												20		20					, ,	625	10490	20	EACH	
											ϵ	68		50	18			(625	14100	68	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP
																			1	く				
												761		17122	639			>	1	625	23200	17761	FT	
												731		1731				(625	23308	1731	FT	,
												920		4200	720			(625	23400	4920		NO. 10 AWG POLE AND BRACKET CABLE
												504		4454	2050			>	1	625	24400	6504	FT	· · · · · · · · · · · · · · · · · · ·
											8	56		856						625	24400	856	FT	DUCT CABLE, MISC.:2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES 3.
_																		(<u> </u>				
												54		537	17			<i>`</i>	1	625	25400	554	FT	
												859		1157 3702	202			\longrightarrow	1	625	25902 25920	1359		CONDUIT, JACKED OR DRILLED, 725.04, 3" CONDUIT, MISC.: DUCT BANK 3.
												814 00		200	112			(625	25920	3814 200	FT	CONDUIT, MISC.: DUCT BANK CONDUIT, MISC.: VUNDERDRAINOUTLETY 3.
												15		200	95			(625	26253	115		LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III-FULL CUTTOFF-MEDIUM, 3000K-CCT, AS PER PLAN
											- + '	10		20	- 55			—	1 1	3020	20203	7 110	LACI	Committee, Contentional, Social State (LED), IES III TOLE COTTON MEDICIN, SOCIAL COT, ASTER TEAM 2
+												18		1		1		>	48	625	27403	48	FAOH	LUMINAIRE, POST TOP, SOLID STATE (LED) IES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN
												715		5648	2067				, ~~ 		29000			TRINCH THE REPORT OF THE PARTY
												702		3702				(625	29001	3702		TRENCH, AS PER PLAN 3
												34		30	4			\rightarrow	1	625	30700			PULL BOX. 725.08. 18"
												8		6	2			>	1	625	31600	8	EACH	, ,
															1			(<u></u>				·
											6	58		50	18					625	32000	68	EACH	GROUND ROD
												2		2				>		625	34001	2	EACH	POWER SERVICE, AS PER PLAN 3.
\perp											11-	417		9350	2067					625	36010	11417	FT	UNDERGROUND WARNING/MARKING TAPE
												2							2	625	98000	2	EACH	LIGHTING MISC.: LANDSCAPE-MONUMENT SIGN LIGHT 3
												4							4	625	98000	4	EACH	LIGHTING MISC.: LANDSCAPE-ABUTMENT LIGHT 3
																		>						TO FETO CONTROL
-										407				366	41				-	2 621	00100	407	EACH	TRAFFIC CONTROL
+									2					2	41			(625	32000			GROUND ROD
+		+							203.		+			139.0	64.0					630	02100	203.0		GROUND MOUNTED SUPPORT, NO. 2 POST
+		$\overline{}$							1545.		-			1285.0	260.0			\longmapsto	 	630	03100	1545.0	FT	·
+		_							94.0		_			56.0	38.0			\		630	08520	94.0		STREET NAME SIGN SUPPORT, NO. 3 POST
+														T	l			()				**********
\top									39					32	7					630	08600	39	EACH	SIGN POST REFLECTOR
_									1					1				>		630	21200			OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12
									1					1						630	21201			OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12, AS PER PLAN 3
									6					A & A						630	75000			SIGN ATTACHMENT ASSEMBLY
									975				4	762	213				1	630	80100	975	SF	SIGN, FLAT SHEET
																		<u> </u>		7		\mathcal{L}		
				_		1			204	1	1	1	1	204	I	I	1	ı (ı I	630	80224	204	SF	SIGN, OVERHEAD EXTRUSHEET
														•			ļ	_						,
									14					8	6			\		630	80500			SIGN, DOUBLE FACED, STREET NAME
										1				•	6					630 630 630	80500 81200 84510	204	SF	,

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								T NUMBER								FUNDING		(Y Y Y	DITEM	ITEM	GRAND	UNIT	DESCRIPTION SEE SHEET
3	27	34	132	133	146	235	262	270 274	297 302	2 313 34	8 36	6 388	476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/PV	06/ENH/31	CI	EXT.	TOTAL	CIVII	DESCRIPTION NO.
																		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		K				TRAFFIO CONTROL CONTINUED FROM PREVIOUS RACE
									180					150	30			 		630	84900	180	EACH	TRAFFIC CONTROL - CONTINUED FROM PREVIOUS PAGE REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
									100					100	30			\vdash		7	0 1300	100	LACIT	NEMOVAL OF SHOOME MOONTED STON AND DISH OSAL
									2					2				>		630	85000	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE
									116					92	24					630	86002	116	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
									2					2				(630	97700	2	EACH	SIGNING, MISC.: FOUNDATION GROUND MOUNTED SIGN 338
						-			1 12					12				<u> ۲</u>		630 631	97700 97700	12	EACH EACH	SIGNING, MISC.: PORTABLE CHANGEABLE MESSAGE SIGN 301 SIGN LIGHTING MISC.: RECTANGULAR RAPID-FLASHING BEACONS 301
									12					12				\vdash		2001	91700	12	EACH	SIGN LIGHTING MISC.: RECTANGULAR RAPID-FLASHING BEACONS
	-									5840				5075	765			-		644	00400	5840	FT	CHANNELIZING LINE, 8"
										528				433	95					644	00500	528	FT	
										2966				2279	687					644	00620	2966	FT	,
										1213				941	272			۲		644	00700	1213	FT	TRANSVERSE/DIAGONAL LINE
										61				61				\		644	00720	61	FT	CHEVRON MARKING
						-				198	-				198			-		644	01200	198	FT	PARKING LOT STALL MARKING
	-									80				68	136					644	01300	80	EACH	
										313				238	75					644	01514	313	FT	
										29					29			\		644	30000	29	FT	REMOVAL OF PAVEMENT MARKING
										2.18				1.70	0.48			>		644	50400	2.18	MILE	PAVEMENT MARKING, MISC.: CENTERLINE, 4" 301
										0.05				2.42				 		1)	F2.422	0.55	1.77. =	DAVIGUENT MADVINO MICO - EDOC 17/5 4/
-+	\rightarrow	-+				\rightarrow	-			2.65	+			2.46	0.19			 		644	50400	2.65		PAVEMENT MARKING, MISC.: EDGE LINE, 4" PAVEMENT MARKING, MISC.: LANE LINE, 5" 301
+	-+	+				+	-			0.41	+			0.38	0.03	-	-	 		644	50400	0.41	MILE	PAVEMENT MARKING, MISC.: LANE LINE, 5" 301
																		 		K				TRAFFIC SIGNALS
										81	5			815				\		625	23000	815	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE
										35	0			350				\		625	23400	350	FT	
_										44	_			444						625	25400	444	FT	
										22				223				<u>ر</u>		625	25408	223		CONDUIT, 2", 725.051
						-				13	5			135				 		625	25604	135	FI	CONDUIT, 4", 725.051
										4				4				├		625	26253	4	EACN	
	-+									1 6				7					6	625	27551	4 6		LUMINAIRE, DECORATIVE, IES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN 341
										47	_			472					Ť	625	2000		FT	IRENCA AS PER PLAN 341
										16	_			160				ا		625	29401	160	FT	TRENCH IN PAVED AREAS, AS PER PLAN 340
										3	'			3				>		625	30700	3	EACH	PULL BOX, 725.08, 18"
																		\\)				
										1				5						625	30706	1	EACH	, ,
						_				2				20						625	30730 32000	5 20	EACH EACH	GROUND ROD
	-+									2	_			4				ا		630	79100			SIGN HANGER ASSEMBLY, MAST ARM
										1:	_			15						630	79500	15		SIGN SUPPORT ASSEMBLY, POLE MOUNTED
																		\		1)				
										34	.5			<i>34.</i> 5						630	80100	34.5	SF	SIGN, FLAT SHEET
										8	_			8				7 ــــــــــــــــــــــــــــــــــــ		630	80511	8		SIGN, STREET NAME, AS PER PLAN 341
_										13	_			19				 		632	05007	19	EACH	
										5	_			9 13				-		632	05087	9	EACH	
						-				1.)			13						632	20731	13	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN 342
	-									10)			10						632	20751	10	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN 342
										2.	_			25				 		632	25001			COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN 342
										9	1			9				>		632	25010	9	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD
										15	_			1517						632	40200	1517		SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG
										25	89			2589				(,		632	40700	2589	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
										<u> </u>				7				۲		1	0.4010	7	540U	CIONAL CURRORT FOUNDATION
						-				7				9				 		632	64010 64020	7		SIGNAL SUPPORT FOUNDATION PEDESTAL FOUNDATION
	-+									37	_			377				\vdash		632	68200	377		POWER CABLE, 2 CONDUCTOR, NO. 6 AWG
										2	_			2				\		632	70001			POWER SERVICE, AS PER PLAN 341
										2	'			2				(632	70400	2	EACH	CONDUIT RISER, 2" DIAMETER
																		7		ム				
	\longrightarrow	\rightarrow								i				1				 		632	79101	1		COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN 341
										1				1		<u> </u>		\vdash		632	79111	1	EACH	
	-					+				1				1				 		632	79131 79131	1	EACH EACH	· · · · ·
				1		-			+ + -	+	_			/		 	—	I (632	79131	1	EACH	
					- 1				1	'	- 1			1										
										 				1				 		K			LAGII	COMBINATION SIGNAL SOLITORY, THE TO 01.22, DESIGN IS, AS TENTERN 541
										2	1			2				>		632	79151	2	EACH	
										2	_			2 3						K		2 3		COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN 341
																				632	79151		EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN SIGNAL SUPPORT, MISC.: SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.22 MAST ARM (GREATER THAN 39' IN LENGTH) 340

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							SHEE	ET NUMB	ER									FUNDING		(TTEM.	ITEM	GRAND	UNIT	DESCRIPTION	SEE
3	27	34	132	133	146	235	262	270 2	74	297 30	02 3	313	348 366	388	476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/P	06/ENH/31	14 IEM	EXT.	TOTAL	ONTI	DESCRIFTION	SHEET NO.
																					1	13				TRAFFIC SIGNALS - CONTINUED FROM PREVIOUS PAGE	
													1			1				 	•	632	90008	1	EACH	PEDESTAL, 15', TRANSFORMER BASE	
													2			2				\		632	90101	2		REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	341
													7			7				 	<u>-</u>	632	00104	7	FACIL	DELICE OF TRAFFIC CONTROL ITEM DEFENDE CONFIDMATION LIGHT	
-													7			15				\			90104	7	EACH	REUSE OF TRAFFIC CONTROL ITEM, PREEMPT CONFIRMATION LIGHT	7/7
													LS			LS				(-	632	90300	LS	E4011	SIGNALIZATION, MISC.: SYSTEM INTEGRATION	343
-									_				2			2				 	1	633	65511	2		CABINET, TYPE TS-2, AS PER PLAN	344
													2			2				\rightarrow		633	67100	2		CABINET FOUNDATION	7.45
													2			2				(633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	345
													1			1						809	69001	1	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	344
													2			2						809	69123	2	EACH	ATC CONTROLLER, AS PER PLAN, V6.24	344
													4			4				\	•	4 809	69200	4	EACH	EMERGENCY VEHICLE PREEMPTION	
													2			2				\ \ \ \ \ \		816	30001	2	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN (360 DEGREES)	346
																				\					+	LANDSCAPING	
														106						(106	661	14000	106	FACH	PERENNIALS, (#2), CALAMAGROSTIS X ACUTIFLORA CHEJU-DO	
														29							29	661	14000	29		PERENNIALS, (#1), NEPETA X FAASSENII WALKERS LOW	
														600						\rightarrow	600	661	14000	600		PERENNIALS, (#1), SEDUM SPURIUM RED CARPET	
														39							39	661	20040	39		DECIDUOUS SHRUB, 2' HEIGHT, CORNUS SERICEA KELSEYI	
														33						(33	661	20040	33		DECIDUOUS SHRUB, 2' HEIGHT, HYDRANGEA MACROPHYLLA ENDLESS SUMMER	
																						K					
														85						\	85	661	30000	85		EVERGREEN SHRUB, (12" HT.), JUNIPERUS CHINENSIS SARGENTII VIRIDIS	
														250						 	250	661	30000			EVERGREEN SHRUB, (12" HT.), JUNIPERUS CONFERTA BLUE PACIFIC	
														48						(48	661	30000	48		EVERGREEN SHRUB, (12" HT.), JUNIPERUS SABINA BUFFALO	
														4						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	661	40080	4		DECIDUOUS TREE, 2" CAL, EUCOMMIA ULMOIDES	
														3						\rightarrow	. 3	661	40080	3	EACH	DECIDUOUS TREE, 2" CAL, FAGUS GRANDIFOLIA	
+														43						\rightarrow	43	661	40080	43	FACH	DECIDUOUS TREE, 2" CAL, GINKGO BILOBA AUTUMN GOLD	
\dashv														2							2	661	40080	2		DECIDUOUS TREE, 2" CAL, PLATANUS OCCIDENTALIS	
														13							13	661	40080	13		DECIDUOUS TREE, 2" CAL, QUERCUS RUBRA	
														35						\rightarrow	35	661	40080	35		DECIDUOUS TREE, 2" CAL, ULMUS AMERICANA PRINCETON	
														15						\	15	2 661	40080	15		DECIDUOUS TREE, 1.5" CAL, AMELANCHIER LAEVIS LUSTRE	
														21							21	7 661	40080	21		DECIDUOUS TREE, 1.5" CAL, CERCIS CANADENSIS APPALACHIAN RED	
														20						 	20	661	40080	20		DECIDUOUS TREE, 1.5" CAL, CORNUS FLORIDA CHEROKEE BRAVE	
_														5						 	. 5	661	40120	5	EACH	DECIDUOUS TREE, 3" CAL, ACER RUBRUM OCTOBER GLORY	
														6						— (6	661	50160	6	EACH	EVERGREEN TREE, 8' HEIGHT, PICEA ABIES	
				_					-		+			2						 	2	SPECIAL	69098000	2	EACH	GATEWAY	396
				_					\rightarrow		+			770						 	770	SPECIAL	69098100	770	FT	GRAVEL MOW STRIP	389
														352						\rightarrow	352	SPECIAL	69098200	352	SF	SEGMENTAL RETAINING WALL	389
														2421							2421		69098200			SEGMENTAL LANDSCAPE WALL	389
														1350						(1350		69098200			RAILROAD ABUTMENT STONE WALL	389
														782							782		69098200			UNIT PAVERS	388
																				\	•	7					
														2730						\longrightarrow	2730	SPECIAL	69098200	2730	SF	STONE MULCH AT RAILROAD ABUTMENT	389
																				()				TRACK	
+															2			2		(202	20010	2	FACH	HEADWALL REMOVED	
															850			850		1	1	202	35100	850		PIPE REMOVED. 24" AND UNDER	
_															395			395		\rightarrow	 	202	35200	395		PIPE REMOVED, OVER 24"	
_															1			1		1 (202	58000	1		MANHOLE REMOVED	
															2			2				202	58100	2		CATCH BASIN REMOVED	
																				7		1					
_															71211			71211		 		203	10001	71211		EXCAVATION, AS PER PLAN	476
_															58722			58722		\		203	20001	58722		EMBANKMENT, AS PER PLAN	476
\rightarrow															8			8		 		601	34200	8		ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
															<u>4</u> 850			4 850		(1	602	20000 02500	<i>850</i>		CONCRETE MASONRY 8" CONDUIT, TYPE E, PERFORATED	
+				_					\rightarrow		+				000			000			1	1	02300	000	F 1	O CONDUIT, TIFE E, FENFONATED	
															395			395		\		611	16401	395	FT	36" CONDUIT, TYPE B, 707.19, AS PER PLAN	476
															2			2				611	98270	2		CATCH BASIN, NO. 4A	
															1			1		(611	99574	1		MANHOLE, NO. 3	
															520			520			1		69099500			RAIL ITEM, MISC.: RAILROAD FLAGGING	476
															9030			9030		 	<u> </u>	S PECIAL	90010000	9030	FT	RAIL ITEM, MISC.: TRACK REMOVED	476
-											\perp				1.0			1.0		 	-	CDEOTAL	00017000	1.0	+	DATE ITEM MICO - CUDIVEY AND LAVOUT FOR TRACKWORK ALTOWART AND DOCUMENT	- 475
+				-					-		+				LS 5537			LS 5537		 			90017000		CV	RAIL ITEM, MISC.: SURVEY AND LAYOUT FOR TRACKWORK ALIGNMENT AND PROFILE RAIL ITEM, MISC.: SUB-BALLAST - 12" DEPTH	475
\rightarrow				_					-		+	+		+ +	107			107			1		90019000	107		RAIL ITEM, MISC.: SUB-BALLAST - 12 DEPTH RAIL ITEM, MISC.: BALLAST OVER BRIDGE WATERPROOFING	475
- 1											-				101	1		101		\longmapsto	 	Z LOIAL	30010000	101	01	THE TIEM, MISS. DALLAST OVER DIMEDE MATERIALISM	+ 7/0
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						ET NUMBER							FUNDING		(_	1 1 1	LITEM	ITEM	GRAND	UNIT	DESCRIPTION SHEE
2	7 34	132	133	146 23	262	270 274	297 302	2 313 348	366 388	476	01/NHS/PV	02/S>2/PV	03/NHS/BR	04/NHS/PV	05/S>2/PV	06/ENH/31) I EM	EXT.	TOTAL	OINTI	DESCRIPTION SHEE
																					CTRICTURES (OVER DO FOOT SPAN)
		+									-			-	<u>ر</u>)				STRUCTURES (OVER 20 FOOT SPAN) STRUCTURE DEL-036-TEMP FOR ESTIMATED QUANTITIES, SEE SHEET 406
-		-															 				
											-				(7				STRUCTURE DEL-036-1126 FOR ESTIMATED QUANTITIES, SEE SHEET 438
+		+											1		()				MAINTENANCE OF TRAFFIC
	1.5										1.5				<u> </u>		601	32204	1.5	CY	
	226										226				>		611	04400	226	FT	12" CONDUIT, TYPE B
	1										1				<u> </u>		2 611	98370		EACH	
	5										5				(611	98690	5	EACH	
	520										520				۲		614	11110	520	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
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	4										4				<u></u>		_	61411300	4	EACH	
	38										30	8			(614	12384		EACH	· · · · · · · · · · · · · · · · · · ·
+	LS										LS	LS	-		<u> ۲</u>		614	12420	LS	FACIL	DETOUR SIGNING
	472										298	174					614	12756 12800		EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM WORK ZONE RAISED PAVEMENT MARKER
	412	+									230	114			<u> </u>		2014	12000	412	EAUT	WORN ZONE RAISED FAVEMENT MARKER
	166										147	19			(614	13310	166	EACH	BARRIER REFLECTOR, TYPE 1, (IWAY)
	166										147	19	1		<u> ۲</u>		614	13350		EACH	
\top	3										3		1		一		614	18000			MAINTAINING TRAFFIC, MISC.: PORTABLE CHANGEABLE MESSAGE SIGN 31
	0.51										0.48	0.03					614	20010	0.51	MILE	WORK ZONE LANE LINE, CLASS I, 6"
	5.88										3.96	1.92			(614	21000	5.88		WORK ZONE CENTER LINE, CLASS I
															7)				
_	6.65										5.32	1.33			\ \rangle		614	22010	6.65		WORK ZONE EDGE LINE, CLASS I, 6"
	10836										7734	3102			—		614	23010	10836	FT	
\vdash	1271										1136	135					614	24000	1271		WORK ZONE TRANSPERS PLACONAL LINE CLASS I
	977 960										279 675	698 285			-		614	25000 26000	977 960		WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I WORK ZONE STOP LINE, CLASS I
+	300	+									073	200					7 014	20000	300	FI	WORK ZONE STOP LINE, CLASS I
	933	1									764	169			>		614	27010	933	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"
	487										199	288					614	28000	487	FT	
\top	70										33	37			(614	30000			WORK ZONE ARROW, CLASS I
	8										8				\		614	40050	8	EACH	
	LS										LS	LS			>		2 615	10000	LS		ROADS FOR MAINTAINING TRAFFIC
	1445										1392	53					615	20000	1445	SY	,
	183										183				>		₹ 616	10000	183	MGAL	
	7800)									6950	850	-		—		622	41100	7800	FT	PORTABLE BARRIER, UNANCHORED
+		+											-		(INCIDENTALS
+		+									LS	15	15	15	15		108	10000	LS		CPM PROGRESS SCHEDULE
		+									LS	LS LS	LS LS	LS LS	LS		614	11000	LS		MAINTAINING TRAFFIC
+-											11	2	17	1	1		619	16021		MNTH	FIELD OFFICE, TYPE C, AS PER PLAN 27
											LS	LS	LS	LS	LS		623	10000	LS	101111111111111111111111111111111111111	CONSTRUCTION LAYOUT STAKES AND SURVEYING
\top											LS	LS	LS	LS	LS		624	10000	LS		MOBILIZATION
															\		7				
											LS	LS	LS	LS	LS		2 878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS
													LS				PECIAL	90017000	LS		PERMITTING PUBLIC UTILITIES INSTALLED ON NORFOLK SOUTHERN PROPERTY 27
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36/SR 37	SHEET NUMBER SR 521	ITEM ITEM TOTAL UNIT DESCRIPTION	see Sheet
75 276	277	TIEM EXT TOTAL UNIT DESCRIPTION	NO.
90		SPECIAL 20270000 790 FT FILL AND PLUG EXISTING CONDUIT, 6"	
51		SPECIAL 20270000 251 FT FILL AND PLUG EXISTING CONDUIT, 12"	
1		638 0X490 1 EACH 8" GATE VALVE	
1		638 10400 4 EACH FIRE HYDRANT ADJUSTED TO GRADE	
6 4		638 10480 11 EACH FIRE HYDRANT REMOVED	\vdash
2 5		638 10800 23 EACH VALVE BOX ADJUSTED TO GRADE	
6 5 3	2	638 10800 23 EACH VALVE BOX ADJUSTED TO GRADE SPECIAL 63820048 23 FT 6" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	\vdash
59 44		SPECIAL 63820088 203 FT 8" WATER MAIN DIP DEASS 53 MEDIANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WIRD-3.0)	
0 57		SPECIAL 63820184 97 FT 12" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	
84 26		SPECIAL 63820224 410 FT (16" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	K
3 1	1	SPECIAL 63820750 5 EACH 6"FIRE HYDRANT (CITY OF DELAWARE, WTRD-9.0)	
2 3		SPECIAL 63820750 5 EACH 6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-10.0)	
192		SPECIAL 63820776 192 FT 1 1/2" POLYETHYLENE WATER SERVICE LINE (CITY OF DELAWARE)	
1 3		638 28000 4 EACH WATER WORKS, MISC.: CURB STOP (CITY OF DELAWARE)	
3		638 98000 3 EACH WATER WORKS, MISC: METER PIT (CITY OF DELAWARE)	
, ,		CZO COCOCO O FACUL WATER WORKS AND STOR AR WISTER TO CRAPE (CITY OF RELAWARD)	
1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		638 98000 2 EACH WATER WORKS, MISC.: CURB STOP ADJUSTED TO GRADE (CITY OF DELAWARE) 638 98000 7 EACH WATER WORKS, MISC.: METER PIT ADJUSTED TO GRADE (CITY OF DELAWARE)	
2 3		638 98000 7 EACH WATER WORKS, MISC.: METER PIT AUJUSTED TO GRADE (CITY OF DELAWARE) 638 98000 5 EACH WATER WORKS, MISC.: CURB STOP REMOVED (CITY OF DELAWARE)	+-+
3		638 98000 3 EACH WATER WORKS, MISC.: CORD STOF REMOVED (CITY OF DELAWARE)	
? 6	1	638 98000 19 EACH WATER WORKS, MISC: VALVE AND VALVE BOX REMOVED	
-			
2		638 98000 4 EACH WATER WORKS, MISC.: WATER SERVICE LOWERING (CITY OF DELAWARE, WTRD-1.1)	
08 127		638 98600 735 FT WATER WORKS, MISC.: PIPE REMOVED	
155		638 98600 155 FT WATER WORKS, MISC.: PIPE ABANDONED (CITY OF DELAWARE)	
8		638 98600 168 FT WATER WORKS, MICS: 30" STEEL PIPE ENCASEMENT, OPEN CUT	
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						202	202	638	638	638	638	638	638	638	838	638	638	638	638	638	638	638	638	638	638	638
REF NO.	SHEET NO.		STATION	l	SIDE	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 6"	SPECIAL - FILL AND PLUG EXISTING CONDUIT, 12"	FIRE HYDRANT ADJUSTED TO GRADE	FIRE HYDRANT REMOVED	VALVE BOX ADJUSTED TO GRADE	WATER WORKS, MICS.: 30" STEEL PIPE ENCASEMENT, OPEN CUT	FECIAL - 6" WATER MAIN DIP ASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	ECIAL - 8" WATER MAIN DIP ASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF DELNWARE, WTRDK3.CM	SPECIAL - 12" WATER MAIN DIP CLASS 54 MECHANICAL OINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	SPECIAL - 16" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	SPECIAL - 6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-9.0)	SPECIAL - 6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-10.0)	WATER WORKS, MISC.: PIPE REMOVED	WATER WORKS, MISC.: CURB STOP (CITY OF DELAWARE)	WATER WORKS, MISC.: METER PIT (CITY OF DELAWARE)	WATER WORKS, MISC.: CURB STOP ADJUSTED TO GRADE (CITY OF DELAWARE)	WATER WORKS, MISC.: METER PIT ADJUSTED TO GRADE (CITY OF DELAWARE)	WATER WORKS, MISC.: CURB STOP REMOVED (CIYT OF DELAWARE)	WATER WORKS, MISC.: METER PIT REMOVED (CITY OF DELAWARE)	WATER WORKS, MISC.: VALVE AND VALVE BOX REMOVED	WATER WORKS, MISC.: WATER SERVICE LOWERING (CITY OF
			FROM	ТО		FT	FT	EACH	EACH	EACH	9E FT	S Z FT	S Z FT	。, つう 太		EACH	EACH	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	≥ S EACH
			FROM	10		FI	FI	EACH	EACH	EACH	FI	FI	FI			EACH	EACH	FI	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACI
W-1	281	36	585+03.92		LT																1				'	1
W-2 W-3	281 281	36 36	586+88.50 36 587+66.69	587+14.50	RT RT				1				26					26							1	+
W-4	281	36	587+60.00 36	587+65.00	RT				,								1									
W-5	281	36	584+74.31		LT																					1
IA/ 1	202	7.6	E0016E 2E 76	E00160 01	DT					2															<u> </u>	
W-1 W-2	282 282	36 36	589+65.25 36 589+73.41 36	589+68.91 589+78.25	RT LT			1		3														+	 	
W-3	282	36	589+93.70 36		LT										26			26								
W-4	282	36	590+65.26	501.51.00	LT										20			00				2		<u> </u>	<u> </u>	
W-5	282	36	591+25.90 36	591+51.90	LT										26			26						-	 	
W-6	282	36	591+84.03 36	591+84.44	LT			1		1																
W-7	282	36	589+66.60 36		RT	333.5																			1	
W-8 W-9	282 282	36 36	591+96.85 592+67.72		RT LT				1																1	
W-3	202	100	332+01.12		LI	 																				
W-1	283	36	593+00.00 36	597+56.38	RT/LT	456.4																				
W-2	283	36	593+43.56 36	595+54.44	LT													217						<u> </u>	<u> </u>	
W-3 W-4	283 283	36 36	595+32.75 594+56.77 36	595+32.75	LT LT		250.5																			
W-5	283	36	596+30.73 36	597+00.00	LT/RT		200.0											138.8						+	<u> </u>	
W-6	283	36	596+87.87 596+84.65		RT				1														1		<u> </u>	
W-7 W-8	283 283	36 36	596+48.09 36	596+75.00	LT LT				/						26		1	26						+		+
W-9	283	36	597+00.00 36	597+05.00	LT/RT								93													
W-10	283	36	596+82.73 36	596+95.12	LT																				2	
W-11	283	36	596+54.90 36	597+61.13	LT							22.6													 	-
W-12	283	36	596+27.33 36	596+50.24	LT							22.70													3	
W-13	283	36	593+43.56 36	595+54.44	LT						168				226										[
W-1	281	76	598+20.50 36	508+24 28	LT														1				1		 	-
W-2			598+21.67	000124.20	RT					1									,					+	 	+
W-3			598+81.40 36		LT										44.1			37								
W-4			600+24.46 36 601+30.00	600+55.10	LT RT										35	1		30.6							<u> </u>	
W-5	204	36	601+30.00		R1											1										+
W-6			601+55.01 36		RT					2																
W-7			601+50.36 36	601+56.93	RT				1	1																
W-8	284	36	602+81.64		RT					1															 '	+
W-1	285	36	603+03.93 36	603+17.68	LT					2																
W-2			603+04.69 36	603+08.03	LT			1		1																
W-3 W-4			605+87.57 65+65.00		LT RT											1						1		1	<u> </u>	
W-5			605+73.34		RT				1							1								+	1	+
W-6			606+97.99 36		LT								40	10				40								
W-7	285	36	607+31.44 36	607+71.16	RT									40				40							<u> </u>	
W-1	286	36	608+98.44		LT			1		2														+		+
W-2	286	36	609+50.00		RT											1										
W-3	286	36	609+54.87		RT				1															 	1	-
		+																						+		_
			SUBTOTAL			789.9	250.5	4	6	16	168	22.6	159	40	383.1	3	2	607.4	1		1	3	2		12	2
	T07110	0.007		SUBSUMMARY	07.4	790	251	4	6	16	168	23	159		384	3	2	608		_		3	2	_	12	2

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QUANTITIES - US-36/SR-37

WATER WORK QUANTITIES

DEL-36-11,03

							638	638	638	638	638	638	638	638	838	638	638	638	638	638	638	638	638	638	638	638	638
REF NO.	SHEET NO.		STATIO	N	SIDE		8" GATE VALVE	FIRE HYDRANT ADJUSTED TO GRADE	FIRE HYDRANT REMOVED	VALVE BOX ADJUSTED TO GRADE	SPECIAL - 1 1/2" POLYETHYLENE WATER SERVICE LITY OF	SPECIAL - 6" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAMARE, WIRD-3.0)	SPECIAL - 8" WATER MAIN DIP CLASS 53 MECHANICAL JOINTS AND FITTINGS (CITY OF ADE FITTINGS (CITY OF	SPECIAL - 12" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	SPECIAL - 16" WATER MAIN DIP CLASS 54 MECHANICAL JOINTS AND FITTINGS (CITY OF DELAWARE, WTRD-3.0)	SPECIAL - 6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-9.0)	SPECIAL - 6" FIRE HYDRANT (CITY OF DELAWARE, WTRD-10.0)	WATER WORKS, MISC.: PIPE ABANDONED (CITY OF DELAWARE)	WATER WORKS, MISC.: PIPE REMOVED	WATER WORKS, MISC.: CURB STOP (CITY OF DELAWARE)	WATER WORKS, MISC.: METER PIT (CITY OF DELAWARE)	WATER WORKS, MISC.: CURB STOP ADJUSTED TO GRADE (CITY OF DELAWARE)	WATER WORKS, MISC.: METER PIT ADJUSTED TO GRADE (CITY OF DELAWARE)	WATER WORKS, MISC.: CURB STOP REMOVED (CIYT OF DELAWARE)	WATER WORKS, MISC.: METER PIT REMOVED (CITY OF DELAWARE)	WATER WORKS, MISC.: VALVE AND VALVE BOX REMOVED	WATER WORKS, MISC.: WATER SERVICE LOWERING (CITY OF
			FROM	TO			EACH	EACH	EACH	EACH	FT	FT	FT	KIL	LEX	EACH	EACH	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
W-1 W-2	287 287	36	613+28.00 36 613+57.93	613+59.00	RT RT	-			1					31		1			31							1	
W-3	287	36	615+38.83		LT	 			,	1													1				
W-4	287	36	617+07.49		RT																		1				
W-5	287	36	617+45.00 36	617+50.00	RT												1										
	227	7.0	047.54.50	047.55.00	D.T.																						
W-6 W-7	287 287	36 36	617+54.56 36 615+62.00 36	617+55.68	RT RT				1					26					26							1	
VV - /	201	36	013702.00 30	013700.00	π/	 								20					20							+	
W-1	288	36	619+19.94 36	619+26.46	RT	1				2																<u> </u>	
W-1	289		14+20.00		LT															1				1			
W-2	289		14+63.59 37	14+89.59	RT	-	1			1			13		26				39							1	
W-3 W-4	289 289	37 EST	14+72.74 120+37.87	-	LT LT	 				/	20															+	
W-5	289		15+44.34		LT						20										1				1		1
						1																					
W-6	289		16+44.52		LT																						1
W-7	289		15+21.41	45.00.00	RT	<u> </u>																	1				
W-8	289 289	37	15+93.00 37 16+07.65	15+98.00	RT RT	-			1								1									1	
W-9	203	37	10+07.03		π/	 			1																	+	
W-1	290	37	18+34.50		LT															1				1			
W-2	290		18+23.29		RT																	1					
W-3	290		19+60.90		RT	<u> </u>			1																	1	
W-4	290		19+67.00 37 11+22.37 MOR	19+72.00	RT	-							71				1		71								
W-5	290	MOR	11+22.37 MUI	R 110+53.33	RT	-							31						31							+ '	
W-6	290	37	19+71.27 37	20+00.00	LT	<u> </u>					28.7							28.7		1				1			
W-7	290		19+75.65		RT					1																	
W-1	291	37	30+00.00 37	31+25.00	LT	-					143.3							125.5			2				2		
W-2	291	37	31+36.52		LT	-																	1				
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			CUDTAT							-	***			67			-	15.4.0	167	_	-	1		-	-	<u></u>	1
	TOTAL	C CADDIT	SUBTOTAL D TO WATER WORK	C CIDCIPATEDA	274	 	1		4	5	192 192		44	57	26	1 1	7	154.2	127	3	3	1	4	3	3	6	2
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WORK QUANTITIES - US-36/SR-37

DEL-36-11,03

WATER

						SH	IEET N	UM.								RT.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET	ULATED JS
			301	303	304	305	306	307	308	309	310	311	307	338	01/NHS/P V	02/S>2/P V	IIEW	EXT	TOTAL	UNIT	DESCRIPTION	NO.	CALCI
				12			1	27	14	1 60	40	50	27		2 139	64	625 630	32000 02100	2 203	EACH FT	GROUND ROD GROUND MOUNTED SUPPORT, NO. 2 POST		7
				220	165	242	196	138	53	81	151	152	138		1,285	260	630	03100	1,545	FT	GROUND MOUNTED SUPPORT, NO. 3 POST		1
						13	-	-		43		13	-		56	38	630	08520	94	FT	STREET NAME SIGN SUPPORT, NO. 3 POST		
				4	/	9	3	7	1	2	5	2	7		32	7	630	08600	39	EACH	SIGN POST REFLECTOR		\dashv
										1					1		630	21200	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12		1
							1			_					1		630	21201	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12, AS PER PLAN	301	
\bigcirc				118	101	127	3 129	79	50	3 62	95	118	79	(762	213	630 630	75000	975	EACH SF	SIGN ATTACHMENT ASSEMBLY SIGN, FLAT SHEET		-
				110	الآل) ""	102	7.5	00	102	55	110	10	7	204		630	80224	Lizar	SF	SIGN, OVERHEAD EXTRUSHEET		
						2				6		2			8	6	630	80500	14	EACH	SIGN, DOUBLE FACED, STREET NAME		-
							102			102					204		630	81200	204	SF	SIGN ERECTED, EXTRUSHEET		1
							1			1					2		630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION		┦ >
Z				19	38	8	25	28	/	13	13	15	28	2	150	30	630 630	84900 85000	180 2	EACH EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	338	⊣ ′ი
_																	030	03000	2	LACII	NEMOVAL OF GROOND MODIVIED SIGN AND STONAGE	330	 ⊲
0 ,				11	20	5	12	17	8	9	11	11	17		92	24	630	86002	116	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		Z
α			1											2	2		630 630	97700 97700	2	EACH EACH	SIGNING, MISC.: FOUNDATION GROUND MOUNTED SIGN SIGNING, MISC.: PORTABLE CHANGEABLE MESSAGE SIGN	338 301	_ ≥
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SHEET NO.	REF NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	HOST REFLECTOR	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12, AS PER PLAN	STREET NAME SIGN SUPPORT, NO. 3 POST	SIGN, DOUBLE FACED, STREET NAME	HO SIGN ATTACHMENT ASSEMBLY	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN ERECTED, EXTRUSHEET	REMOVAL OF GROUND MOUNTED	REMOVAL OF GROUND MOUNTED	EACHND ROD	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
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321	<i>S</i> 7	E POINT CROSSING	78+55	RT	R3-H8bd-30	30"x30"		13.00							6.25			1.00	1.00			
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701	5.1	C DON'T ODGOG	70:05		111 101 24	21710									3.00			1.00	1.00			
321	R4	E POINT CROSSING	79+65	RT														1.00	1.00			
321	<i>S9</i>	US 36	590+80	LT	R3-1-30	30"x30"		13.00							6.25			1.00	1.00			
321	R5	US 36	591+50	LT														5.00	2.00			
321	S10	US 36	592+00	RT	M3-2-24 M1-4-24-2 M1-5-24-2			15.50							2.00 4.00 4.00			1.00	1.00			
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321	R6	US 36	592+95	LT														10.00	2.00			
322	S1	US 36	593+75	RT	R2-1-30	30"x36"		13.50							7.50							
322	52	US 36	594+50	LT	R3-H8b-48	48"x30"		26.00							10.00							
322	R1	US 36	594+70	LT														1.00	1.00			
322	R2	US 36	594+90	LT														11.00	3.00			
322	R3	US 36	595+00	LT														1.00	1.00			
322	R4	US 36	595+25	LT														1.00	1.00			
322	R5	US 36	595+60	LT														1.00	1.00			
322	R6	US 36	596+40	LT														1.00	1.00			
322	S3	US 36	596+45	RT	R3-H8ca-48			26.00							10.00							
322	54	US 36	596+50	LT	R14-1-24 M3-4-24	24"×18"		29.50							3.00 2.00							
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322	R7	US 36	596+50	LT														1.00	1.00			
322	R8	US 36	597+00	LT														1.00	2.00			
322	R9	US 36	597+40	LT														1.00	1.00			
322	S4A	US 36	597+55	MED	R4-7-30	30"x36""		13.50	1.00						7.50							
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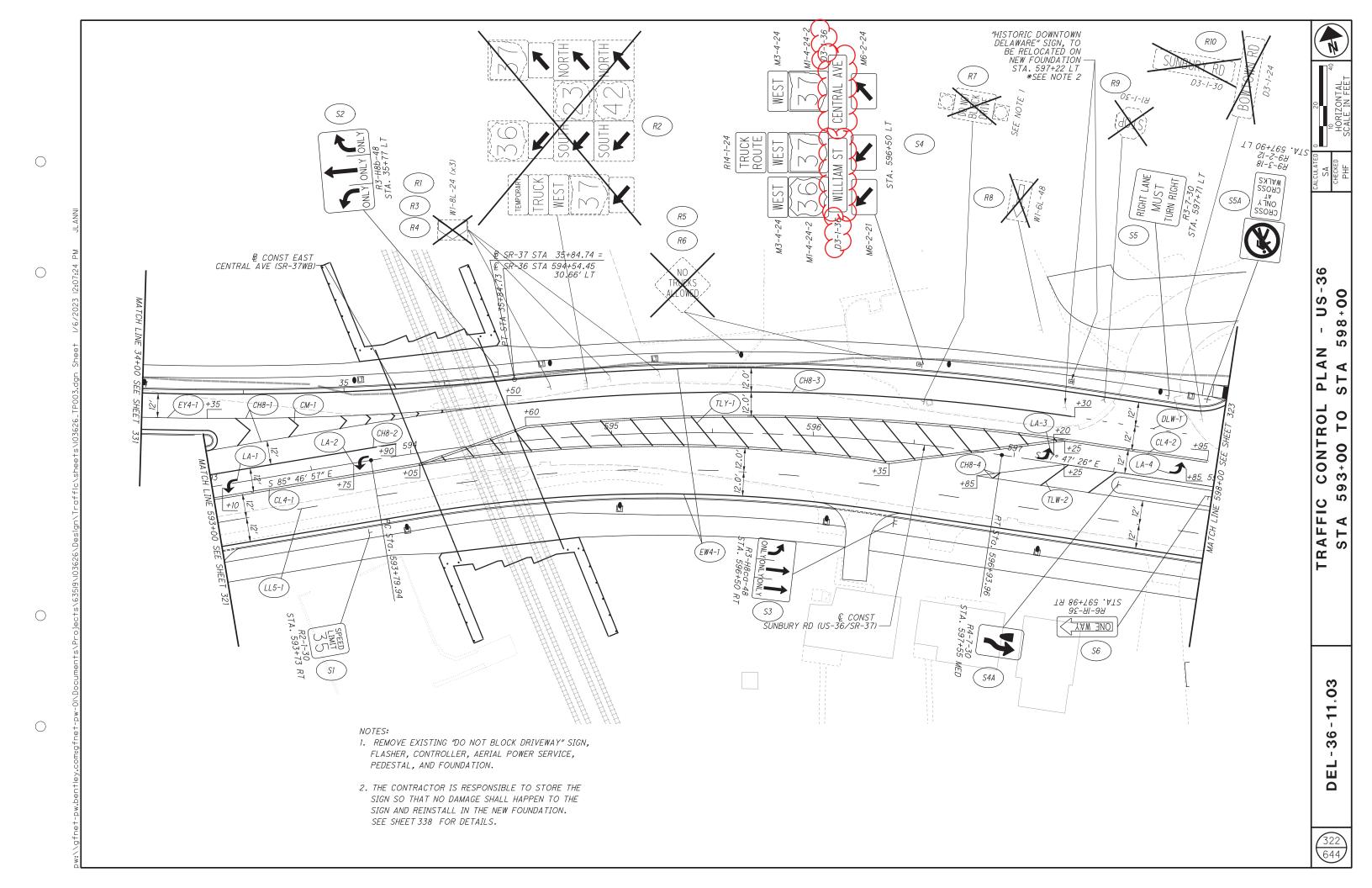
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SIGNING QUANTITIES (2 OF 10)

DEL-36.11.03



UTILITY NOTIFICATION

AT LEAST TWO (2) DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA THAT MAY INVOLVE UTILITIES. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT. THE OHIO UTILITIES PROTECTIONS SERVICE AND THE OWNERS OF EACH UTILITY AFFECTED.

A LIST OF UTILITIES AND OWNERS IS PROVIDED ON SHEET XX. THIS IS NOT TO BE CONSTRUED AS A COMPLETE LIST BY RATHER A DIRECTORY OF THE MORE FREQUENTLY ENCOUNTERED COMPANIES.

FOUNDATION LOCATIONS

UNLESS OTHERWISE LOCATED OR DIMENSIONED IN THE PLANS, PROPOSED SIGNAL STRAIN POLE, SUPPORT, AND PEDESTAL FOUNDATIONS THAT ARE LOCATED ADJACENT TO PAVED SIDEWALK IN A TRANSITIONAL AREA (GRASS, PAVERS/ASPHALT), SHALL BE PLACED WITH EDGE OF THE FOUNDATION IMMEDIATELY ADJACENT TO THE SIDEWALK (WITH JOINT FILLER) PER SCD TC-21.21 AND TC-83.20.

REUSE OF STREETSCAPE PULL BOXES

EXISTING TRAFFIC SIGNAL PULL BOXES IN STREETSCAPED AREAS OF DOWNTOWN ARE COVERED WITH PAVER BRICKS, CONTRACTOR SHALL COORDINATE WITH CITY OF DELAWARE PUBLIC WORKS TO HAVE PAVERS REMOVED PRIOR TO REQUIRED ACCESS TO PULL BOXES, TO INSTALL CONDUIT OR PEDESTAL FOUNDATION, AND FOR PAVER REINSTALLATION. THE CONTRACTOR SHALL COMPACT AND RESTORE PAVER BASE TO PREVIOUS CONDITION PRIOR TO REINSTALLATION OF PAVERS. CONTRACTOR SHALL CONTACT THE CITY PUBLIC WORKS DEPARTMENT WHEN PAVERS CAN BE REINSTALLED.

WORK INSPECTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH 72 HOUR NOTICE OF ANY WORK TO BE PERFORMED AT THE SITE SO THAT INSPECTION SERVICES CAN BE SUPPLIED.

VACUUM EXCAVATION OF FOUNDATIONS

VACUUM EXCAVATION OF PEDESTAL AND SIGNAL SUPPORT FOUNDATIONS BY A QUALIFIED CONTRACTOR WILL BE REQUIRED WHERE PROPOSED FOUNDATIONS ARE WITHIN PROXIMITY TO UNDERGROUND UTILITIES. THE COST OF THE VACUUM EXCAVATION WILL BE INCIDENTAL TO THE ASSOCIATED FOUNDATION PAY ITEM.

TEN DAY TEST REQUIREMENTS

THE CITY OF DELAWARE REQUIRES A TEN (10) DAY TEST TO START AFTER SIGNAL INSTALLATION IS 100% COMPLETE WHICH INCLUDES ESTABLISHING DATA COMMUNICATION IF PRESENT. NO PARTIAL TESTS WILL BE CONDUCTED. THE CITY SHALL MONITOR THE TEST AND SHALL BE THE SOLE AGENCY TO ACCEPT THE SIGNAL INSTALLATION. IF LESS THAN 100% COMPLETION IS DETECTED UPON INSPECTION BY THE CITY OR ANY MALFUNCTION IS DETECTED. THE TEN (10) DAY TEST SHALL BE COMPLETELY RESTARTED.

COORDINATION OF ACTIVITIES

HORIZON WILL INSTALL FIBER OPTIC COMMUNICATIONS BETWEEN EACH SIGNALIZED INTERSECTION AND FIBER OPTIC TERMINATION PANELS IN EACH TRAFFIC SIGNAL CONTROL CABINET. THE CONTRACTOR SHALL COORDINATE WORK AT EACH TRAFFIC SIGNAL WITH HORIZON, ENSURING THAT NEW CABINETRY IS IN PLACE PRIOR TO HORIZON INSTALLATION OF FIBER TO THE CABINET. ADDITIONALLY, THE CONTRACTOR SHALL ENSURE THAT THE FIBER OPTIC NETWORK IS OPERATIONAL AND TESTED PRIOR TO SWITCHOVER (FROM COPPER AND WIRELESS SYSTEMS).

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL EQUIPMENT INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 180 DAYS FOLLOWING THE SUCCESSFUL COMPLETION OF THE 10 DAY PERFORMANCE TEST.

THE GUARANTEE SHALL COVER ALL TRAFFIC SIGNAL EQUIPMENT, LED LAMPS AND WIRING INSTALLED BY THE CONTRACTOR AT THE INTERSECTION AS PART OF THIS CONTRACT.

CUSTOMARY AND APPLICABLE ODOT SPECIFIED MANUFACTURER'S GUARANTEES FOR THE INSTALLED ITEMS SHALL BE TURNED OVER TO THE CITY FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

MATERIALS

ALL MATERIALS FURNISHED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (CM&S) DATED AS SHOWN ON SHEET XX

CONTRACTOR SHALL SUPPLY A PAPER COPY AND AN ELECTRONIC COPY IN PDF FORMAT TO THE PUBLIC WORKS DEPARTMENT.

SIGNAL ACTIVATION

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP AND GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL SIGNAL FROM SERVICE, ALL TIEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULL COMPLETED, (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER. THE PROJECT ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL CITY OF DELAWARE DESIGNATED PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT EFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND REINSPECTED BY THE CITY OF DELAWARE PERSONNEL PRIOR TO FINAL ACCEPTANCE. CITY OF DELAWARE FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

POWER SUPPLY FOR TRAFFIC SIGNALS

ELECTRIC POWER SHALL BE OBTAINED FROM AEP AT THE LOCATIONS INDICATED ON THE PLANS. POWER SUPPLIED

WIRING DIAGRAMS

TWO (2) WIRING DIAGRAMS AND TWO (2) EACH SERVICE OPERATION MANUALS FOR EACH DIFFERENT PIECE OF EQUIPMENT SHALL BE PROVIDED. A HEAVY CLEAR PLASTIC ENVELOPE ATTACHED TO THE INSIDE OF THE CABINET DOOR SHALL BE PROVIDED FOR STORING WIRING DIAGRAMS, (MINIMUM OF 9-INCHES BY 12-INCHES IN SIZE).

LEGEND

WOOD UTILITY POLE

TO BE REMOVED

TBR

EXIST.	/ PROP			WIRING DIAGR (EXISTING EQUIPMENT SHOWN I		NESTYLE)
	\bowtie	GROUND MOUNTED CONTROLLER/UPS	<u> (5C)</u>	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	—(PE)—	PHOTOELECTRIC CELL
∞	⊠	POLE MOUNTED CONTROLLER				
		SIGNAL STRAIN POLE/SUPPORT (SP#)	—(7C)—	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	—(MB)—	METER BASE
•	•	PEDESTRIAN PEDESTAL (PS#)	—(RC)—	RADAR DETECTION CABLE	$-\infty$	POWER SOURCE
Īß	ĪR	PULL BOX (B#)		THISTIN BETEGITON GRIBLE	<u> </u>	, and a some
0	\longrightarrow	3- SECT. TRAFFIC SIGNAL HEAD (#)	—(VC)—	VIDEO CAMERA CABLE	— DS —	DISCONNECT SWITCH
o¦- →	•	3 OR 4- SECT. TRAFFIC SIGNAL HEAD W/ ARROWS (#)	—(UPS)—	UNINTERRUPTIBLE POWER SUPPLY CABLE	<i>SP</i>	SIGNAL POLE #
아 블	•	5- SECT. TRAFFIC SIGNAL HEAD (#)				
1	\neg	PEDESTRIAN SIGNAL HEAD (P#)	—(FO)—	FIBER OPTIC DROP CABLE (BY CCI)		
0	→	PEDESTRIAN PUSH BUTTON W/ SIGN (PB#)	—(PC)—	POWER CABLE, 3 CONDUCTOR,		
		VIDEO DETECTION UNIT (STANDARD SINGLE APPROACH CAMERA)	—(SC)—	NO. 6 AWG SERVICE CABLE, 3 CONDUCTOR,		
•	+	VIDEO DETECTION UNIT (360 DEGREE)		NO. 6 AWG		
-~ (D)	-0	DILEMMA ZONE RADAR DETECTION UNIT	-(N4)-	NO. 4 AWG DISTRIBUTION CABLE	E	
-¤ (\$)	- S	STOP BAR RADAR DETECTOR	—(N10)—	<i>NO. 10 AWG POLE & BRACKET CABLE</i>		
-IZ (A)	A	ADVANCE RADAR DETECTOR	(INT)	EX. INTERCONNECT CABLE		
-⊏Evjp;		EMERGENCY VEHICLE PREEMPTION UNIT	·(SIG}	EX. SIGNAL CABLE		
+	₩	ETHERNET RADIO/ANTENNA	(OC)	EX. PEDESTRIAN SIGNAL CABLE		
4	4	SIGN (S#)	(_D)	LA. I LUES INTAN STOWAL CADLE		
		DETECTION ZONE (D#)				
		CONDUIT, MISC. DUCT BANK				

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ITEM 625 LUMINAIRE, DECORATIVE, IES-II-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN

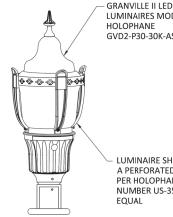
IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 625.08, AND SS 813 THE LUMINAIRES SHALL BE GRANVILLE II LED LUMINAIRES WITH LEAF-SYLE HOUSING, MODEL HOLOPHANE GVDS-P30-30K-AS-M-CMC-R-S-GL-P7-FPD85-PC11. HOUSING, RIBS,

AND BANDS SHALL BE PAINTED WITH A FINISH COAT TO MATCH THE PROPOSED SIGNAL SUPPORT POLE COLOR, WHICH IS SIMILAR TO FEDERAL SPECIFICATION 595-B COLOR #27038 BLACK.

SHOP DRAWINGS FOR ALL COMPONENTS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AT LEAST 7 DAYS PRIOR TO ORDERING MATERIALS.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH OF ITEM 625 LUMINAIRE, DECORATIVE, IES-II-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN

STEEL PIPE ARMS TO BE FURNISHED WITH SIGNAL SUPPORT. ARM END TO HAVE A 3" O.D. TENON TO AS REQUIRED BY LUMINAIRE MANUFACTURER - LUMINAIRE (SEE ABOVE)



LUMINAIRES MODEL HOLOPHANE GVD2-P30-30K-ASMCMC3RSGLP7FPD85PCLL.

LUMINAIRE SHALL BE FIT WITH A PERFORATED UPLIGHT SHIELD PER HOLOPHANE DRAWING NUMBER US-3572 OR APPROVED

GRANVILLE® SERIES LUMINAIRE LEAF STYLE CASTING with LUNAR OPTICS TM MAXIMUM WEIGHT - 47 lbs

MAXIMUM EFFECTIVE PROJECTED AREA - 1.26 sq. ft.

FXAMPLE ORDERING INFORMATION GV100HP

ONTROL FOR 120 VOLT, LOCATED IN ACCESS COVER. FIELD INSTALLED. NOT UL LISTED TO ADAPT. THE LUMINAIRE TO FIT A 3-INCH LIGHT POLE TENON

COLOR Y539A - DELAWARE GREEN

Specifications

GENERAL DESCRIPTION

ousing, a reflector with socket, and a prismatic glass optical

OPTICAL ASSEMBLY

The optical assembly is a precisely molded thermal resistant borosilicate glass reflector and refractor with or without a decorative finial. The upper portion of this system incorporates series of reflecting prisms that redirect over 50% of the upward light in to the controlling refractor while allowing a soft uplight component to define the traditional acorn shape of the ulminaire. Two decorative aluminum top covers are available. The lower portion uses precisely molded refracting prisms to control the distribution of light to maximize utilization, uniformity, and luminaire spacing. Three unique optical assemblies are available, designed for IES type III, IV, and V lighting distributions. he optical assembly is a precisely molded thermal resistant ighting distributions

SALLAST HOUSING The ballast housing contains the ballast and other electrical components. The housing is cas: of aluminum alloy with a flutec concave contour designed to flow gracefully from a 7" diameter decorative post capital and replicate the fluted pattern of a secorative post shaft. The ballast housing is secured by four hex head 1/4-20 set screws. Four unjuely designed stainless steel pring clips enclosed in a clear polyviny chloride sleeve and divised by he head 1/4-20 better generals contains the notice! djusted by hex head 1/4-20 bolts securely cradle the optical

lefer to Ballast Data Sheet for specific operating characteris 5 - 100 watt 120 volt High Pressure Sodium (HPS) ballasts are gh Power Factor Reactor type. All other HPS ballasts are High wer Factor Autotransformer type

75 watt Metal Halide (MH) balasts are Peak Lead Autotransformer type. 70 and 100 watt MH units are available only with (120V, 208V, 240V, 277V) multitap High Power Factor nly with (120V, 208V, 240V, 270V, tigh Reactance type ballast. All Mercury Vapor (MV) ballasts are High Power Factor Constant

REFLECTOR / SOCKET ASSEMBLY
The reflector/socket assembly is designed to position the specified light source at the light center of the refractor.

lefer to the instruction manual provided with each lumi o the specific method of wiring and mounting the lumi

e housing is finished with polyester powder paint applied after

IL LISTING

ire is UL listed as suitable for wet locations at a

ITEM 625 - CONDUIT MISC .: INTERCONNECT DUCT BANK

IN ADDITION TO THE REQUIREMENT OS 625 AND 725, THE THREE (3) 1-1/4" CONDUITS, FOR FUTURE FIBER OPTIC INTERCONNECT USE, SHALL BE SDRII HDPE MATERAL AND INSTALLED EMPTY. THE THREE (2) CONDUITS SHALL BE INSTALLED AT ALL LOCATIONS SHOWN ON HE PLANS AND ONE EACH SHALL BE BLUE, ORANGE AND GREEN IN COLOR.

PLASTIC CAUTION TAPE SHALL BE INSTALLED ABOVE THE INTERCONNECT CONDUITS AND SHALL BE PLACED 18" BELOW THE FINISHED GRADE.

TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE INTERCONNECT CONDUITS AND SHALL BE 12 AWG, 250# PULL RATED ADD SHALL BE COPPERHEAD REINFORCED TRACER WIRE BY COPPERHEAD INDUSTRIES.

THE CONDUITS SHALL BE INSTALLED SO THEY ENTER THE BOTTOM OF EACH PULL BOX.

THE CONDUITS SHALL MAINTAIN A MINIMUM OF 1.5' SEPARATION FROM ALL UTILITIES EXCEPT THE SIGNAL CONDUITS SINCE THE WILL BE SHARING A TRENCH AND PULL BOXES.

PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE BID PER FOOT OF ITEM 625-CONDUIT, MISC .: INTERCONNECT DUCT BANK INSTALLED AND ACCEPTED.

ITEM 630 - SIGN, STREET NAME, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT CMS 630 AND 730, THE SIGNS SHALL CONFORM TO THE CITY OF DELAWARE STANDARDS AND HAVE THE FOLLOWING SPECIFICATIONS:

HIGH INTENSITY REFLECTIVITY WHITE LETTERS HIGH INTENSITY REFLECTIVITY BLUE SHEETING

STREE NAME SIGN SIZE AND LETTERING HEIGHTS SHALL FOLLOW OMUTCD, THE CITY OF DELAWARE ENGINEERING STANDARD DRAWING RDWD 36.0, AS APPROVED BY THE ENGINEER.

SHOP DRAWINGS FOR ALL COMPONENTS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AT LEAST 7 DAYS PRIOR TO ORDERING MATERIALS.

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

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, STRAIN POLES, CABINET, CONTROLLER, ETC.. SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. EXISTING COMMUNICATIONS AND DETECTION SYSTEMS SHALL NOT BE REMOVED UNTIL NEW SYSTEMS ARE IN PLACE AND OPERATIONAL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR DELIVERED TO CITY OF DELAWARE PUBLIC WORKS, 440 E WILLIAM ST. DELAWARE, OHIO IN ACCORDANCE WITH THE LISTING GIVEN

AT LOCATIONS WHERE EXISTING DETECTION AND/OR INTERCONNECT IS BEING REPLACED, EXISTING WIRING SHALL BE REMOVED FROM THE CABINET, PULL BOXES, AND CONDUITS.

ITEMS TO BE SALVAGED:

-WIRELESS COMMUNICATIONS (UBIQUITI RADIOS)

-NETWORK SWITCHES AND PORT SERVERS

-VIDEO DETECTION SYSTEMS

-RADAR DETECTION SYSTEMS

THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

ITEM 632 PEDESTAL, BY SIZE, TRANSFORMER BASE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 632, THE PEDESTAL FINISH SHALL CONSIST OF SEMI-GLOSS BLACK POLYESTER POWDER COAT FINISH. PAINT CHIP SAMPLES AND SHOP DRAWINGS FOR ALL COMPONENTS MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AT LEAST 7 DAYS PRIOR TO ORDERING MATERIALS. PROVIDE ADEQUATE PROTECTION FOR THE FINISH OF THE PEDESTAL. IF FINISH IS DAMAGED DURING HANDLING AND/OR INSTALLATION, THE CONTRACTOR SHALL REPAIR THE FINISH PER THE POLE MANUFACTURER'S RECOMMENDATIONS. ALL PROPOSED PEDESTAL LOCATIONS SHALL MATCH EXISTING SUPPORT COLORS UNLESS OTHERWISE NOTED. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH OF ITEM 632 PEDESTAL, BY SIZE, AS PER PLAN.

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

IN ADDITION TO THE REQUIREMENTS OF ITEM 632, SIGNAL SUPPORT POLE AND MAST ARM SHALL BE A BLACK POWDER COAT (FEDSTD-595b 17038) MEETING THE REQUIREMENTS OF SS916.

PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH OF ITEM 632 COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, BY TYPE, AS PER PLAN.

ITEM 632 POWER SERVICE. AS PER PLAN

POWER SERVICE SHALL BE AS PER SPECIFICATION 632 AND STANDARD CONSTRUCTION DRAWING TC-83.10 WITH THE FOLLOWING EXCEPTIONS:

- 1. THE METER BASE MOUNTING HEIGHT SHALL BE NO MORE THAN FIVE (5) FEET HIGH TO THE CENTER OF THE METER BASE FROM THE GROUND
- 2. THE CONTRACTOR SHALL SUPPLY THE NECESSARY METER BASES. 3. ALL POWER SERVICES SHALL BE METERED. THE METER SHALL
- HAVE A LEVER OPERATED BYPASS.
- 4. THE POWER SERVICE BLIND HALF COUPLING SHALL BE TWENTY-SEVEN [27] INCHES ABOVE THE BOTTOM OF THE STRAIN POLE BASE PLATE AND SHALL BE WELDED TO THE STRAIN POLE.
- 5. CONDUIT FROM THE BOTTOM OF THE DISCONNECT SWITCH ENCLOSURE INTO THE BOTTOM OF THE CONTROLLER CABINET WILL NOT BE PERMITTED. POWER SERVICE WIRES FROM THE DISCONNECT SWITCH ENCLOSURE TO THE CONTROLLER CABINET SHALL BE ROUTED THROUGH THE STRAIN POLE.
- 6. IF INTERSECTION LIGHTING IS SPECIFIED THEN SEPARATE DISCONNECT SWITCHES SHALL BE INSTALLED AND LABELED "LIGHTING" AND "TRAFFIC SIGNAL" WITH A WEATHER PROOF STICKER. MARKER ON THE OUTSIDE OF THE ENCLOSURE IS NOT ACCEPTABLE.

DISCONNECT SWITCH ENCLOSURES FURNISHED SHALL INCLUDE A PADLOCK EQUAL TO MASTER NO. 4BKA OR WILSON BOHANNON 660, WITH LOCK BODY OF BRONZE OR BRASS AND KEYING SHALL BE TO THE STATE MASTER.

THE CONTRACTOR SHALL CONTACT THE METER SECTION OF THE POWER COMPANY FOR INFORMATION REGARDING THE METER BASE INSTALLATION PRIOR TO ORDERING POLES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REQUESTING AND SCHEDULING ANY INSPECTIONS THE POWER COMPANY MAY REQUIRE FOR THE POWER SERVICE HOOK UP. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE POWER COMPANY FOR THE ELECTRICAL SERVICE CONNECTION, UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SPLICE POWER CABLE INTO THE POWER COMPANY'S CIRCUITS. THE VOLTAGE SUPPLIED SHALL BE NOMINALLY 120 VOLTS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS AND THE PAYING OF ALL FEES. THE CONTRACTOR SHALL PAY ALL POWER CHARGES UNTIL THE SIGNAL IS ACCEPTED BY THE MAINTAINING AGENCY.

CONTRACTOR SHALL COORDINATE WITH THE CITY AND UTILITY TO REQUEST/ASSIGN AN ADDRESS FOR ANY NEW SERVICE OR EXISTING SERVICE THAT DOESN'T ALREADY HAVE AN ADDRESS

WHERE POWER SERVICE IS SPECIFIED IN THE PLANS TO REPLACE EXISTING POWER SERVICE (OR AS REFURBISHED), THIS ITEM SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF THE SERVICE RISER, METER (IF APPLICABLE), DISCONNECT, AND ASSOCIATED CONDUIT AND FITTINGS TO REACH THE TRAFFIC SIGNAL CABINET.

PAYMENT SHALL BE AT THE CONTRACT UNIT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE POWER SERVICE TESTED AND ACCEPTED.

	SHEET NUM.			PART.	\sim	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
	346	349	01/NHS/PV	02/S>2/F(V) –	EXT	TOTAL	ONII	DESCRIPTION	NO.
		815	815		~	625	23200	815	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
		350 444	350 444			625 625	23400 25400	350 444	FT FT	NO. 10 AWG POLE AND BRACKET CABLE CONDUIT, 2", 725.04	
		223	223			625	25408	223	FT	CONDUIT, 2", 725.051	
		135	135			625	25604	135	FT	CONDUIT, 4", 725.051	
							\frown			LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III-FULL CUTTOFF-MEDIUM, 3000K-CCT. AS PER PLAN	
		6	4		6	625	26253	6	EACH (LUMINATRE, CONVENTIONAL, SOLID STATE (LED), IES-III-FULL CUTTOFF-MEDIUM, 3000K-CCT. AS PER PLAN	365
		472	472	(\ \ \	625	2755 <u>1</u>	472	FT	LUMINAIRE, DECORATIVE, IES-II-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN TRENCH, AS PER PLAN	340
		160	160			625	29401	160	FT	TRENCH IN PAVED AREAS, AS PER PLAN	340
		3	3			625	30700	3	EACH	PULL BOX, 725.08, 18"	
		1	1			625	30706	1 7	EACH	PULL BOX, 725.08, 24"	
		<u>5</u> 20	5 20			625 625	30730 32000	5 20	EACH EACH	PULL BOX, 725.08, 48", TYPE 1 GROUND ROD	
_		4	4			630	79100	4	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
		15	15			630	79500	15	EACH	SIGN SUPPORT ASSEMBLY, POLE MOUNTED	
7											
		34.5	34.5			630	80100	34.5	SF	SIGN, FLAT SHEET	
		8	8			630	80511	8	EACH	SIGN, STREET NAME, AS PER PLAN. HIGH INTENSITY REFLECTIVE	341
						070	15115			WHITE LEGEND AND BLUE SHEETING	
i l		19	19			632	05007	19 9	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, WITH BACKPLATES VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, WITH BACKPLATES	344
		9	9			632	05087	9	EACH	VEHILULAR SIGNAL HEAD, (LED), 5-SECTION, 12 LENS, 1-WAT, POLICARDONATE, AS PER PLAN, WITH BACAPLATES	344
			13			632	20731	13	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	343
			10			632	20751	10	EACH	ACCESSIBLE PEDESTRIAN PUSHBUTTON, AS PER PLAN	342
			25			632	25001	25	EACH	COVERING OF VEHICULAR SIGNAL HEAD, AS PER PLAN	342
			9			632	25010	9	EACH	COVERING OF PEDESTRIAN SIGNAL HEAD	
			1,517			632	40200	1,517	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG	
			2 500			672	40700	2 500	ET	CICNAL CARLE 7 CONDUCTOR NO. 14 AWC	
			2,589 7			632 632	64010	2,589 7	FT EACH	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG SIGNAL SUPPORT FOUNDATION	
			9			632	64020	9	EACH	PEDESTAL FOUNDATION	
			377			632	68200	377	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG	
			2			632	70001	2	EACH	POWER SERVICE, AS PER PLAN	341
			2			632	70400	2	EACH	CONDUIT RISER, 2" DIAMETER	
			1			632 632	79101 79111	1	EACH EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 2, AS PER PLAN COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN	341 341
			1			632	79131	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN	341
			1			632	79131	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12, AS PER PLAN, WITH TWO (2) MAST ARMS	341
D			1			632	79141	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 13, AS PER PLAN	341
			2			632	79151	2	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN	341
			3			632	80700	3	EACH	SIGNAL SUPPORT, MISC.: SIGNAL SUPPORT, MECHANICAL DAMPER FOR TC-81.22 MAST ARM (GREATER THAN 39' IN LENGTH)	340
			9			632 632	90001	1	EACH EACH	PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN PEDESTAL, 15', TRANSFORMER BASE	341 341
			,			032	30000	,	LAUIT	TEDESTAL, 13, THANSI ORMER DASE	341
			2			632	90101	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN	341
			7			632	90104	7	EACH	REUSE OF TRAFFIC CONTROL ITEM, PREEMPT CONFIRMATION LIGHT	
			2			633	65511	2	EACH	CABINET, TYPE TS-2, AS PER PLAN	345
			2			633	67100	2	EACH	CABINET FOUNDATION	7.15
			2			633	75001	2	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	345
			1			809	69001	1	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	344
			2			809	69123	2	EACH	ATC CONTROLLER, AS PER PLAN, V6.24	344
			4			809	69200	4	EACH	EMERGENCY VEHICLE PREEMPTION	
			2			816	30001	2	EACH	VIDEO DETECTION SYSTEM, AS PER PLAN (360 DEGREE)	345
	LS		LS			632	90300	LS		SIGNALIZATION, MISC.: SYSTEM INTEGRATION	343
							-				
							+				
						1					
			I	1							1

LIGHTING NOTES:

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THE STREET LIGHTING SHALL BE IN ACCORDANCE WITH THE 2019 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS TOGETHER WITH THE REQUIREMENT OF THE CITY OF DELAWARE, INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE WITH THE DATE OF THE CONTRACT, SHALL GOVERN ALL MATERIAL AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

THE CONTRACTOR SHALL INSTALL STREET LIGHTS AT THE LOCATIONS SHOWN ON THESE PLANS, INCLUDING ALL CABLE AND DISCONNECTS AND PROVIDE A COMPLETE, OPERATING LIGHTING SYSTEM, THAT COMPLIES WITH THE CITY OF DELAWARE SPECIFICATIONS.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO AN EQUAL OR BETTER CONDITION THAT EXISTED PRIOR TO CONSTRUCTION.

WHERE EXCAVATIONS OCCUR ALONGSIDE OF CURBS OR SIDEWALKS, THE CONTRACTOR SHALL SHORE, BRACE, OR SUPPORT PIECES IN PLACE SO THAT THEY WILL NOT BECOME DISLODGED OR DAMAGED. ANY DAMAGED CURB OR SIDEWALK SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE. THE COST OF THE WORK SHALL BE INCLUDED IN THE VARIOUS ITEM BID.

MAINTAIN A MINIMUM OF 3-FT HORIZONTAL AND 1-FT VERTICAL CLEARANCE FROM ALL WATER AND SEWER LINES.

CIRCUIT VOLTAGE SHALL BE 120/240 VOLT, 3 WIRE, WITH GROUNDED NEUTRAL.

NO SPLICES SHALL BE MADE IN CIRCUIT CABLES, EXCEPT AT NOTED LOCATIONS. SPLICES CAN BE MADE IN PULL BOXES ONLY WHERE CIRCUIT BRANCHES ORE WHERE CIRCUIT CROSSES THE STREET TO A LIGHT POLE.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE POWER UTILITY FOR THE PRECISE LOCATION OF THE CONTROL CENTER AND POWER FEED TO THE CONTROL CENTER. ALL COST ASSOCIATED WITH MAKING THE CONNECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THE WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS BID.

THE CONTRACTOR SHALL PERFORM THE NECESSARY CONSTRUCTION STAKING AND MAINTENANCE OF STAKING FOR LOCATION OF CABLE ROUTING AND STREET LIGHTING EQUIPMENT (LIGHT STANDARDS, PULL BOXES, CONTROL SITE, ETC.). THE COST OF THE WORK SHALL BE INCLUDED IN THE VARIOUS BID ITEM.

CONDUIT LOCATION MAY BE DEFLECTED AND LIGHT POLE FOUNDATIONS MAY BE RELOCATED AROUND OBSTACLES OR UTILITIES AS APPROVED BY DES.

PULL BOXES SHALL BE LOCATED APPROXIMATELY WHERE SHOWN ON PLANS WITH THE EXACT LOCATION TO BE DETERMINED IN THE FIELD AFTER CONSTRUCTION IS GIVEN THE LOCATION OF UTILITIES, PAVEMENTS, AND GRADES.

LIGHT STANDARDS- ALL LIGHT STANDARDS SHALL BE ALIGNED ALONG THE ROADWAY, UNLESS OTHERWISE NOTED, WITH FOUNDATION CENTERLINES LOCATED EQUAL DISTANCE FROM EDGE OF CURB. PRIOR TO PLACEMENT OF ANY FOUNDATION, THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF EXISTING UTILITIES AND ACTUAL MARKINGS AND NOTIFY THE ENGINEER OF ANY CONFLICT ON THE PLANS. ALL PROPOSED LIGHT STANDARDS AND EQUIPMENT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR IN REGARDS TO PROPER CLEARANCES FOR EXISTING OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY CONSTRUCTION WORK.

UPON APPROVAL OF THE ENGINEER, FOUNDATIONS MAY BE MOVED SLIGHTLY IN A DIRECTION PARALLEL WITH THE CENTERLINE OF OFFSET TO AVOID POTENTIAL CONFLICT WITH OTHER EACILITIES.

ITEM 625 - LUMINAIRE. POST TOP. SOLID STATE (LED). IES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, 625 AND SS 813, LUMINAIRES FOR POST TOP LED LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES SHALL MATCH THE CITY OF DELAWARE STANDARD POST TOP FIXTURES FOR COLLECTOR STREETS EXCEPT THAT THEY SHALL BE AS FOLLOWS:

LIGHT FIXTURE:

GRANVILLE III PREMIER LED WITH MODERN STYLE HOUSING. GLASS IES TYPE III OPTICS, SEMI CUTTOFF RIBS AND BAND, STANDARD FINAL, GOLD TRIM COLOR, 120-277V AUTO SENSING, 8800 NOMINAL LUMENS, NO COVER, OPTIONAL 120 DEG HOUSE SIDE SHIELD (WHEN REQUIRED ON PLANS

HOLOPHANE GPD3-P30-30K-MVOLT-MS-GL3-BK-R8-ST-TGL

PAINT:

POWDER COATED BLACK, 37031

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, POST TOP, SOLID STATE (LED), IES-III-SEMI CUTOFF-MEDIUM, 8800 LUMENS AS PER PLAN" FOR EACH LUMINAIRE AND DOUBLE LUMINAIRE WHICH SHALL BE FULL COMPENSATION OR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANI IKE MANNER.

ITEM-825 LIGHT POLE, DECORATIVE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, LIGHT POLE UNITS SHALL BE AS FOLLOWS:

LIGHT POLES SHALL MATCH THE CITY OF DELAWARE STANDARD FOR COLLECTOR STREETS FIXTURE POST TYPE B - SINGLE LUMINAIRE AND SHALL BE AS FOLLOWS:

SINGLE LUMINAIRE. THE POST SHALL BE POWDER COATED BLACK, 37031 (UNLESS OTHERWISE SPECIFIED BY THE CITY) AND MATCH THE HOLOPHANE FIXTURE. THE TOTAL LENGTH OF THE LIGHT POLE SHALL BE 15-FEET, NOT INCLUDING THE LUMINAIRE. THE LIGHT POLE SHALL BE MODEL #AATF1515 MANUFACTURED BY MAIN STREET LIGHTING COMPANY.

AN ACCESS DOOR OVER THE HAND HOLE WITH THE INTERIOR HAVING A PERMANENT LABEL MARKER NOTING THE VOLTAGE.

A 1.25" O.D. TUBE SLEEVE WELDED TO THE BACK SIDE (DIRECTLY OPPOSITE CURB AND FLAG BRACKET) TO HOLD BANNER ARMS PER CITY OF DELAWARE STANDARDS.

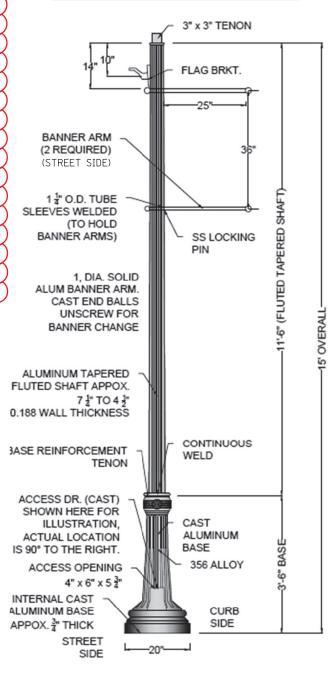
THE BASE SHALL BE CONSTRUCTED OF CAST ALUMINUM.

THE POLE SHALL HAVE AN APPROVED CABLE GRIP ON THE TOP INTERIOR OF THE POLE TO SUPPORT THE WEIGHT OF THE WIRING CABLES.

THE SHAFT SHALL BE A FORMED TAPERED FLUTED SHAFT, TAPERING FROM APPROXIMATELY 7-1/4" TO 4-1/2".

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625 - LIGHT POLE, DECORATIVE, AS PER PLAN FOR EACH LIGHT POLE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

CITY OF DELAWARE LIGHT POLE DETAIL (TYPICAL)



STREET SIDE FLAG BRACKET BOLT CIRCLE -Ø12" CENTER HOLE Ø15" ؾ" ANCHOR CURB SIDE **BOLTS** ACCESS PANEL

ITEM 625 - POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENT OF THE SPECIFICATIONS, THE FOLLOWING IS ADDED.

THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

AEP DISTRIBUTION ATTN: PAUL PAXTON 850 TECH CENTER DR. GAHANNA, OH 43230 614-883-6381

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE, SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE THAT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRE TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.



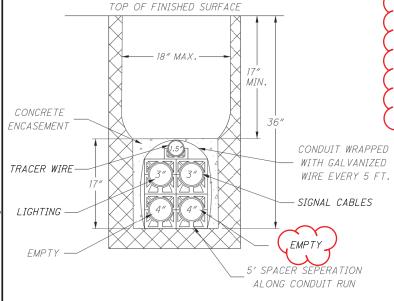
ITEM 625 - CONDUIT, MISC., DUCTBANK

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IN ACCORDANCE WITH CMS 625 AND 725, THE CONDUIT DUCT BANK SHALL BE INSTALLED AS SHOWN IN THE PLANS AND DETAILED BELOW, INCLUDING TRENCH EXCAVATION, TWO (2) 4-INCH CONDUITS, TWO (2) 3-INCH CONDUITS, AND ONE (1) 1.5 -INCH CONDUIT, SPACERS, GALVANIZED WRAP, TRACER WIRE, CONCRETE ENCASEMENT AND COMPACTED BACKFILL. COORDINATE WITH THE CITY OF DELAWARE TRAFFIC DEPARTMENT FOR INSTALLATION OF DUCT BANK, SIGNAL CABLES, FIBER CABLES, AND LIGHTING CABLES.

SECTION A-A

TWO - 4" CONDUITS, TWO - 3" CONDUITS, &
ONE - 1.5" CONDUIT BANK DETAIL
(5 1/2" CENTER-CENTER CONDUIT SEPERATION)



ALL COSTS INCLUDING BUT NOT LIMITED TO, MATERIALS,
DELIVERY, INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE
BID FOR

ITEM 625 CONDUIT MISC .: DUCT BANK, FT.

THE QUANTITY HAS BEEN TABULATED IN THE PLAN

ITEM 625 - CONDUIT, MISC .: UNDERDRAIN OUTLET

THIS ITEM IS FOR THE PLACEMENT OF 4" CONDUIT TO DRAIN THE PULL BOXES AS SHOWN IN SCD HL-30.11. THE DESCRIPTION OF WORK INCLUDING BUT NOT LIMITED TO CONSTRUCTION, MATERIALS, METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE PER ITEM 611 3" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET. THE LOCATION AND PLACEMENT SHALL BE AT THE DIRECTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE ITEM 625 CONDUIT, MISC.: UNDERDRAIN OUTLET

ITEM 625 - CONDUIT, MISC.: UNDERDRAIN OUTLET: 200 FT

ITEM 625 - TRENCH, AS PER PLAN

IN ADDITION TO CMS 625, THE TRENCH DIMENSIONS SHALL BE AS NOMINALLY SHOWN IN THE CONDUIT DUCT BANK DETAIL ON THIS PAGE.

ITEM 625, LUMINAIRE, CONVENTIONAL, LED, IES-III-FULL CUTTOFF-MEDIUM, 3000K-CCT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION AND MATERIAL SPECIFICATION, ITEM 625 AND SS 813, LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE AS FOLLOWS:

LUMINAIRES FOR CONVENTIONAL LIGHTING UNITS SHALL BE 3000K CCT, IES TYPE III, FULL CUTOFF, MEDIUM, AND SHALL HAVE OUTPUT CHARACTERISTICS EQUIVALENT TO:

AMERICAN ELECTRIC "AUTOBAHN ATBM" WITH PHOTOMETRIC
DISTRIBUTION "ATBM P30 XXXXX R3 3K, 14632 LUMENS OUTPUT.
COOPER/EATON "VERDEON" WITH PHOTOMETRIC DISTRIBUTION
"VERD-G-A02E-U-T3-7030-AP", 14500 LUMENS OUTPUT.
GENERAL ELECTRIC "EVOLVE FRLH" WITH PHOTOMETRIC
DISTRIBUTION "ERLH-15C330_____ WITH ELSHS-ERL1-BLCK", 14400
LUMENS OUTPUT OR EQUAL AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS
ITEM 625, "LUMINAIRE, CONVENTIONAL, LED, IES-III-FULL
CUTOFF-MEDIUM, 3000K-CCT AS PER PLAN" FOR EACH LUMINAIRE
WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS
AND INCIDENTALS REQUIRED TO COMPLETE
THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - DISTRIBUTION CABLE, MISC.: NO. 8 AWG 2400 VOLT DISTRIBUTION CABLE

WIRE EVERY 5 FT. PROVIDE AND INSTALL NO. 8 2400 VOLT DISTRIBUTION CABLE IN ACCORDANCE WITH CMS 625 AND 725.

PAYMENT WILL BE MADE AT THE UNIT PRICE FOR EACH LINEAR FOOT INSTALLED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES

PROVIDE AND INSTALL 2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLE IN ACCORDANCE WITH CMS 625 AND 725.

PAYMENT WILL BE MADE AT THE UNIT PRICE FOR EACH LINEAR FOOT INSTALLED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - DUCT CABLE, MISC.: 2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLES

PROVIDE AND INSTALL 2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLE IN ACCORDANCE WITH CMS 625 AND 725.

PAYMENT WILL BE MADE AT THE UNIT PRICE FOR EACH LINEAR FOOT INSTALLED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - PULL BOX, MISC. 30"x48" POLYMER PULL BOX

PROVIDE AND INSTALL A 30" X 48" POLYMER PULL BOX IN ACCORDANCE WITH CMS 625 AND 725.

PAYMENT WILL BE MADE AT THE UNIT PRICE FOR EACH PULLBOX INSTALLED AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - LIGHTING, MISC.: LANDSCAPE-MONUMENT SIGN LIGHT

ALL MATERIALS AND WORK SHALL COMPLY WITH ITEM 625 LIGHTING AND APPROPRIATE STANDARD CONSTRUCTION DRAWINGS UNLESS OTHERWISE NOTED HEREIN. THIS ITEM IS INTENDED FOR THE PROPOSED FIXTURES SHOWN ON THE LANDSCAPE PLAN SHEETS 381, 382 AT TWO SEPARATE LOCATIONS:

- STATION 591+86.5, 41.25' RT
- STATION 595+24.4, 54' LT

THE FIXTURE AT THESE LOCATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS. THE FOLLOWING FIXTURE SHALL BE USED: KIM LIGHTING, KFL1±-8L-2O-4KT-VF-UNV-BLT OR APPROVED EQUAL. THE WORK SHALL INCLUDE ALL WORK, MATERIALS, LABOR AND EQUIPMENT NECESSARY TO INSTALL AND CONNECT PROPERLY FUNCTIONING FIXTURES FOR BOTH THE GROUND MOUNTED FLOODLIGHT AND THE INTERNALLY ILLUMINATED SIGN ON THE OPPOSITE SIDE OF THE MONUMENT SIGN. THE DETAILS PERTAINING TO THE SPECIFIC LOCATIONS ARE PROVIDED ON THE LANDSCAPE PLAN AND THE QUANTITY IS PROVIDED ON THE LIGHTING PLAN VIA THE ESTIMATED QUANTITY SUB-SUMMARY TABLES. PAYMENT FOR THIS WORK SHALL BE THE UNIT PRICE BID FOR LIGHTING, MISC.: LANDSCAPE-MONUMENT SIGN LIGHT, EACH.

ITEM 625 - LIGHTING, MISC.: LANDSCAPE-ABUTMENT LIGHT

ALL MATERIALS AND WORK SHALL COMPLY WITH ITEM 625
LIGHTING AND APPROPRIATE STANDARD CONSTRUCTION DRAWINGS
UNLESS OTHERWISE NOTED HEREIN. THIS ITEM IS INTENDED FOR
THE PROPOSED FIXTURES SHOWN ON THE LANDSCAPE PLAN
SHEET 382 AT FOUR SEPARATE LOCATIONS:

- STATION 593+97.89, 44.34' LT
- STATION 594+25.09, 50.00' RT
- STATION 594+25.15, 45.08' LT
- STATION 594+55.71, 49.69' RT

THE FIXTURE AT THESE LOCATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS. THE FOLLOWING FIXTURE SHALL BE USED: KIM LIGHTING LTV82-SS-NF-12L-RGBW-UV-SR-RCA82 OR APPROVED EQUAL. THIS WORK SHALL INCLUDE ALL WORK, MATERIAL, LABOR AND EQUIPMENT NECESSARY TO INSTALL AND CONNECT PROPERLY FUNCTIONING FIXTURES FOR THESE FIXTURES TO SHINE ON THE ABUTMENT WALL AS DESCRIBED IN THE LANDSCAPE PLAN. THE DETAILS PERTAINING TO THE SPECIFIC LOCATIONS ARE PROVIDED ON THE LANDSCAPE PLAN AND THE QUANTITY IS PROVIDED ON THE LIGHTING PLAN VIA THE ESTIMATED QUANTITY SUB-SUMMARY TABLES. PAYMENT FOR THIS WORK SHALL BE THE UNIT PRICE BID FOR LIGHTING, MISC.: LANDSCAPE-ABUTMENT LIGHT, EACH.

PROPOSED CONDUIT AND PROPOSED TREES

ROUTE UNDERGROUND CONDUITS AROUND LOCATIONS OF PROPOSED TREES

PROPOSED CONDUIT IN RAILROAD PROPERTY

ALL UNDERGROUND CONDUITS WITHIN RAILROAD RIGHT-OF-WAY SHALL BE A MINIMUM OF 48" BELOW FINISHED GRADE OR AS APPROVED THROUGH THE PERMIT PROCESS.



	SHEET NUM.						PART.	\sim	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
	365	367	368	369	370	01/NHS/PV	02/S>2/P	06/ENH/31		EXT	TOTAL	01111	SECONII TION	NO.
		30	28	32	30	120	40	U	625	00450	160	EACH	CONNECTION, FUSED PULL APART	
		30		18	18	66		~	625	00480	84	EACH	CONNECTION, UNFUSED PERMANENT	
		13	5	12			<i>></i>	48	625	10481	48	EACH	LIGHT POLE, DECORATIVE, AS PER PLAN	364
			8	3	9	20		بب	625	10490	20	EACH	LIGHT POLE, CONVENTIONAL, AT8B37	
		13	13	15	9	50	18		625	14100	68	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP	
		2,475	12,388	2,151	108	17,122	639		625	23200	17,761	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
		2,413	12,300	2,101	1,731	1,731	033		625	23308	1,731	FT	DISTRIBUTION CABLE, MISC.: NO. 8 AWG 2400 VOLT DISTRIBUTION CABLE	365
		664	1,616	894	1,026	4,200	720		625	23400	4,920		NO. 10 AWG POLE AND BRACKET CABLE	300
		1,209	1,70.10	1,250	1,995	4,454	2,050		625	24400	6,504	FT	DUCT CABLE, MISC.:2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLES	365
		•		,	856	856	·		625	24400	856	FT	DUCT CABLE, MISC.:2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES	365
		69	84	29	355	537	17		625	25402	554	FT	CONDUIT, 2", 725.05	
		250	168	472	267	1,157	202		625	25902	1,359	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"	705
<u> </u>	200	693	2 , 545	464		3,702	112		625	25920	3,814	FT	CONDUIT, MISC.: DUCT BANK	365
2	200		0	3	0	200 20	95		625 625	26253	200	FT	CONDUIT, MISK: UNDENDRAIN OUTLAT LUMINAIRE, CONVENȚIONAL, ȘOLID SȚATE (LED) IEȘ-III-FULL CUTTOFF-MEDIUM, 3000K-CCT, AS PER PLAN	365 365
5			8)	9	20	95	\sim	025	20200	113	EALH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED) IES-III-FOLL COTTOPF-MEDIUM, SOUDK-CCT, AS FER PLAN	363
		13	5	12			 	48	625	27403	48	FACH	LUMINAIRE, POST TOP, SOLID STATE (LED) IES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN VIRENCEL	364
2		1,278	84	1,279	3,007	5,648	2,06		625	29000 T	7,715	FT	VRENCH VERENCH	307
		693	2,545	464	, , , , , ,	3,702	_,_,_,		625	29001	3,702	FT	TRENCH, AS PER PLAN	365
4		8	13	8	1	30	4		625	30700	34	EACH	PULL BOX, 725.08, 18"	
4		2	1	2	1	6	2		625	31600	8	EACH	PULL BOX, MISC .: 30" x 48" POLYMER PULL BOX	365
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20		13	13	15	9	50	18		625	32000	68	EACH	GROUND ROD	
٥		1.071	0.000	1 747	2	2	0.007		625	34001	2	EACH	POWER SERVICE, AS PER PLAN	364
		1,971	2,629	1,743	3,007	9,350	2,067		625	36010	11,417	FT	UNDERGROUND WARNING/MARKING TAPE	
9			1	1			(2	625	98000	2	EACH	LIGHTING, MISC.: LANDSCAPE - MONUMENT LIGHT	365
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SHEET SOLID STATE (LED), ES-III-TALL COTORUT, AS PER PLAN COMMECTION, UNFUSED, PERMANENT LIGHT POLE, CONVENTIONAL, AT8833 LONDUT, ACKED ON DRILLED, 72°, 72°, 05 CONDUIT, ACKED ON DRILLED, 72°, 72°, 05 CONDUIT, ACKED ON DRILLED, 72°, 72°, 04 CONDUIT, ACKED ON DRILLED, 72°, 72°, 72°, 04 CONDUIT, ACKED ON DRILLED, 72°, 72°, 72°, 72°, 72°, 72°, 72°, 72°	HEEP COMMECTION, INKUSED, PULL APART COMMECTION, UNKUSED, PULL APART COMMECTION, UNKUSED, PERIAMENT LIGHT POLE, CONVENTIONAL, AT8837 LIGHT POLE, DECORATIVE, AS PER PLAN NO. 4 AMS 2400 VOLT DISTRIBUTION CABLE NO. 10 AMS POLE AND BRACKET CABLE MITH THREE NO. 8 2400 VOLT DISTRIBUTION CABLE NO. 10 AMS POLE AND BRACKET CABLE MITH THREE NO. 8 2400 VOLT DISTRIBUTION CABLE CONDUIT, JACKED OR DRILLED, 725.04, 3* CONDUIT, JACKED, JAC	S1-B19	372	US-36			2			1	1			40		150					1	150			1		150				
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615+62 RT 617+07 RT 745 149 149 149		-+-	1		\rightarrow						19 +	_				+	149		·			50	745	-+	\dashv	+	+	+-		+						- 476
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TOTALS CARRIED TO SUBSUMMARY 28 0 8 5 13 0 12388 1616 0 0 84 168 2545 8 5 84 2545 13 13 0 2629 1 0 0	0 0	0 0				23	202	L	IJ	IJ	140	2545	04	J	'		2040	100	04	U	U	סוטו	1200	V	ıJ	٥	<u> </u>	<u> </u>			DOIMINIAU I	IO SUB	IOTALS CARRIED			

	REF.	SHEET	ROADWAY	STATION TO STATION	CONNECTION, FUSED, PULL APART	CONNECTION, UNFUSED, PERMANENT	LIGHT POLE, CONVENTIONAL, AT8B37	LIGHT POLE, DECORATIVE, AS PER PLAN	LIGHT POLE FOUNDATION, 24" X 8' DEEP	DISTRIBUTION CABLE, MISC: NO. 8 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLES	CONDUIT, 2", 725.05	CONDUIT, JACKED OR DRILLED, 725.04, 3"	CONDUIT, MISC.: DUCT BANK	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), IES-III-FULL CUTTOFF-MEDIUM, 3000K-CCT LUMENS, AS PER PLAN	SOLID STATE (LED), LES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN	TRENCH	TRENCH, AS PER PLAN	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE	PULLBOX, MISC: 30" x 48" POLYMER PULL BOX		
	S1-E6	378	US-36	615+62 RT	EACH	EACH	EACH 1	EACH	EACH 1	FT	FT	FT 114	FT	FT	FT	FT	FT	LEARH VI	J EACH	FT	FT	EACH	EACH 1	EACH	FT	EACH		ES
0	PB-E7	378	US-36	617+07 RT 617+07 RT	2							36			6					6		1			6			∄Ē∣
,	S1-E7	378	US-36	617+07 RT 618+62 RT 617+07 RT			1		1		468	114					156	1			156		1		156			ш ⊢ ∣
7	PB-D1	379	US-36	618+62 RT 618+62 RT 618+62 RT	2							36			6					6		1			6			O U A N
0	S1-D1	379	US-36	618+62 RT 619+11 RT 618+62 RT			1		1		114	114					38	1			38		1		38			∄ ਰੋ ∣
1	PB-D2	379	US-36	619+11 RT 620+41 RT	2						393						131				131				131	1		
c L	5 S1-D2	379	US-36	619+11 RT 619+15 RT 619+15 RT							18				6					6					6			╢┇╵
(PB-D3	379	US-36	620+40 RT 620+54 LT	2						417						139				139				139	1		LIGHTING
- ()	S1-D3	379	US-36	620+40 RT 620+51 RT 620+51 RT							33				11					11					11			∄≝∣
0 2 0 7	S1-A14	380	SR-37	15+71 LT 15+71 LT 17+49 LT	2			1	1			40		177					1	177			1		177			<u> </u>
-	S1-A13	381	SR-37	17+49 LT 17+49 LT 19+18 LT	2			1	1			40		168					1	168			1		168			1
·	S1-A12	381	SR-37	19+18 LT 19+18 LT 19+35 LT	2			1	1			40		18					1	18			1		18			∄ !
- - -	PB-A7	381	SR-37	19+35 LT 19+98 LT		3					189					126						1						1
	PB-A6	381	SR-37	19+98 LT 19+98 LT 30+89 LT	0	3		1	4			40		93					1	93		1	1		93			#
(9092	S1-A11	382	SR-37WB	30+89 LT 30+89 LT 31+96 LT 31+96 LT	2			1	1			40		108					1	108			1		108			#
- 5	S1-A10 S1-A9	382	SR-37WB	31+96 LT 32+97 LT 32+97 LT	2			1	1			40		101					1	101			1		101			#
	S1-A9	374	SR-37WB	32+97 LT 34+01 LT 34+01 LT	2			1	1			40		104					1	104			1		104			#
	S1-A0	374	US-36	34+01 LT 35+05 LT 35+05 LT	2			1	1			40		104					1	104			1		104			#
Ċ	PB-A5	374	US-36	35+05 LT 35+08 LT 35+08 LT	2	3		'	ı			70		3					'	3		1	'		3			#
	PB-A4	374	US-36	35+08 LT 594+68 LT 594+68 LT		3					270					180						1						e
(S1-A6	374	US-36	594+68 LT 594+72 LT 594+72 LT	2			1	1			40		3					1	3			1		3			# ₽
	S1-A5	374	US-36	594+72 LT 595+64 LT 595+64 LT	2			1	1			40		95					1	95			1		95			36-
,	S1-A4	374	US-36	595+64 LT 596+63 LT 596+63 LT	2			1	1			40		103					1	103			1		103			╢╏
	S1-A3	374		596+63 LT 597+67 LT 597+67 LT	2			1	1			40		105					1	105			1		105			
- - - - -	PB-A3	374		597+67 LT 597+82 LT 597+82 LT		3								16						16		1			16			$\#^- \mid$
-	PB-A2	375		597+82 LT 598+65 LT 598+65 LT		3					249					166						1						\parallel
9	5			598+65 LT 599+17 LT	72	10	7	12	15		2151	NOΩ		52 1250	29	472	464	7	12	52 1279	464	ρ	15	^	52 1743	2		369 644
	PB-A2			598+65 LT	32	18	3	12	15	0	2151	894	0	52 1250	29	472	464	3	12	52 1279	464	8	15	0	52 1743	2		

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REF.	SHEET	ROADWAY	STATION TO STATION	CONNECTION, FUSED, PULL APART	CONNECTION, UNFUSED, PERMANENT	LIGHT POLE, CONVENTIONAL, AT8B37	LIGHT POLE, DECORATIVE, AS PER PLAN	LIGHT POLE FOUNDATION, 24" X 8' DEEP	DISTRIBUTION CABLE, MISC: NO. 8 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLES	CONDUIT, 2", 725.05	CONDUIT, JACKED OR DRILLED, 725.04, 3"	CONDUIT, MISC.: DUCT BANK	LUMINAIRE, C SOLID STATE (LED), IES-1 3000K-CCT LUME	SOLID STATE (LED), IES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN	TRENCH	TRENCH, AS PER PLAN	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE	PULLBOX, MISC: 30" x 48" POLYMER PULL BOX			
S1-A2	375	US-36	 599+17	EACH 2	EACH	EACH 1	EACH	EACH 1	FT	FT	FT 114	FT	FT	FT	FT	FT	<u>JEAOH</u>	<u>LENCH</u>	J FT	FT	EACH	EACH 1	EACH	FT	EACH		\longrightarrow	
31 AZ	313	03 30	599+17 LT 601+31 LT			<u>'</u>	\vdash	<u></u>			119		214				<u></u>		214				-	214			\rightarrow	
S1-A1	375	US-36	601+31 LT	2		1		1			114						1					1						
			601+31 LT 602+39 LT										107						107					107				
PB-A1	375	US-36	602+39 LT		6		$\vdash \vdash$			100				7.0											1			
			602+39 LT 602+46 LT 602+39 LT 603+50 LT				\vdash			108			112	36					9 112			\longrightarrow	\longrightarrow	9 112			\longrightarrow	
CC S1	375	US-36	602+46 LT				\vdash						112						112			-	1	112			-+	
S1-C1	376	US-36	603+50 LT	2		1		1			114						1					1						
			603+50 LT 605+71 LT										222						222					222				
S1-C2	376	US-36	605+71 LT	2		1	\vdash	1			114		000				1		200			1		- 000			\longrightarrow	
S1-C3	376	US-36	605+71 LT 607+92 LT 607+92 LT	2		1	\vdash	1			114		220				1		220			1	\longrightarrow	220			\longrightarrow	
31 63	310	03 30	607+92 LT 610+11 LT			<u> </u>					- 111		220				<u>'</u>		220				-	220			-+	
S1-C4	377	US-36	610+11 LT	2		1		1			114						1					1						
			610+11 LT 612+32 LT										222						222					222				
S1-C5	377	US-36	612+32 LT	2		1	\vdash	1			114		007				1		227			1		207			\longrightarrow	
S1-C6	378	US-36	612+32 LT 614+53 LT 614+53 LT	2		1	\vdash	1			114		223				1		223			1	\longrightarrow	223			\longrightarrow	
31 00	310	05 50	614+53 LT 616+74 LT	-		- '		'			117		222				<u>'</u>		222					222			-+	
S1-C7	378	US-36	616+74 LT	2		1		1			114						1					1						
22 01	770	110.70	616+74 LT 619+08 LT				igsquare						233						233					233			\longrightarrow	
PB-C1	379	US-36	619+08 LT																					-			\longrightarrow	
							\vdash															-					-+	
S2-F6	373	US-36	591+80 RT				\sqcup							7.0													\longrightarrow	
PB-B8	373	US-36	591+80 RT 592+48 RT 592+48 RT	2			\vdash		210					70					70			\longrightarrow	\longrightarrow	70			\longrightarrow	
1000	313	03 30	592+48 RT 593+93 RT				\vdash		435					145								-					-+	
PB-B7	374	US-36	593+93 RT	4																								
			593+93 RT 593+23 RT						90					30					30					30				
			593+93 RT 594+55 RT	1			$\vdash \vdash \vdash$		195					65	100				65				,	65			\longrightarrow	
S2-F5	374	US-36	593+93 RT 595+02 RT 593+23 RT	1			$\vdash \vdash$		318						106				\vdash					-	\rightarrow	-+	\rightarrow	
52-F4	374	US-36	594+55 RT	1																		\longrightarrow		-	-+	-+	-+	
PB-B6	374	US-36	595+02 RT																									
			595+02 RT 595+22 LT		<u> </u>		\Box		231						77										\Box		\Box	
PB-F1	374	US-36	595+22 LT 594+68 LT	2	3		$\vdash \vdash \vdash$		-			55							55		1			55			\longrightarrow	
			595+22 LT 595+16 LT	1								20							20					20	\rightarrow	\rightarrow	\rightarrow	
			595+22 LT 597+82 LT									270							270					270				
PB-A4	374	US-36	594+68 LT	4																								
			594+68 LT 594+03 LT	1	1		\longrightarrow					70							70				,	70			\longrightarrow	
22-57	374	US-36	594+68 LT 594+33 LT 594+33 LT	1			$\vdash \vdash \vdash$					40							40					40		\rightarrow	\rightarrow	
S2-F3 S2-F2	374	US-36	594+03 LT	1								1				+ +							,——-	\rightarrow	\rightarrow	\rightarrow	\rightarrow	
S2-F1	374	US-36	595+16 LT	1																			,	-	-	-	\rightarrow	
PB-A3	374	US-36	597+82 LT		3																							
			597+82 LT 598+65 LT		<u> </u>		\Box		252						84										\Box	\Box	\bot	
	375	US-36	598+65 LT 602+39 LT	1	3		$\vdash \vdash \vdash$					774							374					77/			\longrightarrow	
PB-A2		1	598+65 LT 602+39 LT	1	3		\vdash					374				 			314					374	\rightarrow	-+	\rightarrow	
	375	115-36	1602±39				. ,		i .			1		1	1				i 1	- 1							1	
PB-A2 PB-A1	375	US-36	602+39 LT 602+40 LT		3							27		9					9	ĺ			1	9				
	375 375				J							27		9					9				1	9				

QUANTITIES

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O MA G	REF.	SHEET	ROADWAY	STATION TO STATION	CONNECTION, FUSED, PULL APART	CONNECTION, UNFUSED, PERMANENT	LIGHT POLE, CONVENTIONAL, AT8B37	LIGHT POLE, DECORATIVE, AS PER PLAN	LIGHT POLE FOUNDATION, 24" X 8' DEEP	DISTRIBUTION CABLE, MISC: NO. 8 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 10 AWG POLE AND BRACKET CABLE	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 8 2400 VOLT CABLES	DUCT CABLE, MISC: 2" DUCT CABLE WITH THREE NO. 4 2400 VOLT CABLES	CONDUIT, 2", 725.05	CONDUIT, JACKED OR DRILLED, 725.04, 3" CONDUIT, MISC.: DUCT BANK	ONAL, OFF-MEDIUM, 3000K-CCT	SOLID STATE (LED), JES-III-SEMI CUTTOFF-MEDIUM, 8800 LUMENS, AS PER PLAN	TRENCH	TRENCH, AS PER PLAN	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE	PULLBOX, MISC: 30" × 48" POLYMER PULL BOX					
50:52					EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT FT	EACH	PACH	FT	FT	EACH	EACH	EACH	FT	EACH					
, 0	PB-D4	379	US-36	620+54 LT 52+02 RT	2	3								164					164					164	_1	\vdash		-+	-	
5.00	S1-D4	379	US-36	620+54 LT 620+48 LT 620+48 LT							27				9				9					9						
2/9/	S1-D4	383	SR-521	52+02 RT	2			1	1			40						1				1								
+	S1-D6	383	SR-521	52+02 RT 53+12 RT 53+12 RT	2			1	1			40		110				1 1	110			1		110		\vdash		\longrightarrow		
9				53+12 RT 53+40 RT				'				10		27				<u>'</u>	27					27						
ν: <u>-</u>	PB-D5	383	SR-521	53+40 RT 54+43 RT	-	3					303					202					1					\longmapsto		-		
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SOS	S1-D7	383	SR-521	54+43 RT 54+47 RT 54+47 RT	2			1	1			40		3				1 1	3			1		3		\longmapsto		\longrightarrow		
- 92	31 01	303	31(321	54+47 RT 55+41 RT				'				70		96				'	96			'		96						
365	S1-D8	383	SR-521	55+41 RT 26+05 RT	2			1	1			40		109				1	109			1		109		\longmapsto		\longrightarrow		
S/ 1	S1-D9	383	SR-521	26+05 RT	2			1	1			40		103				1	103			1		103				-		
	S1-D10	384	SR-521	26+05 RT 57+99 RT 57+99 RT	2			1	1			40		145				1	145			1		145						
ν. -	, n	304		57+99 RT 60+07 RT				l				40		206					206			<u> </u>		206				-		
	S1-D11	384	SR-521	60+07 RT 61+23 RT	2			1	1			40		129				1	129			1		129		\vdash		-		
.=	S1-D12	384	SR-521	61+23 RT	2			1	1			40		123				1	123			1		12.9				$-\pm$		
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0 2516	S1-C9	379	SR-521	51+39 LT 51+39 LT 52+42 LT	2			1	1			40		110				1	110			1		110						
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P		303		53+51 LT 54+65 LT				'	_			70		116				1	116					116				\pm		
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9 2 2	S1-C13	383	SR-521	55+86 LT	2			1	1			40		123				1	123			1		123				\pm		
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fnet	PB-C2	384	SR-521	59+29 LT	2	3								JI .					JI		1			JI						
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) C	S1-C16	384	SR-521	59+29 LT 59+30 LT				1	1			40					<u></u>	1				1						+		
======================================	PB-C3	384	SR-521	60+21 LT 60+21 LT 61+46 LT	2	3								126					126		1			126		$\vdash \Box$		$ \mp$		
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QUANTITIES

LIGHTING

DEL-36-11,03

ITEM EXT.

ITEM

TOTAL

QUANTITY

UNIT

NO. 202 11003 LUMP STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN LUMP 6 / 34 LS 502 12301 LUMP STRUCTURE FOR MAINTAINING TRAFFIC (RAILROAD), AS PER PLAN - TEMPORARY BRIDGE DECK LUMP 502 12301 LUMP LS STRUCTURE FOR MAINTAINING TRAFFIC (RAILROAD), AS PER PLAN - TIED SHORING WALLS LUMP 6 / 34 COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN 503 11101 LUMP LUMP CY 4 / 34 503 20 UNCLASSIFIED EXCAVATION, AS PER PLAN 20 509 10000 9,501 EPOXY COATED REINFORCING STEEL CLASS OCI CONCRETE WITH OC/OA, ABUTMENT, NOT INCLUDING FOOTING, AS PER PLAN 511 44113 44 CY21 23 511 46513 58 CLASS QC1 CONCRETE WITH QC/QA, FOOTING, AS PER PLAN 28 30 5 / 34 CY 513 352,776 STRUCTURAL STEEL MEMBERS, LEVEL 6, AS PER PLAN 5 / 34 10321 LB 352,776 516 46201 EACH BEARING DEVICE, ROCKER, AS PER PLAN 8 516 BEARING DEVICE, MISC.: SELF-LUBRICATING CYLINDRICAL BEARING (EXP) 31 / 34 46900 8 EACH POROUS BACKFILL WITH GEOTEXTILE FABRIC 518 87 26 35 21200 26 518 310 6" PERFORATED CORRUGATED PLASTIC PIPE 310 40000 FΤ 518 40010 38 FΤ 6" PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS 38 518 42201 384 8" PERFORATED CORRUGATED STEEL PIPE, 707.01, AS PER PLAN 182 202 518 42301 194 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN 97 97 5 / 34 264 DRILLED SHAFTS, 42" DIAMETER, INTO BEDROCK, AS PER PLAN 132 132 5 / 34 524 872 DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK, AS PER PLAN 5 / 34 524 94903 FT 436 436 524 12 EACH DRILLED SHAFTS, MISC .: CSL TESTING 6 6 4 / 34 SPECIAL 53000200 LUMP LS SPECIAL - STRUCTURE, MISC.: SURVEY AND MONITORING OF TRACK AND TEMPORARY SHORING LUMP 7 / 34 840 23001 3,960 SELECT GRANULAR BACKFILL, AS PER PLAN 1,831 2,129 7 / 34

ESTIMATED TEMPORARY BRIDGE QUANTITIES

DESCRIPTION

Gannett Fleming

Gannets & Architects, P.C.

CALC: RSN CHECK: JS

SHEET

SUPER GENERAL

REAR

FWD

QUANTITIES
PORARY NS MP SITY OF DELAWARE ESTIMATED BRIDGE C : NO. DEL-36-TEMP (TEMPO ISRR OVER US 36 / 37 (CIT

PROJECT POINT



ITEM

EXT.

11003

11101

21101

10000

ITEM

202

503

503

509

TOTAL

QUANTITY

LUMP

LUMP

922

89,352

UNIT

LS

CY

STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

UNCLASSIFIED EXCAVATION, AS PER PLAN

EPOXY COATED REINFORCING STEEL

OI DRIVER: ODOTcodd_PDF_Levels.pltcfg

34447 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK, AS PER PLAN 188 403/644 511 188 4 / 42 511 34451 17 CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN 17 403/644 511 44113 214 CLASS QCI CONCRETE WITH QC/QA, ABUTMENT, NOT INCLUDING FOOTING, AS PER PLAN 108 511 46513 215 CYCLASS QCI CONCRETE WITH QC/QA, FOOTING, AS PER PLAN 109 106 403/644 511 71200 3,676 CONCRETE, MISC.: FACING OF SUBSTRUCTURES 1,879 1.797 4 / 42 SEALING OF CONCRETE SURFACES, AS PER PLAN 512 10001 703 360 343 5 / 42 512 10100 773 SY SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) 333 300 140 512 44451 642 SY TYPE E WATERPROOFING, AS PER PLAN 642 4 / 42 SPECIAL - ASPHALTIC PANEL SPECIAL 51256202 1,284 1,284 SY 5 / 42 SPECIAL - WATERPROOFING, MISC .: DAMPPROOFING OF RAILROAD STRUCTURES SPECIAL 51267400 3,893 SF 4 / 42 2,004 1,889 403/644 1,203,486 STRUCTURAL STEEL MEMBERS, LEVEL 6, AS PER PLAN 513 10321 LB 1,203,486 513 20000 5,544 EACHWELDED STUD SHEAR CONNECTORS 5,544 514 80020 38,898 SF SHOP PAINTING AND FIELD TOUCH-UP OF STRUCTURAL STEEL 38,898 5 / 42 12201 107 STRUCTURAL STEEL EXPANSION JOINT, AS PER PLAN 107 5 / 42 516 1/2" PREFORMED EXPANSION JOINT FILLER 516 13200 78 SF 39 39 516 46201 14 EACH BEARING DEVICE, ROCKER, AS PER PLAN 0 14 29 / 42 516 46900 14 BEARING DEVICE, MISC.: SELF-LUBRICATING CYLINDRICAL BEARING (EXP) 14 0 28 / 42 225 38 - 39 / 42 76300 225 RAILING, MISC .: NSRR ALUMINUM HANDRAIL WITH VANDAL PROTECTION FENCE 517 199 FΤ 102 97 38/42 76300 RAILING, MISC .: NSRR ALUMINUM HANDRAIL ON WINGWALLS 21200 457 POROUS BACKFILL WITH GEOTEXTILE FABRIC 233 224 518 42201 268 FΤ 8" PERFORATED CORRUGATED STEEL PIPE, 707.01, AS PER PLAN 137 131 403/644 518 42301 378 8" NON-PERFORATED CORRUGATED STEEL PIPE, INCLUDING SPECIALS, 707.01, AS PER PLAN 208 170 403/644 518 63300 LUMP LS STRUCTURE DRAINAGE, MISC.: SUPERSTRUCTURE DRAINAGE SYSTEM LUMP 5 / 42 DRILLED SHAFTS, 30" DIAMETER, ABOVE BEDROCK, AS PER PLAN 403/644 524 94603 230 FΤ 115 115 524 804 FΤ DRILLED SHAFTS, 42" DIAMETER, INTO BEDROCK, AS PER PLAN 408 396 403/644 94805 524 2,558 FΤ DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK, AS PER PLAN 1301 1257 403/644 94903 524 95100 402/644 39 EACH DRILLED SHAFTS, MISC .: CSL TESTING 20 19 5 / 42 SPECIAL - FORM LINER SPECIAL |53013000 3,346 1,714 1,632 SF CONDUIT, 4", 725.051, AS PER PLAN 234 32 / 42 625 25605 234

ESTIMATED PERMANENT BRIDGE QUANTITIES

DESCRIPTION

DESIGN AGENCY

ENGINEERS & ARCHITECTS, P.C.
ZSGO CORPORATE EXCHANGE DRIFE SUITE 230
CQLUMBUS, OHIO 43231

CALC: RSN

GENERAL

LUMP

SUPER

REAR

461

FWD

461

24,718 | 25,673 | 38,961

CHECK: JS

SHEET

NO.

4 / 42

402/644

437/644

D DRAWN REVIEWED DATE
CTM EFD 05/2021
CTM SEPT 2100968
CTM STATE BRO019283
E86

ESTIMATED BRIDGE QUANTITIES
BRIDGE NO. DEL-36-1126 (NS MP S-23.80)
VSRR OVER US 36 / 37 (CITY OF DELAWARE)

POINT PROJECT PID No. 103626

6 / 42

STONE FOR USE AS BALLAST ON TRACKS, OR PORTIONS OF TRACKS, TO BE OWNED BY THE RAILWAY COMPANY, SHALL BE FURNISHED BY RAILROAD APPROVED QUARRY, AND SHALL BE CRUSHED STONE (GRANITE) CONFORMING TO THE REQUIREMENTS OF NS RAILWAY CHIEF ENGINEER.

BALLAST UNDER TEMPORARY TRACKS IS TO BE SUPPLIED BY NSRR AND PLACED BY NSRR IN PHASE 1. TEMPORARY BALLAST
SHALL NOT BE MODIFIED UNLESS APPROVED BY NSRR. AT THE
COMPLETION OF THE PROJECT, THE CONTRACTOR WILL BE
REQUIRED TO REMOVE THE BALLAST AS DIRECTED BY THE CITY, WHO WILL TAKE OWNERSHIP OF THE TEMPORARY

OTHER BALLAST IS SUPPLIED AND PLACED BY THE RAILROAD.

BALLAST GRADATION SHALL CONFORM TO THE FOLLOWING

SIEVE	SIEVE	#3 BALLAST (MODIFIED)	#5 BALLAST
DESIGNATION	OPENING	% PASSING SIEVE	% PASSING SIEVE
2-1/2"	2.5"	100	-
2"	2"	95-100	-
_	1.5"	30-65	-
1"	1"	0-15	90-100
_	0.75"	-	40-75
_	0.5"	0-5	15-35
3/8"	0.375"	-	0-15
NO. 4	0.187"	-	0-5
NO. 200	0.0029"	O.5 MAX	0.5 MAX

ITEM SPECIAL - RAILROAD FLAGGING

FLAGGING FOR WORK ON RAILROAD RIGHT OF WAY SHALL BE COORDINATED, OBTAINED AND PAID FOR BY THE CONTRACTOR, FLAGGING SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED BY THE NORFOLK SOUTHERN SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS (SECTION 7.A.2). NORFOLK SOUTHERN SHALL APPROVE THE FLAGGING SERVICE PROVIDER AND THEIR

NORFOLK SOUTHERN HAS THE SOLE AUTHORITY TO DETERMINE THE NEED FOR PROTECTIVE SERVICES TO PROTECT ITS OPERATIONS. IN GENERAL, THE REQUIREMENTS OF SUCH SERVICES WILL BE WHENEVER THE CONTRACTOR'S PERSONNEL OR EQUIPMENT ARE OR ARE LIKELY TO BE, WORKING ON THE RAILROAD'S RIGHT-OF-WAY, OR ACROSS, OVER, ADJACENT TO, OR UNDER A TRACK, OR WHEN SUCH WORK HAS DISTURBED OR IS LIKELY TO DISTURB A RAILROAD STRUCTURE OR THE RAILROAD ROADBED OR SURFACE AND ALIGNMENT OF ANY TRACK TO SUCH EXTENT THAT THE MOVEMENT OF TRAINS MUST BE CONTROLLED BY FLAGGING.

THE TOTAL DAYS IN THE ESTIMATED QUANTITIES IS BASED UPON AN ESTIMATE OF TOTAL FLAGGING DAYS NEEDED TO COMPLETE THE PLANNED WORK.

ONLY THE FOLLOWING CERTIFIED FLAGGING PROVIDERS ARE ACCEPTABLE BY NORFOLK SOUTHERN:

NATIONAL RAILROAD SAFETY SERVICES, INC. 7395 KINGSGATE WAY WEST CHESTER, OH 45069 https://www.nrssinc.net/ TIM' SHEPHERD: 877-984-6777

1320 Greenway Dr., Suite 490 Irving, TX 75038 (877) 315-0513 https://railpros.com/contact-field-services/

PAYMENT PER DAY FOR ITEM 690 99500 - SPECIAL - RAILROAD FLAGGING SHALL INCLUDE ALL COSTS OF THE FLAGGING SERVICE FOR THE DAYS USED, INCLUDING ANY CONTRACTOR OVERHEAD FOR ADMINISTERING THE CONTRACT WITH THE FLAGGING SERVICE.

ITEM 203 - EXCAVATION, AS PER PLAN

EXCAVATION SHALL BE IN CONFORMANCE WITH NS STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION. IF BENCHING OF SLOPES CARRYING RAILROAD LIVE LOAD IS REQUIRED, THE HEIGHT SHALL NOT EXCEED 2'-O". BENCHING EXCAVATION QUANTITIES ARE NOT TABULATED HEREIN. IF BENCHING IS REQUIRED, THE QUANTITY AND COST OF EXCAVATING THE BENCH IS TO BE CONSIDERED INCIDENTAL TO THIS PAY ITEM.

PAYMENT FOR THE REMOVAL OF THE GRANULAR FILL BETWEEN THE TIED SHORING WALLS AT THE TEMPORARY BRIDGE IS TO BE INCLUDED WITH THIS PAY ITEM.

PRIOR TO PLACING THE FIRST LIFT OF EMBANKMENT FILL, PROOF ROLL THE PROPOSED LIMITS OF THE EMBANKMENT IN ACCORDANCE WITH ITEM 204 PROOF ROLLING. WHERE PROOF ROLLING INDICATES AREAS OF UNSTABLE OR UNSUITABLE SOILS, THE CONTRACTOR SHAP UNDERCUT THE FOUNDATION MATERIAL PER THE DETAILS SHOWN ON THE TYPICAL SECTION AND REPLACE WITH SUITABLE MATERIAL. THE YORK-IS-INCIDENTAL-TO-ITEM-203 EMBANKMENT.

ITEM 611 - 36" CONDUIT, TYPE B, 707.19, AS PER PLAN

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NORFOLK SOUTHERN STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION. THIS WORK SHALL INCLUDE THE INSTALLATION OF ALUMINIZED STEEL TYPE 2 CORRUGATED PIPE USING THE OPEN CUT METHOD. THE ALUMINIZED STEEL TYPE 2 COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 274 OR ATSM A929. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M 36 OR ASTM A760 AND SHALL HAVE CORRUGATIONS OF 2-2/3 INCHES BY 1/2 INCHES WITH A GAGE THICKNESS STRUCTURALLY
DESIGNED FOR COOPER E-80 LOADING. COUPLING BANDS SHALL BE
MADE OF THE SAME BASE METAL HAVING A MINIMUM GAGE OF ONE
GAGE LESS THAN THE PIPE GAGE AND SHALL BE TWO (2) FEET WIDE.
THE ENDS OF THE PIPE SHALL BE ROLLED WITH ANNUALR
COPPLICATIONS FOR PROPER INDEXING. THE CONTRACTOR SHALL CORRUGATIONS FOR PROPER INDEXING. THE CONTRACTOR SHALL INSTALL AT LEAST THREE GALVANIZED OR STAINLESS STEEL INSTALL AT LEAST THREE GALVANIZED OF STAINLESS STEEL
FASTENERS PER COUPLING BAND. UNLESS OTHERWISE SUPERSEDED,
PRESCRIBED OR INDICATED BY THE NORFOLK SOUTHERN STANDARD
SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION OR HEREIN
THIS NOTE, THE OHIO DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS SPECIFICATION, ITEM 611 SHALL
APPLY, IN PARTICULAR BUT NOT LIMITED TO: SUBMITTALS WHICH INCLUDES: SHOP DRAWINGS (INCLUDING SEALED STRUCTURAL DESIGN INCLUDES: SHOP DRAWINGS (INCLUDING SEALED STRUCTURAL DESIGN CALCULATIONS TO INCLUDE BUT NOT LIMITED TO PIPE GAGE, EXTERNAL RIBS / STRUTS, TRENCH, BACKFILL, ETC.), INSTALLATION PLAN, CONSTRUCTION INSPECTION FORMS, AND PERFORMANCE REPORTS; AS WELL AS PERFORMANCE INSPECTIONS, CONDUIT EVALUATION, AND METHOD OF MEASUREMENT. THIS WORK SHALL ALSO INCLUDE THE REMOVAL OF SAID CONDUIT IN ACCORDANCE WITH ODOT ITEM 202 PIPE REMOVED FOR REUSE OR STORAGE. THE CONTRACTOR SHALL STORE THE REMOVED PIPE AT

TO PICKED UP AND HAULED OFF-SITE TO AN ODOT FACILITY TO A LOCATION TO BE DETERMINED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REMOVAL AND STORAGE OF THE PIPE. ALL COSTS ASSOCIATED WITH THE WORK PRESCRIBED IN THIS NOTE SHALL BE INCLUDED IN THE UNIT BID PRICE PER FOOT FOR ITEM 611 - 36" CONDUIT, TYPE B, 707.19 AS PER PLAN.

RAIL ITEM MISS: VIRACK REMOVED \ \ \

HE CONTRACTOR SHALL REMOVE THE TRACK AT THE DIRECTION OF THE NS SUPERVISOR. THE CONTRACTOR WILL BETAIN OWNERSHIP OF THE TRACK AND IS RESPONSIBLE FOR DISPOSAL. THE CONTRACTOR'S REMOVAL RESPONSIBILITES ARE 1) REMOVAL OF EXISTING TRACK 1 & 2 NCE REALIGNMENT ONTO THE SHOOFLY HAS OCCURED AND REMOVAL OF TEMPORARY TRACKS AFTER REALIGMENT TO HE PERMANENT ALIGNMENT OCCURS.

AAIL ITEM, MISC.: TRACK LINING AND GRADING

RACK LINING AND GRADING SHALL BE IN CONFORMANCE WITH S STANDARD SPECIFICATIONS FOR DESIGN AND **Z**ONSTRUCTION. WORK SHALL BE PERFORMED BY NSRR FORCES. ESTIMATED QUANTITY GIVEN FOR INFORMATION

RAIL ITEM, MISC.: TIE AND RAIL

ALL RAILWAY TIES WILL BE IN ACCORDANCE WITH THE NORFOLK SOUTHERN RAILWAY QUALITY ASSURANCE SPECIFICATIONS FOR TIES AND TIMBERS. WORK SHALL BE PERFORMED BY NSRR FORCES. ESTIMATED QUANTITY GIVEN FOR INFORMATION ONLY.

RAIL ITEM, MISC .: CUT AND THROW

TRACK CUT AND THROW SHALL BE IN CONFORMANCE WITH NS TANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION. NORK SHALL BE PERFORMED BY NSRR FORCES. ESTIMATED DUANTITY GIVEN FOR INFORMATION ONLY.

I<mark>TEM 203 - EMBANKMENT, AS PER PLAN</mark>

ÀMBANKMENT SHALL BE IN CONFORMANCE WITH NS STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION. IF BENCHING OF SLOPES CARRYING RAILROAD LIVE LOAD IS REQUIRED, THE HEIGHT SHALL NOT EXCEED 2'-O". FILL QUANTITIES DUE TO PENCHING ARE NOT INCLUDED IN THE VALUES TABULATED HEREIN. F BENCHING IS REQUIRED. THE QUANTITY AND COST OF PLACING FILL IN THE BENCHED EXCAVATION IS TO BE CONSIDERED INCIDENTAL TO THIS ITEM. ITEM 204 SUBGRADE COMPACTION, APP AND ITEM 204 - PROOF ROLLING, APP ARE CONSIDERED INCIDENTAL TO THIS ITEM.

PLACEMENT OF GRANULAR FILL BETWEEN THE TIED SHORING WALLS AT THE TEMPORARY BRIDGE ARE INCLUDED FOR PAYMENT WITH THE TEMPORARY BRIDGE QUANTITIES.

STAGED CONSTRUCTION

THESE PLANS SHOW STAGED TRACK WORK/CONSTRUCTION. CONTRACTOR SHALL INTEGRATE, STAGE, AND COORDINATE
ALL WORK WITH ADJACENT BRIDGE AND ROADWAY PROJECTS
AS NECESSARY. SEE THE BRIDGE PLANS FOR PHASED
CONSTRUCTION NOTES RELATED TO THE RAILROAD STRUCTURES AND THE ROADWAY'S MAINTENANCE OF TRAFFIC PLANS FOR PHASING NOTES RELATED TO THE CONSTRUCTION OF US 36 AND SR 37. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE CONSTRUCTION FROM THE TOP OF SUB BALLAST DOWN PRIOR TO NS RAILROAD FORCES SCHEDULING THE TRACK WORK.

NSRR RAILROAD FORCES

NSRR WILL PROVIDE AND INSTALL ALL MATERIALS ABOVE SUBBALLAST FOR BOTH TRACKS IN PHASE 1 AND PHASE 2. THE NS TEMPORARY TRACKWORK MATERIALS FROM PHASE 1 SHALL BECOME THE PROPERTY OF THE CITY OF DELAWARE AFTER SHIFTING TRAIN TRAFFIC TO THE FINAL ALIGINMENT POSTION IN PHASE 2.

THE ESTIMATED QUANTITIES FOR NORFOLK SOUTHERN FORCES ARE PROVIDED FOR INFORMATION ONLY.

ITEM SPECIAL - RAIL ITEM, MISC.: BALLAST OVER BRIDGE WATERPROOFING

THE CONTRACTOR SHALL SUPPLY AND PLACE AN INITIAL 6 INCHES OF BALLAST ATOP THE COMPLETED BRIDGE WATERPROOFING AT THE DIRECTION OF THE NS SUPERVISOR. THE BALLAST SHALL BE FROM A NS PREFERRED VENDOR (A LIST OF VENDORS IS AVAILABLE UPON REQUEST FROM NS). PAYMENT FOR THIS ITEM FOR THE AMOUNT OF BALLAST SUPPLIED AND PLACED ATOP THE BRIDGE PER NS

ITEM SPECIAL - RAIL ITEM, MISC .: BALLAST OVER BRIDGE 107 CY **WATERPROOFING**

LOCA	TION AS	S DIREC	TED BY	THE EI	NGINEER	FOR C	DOT	7	US 36 AND S	R 37 RA	4 <i>ILROAL</i>	O GENERAL SUMMARY	
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475	476	482	491 - 493	518	521 - 523	543	546 - 550	600	11EW	TOTAL	UNII	DESCRIPTION	NO.
												CONTRACTOR FORCES	
							2		202	2	EACH	HEADWALL REMOVED	
							850		202	850	FT	PIPE REMOVED, 24" AND UNDER	
							395		202	395	FT	PIPE REMOVED, OVER 24"	
							2		202	2	EACH	CATCH BASIN REMOVED	
							1		202	1	EACH	MANHOLE REMOVED	
						1265		69946	203	71211	CY	EXCAVATION, AS PER PLAN	476
						54937		3785	203	58722	CY	EMBANKMENT, AS PER PLAN	476
				4	4				601	8	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER	
				2	2				602	4		CONCRETE MASONRY	
			850						611	850	FT	8" CONDUIT, TYPE E, PERFORATED	
				100	295				611	395	FT	36" CONDUIT, TYPE B, 707.1% AS PER PLAN	476
				1	1				611	2	EACH	CATCH BASIN, NO. 4A	
					1				611	1	EACH	MANHOLE, NO. 3	
4									659	4	EACH	SOIL ANALYSIS TEST	
4960									659	4960		TOPSOIL	
14634									659	44634	SY	SEEDING AND MULCHING	
2231									659	2231		REPAIR SEEDING AND MULCHING	
2231									659	2231	SY	INTER-SEEDING	
6									659	6.22		COMMERCIAL FERTILIZER	
9									659	9.22	ACRES	LIME	
367									659	367	MGAL	WATER	
201									659	201		MOWING	
	520								SPECIAL	520	DAY	RAIL ITEM, MISC.: RAILROAD FLAGGING	476
									SPECIAL			RAIL ITEM, MISC.: SURVEY AND LAYOUT FOR TRACKWORK ALIGNMENT AND PROFILE	475
	107								SPECIAL			RAIL ITEM, MISC.: BALLAST OVER BRIDGE WATERPROOFING	476
						3179		2358	SPECIAL			RAIL ITEM, MISC.: SUB-BALLAST - 12" DEPTH	475
		9030				1			SPECIAL			RAIL ITEM, MISC.: TRACK REMOVED	476
		1							2. 201/12	1110		The state of the s	
												NORFOLK SOUTHERN RAILROAD FORCES	
												(FOR INFORMATION ONLY)	
												WON IN ONMATION ONE!	
						5793		5615	SPECIAL	11408	CY	RAIL ITEM, MISC.: BALLAST	476
		5370				0700		0010	SPECIAL			RAIL ITEM, MISC.: TRACK LINING AND GRADING	476
		9030							SPECIAL			RAIL ITEM, MISC.: TIE AND RAIL	476
		8							SPECIAL			RAIL ITEM, MISC.: TRACK CUT AND THROW	476

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE NET TAKE = GROSS TAKE - PRO IN TAKE

ALL AREAS IN ACRES

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE SHOWN.

ARCEL	OWNED	SHEET	- WINE 113	RECORD	AUDITOF	RECORD	TOTAL	GROSS	P.R.O. IN	NET	STRUC-	N	ESIDUE	TYPE	DEMARKS	AS AC	~~:IIED
NO.	OWNER	NO.	O.R.	PAGE	PARCEL Number	AREA	P.R.O.	TAKE	TAKE	TAKE	TURE	LEFT	RIGHT	FUND	REMARKS	воок	PAGE
1-WDV	C-N & L, INCORPORATED	17-24	D.B. 553	98	51944302001000	29.330	1.496	1.647	1.457	0.190			27.644		7 - 0.013 AC.		
		47.40							2 2 2 2	0.044							
11-T		17-18						0.011	0.000	0.011					TO COMPLETE GRADING		
12-T1	LUCKY 13 PROPERTIES, LLC,	17-18	1529	757	51944302008000	1.000	0.237	0.010	0.000	0.010					TO COMPLETE GRADING, * PRIVATE SIGN TBR	+	
12 11	AN OHIO LIMITED LIABILITY COMPANY	11 10	1544	1426	51944302003000	0.240	0.069	0.010	0.000	0.010					TO COMPLETE GRADING, * TRIVATE SIGN TOR		
12-T2	AN ONIO EIMITED EIADIEITT COM ANT	17-18	1044	1120	51944302007000	2.530	0.146	0.017	0.000	0.017					TO CONST. DRIVE AND COMPLETE GRADING, M 0.010 AC.		
13-T	EDWARD J. AMBROSE AND	17-18	D.B. 572	147	51944210016000	0.920	0.104	0.003	0.000	0.003	1				TO COMPLETE GRADING:	1	
,, ,	KAREN L. AMBROSE	11 10	1805	966	010 1 12 10 0 10 0 0 0	0.020	0.707	0.000	0.000	0.000					70 COMPLETE ONNEMO,		
14-WDV	AUTHENTIC FOODS, LLC,	17-18	987	471	51944301002000	1.010	0.000	0.026	0.000	0.026		0.984			UU - 0.009 AC.		
	A LIMITED LIABILITY COMPANY														*4 BOULDERS & *4 SMALL CONC. PADS TBR		
14-T		17-18					0.000	0.006	0.000	0.006					TO CONST. DRIVE AND COMPLETE GRADING, UU - 0.004 AC.		
															<u> </u>		
15-WDV	AVAK SUNBURY. LLC,	19-20	1528	2728	51944302002000	1.710	0.000	0.090	0.000	0.090			1.620		□ - 0.003 AC., □ - 0.001 AC., AND □ - 0.003 AC		
	AN OHIO LIMITED LIABILITY COMPANY														SIGN, 2 SHRUBS & LANDSCAPING TBR		
16-WDV	LED INVESTMENTS LLC,	17-22	787	1261	51944301001000	0.860	0.000	0.017	0.000	0.017		0.843			UU - 0.015 AC.		
	AN OHIO LIMITED LIABILITY COMPANY		1821	1439													
17-T1	OAKLAND NURSERY, INC.,	21-22	620	969	51944402007000	0.650	0.234	0.013	0.000	0.013					TO CONST. DRIVE AND COMPLETE GRADING, AAA - 0.001 AC.		
	A OHIO CORPORATION														* 8 SPRINKLER HEADS & *6 CONC. LAWN ORNAMENTS TBR		
17-T2		23-24	620	969	51944402008000	1.160	0.372	0.051	0.000	0.051					TO CONST. DRIVE AND COMPLETE GRADING		
					51944402007000	0.650	0.234	0.001	0.000	0.001					*8 SHRUBS, *5 PRIVATE SIGNS & *2 EVERGREENS TBR	1	
	TOTAL					1.810	0.606	0.052	0.000	0.052					*3 CONC. PLANTERS TBR. SEE NOTE "B"		
															CCC - 0.011 AC.		
17-T3		27-28	D.B. 548	356	51944402011000	2.310	0.689	0.030	0.000	0.030					TO CONSTRUCT DRIVES AND COMPLETE GRADING		
	7.7.1		1618	1578	51944402012000	0.860	0.175	0.017	0.000	0.017							
17 74	TOTAL	00.70	1010	15.70	510 44400010000	3.170	0.864	0.047	0.000	0.047					TO CONCEDUAT DRIVES AND COMPLETE OR LOWE		
17-T4		29-30	1618	1578	51944402012000	0.860	0.175	0.010	0.000	0.010					TO CONSTRUCT DRIVES AND COMPLETE GRADING		
10. 7	CHARLES COO. 11.0	07.04	000	0007	E10.4.4.0.7.0.10.0.0.0	7.000	0.000	0.000	0.000	0.000					TO CONCERNOT DRIVE AND COMPLETE OR ARMO		
18-T	SUNBURY 680, LLC,	23-24	929	2023	51944403010000	3.980	0.222	0.080	0.000	0.080					TO CONSTRUCT DRIVE AND COMPLETE GRADING		
10 T	AN OHIO LIMITED LIABILITY COMPANY	07.00	10.07	1710	5104440700001	2.072	0.0000	0.100	0.000	0.100					1 TREE TBR		
19-T	HYE RYEE PROPERTY, LLC, AN OHIO	23-26	1867	1312	51944403009001	2.832	0.0002	0.120	0.000	0.120					TO CONSTRUCT DRIVES AND COMPLETE GRADING		
	LIMITED LIABILITY COMPANY AND CHONG														Z - 0.120 AC. & AA - 0.003 AC.		
	RYEE PROPERTY, LLC AN OHIO LIMITED																
20	LIABILITY COMPANY	25-26	1620	500	51944404004002	1.485											
20	DELAWARE REAL ESTATE HOLDINGS, LLC, AN OHIO LIMITED LIABILITY COMPANY	25-26	1620	589	51944404004002	1.485		-									
21-WDV	FRISCH ENTERPRISES, INC.,	25-28	107	749	51944401005000	0.866	0.000	0.028	0.000	0.028					AJ - 0.028 AC., AL - 1.12 SQ. FT.	1	
21-WUV	AN OHIO CORPORATION	25-20	107	149	51944401005000	0.447	0.000	0.020	0.000	0.000					MJ - 0.020 AC., AL - 1.12 SQ. FT.	1	
	TOTAL				31344401000001	1.313	0.000	0.028	0.000	0.028	 		1.285			1	
21-T	TOTAL	25-28				0.866	0.000	0.020	0.000	0.025			1.200		TO RECONST. CURB AND COMPLETE GRADING, AL - 0.006 AC.		
21 1		23 20				0.000	0.000	0.000	0.000	0.000	1				AI - 0.021 AC. & AJ - 0.058 AC.		
22-WDV	LESLIE DANIEL PROPERTIES LLC,	31-32	1599	1578	51944216008000	0.287	0.000	0.010	0.000	0.010		0.277			BOULDER & 2 TREES TBR		
22 1101	AN OHIO CORPORATION	31 32	1000	1010	313 1 12 100 000 00	0.201	0.000	0.070	0.000	0.010		0.277			BOOLDEN & 2 MILES TON		
22-T	ANT ONLY COM CHANGE	31-32					0.000	0.012	0.000	0.012					TO COMPLETE GRADING		
		0, 02					0.000	3,0,2	0.000	0.012					TO COMMITTEE ON MAINTE		
23-WDV	LISA CROSS AND JAMES E. CROSS	31-32	644	2402	51944216009000	0.286	0.000	0.010	0.000	0.010							
					51944216010000	0.499	0.000	0.017	0.000	0.017					BOULDER WITH ADDRESS TBR		
	TOTAL					0.785	0.000	0.027	0.000	0.027		0.758					
23-T		31-32			51944216009000	0.286	0.000	0.011	0.000	0.011					TO CONSTRUCT DRIVE AND COMPLETE GRADING		
		-			51944216010000	0.499	0.000	0.022	0.000	0.022		-		-	16 FOOT WOODEN BOARD FENCE TBR		-
	TOTAL					0.785	0.000	0.033	0.000	0.033							
24-WDV	ROGER WEARS AND LISA R. WEARS	31-32	642	777	51944216012000	0.372	0.000	0.013	0.000	0.013		0.359			3 TREES TBR	ļl	
24-T		31-32					0.000	0.016	0.000	0.016					TO CONSTRUCT DRIVE AND COMPLETE GRADING	ļ	
			.=														
25-WDV	STEPHANIE M. STROMBERG	31-32	1325	2239	51944216013000	0.334	0.000	0.011	0.000	0.011		0.323					
05.7		71 70					0.000	1	0.000	0.010					TO CONCEDUOT DRIVE IND COURSETS OF COMM	1	
25-T		31-32					0.000	0.016	0.000	0.016					TO CONSTRUCT DRIVE AND COMPLETE GRADING BLM 8/10/21 UPDATED PARCEL 19 OW		
															ESCRIPTIONS BLM 8/10/21 UPDATED PARCEL 19 OW		

WD = WARRANTY DEED
SH = STANDARD HIGHWAY EASEMENT
T = TEMPORARY EASEMENT
V = ACQUIRED IN THE NAME OF THE CITY OF DELAWARE

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BE OF 36 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY

UNLESS NOTED OTHERWISE.

EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR

△ 3 TREES, *30 TREES, *2 EVERGREENS & *2 PRIVATE SIGNS TO BE REMOVED (TBR)

*LANDSCAPE AREA, *6 TREES, *1 STUMP, *1 ROCK TBR

ADDITION TO WHAT HAS BEEN CALLED OUT IN THE REMARKS COLUMN FOR PARCEL IT, BUT THESE ADDITIONAL ITEMS WILL BE PERMITTED AND ALLOWED BY THE CITY OF DELAWARE. SAID PERMIT IS IN PROGRESS. THE ITEMS ENCOMPASSED BY THIS PERMIT ARE NOTED ON PAGES 23, 25 & 27.

UC	T DRIVE AN	D COMPLE	TE GRADING		
S	BLM	8/10/21	UPDATED PARCEL 19 OW	NERSHIP	
0	BLM	6/3/21	ADDED TEMPORARY EASE	EMENT OVE	RLAPS
	BRK	4/06/21	UPDATED PARCEL 12 DEE	D REFEREN	CE
	BRK	4/06/21	UPDATED PARCEL 13 DEE	D REFEREN	CE
	BRK	4/06/21	UPDATED PARCEL 16 OW	NERSHIP	
	REV. BY	DATE	DESCRI	PTION	
	FIELD RE	VIEW BY B	RANDON KING	DATE: 11/	10/2020
	OWNERSH	IP VERIFI	ED BY BRANDON KING	DATE: 11/	6/2020

DATE COMPLETED: 11/11/2020

NOTE "B": THERE ARE OTHER LANDSCAPE ENCROACHMENTS IN

609 644

(004)