LOCATION MAP

LATITUDE: 40°47'33" LONGITUDE: 81°26'46"

	SCALE IN MIL	.ES		
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1	2	3	4	



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PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION	S.R. 172 W (W OF PERRY)	S.R. 172 W (E OF PERRY)	PERRY DR NW	PERRY DR SW
CURRENT ADT (2022)	. 15,000	16,800	9,650	10,200
DESIGN YEAR ADT (2042)	15,000	16,800	9,650	10,200
DESIGN HOURLY VOLUME (2042)	. 1,800	1,680	965	1020
DIRECTIONAL DISTRIBUTION	0.55	0.55	0.53	0.53
TRUCKS (24 HOUR B&C)	0.04	0.03 -	0.03	0.04
DESIGN SPEED	_ 4 5	45	40	40
LEGAL SPEED	40	40	35	35
DESIGN FUNCTIONAL CLASSIFICATION:	PRINCIPAL	PRINCIPAL	MINOR	MINOR
	ARTERIAL (URBAN)	ARTERIAL (URBAN)	ARTERIAL (URBAN)	ARTERIAL (URBAN)

STATE OF OHIO

DEPARTMENT OF TRANSPORTATION

STA-172-10.86

PERRY TOWNSHIP STARK COUNTY

INDEX OF SHEETS:

TITLE SHEET SCHEMATIC PLAN TYPICAL SECTIONS GENERAL NOTES MAINTENANCE OF TRAFFIC GENERAL SUMMARY SUBSUMMARIES PROJECT SITE PLAN PLAN AND PROFILES S.R. 172 PERRY DR CROSS SECTIONS S.R. 172 PERRY DR INTERSECTION DETAILS DRIVE DETAILS WATER WORKS PAVEMENT MARKING & SIGNING TRAFFIC CONTROL ELEVATION VIEWS	1 2 3-5 6-9,9A 10-29 30-33 34-35 36 37-40 41-42 43-55 56-62 63-68 69-71 72-79 80-88 89-90
	00 00

Revised Dates and

SUPPLEMENTAL

PROJECT DESCRIPTION

INTERSECTION IMPROVEMENT OF S.R. 172 AT PERRY DRIVE BY ADDING A WESTBOUND RIGHT TURN LANE ON S.R. 172, AN EASTBOUND RIGHT TURN SLIP LINE ON S.R. 172, AND A NORTHBOUND RIGHT TURN LANE ON PERRY DRIVE. WORK INCLUDES SIGNAL REPLACEMENT, MINOR CROSS WALK AND DRAINAGE UPGRADES, AND WATERLINE REPLACEMENT.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.1 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.4 ACRES NOTICE OF INTENT EARTH DISTURBED AREA:

MAINTENANCE OF TRAFFIC

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 14, 17, AND 25, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

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.

names of SCD.

SPECIAL



PLAN PREPARED BY: | Environmental **Design**Group

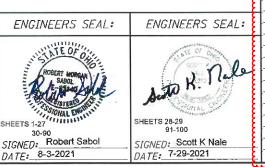
NHS PROJECT __

None Required

DESIGN EXCEPTIONS

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			STANDAR	D CONSTR	UCTION D	RAWINGS				SPECIFICATIO	
BP-3.1	1/17/20	DM-1.1	7/17/20	HL-30.11	1/15/21	TC-16.22	7/16/21	TC-81.22	7/17/20	800-2019 10/15/	/21
BP-4.1	7/19/13	DM-1.2	7/16/21	HL-30.22	1/15/21	TC-17.11	7/16/21	TC-82.10	7/19/19	809 7/16,	/21
BP-5.1	7/16/21	DM-1.3	7/18/14			TC-21.11	7/16/21	TC-83.10	1/17/20	825 1/17/	′20
BP-7.1	7/17/20	DM-3.1	1/18/13	MT-95.31	7/19/19	TC-21.21	7/16/21	TC-83.20	7/21/17	831 10/21.	/16
		DM-4.4	1/15/16	MT-95.32	4/19/19	TC-22.20	1/17/14	TC-84.20	10/18/13		/18
CB-2-2ABC	7/16/21			MT-95.60	4/19/19	TC-41.20	10/18/13	TC-85.10	4/17/20		/14
CB-3	7/16/21	MH-1	7/16/21	MT-97.10	4/19/19	TC-41.30	10/18/13	TC-85.20	7/20/18	907 10/18.	/19
CB-3A	7/16/21	MH-3	7/16/21	MT-97.12	1/20/17	TC-41.40	10/18/13			909 7/16,	/21
				MT-101.90	7/17/20	TC-41.41	7/19/19			916 10/16/	′20
		RM-3.1	7/20/18	MT-105.10	1/17/20	TC-42.20	10/18/13			931 1/17/	/20
						TC-52.10	10/18/13			995 7/17.	/15
						TC-52.20	1/15/21				
						TC-65.10	1/17/14				
						TC-65.11	7/21/17				
						TC-71.10	7/16/21				

_ DISTRICT DEPUTY DIRECTOR

APPROVED. DIRECTOR, DEPARTMENT OF TRANSPORTATION

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NONE

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ROUNDING

GENERAL

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

UTILITIES

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

AEP700 MORRISON RD GAHANNA, OH 44230 ATTN: PAUL PAXTON PH: 614-949-8883

CHARTER COMMUNICATIONS 5520 WHIPPLE AVE NW NORTH CANTON, OH 44720 ATTN: RON ICKES PH: 330-631-7485

AT&T - OSP ENGINEERING 50 W BOWERY ST. 6TH FLOOR AKRON, OH 44308 ATTN: STEVEN HYLTON PH: 330-631-7485

DOMINION ENERGY OHIO 320 SPRINGSIDE DR. STE 320 AKRON, OH 44333 ATTN: DOUGLAS SMITH PH: 330-664-2529

STARK COUNTY METRO SEWER DISTRICT P.O. BOX 9972 CANTON, OH 44711 ATTN: TOM DAVIS PH: 330-451-2303

CITY OF CANTON WATER 2664 HARRISBURG RD NE CANTON, OH 44705 ATTN: JAMES BENEKOS, P.E., P.S. PH: 330-438-6557

ODOT ELECTRICAL 2088 S. ARLINGTON RD AKRON, OH 44306 ATTN: MICHELLE CHANEY PH: 330-786-2267

EVERSTREAM SOLUTIONS 1228 EUCLID AVE SUITE 250 CLEVELAND, OH 44115 ATTN: GIO REILLO 216-905-0780

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

THE UNDERGROUND UTILITIES ON THIS PLAN HAVE BEEN LOCATED BY USING A SUBSURFACE UTILITY ENGINEERING COMPANY [SUE]. IF THERE ARE ANY DISCREPANCIES BETWEEN FIELD MARKINGS AND WHAT THE PLAN INDICATES, PLEASE CONTACT MATTHEW STEELE, DISTRICT UTILITY COORDINATOR 330-786-4832, PRIOR TO ANY SUBSURFACE WORK BEING INITIATED.

AT&T UTILITY COORDINATION

BASED ON RECORD DRAWINGS THERE ARE NO ANTICIPATED CONFLICTS WITH EXISTING AT&T DUCT BANKS AT PROPOSED STORM SEWER AND WATER LINE CROSSINGS. HOWEVER, A POTENTIAL CONFLICT MAY EXIST NEAR STA 579+36, LT. SEE SHEET 53 FOR DETAILS, THE CONTRACTOR SHALL CONTACT AT&T AT LEAST 48 HOURS BEFORE BEGINNING ANY EXCAVATION AT AT&T DUCT BANK CROSSINGS TO ALLOW AT&T TO HAVE AN INSPECTOR PRESENT DURING EXCAVATION AND INSTALLATION OF THE PROPOSED ITEMS AT THESE CROSSINGS.

DOMINION ENERGY OHIO UTILITY COORDINATION

THE RELOCATION OF THE EXISTING 8" STEEL GAS LINE ON THE SOUTH SIDE OF S.R. 172 WILL BE COMPLETED BY DOMINION ENERGY OHIO PRIOR TO CONSTRUCTION.

THE RELOCATION WORK FOR THE EXISTING 20" GAS LINE ON THE NORTH LEG OF PERRY DRIVE WILL BE COMPLETED BY DOMINION ENERGY OHIO PRIOR TO CONSTRUCTION.

WORK LIMITS

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

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 8 P.M. AND 8 A.M. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS

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

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE (NORTH) COMBINED SCALE FACTOR: 0.99990498 ORIGIN OF COORDINATE SYSTEM: 0,0

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

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

EXISTING PLANS

THE FOLLOWING EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT 4 OFFICE AT 2088 S ARLINGTON RD. AKRON. OH 44306

STA-172-10.86, 1924 STA-172-14.210, PID 16520, 1999 STA-172-10.43, PID 86510, 2012 STA-MCRO-FY2018(A). PID 100870. 2018

CONSTRUCTION COORDINATION WITH UTILITY WORK

NO COMPENSABLE DELAYS WILL BE CONSIDERED DUE TO UTILITY RELOCATION INTERFERENCE. TO AVOID CONSTRUCTION DELAY DUE TO UTILITY CONSTRUCTION/RELOCATION, THE CONTRACTOR SHALL WORK IN AN AREA NOT AFFECTED BY ONGOING UTILITY WORK, AS APPROVED BY THE ENGINEER.

ROADWAY

CLEARING AND GRUBBING

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

UNSTABLE OR UNSUITABLE SOILS FOR PAVEMENT STABILIZATION

THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO ADDRESS UNSTABLE OR UNSUITABLE SOILS ENCOUNTERED IN THE AREAS OF PAVEMENT CONSTRUCTION:

ITEM 204 - EXCAVATION OF SUBGRADE 41 CY ITEM 204 - GRANULAR MATERIAL, TYPE B 41 CY ITEM 204 - GEOTEXTILE FABRIC 122 SY

CURB RAMPS / DETECTABLE WARNINGS

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

ITEM 202 - REMOVAL, MISC .: BENCH

REMOVE EXISTING BENCH FOR SALVAGE BY SARTA. AFTER REMOVAL, CONTACT THE BELOW TO NOTIFY THE STORAGE LOCATION:

SARTA: ALBERT HOGAN TRANSPORTATION ROUTE COORDINATOR PH: 800-379-3661 EMAIL: AHOGAN@SARTAONLINE.COM

IF SARTA DOES NOT WANT TO SALVAGE THE BENCH, DISPOSE OF MATERIALS AS SPECIFIED IN SECTION 105.17 OF THE CMS AT NO ADDITIONAL COST.

ALL EQUIPMENT, LABOR, TOOLS, MATERIALS, SUBMITTALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM SHALL BE INCLUDED IN THE UNIT BID PRICE PER EACH FOR ITEM 202 -REMOVAL, MISC.: BENCH.

ITEM 204 - PROOF ROLLING

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

ITEM 204 - PROOF ROLLING

2 HOURS

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL

A) LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.

B) PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.

C) PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEERING COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL

A) LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.

B) LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDED IN THE PLAN.

C) PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

EROSION CONTROL

SEEDING AND MULCHING

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

653, TOPSOIL, FURNISHED AND PLACED 86 CU. YD. 659, REPAIR SEEDING AND MULCHING 39 SQ. YD. 659, COMMERCIAL FERTILIZER 0.11 TON 659, LIME 0.16 ACRE 659. WATER 5 M. GAL.

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



EROSION CONTROL (CONT.)

POST CONSTRUCTION STORM WATER TREATMENT

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

MANUFACTURED WATER QUALITY STRUCTURE

THIS PLAN UTILIZES MANUFACTURED WATER QUALITY
STRUCTURES FOR WATER QUALITY TREATMENT. AREAS HAVE
BEEN SHOWN IN THE PLANS FOR PLACEMENT OF AN OFF-LINE
SYSTEM. PAYMENT FOR THESE DEVICES SHALL BE MADE AT THE
CONTRACT UNIT PRICE PER EACH FOR ITEM 895, MANUFACTURED
WATER QUALITY STRUCTURE, TYPE 1.

DRAINAGE

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CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

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

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

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

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

EXISTING SUBSURFACE DRAINAGE

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

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 ABOVE:

611, 4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET 50 FT. 605, 4" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC 100 FT.

UNDERDRAINS FOR PULLBOXES

REFERENCE IS MADE TO STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 40 FEET. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS. THE LOCATION, TYPE (CONDUIT OR SWALE), SIZE AND GRADE OF THE DRAINAGE DISCHARGE CONTINUANCE WILL BE AGREED TO BY THE ENGINEER

FURNISH AN INSPECTION WELL AT THE RIGHT OF WAY LINE IN ACCORDANCE WITH SCD DM-3.1 FOR EACH DRAINAGE DISCHARGE THAT OUTLETS THROUGH A CURB OPENING, OR INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST IS INCLUDED IN ITEM 611, INSPECTION WELL.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND THE SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

FURNISH AN EROSION CONTROL PAD AS SHOWN IN SCD DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST FOR THE EROSION CONTROL PAD IS INCLUDED IN ITEM 611, CONDUIT, MISC: TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED HOLE OR A CURB SECTION WITH A HOLE WHEN OUTLETTING A CONDUIT THROUGH A CURB OPENING. THE COST OF DRILLING, OR FURNISHING THE CURB SECTION WITH HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

FURNISH A DRILLED CORE HOLE WHEN OUTLETTING INTO A STORM SEWER OR DRAINAGE STRUCTURE. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE.

DOCUMENTATION

THE CONTRACTOR SHALL FURNISH WRITTEN DOCUMENTATION TO THE ENGINEER AND TO THE DISTRICT R/W PERMIT OFFICE. THE DOCUMENTATION INCLUDES THE CONSTRUCTION PROJECT NUMBER, PID, COUNTY, ROUTE, SECTION, LATITUDE AND LONGITUDE OF THE DRAINAGE DISCHARGE AT THE R/W, THE NAME OF PROPERTY OWNER WITH ADDRESS, THE DATE THE DRAINAGE DISCHARGE WAS LOCATED, THE DATE THE DRAINAGE DISCHARGE CONTINUANCE WAS FURNISHED, A DETAILED DESCRIPTION OF THE WORK AND PICTURES OF THE DRAINAGE DISCHARGE CONTINUANCE (IN PDF OR JPEG FORMAT). THE DOCUMENTATION IS INCLUDED IN ITEM 611, CONDUIT, MISC.: TYPE _ FOR DRAINAGE DISCHARGE CONTINUANCE OR ITEM 203, EMBANKMENT AS PER PLAN.

DRAINAGE DISCHARGE CONTINUANCE REMOVAL
THE ENGINEER MAY REQUIRE THE NEWLY INSTALLED DRAINAGE
DISCHARGE CONTINUANCE TO BE REMOVED.

REMOVE THE NEWLY INSTALLED CONDUIT AND ANY EXISTING CONDUIT TO THE RIGHT OF WAY LINE. FOR CONDUIT THAT OUTLETS THROUGH THE CURB RESTORE THE CURB BY FILLING THE HOLE WITH CLASS QC I CONCRETE OR REPLACE THE CURB SECTION. FOR CONDUIT THAT OUTLETS TO A STORM SEWER OR DRAINAGE STRUCTURE LEAVE 6 INCHES PROTRUDING OUTSIDE OF THE CONDUIT. PLUG THE PROTRUDING CONDUIT WITH EITHER A MANUFACTURED CAP OR CLASS QC I CONCRETE. FOR CONDUIT THAT OUTLETS TO THE DITCH REMOVE THE EROSION CONTROL PAD. RESTORE ALL AREAS AS REQUIRED. PLUG THE EXISTING CONDUIT REGARDLESS OF SIZE AT THE RIGHT OF WAY LINE WITH CLASS QC I CONCRETE AND RESTORE ALL AREAS AS REQUIRED. ALL COSTS ARE INCLUDED IN ITEM 202, REMOVAL MISC. CONDUIT.

DAM THE SWALE THAT OUTLETS TO THE DITCH AT THE R/W AS DIRECTED BY THE ENGINEER. ALL COSTS ARE INCLUDED IN ITEM 203, EMBANKMENT AS PER PLAN.

REMOVE THE INSPECTION WELL AND RESTORE ALL AREAS AS REQUIRED. THE COST IS INCLUDED IN ITEM 202, REMOVAL MISC. INSPECTION WELL.

CONDUIT MATERIAL TYPES

THE FOLLOWING CONDUIT MATERIAL TYPES MAY BE USED: 707.33, 707.41 NON-PERFORATED, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, AND 707.52 SDR35.

PAY ITEMS

EACH OF THE PAY ITEMS LISTED BELOW FOR CONDUIT
MISCELLANEOUS TYPES B, C, E AND F FOR DRAINAGE
DISCHARGE CONTINUANCE INCLUDE CONDUIT SIZES 2 INCH TO
10 INCH. THERE IS NO COST DIFFERENTIATION FOR SIZE IN
THESE PAY ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM 611, INSPECTION WELL 3 EACH ITEM 611, CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE 50 FT ITEM 611, CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE 50 FT. ITEM 611, CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE 50 FT. ITEM 611, CONDUIT, MISC TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE 50 FT. ITEM 202, REMOVAL, MISC .: CONDUIT 50 FT. ITEM 202, REMOVAL, MISC .: INSPECTION WELL 3 EACH ITEM 203, EMBANKMENT, AS PER PLAN 10 CY

ITEM 611 - CATCH BASIN NO. 3A, AS PER PLAN ITEM 611 - CATCH BASIN NO. 3, AS PER PLAN

ALL PROVISIONS OF ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWINGS CB-2.1 AND CB-2.2 APPLY WITH THE ADDITION THAT THE CASTING SHALL BE FABRICATED TO ACCOMMODATE A 4" CURB HEIGHT.

ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE THE CASTING) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

ITEM 611 - CATCH BASIN NO. 2-2C, AS PER PLAN

ALL PROVISIONS OF ITEM 611 AND ODOT STANDARD CONSTRUCTION DRAWINGS CB-2.1 AND CB-2.2 APPLY WITH THE ADDITION THAT THE GRATE SHALL BE BICYCLE SAFE. FURNISH NEENAH NO. R-4859-S OR EJ. NO. 5110M3 (00511043) GRATES OR APPROVED EQUALS.

ITEM 611 - SLOTTED DRAIN, TYPE 1, 8"

THIS ITEM SHALL CONSIST OF 8 INCH DIAMETER SLOTTED DRAIN ALUMINUM COATED STEEL CONDUIT 707.01 WITH 8 INCH TRAPEZOIDAL GALVANIZED SOLID BAR GRATE AS APPROVED BY THE ENGINEER. ALL COSTS FOR LABOR AND MATERIALS, INCLUDING TYPE 2 BEDDING, AND BACKFILLING AS DETAILED ON STANDARD CONSTRUCTION DRAWING DM-1.3 SHALL BE INCLUDED IN THE PRICE BID PER FOOT FOR ITEM 611 - SLOTTED DRAIN, TYPE 1, 8".

ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

SANITARY SEWER

SANITARY SEWER MANHOLE ACCESS

SANITARY SEWER MANHOLES SHALL NOT BE BURIED OR PAVED OVER. ACCESS TO SANITARY MANHOLES SHALL NOT BE IMPEDED AT ANY TIME.

ITEM 611 - MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)

THIS ITEM SHALL CONSIST OF ADJUSTING SANITARY MANHOLES
TO GRADE PER ITEM 611 WITH THE FOLLOWING MODIFICATIONS:

SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STARK COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS IN EFFECT AT THE TIME OF CONSTRUCTION. DETAILS PROVIDED WITHIN THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY CURRENT EDITIONS OF DETAILS AT TIME OF CONSTRUCTION.

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES AND STARK COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE THE CASTING) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1 AND STARK COUNTY DETAILS) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

CONTRACTOR SHALL SCHEDULE INSPECTION BY STARK COUNTY SANITARY ENGINEERING DEPARTMENT FOR THE ADJUSTMENTS TO GRADE BY TELEPHONE AT 330-451-2304 AT LEAST 72 HOURS IN ADVANCE OF THE WORK BEING PERFORMED.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.



DESCRIPTION:

THIS WORK CONSISTS OF PLACEMENT OF A SELF ADHESIVE GLASS FIBER MESH OVER SAW CUT JOINTS WHERE THERE IS ASPHALT PAVEMENT ON BOTH SIDES OF THE JOINT. THE MESH SHALL BE PLACED PRIOR TO PLACEMENT OF THE FINAL ASPHALT CONCRETE.

FURNISH GLASGRID FIBERGLASS REINFORCEMENT WITH MODIFIED POLYMER COATING AND PRESSURE-SENSITIVE ADHESIVE BACKING BONDED TO A NONWOVEN POLYPROPYLENE MEETING THE FOLLOWING PROPERTIES:

PROPERTIES	Glasgrid CG100
MATERIAL WIDTH	2.5 FT
MATERIAL - SELF ADHESIVE	25% MINIMUM DRY PICKUP
FIBERGLASS STRAND COATED WITH	
ELASTOMERIC POLYMER ASTM	
D4595	
TENSILE STRENGTH ASTM D4595	655 x 655 ± 85 LBS/IN
TENSILE ELONGATION ASTM D4595	2.5 ± 0.5%
MELTING POINT ASTM D276	>450°F
MASS/UNIT AREA ASTM D5261-92	16 OZ/SQ YD
GRID PATTERN	1.0 IN × 1.0 IN

BEFORE INSTALLATION SUBMIT A LETTER TO THE PROJECT ENGINEER WITH A STATEMENT CERTIFYING MATERIAL RECEIVED MEETS THE ABOVE PROPERTIES. SUBMIT TO THE PROJECT ENGINEER ACTUAL DATED (SALES FLYER DATA NOT ACCEPTABLE) TEST DATA WITH THE CERTIFICATION LETTER.

CONSTRUCTION:

PERFORM ALL REQUIRED REPAIRS PRIOR TO PLACING MESH.

MESH SHALL BE PLACED EITHER ON THE PLANED SURFACE OR BETWEEN INTERMEDIATE/LEVELING COURSE LIFTS TO ENSURE A MINIMUM 1.5" COMPACTED ASPHALT OVERLAY ON THE MESH, OR AS DIRECTED BY THE ENGINEER.

ENSURE ALL AREAS WHERE THE MESH IS TO BE PLACED ARE FREE OF ALL DIRT AND OTHER LOOSE MATERIALS BY SWEEPING OR OTHER APPROVED METHOD. PLACE NON-TRACKING TACK COAT AT RATE SPECIFIED IN CMS AND WAIT 2 HOURS BEFORE PLACING THE MESH ON A PAVEMENT SURFACE THAT IS BETWEEN 40°F AND 140°F.

PLACE MESH UNDER TENSION TO PREVENT RIPPLING. REMOVE RIPPLES BY PULLING, OR IF NECESSARY (IN CURVES FOR EXAMPLE), BY CUTTING AND FLATTENING THE MESH. OVERLAP TRANSVERSE JOINTS OF THE MESH 3 TO 6 INCHES. OVERLAP LONGITUDINAL JOINTS OF THE MESH BY 1 INCH MINIMUM. ROLL THE MESH SURFACE 2 PASSES WITH A RUBBER COATED DRUM ROLLER, RUBBER TIRED ROLLER OR OTHER METHOD ACCEPTABLE TO THE MANUFACTURER. CLEAN RUBBER ROLLER IF BUILDUP ON THE RUBBER SURFACE INTERFERES WITH MESH PLACEMENT. DO NOT USE A STEEL DRUM ROLLER. PLACED MESH WILL HANDLE SPEED CONTROLLED EMERGENCY OR CONSTRUCTION TRAFFIC BUT DAMAGED SECTIONS MUST BE REMOVED AND/OR REPAIRED, AT THE CONTRACTORS EXPENSE. DO NOT ALLOW MUD OR OTHER MATERIAL TO COLLECT ON THE MESH PRIOR TO ASPHALT CONCRETE PLACEMENT. COVER MESH WITH ASPHALT CONCRETE THE SAME DAY UNLESS WEATHER BECOMES UNSUITABLE.

MEASUREMENT:

MEASURE MESH PLACEMENT BY THE LINEAL FEAT OF JOINT COVERED. DO NOT ALLOW FOR MESH OVERLAP.

PAYMENT:

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES, COMPLETED IN PLACE, AT THE CONTRACT PRICE, AS DESCRIBED ABOVE, AS FOLLOWS:

ITEM UNIT DESCRIPTION
SPECIAL FT REINFORCEMENT MESH FOR SAW CUT JOINTS

A QUANTITY HAS BEEN CALCULATED FOR THIS WORK IN THE OFFICE CALCULATIONS AND IS CARRIED TO THE GENERAL SUMMARY.

ITEM 632 - TEST HOLE PERFORMED

IF A TEST HOLE CONFIRMS THE FIBER OPTIC LINE IS FOUND TO BE IN CONFLICT WITH THE PROPOSED STORM SEWER, THE CONTRACTOR SH ALL CONTACT AT&T. THE CONTRACTOR SHALL GIVE THREE (3) DAYS NOTICE TO AT&T AND ALLOW AT&T ACCESS TO THE SITE TO PERFORM A LOWERING OF THE EXISTING FIBER LINES. ALLOW TEN (10) WORKING DAYS FOR THE LOWERING IF NECESSARY.

CONTRACTOR TO PERFORM TEST HOLE AS EARLY AS POSSIBLE IN THE CONSTRUCTION SCHEDULE TO MINIMIZE PROJECT DELAYS DUE TO RELOCATION.

THE WORK WILL INCLUDE BACKFILLING, COMPACTING, AND RESTORATION OF THE EXCAVATION TO THE SITE'S ORIGINAL CONDITION. EXCAVATIONS SHALL NOT BE LEFT OPEN OVERNIGHT. PAYMENT FOR THIS ITEM SHALL BE AT THE UNIT PRICE BID PER EACH ITEM 632 TEST HOLE PERFORMED.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE IN LOCATIONS IDENTIFIED IN THE PLANS.

ITEM 632 - TEST HOLE PERFORMED

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GENERAL NOTE

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MAINTENANCE OF TRAFFIC ITEM 614, MAINTAINING TRAFFIC

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THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

- 1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
- 2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
- 3. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
- 4. A QUANTITY OF 5 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- 5. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS, THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
- 6. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, LATEST REVISION.

IF IT IS NECESSARY TO STOP ALL TRAFFIC FOR THE ERECTION OF SPAN WIRE, THE WORK SHALL BE SO ARRANGED THAT THE STOPPAGE IS LESS THAN TEN (10) MINUTES IN ANY ONE (1) THIRTY (30) MINUTE PERIOD. NO STOPPAGE OF TRAFFIC SHALL OCCUR FOR THE ERECTION OF SIGNAL SUPPORTS, CUTTING AND INSTALLING LOOP DETECTOR WIRE, OR HANGING SPAN WIRE AND SIGNAL HEADS, WITHOUT A LAW ENFORCEMENT OFFICER WITH A PATROL CAR AT THE SITE FOR ASSISTANCE IN CONTROLLING TRAFFIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE SERVICES AND SCHEDULING OF SAID LAW ENFORCEMENT OFFICER WITH PATROL CAR.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL FLAGS, FLAGGERS, WATCHERS, BARRICADES, SIGNS, SIGN SUPPORTS AND INCIDENTALS RELATED TO TRAFFIC CONTROL.

SIGNS FURNISHED SHALL BE IN NEW OR LIKE NEW CONDITIONS. LIKE NEW SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PROVIDING AND MAINTAINING LIGHTS, SIGNS, AND BARRICADES FOR THE MAINTENANCE OF TRAFFIC AND SAFETY OF HIS/HER WORK AT THE LOCATIONS SHOWN ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.

TWO-WAY TRAFFIC ON A MINIMUM OF TWO 10-FOOT LANES SHALL BE MAINTAINED BY USE OF THE EXISTING PAVEMENT.

NO LANE CLOSURE SHALL BE IMPLEMENTED DURING THE HOURS OF 6:00am TO 9:00am OR 4:00pm TO 6:00pm WEEKDAYS. ALL ADVANCE WARNING SIGNS FOR ANY CONDITION WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHEN THEY ARE NOT APPLICABLE, AS DETERMINED BY THE ENGINEER. FOR WORK WHICH IS CONFINED TO THE SHOULDER. TRAFFIC CONTROL SHALL CONFORM TO PLATES 6H-1, 6H-3 AND 6H-4 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD).

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND THE FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC. THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY NEW YEAR'S LABOR DAY MEMORIAL DAY *THANKSGIVING* STARK COUNTY FAIR FOOTBALL HALL OF FAME WEEKEND

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES OR EVENT MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY MONDAY 12:00N FRIDAY THROUGH 6:00AM TUESDAY TUESDAY 12:00N MONDAY THROUGH 6:00AM WEDNESDAY WEDNESDAY 12:00N TUESDAY THROUGH 6:00AM THURSDAY THURSDAY 12:00N WEDNESDAY THROUGH 6:00AM FRIDAY THURSDAY (THANKSGIVING ONLY) 6:00AM WEDNESDAY THROUGH 6:00AM MONDAY 12:00N THURSDAY THROUGH 6:00AM MONDAY SATURDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS. THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$5000/DAY THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED. NO EXTENSIONS OF THE TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES. DETOURS AS SHOWN ON SHEETS 14, 17, 25 SHALL BE LIMITED TO 21 CONSECUTIVE CALENDAR DAYS. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3000 PER DAY FOR EACH CALENDAR DAY THE MAXIMUM DETOUR DURATION IS EXCEEDED.

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

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES. ON HOW THEY PROPOSE TO EXECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

DUST CONTROL

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

8 M. GAL.

10 EACH

ITEM 616, WATER

WORK ZONE MARKINGS AND SIGNS

ITEM 614, WORK ZONE MARKING SIGN

ITEM 614 WORK ZONE LANE LINE

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

11EM 014,	WORK ZONE LANE LINE,	
	CLASS I, 6", 642 PAINT	0.10 MILE
ITEM 614,	WORK ZONE CENTER LINE,	
	CLASS I, 642 PAINT	O.10 MILE
ITEM 614.	WORK ZONE EDGE LINE,	
	CLASS I, 6", 642 PAINT	0.20 MILE
ITFM 614	WORK ZONE CHANNELIZING LINE,	
172111 0777	CLASS I, 8", 642 PAINT	150 FT
ITEM 614	WORK ZONE STOP LINE,	100 1 1
ITEM OIT,	ŕ	50 FT
	CLASS I, 642 PAINT	30 F I
IIEM 614,	WORK ZONE ARROW,	
	CLASS I, 642 PAINT	<i>4 EACH</i>
		$\sim\sim$
(IIEM 614,	WORK ZONE LANE LINE,	
>	CLASS III, 6", 642 PAINT	0.46 MILE
\ ITEM 614,	WORK ZONE CENTER LINE,	
(CLASS III, 642 PAINT	0.58 MILE
TTEM 614	WORK ZONE EDGE LINE	
IILIVI UIT,	WORK ZONE EDGE LINE,	
TILW OI4,	•	0.27 MILE
>	CLASS III, 6", 642 PAINT	0.27 MILE
>	CLASS III, 6", 642 PAINT WORK ZONE CHANNELIZING LINE,	
ITEM 614,	CLASS III, 6", 642 PAINT WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	0.27 MILE 1407 FT
ITEM 614,	CLASS III, 6", 642 PAINT WORK ZONE CHANNELIZING LINE,	

DETOUR SIGNING

ALL SIGNING AND WORK ZONE DEVICES REQUIRED FOR ESTABLISHING THE DETOUR ROUTE(S) AS INDICATED IN THESE PLANS SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REP-RESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISS-ING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL SHALL HAVE NO OTHER CONSTRUCTION RELATED DUTIES, PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL

THIS ITEM SHALL BE USED ONLY WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER. THIS ITEM SHALL INCLUDE ALL WORK REQUIRED TO CONSTRUCT, POWER, OPERATE, MAINTAIN, AND SUBSEQUENTLY REMOVE A TEMPORARY TRAFFIC SIGNAL INSTALLATION. TRAFFIC SIGNAL PHASING AND TIMING SHALL BE THE SAME AS THE EXISTING TRAFFIC SIGNAL INSTALLATION OR AS DIRECTED BY THE ENGINEER. EACH LOCATION SHALL BE CONSIDERED ONE LOCATION REGARDLESS OF ANY MODIFICATIONS REQUIRED BY THE ENGINEER.

PAYMENT FOR THIS ITEM SHALL BE PAID AT THE UNIT PRICE BID FOR ITEM SPECIAL WORK ZONE TRAFFIC SIGNAL AND SHALL INCLUDE ALL MATERIAL, EQUIPMENT, LABOR, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK.

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

SPECIAL, WORK ZONE TRAFFIC SIGNAL 1 EACH

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

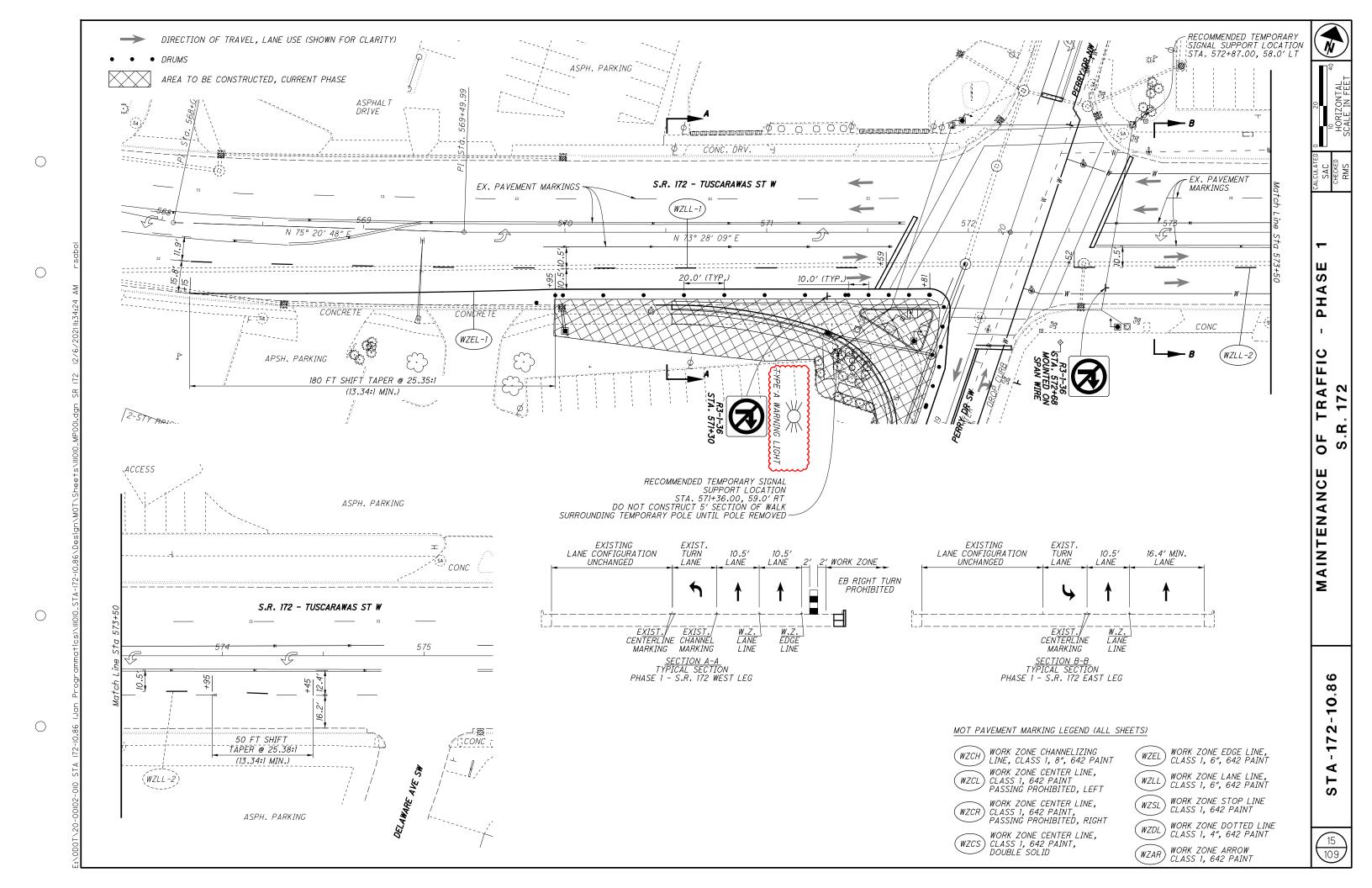
THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 PER DAY THAT TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

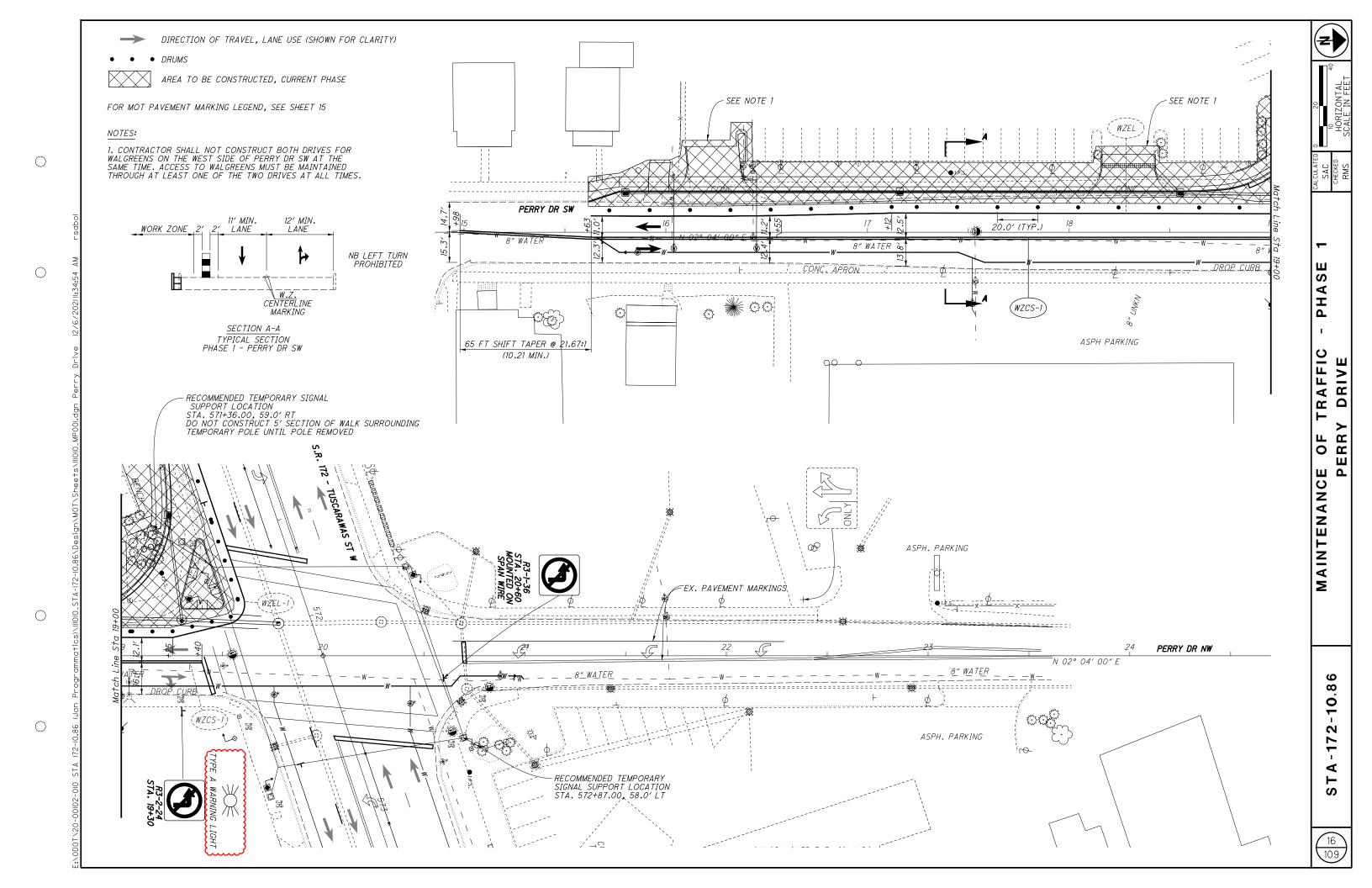
ITEM 614, MAINTAINING TRAFFIC (WINTER TIME LIMITATIONS)

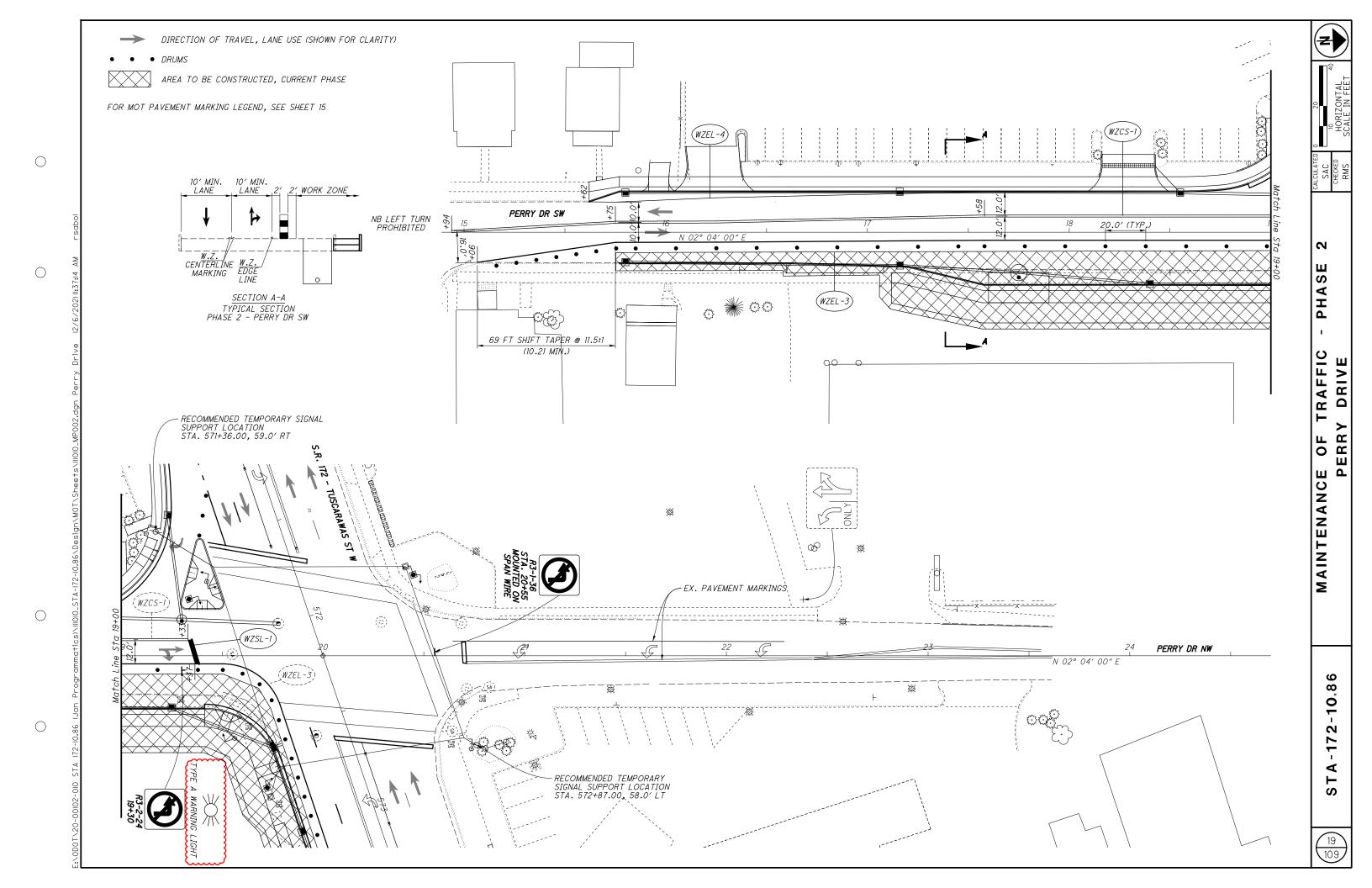
ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN OCTOBER 15 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$5,000 PER CALENDAR DAY.

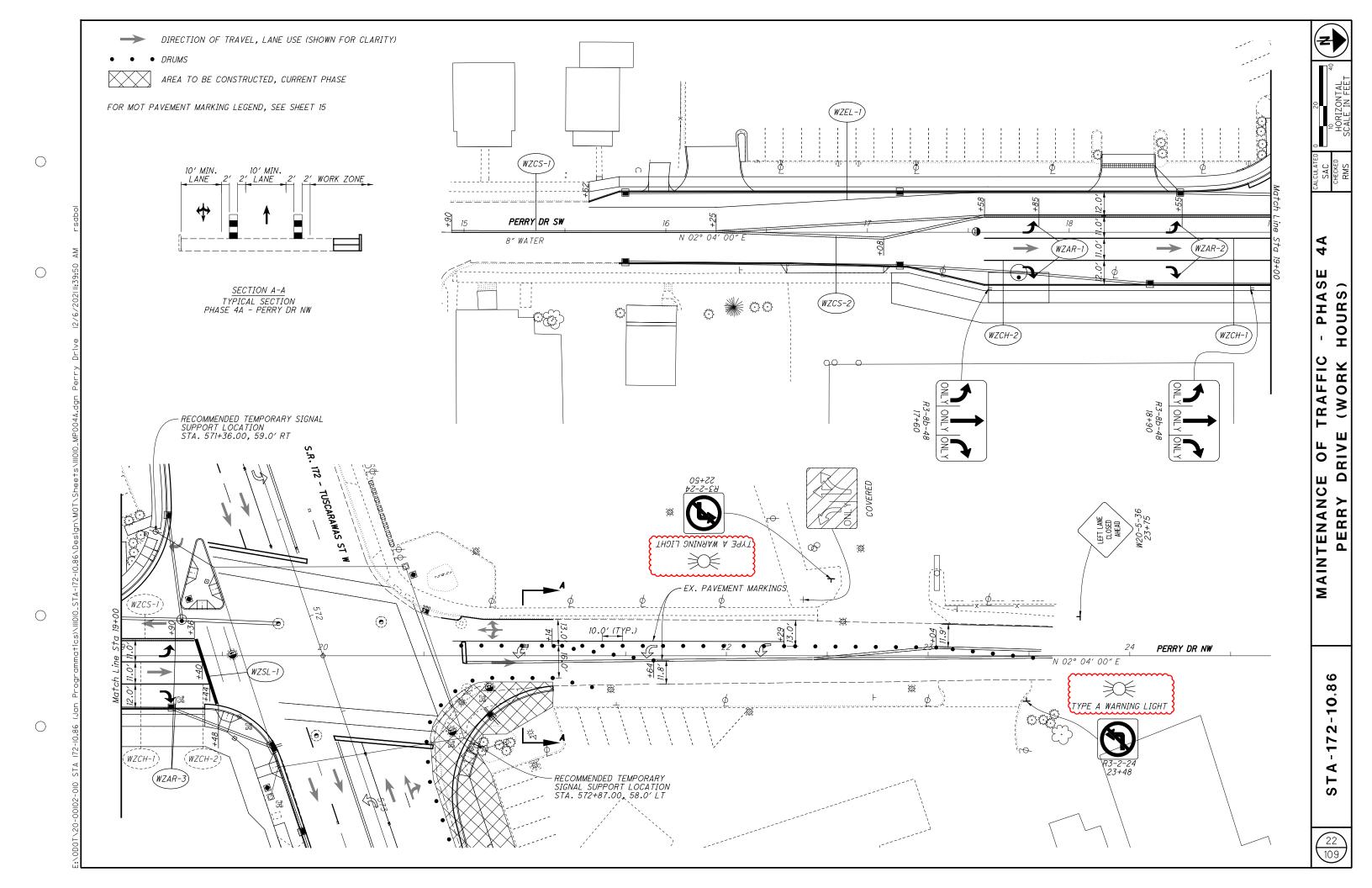


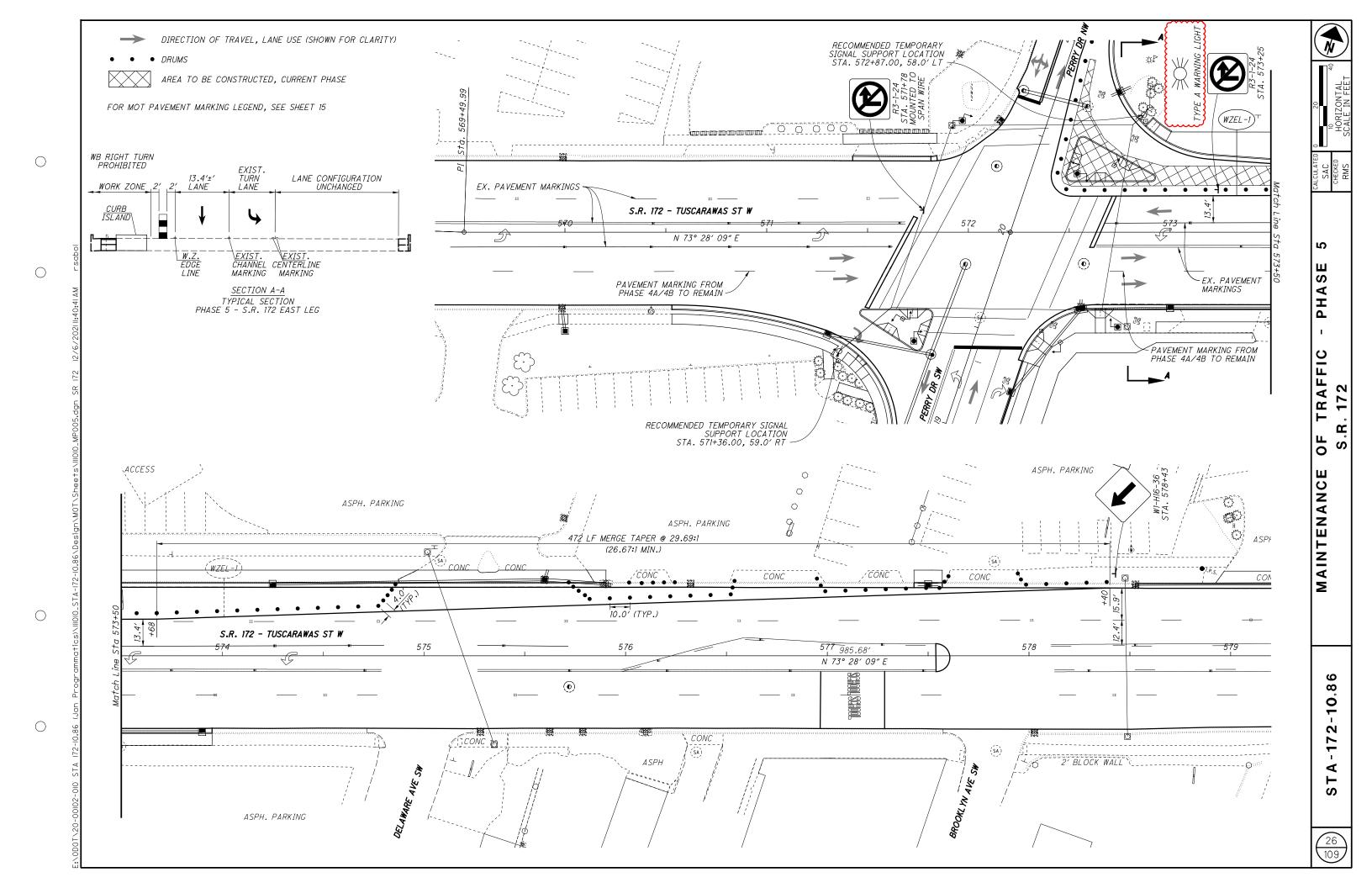
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				95					95			202	35100	95		PIPE REMOVED, 24" AND UNDER		
				3					3			202	58100	3	EACH	CATCH BASIN REMOVED		4
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		23	6			1,952	156	3,996	5,977			608	10000	6,133	SF	4" CONCRETE WALK		4
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			023						020			1 000	32000	023	3/	COLD (TAM)		┨
								3,024	3,024			SPECIAL	69098100	3,024	FT	REINFORCEMENT MESH FOR SAW CUT JOINTS	<i>9A</i>	1
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	100			61					161			605	05210	161		4" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC		
				1,163					1,163		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		<u> 18020 </u>			ALBASE PIPE UNDERDRAINS MITH GEOTEXTILE PABRIC		╛
	160			150					160			611	00406	160		4" CONDUIT, TYPE F		4
	50			150 19					200 19			611 611	00410	200 19		4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET 8" CONDUIT, TYPE B		1
				1,168					1,168			611	04400	1,168		12" CONDUIT, TYPE B		\exists
														,				
				115					115			611	05900	115		15" CONDUIT, TYPE B		4
				79 26					79 26			611 611	97000	79 26		18" CONDUIT, TYPE B SLOTTED DRAIN, TYPE 1, 8"	7	\dashv
	50			20					50			611	97400	50		CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	7	\exists
	50								50			611	97400	50		CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	7	1
																		1
	50								50			611	97400	50		CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	7]
	50								50			611	97400	50		CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	7	4
				1					1 1/			611	98151	1		CATCH BASIN, NO. 3, AS PER PLAN	7	\dashv
				14					14			611 611	98181 98470	14 1		CATCH BASIN, NO. 3A, AS PER PLAN CATCH BASIN, NO. 2-2B		\exists
									<u></u>		<u> </u>		30770	,	ZAOII	on on oneny not a ab		_
				1					1			611	98505	1		CATCH BASIN, NO. 2-2C, AS PER PLAN	7	╛
				1					1			611	98630	1		CATCH BASIN ADJUSTED TO GRADE		占
	1			1					1 1			611	99574 99580	1		MANHOLE, NO. 3 MANHOLE, NO. 3 WITH 84" BASE I.D. AND 6" WEIR		4
				1								611						

				SH	IEET NU	М.					PA		ALT	ITEM	ITEM	GRAND	SEE UNIT DESCRIPTION SHEET SHEET	RMS CHECKED
7	9	35	69	72	74	81	82	99		OFFICE CALCS	01/SAF/PV	02/S>2/OT /CANT	(X)	11 - 101	EXT	TOTAL	NO.	CALC P. R.
-											_				00700	_	DRAINAGE (CONT.)	
3		1									3			611 895	99720 10010	3	EACH INSPECTION WELL 7 EACH MANUFACTURED WATER QUALITY STRUCTURE. TYPE 1 7	
											,				7,007,0	,	Enon immorrance which deneral ornestates the	
	100										100			051	01000	100	PAVEMENT PROTECTION PANCENT PERMIT (441)	
	100										100			251 253	01000	100	SY PARTIAL DEPTH PAVEMENT REPAIR (441) SY PAVEMENT REPAIR	
	700										,,,,,				0,000	700	OT THEMEN TETAL	
										10,840	10,840			254	01000	10,840	SY PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"	
	15		56		17 2					623	195 56	460 2		301 301	46000 48000	655 58	CY ASPHALT CONCRETE BASE, PG64-22 CY ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)	
			2		2					415	122	295		304	20000	417	CY AGGREGATE BASE	
	4		23		5					1 , 157	1,086	103		407	10000	1,189	GAL TACK COAT	
					1					463	463	1		441	50101	464	CY ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M 9	
	4				4					122	39	91		441	50300	130	CY ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE 2. (448)	
			14		1					1	15	1		441	50401	16	CY ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), AS PER PLAN, PG64-22 9	
			3								3			452	10050	3	SY 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	>
			137		8						128	17		452	12050	145	SY 8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	~
			8		27					819	819	35		609	23000	854	FT COMBINATION CURB AND GUTTER, TYPE 4	⋖
			78							813	891			609	24510	891	FT CURB, TYPE 4-C	Σ
										83	83			609	50000	83	SY 4" CONCRETE TRAFFIC ISLAND	Σ
																	WATER WORK	SU
				2,487								2,487		638	06200	2,487	FT POLYETHYLENE ENCASEMENT	•
				1								1		638	10480	1	EACH FIRE HYDRANT REMOVED	
				170 1,798								170 1 , 798		SPECIAL SPECIAL	63820046 63820086	170 1 . 798	FT 6" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS, CITY OF CANTON 73-75 FT 8" WATER MAIN DIP CLASS 52 PUSH ON JOINTS AND FITTINGS, CITY OF CANTON 73-75	R A
				519								519		SPECIAL	63820182	519	FT 12" WATER MAIN DIP CLASS 52 POSH ON JOINTS AND FITTINGS, CITY OF CANTON 73-75	Ш
																		Z
				6								6		SPECIAL	63820538	6	EACH 6" GATE VALVE WITH VALVE BOX, CITY OF CANTON 73-75	Ш
				6 4								4		SPECIAL SPECIAL	63820554 63820586	6	EACH8" GATE VALVE WITH VALVE BOX, CITY OF CANTON73-75EACH12" GATE VALVE WITH VALVE BOX, CITY OF CANTON73-75	G
				2								2		SPECIAL	63820750	2	EACH 6" FIRE HYDRANT, CITY OF CANTON 73-75	
				146								146		SPECIAL	63820772	146	FT 1" POLYETHYLENE WATER SERVICE LINE, CITY OF CANTON 73-75	
,				85								85		SPECIAL	63820776	85	FT 1 1/2" POLYETHYLENE WATER SERVICE LINE, CITY OF CANTON 73-75	
				2								2		SPECIAL	63820780	2	FT 172 POLITETHILENE WATER SERVICE LINE, CITY OF CANTON 73-75 FT 2" POLYETHYLENE WATER SERVICE LINE, CITY OF CANTON 73-75	
				4								4		SPECIAL	63820878	4	EACH CUT AND PLUG EXISTING 6" WATER LINE, CITY OF CANTON 73-75	
				526								526		638	98600	526	FT WATER WORK, MISC.:FILL AND PLUG EXISTING 8" WATER MAIN 74	
														1			SANITARY SEWER	
		4									4			611	99655	4	EACH MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY) 7	
						138					138			621	00100	138	TRAFFIC CONTROL EACH RPM	
						135					135			621	54000	135	EACH RAISED PAVEMENT MARKER REMOVED	
							196				196			630	03100	196	FT GROUND MOUNTED SUPPORT, NO. 3 POST	
							1 /		\sim	\sim		\sim		630 630	79100		EACH SIGN UNIVERSE ASSEMBLY MAST ARM	
								4		\	4			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	79100	4	EACH SIGN HANGER ASSEMBLY, MAST ARM	
							1		$\widetilde{\hspace{1cm}}$	$\check{\sim}\check{\sim}$		\sim					VEACH SISM SUPPORT ASSEMBLY, ROLE WOUNTED	
							168.1	46			214.1			630	80100	214.1	SF SIGN, FLAT SHEET	ဖ
							<u>1</u> 4		<u> </u>		4	\sim		630 630	84520	4	KACH RIGID OVERHEAD SIGN SUPPORT FOUNDATION EACH SPAN WIRE SIGN SUPPORT FOUNDATION	8
							5				5			630	84900	5	EACH REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	Ö
																		Τ
							3				3			630	85100	3	EACH REMOVAL OF GROUND MOUNTED SIGN AND REFRECTION	2
							<u>6</u> 11				6			630 630	86002 87400	6	EACH REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL EACH REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	1
							2				2			630	87500	2	EACH REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	١
														27.5			STANL DEPONE OF OVERVEAR CONTROL TWO DESCRIPTIONS AND ASSESSMENT OF THE PROPERTY OF THE PROPER	⋖
							<u>1</u> 4				1 4			630 630	89704 89810	1 4	EACH REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-16.21 EACH REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	S
							7				7			030	03010	7	LAGI TEMOTAL OF CYLINEAU STON SOFT ONE AIN DESTINABLE, THE TO HERO	-,
						0.27					0.27			646	10010	0.27	MILE EDGE LINE, 6"	
						0.46					0.46			646	10110	0.46	MILE LANE LINE, 6"	_
						0.58 1,407					0.58 1,407			646 646	10200	0.58 1,407	MILE CENTER LINE FT CHANNELIZING LINE, 12"	(31
						1,407					1,407			646	10310	1,407	FT STOP LINE	109

9A		SHEET NUM. 10 11 12 13 81 82									055555	PART. O1/SAF/PV 02/S>2/O1/CANT		ALT	ITEM	ITEM	GRAND	UNIT DESCRIPTION
JA.	10	-	11	12	13	81	82	92	99	100	OFFICE CALCS	01/SAF/PV	02/S>2/OT /CANT	(X)		EXT	TOTAL	
																		TRAFFIC CONTROL (CONT.)
						540						540			646	10500	540	FT CROSSWALK LINE
						308						308			646	10600	308	FT TRANSVERSE/DIAGONAL LINE
						77						77			646	10800	77	SF ISLAND MARKING
						2						2			646 646	20110	2	EACH SCHOOL SYMBOL MARKING, 96" EACH LANE ARROW
						23						23			040	20300	23	EACH LANE ARROW
						569						569			831	00101	569	FT LONGITUDINAL CHANNELIZING DEVICE. AS PER PLAN
																		, i
																		TRAFFIC CONTROL ALTERNATES
							1					1		Х	630	72540	1	EACH OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12 (UNPAINTED) (ALTERNATE 1)
							2					2		X	630	76520	2	EACH SPAN WIRE SIGN SUPPORT, TYPE TC-17.11, DESIGN 8 (UNPAINTED) (ALTERNATE 1)
							1					1		X	630	72541	1	EACH OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 12, AS PER PLAN (PAINTED) (ALTERNATE 2)
							2					2		$\frac{\lambda}{\chi}$	630	76521	2	EACH SPAN WIRE SIGN SUPPORT. TYPE TC-17.11. DESIGN 8. AS PER PLAN (PAINTED) (ALTERNATE 2)
							-					-			030	70027	-	SHAN MINE STONE SOLL SHIP, THE TO HAM, SESSON O, NO FEW FEATURE EX
																		TRAFFIC SIGNALS
									12			12			625	25400	12	FT CONDUIT, 2", 725.04
									18			18			625	25404	18	FT CONDUIT, 2-1/2", 725.04
									27			27			625	25500	27	FT CONDUIT, 3", 725.04
									318 360			318 360			625 625	25600 29000	318 360	FT CONDUIT, 4", 725.04 FT TRENCH
									360			360			020	29000	360	FI IRENCH
									4			4			625	30706	4	EACH
							5		10			15			625	32000	15	EACH GROUND ROD
									360			360			625	36011	360	FT UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN
									1			1			625	76000	1	EACH ARC FLASH CALCULATIONS AND LABEL (SR 172 / PERRY)
																	_	
									6			6			632	05006	6	EACH VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE
	_								<u>4</u> 12			12			632 632	05086 20731	12	EACH VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, BLACK, WITH BACKPLATE EACH PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN
									10			10			632	25000	10	EACH COVERING OF VEHICULAR SIGNAL HEAD
									12			12			632	25010	12	EACH COVERING OF PEDESTRIAN SIGNAL HEAD
									,,_						002	20070		Endit Gotteman of Federitatin Glowie herb
									12			12			632	26000	12	EACH PEDESTRIAN PUSHBUTTON
									1 , 265			1,265			632	40300	1,265	FT SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
									1,615			1,615			632	40500	1,615	FT SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
									610			610			632	40700	610	FT SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
										4		4			632	64010	4	EACH SIGNAL SUPPORT FOUNDATION
$\overline{}$						$\overline{}$		\bigcirc		5		5			632	64020	<u></u>	VEACH PEDESTAL FOUNDATION VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV
1	V V		· ·	_ `		•	V V V	, v v	_ v v	V . V	V V	1	V V	V V	632	64950	1	EACH TEST HOLE PERFORMED
						✓ ✓		$\overline{\mathcal{A}}$	$\overline{\mathcal{M}}$	$\overline{\mathcal{A}}$	\sim				1632	~ Z0001^	\v	POWER SERVICE, ALS PER PLAN
										1		1			632	90100	1	EACH REMOVAL OF TRAFFIC SIGNAL INSTALLATION
										1		1			633	65511	1	EACH CABINET, TYPE TS-2, AS PER PLAN
										1		1			633	67101	1	EACH CABINET FOUNDATION, AS PER PLAN EACH CONTROLLER WORK PAD
										1		1			633 633	67200 75001	1	EACH CONTROLLER WORK PAD EACH UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN
								LS				LS			633	99300	LS	CONTROLLER ITEM, MISC.:WIRELESS MODEM REMOVED AND REINSTALLED
												1			1 333			The state of the s
										2		2			809	69001	2	EACH ADVANCE RADAR DETECTION, AS PER PLAN
										4		4			809	69101	4	EACH STOP LINE RADAR DETECTION, AS PER PLAN
										1		1			809	69123	1	EACH ATC V6.24 CONTROLLER, AS PER PLAN
							1					<u> </u>			-			TDAFFIG CIONAL C ALTERNATEC
											1	 		X	632	72110	2	TRAFFIC SIGNALS ALTERNATES EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4 (UNPAINTED) (ALTERNATE 1)
										2			l	_ ^			2	EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4 (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14 (UNPAINTED) (ALTERNATE 1)
										2 2		2		X	<i>632</i>	72150		
														X	632 632	72150 90000	5	
										2		2		-				
										2		2		-				
										2 5 2 2		2 5 2 2		X X X	632 632 632	90000 72111 72151	5 2 2	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN (PAINTED) (ALTERNATE 2)
										2 5 2		2 5 2		X	632 632	90000 72111	5	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2)
										2 5 2 2		2 5 2 2		X X X	632 632 632	90000 72111 72151	5 2 2	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN (PAINTED) (ALTERNATE 2)
										2 5 2 2		2 5 2 2 5		X X X	632 632 632 632	72111 72151 90001	5 2 2 5	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN (PAINTED) (ALTERNATE 2) MAINTENANCE OF TRAFFIC
	7	4	0							2 5 2 2		2 5 2 2		X X X	632 632 632 632 632	90000 72111 72151 90001	5 2 2 5 5	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN (PAINTED) (ALTERNATE 2) MAINTENANCE OF TRAFFIC HOUR LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
	l LS		0							2 5 2 2		2 5 2 2 5		X X X	632 632 632 632	72111 72151 90001	5 2 2 5	EACH PEDESTAL, 11', TRANSFORMER BASE (UNPAINTED) (ALTERNATE 1) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 14, AS PER PLAN (PAINTED) (ALTERNATE 2) EACH PEDESTAL, 11', TRANSFORMER BASE, AS PER PLAN (PAINTED) (ALTERNATE 2) MAINTENANCE OF TRAFFIC

T	SHEET NUM. 11 12 13					ı	T	PA		ALT	ITEM	ITEM	GRAND	UNIT DESCRIPTION SEE	EE			
) 11	12		13								01/SAF/PV	02/S>2/01 /CANT	(X)		EXT	TOTAL	NC NC	ō.
																	MAINTENANCE OF TRAFFIC (CONT.)	
<u></u>	6),2								6			614	18601 20110	6	SNMT PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN MILE WORK ZONE LANE LINE. CLASS I_6"_642_PAINT	12
46	X X X		V V V	$\stackrel{\vee}{\wedge}\stackrel{\vee}{\wedge}$	^ ^	\ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Y Y Y	$\begin{array}{cccc} & & & & \\ & & & \\ & & & \\ & & \end{array}$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0.46	~ ~ ~		614	20560	0.46	MILE WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
5.8		\nearrow	74	\sim	\sim	\sim	***		$\sim\sim$	***	0.44	$\sim\sim$	***	614	2100	0.44	MILE WORK ZONE LANE LINE, CLASS I. 6", 642 PAINT MILE WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT MILE WORK ZONE LENTER LINE, CLASS II, 642 PAINT MILE WORK ZONE CENTER LINE, CLASS III, 642 PAINT	\dashv
																		\dashv
2	\sim	~	.55	~	~~	~~	~	\sim	~~	~	0.75	~~	~	614	22110	Q.75 07	MILE WORK ZONE EDGE LINE, CLASS I. 6", 642 PAINT MILE WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT FI WORK ZONE CHAPMETIZING LINE, CLASS J. 8", 642 PAINT	\Box
			68								518	\sim		614	23200	0.27	MILE WORK ZONE EUGE LINE, CLASS III, 6", 642 PAINT	\dashv
07	V V V	V V	V V V	× ×	V V	V V \	V V	V V V	V V V	V V	1,407	^ ^ ^		614	23680	1,407	FT WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT FT WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT FT WORK ZONE BOTTED LINE, CLASS I, 4", 642 PAINT	
		+	75								75			614	24200	75	FT WORK ZONE BOTTED LINE, CLASS 1, 4", 642 PAINT	\dashv
2	\sim		58		~~				\sim		108	\sim		614	26200 26610	108	FI WORK ZONE STOP LINE, CLASS J. 642 PAINT FT. WORK ZONE STOP LINE, CLASS III, 642 PAINT	
2								Lii			162		لننا	614	26610 30200	162	FT WORK ZONE STOP LINE, CLASS II. 642 PAINT FT WORK ZONE STOP LINE, CLASS III. 642 PAINT EACH WORK ZONE ARROW, CLASS I, 642 PAINT	
3			0								3			614	40051	3	EACH BUSINESS ENTRANCE SIGN, AS PER PLAN	11
}											8			616	10000	8	MGAL WATER	
													1				INCIDENTALS	\dashv
											LS	LS		614	11000	LS	MAINTAINING TRAFFIC	
											8	4		619	16010	12	MNTH FIELD OFFICE, TYPE B	\Box
											LS LS	LS LS	 	623 624	10000	LS LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING MOBILIZATION	\dashv
																		\dashv
																		\dashv
													1					\dashv
																		\dashv
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					1	202								6	311							895	1 1						\mathcal{E}	05	611
SHEET NO.	REFERENCE NO.	STA	TION	SIDE	PIPE REMOVED, 24" AND UNDER	CATCH BASIN REMOVED	SPECIAL - PIPE CLEANOUT, 24" AND UNDER	8" CONDUIT, TYPE B	I2" CONDUIT, TYPE B	15" CONDUIT, TYPE B	18" CONDUIT, TYPE B	SLOTTED DRAIN, TYPE 1, 8"	CATCH BASIN, NO. 3, AS PER PLAN	CATCH BASIN, NO. 34, AS PER PLAN	CATCH BASIN, NO. 2-2B	CATCH BASIN, NO. 2-2C, AS PER PLAN	MANHOLE, NO. 3	MANHOLE, NO. 3 WITH 84" BASE I.D. AND 6" WEIR	CATCH BASIN ADJUSTED TO GRADE	MANHOLE ADJUSTED TO GRADE, AS PER PLAN	MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY)	MANUFACTURED WATER QUALITY STRUCTURE, TYPE I		SHEET NO.	REFERENCE NO.	FROM	ATION TO	SIDE	4" UNCLASSIFIED PIPE 4" UNDERDRAINS WITH GEOTEXTILE FABRIC	NS IC	4" CONDUIT, TYPE F FOR UNDERDRAIN OUTLET
							SPE)		3		MAI						38	U-1	570+53.00	R. 172 571+30.00	RT	61		10
		FROM	TO		FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH] [38 38	U-2 U-3	19+31.75 572+63.97	572+55.75 573+00.00		1	39 26	10
		S.R	· 172																				1	38,39	U-4	572+79.71	574+25.00	LT		145	10
37	D-1 D-2	568+27.68 569+98.50	570+00.00	LT					12						1					1				38,39	U-5	573+06.75	573+90.00	RT	+	73	10
38 38	D-2 D-3	571+30.00	19+30.00	RT RT					52					1	/								1 [39	U-6	574+31.75	575+59.87	LT	\pm	118	10
38	D-4	571+98.58 572+14.07		RT LT																1]	39 40	U-7 U-8	575+66.54 578+52.80	575+90.29 579+68.25	LT LT	+	14 106	10
38	D-5	572+14.07		LI																1			1	40	0-0			LI	<u>+</u>	100	10
38	D-6	572+55.75	572+55.90	RT					5				1] [41	11.0		RRY DR	DT	1	120	10
38 38	D-7 D-8	572+55.80 572+55.75	572+55.90 573+00.00	RT RT	4	1			44					1										41 41	U-9 U-10	15+86.75 15+86.75	17+16.00	RT LT	+	120 120	10
38	D-9	572+57.20		RT					.,					,						1] [41,42	U-11	17+22.75	18+55.00	LT		123	10
38,39	D-10	572+57.20	575+72.07	RT			315																	41	U-12 U-13	17+20.00 18+46.75	18+40.00 19+25.00	RT RT		111 68	10
38,39	D-11	573+00.00	573+90.00	RT					90					1									┨	41,42	0-13	10+40.13	19+25.00	Α1	+	00	10
39	D-12	574+25.00	575+59.87	LT					135					1] [42	U-14	18+61.75	571+30.00	LT/RT		77	10
39	D-13	575+59.87 575+59.87	575+90.29	LT	35	1				70						,								42	U-15	20+83.68	21+14.00	RT	+	23	10
39 39	D-14 D-15	575+59.87 575+72.07	575+90.29	LT RT	<u> </u>				5	30						1				1			┨						+		
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39 39	D-16 D-17	577+40.02 577+45.00	577+50.00 577+55.00	LT LT	10					10				1									∤ ∟						Д		
40	D-18	578+52.80	579+75.00	LT					122	10				1									1								
		חבחי	07.00																												
41	D-19	15+80.00	RY DR 17+16.00	RT					136					1									-								
41	D-20	15+80.00	17+16.00	LT					136					1																	
41	D-21	17+16.00	17+75.00	RT					59					1									1								
41 41	D-22 WQS-1	17+16.00 17+75.00	18+55.00 18+40.00	LT RT	-				139 85					1				1				1	-								
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41,42	D-23	18+16.36	18+55.00	LT				19	0.5			26		,									-								
41,42 42	D-24 D-25	18+40.00 18+55.00	19+25.00 19+30.00	RT LT					85	75				1									-								
42	D-26	19+25.00	572+55.75	RT					53					1									1								
42	D-27	19+30.00	19+77.91	LT							48						1						-								
42	D-27A	20+51.07		LT															1				1								
42	D-28	20+68.56		LT																1]								
42	D-29 D-30	20+68.56 20+68.78	20+71.36 20+71.36	LT/RT RT	31 5	1					31									1			-								
42 42	D-30 D-31	20+80.12	20+87.24	RT	10	'			10					1									1								
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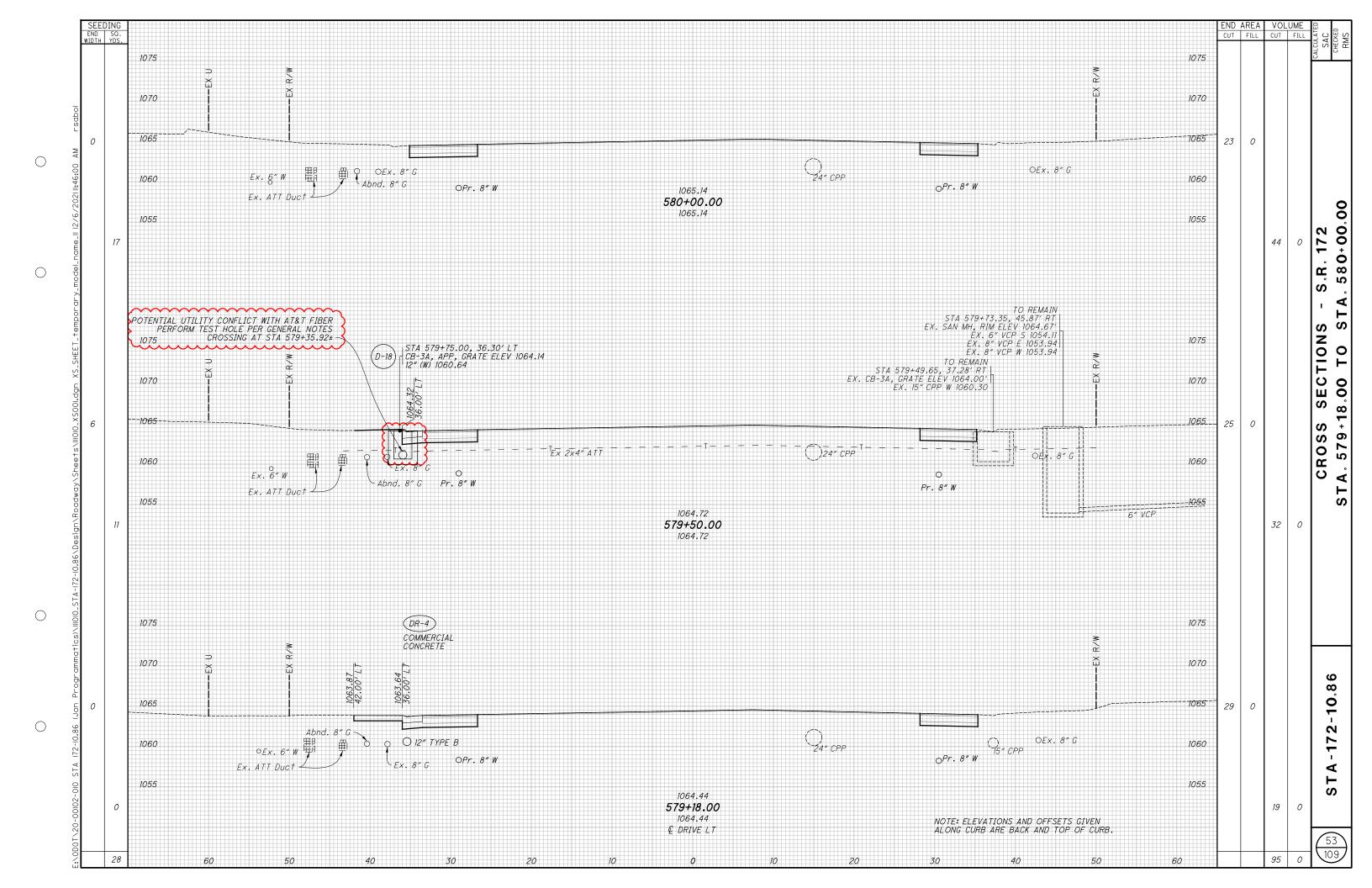
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SUBSUMMARY

DRAINAGE



			625	625	625	625	625	625	625	625	625	630	630	632	632	632	632	632	632	632	632	632	632	TED
:F. O.	SHEET NO.	STATION TO STATION	CONDUIT, 2", 725.04	CONDUIT, 2-1/2", 725.04	CONDUIT, 3", 725.04	CONDUIT, 4", 725.04	TRENCH	PULLBOX, 725.08, 24"	GROUND ROD	UNDERCROUND WARNING/MARKING TAPE, AS PER PLAN	ARC FLASH CALCULATIONS AND LABEL	SIGN, FLAT SHEET	SIGN HANGER ASSEMBLY, MAST ARM	VEHICULAR SIGNAL HEAD, (LED) BLACK, 3-SECTION, 12°LENS, I-WAY, WITH BACKPLATE	VEHICULAR SIGNAL HEAD, (LED) BLACK, 5-SECTION, 12" LENS, I-WAY, WITH BACKPLATE	PEDESTRIAN SIGNAL HEAD, (LED), (COUNTDOWN), TYPE D2, AS PER PLAN	PEDESTRIAN PUSH BUTTON	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	POWER SERVICE, AS PER PLAN	COVERING OF VEHICULAR SIGNAL HEAD	COVERING OF PEDESTRIAN SIGNAL HEAD	CALCULA
	0.4	571.07	FT	FT	FT	FT	FT	EACH	EACH	FT	EACH (SF	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	EACH	EACH	EACH	0
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