

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTION 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OHIO811 8-1-1  
ODOT 330-786-2267 MICHELLE CHANEY

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

SANITARY  
MAHONING COUNTY SANITARY DEPARTMENT  
761 INDUSTRIAL ROAD  
YOUNGSTOWN, OH 44509  
330.793.5514 EXT. 8212  
MELISSA MAGNO  
MMAGNO@MAHONINGCOUNTYOH.GOV

ELECTRIC  
FIRST ENERGY (OHIO EDISON)  
730 SOUTH AVENUE  
YOUNGSTOWN, OH 44502  
330.740.7625  
RAYMOND JENKINS  
JENKINSR@FIRSTENERGYCORP.COM

WATER  
YOUNGSTOWN WATER DEPARTMENT  
26 S. PHELPS STREET  
YOUNGSTOWN, OH 44503  
330.743.5340  
DAN BLAKELY  
DBLAKELY@YOUNGSTOWNOHIO.GOV

TELECOM  
AT&T  
50 W. BOWERY STREET, 6TH FLOOR  
AKRON, OH 44308  
330.384.3048  
HAROLD MAYNARD  
HM2147@ATT.COM

GAS  
DOMINION ENERGY OHIO  
320 SPRINGSIDE DRIVE, SUITE 320  
AKRON, OH 44333  
330.664.2532  
JILL BREEN  
JILL.A.BREEN@DOMINIONENERGY.COM

OIL AND GAS WELL  
OHIO VALLEY ENERGY SYSTEMS  
200 VICTORIA ROAD, BUILDING 4  
AUSTINTOWN, OH 44514  
330.799.2268  
RICK LIDDLE  
RLIDDLE@OV-ENERGY.COM

CABLE  
ARMSTRONG CABLE  
9328 WOODWORTH ROAD  
NORTH LIMA, OH 44452  
330.726.0115  
GENO SHONCE  
CSHONCE@AGOC.COM

CABLE  
CHARTER COMMUNICATIONS  
2904 STATE ROAD  
ASHTABULA, OH 44004  
216-575-8016 OPT. 1 EXT. 216-555-5740  
JASON SPRAGUE  
JASON.SPRAGUE@CHARTER.COM

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION ENERGY'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION ENERGY OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION ENERGY OHIO'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUER (330-478-3757).

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7 P.M. AND 7 A.M. ON S.R. 625 AND TIPPECANOE RD. 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: ONLINE POSITIONING USER SERVICE  
MONUMENT TYPE: IRON PIN WITH PLASTIC CAP SET

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88  
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 1983 (2011) EPOCH: 2010.00  
ELLIPSOID: GEODETIC REF SYSTEM 1980  
MAP PROJECTION: LAMBERT CONFORMAL CONIC TWO PARALLEL  
COORDINATE SYSTEM: OHIO NORTH 3401  
COMBINED SCALE FACTOR: 1.0001037 (GRID TO GROUND)  
ORIGIN OF COORDINATE SYSTEM: GRID COORDINATES SCALED ABOUT 0,0  
PROJECT SCALE FACTOR: N/A

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 DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

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

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

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 369 CU. YD.
- 659, SEEDING AND MULCHING, CLASS 1 3324 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 166 SQ. YD
- 659, INTER-SEEDING 166 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.46 TON
- 659, LIME 0.69 ACRES
- 659, WATER 18 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.

JOINT SEAL

ALL FEATHER OR BUTT JOINTS SHALL BE AS PER ODOT STANDARD CONSTRUCTION DRAWING BP-3.1 AND IN ADDITION, SHALL INCLUDE A 4" WIDE STRIP OF ASPHALT CEMENT 702.01 APPLIED TO THE SURFACE OF THE JOINT. JOINT SEAL SHALL ALSO BE APPLIED AT ALL LOCATIONS MEETING CURB. PAYMENT SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT AND MATERIALS FOR THE WORK NOTES ABOVE AND SHALL BE INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22.

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 A SLOPE.

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:

605, 6" UNCLASSIFIED PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC 100 FT.

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.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

UNSUITABLE SOILS

THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO ADDRESS UNSUITABLE SOILS ENCOUNTERED ON PART 2.  
ITEM 203 - EXCAVATION, 1119 CU YD  
ITEM 203 - GRANULAR MATERIAL, TYPE C (703.16), 1119 CU YD  
ITEM 204 - GEOTEXTILE FABRIC, 4076 SQ YD

THE UNDERCUT AREA WILL NEED TO BE SLOPED TO AN UNDERDRAIN, CATCH BASIN, OR PIPE WHERE APPLICABLE.

CALCULATED  
MDK  
CHECKED  
GPD

GENERAL NOTES

MAH-224/625-15.51/0.00  
PART 2

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
16	17	18	20	51	60	61	62	77			05/S>2/ PV/Meij	EXT	TOTAL				
PAVEMENT																	
3,442											3,442	252	01500	3,442	FT	FULL DEPTH PAVEMENT SAWING	
		2,532									2,532	254	01000	2,532	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"	
		903									903	301	46000	903	CY	ASPHALT CONCRETE BASE, PG64-22	
41		751									792	304	20001	792	CY	AGGREGATE BASE, AS PER PLAN	6
9		1,183									9	407	10000	9	GAL	TACK COAT	
											1,183	407	20000	1,183	GAL	NON-TRACKING TACK COAT	
		135									135	441	50101	135	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG64-22	6
8		484									8	441	50400	8	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
		117									484	441	50200	484	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	
7											117	441	50300	117	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
											7	441	50600	7	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS)	
3,197											3,197	609	12000	3,197	FT	COMBINATION CURB AND GUTTER, TYPE 2	
356											356	609	26000	356	FT	CURB, TYPE 6	
1,912											1,912	SPECIAL	69012050	1,912	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	6
WATER WORK																	
		8									8	638	00200	8	FT	4" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	
			30								30	638	00700	30	FT	6" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	
			2								2	638	01800	2	FT	10" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, PUSH-ON JOINTS AND FITTINGS	
			6	1,139							1,145	638	02500	1,145	FT	12" WATER MAIN DUCTILE IRON PIPE ANSI CLASS 52, MECHANICAL JOINTS AND FITTINGS	
				27							27	638	05102	27	FT	2-1/2" COPPER SERVICE BRANCH	
				1							1	638	07690	1	EACH	2" GATE VALVE AND VALVE BOX	
			1								1	638	07700	1	EACH	4" GATE VALVE AND VALVE BOX	
				3							3	638	07800	3	EACH	6" GATE VALVE AND VALVE BOX	
			1	3							4	638	08100	4	EACH	12" GATE VALVE AND VALVE BOX	
				1							1	638	09600	1	EACH	12" X 4" TAPPING SLEEVE, VALVE AND VALVE BOX	
				1							1	638	09714	1	EACH	12" X 10" TAPPING SLEEVE, VALVE AND VALVE BOX	
				3							3	638	10200	3	EACH	6" FIRE HYDRANT	
	3										3	638	10300	3	EACH	FIRE HYDRANT EXTENDED AND ADJUSTED TO GRADE	
	5										5	638	10800	5	EACH	VALVE BOX ADJUSTED TO GRADE	
TRAFFIC CONTROL																	
					146	8					154	621	00100	154	EACH	RPM	
							83.25				83.25	630	03100	83.25	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
							1				1	630	10802	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 8	
							1				1	630	11002	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.21, DESIGN 10	
								31			31	630	75000	31	EACH	SIGN ATTACHMENT ASSEMBLY	
							6				6	630	79000	6	EACH	SIGN HANGER ASSEMBLY, SPAN WIRE	
							5				5	630	79100	5	EACH	SIGN HANGER ASSEMBLY, MAST ARM	
							238.72	97			335.72	630	80100	335.72	SF	SIGN, FLAT SHEET	
							2				2	630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
							2				2	630	84520	2	EACH	SPAN WIRE SIGN SUPPORT FOUNDATION	
							9				9	630	84900	9	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							12				12	630	85100	12	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
							2				2	630	87100	2	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	
							11				11	630	87400	11	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
					0.22						0.22	646	10010	0.22	MILE	EDGE LINE, 6"	
					0.31						0.31	646	10110	0.31	MILE	LANE LINE, 6"	
					0.61	0.08					0.69	646	10200	0.69	MILE	CENTER LINE	
					3,886						3,886	646	10310	3,886	FT	CHANNELIZING LINE, 12"	
					189	153					342	646	10400	342	FT	STOP LINE	
					613						613	646	10500	613	FT	CROSSWALK LINE	
						162					162	646	10600	162	FT	TRANSVERSE/DIAGONAL LINE	
						43					43	646	20300	43	EACH	LANE ARROW	
					262						262	646	20504	262	FT	DOTTED LINE, 6"	

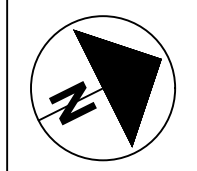
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**GENERAL SUMMARY**  
 MAH-224/625-15.51/0.00  
 PART 2  
 13  
 77

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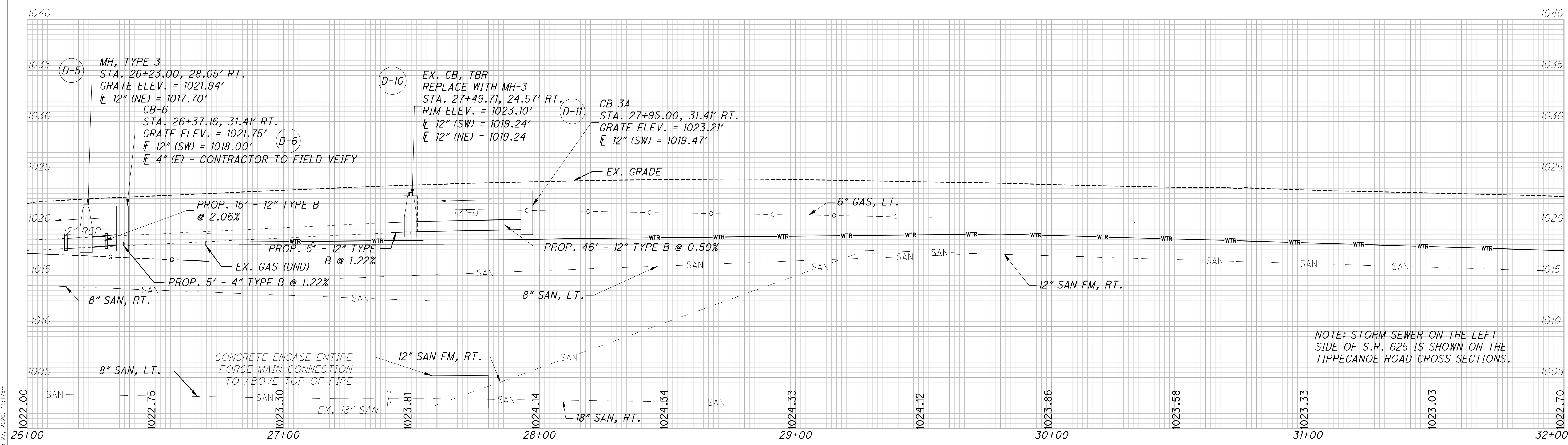
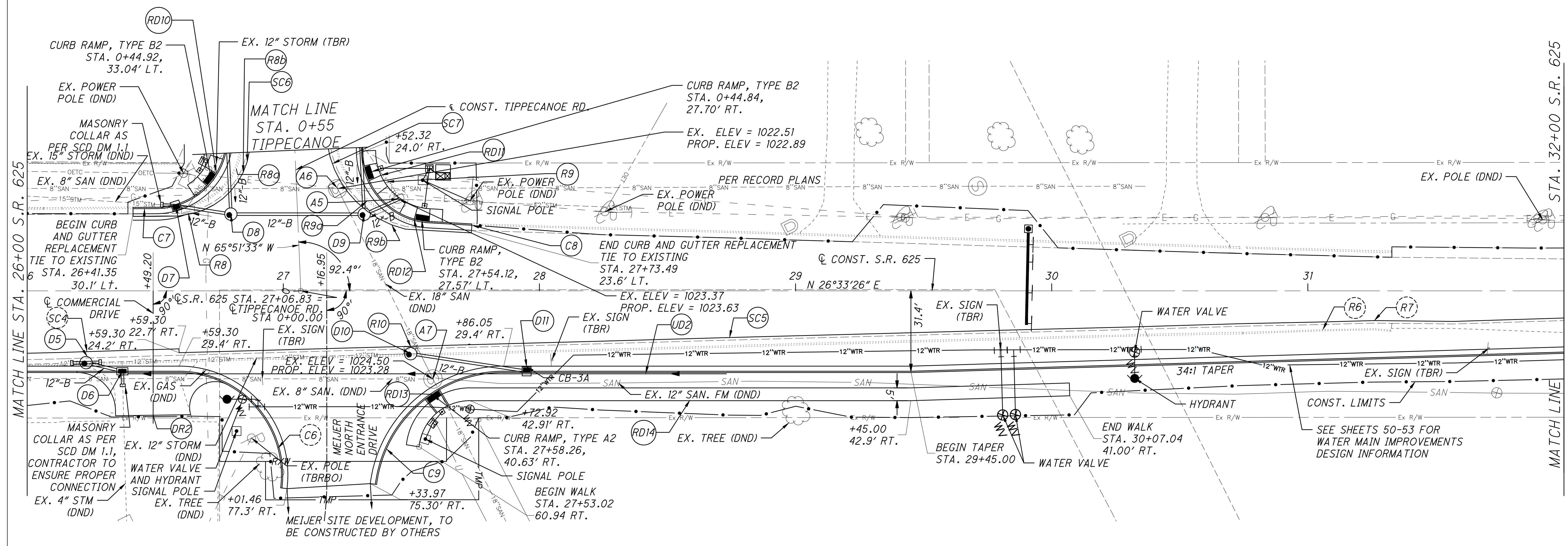




CALCULATED  
CML  
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**PLAN AND PROFILE - S.R. 625  
STA. 26+00 TO STA. 32+00**

**MAH-224/625-15.510.00  
PART 2**



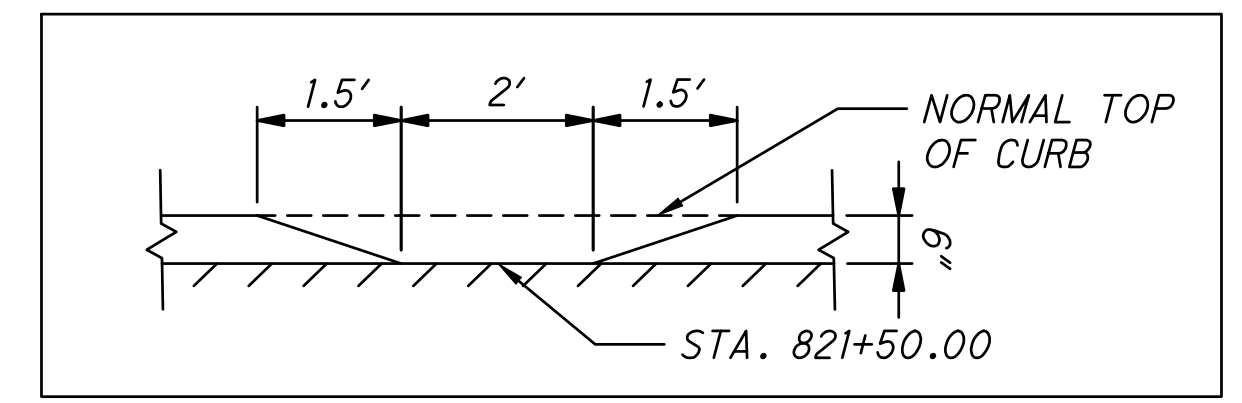
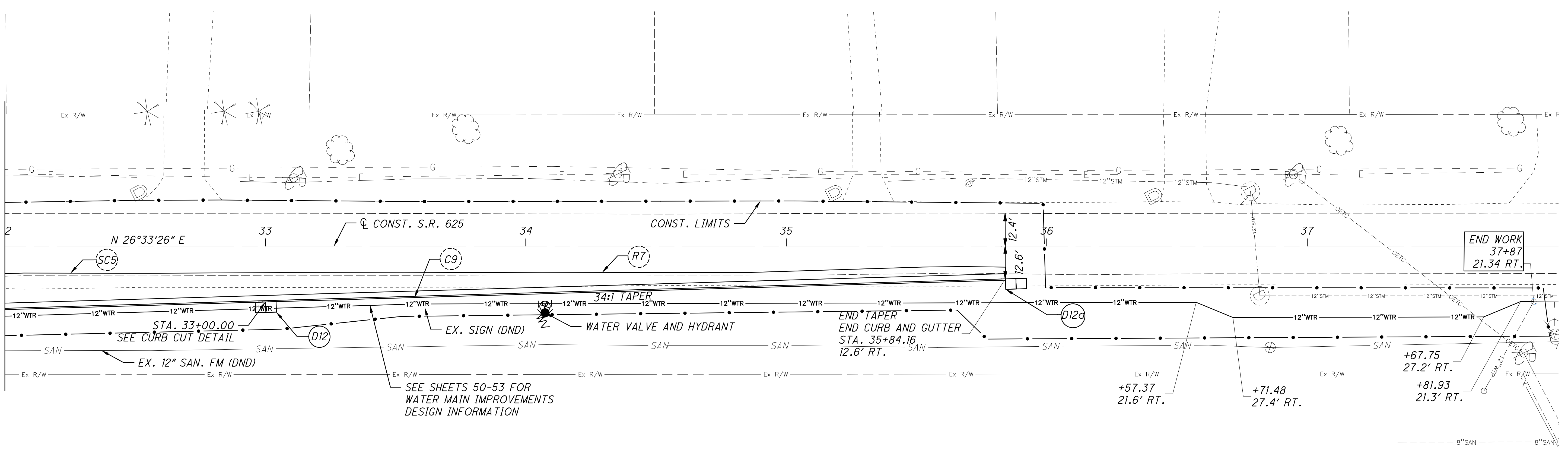
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CHECKED BY: BOARDMAN, TOWNSHIP, OHIO  
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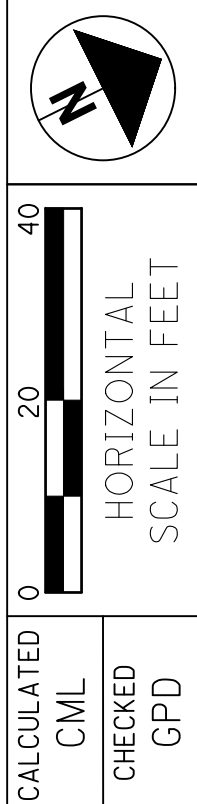
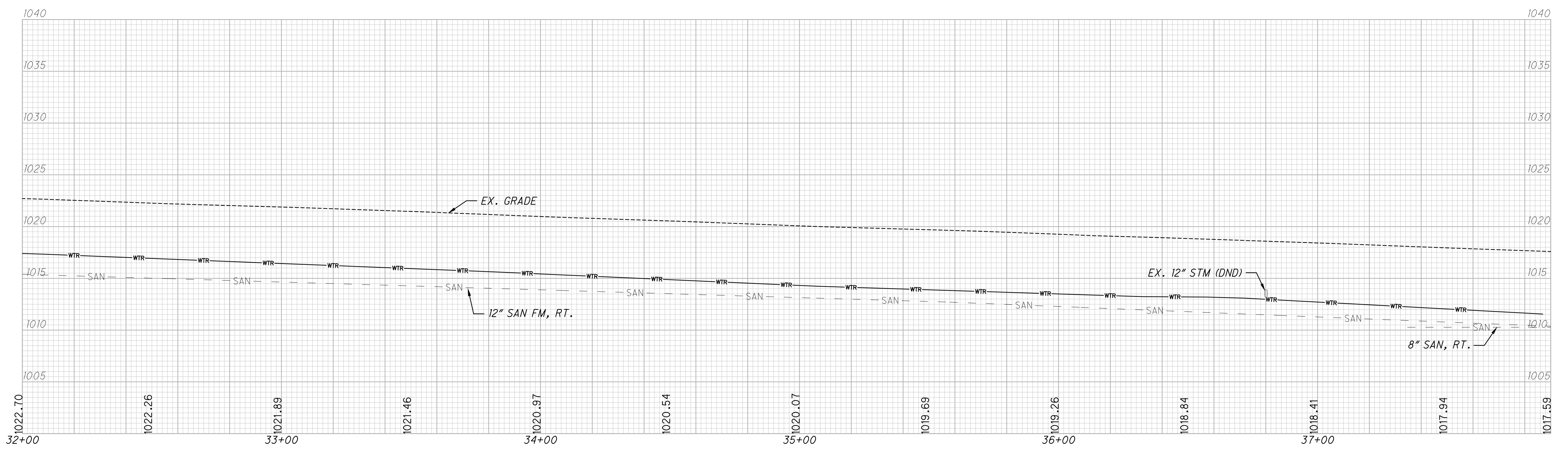


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MATCH LINE STA. 32+00 S.R. 625



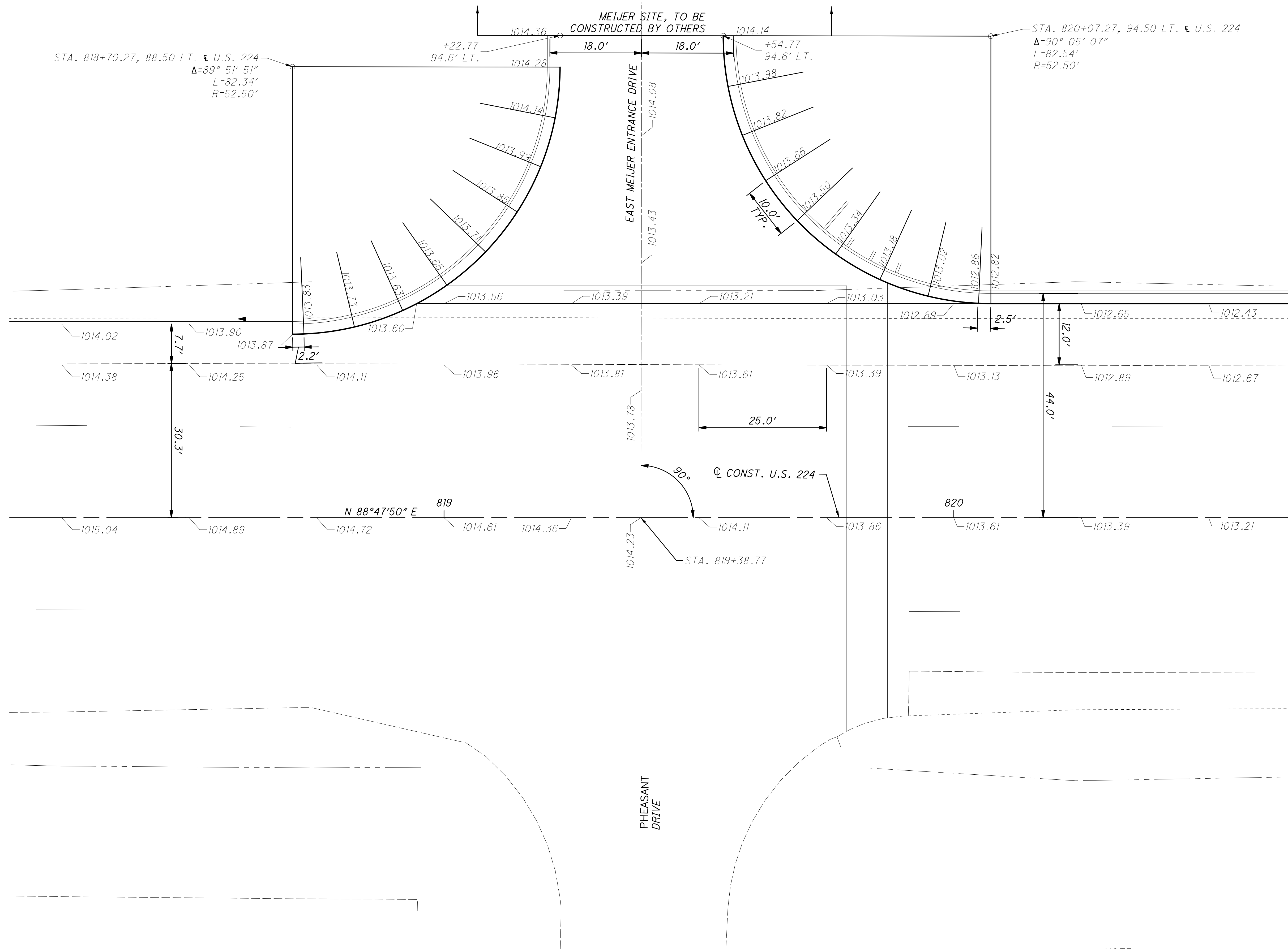
**CURB CUT DETAIL (N.T.S.)**



**PLAN AND PROFILE - S.R. 625**  
**STA. 32+00 TO STA. 38+00**

**MAH-224/625-15.51/10.00**  
**PART 2**

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NOTE:  
ALL ELEVATIONS ALONG THE CURB AND GUTTER  
ARE SHOWN AT THE EDGE OF PAVEMENT.

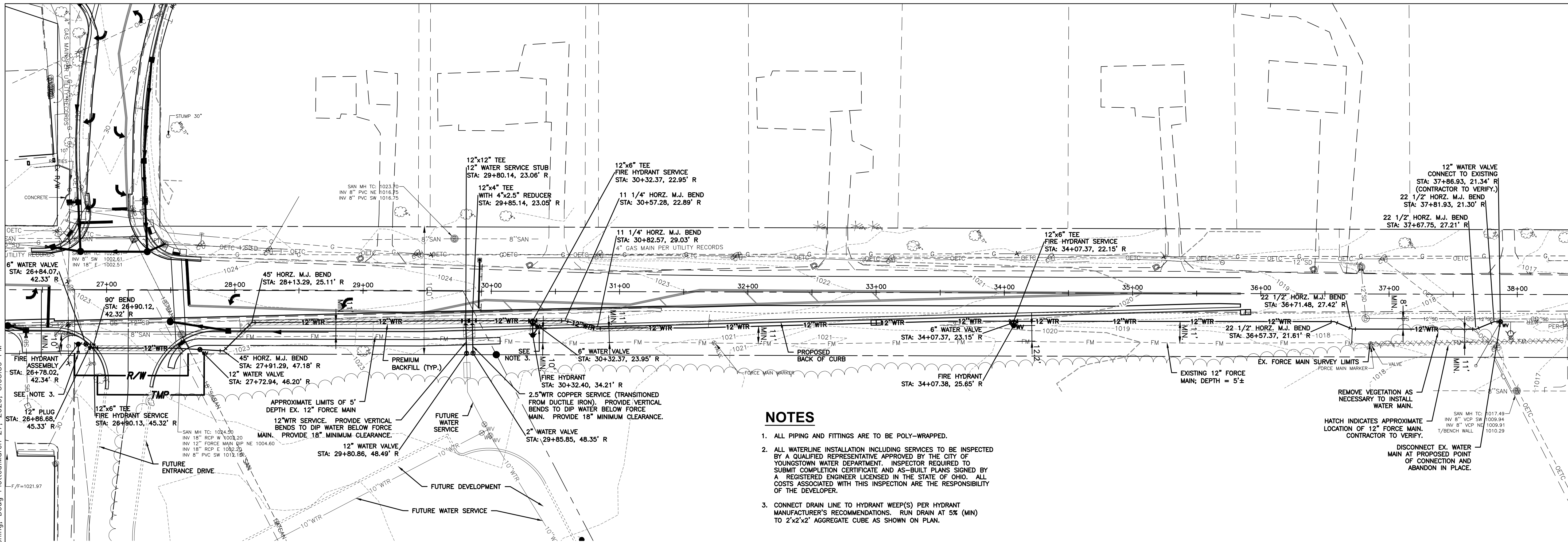
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SCALE IN FEET

INTERSECTION DETAILS  
MEIJER EAST ENTRANCE DRIVE

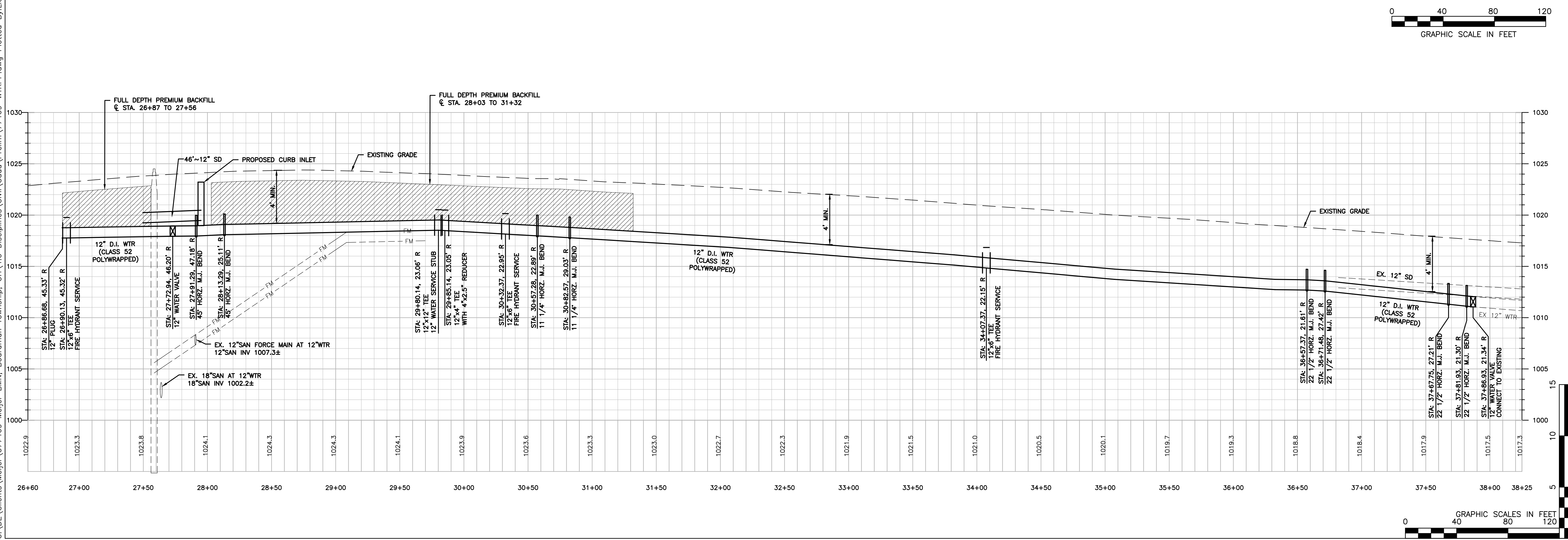
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PART 2

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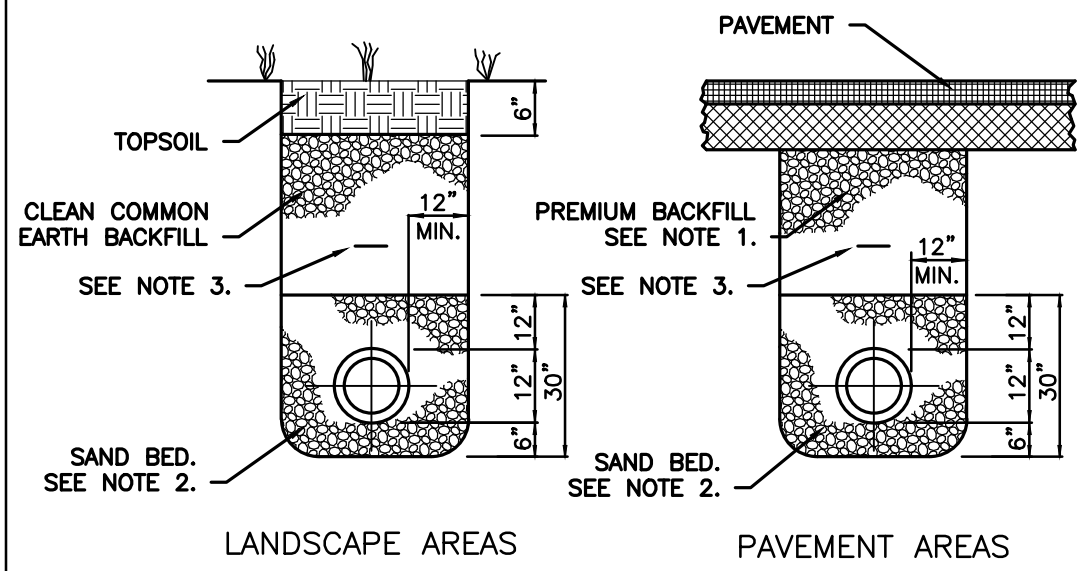
### NOTES

1. ALL PIPING AND FITTINGS ARE TO BE POLY-WRAPPED.
2. ALL WATERLINE INSTALLATION INCLUDING SERVICES TO BE INSPECTED BY A QUALIFIED REPRESENTATIVE APPROVED BY THE CITY OF YOUNGSTOWN WATER DEPARTMENT. INSPECTOR REQUIRED TO SUBMIT COMPLETION CERTIFICATE AND AS-BUILT PLANS SIGNED BY A REGISTERED ENGINEER LICENSED IN THE STATE OF OHIO. ALL COSTS ASSOCIATED WITH THIS INSPECTION ARE THE RESPONSIBILITY OF THE DEVELOPER.
3. CONNECT DRAIN LINE TO HYDRANT WEEP(S) PER HYDRANT MANUFACTURER'S RECOMMENDATIONS. RUN DRAIN AT 5% (MIN) TO 2'x2'x2' AGGREGATE CUBE AS SHOWN ON PLAN.





Images: DETAIL10.JPG; DETAIL11.JPG; DETAIL12.JPG; DETAIL2.JPG; DETAIL3.JPG; DETAIL4.JPG; DETAIL5.JPG; DETAIL6.JPG; DETAIL7.JPG; DETAIL8.JPG; DETAIL9.JPG; . Xrefs: 77469-WTRTRBLK.dwg  
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- NOTES:
1. PREMIUM BACKFILL SHALL MEET ODOT SPECIFICATION 703.11 STRUCTURAL BACKFILL MEETING GRADATION OF #57 FROM TABLE 703.01-1.
  2. SAND BED SHALL MEET ODOT SPECIFICATION 703.03.
  3. INSTALL DETECTABLE TRACER TAPE MARKED WATER 1' ABOVE THE TOP OF THE PIPE.

**TRENCH BACKFILL DETAIL**  
NO SCALE

2'x2'x2' AGGREGATE CUBE  
(SEE SHEET 4 FOR LOCATION)

