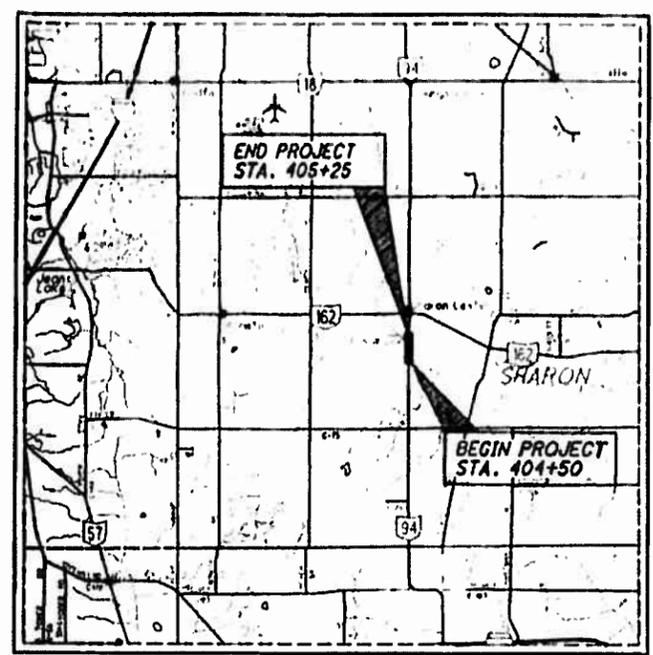


MED - SR 94-07.66
 210346 PID - 90938
 Dist 3 5/27/2021

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION

MED-94-7.66

**SHARON TOWNSHIP
 MEDINA COUNTY**



LOCATION MAP

LATITUDE: 41°05'37" N LONGITUDE: 81°44'08" W



PORTION TO BE IMPROVED

INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

DESIGN DESIGNATION

CURRENT ADT (2020)	6,200
DESIGN YEAR ADT (2040)	6,700
DESIGN HOURLY VOLUME (2040)	600
DIRECTIONAL DISTRIBUTION	58%
TRUCKS (24 HOUR B&C)	6%
DESIGN SPEED	50 MPH
LEGAL SPEED	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
05 MAJOR COLLECTOR (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES
 Contact Two Working Days Before You Dig

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

PLAN PREPARED BY:
EUTHENICS INC.
 CONSULTING ENGINEERS
 8235 Mohawk Drive, Strongsville, Ohio
 (440) 260-1555

ENGINEERS SEAL:

SIGNED: *[Signature]*
 DATE: 11/30/20

ENGINEERS SEAL:

SIGNED: *[Signature]*
 DATE: 11/30/20

INDEX OF SHEETS:

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STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS			
BP-3.1	1/17/20	DM-4.4	1/15/16	TC-41.20	10/18/13	800-2019	4/16/21	
BP-4.1	7/19/13			TC-41.30	10/18/13	832	10/19/18	
		MGS-1.1	1/19/18	TC-42.20	10/18/13	836	1/19/18	
CB-4.2	1/18/13	MGS-2.1	1/19/18	TC-52.10	10/18/13	902	12/31/12	
		MGS-3.1	1/19/18	TC-52.20	7/20/18	939	7/17/15	
HW-1.1	7/20/18	MGS-4.2	7/19/13	TC-61.30	7/19/19			
HW-2.1	7/20/18	MGS-5.2	7/15/16					
HW-2.2	7/20/18	MGS-5.3	7/15/16					
		MGS-6.1	1/19/18					
MH-1.1	1/15/16							
MH-1.2	1/15/16	RN-1.1	7/18/14					
DM-1.1	7/21/17	MT-101.60	1/17/20					
DM-1.2	1/18/13	MT-101.90	7/21/17					
DM-4.2	7/20/12	MT-105.10	7/19/13					
DM-4.3	1/15/16							

PROJECT DESCRIPTION
 REPLACEMENT OF THE S.R. 94 BRIDGE (SFN 5205558), FULL DEPTH PAVEMENT REPLACEMENT, REPLACE THREE RESIDENTIAL DRIVE PIPES AND ONE FIELD DRIVE PIPE, AND COMPLETE CHANNEL GRADING.

EARTH DISTURBED AREAS
 PROJECT EARTH DISTURBED AREA: 0.99 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: 4.9 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 DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 8.

APPROVED: *[Signature]* 02/17/21
 DATE: _____ DISTRICT DEPUTY DIRECTOR

APPROVED: *[Signature]*
 DATE: 4/19/21 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E140 (783)
 PID NO. 90938
 CONSTRUCTION PROJECT NO. _____
 RAILROAD INVOLVEMENT NONE
 MED-94-7.66
 1/49

Contract Proposal available @ www.contracts.dot.state.oh.us
 MED-94-07.66 - MED 94-0938 - MED-094-07.66 - De:cnRoadway\Sheets\90938.ctb - Sheet 2/9/2021 4:05:28 PM

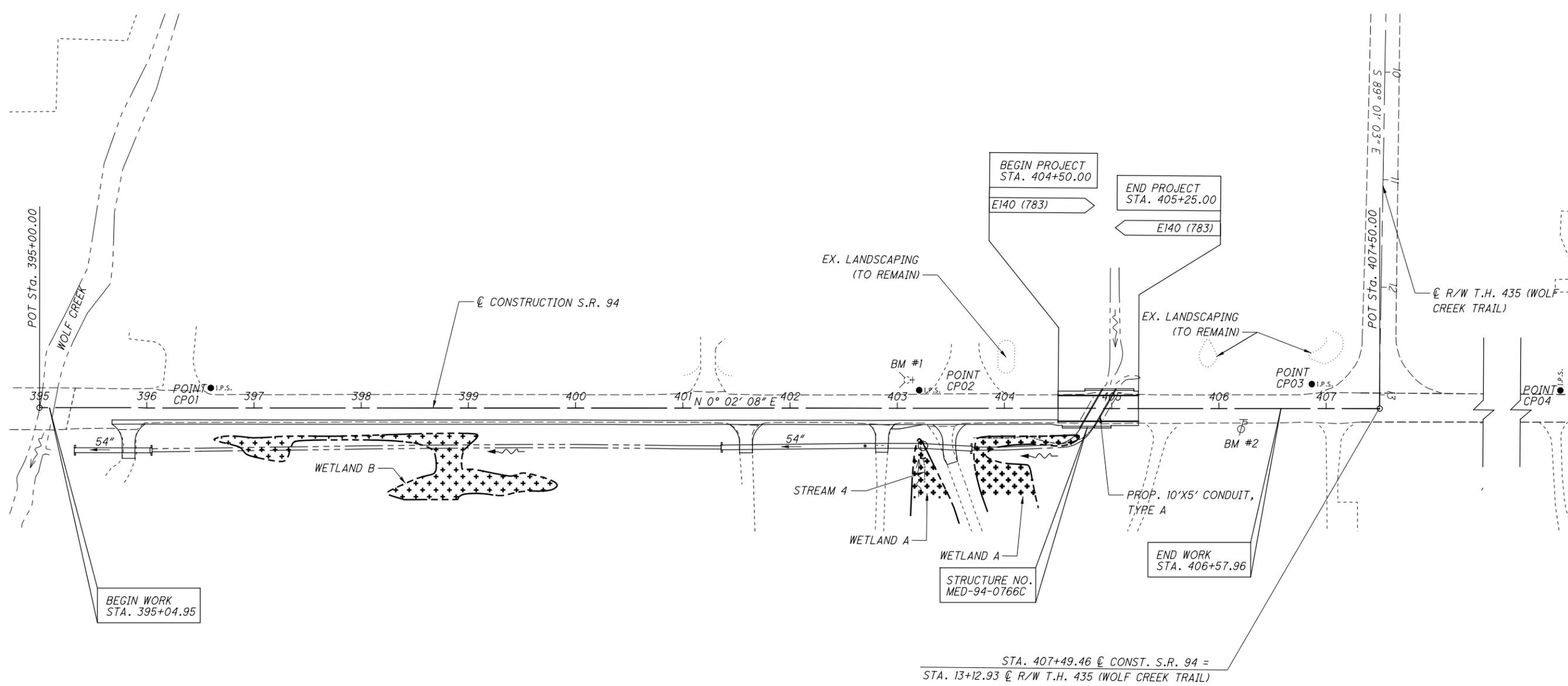


PROJECT CONTROL POINTS INFORMATION

POINT NUMBER	GRID COORDINATES U.S. SURVEY FEET		SCALED COORDINATES U.S. SURVEY FEET		ORTHOMETRIC HEIGHT (ELEVATION)	S.R. 94 CENTERLINE STATION	OFFSET FROM S.R. 94 CENTERLINE	DESCRIPTION
	NORTHING	EASTING	NORTHING	EASTING				
CP01	520373.151	2179172.022	520427.702	2179400.464	1032.93	396+59.73	18.48' LT	3/4" REBAR WITH 3 1/4" ALUMINUM ODOT CONTROL DISK SET
CP02	521033.816	2179174.153	521088.436	2179402.596	1036.71	403+20.47	16.75' LT	5/8" REBAR WITH YELLOW PLASTIC ODOT REFERENCE CAP SET
CP03	521399.961	2179168.443	521454.619	2179396.885	1038.84	406+86.65	22.69' LT	5/8" REBAR WITH YELLOW PLASTIC ODOT REFERENCE CAP SET
CP04	521828.987	2179175.635	521883.690	2179404.078	1052.02	OFF CHAIN		5/8" REBAR WITH YELLOW PLASTIC ODOT REFERENCE CAP SET
BM01	521022.464	2179164.667	521077.083	2179393.109	1038.88	403+09.11	26.23' LT.	CHISLED "X" ON EAST FLANGE BOLT OF FIRE HYDRANT
BM02	521333.930	2179210.577	521388.582	2179439.024	1040.29	406+20.63	19.49' RT.	R.R. SPIKE IN TPP NO POLE NUMBER

S.R. 94 CENTERLINE OF CONSTRUCTION CONTROL

DESCRIPTION	STATION	GRID COORDINATES U.S. SURVEY FEET		SCALED COORDINATES U.S. SURVEY FEET	
		NORTHING	EASTING	NORTHING	EASTING
P.O.T.	395+00.00	520213.426	2179190.395	520267.960	2179418.840
P.O.T.	407+50.00	521463.294	2179191.171	521517.959	2179419.616



SCHEMATIC PLAN

MED-94-7.66

NOTE:
ALL STATIONS AND OFFSETS ARE REFERENCED TO THE CENTERLINE OF CONSTRUCTION.

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ROUNDING

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

UTILITIES

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

MEDINA COUNTY SANITARY ENGINEERS (WATER & SANITARY)
ATTN: JEREMY SINKO, P.E.
791 WEST SMITH ROAD
P.O. BOX 542
MEDINA, OH 44258
PHONE: (330) 764-8331
jsinko@medinaco.org

COLUMBIA GAS
ATTN: MR. DAN SUREN
7080 FRY ROAD
MIDDLEBURG HEIGHTS, OH 44130
PHONE: (440) 891-2428
dsuren@nisource.com

CHARTER COMMUNICATIONS
ATTN: MR. GARY NAUMANN
8179 DOW CIRCLE
STRONGSVILLE, OH 44136
PHONE: (216) 575-8016 EXT. 5033
gary.naumann@charter.com

MEDINA COUNTY FIBER NETWORKS
ATTN: DAVID CORRADO
144 N. BROADWAY STREET
MEDINA, OH 44256
PHONE: (216) 832-7059
dcorrado@fibercounty.com

CITY OF WADSWORTH - ELECTRIC
ATTN: TIM CONRAD
365 BROAD STREET
WADSWORTH, OH 44281
PHONE: (330) 335-2827
tconrad@wadsworthcity.org

CITY OF WADSWORTH - CABLE/FIBER
ATTN: RAY PEARSON
365 BROAD STREET
WADSWORTH, OH 44281
WORK PHONE: (330) 335-2886
CELL: (330) 819-8468
rpearson@wadsworthcity.org

FRONTIER COMMUNICATIONS
ATTN: MR. RANDY HOWARD
6223 NORWALK ROAD
MEDINA, OH 44256
PHONE: (330) 722-9586
j.howard@ftr.com

EVERSTREAM SOLUTIONS
1228 EUCLID AVENUE
HALLE BUILDING, SUITE 250
CLEVELAND, OH 44115
ATTN: JIM BYRNE
PHONE: (216) 923-2215; (216) 581-7972
EMAIL: jbyrne@everstream.net

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.

UTILITY POLE RELOCATIONS

THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CITY OF WADSWORTH UTILITIES AND ADDITIONAL IMPACTED AERIAL UTILITIES ON THE UTILITY POLES IN CONFLICT WITH THE PROPOSED WORK. THE UTILITY POLES WILL BE RELOCATED AFTER THE CONTRACTOR PERFORMS THE PROPOSED GRADING AND DRIVE CONDUIT INSTALLATION. ADDITIONAL COORDINATION TIME WILL BE REQUIRED.

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. 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: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: GEOID 12A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (CONUS)(MOL)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - NORTH ZONE
COMBINED SCALE FACTOR: 1.00010483 (GRID TO GROUND)
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 MONUMNETS 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, AS PER PLAN

THE CONTRACTOR IS ADVISED THAT MANY TREES MARKED FOR REMOVAL HAVE BEEN COMPLETELY REMOVED OR REMOVED WITH STUMPS LEFT BY OTHERS IN PREPARATION FOR THE PROJECT. REMOVE ALL TREES AND STUMPS THAT REMAIN THAT ARE SPECIFICALLY MARKED FOR REMOVAL AS WELL AS ANY WITHIN WOODED AREAS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE CONTRACTOR IS ADVISED TO REVIEW THE EXISTING SITE CONDITIONS TO ESTIMATE THE AMOUNT OF TREE AND STUMP REMOVAL INCLUDED WITH THE CLEARING AND GRUBBING.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	23	0	23
30"	1	0	1
48"	1	0	1

ADDITIONALLY, UNDER THIS ITEM, REMOVE ALL PAPER BOXES AND RETURN THEM TO THE PROPERTY OWNER.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
- COMPACT THE SUBGRADE ACCORDING TO 204.03.
- APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
- EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING (CONTINUED)

- PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
- FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05.

ADDITIONAL SOIL INFORMATION

THE SOIL PROFILE AND/OR STRUCTURE FOUNDATION INVESTIGATIONS SHEETS CONTAIN ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN. ADDITIONAL SUBSURFACE INVESTIGATION INFORMATION IS AVAILABLE FROM ODOT DISTRICT 3.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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CALCULATED
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GENERAL NOTES

MED - 94 - 7.66

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ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE B

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND, THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

THE FACE OF THE TYPE B IMPACT HEAD SHALL BE COVERED WITH TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE B, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING REFLECTIVE SHEETING AND ALL RELATED HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 611 - MANHOLE NO. 3, AS PER PLAN

AT STA 403+24 FURNISH MANHOLE PER MH-1.2 WITH A NEENAH R-2423 TYPE C OPEN GRATE OR EQUIVALENT. ALL MATERIALS AND LABOR, INCLUDING EXCAVATION AND BACKFILL, ARE PAID FOR AT THE CONTRACT PRICE FOR ITEM 611 - MANHOLE NO. 3, AS PER PLAN.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

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.

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	370 CU. YD.
659, SEEDING AND MULCHING	3,333 SQ. YD.
659, REPAIR SEEDING AND MULCHING	167 SQ. YD.
659, INTER-SEEDING	167 SQ. YD.
659, COMMERCIAL FERTILIZER	0.46 TON
659, LIME	0.69 ACRES
659, WATER	18 M. GAL.
659, MOWING	7 M. SQ. FT.

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.

ITEM 605 - AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF NORMAL CROWNED SECTIONS, STAGGERED SO THAT EACH DRAIN IS 25 FEET FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE, AND AT 25 FOOT INTERVALS ON THE LOW SIDE ONLY OF SUPERELEVATED SECTIONS. AN AGGREGATE DRAIN SHALL BE PLACED AT THE LOW POINT OF EACH SAG VERTICAL CURVE.

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

611, 6" CONDUIT, TYPE C	100 FT.
611, 6" CONDUIT, TYPE E	100 FT.
601, ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	5 CU. YD.

ITEM 611 - 54" CONDUIT, TYPE D, AS PER PLAN

THE JOINTS BETWEEN PIPE SEGMENTS AND THE CONNECTIONS TO DRAINAGE STRUCTURES SHALL HAVE PREMIUM (WATERTIGHT) JOINTS DUE TO PROXIMITY TO THE EXISTING SANITARY SEWER. THE PIPE SHALL BE RESTRICTED TO 706.02 FOR HYDRAULIC EFFICIENCY WITH THE GROVED END AT THE UPSTREAM END.

ITEM 611 - MANHOLE, NO. 3, AS PER PLAN

AT STA. 403+24, FURNISH MANHOLE PER MH-1.2 WITH A 90" BASE, WITHOUT DIVERSION WEIR, WITH A NEENAH R-2423 TYPE C OPEN GRATE OR EQUIVALENT. ALL MATERIALS AND LABOR, INCLUDING EXCAVATION AND BACKFILL, ARE PAID FOR AT THE CONTRACT PRICE FOR ITEM 611 - MANHOLE, NO. 3, AS PER PLAN.

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GENERAL NOTES

MED - 94 - 7.66

ITEM 202 - REMOVAL MISC.: POST
ITEM 202 - REMOVAL MISC.: LANDSCAPE LIGHT

PAYMENT SHALL BE PER THE RESPECTIVE BID DESCRIPTION AS SHOWN IN THE GENERAL SUMMARY. THE CAREFUL REMOVAL OF THESE ITEMS SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NEEDED FOR THE COMPLETE REMOVAL OF THE ITEMS AND RETURNING THEM TO THE PROPERTY OWNER. ANY ITEM REFUSED BY THE OWNER SHALL BE DISPOSED OF.

ITEM 611 - DRAINAGE STRUCTURE, MISC.: CLEANOUT RELOCATED

PAYMENT SHALL BE PER THE RESPECTIVE BID DESCRIPTION AS SHOWN IN THE GENERAL SUMMARY. WHERE EXISTING CLEANOUTS ARE ENCOUNTERED DURING CONSTRUCTION OR ARE SHOWN TO BE RELOCATED IN THE PLANS AND THE EXISTING CLEANOUT LOCATION CONFLICTS WITH THE PROPOSED IMPROVEMENT, THE CONTRACTOR SHALL RELOCATE THE CLEANOUT RISER AND CAP TO A POINT ACCEPTABLE TO THE ENGINEER. INCLUDED WITH PAYMENT FOR EACH CLEANOUT RELOCATED SHALL BE THE REPLACEMENT OF THE LATERAL PIPE FROM THE NEAREST JOINT ON THE EXISTING PIPE AT THE EXISTING RISER LOCATION TO THE NEAREST LATERAL PIPE JOINT AT THE NEW LOCATION. THE RELOCATED CLEANOUT MATERIAL SHALL MATCH THE EXISTING CLEANOUT MATERIAL.

ITEM 638 (SPECIAL) - INSTALL 1" POLYETHYLENE WATER SERVICE CONNECTION

PAYMENT SHALL BE PER THE RESPECTIVE BID DESCRIPTION AS SHOWN IN THE GENERAL SUMMARY. THE WORK SHALL BE IN ACCORDANCE WITH CMS ITEM 638 AND THE REQUIREMENT THAT THE SERVICE LINE LOWERING REQUIRES 18" MINIMUM CLEARANCE BELOW THE PROPOSED 54" CONDUITS INSTALLED WITH THIS PROJECT.

MEDINA COUNTY SANITARY ENGINEER (MCSE) WILL SUPPLY ALL NECESSARY MATERIALS INCLUDING, BUT NOT LIMITED TO, SERVICE CONNECTION PIPE, TRACER WIRE, TAPS, SHUTOFF VALVE ASSEMBLY, AND METER VAULT. THE CONTRACTOR WILL BE REQUIRED TO BORE THE NEW WATER CONNECTION UNDER EXISTING PAVEMENT WITH TRACER WIRE AND LOCATE THE PIPE AS IT IS BORED. ONCE THE CONTRACTOR HAS COMPLETED THE INSTALLATION OF THE NEW WATER SERVICE CONNECTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPOSING THE EXISTING WATER CONNECTION FOR EACH OF THE THREE (3) WATER SERVICES SO MCSE PERSONNEL CAN PROPERLY ABANDON THE CONNECTION. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR EXCAVATION OF THE THREE (3) NEW WATER SERVICE TAPS TO BE INSTALLED BY MCSE PERSONNEL. THE NEW WATER TAPS MUST BE A MINIMUM FOUR FEET (4') FROM THE EXISTING TAP AND NOT CLOSER THAN TWO FEET (2') FROM A BELL ON THE WATER MAIN. ALL WORK WITH MCSE PERSONNEL MUST BE COORDINATED A MINIMUM FORTY-EIGHT (48) HOURS IN ADVANCE OF THE SCHEDULED WORK.

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE LOCATION OF THE NEW SHUTOFF VALVE (CURB STOP ASSEMBLY) FOR MCSE PERSONNEL. THE ABANDONMENT OF THE EXISTING WATER CONNECTION, TAP FOR THE NEW WATER CONNECTION, AND THE RELOCATION OF THE SHUTOFF VALVE (CURB STOP ASSEMBLY) AND METER VAULT MUST OCCUR ON THE SAME DAY.

THE COST ASSOCIATED WITH THIS INSTALLATION REQUIREMENT SHALL BE INCLUDED IN THE UNIT COST OF THE SERVICE BEING INSTALLED.

ITEM 832 - EROSION CONTROL

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY PROVIDED FOR USE BY THE CONTRACTOR AND AS DIRECTED BY THE ENGINEER FOR EROSION CONTROL MEASURES DURING CONSTRUCTION AS PER SS 832.

ITEM 832, STORM WATER POLLUTION PREVENTION PLAN - LUMP SUM

ITEM 832, STORM WATER POLLUTION PREVENTION INSPECTIONS - LUMP SUM

ITEM 832, STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE - LUMP SUM

ITEM 832, EROSION CONTROL 15,000 EA.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, 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 STATE.

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 STATE. 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 CONTRACTOR'S 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.

ENVIRONMENTAL NOTES

NOTIFICATION OF DEMOLITION AND/OR RENOVATION

FOR THIS STRUCTURE, A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM WITH SECTIONS I-VII, XVII, XVIII COMPLETED BY ODOT WILL BE PROVIDED TO THE CONTRACTOR. THE CONTRACTOR WILL COMPLETE THE OHIO EPA ONLINE NOTIFICATION OF DEMOLITION AND RENOVATION FORM AND PAY THE CALCULATED APPLICABLE FEES TO THE OHIO EPA, AT LEAST 10 BUSINESS DAYS PRIOR TO DEMOLITION/RENOVATION ACTIVITIES. ALL ASSOCIATED FEES MUST BE PAID VIA CREDIT CARD OR BY ELECTRONIC CHECK TO THE OHIO EPA. ALL WORK TO COMPLY WITH THESE REQUIREMENTS AND THE FEES REQUIRED BY THE OHIO EPA SHALL BE INCLUDED IN ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN. DURING THE DEMOLITION OF THE STRUCTURE, SHOULD ASBESTOS CONTAINING MATERIAL (ACM) BE FOUND, THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO ENSURE THE ACM DOES NOT BECOME FRIABLE. TO ASSURE THE NON-FRIABLE ASBESTOS MATERIAL DOES NOT BECOME FRIABLE OR IN THE EVENT THAT THE NON-FRIABLE MATERIAL BECOMES FRIABLE, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL TRAINED IN THE PROVISIONS OF NESHAP THAT WILL BE ON-SITE DURING THE DEMOLITION AND/OR REMOVAL OF THE ACM. ALL ACMs SHALL BE PROPERLY CONTAINERIZED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH THE STATE AND FEDERAL REGULATIONS. COST TO CONTAIN, TRANSPORT AND DISPOSE OF ACM FOUND UPON DEMOLITION OF THE STRUCTURE WILL BE PAID BY CHANGE ORDER.

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

ODOT WILL OBTAIN ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK BELOW THE ORDINARY HIGH WATER MARK OF ANY WATERWAY AND ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PROJECT PLANS. THE CONTRACTOR IS NOT AUTHORIZED TO PLACE ANY FILL OR WORK WITHIN ANY WATERWAY BELOW THE ORDINARY HIGH WATER MARK DURING CONSTRUCTION UNTIL THE PERMIT(S) ARE OBTAINED.

CONTRACTOR COORDINATION

THE CONTRACTOR IS ADVISED THAT THE MED-162-25.43 PROJECT (PID 100063) USES THIS PORTION OF S.R. 94 AS THE POSTED DETOUR.

THE MED-162-25.43 PROJECT HAS A CONSTRUCTION COMPLETION DATE OF 8/31/21.

THE CONTRACTOR MAY NOT CLOSE S.R. 94 TO TRAFFIC UNTIL EITHER SEPTEMBER 1, 2021, OR THE MED-162-25.43 BRIDGE REPLACEMENT PROJECT IS COMPLETED AND THE PORTION OF S.R. 162 NEEDED FOR THIS PROJECT'S DETOUR ROUTE IS OPEN.

RECOMMENDED CONSTRUCTION SEQUENCE

THE RECOMMENDED PROCEDURE TO CONSTRUCT THE REPLACEMENT MED-94-7.66 STRUCTURE IS OUTLINED BELOW.

PRIOR TO CONSTRUCTION START:

UPON RECEIPT OF AN ANTICIPATED COMPLETION DATE OF THE MED-162-25.43 STRUCTURE PROJECT, CONTRACTOR SHALL COORDINATE WITH THE DISTRICT AND UTILITY COMPANIES ON THE ANTICIPATED CONSTRUCTION START DATE. MED-94-7.66 SHALL NOT BE CLOSED CONCURRENTLY WITH MED-162-25.43. THE CONTRACTOR WILL HAVE 90 DAYS OF ROAD CLOSURE TO COMPLETE THE PROJECT. PRIORITY DURING THE FIRST 45 DAYS OF THE CLOSURE PERIOD SHALL BE TO HAVE THE CONTRACTOR FOCUS ON THE DRAINAGE WORK FROM STA 395+00 TO STA 404+50. DURING THIS TIME, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES SO THAT THEY MAY SIMULTANEOUSLY PERFORM THEIR RELOCATION WORK.

CONSTRUCTION SEQUENCE:

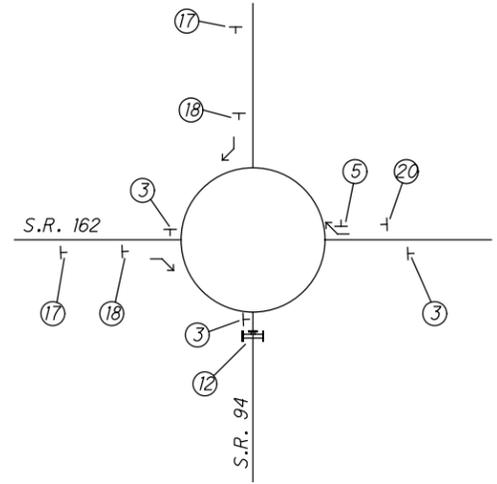
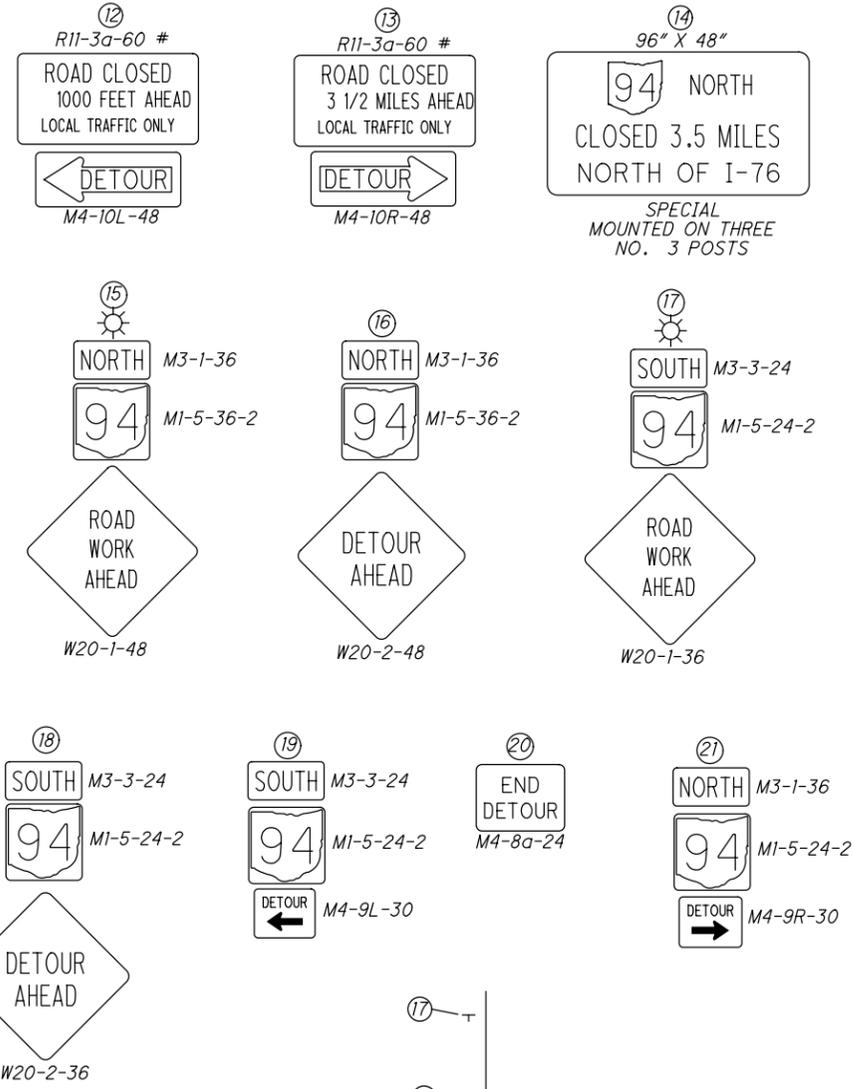
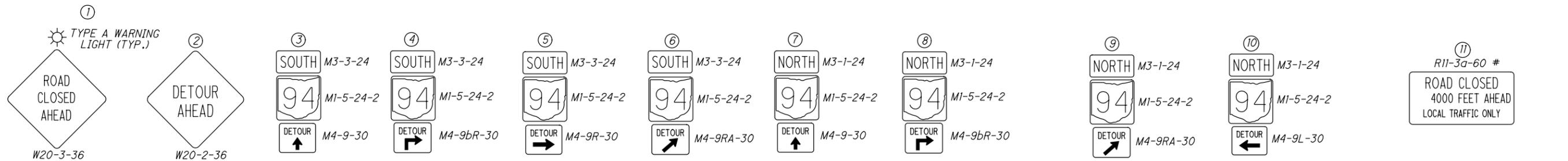
1. ESTABLISH WORK ZONE. SET ALL ROAD CLOSURE AND TRAFFIC DETOUR SIGNAGE.
2. CLOSE S.R. 94 TO TRAFFIC.
3. STARTING FROM THE SOUTHERN END OF THE PROJECT, PERFORM THE FOLLOWING:
 - A. PLACE TEMPORARY DRIVEWAYS AND DRIVE PIPES.
 - B. INSTALL NEW DRIVE PIPES
 - C. RELOCATE AND DEEPEN ROADSIDE DRAINAGE DITCH.
 - D. REMOVE TEMPORARY DRIVEWAYS AND DRIVE PIPES.
 - E. COMPLETE ROUGH GRADING IN THE VICINITY OF THE ROADSIDE DITCH.
4. UTILITY RELOCATION TO BEGIN IN THE SOUTHERN SECTION AND WORK IN COORDINATION WITH THE CONTRACTOR AS WORK IS COMPLETED AND ROUGH GRADE SET MOVING NORTH.
5. AFTER DITCH RELOCATION IS COMPLETED, REMOVE THE EXISTING STRUCTURE AND APPROACH ROADWAY.
6. CONSTRUCT REPLACEMENT MED-94-7.66 STRUCTURE.
7. CONSTRUCT APPROACH ROADWAY TO MATCH INTO EXISTING S.R. 94.
8. UPON COMPLETION OF THE UTILITY RELOCATION AND STRUCTURE REPLACEMENT PERFORM FINAL GRADING, SEEDING/MULCHING AND INSTALL GUARDRAIL.
9. PLACE TRAFFIC SIGNS AND PAVEMENT MARKINGS.
10. RE-OPEN S.R. 94 TO TRAFFIC WITHIN 90 DAYS OF THE ROAD CLOSURE.

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GENERAL NOTES

MED - 94 - 7.66



DETAIL A

ON TYPE III BARRICADE WITH TYPE B WARNING LIGHTS MOUNTED PER SCD MT-101.60



MAINTENANCE OF TRAFFIC
DETOUR PLAN

MED-94-7.66



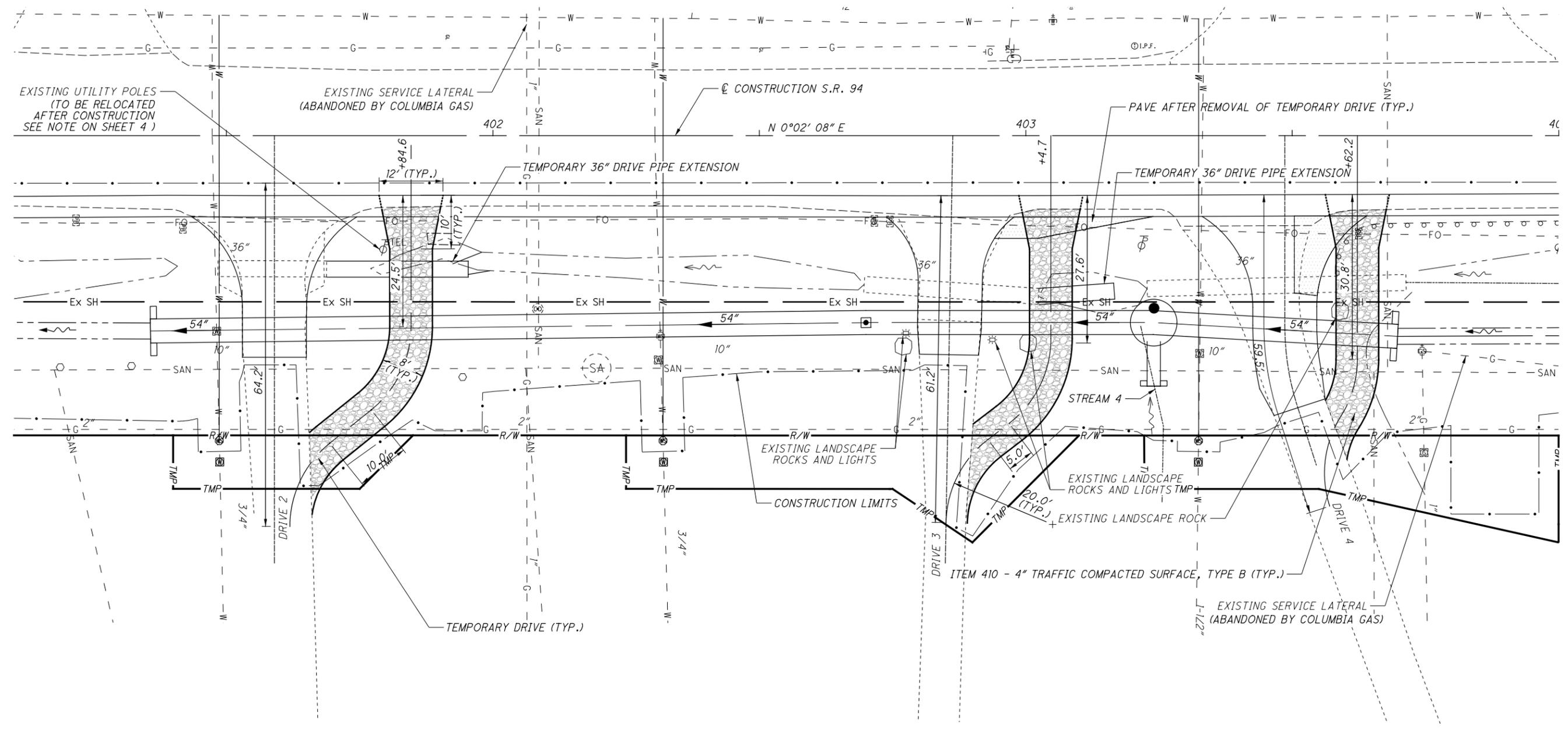
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**MAINTENANCE OF TRAFFIC
TEMPORARY DRIVE ACCESS**

MED-94-7.66

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CONTRACTOR IS REQUIRED TO MAINTAIN RESIDENTIAL DRIVE ACCESS AT ALL TIMES.
SUGGESTED PHASING:

- PLACE TEMPORARY DRIVE PIPE EXTENSION UNDER ALL TEMPORARY DRIVES
- CONSTRUCT ALL TEMPORARY DRIVES (EARTHWORK TOPPED WITH 4" OF ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE B)
- REMOVED EXISTING DRIVES SHOWN TO BE RECONSTRUCTED
- CONSTRUCT NEW 54" DRIVE PIPE, MANHOLE, AND SIDE DITCH INLET
- WHEN CONSTRUCTING NEW 54" DRIVE PIPE UNDER TEMPORARY DRIVES:
 - STEEL PLATES OF SUFFICIENT LENGTH TO SAFELY SPAN THE TRENCH SHALL BE READILY AVAILABLE TO COVER TRENCH IF RESIDENTIAL ACCESS IS REQUIRED DURING THIS PHASE OF CONSTRUCTION.
- REMOVE EXISTING DRIVE PIPES AND TEMPOARY DRIVE PIPES ONCE FLOW IS DIVERTED TO NEW SYSTEM
 - STEEL PLATES OF SUFFICIENT LENGTH TO SAFELY SPAN THE TRENCH SHALL BE READILY AVAILABLE TO COVER TRENCH IF RESIDENTIAL ACCESS IS REQUIRED DURING THIS PHASE OF CONSTRUCTION.
- PAVE DRIVES 2 & 3 AND SUFFICIENT PORTION OF DRIVE 4 TO MAINTAIN ACCESS
- REMOVE TEMPORARY DRIVES
- PAVE REMAINING PORTION OF RECONSTRUCTED DRIVE 4

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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	13	18	19	28	OFFICE CALCS	01/STR/ BR	02/STR/ BR								
ROADWAY																	
LS								LS		201	11001	LS			CLEARING AND GRUBBING, AS PER PLAN	4	
						162	419	581		202	23000	581	SY		PAVEMENT REMOVED		
				82				82		202	35100	82	FT		PIPE REMOVED, 24" AND UNDER		
				102				102		202	35200	102	FT		PIPE REMOVED, OVER 24"		
				405				405		202	38000	405	FT		GUARDRAIL REMOVED		
				1				1		202	53100	1	EACH		MAILBOX REMOVED		
				5				5		202	98100	5	EACH		REMOVAL MISC.: POST	6	
				2				2		202	98100	2	EACH		REMOVAL MISC.: LANDSCAPE LIGHT RETURNED TO OWNER	6	
			1,554					1,554		203	10000	1,554	CY		EXCAVATION		
			1,719					1,719		203	20000	1,719	CY		EMBANKMENT		
						181	773	954		204	10000	954	SY		SUBGRADE COMPACTION		
			108					108		204	13000	108	CY		EXCAVATION OF SUBGRADE		
			108					108		204	30010	108	CY		GRANULAR MATERIAL, TYPE B		
			1					1		204	45000	1	HOUR		PROOF ROLLING		
							234	234		204	50000	234	SY		GEOTEXTILE FABRIC		
				887.5				887.5		606	15050	887.5	FT		GUARDRAIL, TYPE MGS		
				87.5				87.5		606	15051	87.5	FT		GUARDRAIL, TYPE MGS, AS PER PLAN	39	
				1				1		606	26050	1	EACH		ANCHOR ASSEMBLY, MGS TYPE B		
				1				1		606	26150	1	EACH		ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350/MASH 2016)		
				9				9		606	26550	9	EACH		ANCHOR ASSEMBLY, MGS TYPE T		
				1				1		606	35002	1	EACH		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		
				1				1		SPECIAL	69050100	1	EACH		MAILBOX SUPPORT SYSTEM, SINGLE	5	
EROSION CONTROL																	
						62		62		601	11000	62	SY		RIPRAP, TYPE D		
						2		2		601	21050	2	SY		TIED CONCRETE BLOCK MAT, TYPE 1		
						146		146		601	32110	146	CY		ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER		
	5							5		601	32200	5	CY		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
	2							2		659	00100	2	EACH		SOIL ANALYSIS TEST		
	370							370		659	00300	370	CY		TOPSOIL		
	3,333							3,333		659	10000	3,333	SY		SEEDING AND MULCHING		
	167							167		659	14000	167	SY		REPAIR SEEDING AND MULCHING		
	167							167		659	15000	167	SY		INTER-SEEDING		
	0.46							0.46		659	20000	0.46	TON		COMMERCIAL FERTILIZER		
	0.69							0.69		659	31000	0.69	ACRE		LIME		
	18							18		659	35000	18	MGAL		WATER		
	7							7		659	40000	7	MSF		MOWING		
	LS							LS		832	15000	LS			STORM WATER POLLUTION PREVENTION PLAN		
	LS							LS		832	15002	LS			STORM WATER POLLUTION PREVENTION INSPECTIONS		
	LS							LS		832	15010	LS			STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE		
	15,000							15,000		832	30000	15,000	EACH		EROSION CONTROL		
						1,635		1,635		836	10000	1,635	SY		SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1		

GENERAL SUMMARY

MED - 94 - 7.66

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ITEM 605 - AGGREGATE DRAINS			
STATION	SHEET NO.	SIDE	ITEM 605 - AGGREGATE DRAINS
			FT
396+25	15	RT	10
396+75	15	RT	10
397+25	15	RT	10
397+75	15	RT	10
398+25	15	RT	10
398+75	15	RT	10
399+25	16	RT	10
399+75	16	RT	10
400+25	16	RT	10
400+75	16	RT	10
TOTAL CARRIED TO GENERAL SUMMARY			100

ITEM 204 - PROOF ROLLING	
S.R 94	773 SY
DRIVEWAYS	181 SY
TOTAL	954 SY
ITEM 204- PROOF ROLLING	954 SY X 1 HR/ 2,000 SY = 1 HR
TOTAL CARRIED TO GENERAL SUMMARY = 1 HR	

MED-94-7.66 CROSS SECTIONS EARTHWORK AND SEEDING QUANTITIES										
STATION		SHEET NO.	ITEM 203 EMBANKMENT	ITEM 203 EXCAVATION	ITEM 204 EXCAVATION OF SUBGRADE	ITEM 204 GRANULAR MATERIAL, TYPE B				ITEM 659 SEEDING AND MULCHING
FROM	TO									
			CU YD	CU YD	CU YD	CU YD				SQ YD
395+50	396+50	20	124	102						385
397+00	398+00	21	376	407						605
398+50	399+50	22	322	303						572
400+00	401+00	23	274	212						575
401+50	402+50	24	144	208						553
403+00	404+00	25	207	219						567
404+50	405+50	26	272	103	108	108				478
SUBTOTAL (ITEM 659)										3,735
DEDUCT FOR ITEM 601										-199
DEDUCT FOR DRIVES										-203
TOTAL USED FOR EROSION CONTROL CALCULATIONS										3,333
TOTAL CARRIED TO GENERAL SUMMARY			1,719	1,554	108	108				

ITEM 659 - EROSION CONTROL QUANTITIES		
SOIL ANALYSIS TESTS		2 EACH
TOPSOIL	$\frac{111 \text{ CU YD}}{1000 \text{ SQ YD OF SEEDING}} \times 3,333 \text{ SQ YD}$	370 CU YD
COMMERCIAL FERTILIZER	$\frac{1 \text{ TON}}{7410 \text{ SQ YD OF SEEDING}} \times 3,333 \text{ SQ YD} + \frac{1 \text{ TON}}{11,110 \text{ SQ YD OF INTER-SEEDING}} \times 167 \text{ SQ YD}$	0.46 TON
LIME	$\frac{9}{43560} \times 3,333 \text{ SQ YD}$	0.69 ACRE
REPAIR SEEDING AND MULCHING	$\frac{5}{100} \times 3,333 \text{ SQ YD}$	167 SQ YD
INTER-SEEDING	$\frac{5}{100} \times 3,333 \text{ SQ YD}$	167 SQ YD
WATER	$\frac{2 \times .0027 \text{ M GAL}}{1 \text{ SQ YD OF SEEDING}} \times 3,333 \text{ SQ YD} + \frac{.0027 \text{ M GAL}}{1 \text{ SQ YD OF INTER-SEEDING}} \times 167 \text{ SQ YD}$	18 M GAL
MOWING	$0.25 \times 3,333 \text{ SQ YD} \times \frac{9 \text{ SQ FT}}{1 \text{ SQ YD}} \times \frac{1 \text{ M SQ FT}}{1,000 \text{ SQ FT}}$	7 M SQ FT
QUANTITIES CARRIED TO GENERAL NOTES SHEET NO. 5		

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QUANTITY CALCULATIONS

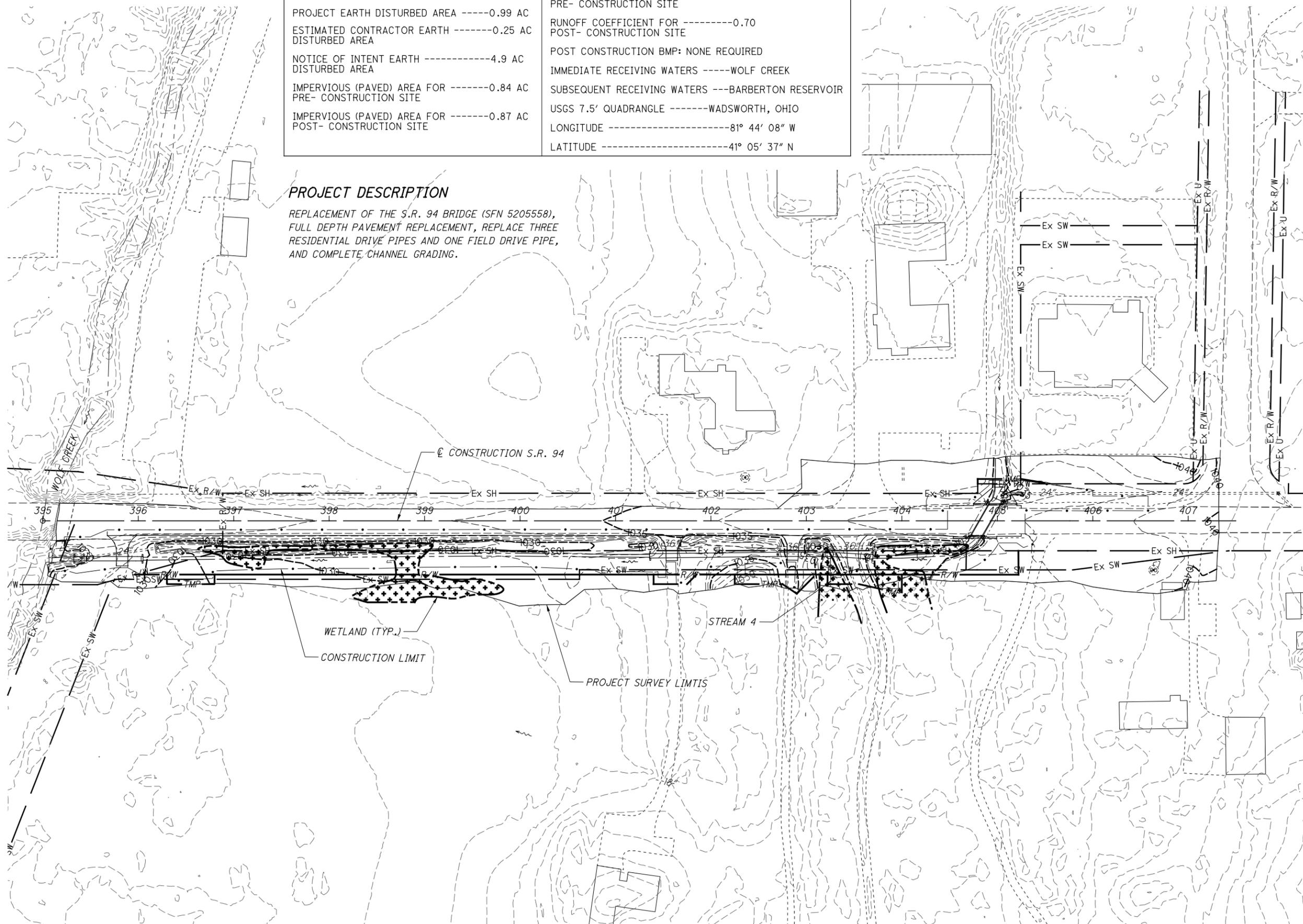
MED-94-7.66

PROJECT DATA

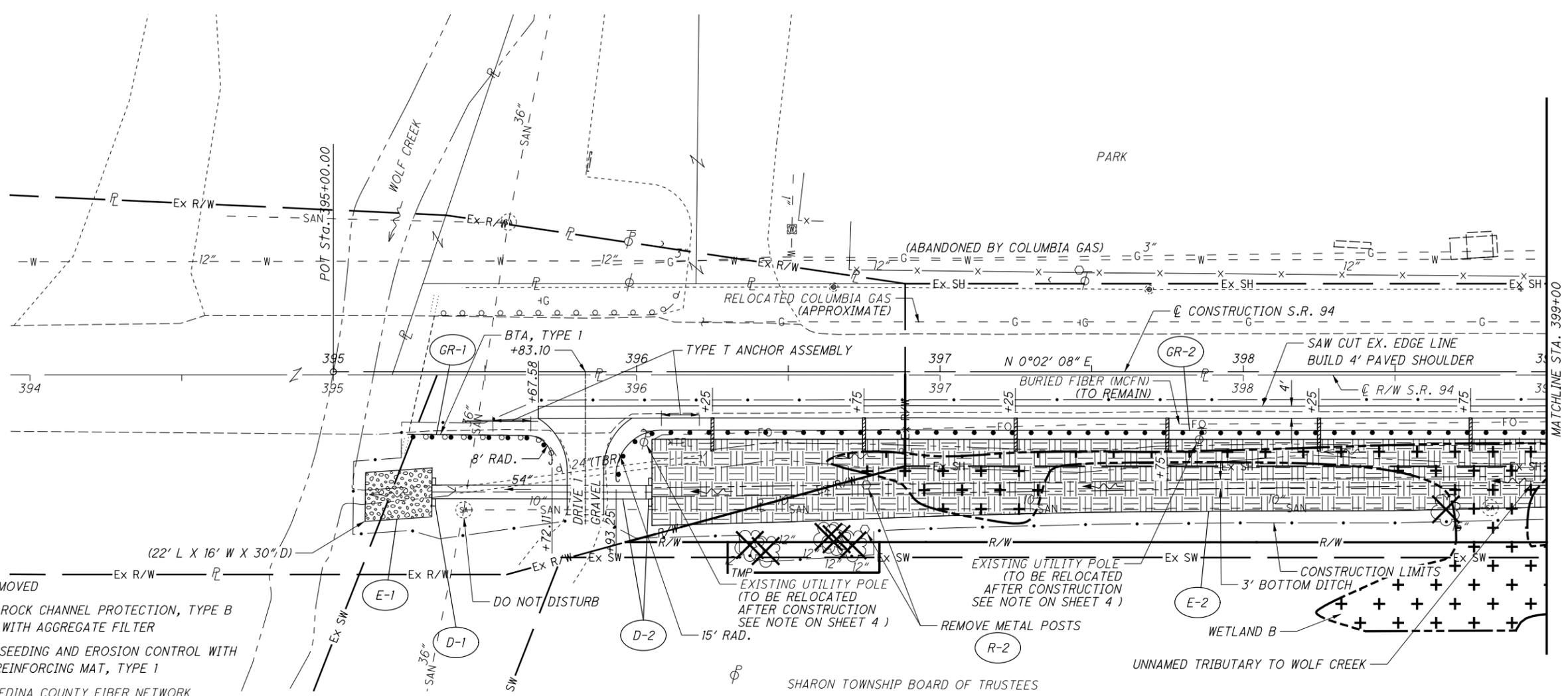
TOTAL AREA (RIGHT OF WAY) -----	1.78 AC	RUNOFF COEFFICIENT FOR PRE- CONSTRUCTION SITE -----	0.69
PROJECT EARTH DISTURBED AREA -----	0.99 AC	RUNOFF COEFFICIENT FOR POST- CONSTRUCTION SITE -----	0.70
ESTIMATED CONTRACTOR EARTH DISTURBED AREA -----	0.25 AC	POST CONSTRUCTION BMP: NONE REQUIRED	
NOTICE OF INTENT EARTH DISTURBED AREA -----	4.9 AC	IMMEDIATE RECEIVING WATERS -----	WOLF CREEK
IMPERVIOUS (PAVED) AREA FOR PRE- CONSTRUCTION SITE -----	0.84 AC	SUBSEQUENT RECEIVING WATERS ---	BARBERTON RESERVOIR
IMPERVIOUS (PAVED) AREA FOR POST- CONSTRUCTION SITE -----	0.87 AC	USGS 7.5' QUADRANGLE -----	WADSWORTH, OHIO
		LONGITUDE -----	81° 44' 08" W
		LATITUDE -----	41° 05' 37" N

PROJECT DESCRIPTION

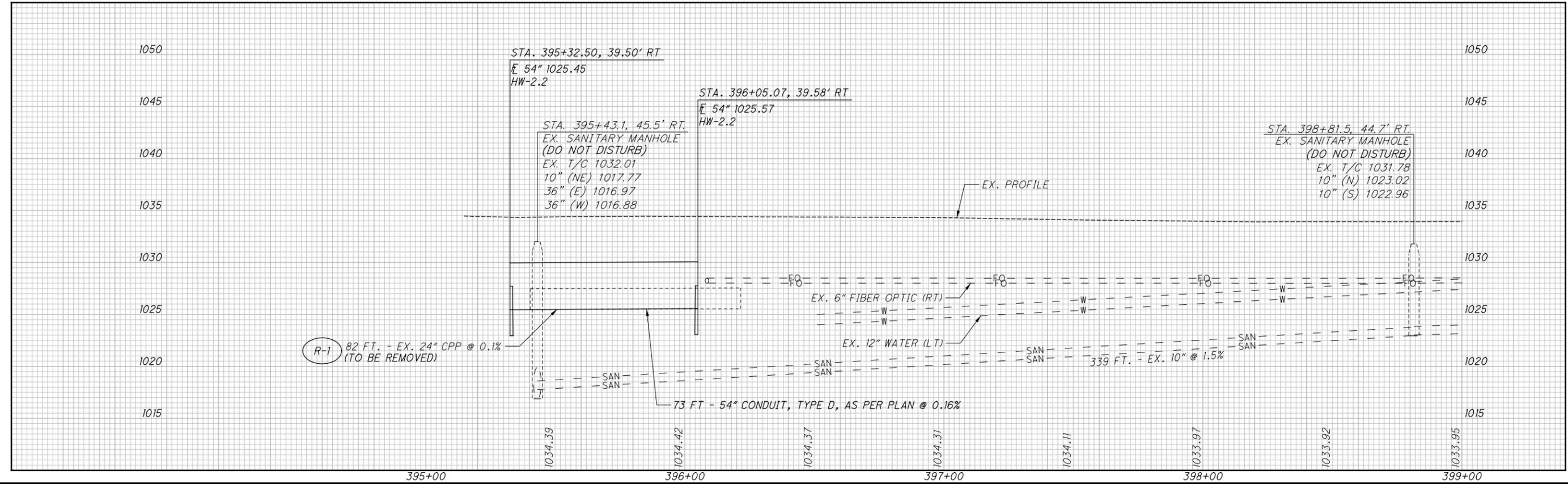
REPLACEMENT OF THE S.R. 94 BRIDGE (SFN 5205558), FULL DEPTH PAVEMENT REPLACEMENT, REPLACE THREE RESIDENTIAL DRIVE PIPES AND ONE FIELD DRIVE PIPE, AND COMPLETE CHANNEL GRADING.



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- (TBR) = TO BE REMOVED
- ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1
- (MCFN) MEDINA COUNTY FIBER NETWORK



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PLAN AND PROFILE
STA. 394+00 TO STA 399+00

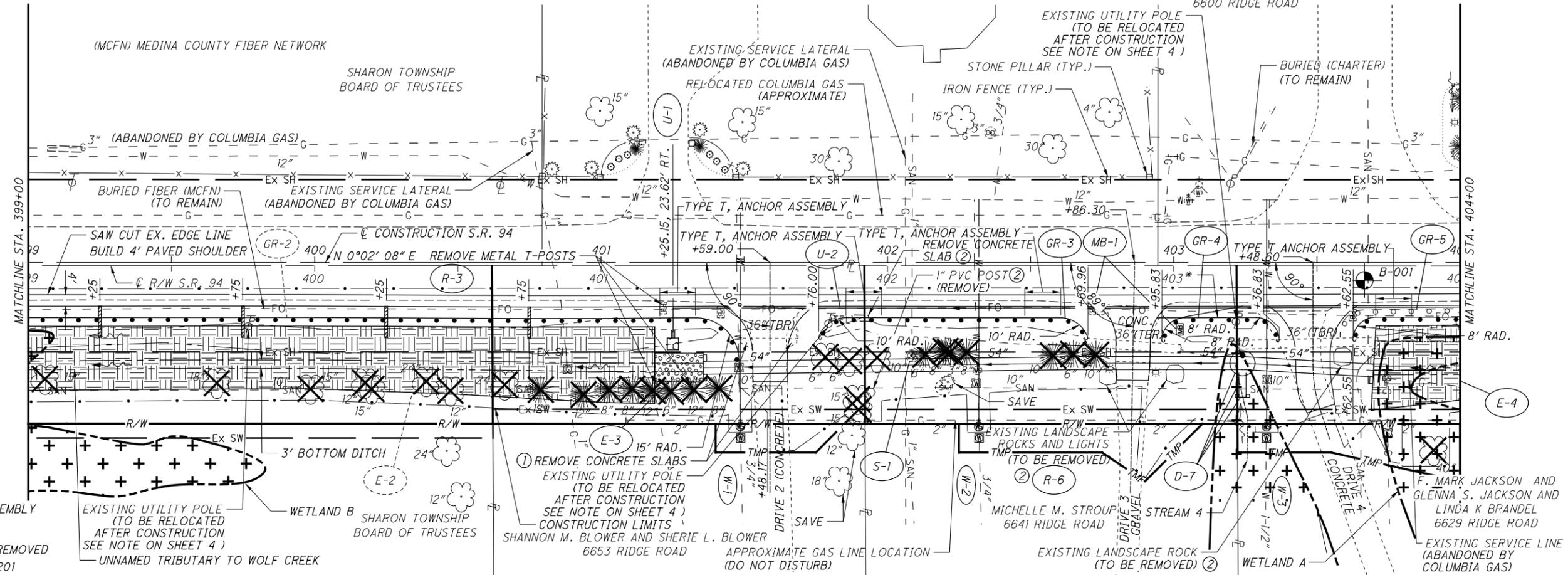
- ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER
- ITEM 836 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1

E-3 (17' L X 10' W X 30" D)

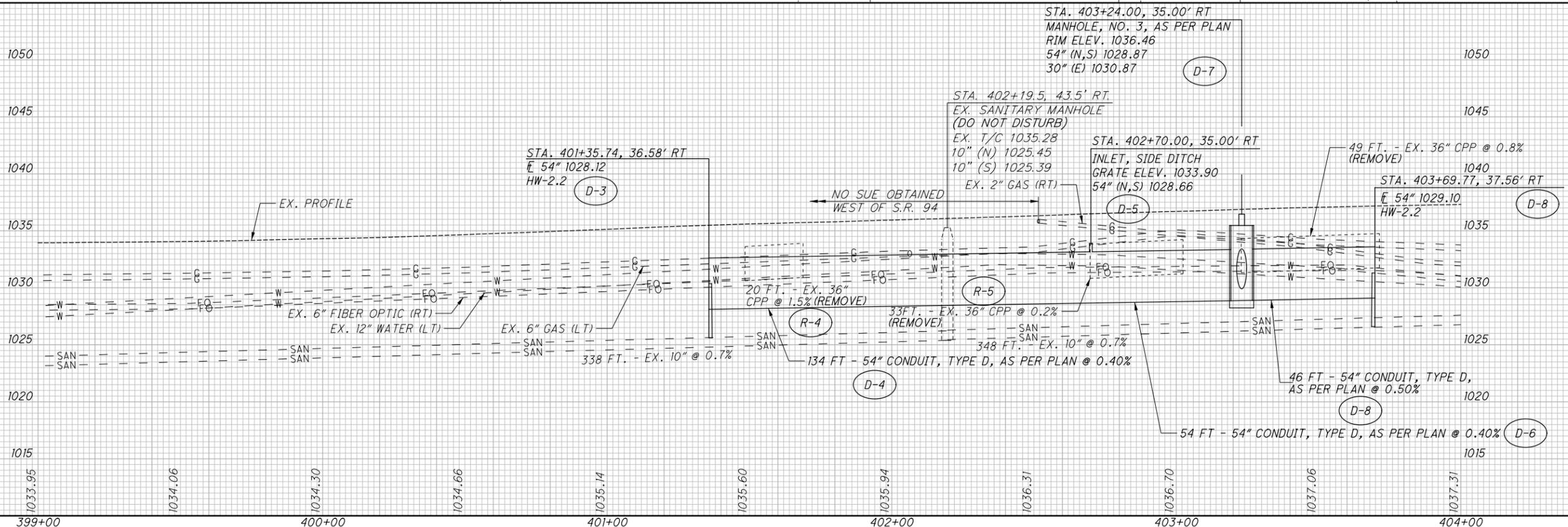
W-1 W-2 W-3 SERVICE STOPS, METERS, AND VAULTS RELOCATED BY MEDINA COUNTY

SCOTT A. MYERS AND LESLIE A. MYERS
6644 RIDGE ROAD

WOLF CREEK TRAIL, LLC, AN OHIO LIMITED LIABILITY COMPANY
6600 RIDGE ROAD



- * 2 TYPE T ANCHOR ASSEMBLY (TBR) = TO BE REMOVED
- ① INCIDENTAL TO PIPE REMOVED
- ② INCIDENTAL TO ITEM 201



PLAN AND PROFILE
STA. 399+00 TO STA 404+00

MED-94-7.66

16
49

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REF NO.	SHEET NO.	STATION		SIDE	202	202	202	202	202	202	202	606	606	606	606	606	606	638	690	
		FROM	TO		MAILBOX REMOVED EA	GUARDRAIL REMOVED FT	PIPE REMOVED, OVER 24" FT	PIPE REMOVED, 24" AND UNDER FT	REMOVAL MISC.: POST EA	VALVE BOX REMOVED EA	REMOVAL MISC.: LANDSCAPE LIGHT EA	GUARDRAIL, TYPE MGS, AS PER PLAN FT	GUARDRAIL, TYPE MGS FT	ANCHOR ASSEMBLY, MGS TYPE T EA	ANCHOR ASSEMBLY, MGS TYPE E EA	ANCHOR ASSEMBLY, MGS TYPE B EA	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 EA	SPECIAL - 1" POLYETHYLENE WATER SERVICE CONNECTION FT	SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE EA	
GR-1	15	395+24.49	395+72.11	RT		58							12.50	1		1				
GR-2	15,16	395+93.25	401+48.17	RT									550.00	2						
GR-3	16	401+76.00	402+69.96	RT									75.00	2						
GR-4	16	402+95.83	403+36.83	RT									25.00	2						
GR-5	16,17	403+62.55	405+31.54	RT		183						43.75	106.25	2						
GR-6	17	404+29.49	406+53.96	LT		164						43.75	118.75		1	1				
MB-1	16	402+72	403+02	RT	1														1	
R-1	15	395+40	396+21	RT				82												
R-2	15		396+75	RT					2											
R-3	16	401+19	401+32	RT					3											
R-4	16	401+48	401+69	RT																
R-5	16	402+70	403+02	RT																
R-6	16	402+78	402+94	RT																
R-7	16	403+23	403+71	RT																
W-1	16		401+49	RT															80	
W-2	16		402+32	RT															80	
W-3	16		403+33	RT															79	
TOTALS CARRIED TO GENERAL SUMMARY					1	405	102	82	5	3	2		87.5	887.5	9	1	1	1	239	1

ESTIMATED QUANTITIES

CALCULATED
OOS
CHECKED
JLN

MED -94-7.66

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REF NO.	SHEET NO.	STATION		SIDE	601	601	601	602	605	605	611	611	611	611	611	611	611	836	BENDS AND BRANCHES FOR INFORMATION ONLY			
		FROM	TO		TIED CONCRETE BLOCK MAT, TYPE I	RIPRAP, TYPE D	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER	CONCRETE MASONRY	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" BASE PIPE UNDERDRAINS	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	24" CONDUIT, TYPE C	30" CONDUIT, TYPE C	54" CONDUIT, TYPE D, AS PER PLAN	PRECAST REINFORCED CONCRETE OUTLET	INLET, SIDE DITCH	MANHOLE, NO. 3, AS PER PLAN	DRAINAGE STRUCTURE, MISC.: CLEANOUT RELOCATED	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE I	6" X 90° BEND	6" X 6" TEE	
					SY	SY	CY	CY	FT	FT	FT	FT	FT	FT	EA	EA	EA	EA	SY	EA	EA	
D-1	15	395+32.50	396+05.07	RT				1.32														
D-2	15	395+32.50	396+05.07	RT				1.32							73							
D-3	16	401+35.74	402+70.00	RT				1.32														
D-4	16	401+35.74	402+70.00	RT																		
D-5	16	402+70.00	403+24.00	RT												1						
D-6	16	402+70.00	403+24.00	RT																		
D-7	16	403+24.00	403+69.77	RT				0.60														
D-8	16	403+24.00	403+69.77	RT				1.32														
D-9	17	405+09.17	405+26.75	LT										17								
E-1	15	395+11	395+33	RT																		
E-2	15,16	396+05	401+19	RT																		
E-3	16	401+19	401+36	RT																	1374	
E-4	16,17	403+70	404+53	RT																	261	
E-5	17	404+53	404+98	RT																		
E-6	17	404+77	405+19	LT																		
S-1	16	402+09		RT																	1	
U-1	16	401+25		RT	2						10				1						1	
U-2	16,17	401+25	404+52	RT					327													
U-3	17	404+52	404+69	RT																		
U-4	17	404+52	404+86	LT/RT																	1	
U-5	17	404+52	404+86	LT																		
TOTALS CARRIED TO GENERAL SUMMARY					2	62	146	5.88	327	80	10	17	12	307	1	1	1	1				1635

ESTIMATED QUANTITIES

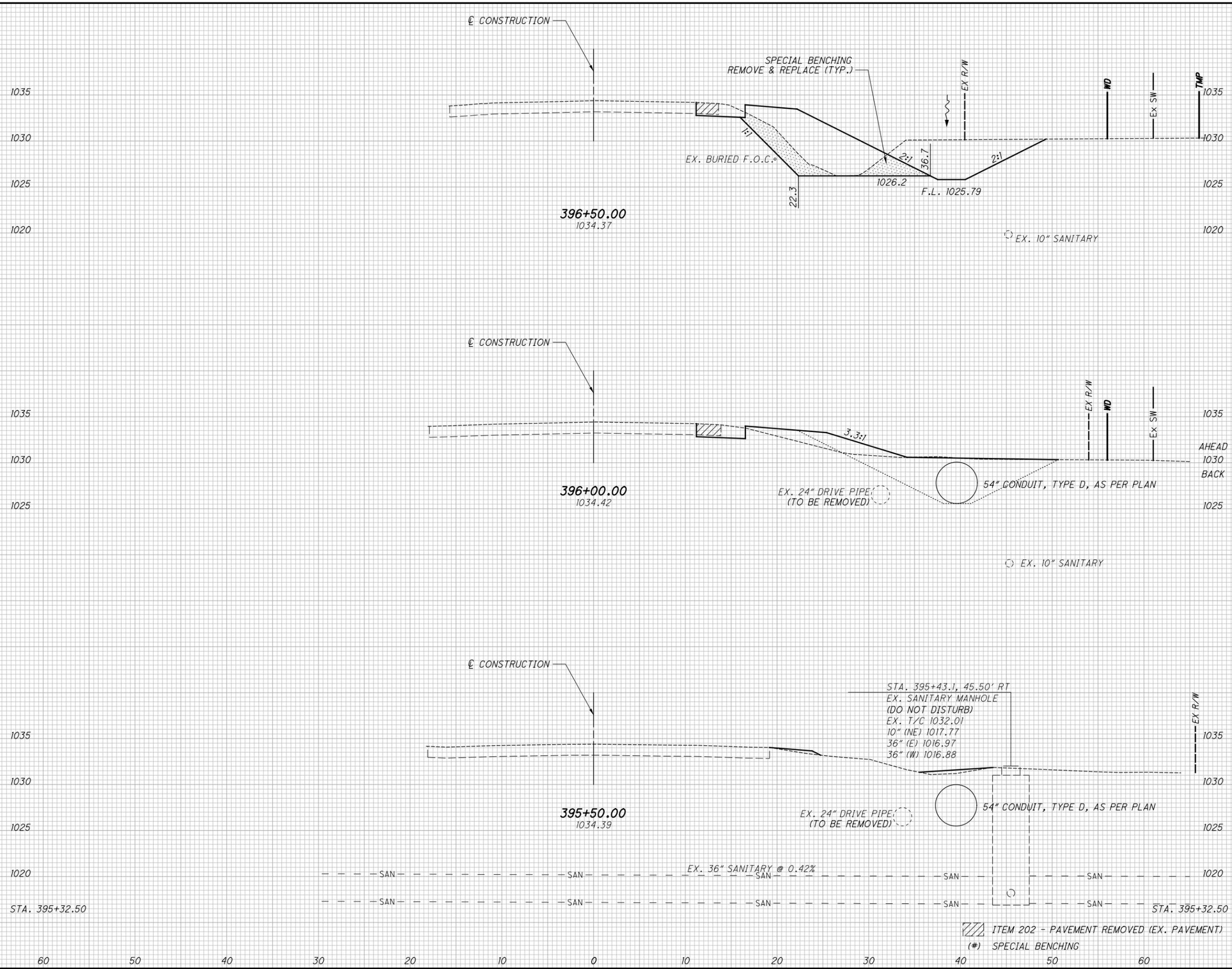
MED -94-7.66

CALCULATED
OOS
CHECKED
JLN

19
49

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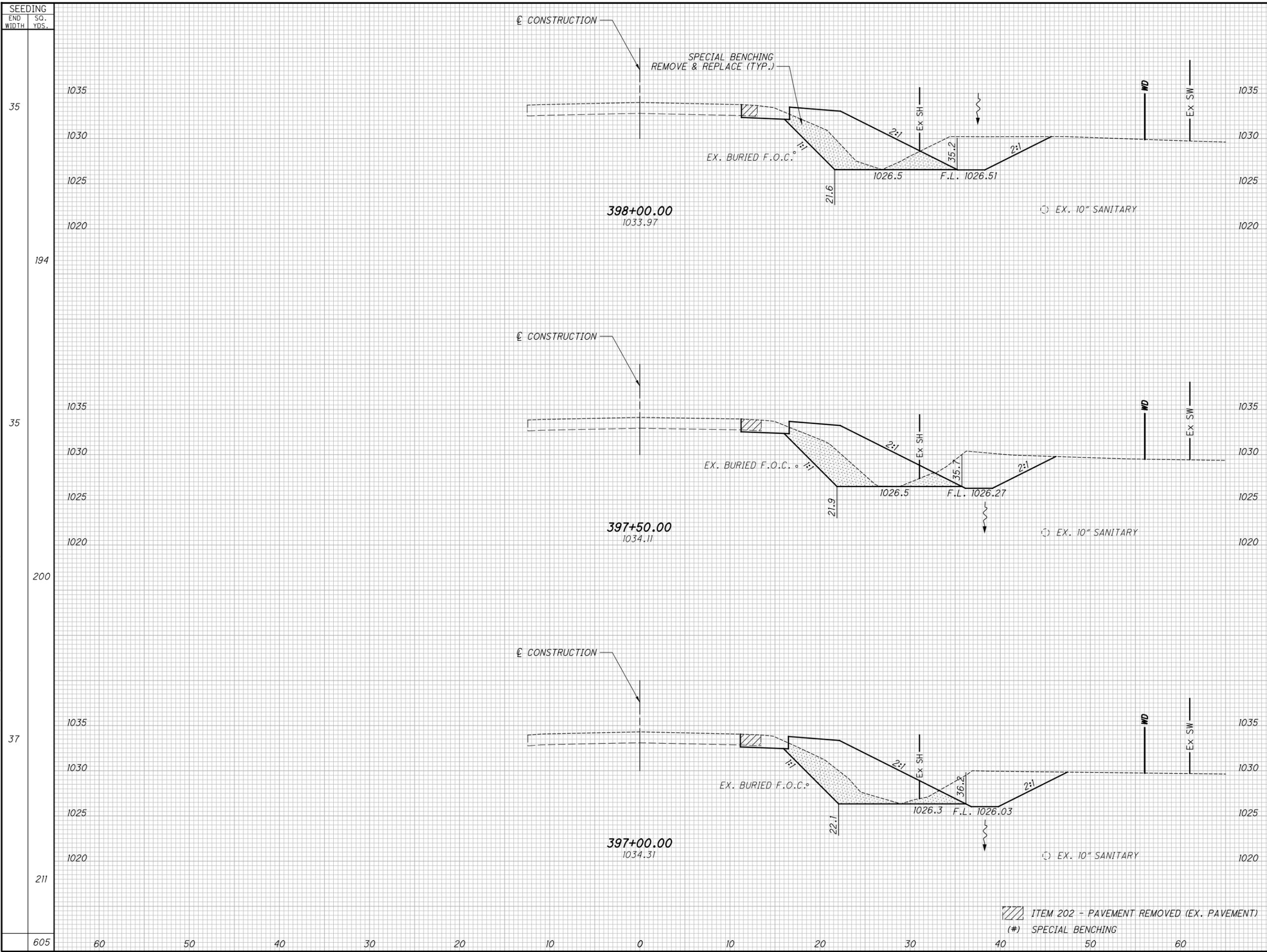
SEEDING	END SO.	
	WIDTH	YDS.
39	60	60
214	50	50
38	60	60
144	40	40
14	60	60
27	50	50
14	60	60
385	60	60



END AREA	VOLUME		CALCULATED	OOS	CHECKED	JLN
	CUT	FILL				
50	53					
(26)	(26)					
	106	56				
	(24)	(24)				
64	7					
4	19					
	4	20				
0	3					
0	2					
0	3					
	124	102				

CROSS SECTIONS
STA. 395+50.00 TO STA. 396+50.00
MED-94-7.66
20
49

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END STA.	AREA		VOLUME		CALCULATED	CHECKED	JLN
	CUT	FILL	CUT	FILL			
37	37 (28)	40 (28)	68 (53)	76 (53)			
36	36 (29)	42 (29)	69 (54)	81 (54)			
38	38 (29)	46 (29)	81 (51)	92 (51)			
TOTAL			376	407			

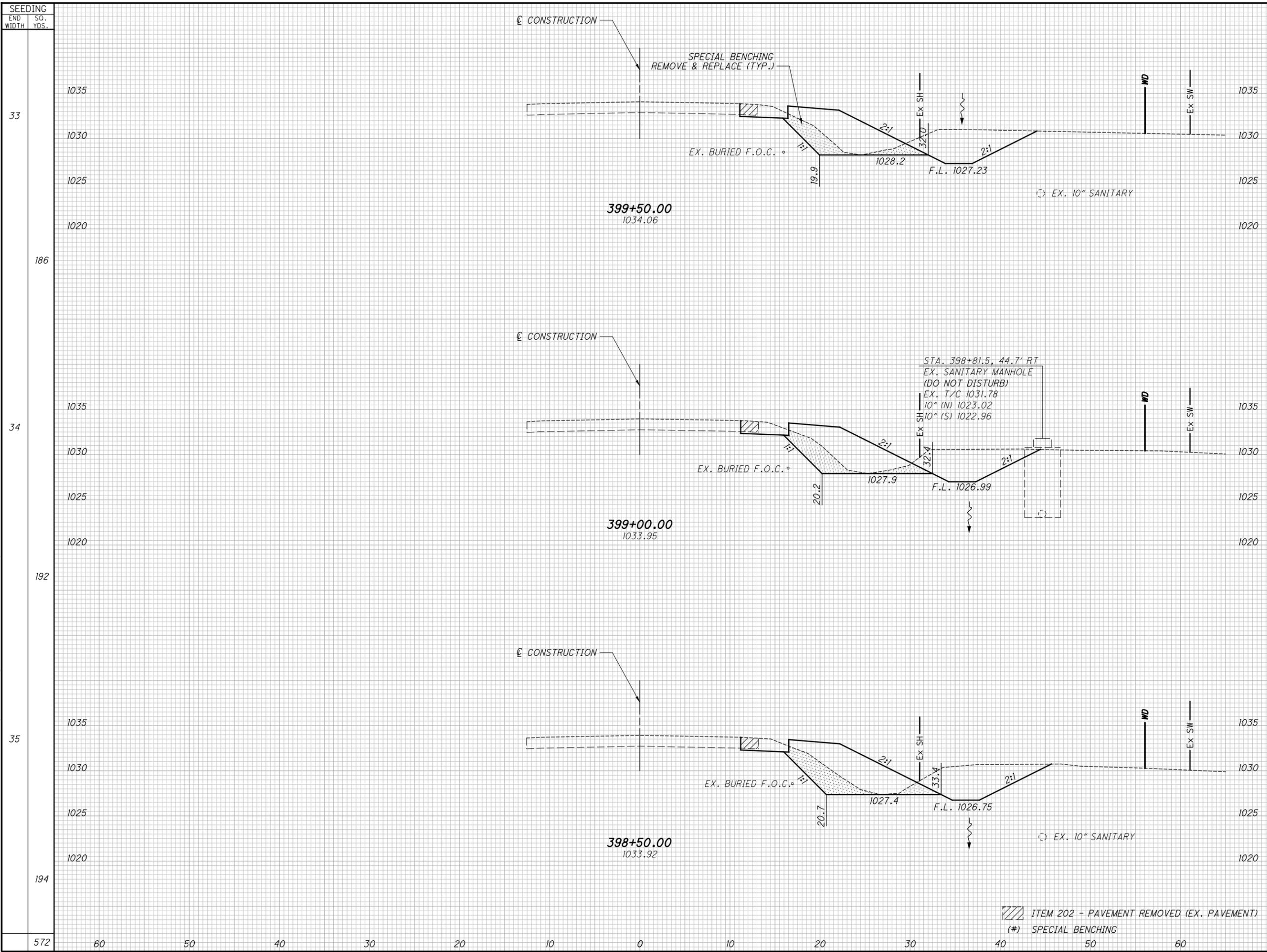
CROSS SECTIONS
STA. 397+00.00 TO STA. 398+00.00

MED-94-7.66

21
49

ITEM 202 - PAVEMENT REMOVED (EX. PAVEMENT)
 SPECIAL BENCHING

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SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	JLN
	END WIDTH	SO. YDS.	CUT	FILL			
33			38	32			
			(16)	(16)			
186					69	60	
					(31)	(31)	
34			37	33			
			(17)	(17)			
192					71	63	
					(35)	(35)	
35			40	35			
			(21)	(21)			
194					71	69	
					(45)	(45)	
572	60				322	303	

CROSS SECTIONS
STA. 398+50.00 TO STA. 399+50.00

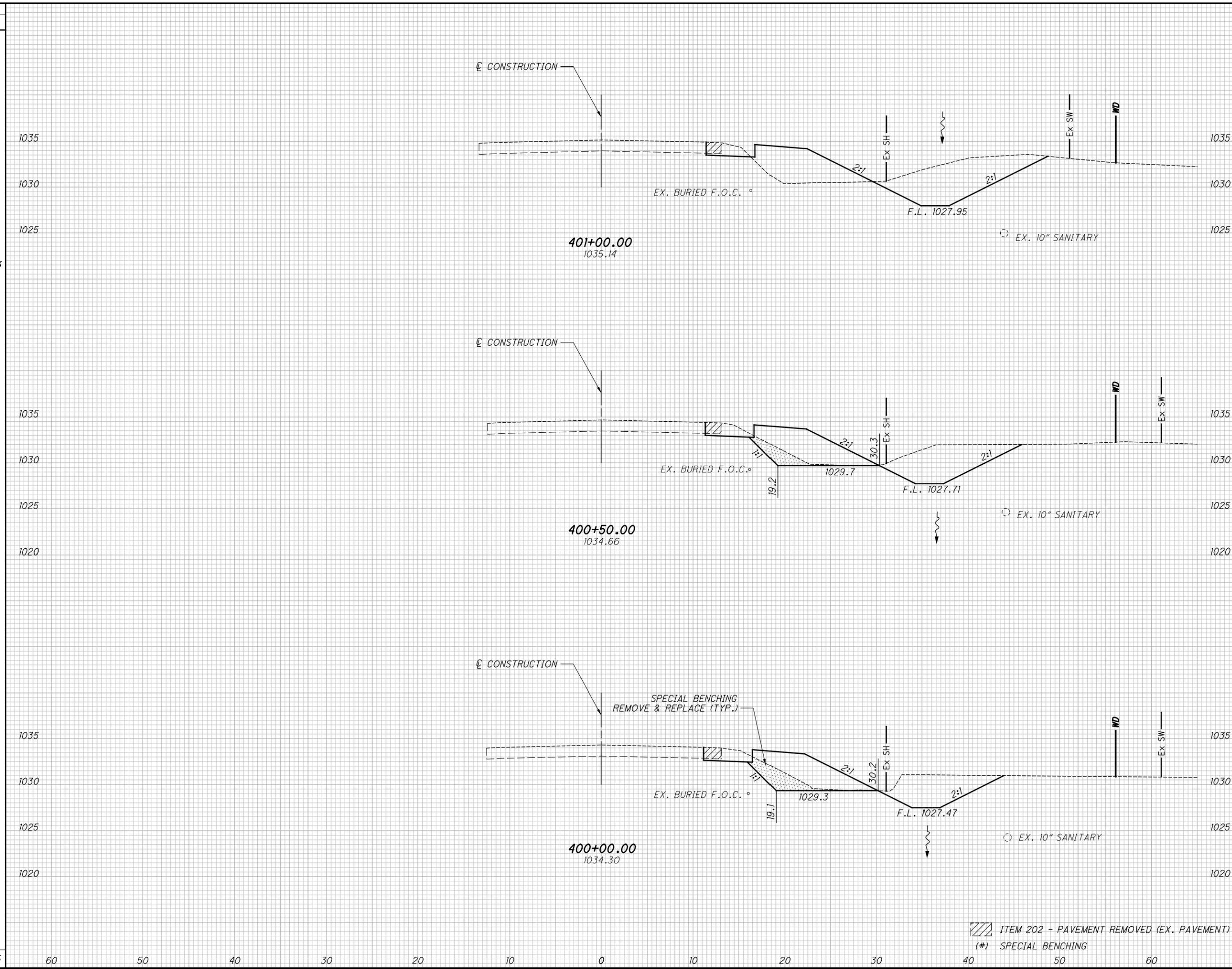
MED-94-7.66

22
 49

ITEM 202 - PAVEMENT REMOVED (EX. PAVEMENT)
 (#) SPECIAL BENCHING

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SEEDING	
END WIDTH	SO. YDS.
38	203
35	189
33	183
575	60
	50
	40
	30
	20
	10
	0
	10
	20
	30
	40
	50
	60



END AREA	VOLUME	CALCULATED		CHECKED	JLN
		CUT	FILL		
54	33	88 (7)	57 (7)		
41 (8)	29 (8)	69 (18)	51 (18)		
34 (11)	26 (11)	67 (25)	54 (25)		
		274	212		

CROSS SECTIONS
STA. 400+00.00 TO STA. 401+00.00

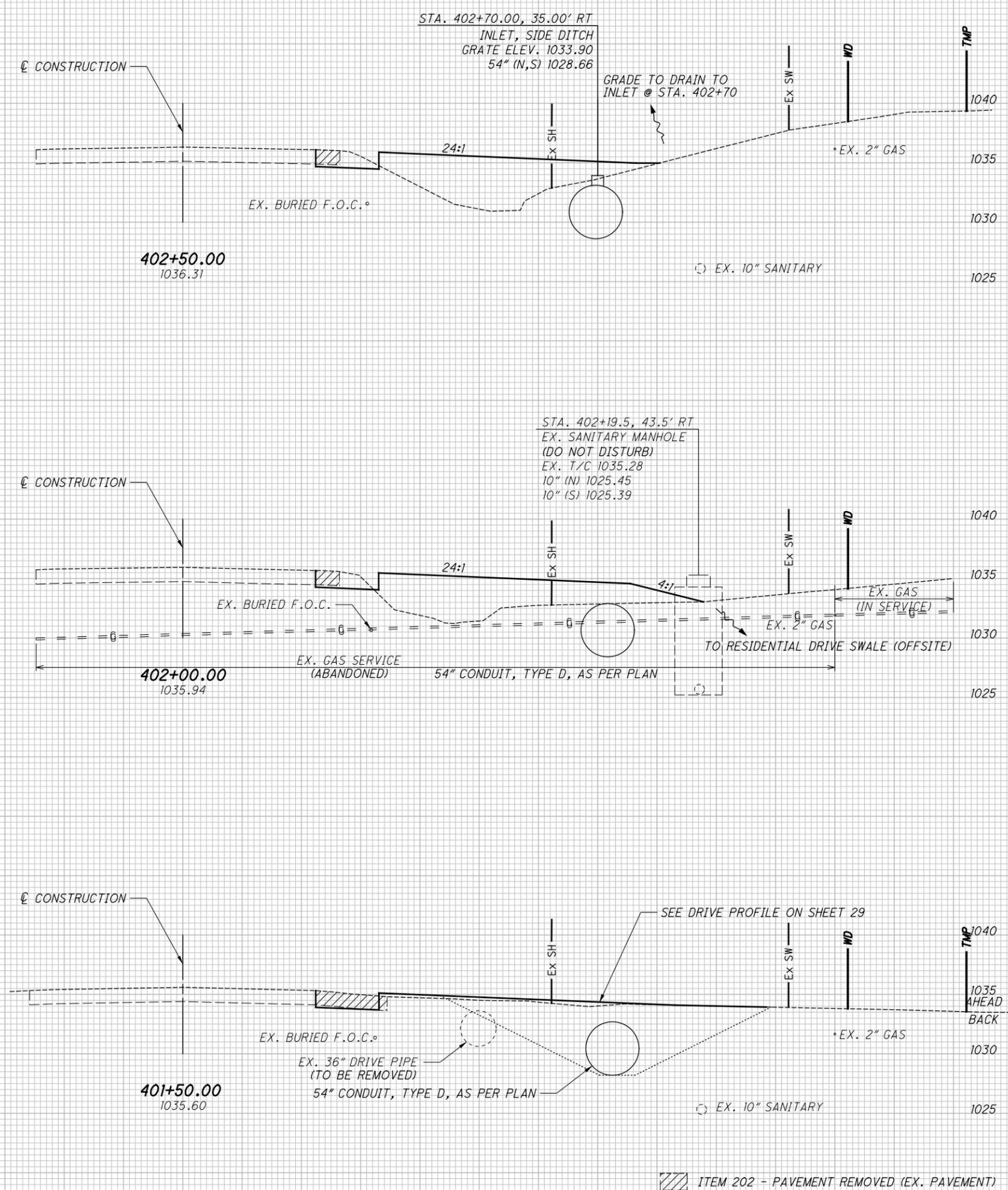
MED-94-7.66

23
49

ITEM 202 - PAVEMENT REMOVED (EX. PAVEMENT)
(*) SPECIAL BENCHING

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SEEDING	
END WIDTH	SO. YDS.
27	161
31	186
36	206
553	60
	50
	40
	30
	20
	10
	0
	10
	20
	30
	40
	50
	60

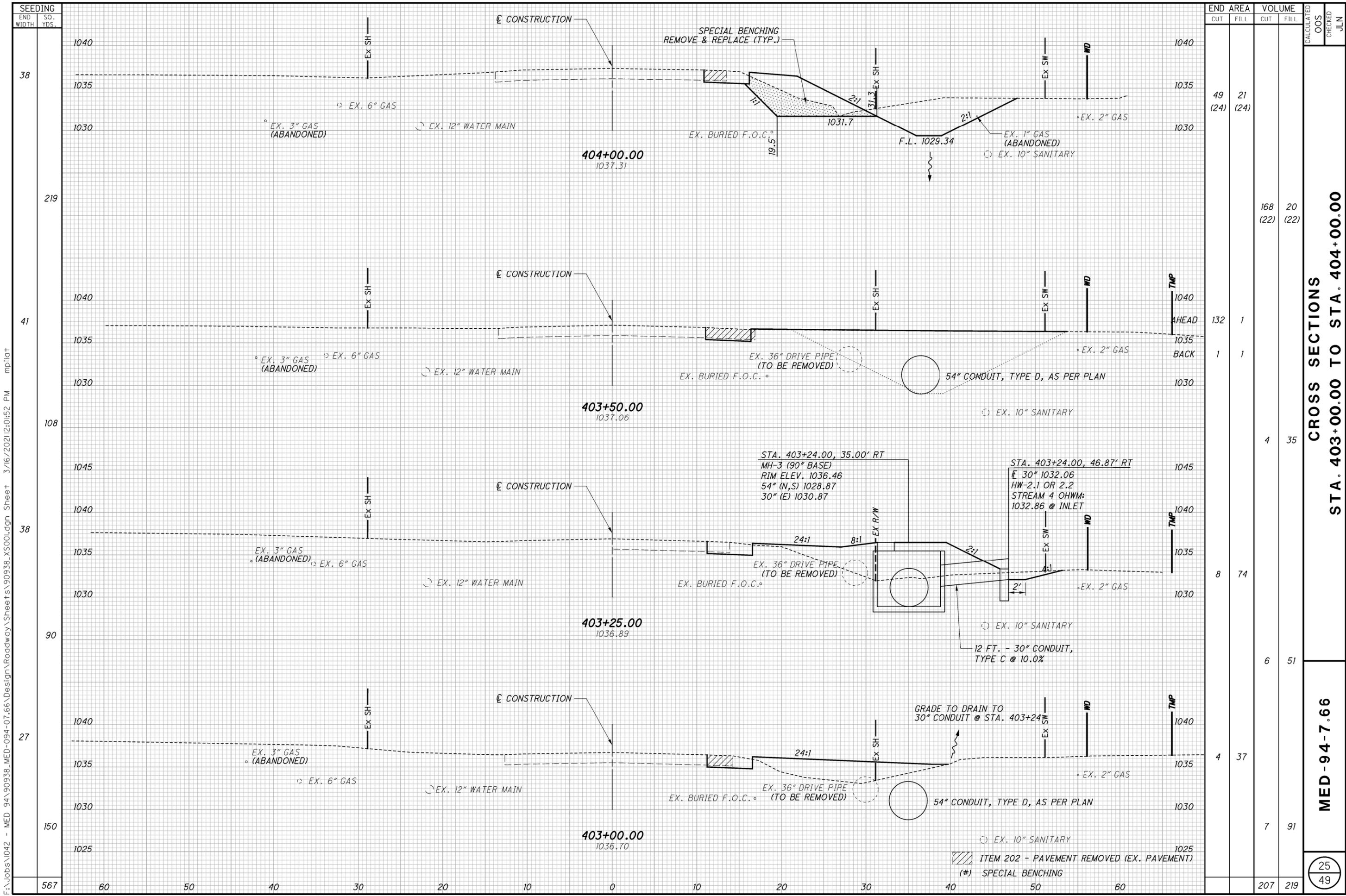


END AREA		VOLUME		CALCULATED OOS CHECKED JLN
CUT	FILL	CUT	FILL	
4	61			
		6	114	
3	62			
		4	63	
1	6			
91	1			
		134	31	
		144	208	

CROSS SECTIONS
STA. 401+50.00 TO STA. 402+50.00

MED-94-7.66

24
 49



**CROSS SECTIONS
STA. 403+00.00 TO STA. 404+00.00**

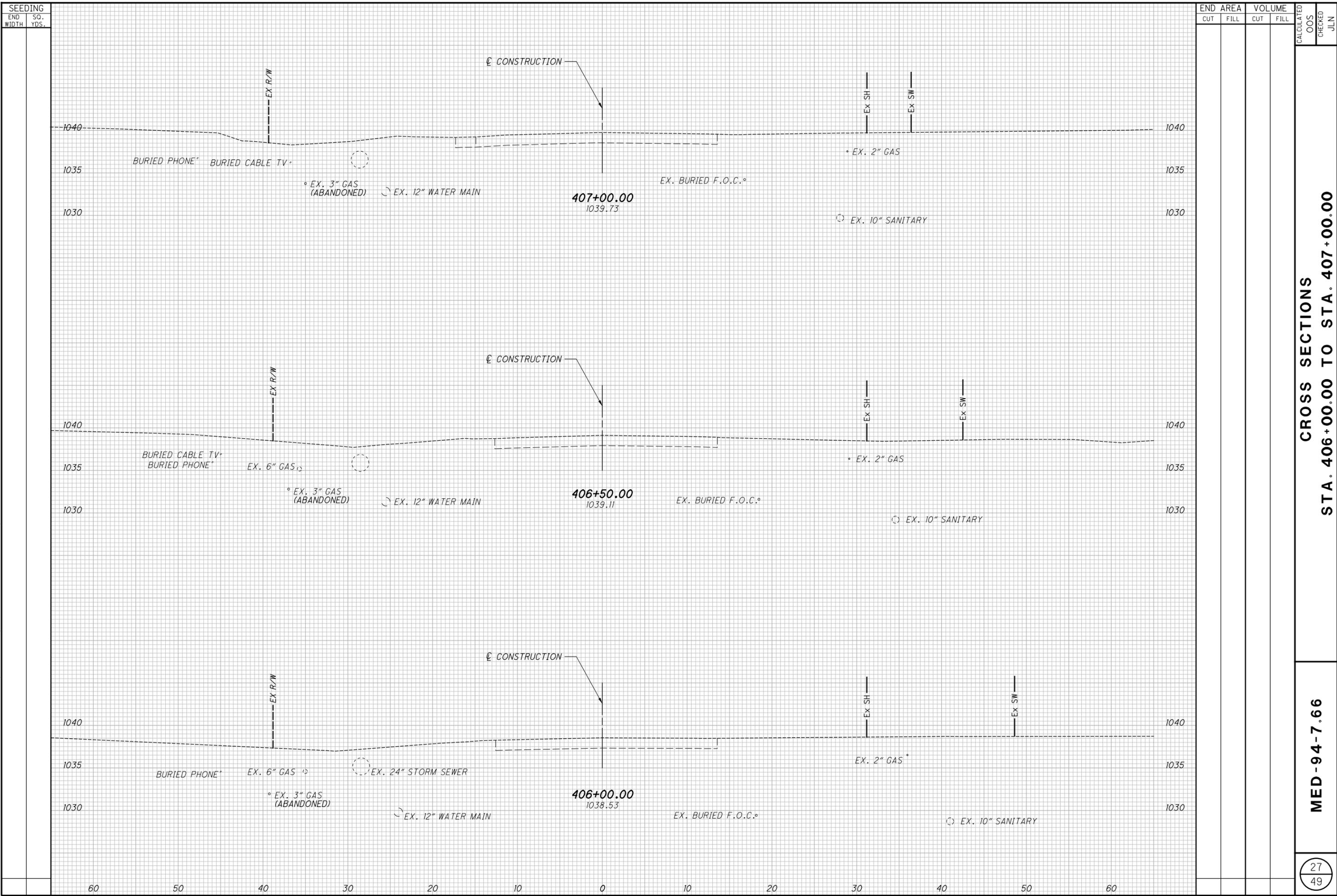
MED-94-7.66

25
49

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SEEDING	END WIDTH	SO. YDS.	40	30	20	10	0	10	20	30	40	50	60	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	207	219
---------	-----------	----------	----	----	----	----	---	----	----	----	----	----	----	--------------	---------------	------------	-------------	-----	-----

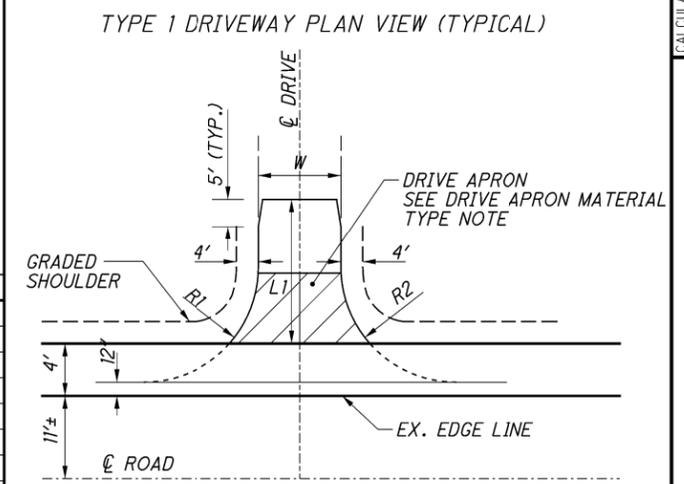
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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	OOS	CHECKED
CROSS SECTIONS							
STA. 406+00.00 TO STA. 407+00.00							
MED-94-7.66							
						27	49

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SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	APRON MATERIAL	DRIVE ANGLE	DRIVE LENGTH "L"	WIDTH "W"	R1 (LEFT SIDE RADIUS OF DRIVE LOOKING FROM C)	R2 (RIGHT SIDE RADIUS OF DRIVE LOOKING FROM C)	CADD GENERATED SURFACE AREA	202	204	304	441	452
												PAVEMENT REMOVED	SUBGRADE COMPACTION	6" AGGREGATE BASE	2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	6" NON-REINFORCED CONCRETE PAVEMENT
						DEG.	FT.	FT.	FT.	FT.	S.F.	S.Y.	S.Y.	C.Y.	C.Y.	S.Y.
15	DR-1	395+83.10	RT	FIELD	AGG.	90	31.73	12.0	20.0	20.0	475.08	38.7	48.0	8.8	1.84	
16	DR-2	401+59.00	RT	RES.	CONC.	90	26.28	12.0	20.0	20.0	410.79	40.5	40.8			45.6
16	DR-3	402+86.30	RT	RES.	CONC.	89	25.76	12.0	15.0	15.0	419.11	30.3	39.1			46.6
16	DR-4	403+48.60	RT	RES.	CONC.	90	36.13	12.0	20.0	20.0	523.05	52.8	53.3			58.1
SUBTOTAL												162.3	181.2	8.8	1.84	150.3
TOTALS CARRIED TO GENERAL SUMMARY												162	181	9	2	150



FIELD DRIVES:
 ITEM 304 - 6" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION

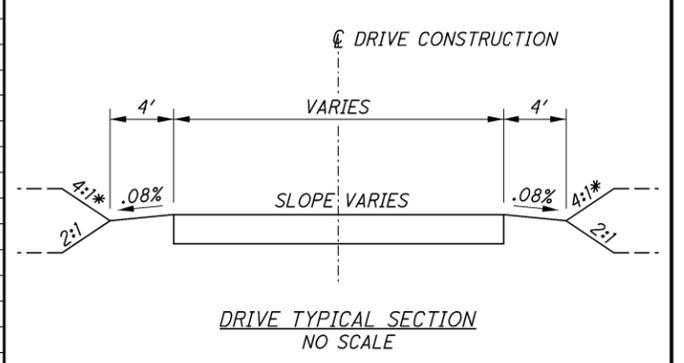
RESIDENTIAL DRIVES:
 AGGREGATE
 ITEM 304 - 8" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION

ASPHALT
 ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)
 ITEM 304 - 6" AGGREGATE BASE
 ITEM 204 - SUBGRADE COMPACTION

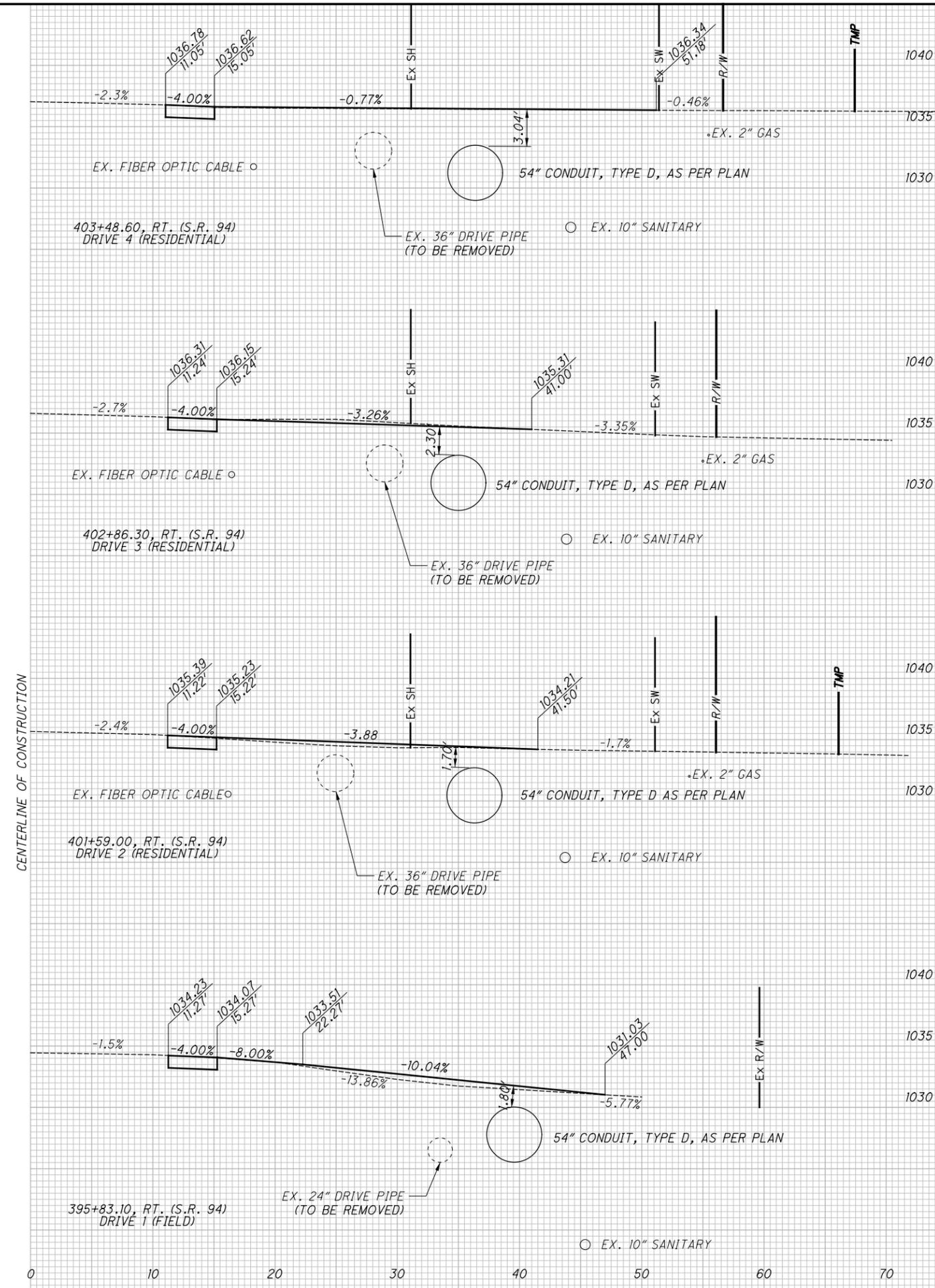
CONCRETE
 ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT
 ITEM 204 - SUBGRADE COMPACTION

DRIVE APRON MATERIAL TYPE
 CONCRETE - FOR CONCRETE DRIVES
 ASPHALT - FOR ASPHALT AND GRAVEL DRIVES

ON SKEWED DRIVES, APRON LENGTH SHALL BE SET AT A POINT ALONG THE CENTERLINE, PERPENDICULAR FROM THE FURTHEST EXTENT OF R1 OR R2 FARTHEST FROM THE ROAD.



* 4:1 SLOPES UNLESS OTHERWISE SHOWN IN PLANS. USE 2:1 SLOPES FOR CUTS GREATER THAN 5'.



CALCULATED
OOS
CHECKED
JLN

2.5
HORIZ & VERT
SCALE IN FEET

**DRIVE PROFILES
S.R. 94**

MED -94-7.66



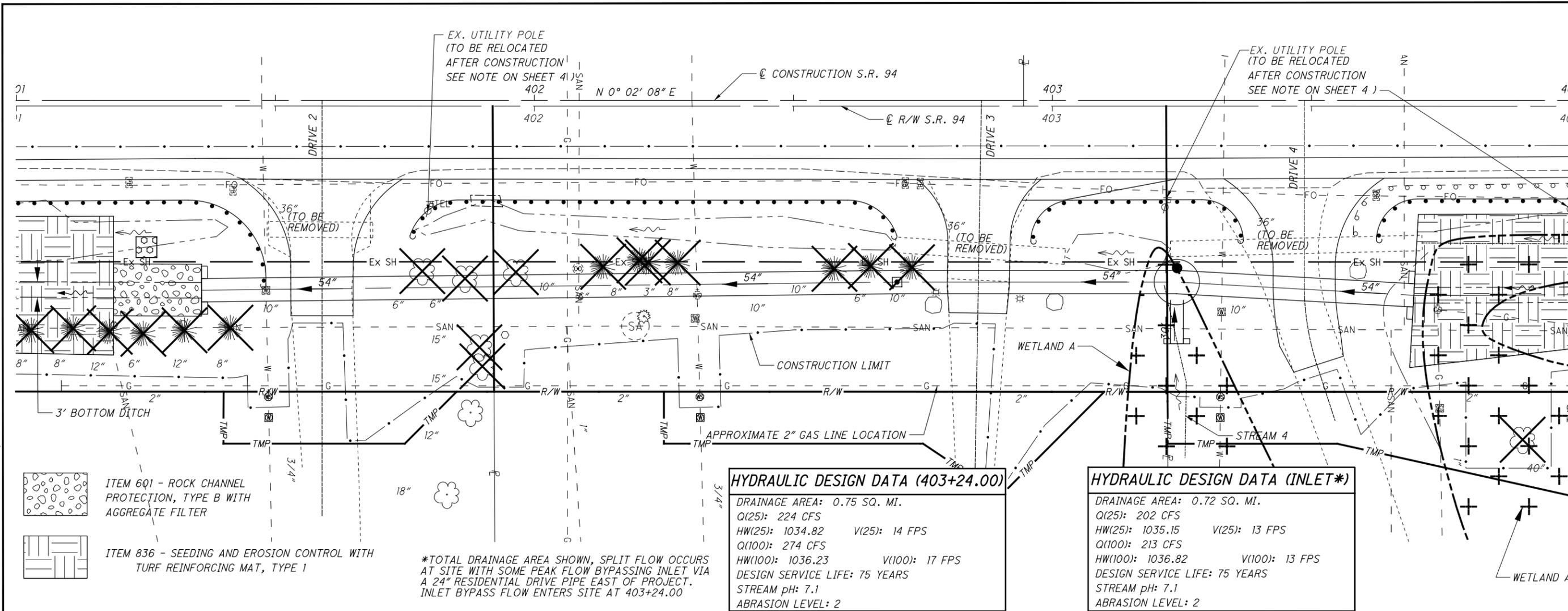
5
HORIZONTAL
SCALE IN FEET

CALCULATED
JUL
CHECKED
ARP

CULVERT DETAIL
STA. 401+34.40 TO STA. 403+72.52

MED-94-7.66

31
49

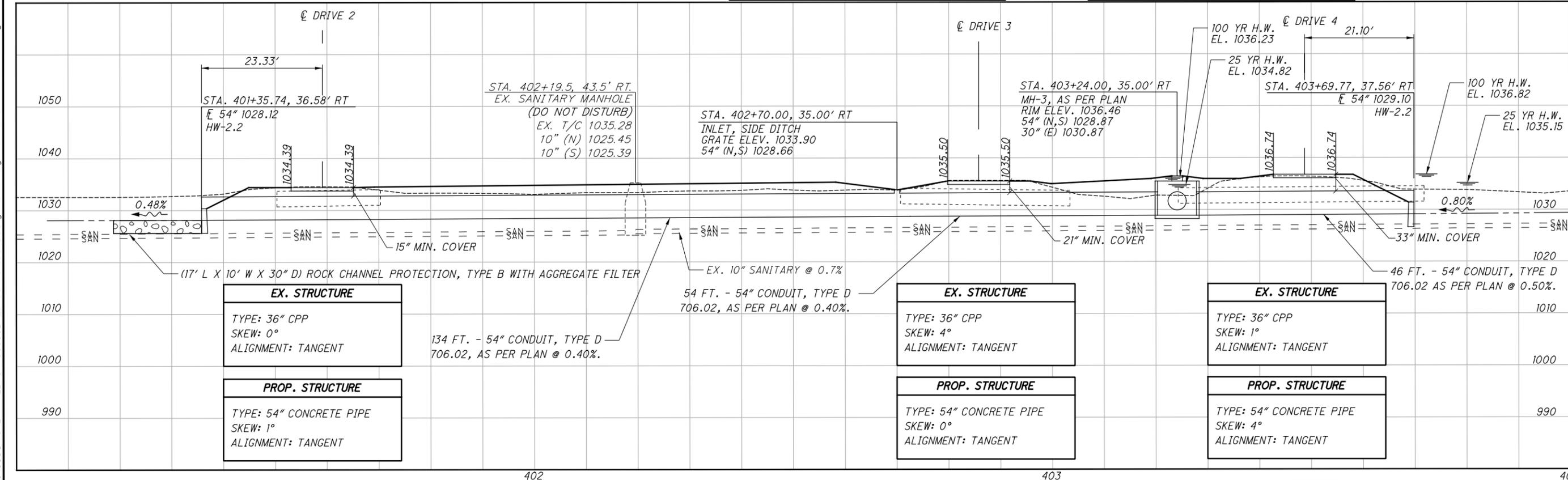


HYDRAULIC DESIGN DATA (403+24.00)

DRAINAGE AREA: 0.75 SQ. MI.
 Q(25): 224 CFS
 HW(25): 1034.82 V(25): 14 FPS
 Q(100): 274 CFS
 HW(100): 1036.23 V(100): 17 FPS
 DESIGN SERVICE LIFE: 75 YEARS
 STREAM pH: 7.1
 ABRASION LEVEL: 2

HYDRAULIC DESIGN DATA (INLET*)

DRAINAGE AREA: 0.72 SQ. MI.
 Q(25): 202 CFS
 HW(25): 1035.15 V(25): 13 FPS
 Q(100): 213 CFS
 HW(100): 1036.82 V(100): 13 FPS
 DESIGN SERVICE LIFE: 75 YEARS
 STREAM pH: 7.1
 ABRASION LEVEL: 2



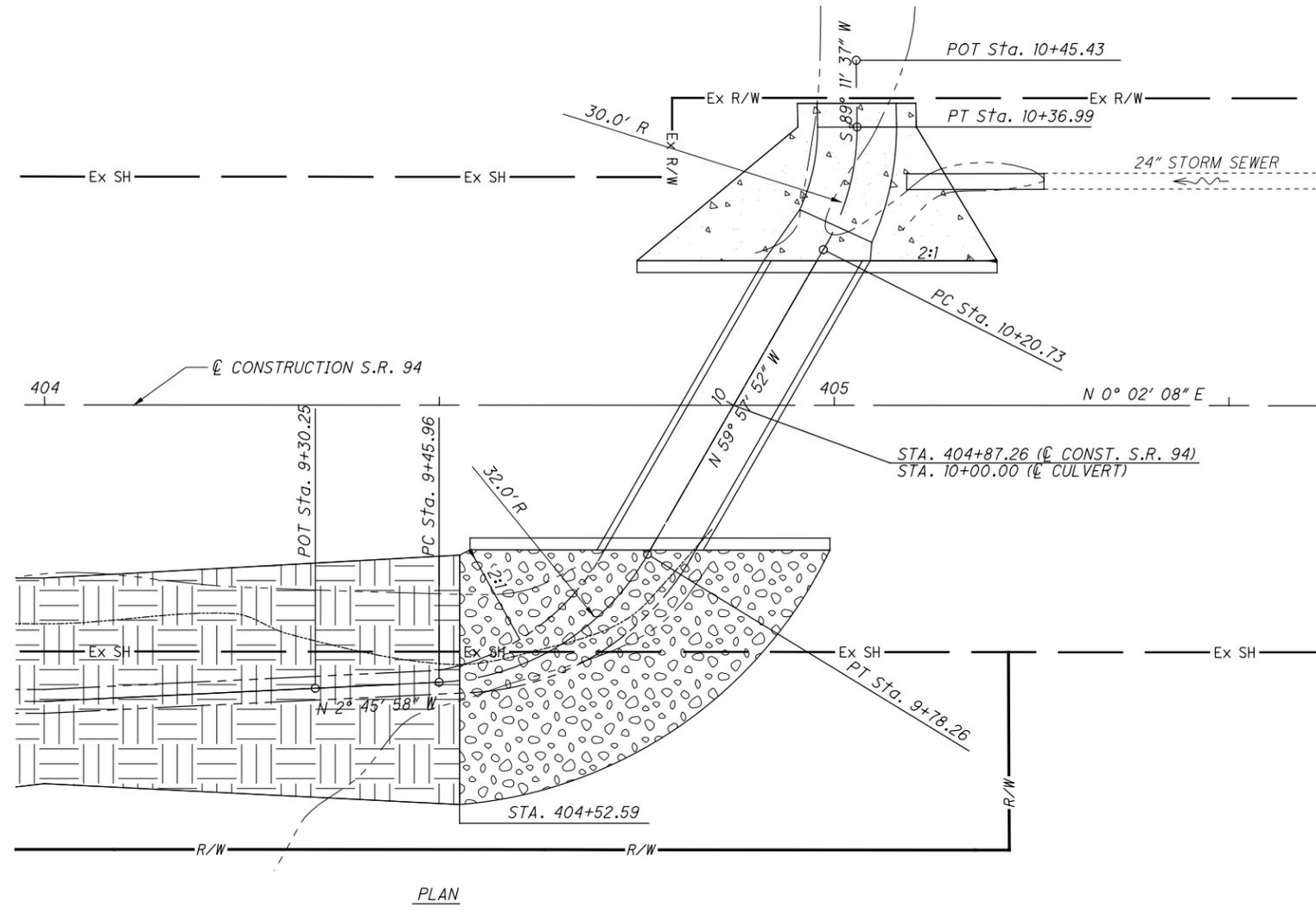
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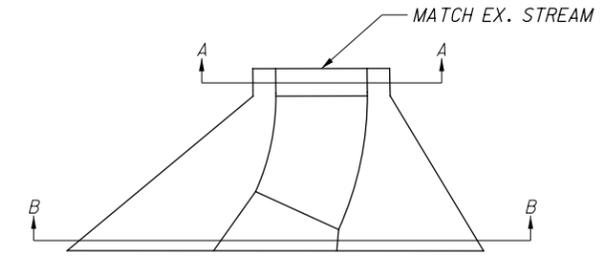
CALCULATED
OOS
CHECKED
JLN

**CHANNEL DETAILS
PAVED GUTTER**

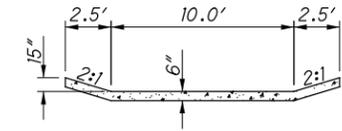
MED-94-7.66



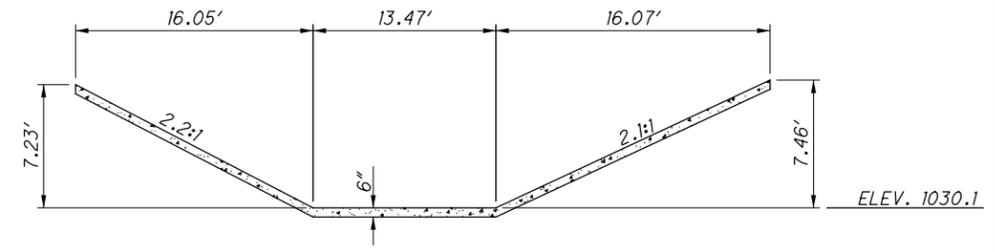
PLAN



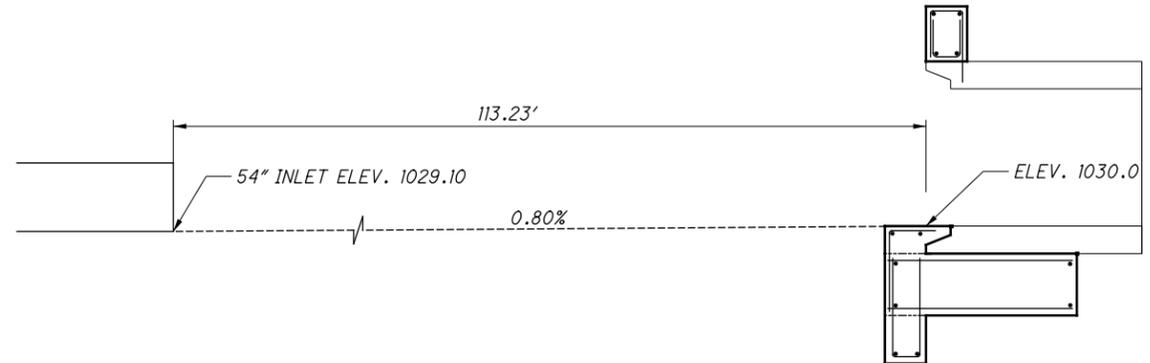
PAVED GUTTER DETAIL
NOT TO SCALE



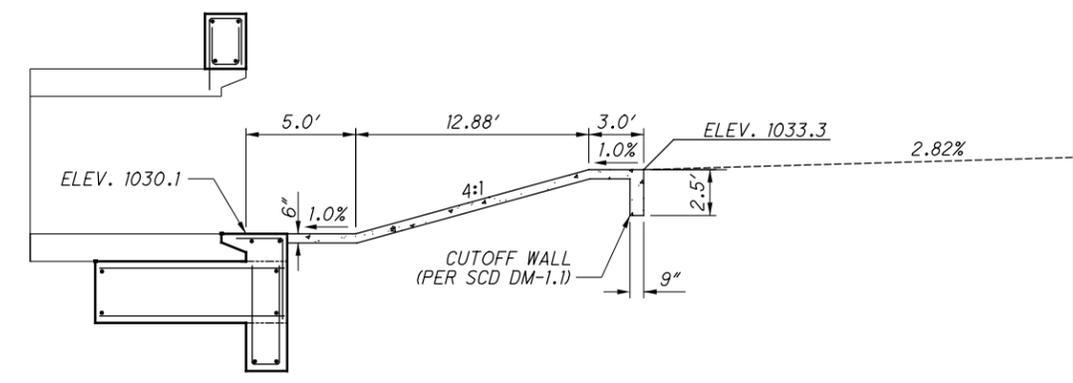
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



OUTLET PROFILE ALONG CENTERLINE OF DITCH
NOT TO SCALE



INLET PROFILE ALONG CENTERLINE OF PAVED GUTTER
NOT TO SCALE

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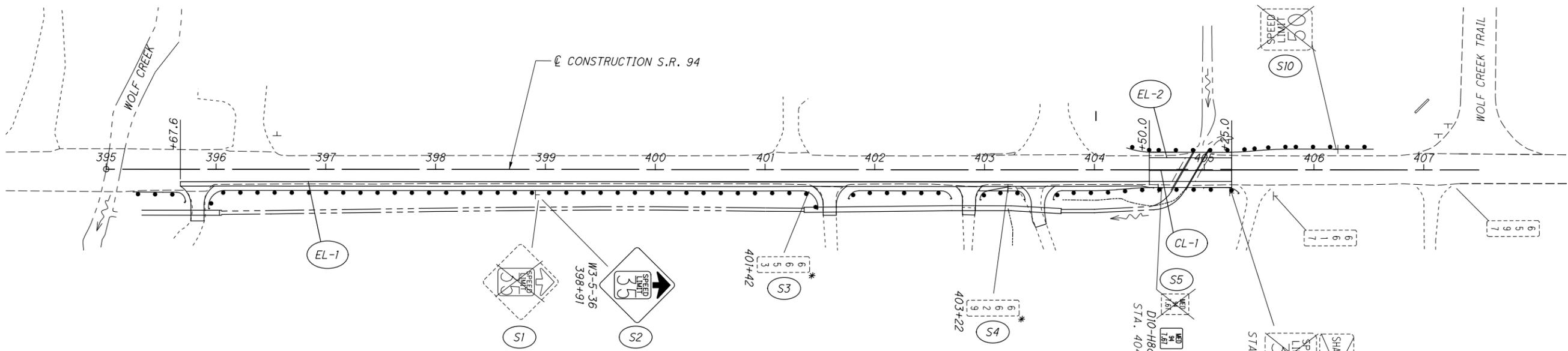


SIGNING AND PAVEMENT MARKING PLAN

MED-94-7.66

33
49

REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	630	630	630	630	630	630
						GROUND MOUNTED SUPPORT, NO. 2 POST	GROUND MOUNTED SUPPORT, NO. 3 POST	SIGN, FLAT SHEET	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
						FT	FT	SF	EACH	EACH	EACH
S1	S.R. 94	398+91	RT						1	1	
S2	S.R. 94	398+91	RT	W3-5-36	36 X 36		14.5	9.00			
S3	S.R. 94	401+42	RT								1
S4	S.R. 94	403+22	RT								1
S5	S.R. 94	404+58	RT						1	1	
S6	S.R. 94	404+58	RT	D10-H8a-12	12 X 12	10.0		1.00			
S7	S.R. 94	405+23	RT						2	2	
S8	S.R. 94	405+23	RT	R2-1-24	24 X 30			5.00			
S9	S.R. 94	405+23	RT	D1-HI-42	42 X 20		14.5-14.5	5.83			
S10	S.R. 94	406+22	LT						1	1	
S11	S.R. 94	406+22	LT	R2-1-24	24 X 30	13.0		5.00			
SUB-TOTAL						23.0	43.5	25.83	5	5	2
TOTAL CARRIED TO GENERAL SUMMARY						23.0	43.5	25.8	5	5	2



REFERENCE NO.	LOCATION	STATION		SIDE	620	626	644	644
		FROM	TO		DELINATOR POST GROUND MOUNTED, TYPE D	BARRIER REFLECTOR, TYPE 2 (BI-DIRECTIONAL)	EDGE LINE, WHITE 4"	CENTER LINE, SOLID AND BROKEN DOUBLE
					EACH	EACH	FT	FT
EL-1	S.R. 94	395+68	405+25	RT			957	
EL-2	S.R. 94	404+50	405+25	LT			75	
CL-1	S.R. 94	404+50	405+25	CL				75
	S.R. 94	395+25	405+32	RT		11		
	S.R. 94	404+29	406+54	LT	1	4		
SUB-TOTAL					1	15	1,032	75
TOTAL CARRIED TO GENERAL SUMMARY					1	15		
TOTAL MILES CARRIED TO GENERAL SUMMARY							0.20	0.01

NOTE: REPLACE PAVEMENT MARKINGS EL-1, EL-2, AND CL-1 AT THE EXISTING OFFSETS

*: REMOVAL AND REERECTION ITEM

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DESIGN AGENCY
EUTHENICS INC.
CONSULTING ENGINEERS

DATE
10/25/19
REVIEWED
ARP
STRUCTURE FILE NUMBER
5205558

DRAWN
MMP
CHECKED
AJM

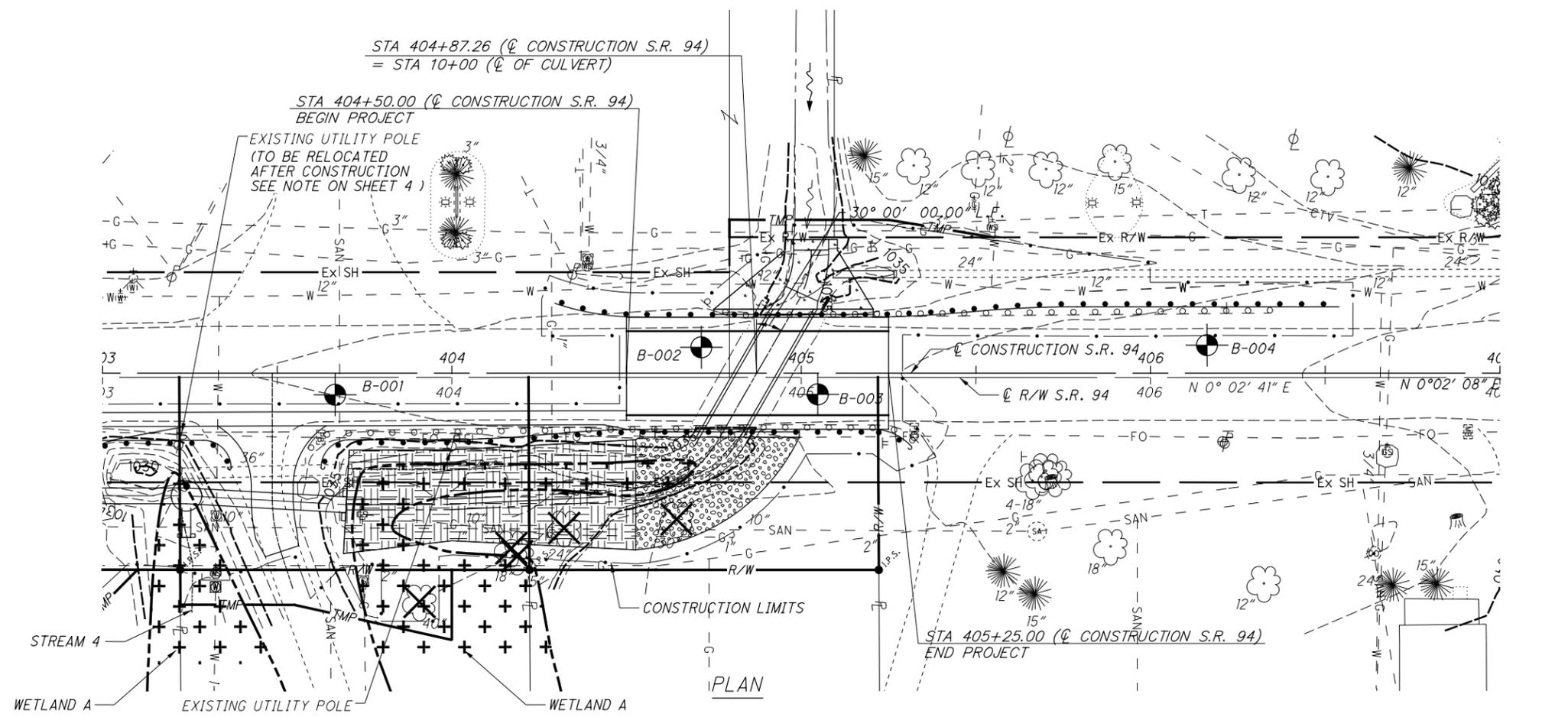
MEDINA COUNTY
STA. 403+00
STA. 407+00

STRUCTURE SITE PLAN
STATE ROUTE 94 OVER TRIBUTARY TO WOLF CREEK
STA. 404+87.26

MED-94-07.66
PID No. 90938

1/6

34
49



FOR BENCHMARK INFORMATION SEE SCHEMATIC PLAN, SHEET 2/49

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2020 ADT = 6,200 2020 ADTT = 372
2040 ADT = 6,700 2040 ADTT = 402
DIRECTIONAL DISTRIBUTION = 58%

LEGEND

- ⊕ BORING LOCATION
- ▭ - CHANNEL EXCAVATION

HYDRAULIC DATA

DRAINAGE AREA = 0.57 SQ. MILES
Q (25) = 141 CFS V (25) = 3 FT/S
Q (100) = 198 CFS V (100) = 4 FT/S
25 YR. DESIGN HIGH WATER OF CULVERT IS 1.90' BELOW NEAR LOW EDGE OF PAVEMENT

EXISTING STRUCTURE

TYPE: SINGLE SPAN REINFORCED CONCRETE SLAB BRIDGE WITH CONCRETE WEARING SURFACE ON REINFORCED CONCRETE ABUTMENTS ON SPREAD FOOTINGS

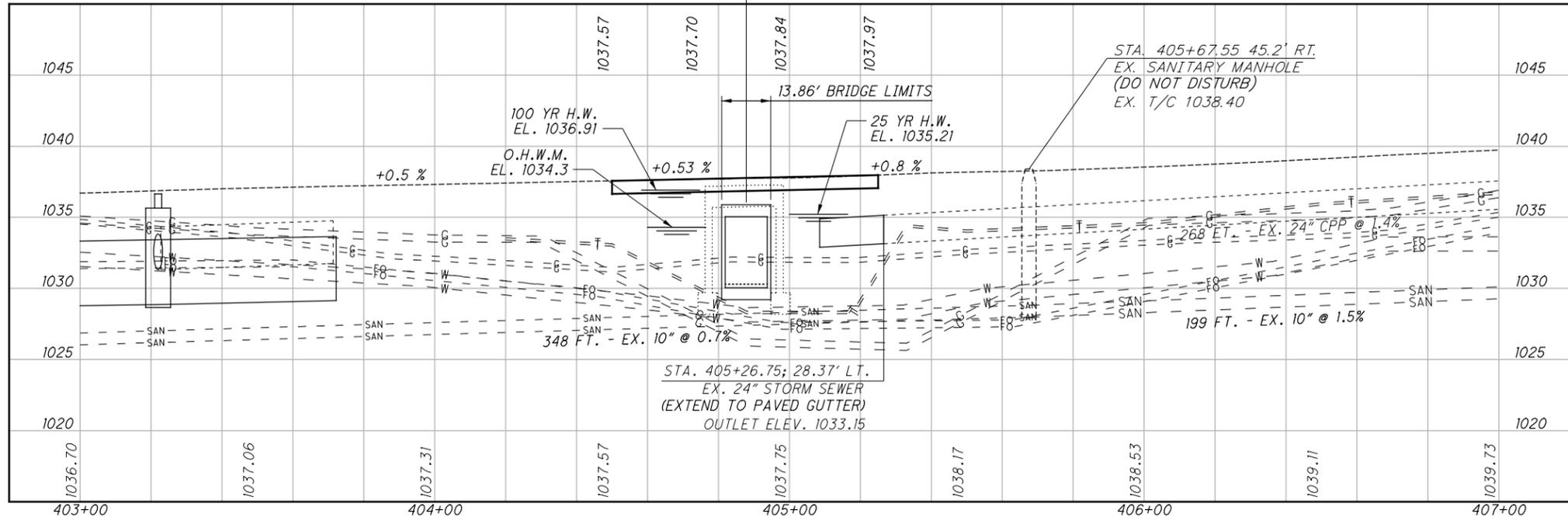
SPANS: 17'-0" ±
ROADWAY: 32'-0" ± FACE/FACE OF GUARDRAIL
LOADING: UNKNOWN
SKEW: 29° 30' ±
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
CROWN: 0.016 ± FT/FT
STRUCTURAL FILE NUMBER: 5205557
DATE BUILT: 7/1/1920, RECONSTRUCTED 1/1/1962
DISPOSITION: EXISTING STRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: 4-SIDED REINFORCED CONCRETE BOX CULVERT, 10'-0" BY 5'-0", WITH ASPHALT WEARING COURSE, REINFORCED CONCRETE HEADWALLS, REINFORCED CONCRETE TURNBACK WINGWALLS AND INVERT BURIED 1'-0" BELOW FLOWLINE

SPANS: 11'-6 1/2"
ROADWAY: 32'-0" FACE/FACE OF GUARDARIL
LOADING: HL-93 AND 60 PSF FUTURE WEARING SURFACE
SKEW: 30° 00' 00.00" LEFT FORWARD
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
COORDINATES: LATITUDE N 41° 5' 31.38"
LONGITUDE W 81° 44' 8.21"

STA: 404+87.26
10'X5' 4-SIDED CONCRETE BOX CULVERT
INLET STA.: 404+97.36 17.5' LT.
INLET INVERT: 1030.1
OUTLET STA.: 404+77.15, 17.5' RT.
OUTLET INVERT: 1030.0
INVERT DEPRESSED 1' BELOW PR. STREAM E



PROFILE

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DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8TH EDITION, 2017, INCLUDING CURRENT INTERIM REVISIONS; THE ODOT BRIDGE DESIGN MANUAL, 2019, INCLUDING CURRENT INTERIM REVISIONS.

DESIGN DATA

THE FOLLOWING DESIGN DATA IS ASSUMED:

- INTERNAL ANGLE OF FRICTION OF BACKFILL SOIL= 30°
- TOTAL UNIT WEIGHT OF BACKFILL SOIL = 120 PCF
- INTERNAL ANGLE OF FRICTION (DRAINED), FOUNDATION SOIL= 28°
- FACTORED BEARING RESISTANCE, FOUNDATION SOIL= 2,250 P.S.F.
- UNIT WEIGHT OF CONCRETE = 150 P.C.F.
- SLOPE OF BACKFILL = 2:1 (TYPE A & B HEADWALLS)
- HEIGHT OF LIVE LOAD SURCHARGE = 2 FT. (TYPE C HEADWALLS)

CONCRETE CLASS QC1

-COMPRESSIVE STRENGTH 4000 PSI (FOOTING, WINGWALL AND FORESLOPE WALL)

REINFORCING STEEL - ASTM A615, A616, OR A617

-GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI (ALL REINFORCING SHALL BE EPOXY COATED)

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSION SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FIELD MEASUREMENTS. THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE.

CONTRACT BID PRICES SHALL BE BASED UPON RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON THE CONTRACTOR'S PREBID EXAMINATION OF THE EXISTING STRUCTURE. ALL PROJECT WORK, HOWEVER, SHALL BE BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

CONCRETE COVER FOR REINFORCING STEEL

MINIMUM CONCRETE COVER FOR ALL REINFORCING BARS SHALL BE TWO INCHES (2") UNLESS SHOWN OTHERWISE IN THE PLANS.

UTILITY LINES

THE UTILITIES SHALL BEAR ALL EXPENSES INVOLVED IN RELOCATING THE AFFECTED UTILITY LINES. THE CONTRACTOR AND UTILITIES ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

**ASBESTOS ABATEMENT
ASBESTOS INSPECTION**

AN ASBESTOS SURVEY WAS CONDUCTED ON THIS STRUCTURE. A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST COMPLETED THE SURVEY ON --/--. THE SURVEY DID NOT IDENTIFY ASBESTOS CONTAINING HAZARDOUS MATERIALS ON THE BRIDGE.

THE REMOVAL AND DISPOSAL OF ANY ASBESTOS CONTAINING MATERIAL (ACM) DURING CONSTRUCTION MUST COMPLY WITH THE OHIO ADMINISTRATIVE CODE, THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHA) STANDARDS FOR ASBESTOS. THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL TRAINED IN THE PROVISIONS OF NESHA WHO WILL BE ON-SITE TO MONITOR THE REMOVAL OF ALL ACM.

THE CONTRACTOR WILL SUBMIT A COMPLETED AND SIGNED COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND REMOVAL/ABATEMENT TO:

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216 - 1049
OR
ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43216

SUBMITTAL WILL OCCUR AT LEAST TEN (10) DAYS PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.

IT IS POSSIBLE THAT THERE MAY BE NON-VISIBLE OR PREVIOUSLY UNIDENTIFIED ACM ENCOUNTERED DURING CONSTRUCTION. ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS SHALL BE EVALUATED BY A CERTIFIED ASBESTOS EVALUATION SPECIALIST TO DETERMINE WHETHER THE MATERIAL ACTUALLY CONTAIN ASBESTOS. IF IT DOES, THEN THE ACM SHALL BE REMOVED AS DESCRIBED ABOVE.

BASIS OF PAYMENT:

THE CONTRACTOR SHALL FURNISH ALL LABOR (INCLUDING THE CERTIFIED ASBESTOS EVALUATION SPECIALIST), EQUIPMENT AND MATERIALS NECESSARY TO EVALUATE ALL SUSPECTED ACM DISCOVERED DURING CONSTRUCTION. PAYMENT FOR THIS WORK SHALL BE MADE IN COMPLIANCE WITH ODOT DISTRICT 3 GENERAL PROVISIONS.

THE CONTRACTOR SHALL FURNISH ALL LABOR (INCLUDING THE CERTIFIED ASBESTOS ABATEMENT SPECIALIST), EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE, SUBMIT AND COMPLY WITH THE OEPA NOTIFICATION FORM AND TO REMOVE, TRANSPORT AND DISPOSE OF ALL KNOWN AND/OR PREVIOUSLY UNIDENTIFIED ACM IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY OEPA) SOLID WASTE FACILITY. PAYMENT FOR THIS WORK SHALL BE MADE IN COMPLIANCE WITH ODOT DISTRICT 3 GENERAL PROVISIONS.

ITEM 203 - EXCAVATION, AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING UNSTABLE OR UNSUITABLE MATERIAL, WHICH IS ENCOUNTERED BELOW THE NORMAL PIPE OR HEADWALL BEDDING ELEVATION, TO THE DEPTH DIRECTED BY THE ENGINEER. EXCAVATION OF ALL MATERIAL ABOVE THE NORMAL BEDDING ELEVATION SHALL BE CONSIDERED AS INCIDENTAL TO VARIOUS OTHER ITEMS OF WORK, AND NO SEPARATE PAYMENT WILL BE MADE FOR EXCAVATION ABOVE THE PLAN FOUNDATION.

THE QUANTITY SHALL BE MEASURED FROM BELOW THE BOTTOM OF THE NORMAL BEDDING TO THE DEPTH AND WIDTH AS DIRECTED BY THE ENGINEER. THE LIMITS SHOULD EXTEND AT LEAST 2 FEET BEYOND THE PROPOSED WINGWALL SLAB PERIMETER. UNSUITABLE MATERIAL THAT IS EXCAVATED SHALL BE REMOVED FROM THE SITE OF THE WORK AND REPLACED WITH ITEM 203 - GRANULAR MATERIAL, TYPE B.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS INTENDED ONLY AS AN ALLOWANCE IN THE EVENT UNSTABLE OF UNSUITABLE MATERIAL IS ENCOUNTERED. FINAL PAYMENT SHALL BE BASED ON THE ENGINEER'S FINAL MEASUREMENTS.

ITEM 203 - EXCAVATION, AS PER PLAN 182 CY

ITEM 203 - GRANULAR MATERIAL, TYPE B

THIS ITEM SHALL CONSIST OF PROVIDING A COMPACTED BEDDING MATERIAL MEETING THE GRADATION OF ITEM 304 AND COMPACTED TO 100% OF THE STANDARD PROCTOR DRY DENSITY OF THE MATERIAL IN AREAS THAT ARE OVER EXCAVATED FOR THE REMOVAL OF UNSTABLE OR UNSUITABLE MATERIAL BELOW THE NORMAL CONDUIT OR HEADWALL BEDDING ELEVATION, AS DIRECTED BY THE ENGINEER. PLACE AND COMPACT THE STRUCTURAL BACKFILL IN ACCORDANCE WITH ITEM 203. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS INTENDED ONLY AS AN ALLOWANCE IN THE EVENT UNSTABLE OR UNSUITABLE MATERIAL IS ENCOUNTERED. FINAL PAYMENT SHALL BE BASED ON THE ENGINEER'S FINAL MEASUREMENTS.

ITEM 203 - GRANULAR MATERIAL, TYPE B 182 CY

ITEM 503 - COFFERDAMS, AND EXCAVATION BRACING, AS PER PLAN:

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS, CRIBS, AND EXCAVATION BRACING. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

ROADWAY MISC.: DE-WATERING

1. A DE-WATERING PLAN SHALL BE DEVELOPED AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY PUMPING ACTIVITIES.
2. THE DE-WATERING PLAN SHALL INCLUDE ALL PUMPS AND RELATED EQUIPMENT NECESSARY FOR THE DE-WATERING ACTIVITIES AND DESIGNATE AREAS FOR PLACEMENT OF PRACTICES. OUTLETS FOR PRACTICES SHALL BE PROTECTED FROM SCOUR EITHER BY RIPRAP PROTECTION, FABRIC LINER OR OTHER ACCEPTABLE METHOD OF OUTLET PROTECTION.
3. ALL NECESSARY NATIONAL, STATE AND LOCAL PERMITS SHALL BE SECURED PRIOR TO DISCHARGING INTO WATERS OF THE STATE.
4. DE-WATERING WILL BE REQUIRED TO MAINTAIN GROUNDWATER LEVEL AT LEAST 2 FEET BELOW THE FOUNDATION BEARING ELEVATION OF ALL CULVERT HEADWALLS AT ALL TIMES DURING CONSTRUCTION.
5. USE TEMPORARY FILL IMPERVIOUS DAMS OR OTHER METHODS APPROVED BY THE ENGINEER UPSTREAM OF THE CULVERT. ALL TEMPORARY DAMS SHALL BE CONSTRUCTED INSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS.

ALL MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO MAINTAIN THE STREAM CHANNEL FLOW THROUGH THE SITE AND PROPERLY DE-WATER THE EXCAVATION AREAS OF THE PROJECT SHALL BE PAID FOR AT THE LUMP SUM BID PRICE FOR ITEM 203 - ROADWAY, MISC.: DE-WATERING



DESIGN AGENCY
DATE 01/21/20
REVIEWED AJM
DRAWN OOS
DESIGNED OOS
CHECKED MMP

STRUCTURE FILE NUMBER
5205558

BOX CULVERT GENERAL NOTES
10' x 5' BOX CULVERT - STA. 404+87.426

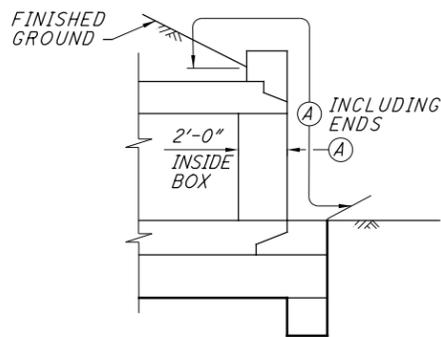
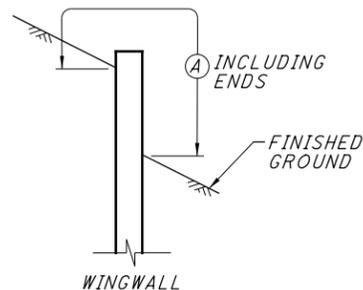
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PID No. 90938

PREFORMED EXPANSION JOINT FILLER

PREFORMED EXPANSION JOINT FILLER (PEJF) CONFORMING TO CMS 705.03, 1 INCH THICK, SHALL BE PLACED ABOVE THE FOOTING BETWEEN THE SIDES OF THE BOX CULVERT AND THE ENDS OF THE WINGWALLS. PAYMENT FOR MATERIALS AND INSTALLATION SHALL BE INCLUDED WITH ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER.

SEALING OF FORESLOPE WALL AND WINGWALLS

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES.



**FORESLOPE WALL AND PRECAST BOX
(CULVERT OUTLET BEVEL SHOWN)**

LIMITS OF ITEM 512 - SEALING CONCRETE SURFACES
 (A) - SEAL ENTIRE CONCRETE SURFACE AREA

POROUS BACKFILL WITH FILTER FABRIC

1'-6" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC TYPE A SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN 6" ABOVE THE TOP ELEVATION OF THE WEEPHOLE.

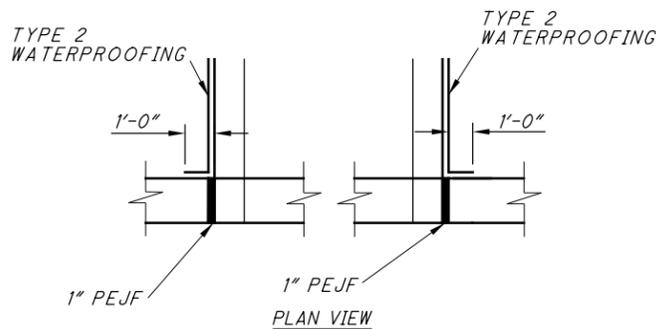
WEEPHOLES SHALL BE PLACED 6" TO 12" ABOVE THE NORMAL WATER ELEVATION OR GROUND LINE AND SHALL HAVE A MAXIMUM SPACING OF 10'-0". A MINIMUM OF ONE WEEPHOLE SHALL BE PROVIDED PER WINGWALL.

WATERPROOFING

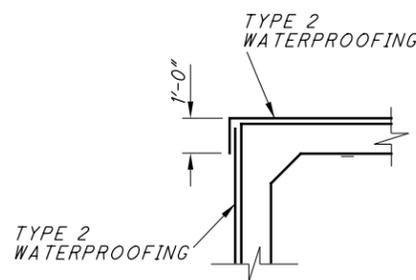
TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN.

TYPE 2 WATERPROOFING, PER CMS 512 AND 711.25 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING, AS PER PLAN.

THE PLANS DIRECT THAT A LAYER OF AGGREGATE BASE BE PLACED BETWEEN THE TYPE 2 WATERPROOFING MEMBRANE AND THE ASPHALT PAVEMENT. IF THE CONTRACTOR CHOOSES OMIT THIS LAYER OF AGGREGATE AND TO PLACE PAVEMENT DIRECTLY ON TOP OF THE CULVERT, TYPE 3 WATERPROOFING, PER CMS 512 AND 711.29 SHALL BE APPLIED IN PLACE OF TYPE 2 WATERPROOFING. NO ADDITIONAL PAYMENT FOR THE CHANGE IN MEMBRANE SHALL BE MADE.



PLAN VIEW



WATERPROOFING DETAILS

ITEM 611 - 10' X 5' CONDUIT, TYPE A, 706.05, AS PER PLAN

THIS ITEM SHALL CONSIST OF REPLACING THE EXISTING STRUCTURE WITH A 10' X 5' PRECAST CONCRETE CULVERT STRUCTURE. ALL APPLICABLE REQUIREMENTS OF CMS 611 AND CMS 706.05 AND ASTM C1577 SHALL BE MET EXCEPT AS DETAILED IN THE PLANS AND/OR NOTED HEREIN.

DESIGN OF THE PRECAST REINFORCED CONCRETE SECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE SHALL BE DESIGNED FOR HL-93 LOADING AND ALL OTHER APPLICABLE PROVISIONS OF THE CURRENT AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

TWO (2) HARD COPIES AND ONE (1) ELECTRONIC COPY OF THE SHOP DRAWINGS INCLUDING ALL ASSOCIATED DESIGN CALCULATIONS FOR REBAR SIZE, SPACING, CLEARANCE, CONCRETE THICKNESSES, ETC., MUST BE SUBMITTED TO THE ENGINEER FOR ACCEPTANCE. ALL SHOP DRAWINGS AND SUPPORTING CALCULATIONS MUST BEAR THE SIGNATURES AND SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF OHIO PER CMS 611.04.A. MANUFACTURING OF THE PRECAST SECTIONS SHALL NOT BEGIN UNTIL AFTER WRITTEN ACCEPTANCE OF THE SHOP DRAWINGS HAS BEEN RECEIVED.

PLACE AND JOIN ALL PRECAST CONCRETE SECTIONS PER 611.07, 611.08 AND AS DESCRIBED IN THE ACCEPTED INSTALLATION PLAN. JOINTS BETWEEN ADJACENT PRECAST CONCRETE SECTIONS SHALL BE TREATED PER THE APPROPRIATE METHOD DESCRIBED IN 611.08.B.3 FOR THE TYPE OF SECTIONS BEING JOINED. JOINT WRAP PRIMER MATERIAL SHALL ONLY BE APPLIED AFTER ALL PRECAST SECTIONS HAVE BEEN PROPERLY PLACED AND JOINED IN THE FIELD.

PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE MADE IN ACCORDANCE WITH 611.17 AT THE CONTRACT UNIT PRICE BID FOR THE ACTUALLY COMPLETED AND ACCEPTED QUANTITY OF:

ITEM 611 - 10' X 5' CONDUIT, TYPE A, 706.05, AS PER PLAN
 43 FT.

FORESLOPE WALL ANCHOR DOWELS

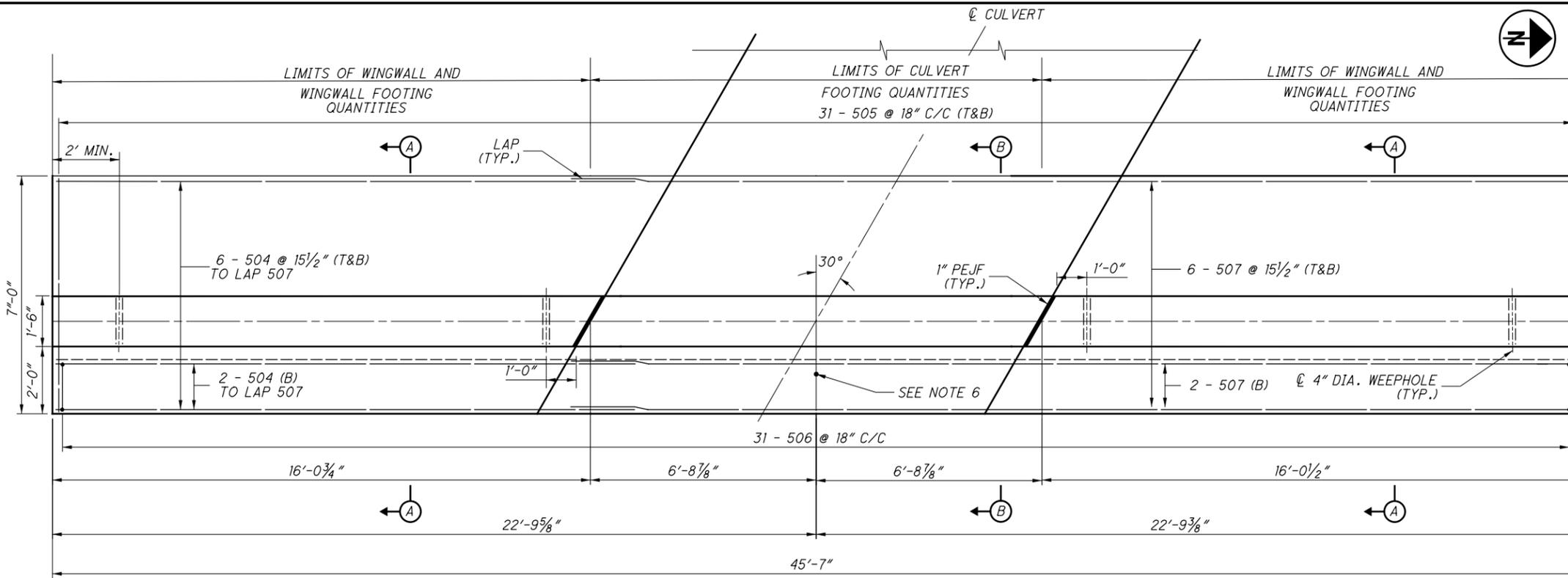
ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED ON SHEET 6/6. PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611 - 10' X 5' CONDUIT, TYPE A, 706.05, AS PER PLAN.

LEGEND

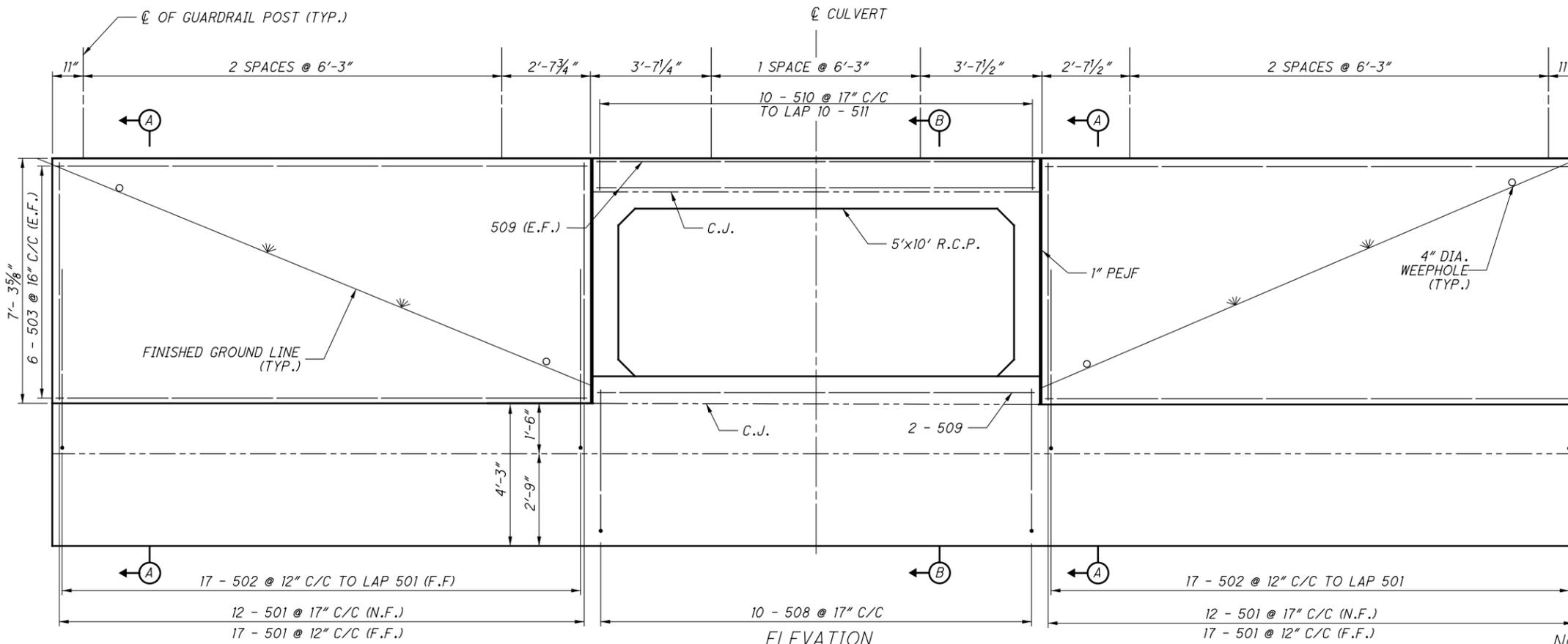
C.J.	CONSTRUCTION JOINT	PEJF	PREFORMED EXPANSION JOINT FILLER
CL.	CENTER LINE	QTY.	QUANTITY
CLR.	CLEAR	REINF.	REINFORCING
CONC.	CONCRETE	SER.	SERIES
DIA.	DIAMETER	SHT.	SHEET
DIM.	DIMENSION	SPA.	SPACING
EXTEN.	EXTENSION	T&B	TOP AND BOTTOM
E.F.	EACH FACE	TYP.	TYPICAL
F.F.	FAR FACE		
MAX.	MAXIMUM		
MIN.	MINIMUM		
N.F.	NEAR FACE		

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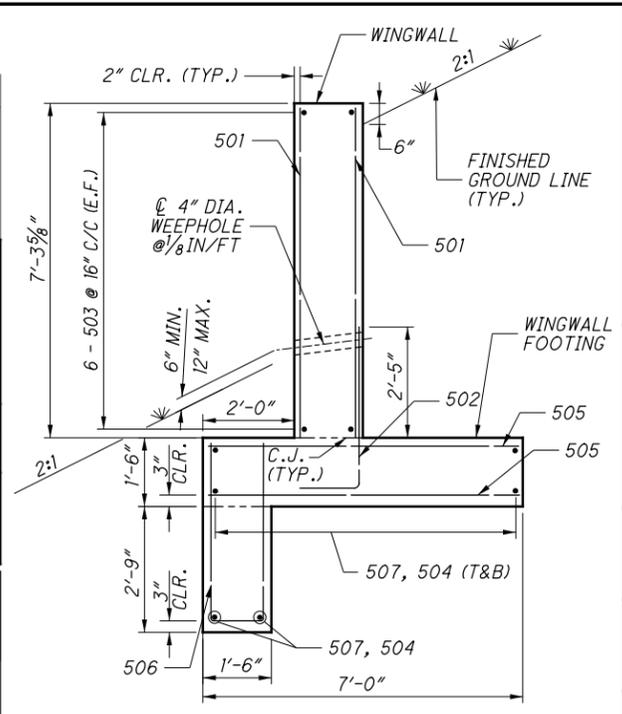


PLAN

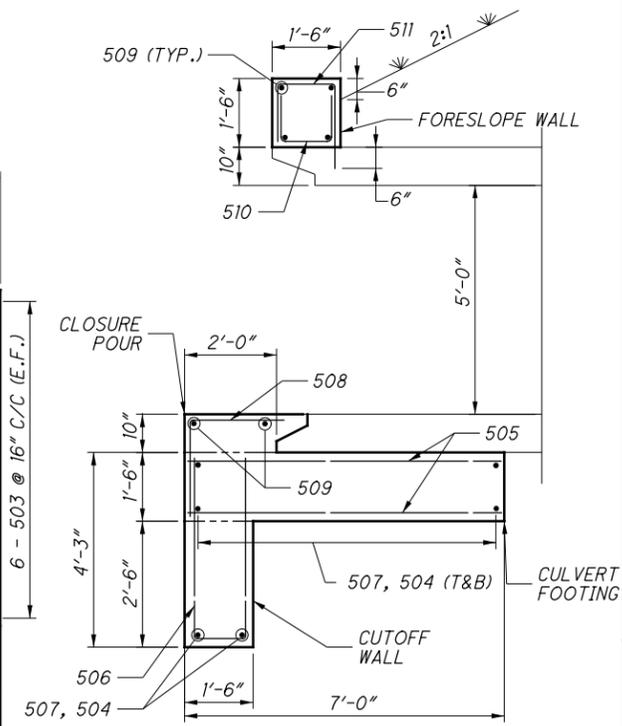
LAP LENGTHS
#5 BAR = 2' - 5"



ELEVATION



SECTION A-A



SECTION B-B

NOTES:
 FOR OUTLET WALL, SEE SHEET 38.
 FOR GUARDRAIL DETAILS AND REINFORCING SCHEDULE SEE SHEET 39.

DESIGN AGENCY
EUTHEMICS INC.
 CONSULTING ENGINEERS
 CLEVELAND, OHIO

DATE
 1/21/20

REVIEWED
 AJM

DRAWN
 OOS

DESIGNED
 OOS

CHECKED
 MMP

STRUCTURE FILE NUMBER
 5205558

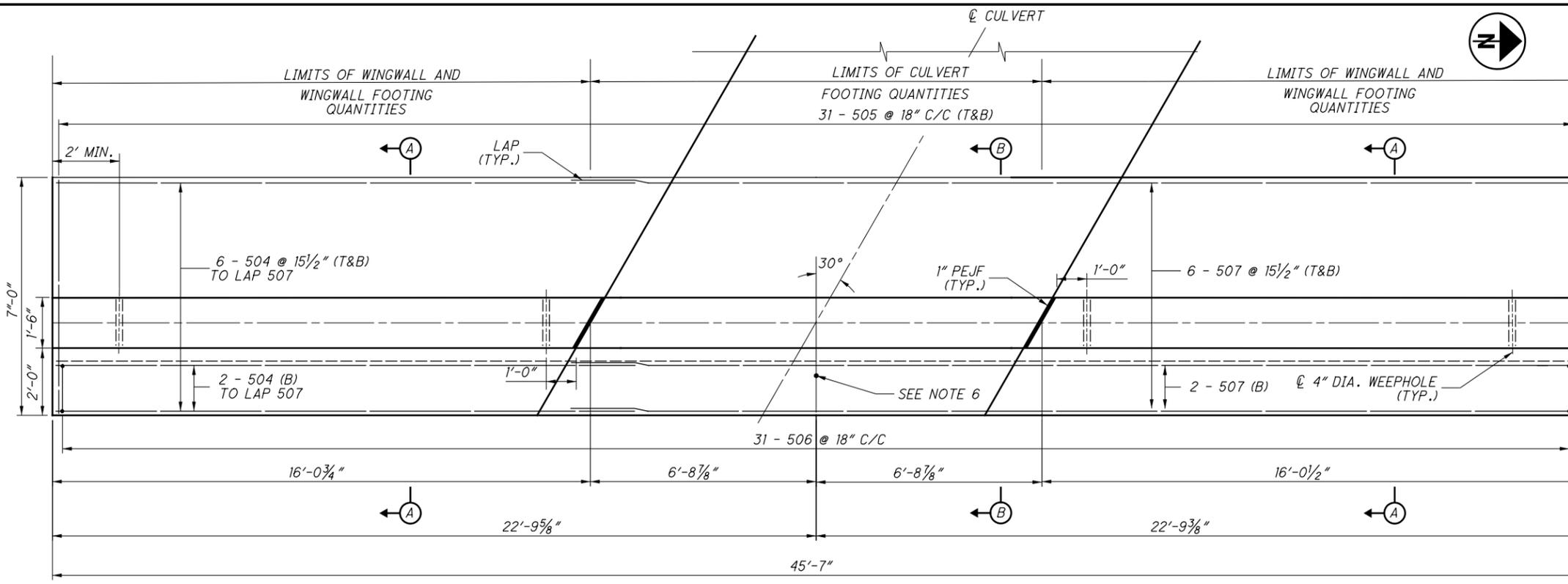
CULVERT DETAILS - INLET HEADWALL
 10' x 5' BOX CULVERT - STA. 404+87.26

MED-94-07.66
 PID No. 90938

4 / 6

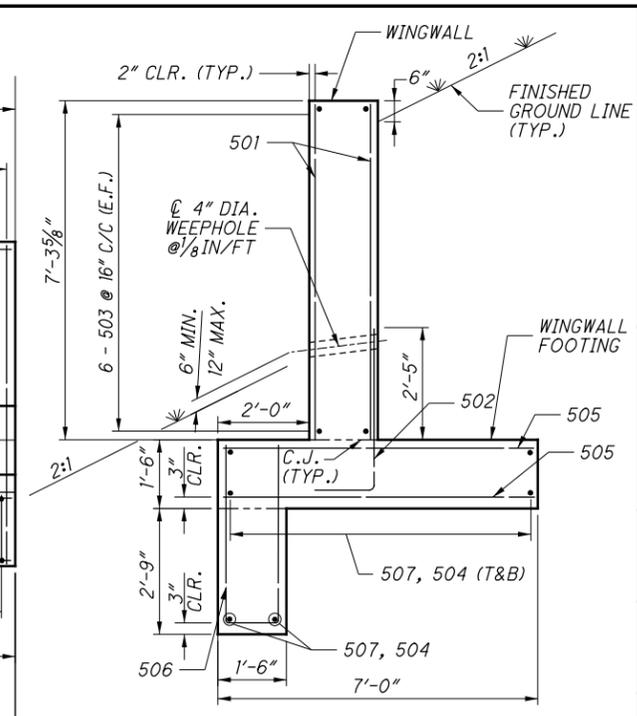
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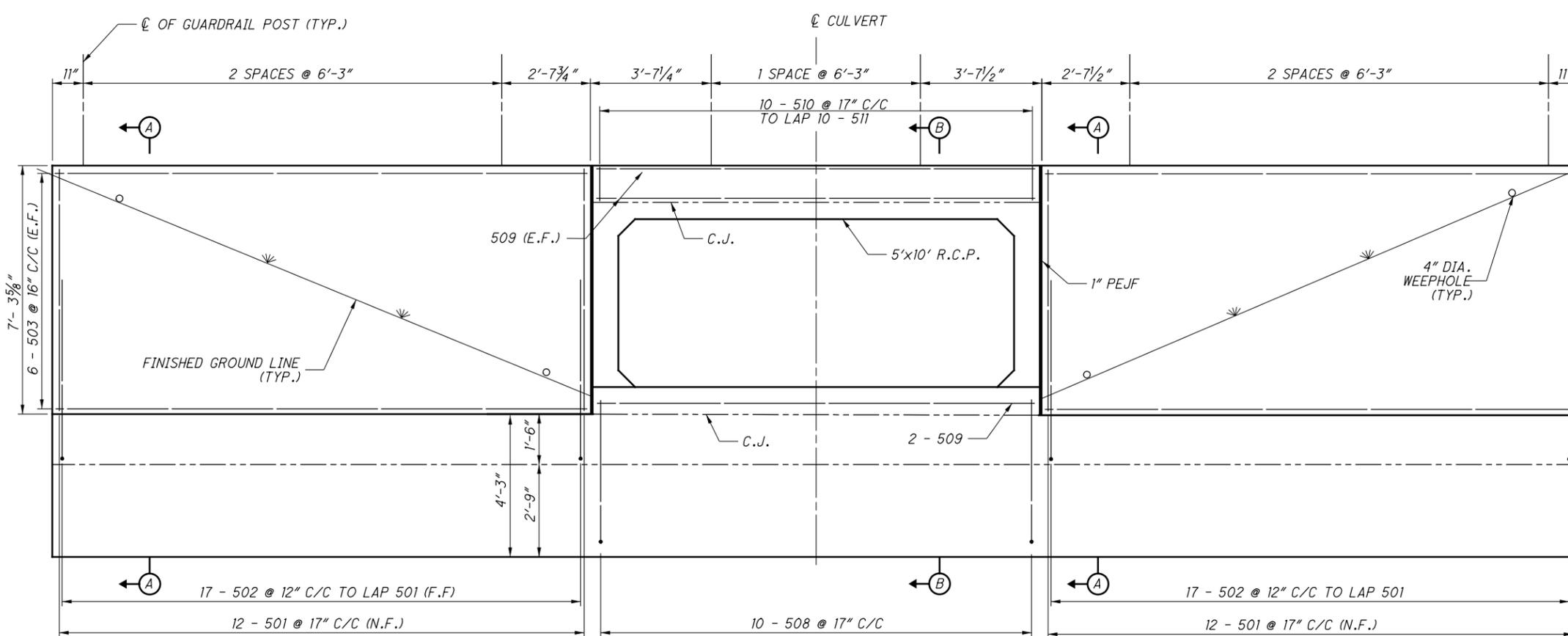


PLAN

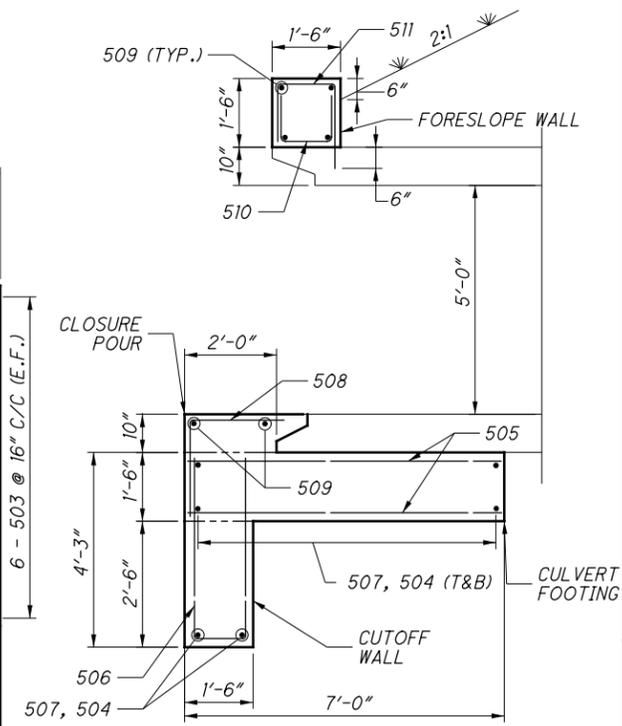
LAP LENGTHS
#5 BAR = 2' - 5"



SECTION A-A



ELEVATION



SECTION B-B

NOTES:

FOR INLET WALL, SEE SHEET 37.
FOR GUARDRAIL DETAILS AND REINFORCING SCHEDULE SEE SHEET 39.

DESIGN AGENCY
EUTHEMICS INC.
CONSULTING ENGINEERS
CLEVELAND, OHIO

DATE
01/21/20

REVIEWED
AJM

DRAWN
OOS

DESIGNED
OOS

CHECKED
MMP

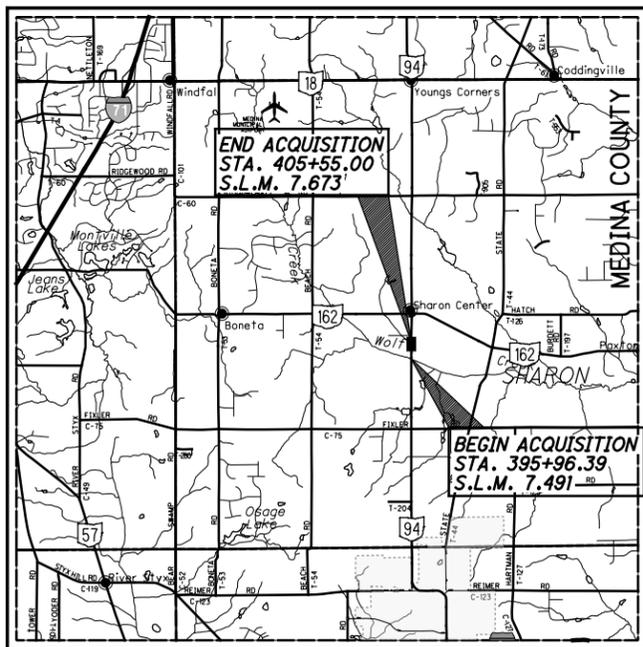
STRUCTURE FILE NUMBER
5205558

CULVERT DETAILS - OUTLET HEADWALL
10' x 5' BOX CULVERT - STA. 404+87.26

MED-94-07.66
PID No. 90938

5 / 6

38
49



LOCATION MAP

LATITUDE: 41°05'37" N LONGITUDE: 81°44'08" W

RIGHT OF WAY LEGEND SHEET MED-94-7.66

(RIDGE ROAD)

MEDINA COUNTY
SHARON TOWNSHIP

LOTS 45 & 46, TOWNSHIP 2N., RANGE 13W.

UTILITY OWNERS	
TYPE	NAME & ADDRESS
ELECTRIC	CITY OF WADSWORTH 365 BROAD STREET WADSWORTH, OH 44281 PHONE: (330) 335-2827
	COLUMBIA GAS 7080 FRY ROAD MIDDLEBURG HEIGHTS, OH 44130 PHONE: (440) 891-2428
GAS	COLUMBIA GAS 7080 FRY ROAD MIDDLEBURG HEIGHTS, OH 44130 PHONE: (440) 891-2428
SANITARY SEWER & WATER	MEDINA COUNTY SANITARY ENGINEERS 791 WEST SMITH ROAD P.O. BOX 542 MEDINA, OH 44258 PHONE: (330) 723-9585
	CHARTER COMMUNICATIONS 8179 DOW CIRCLE STRONGSVILLE, OH 44136 PHONE: (216) 575-8016 EXT. 5033
COMMUNICATIONS	MEDINA COUNTY FIBER NETWORKS 144 N. BROADWAY STREET MEDINA, OH 44256 PHONE: (216) 832-7059
	FRONTIER COMMUNICATIONS 6223 NORWALK ROAD MEDINA, OH 44256 PHONE: (330) 722-9586
	CITY OF WADSWORTH 365 BROAD STREET WADSWORTH, OH 44281 WORK PHONE: (330) 335-2886 CELL: (330) 819-8468

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

MONUMENT LEGEND

- Ⓜ IRON PIN IN MONUMENT BOX FOUND
- I.P.F. IRON PIN FOUND
- Ⓢ IRON PIPE FOUND
- Ⓢ I.P.F. CAPPED IRON PIN FOUND

INDEX OF SHEETS:

- LEGEND SHEET 1
- CENTERLINE PLAT 2-3
- PROPERTY MAP 4
- SUMMARY OF ADDITIONAL R/W 5
- R/W TOPOGRAPHIC SHEETS 6, 8
- R/W BOUNDARY SHEETS 7, 9
- R/W DETAIL 10

CONVENTIONAL SYMBOLS

- County Line _____
- Township Line _____
- Section Line _____
- Corporation Line _____ or _____
- Fence Line (Ex) _____ (Pr) _____
- Center Line _____
- Right of Way (Ex) _____ Ex R/W _____
- Right of Way (Pr) _____ R/W _____
- Sewer Ease (Ex) _____ Ex SW _____
- Temporary Right of Way _____ TMP _____
- Utility Ease (Ex) _____ Ex U _____
- Railroad _____ or _____
- Guardrail (Ex) _____ (Pr) _____
- Construction Limits _____
- Edge of Pavement (Ex) _____
- Edge of Pavement (Pr) _____
- Edge of Shoulder (Ex) _____
- Edge of Shoulder (Pr) _____
- Ditch / Creek (Ex) _____
- Ditch / Creek (Pr) _____
- Tree Line (Ex) _____
- Ownership Hook Symbol \angle , Example \angle
- Property Line Symbol ρ , Example ρ
- Break Line Symbol ∇ , Example ∇
- Tree (Pr) \odot , Tree (Ex) \odot , Shrub (Ex) \odot
- Tree (Remove) \otimes , Shrub (Remove) \otimes
- Evergreen (Ex) \star , Stump \star
- Evergreen (Remove) \star , Stump (Remove) \star
- Wetland (Pr) ∇ , Grass (Pr) ∇ , Aerial Target ∇
- Post (Ex) \odot , Mailbox (Ex) \square , Mailbox (Pr) \square
- Light (Ex) \odot , Telephone Marker (Ex)+TEL \odot
- Fire Hydrant (Ex) \odot , Water Meter (Ex) \odot
- Water Valve (Ex) \odot , Utility Valve Unknown (Ex.) \odot
- Telephone Pole (Ex) \odot , Power Pole (Ex) \odot
- Light Pole (Ex) \odot

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- ▨ OUT-BUILDING

LEGEND

- WD = WARRANTY DEED
- T = TEMPORARY EASEMENT

PROJECT DESCRIPTION

REPLACEMENT OF THE S.R. 94 BRIDGE (SFN 5205558), FULL DEPTH PAVEMENT REPLACEMENT, REPLACE THREE RESIDENTIAL DRIVE PIPES AND ONE FIELD DRIVE PIPE, AND COMPLETE CHANNEL GRADING.

THE EXISTING AND PROPOSED RIGHT OF WAY SHALL BE REFERENCED FROM THE CENTERLINE OF RIGHT OF WAY.

PLANS PREPARED BY:

FIRM NAME : EUTHENICS, INC.
 R/W DESIGNER: ALAN R. PIATAK, P.E.
 R/W REVIEWER: SCOTT A. HORAN, P.S.
 FIELD REVIEWER: SCOTT A. HORAN, P.S.
 PRELIMINARY FIELD REVIEW DATE: 11/20/18
 TRACINGS FIELD REVIEW DATE: 04/23/19
 OWNERSHIP UPDATED BY: SCOTT A. HORAN, P.S.
 DATE COMPLETED: 04/23/19
 PLAN COMPLETION DATE: 04/26/19

I, Luke Walker, P.S. have conducted a survey of the existing conditions for the Ohio Department of Transportation on November, 2017. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, North Zone on NAD 83 2011 datum. The Project Coordinates (US Survey feet) are relative to State Plane Grid Coordinates (meters or US Survey feet) by a Project Adjustment Factor multiplier of 1.00010483. As a part of this Project I have reestablished the locations of the centerline alignment of State Route 94 and the existing Right of Way for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

 Luke Walker, Date
 Professional Land Surveyor No. 8701,

I, Scott A. Horan, P.S. have conducted a survey of the existing conditions for the Ohio Department of Transportation between February 2018 and November 2018. The results of that survey combined with information provided by ODOT are contained herein. Underground utility locations are shown for informational purposes only. Though they are believed to be accurate, their location is as marked on the ground by the utility company or Cardno and those markings subsequently being surveyed as a part of this project or by marked plans showing location of completed or planned relocations provided by ODOT. As a part of this Project I have reestablished the locations of the existing property lines and centerline of existing Right of Way of Wolf Creek Trail (T.H. 435) for the property takes herein. As a part of this project I have established the proposed property lines, calculated the Gross Take, Present Roadway Occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessary to acquire the parcels as shown herein. As part of this work I have set right of way monuments at property corners, property line intersections, points along the right of way and/or angle points on the right of way, and other points as shown herein. All of my work contained herein was conducted in accordance with the Ohio Administrative Code Chapter 4733-37 Standards for Boundary Surveys unless so noted. The words I and my, as used herein, are to mean that either myself or someone working under my direct supervision.

 Scott A. Horan Date
 Professional Land Surveyor No. 8678

MONUMENT LEGEND

- Ⓜ IRON PIN IN MONUMENT BOX FOUND
- ⓄP.F. IRON PIPE FOUND
- ⓄI.P.F. IRON PIN FOUND

MED-94-7.66
(RIDGE ROAD)
 MEDINA COUNTY
 SHARON TOWNSHIP
 LOTS 45 & 46, T. 2 N., R. 13 W.

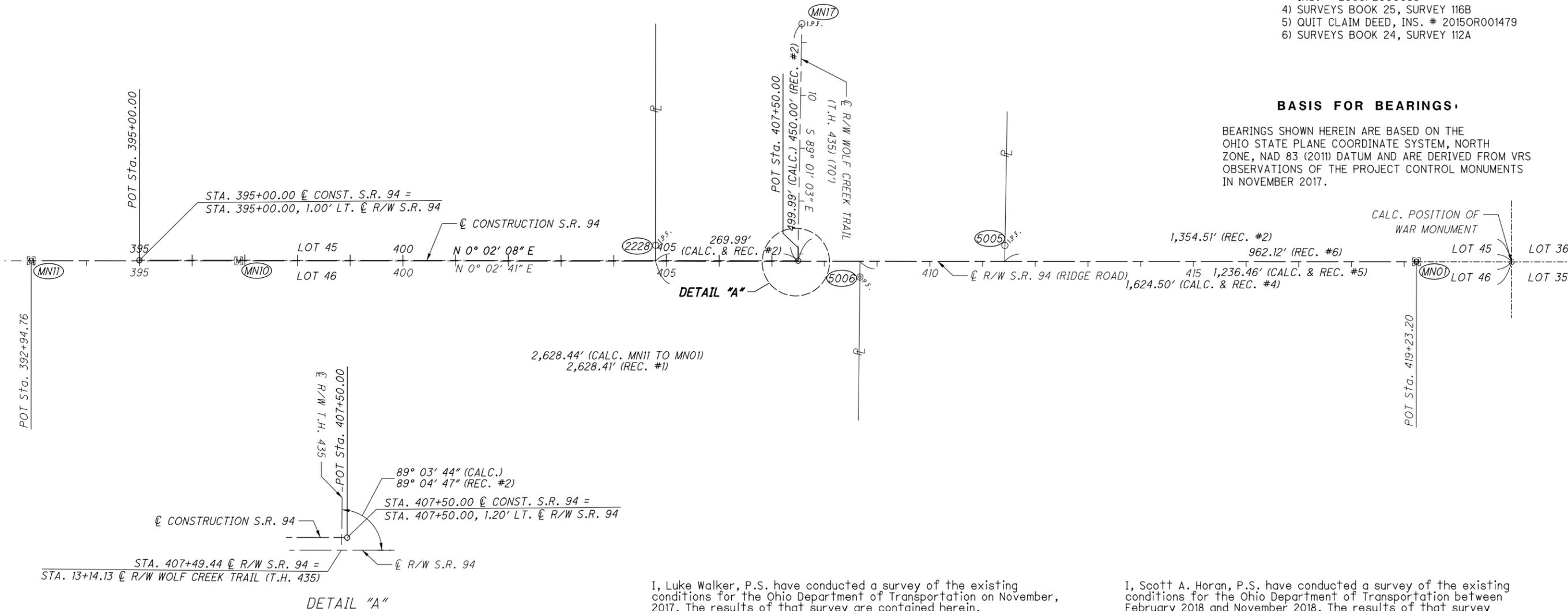
BASIS FOR EXISTING CENTERLINE OF R/W AND R/W WIDTH

THE EXISTING S.R. 94 R/W WIDTHS AND LOCATIONS WERE DETERMINED FROM THE RECORD DOCUMENTS ON FILE WITH ODOT, DISTRICT 3 OFFICE:
 1) MED-94-(12.000)(12.640)(13.020) PLANS

THE EXISTING T.H. 435 R/W WIDTHS AND LOCATIONS WERE DETERMINED FROM THE RECORD DOCUMENTS ON FILE IN THE MEDINA COUNTY RECORDS:
 2) SHARON CORPORATE PARK PLAT VOL. 23, PG. 7
 3) SHARON CORPORATE PARK REPLAT #2 INS. # 2005PL000033
 4) SURVEYS BOOK 25, SURVEY 116B
 5) QUIT CLAIM DEED, INS. # 2015OR001479
 6) SURVEYS BOOK 24, SURVEY 112A

BASIS FOR BEARINGS

BEARINGS SHOWN HEREIN ARE BASED ON THE OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83 (2011) DATUM AND ARE DERIVED FROM VRS OBSERVATIONS OF THE PROJECT CONTROL MONUMENTS IN NOVEMBER 2017.



I, Luke Walker, P.S. have conducted a survey of the existing conditions for the Ohio Department of Transportation on November, 2017. The results of that survey are contained herein.

The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, North Zone on NAD 83 2011 datum. The Project Coordinates (US Survey feet) are relative to State Plane Grid Coordinates (meters or US Survey feet) by a Project Adjustment Factor multiplier of 1.00010483.

As a part of this Project I have reestablished the locations of the centerline alignment of State Route 94 and the existing Right of Way for property takes contained herein.

All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted.

The words I and my as used herein are to mean either myself or someone working under my direct supervision.

 Luke Walker, Date
 Professional Land Surveyor No. 8701,

I, Scott A. Horan, P.S. have conducted a survey of the existing conditions for the Ohio Department of Transportation between February 2018 and November 2018. The results of that survey combined with information provided by ODOT are contained herein.

As a part of this Project I have reestablished the locations of the existing property lines and centerline of existing Right of Way of Wolf Creek Trail (T.H. 435).

As part of this work I have set right of way monuments at property corners, property line intersections, points along the right of way and/or angle points on the right of way, and other points as shown herein.

All of my work contained herein was conducted in accordance with The Ohio Administrative Code Chapter 4733-37 Standards for Boundary Surveys unless so noted.

The words I and my, as used herein, are to mean that either myself or someone working under my direct supervision.

 Scott A. Horan Date
 Professional Land Surveyor No. 8678

N

HORIZONTAL SCALE IN FEET

PID NO. **90938**

R/W DESIGNER: SAH
 APP: SAH
 R/W REVIEWER: SAH

CENTERLINE PLAT

MED-94-7.66

2 / 10

41
49

F:\Jobs\1042 - MED 94\90938_MED-094-07.66\Design\RW_Sheets\90938_RCO01.dgn Sheet 2/9/2021 4:07:37 PM mpilot

RECEIVED _____, 20____
 RECORDED _____, 20____
 BOOK _____ PAGE _____
 COUNTY RECORDER

Ⓜ## - SURVEYED BY ODOT
 Ⓞ## - SURVEYED BY EUTHENICS
 SEE SHEET 3 OF 10 FOR MONUMENT TABLE

F:\Jobs\1042 - MED 94\90938_MED-094-07.66\Design\RW_Sheets\90938_RC002.dgn_Sheet 2/9/2021 4:07:38 PM mpilat

PROJECT GROUND COORDINATES - US SURVEY FEET							
Project coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of:							3.28117726
C/L of Right-of-Way SR 094		MED-94-(12.000)(12.640)(13.020) used for alignment					
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
CP01	396+59.73	-19.50	LT	520427.702	2179400.464	1032.93	IPINS
CP02	403+20.46	-17.88	LT	521088.436	2179402.596	1036.71	IPINS
CP03	406+86.64	-23.88	LT	521454.619	2179396.885	1038.84	IPINS
CP04	411+15.72	-17.02	LT	521883.690	2179404.078	1052.02	IPINS
BM01	403+09.10	-27.36	LT	521077.083	2179393.109	1038.88	BM
BM02	406+20.64	18.31	RT	521388.582	2179439.024	1040.29	BM

PROJECT CONTROL POINTS	
NAME	DESCRIPTION
CP01	CP01 defined by GPS from CORS using Geoid 12A. All other elevations are established by leveling from CP01.
CP02	
CP03	
CP04	
BM01	
BM02	

STATE PLANE GRID COORDINATES					
Horiz. Datum:		NAD83 (2011) Ohio State Plane, North Zone (3401)		Vert. Datum: NAVD88	
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
CP01	158610.0538	664212.9607	314.837	520373.1515	2179172.0218
CP02	158811.4248	664213.6104	315.988	521033.8162	2179174.1534
CP03	158923.0259	664211.8697	316.639	521399.9608	2179168.4425
CP04	159053.7932	664214.0621	320.657	521828.9865	2179175.6354
BM01	158807.9646	664210.7189	316.652	521022.4637	2179164.6670
BM02	158902.8998	664224.7123	317.081	521333.9303	2179210.5771

EXISTING MONUMENTATION CENTERLINE OF RIGHT OF WAY STATE ROUTE 094							
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
MN01	419+23.20	0.00	RT	522691.154	2179421.732	1112.90	MONBOX
MN10	396+88.50	-0.02	LT	520456.457	2179419.967	1033.91	MONBOX
MN11	392+94.76	0.00	RT	520062.719	2179419.680	1034.26	MONBOX

EXISTING CENTERLINE CONTROL POINTS	
NAME	DESCRIPTION
MN01	3/4" Rebar Found in Monument Box Assembly
MN10	3/4" Rebar Found in Monument Box Assembly
MN11	3/4" Rebar Found in Monument Box Assembly

STATE PLANE GRID COORDINATES					
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN01	159299.8830	664219.4423	339.213	522636.366	2179193.287
MN10	158618.8173	664218.9045	315.137	520401.903	2179191.523
MN11	158498.8183	664218.8169	315.244	520008.206	2179191.235

CENTERLINE OF RIGHT OF WAY STATE ROUTE 094							
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
MN01	419+23.20	0.00	RT	522691.154	2179421.732	1112.90	MONBOX
MN11	392+94.76	0.00	RT	520062.719	2179419.680	1034.26	MONBOX

CENTERLINE ALIGNMENT	
NAME	DESCRIPTION
MN01	3/4" Rebar Found in Monument Box Assembly
MN11	3/4" Rebar Found in Monument Box Assembly

STATE PLANE GRID COORDINATES					
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN01	159299.8830	664219.4423	339.213	522636.366	2179193.287
MN11	158498.8183	664218.8169	315.244	520008.206	2179191.235

EXISTING MONUMENTATION CENTERLINE OF RIGHT OF WAY WOLF CREEK TRAIL (T.H. 435)							
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
MN17	8+64.14	0.00	RT	521525.116	2178970.887	1112.90	MONBOX
POT	13+14.13	0.00	RT	521517.399	2179420.815		CALC'D

EXISTING CENTERLINE CONTROL POINTS & ALIGNMENT	
NAME	DESCRIPTION
MN17	5/8" Iron Pin Found in Pavement Core & Used
POT	Calculated Point

STATE PLANE GRID COORDINATES					
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
MN17	158944.5111	664082.0389	339.213	521470.450	2178742.489
POT	158942.1593	664219.1630	0.000	521462.734	2179192.371

Grid to Ground Multiplier (1/CSF) = 1.00010483 State Plane Grid to Project Ground (same units)
 Project Adjustment Factor (PAF) = 3.28117726 State Plane Grid (meters) to Project Ground (US Survey Feet)
 English to metric conversion = 3.28083333 US Survey foot to meters conversion factor
 PROJECT coordinates are scaled from GRID coordinates about the Ohio North Zone grid point N=0, E=0 (N 39° 27' 01.76097", W 89° 28' 32.98476").

Unitless Factor:
 The Grid to Ground Multiplier for the project was computed by taking the inverse of the TBC-generated combined scale factor for: CP01
Primary Project Control:
 Horizontal control was positioned with a minimum of 5 VRS-derived GNSS observations. Vertical control was established by differential leveling. All positions are in conformance to the ODOT Surveying and Mapping

PROJECT GROUND COORDINATES - US SURVEY FEET							
Project coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of:							3.28117726
C/L of Right-of-Way SR 094		MED-94-(12.000)(12.640)(13.020) used for alignment					
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
IPS1	395+96.39	55.00	RT	520364.301	2179474.915		IPS W/CAP
IPS2	400+62.23	55.00	RT	520830.141	2179475.279		IPS W/CAP
IPS3	401+92.23	55.00	RT	520960.141	2179475.380		IPS W/CAP
IPS4	403+22.23	55.00	RT	521090.141	2179475.482		IPS W/CAP
IPS5	404+22.23	55.00	RT	521190.141	2179475.560		IPS W/CAP
IPS6	405+22.23	55.00	RT	521290.141	2179475.638		IPS W/CAP

PROPOSED RIGHT OF WAY MONUMENTS	
NAME	DESCRIPTION
IPS1	
IPS2	
IPS3	
IPS4	
IPS5	
IPS6	

STATE PLANE GRID COORDINATES					
Horiz. Datum:		NAD83 (2011) Ohio State Plane, North Zone (3401)		Vert. Datum: NAVD88	
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
IPS1	158590.7312	664235.6509	0.000	520309.757	2179246.465
IPS2	158732.7046	664235.7618	0.000	520775.548	2179246.828
IPS3	158772.3245	664235.7927	0.000	520905.535	2179246.930
IPS4	158811.9444	664235.8237	0.000	521035.521	2179247.031
IPS5	158842.4213	664235.8474	0.000	521135.511	2179247.109
IPS6	158872.8981	664235.8712	0.000	521235.500	2179247.188

PROJECT GROUND COORDINATES - US SURVEY FEET							
Project coordinates (U.S. Survey Feet) are relative to State Plane Grid coordinates (meters) by a Project Adjustment Factor of:							3.28117726
C/L of Right-of-Way SR 094		MED-94-(12.000)(12.640)(13.020) used for alignment					
NAME	STATION	OFFSET (US FT)	RT/LT	NORTH (US FT)	EAST (US FT)	ELEVATION (US FT)	FEATURE
2228	404+79.45	-30.19	LT	521247.433	2179390.413		5/8" Iron Pin Found & Used for Property Line
2229	403+04.45	-30.14	LT	521072.433	2179390.328		Iron Pin Found w/Cap (Cunningham PS 5274)
2230	396+88.78	29.64	RT	520456.713	2179449.631		Iron Pin Found w/Cap (Cunningham PS 5274)
5000	400+62.46	29.95	RT	520830.398	2179450.225		Iron Pin Found w/Cap (ComerstonePS 7265)
5001	401+92.10	29.87	RT	520960.031	2179450.250		Iron Pin Found w/Cap (ComerstonePS 7265)
5002	405+21.86	29.97	RT	521289.798	2179450.603		5/8" Bent Iron Pin Found
5005	411+42.32	-30.45	LT	521910.302	2179390.675		5/8" Iron Pin Found & Used for Property Line
5006	408+67.21	29.62	RT	521635.142	2179450.523		1-1/4" Iron Pipe Found & Used for Property Line
5007	407+92.28	29.88	RT	521560.218	2179450.728		Iron Pin Found w/Cap (Cappelli PS 7571))
MN20	405+24.54	-344.91	LT	521292.764	2179075.726		Iron Pin Found w/Cap (6688)
MN22	404+79.80	-344.95	LT	521248.127	2179075.658		5/8" Bent Iron Pin Found

EXISTING BOUNDARY MONUMENTS	
NAME	DESCRIPTION
2228	5/8" Iron Pin Found & Used for Property Line
2229	Iron Pin Found w/Cap (Cunningham PS 5274)
2230	Iron Pin Found w/Cap (Cunningham PS 5274)
5000	Iron Pin Found w/Cap (ComerstonePS 7265)
5001	Iron Pin Found w/Cap (ComerstonePS 7265)
5002	5/8" Bent Iron Pin Found
5005	5/8" Iron Pin Found & Used for Property Line
5006	1-1/4" Iron Pipe Found & Used for Property Line
5007	Iron Pin Found w/Cap (Cappelli PS 7571))
MN20	Iron Pin Found w/Cap (6688)
MN22	5/8" Bent Iron Pin Found

STATE PLANE GRID COORDINATES					
Horiz. Datum:		NAD83 (2011) Ohio State Plane, North Zone (3401)		Vert. Datum: NAVD88	
NAME	NORTH (m)	EAST (m)	ORTHO HT (m)	NORTH (US FT)	EAST (US FT)
2228	158859.8821	664209.8973	0.000	521192.796	2179161.971
2229	158806.5475	664209.8714	0.000	521017.815	2179161.886
2230	158618.8954	664227.9451	0.000	520402.159	2179221.183
5000	158732.7829	664228.1261	0.000	520775.805	2179221.777
5001	158772.2909	664228.1338	0.000	520905.424	2179221.802
5002	158872.7936	664228.2413	0.000	521235.157	2179222.155
5005	159061.9037	664209.9772	0.000	521855.596	2179162.233
5006	158978.0436	664228.2170	0.000	521580.465	2179222.075
5007	158955.2091	664228.2794	0.000	521505.549	2179222.280
MN20	158873.6975	664113.9905	0.000	521238.123	2178847.317
MN22	158860.0934	664113.9698	0.000	521193.490	2178847.249

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP AND PROPOSED CONCRETE MONUMENTS (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

TOTAL NUMBER OF :
 7 OWNERSHIPS 0 TOTAL TAKES
 11 PARCELS 1 OWNERSHIP W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

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

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS	AS ACQUIRED	
											LEFT	RIGHT			BOOK	PAGE
1	STATE OF OHIO	5,-6	INST# 2003OR017796	033-12D-03-028	1.1600								FEDERAL 80% STATE	NO ADDITIONAL RIGHT OF WAY REQUIRED ENTIRE PARCEL IS ODOT RIGHT OF WAY IN FEE SIMPLE TITLE		
2-WD	SHARON TOWNSHIP BOARD OF TRUSTEES	5,6,7,8	INST# 2014OR014684	033-12D-03-030	42.0000	0.2572	0.4981	0.2572	0.2409			41.5019	20%	30' WIDE SANITARY SEWER EASEMENT INST. #000484000608 (VOL. 484, PG. 608) 0.2409 AC. OVERLAPS SANITARY SEWER EASEMENT REMOVAL OF 10-12" TO 24" TREES AND 2 METAL POSTS		
2-T						0.0000	0.0115	0.0000	0.0115					FOR REMOVAL OF 3 TREES 0.0057 AC. OVERLAPS SANITARY SEWER EASEMENT		
3-WD	SHANNON M. BLOWER AND SHERIE L. BLOWER	7, 8	INST# 2004OR037057	033-12D-03-025	1.9578	0.0895	0.1641	0.0895	0.0746			1.7937		20' WIDE SANITARY SEWER EASEMENT INST. #000490000103 (VOL. 490, PG. 103) 0.0597 AC. OVERLAPS SANITARY SEWER EASEMENT REMOVAL OF 13-6" TO 24" TREES AND 2 METAL T-POSTS		
3-T						0.0000	0.0092	0.0000	0.0092					FOR TEMPORARY DRIVE AND EXTEND WATER SERVICE		
4-WD	MICHELLE M. STROUP	7, 8	INST# 2011OR011680	033-12D-03-026	5.9500	0.0895	0.1641	0.0895	0.0746			5.7859		20' WIDE SANITARY SEWER EASEMENT INST. #000490000103 (VOL. 490, PG. 103) 0.0597 AC. OVERLAPS SANITARY SEWER EASEMENT *1 TREE, REMOVAL OF 7-6" TO 10" TREES, 1 PVC POST, 2 LANDSCAPE ROCKS, AND 2 LANDSCAPE LIGHTS		
4-T						0.0000	0.0212	0.0000	0.0212	YES				FOR TEMPORARY DRIVE AND EXTEND WATER SERVICE		
5-T	SCOTT A. MYERS AND LESLIE A. MYERS, TRUSTEES OR THEIR SUCCESSORS IN TRUST UNDER THE SCOTT A. MYERS LIVING TRUST AND THE LESLIE A. MYERS LIVING TRUST DATED NOVEMBER 16, 1994	7, 8	INST# 2013OR015261	033-12C-10-049 033-12C-10-048 033-12C-10-045 033-12C-10-050	0.2100 1.4067 0.9400 2.7255	0.0000 0.1481 0.0000 0.1274	0.0034	0.0000	0.0034					FOR GRADING 45' WIDE STORM SEWER EASEMENT - PLAT BK. 23, PG. 07 0.0034 AC. OVERLAPS UTILITY EASEMENT		
TOTAL					5.2822	0.2755	0.0034	0.0000	0.0034							
6-WD	F. MARK JACKSON AND GLENNA S. JACKSON, TRUSTEES, OR THEIR SUCCESSORS IN TRUST, UNDER THE JACKSON LIVING TRUST, DATED MARCH 25, 1998	7, 8	INST# 1998OR015146	033-12D-03-021	6.5100	0.0689	0.1263	0.0689	0.0574			6.3837		20' WIDE SANITARY SEWER EASEMENT INST. #000490000103 (VOL. 490, PG. 103) 0.0459 AC. OVERLAPS SANITARY SEWER EASEMENT LINDA K. BRANDEL (DECEASED) RETAINS MINERAL RIGHTS REMOVAL OF 2-15" TO 18" TREES AND 1 LANDSCAPE ROCK		
6-T						0.0000	0.0230	0.0000	0.0230					FOR TEMPORARY DRIVE, TREE REMOVAL, AND EXTEND WATER REMOVE 1-40" TREE		
7-WD	DAVID M. LANCASTER AND JODI L. LANCASTER	7, 8	INST. #000981000915 O.R. 981, PG. 915	033-12D-03-022	13.4600	0.0689	0.1263	0.0689	0.0574			13.3337		20' WIDE SANITARY SEWER EASEMENT INST. #000490000103 (VOL. 490, PG. 103) 0.0207 AC. OVERLAPS SANITARY SEWER EASEMENT SANITARY SEWER EASEMENT INST. #000490000036 (VOL. 490, PG. 36) 0.0252 AC. OVERLAPS SANITARY SEWER EASEMENT LINDA K. BRANDEL (DECEASED) RETAINS MINERAL RIGHTS REMOVAL OF 2-24" TO 30" TREES		
8-T	WOLF CREEK TRAIL, LLC, AN OHIO LIMITED LIABILITY COMPANY	7,8,9	INST# 2012OR000457	033-12C-10-033	1.4500	0.0000	0.0035	0.0000	0.0035					FOR GRADING 45' WIDE STORM SEWER EASEMENT - PLAT BK. 23, PG. 07 0.0017 AC. OVERLAPS STORM SEWER EASEMENT		
9	ARTHUR M. LANCASTER AND EUNICE M. LANCASTER AND DAVID M. LANCASTER	7,8,9	INST. #000981000913 O.R. 981, PG. 913	033-12D-03-019	1.9200								FEDERAL 80% STATE 20%	NO ADDITIONAL RIGHT OF WAY REQUIRED		

FEDERAL PROJECT NO. E140 (783)
 PID NO. 90938
 STATE JOB NO. 438208
 R/W DESIGNER ARP
 R/W REVIEWER SAH
SUMMARY OF ADDITIONAL RIGHT OF WAY
MED -94-7.66

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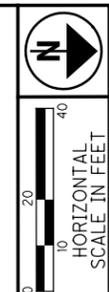
NOTES:
 UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
 ALL TEMPORARY PARCELS TO BE OF 12 MONTHS DURATION.
 ALL AREAS IN ACRES.

LEGEND:
 WD: WARRANTY DEED
 T: TEMPORARY EASEMENT

DOCUMENT LEGEND:
 INST# = INSTRUMENT NUMBER
 O. R. = OFFICIAL RECORD VOLUME

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION
	04/26/19	



PID NO.
90938

R/W DESIGNER
ARP
R/W REVIEWER
SAH

RIGHT OF WAY BOUNDARY SHEET
STA. 394+50 TO STA. 400+00

MED-94-7.66

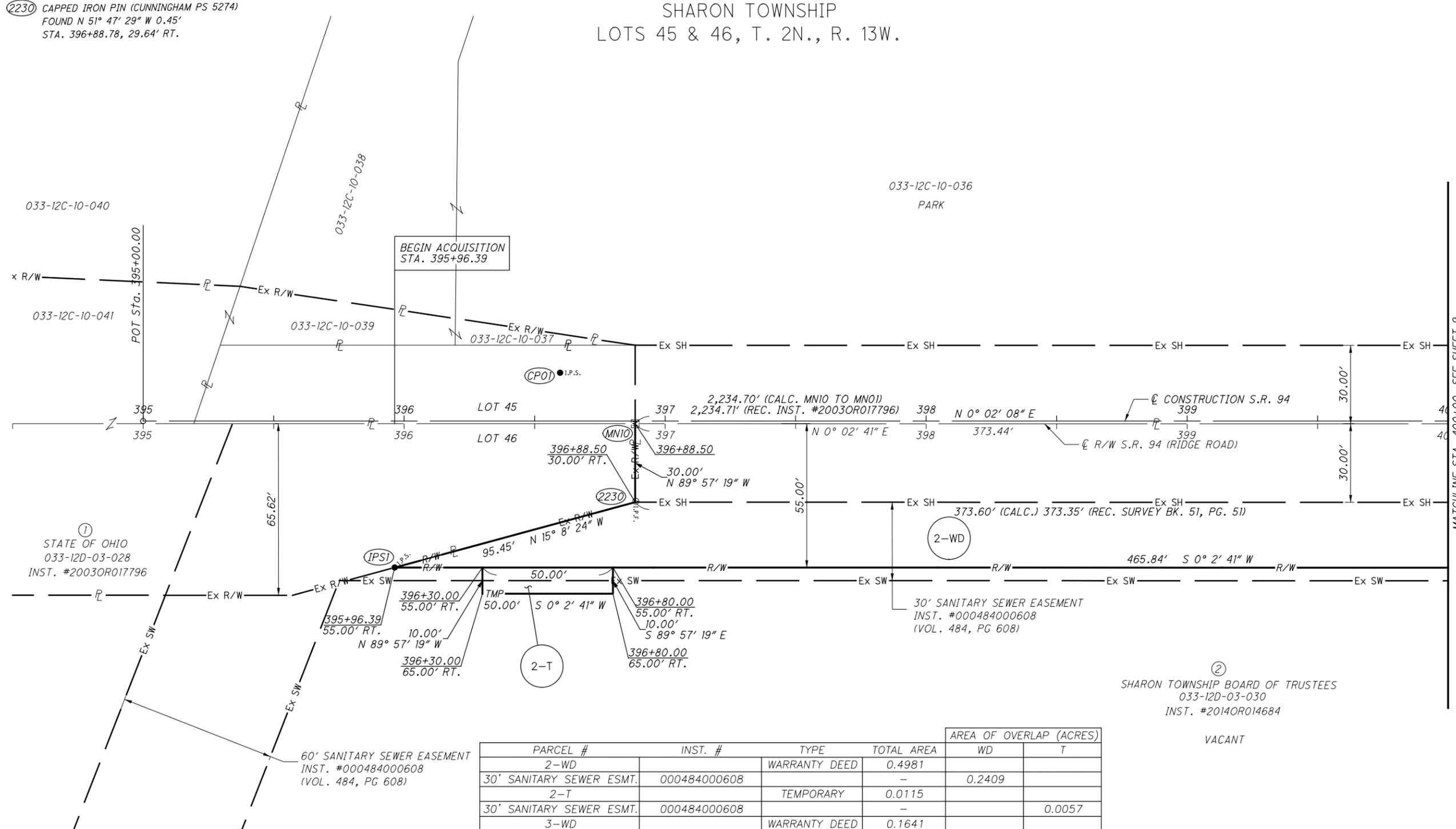
7 / 10

46
49

MED-94-7.66
(RIDGE ROAD)
MEDINA COUNTY
SHARON TOWNSHIP
LOTS 45 & 46, T. 2N., R. 13W.

(MN10) EXISTING MONUMENTATION
MONUMENT BOX W/ 3/4" IRON
PIN FOUND AND USED FOR PROPERTY LINE
N 89° 57' 19" W, 0.02'
STA. 396+88.50, 0.02' LT.

(2230) CAPPED IRON PIN (CUNNINGHAM PS 5274)
FOUND N 51° 47' 29" W 0.45'
STA. 396+88.78, 29.64' RT.



① STATE OF OHIO
033-12D-03-028
INST. #2003OR017796

② SHARON TOWNSHIP BOARD OF TRUSTEES
033-12D-03-030
INST. #2014OR014684

VACANT

60' SANITARY SEWER EASEMENT
INST. #000484000608
(VOL. 484, PG 608)

30' SANITARY SEWER EASEMENT
INST. #000484000608
(VOL. 484, PG 608)

PARCEL #	INST. #	TYPE	TOTAL AREA	AREA OF OVERLAP (ACRES)	
				WD	T
2-WD		WARRANTY DEED	0.4981		
30' SANITARY SEWER ESMT.	000484000608		-	0.2409	
2-T		TEMPORARY	0.0115		
30' SANITARY SEWER ESMT.	000484000608		-		0.0057
3-WD		WARRANTY DEED	0.1641		
20' SANITARY SEWER ESMT.	000490000103		-	0.0597	
4-WD		WARRANTY DEED	0.1641		
20' SANITARY SEWER ESMT.	000490000103		-	0.0597	
5-T		TEMPORARY	0.0034		
45' STORM SEWER ESMT.	PLAT VOL. 23 PG. 7				0.0034
6-WD		WARRANTY DEED	0.1263		
20' SANITARY SEWER ESMT.	000490000103		-	0.0459	
7-WD		WARRANTY DEED	0.1263		
20' SANITARY SEWER ESMT.	000490000103		-	0.0207	
SANITARY SEWER ESMT.	000490000036		-	0.0252	
8-T		TEMPORARY	0.0017		
45' STORM SEWER ESMT.	PLAT VOL. 23 PG. 7				0.0017

NOTES:

1. FOR STATION & OFFSETS OF EXISTING MONUMENTATION, SEE CENTERLINE PLAT SHEET 3.

REV. BY	DATE	DESCRIPTION
	04/26/19	

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MATCHLINE STA. 400+00, SEE SHEET 9

