CITY OF ELYRIA LORAIN COUNTY, OHIO OVERBROOK PUMP STATION II DESIGN

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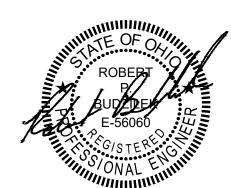
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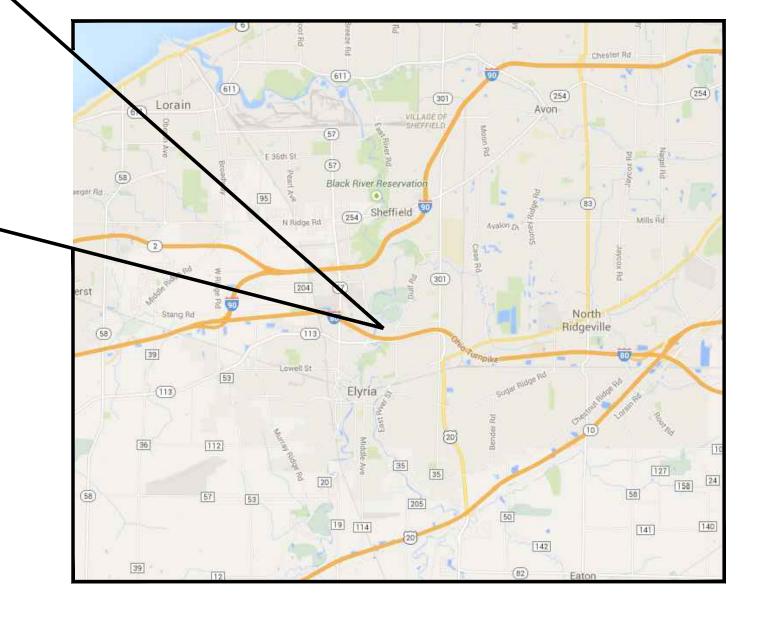
08/15/2024

BOB BUDZILEK, P.E.

DATE

CLEVELAND, OH 44114 216.622.2300 tel 216.622.2301 fax





PREPARED FOR:

CITY OF ELYRIA

KEVIN BRUBAKER, MAYOR CHRIS PYANOWSKI, SAFETY-SERVICE DIRECTOR KATHY McKILLIPS, P.E., CITY ENGINEER SHAYNE STEWART, PLANT SUPERINTENDENT

VICINITY MAP

NOT TO SCALE

8-12-24 DATE **KEVIN BRUBAKER** MAYOR

ACCEPTED BY THE CITY OF ELYRIA

8/12/24 DATE **CHRIS PYANOWSKI SAFETY-SERVICE DIRECTOR**

KATHY McKILLIPS, P.E CITY ENGINEER ASST.

BID DOCUMENTS 08.15.2024



LEGEND MANHOLE ROADWAY CURB ROAD CENTERLINE PIPE OR DUCT AND MANHOLE SMALLER THAN 36"Ø NATURAL GAS LINE ______ SANITARY SEWER PIPE (36" DIAM. OR LARGER) STORM SEWER _____ PROPERTY LINE WATER LINE _ · _ · _ · _ · _ · _ · _ · _ · _ CHAIN LINK FENCE OVERHEAD ELECTRIC CABLE BOX **POWER POLE** DRAIN INLET LIGHT POLE (CATCH BASIN) \bowtie GATE VALVE P.K.S. P.K. NAIL SET 404 WATER VALVE **GROUND ELEVATION** + EL. 136.30 WATER SERVICE VALVE EX. TREES **HYDRANT** EX. TREE TO BE $\mathcal{C}_{\mathcal{O}}$ REMOVED CLEAN OUT SOIL BORING GAS VALVE MAILBOX GAS SERVICE / METER TRUNCATED DOME EX. SIGN ADA RAMP **ABBREVIATIONS**

SC .	BITUMINOUS CURB	MB	METER BOX
it. Conc.	BITUMINOUS CONCRETE	MET	METER
Br.	BRICK	MH	MANHOLE
втм	ВОТТОМ	N/F	NOW OR FORMERLY
BDH	CONCRETE BOUND WITH DRILL HOLE	OHW	OVERHEAD WIRES
BN	CATCH BASIN	ORN	ORNAMENTAL
CI .	CAST IRON	PVC	POLYVINYLCHLORIDE
LF	CHAIN LINK FENCE	PW	PLANT WATER
MP	CORRUGATED METAL PIPE	R	RIM
ONC.	CONCRETE	R.C.P.	REINFORCED CONCRETE PIPE
DEC	DECANT	RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
)	DUCTILE IRON PIPE	RTW	RETAINING WALL
MH	DRAIN MANHOLE	SB/DH	STONE BOUND WITH DRILL HOLE
ND	DO NOT DISTURB	SMH	SEWER MANHOLE
	ELECTRIC	STA.	STATION
EM 	ELECTRIC METER	STY. WD.	STORY WOOD
FF 	EFFLUENT	TBR	TO BE REMOVED
EL ·v	ELEVATION EXISTING	TBRR	TO BE REMOVED AND REPLACED
X L	FLOOR	TEMP.	TEMPORARY
<u>.</u>	GAS	T.O.F.	TOP OF FRAME
SV	GATE VALVE		
IDG	HEDGE	TYP	TYPICAL
IP	HANDICAP PARKING	UP/LP	UTILITY POLE/LIGHT POLE
IYD	HYDRANT	VC	VITRIFIED CLAY
NF	INFLUENT	W	WATER
VV.	INVERT	WAS	WASTE ACTIVATED SLUDGE
D.	INSIDE DIAMETER IRON PIPE FOUND	WG	WATER GATE
PFND	INOIN FIFE FOUND	WS	WATER SHUTOFF

GENERAL CONSTRUCTION NOTES

- I. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF ELYRIA CODIFIED ORDINANCES AND STANDARDS AND THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CURRENT EDITION), AND ODOT STANDARD DRAWINGS, AS INDICATED.
- 2. THE LOCATION, TYPE, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND PIPES AND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT. THE ENGINEER MAKES NO GUARANTEES AS TO THEIR ACCURACY OR COMPLETENESS. EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION IN THE
- 3. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITY LINES DURING THE INSTALLATION OF THE SEWER AND WATER LINE AND APPURTENANCES. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- 1. EACH RESIDENCE IS SERVICED BY UNDERGROUND SANITARY, STORM, GAS, WATER, CABLE TV, ELECTRIC AND TELEPHONE REGARDLESS IF THEY ARE SHOWN ON THE PLANS, OR NOT. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND PROVIDE SUPPORT WHERE NECESSARY.
- . CONTRACTOR SHALL ASSUME ALL RISKS AS TO THE NATURE AND BEHAVIOR OF THE SOIL WHICH MAY BE ENCOUNTERED, INCLUDING ANY DIFFERENCES THAT MAY BE DUE TO ROCK, QUICKSAND, OR OTHER UNFAVORABLE CONDITIONS. THE CONTRACTOR MAY CONDUCT SUBSURFACE TESTS AND INVESTIGATIONS AS DEEMED NECESSARY PRIOR TO SUBMISSION OF
- . WORKING HOURS WITHIN THE CITY ARE 7:00 AM TO 8:00 PM MONDAY THROUGH FRIDAY; HOWEVER CONTRACTOR MAY BE PERMITTED TO WORK ALTERNATIVE HOURS AND WEEKENDS, IF APPROVED BY THE CITY ENGINEER.
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWERS ARE PROHIBITED PER CITY OF ELYRIA'S CODIFIED ORDINANCE SECTION 932.03.
- . PREMIUM BACKFILL TO BE PLACED AND COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY IN ALL TRENCHES UNDER PAVEMENT, OR DRIVE AREAS AND EXTEND 5' BEYOND THE PAVEMENT, OR DRIVE EDGE ON EITHER SIDE. PREMIUM BACKFILL SHALL BE ODOT 304 LIMESTONE.
- 9. ALL EXISTING GAS MAINS SHOWN IN PROFILE ARE ASSUMED TO HAVE 3' COVER.
- 10. ALL EXISTING WATER MAINS SHOWN IN PROFILE ARE ASSUMED TO HAVE A MINIMUM OF 4.5' COVER.
- 11. ALL EXISTING UNDERGROUND ELECTRIC CONDUIT IN PROFILE ARE ASSUMED TO HAVE A MINIMUM OF 3' COVER.
- 12. CONTRACTOR TO COORDINATE RELOCATION WITH ALL UTILITY COMPANIES SO AS NOT TO DELAY CONSTRUCTION.
- 13. THE TERMS "OWNER", " DEPARTMENT", "CITY", AND "CITY OF ELYRIA" ARE USED INTERCHANGEABLY.
- 14. CONSTRUCTION STAGING AND STORAGE AREAS SHALL BE COORDINATED AND OBTAINED BY THE CONTRACTOR.
- 15. IN AREAS WHERE ROADS NEED TWO WAY TRAFFIC AND WHERE ENTIRE DRIVE APRONS ARE AFFECTED BY WORK, THE CONTRACTOR SHALL USE ODOT MEDIUM SET (MS)), OR FAST SET (FS) CONCRETE MIX TO MAINTAIN ACCESS TO RESIDENCE AND FULLY OPEN ROADS TO THE FLOW OF TWO WAY TRAFFIC WITHIN 24 HOURS.

- 16. UTILITIES: AT LEAST TWO (2) WORKING DAYS BEFORE BREAKING GROUND, CONTRACTOR SHALL NOTIFY ALL PUBLIC SERVICE AGENCIES HAVING WIRE. POLES. PIPE. CONDUITS. MANHOLES. OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT. FOR WATER, STORM AND SANITARY UTILITIES OWNED BY THE CITY OF ELYRIA, THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS IN ADVANCE OF PERFORMING WORK.
- THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS.
- OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY). OGPUPS 1-800-925-0988.
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF UTILITIES AS REQUIRED BY SECTION 153.64 ORC.
- LISTED BELOW ARE ALL IDENTIFIED UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR

UTILITIES **ENGINEERING** CITY OF ELYRIA 131 COURT STREET ELYRIA, OHIO 44035 PHONE (440) 326-1444 PROJECT CONTACT: KATHY McKILLIPS kmckillips@cityofelyria.org WASTE WATER POLLUTION CONTROL CITY OF ELYRIA TERRY KORZAN 1194 GULF ROAD ELYRIA, OHIO 44035

PHONE (440) 366-2211 EXT. 5100

tkorzan@cityofelyria.org

CITY OF ELYRIA

DAVE ROTHGERY

851 GARDEN STREET

PHONE (440) 322-2927

drothgery@cityofelyria.org

ELYRIA, OHIO 44035

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ELECTRIC

OHIO EDISON

DOUGLAS LINN

6326 LAKE AVENUE

ELYRIA, OHIO 44035

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CABLE SPECTRUM MARTY VANKUREN **576 TERNES AVENUE** ELYRIA, OHIO 44035 PHONE (216) 854-0755 marty.vankuren@charter.com CABLE

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- 17. THE CITY WILL ALLOW THE CONTRACTOR TO USE WATER FROM A DESIGNATED HYDRANTS FOR CONSTRUCTION AT NO COST. A BACKFLOW PREVENTER AND WATER METER SHALL BE USED.
- 18. THE CONTRACTOR SHALL COORDINATE WITH THE CITY WATER DISTRIBUTION DEPARTMENT FOR ANY INTERRUPTION OF WATER SERVICE NECESSARY TO COMPLETE THE WORK. IF THE INTERRUPTION IS LONGER THAN 4 HOURS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR A TEMPORARY SERVICE.
- 19. ANY DRAIN TILE OR SEWER PIPE DISTURBED DURING CONSTRUCTION, DOCUMENTED ON THE PLANS OR NOT, SHALL BE RECONNECTED WITH LIKE MATERIAL AND JOINED BY AN APPROVED COUPLING. SEE DETAIL ON SHEET UD1.
- 20. WATER SERVICE RELOCATION, REFER TO DETAIL ON SHEET UD1.
- 21. ROADWAY CONSTRUCTION SHALL BE BASED ON THE CENTERLINE OF CONSTRUCTION REFERENCE THE TYPICAL ROAD SECTIONS ON SHEETS CD1. HORIZONTAL AND VERTICAL CONTROL FOR THE CENTERLINE OF CONSTRUCTION CAN BE FOUND IN THE CONTROL POINT TABLE.
- 22. IF ROAD RESTORATION WILL NOT BE COMPLETED BY NOVEMBER 23, 2024. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF TEMPORARY PAVEMENT. TO REMAIN IN PLACE UNTIL PERMANENT RESTORATION IS COMPLETED.
- 23. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA. AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS IF SUCH DISCOVERIES ARE UNCOVERED WITHIN THE PROJECT AREA.
- 24.UNAVOIDABLE CUTTING OF ANY SIZE TREES USED FOR ROOSTING AND BROOD REARING HABITAT FOR THREATENED AND ENDANGERED BAT SPECIES SHALL BE PERFORMED ONLY BEFORE APRIL 1 OR AFTER SEPTEMBER 30 WHEN THE BATS WOULD NOT BE USING SUCH HABITAT. IF TREE CUTTING WOULD NEED TO OCCUR OUTSIDE OF THIS TIME WINDOW, A SURVEY MUST BE COORDINATED WITH OHIO DIVISION OF NATURAL RESOURCES.
- 25.PROPERLY INSTALLED EROSION CONTROL BARRIERS (E.G., SILT FENCES, STRAW BALES, ETC.) SHOULD BE LOCATED ON SLOPES, ALONG STREAMS AND DRAINAGE WAYS, AROUND DRAINAGE STRUCTURES, AND ANYWHERE ELSE THAT EXPOSED SOIL COULD RUN OFF AND CREATE SEDIMENT PROBLEMS. ALL SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO STARTING CONSTRUCTION.

EXISTING UTILITIES:

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION. SCHEDULING AND PAYING FOR TEMPORARY OR PERMANENT RELOCATION OF UTILITIES NECESSARY TO COMPLETE THE WORK.

- 1. 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.
- 2. CONSTRUCTION VEHICLES AND MATERIALS SHOULD NOT BE STAGED OR STORED WITHIN THE DRIPLINE OF TREES.

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE EFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVISES BETWEEN THE HOURS OF 8 PM AND 7 AM. ANY DEVIATIONS TO THE HOURS OF OPERATION FOR POWER-OPERATED CONSTRUCTION-TYPE DEVICES MUST BE APPROVED BY THE FIELD ENGINEER. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY SUCH DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

NOTICE OF CONSTRUCTION:

1. THE CONTRACTOR SHALL PROVIDE NOTICE OF CONSTRUCTION IN WRITING TO THE FOLLOWING LOCAL AUTHORITIES A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF SCHEDULED WORK:

ELYRIA CITY POLICE DEPARTMENT ELYRIA CITY FIRE DEPARTMENT ELYRIA CITY SCHOOL DISTRICT UNITED STATES POST OFFICE

EXISTING UTILITY REMOVAL

1. COST FOR ALL UTILITIES TO BE REMOVED AS NECESSARY FOR CONSTRUCTION OR AS SHOWN ON THE PLAN AND PROFILE DRAWINGS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE NEW UTILITY TO BE INSTALLED WHICH NECESSITATES THE EXISTING UTILITY REMOVAL. I.E. THERE ARE NO BID UNITS COSTS FOR UTILITY REMOVAL

EXISTING UTILITY SERVICE LATERALS

ALL SERVICE LATERALS FOR SANITARY, STORM, WATER AND GAS TO BE MARKED IN THE FIELD. WHAT IS SHOWN ON PLANS FOR LATERALS ARE PLACE HOLDERS AND NOT NECESSARILY FROM OUPS OR PHYSICAL SURVEY. THE CONTRACTOR SHALL CALL OUPS FOR MARKING ALONG COORDINATING WITH THE CITY ENGINEERING AND WATER DEPARTMENTS FOR MARKING IN THE FIELD PRIOR TO EXCAVATION.

ITEM 204 - SUBGRADE COMPACTION, AS PER PLAN AND SUBGRADE REPAIRS:

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE

- FOLLOWING REMOVAL OF EXISTING AGGREGATE BASE, THE ENGINEER WILL INSPECT THE NEWLY EXPOSED SUBGRADE. THE SUBGRADE SHALL THEN BE PROOF ROLLED IN ACCORDANCE WITH ODOT ITEM 204.06. PRIOR TO SUBGRADE COMPACTION, THE ENGINEER WILL IDENTIFY THE AREAS OF UNSUITABLE SUBGRADE FOR REPAIR (SEE STEP 2). SUBSEQUENTLY, SUBGRADE SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 204.03. VIBRATORY ROLLERS SHALL NOT BE USED IN THE COMPACTION OF THE SUBGRADE. ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THE WORK AS DESCRIBED HEREIN COMPLETE IN PLACE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SUBGRADE COMPACTION, AS PER PLAN.
- 2. THE LIMITS DESIGNATED BY THE ENGINEER FOR EXCAVATION OF UNSUITABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS SHALL BE REPAIRED. STABILIZATION OF LOCALIZED AREAS SHALL BE ACHIEVED BY CONDITIONING THE SOIL TO ITS OPTIMUM MOISTURE CONTENT FOLLOWED BY ROLLING OR CHOKING WITH CRUSHED STONE. SUBSEQUENTLY, THE SUBGRADE SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 204.03. ALL MATERIAL, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THE WORK AS DESCRIBED HEREIN COMPLETE IN PLACE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SUBGRADE REPAIRS.

ITEM 407 - NON-TRACKING TACK COAT

CONTRACTOR SHALL SUPPLY 702.12 NON-TRACKING ASPHALT EMULSION AND FOLLOW ALL REQUIREMENTS OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 407 AND 702.12. ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THE WORK AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ASSOCIATED ASPHALT PAVEMENT BID ITEMS.

REVIEW OF DRAINAGE FACILITIES

- BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY OF ELYRIA, REPRESENTATIVES OF THE CITY OF ELYRIA AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CITY OF ELYRIA.
- 2. 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 WITH ALL RELATED COSTS BEING THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- 3. PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS

EXISTING TREES:

BEFORE THE START OF WORK, REPRESENTATIVES OF THE CITY OF ELYRIA AND THE CONTRACTOR SHALL CONDUCT A SURVEY OF THE EXISTING TREES WITHIN THE WORK ZONE AND IDENTIFY ANY TREE BRANCHES AT RISK OF DAMAGE BY SEWER CONSTRUCTION ACTIVITIES. IDENTIFIED BRANCHES SHALL BE PRUNED UNDER THE SUPERVISION OF AN ARBORIST. THE COST OF TREE TRIMMING SHALL BE INCLUDED IN THE CONTRACT PRICE OF THE SEWER.

UNDERDRAIN CONNECTIONS TO NEW AND EXISTING STRUCTURES:

UNDERDRAINS SHALL BE CONNECTED TO THE EXISTING AND NEW CATCH BASINS USING A TYPE F NON-PERFORATED CONDUIT. THE CONTRACTOR SHALL CONNECT THE UNDERDRAINS TO CONCRETE CATCH BASIN STRUCTURES BY CORING. SAWCUTTING OR USE OF OTHER METHODS IS NOT ALLOWED. UNDERDRAINS SHALL BE CONNECTED TO BRICK STRUCTURES BY CAREFULLY REMOVING BRICKS AND USING HYDRAULIC CEMENT TO SEAL THE ANNULAR SPACE AROUND THE CONDUIT.

SEEDING AND MULCHING

- THIS ITEM SHALL CONSIST OF FURNISHING SEED, AGRICULTURAL LIMITING MATERIALS, COMMERCIAL FERTILIZER, MULCHING MATERIAL AND WATER AND PLACING AND INCORPORATING AS SPECIFIED. THE AREA TO BE SEEDED AND PAID UNDER THIS ITEM SHALL INCLUDE ALL GRASS AREAS DESIGNATED BY THE ENGINEER WITHIN THE RIGHT OF WAY LIMITS OR WORK LIMIT, AND ALL AREAS OUTSIDE OF THE PROJECT LIMITS WHERE VEGETATIVE GROWTH HAS BEEN INJURIOUSLY DISTURBED OR DESTROYED BY THE CONTRACTOR. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF ODOT CMS ITEM 659.
- AREAS TO BE SEEDED SHALL BE FREE OF ROCK AND OTHER FOREIGN MATERIAL THREE INCHES (3) OR GREATER IN ANY DIMENSION AND SHALL BE SATISFACTORILY SHAPED AND FINISHED AS PROVIDED IN ODOT 203. IN ADDITION FOUR INCHES (4) OF TOPSOIL SHALL BE PLACED ON TOP OF THE SURFACE TO BE SEEDED PER ODOT 653.
- THE SEED SHALL BE THOROUGHLY MIXED AND THEN EVENLY SOWN OVER THE PREPARED AREAS AT A RATE LISTED BELOW. SEED SHALL BE SOWN DRY OR HYDRAULICALLY. ALL AREAS TO BE SEEDED IN THE PROJECT ARE CONSIDERED TO BE URBAN IN CHARACTER AND SHALL BE SEEDED WITH THE FOLLOWING MIXTURE (PERCENTAGES BY WEIGHT)

MIX 37.5%	KENTUCKY BLUEGRASS	RATE 3 LBS PER 1,000 SQUARE FEET
37.5%	CREEPING RED FESCUE	3 LBS PER 1,000 SQUARE FEET
25.0%	ANNUAL AND PERENNIAL RYEGRASS	2 LBS PER 1,000 SQUARE FEET

- 4. IMMEDIATELY AFTER SOWING, THE AREAS SHALL BE RAKED, DRAGGED, OR OTHERWISE TREATED TO COVER THE SEED TO A DEPTH OF APPROXIMATELY 1/4 INCH.
- 5. THE OPERATION OF SEED SOWING SHALL NOT BE PERFORMED WHEN THE GROUND IS FROZEN OR MUDDY, OR WHEN THE SOIL OR WEATHER CONDITIONS WOULD PREVENT THE PROPER SOIL PREPARATION AND SUBSEQUENT OPERATIONS. ALL SEEDING PERFORMED BETWEEN NOVEMBER 1 AND FEBRUARY 28 SHALL BE TEMPORARY IN ACCORDANCE WITH ODOT CMS 207, OR DORMANT SEEDING OR MULCHING.
- 6. WITHIN 24 HOURS AFTER GIVEN AREA IS SEEDED, MULCH CONFORMING TO ODOT 659.15 SHALL BE EVENLY PLACED OVER ALL SEEDED AREA AT THE RATES PRESCRIBED.
- 7. THE CONTRACTOR SHALL MAINTAIN ALL SEEDED AND MULCHED AREAS UNTIL FINAL INSPECTION. IF THE PROJECT ACHIEVES SUBSTANTIAL COMPLETION BETWEEN NOVEMBER 1 AND FEBRUARY 28 AND TEMPORARY SEEDING OR MULCHING IS PERFORMED IN THAT PERIOD, THE CONTRACTOR SHALL PERFORM FINAL SEEDING NO LATER THAN MAY 31ST. IF DORMANT SEEDING WAS USED BETWEEN NOVEMBER 1 AND FEBRUARY 28, THE CONTRACTOR SHALL RESEED OR REPAIR AND MULCH ANY AREA, WHICH DOES NOT HAVE GROWTH.
- 8. THE CONTRACTOR SHALL SUPPLY THE CITY WITH TEN (10) 40 LBS BAGS OF SCOTTS TURF BUILDER EZ SPREAD UPON FINAL ACCEPTANCE.

PROTECTION OF LANDSCAPING

1. THE CONTRACTOR SHALL TAKE CARE AS NOT TO DISTURB LANDSCAPING ITEMS LOCATED OUTSIDE THE RIGHT OF WAY. ANY DAMAGES CAUSED TO THESE ITEMS SHALL BE FULLY RESTORED OR REPLACED BY THE CONTRACTOR WITH ALL RELATED COSTS BEING THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

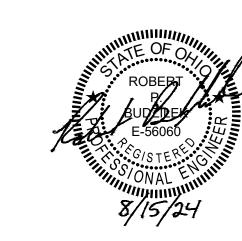
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REGISTRATION



ISSUE/REVISION

1	08/15/2024	BID DOCUMENTS
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60332065

SHEET TITLE

GENERAL NOTES AND LEGEND

SHEET NUMBER

Recycled Content Paper

LLIAMSCP\AECOM\OVERBROOK PS DESIGN - GENERAL\900-CAD-GIS\91

SANITARY SEWER CONSTRUCTION NOTES: 1. 4" TO 10" SANITARY SHALL BE PVC PIPING AS SHOWN ON THE PLANS AND

- 1. 4" TO 10" SANITARY SHALL BE PVC PIPING AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ASTM F794, WITH JOINTS PER ASTM D3212 AND INSTALLED PER ASTM D2321 WITH A BEDDING CLASSIFICATION PER ASTM D2321.
- 2. SANITARY SEWER PIPE CONSTRUCTION SHALL COMPLY WITH ODOT CMS SECTION 611, UNLESS OTHERWISE NOTED HEREIN.
- 3. ALL SEWER LINES SHALL BE INSPECTED PER ODOT 611.12 TO VERIFY ACCURACY OF ALIGNMENT AND FREEDOM FROM DEBRIS AND OBSTRUCTIONS. THE METHOD OF INSPECTION SHALL BE VIDEO RECORDING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TWENTY-FOUR (24) HOURS IN ADVANCE OF VIDEO RECORDING. THE CONTRACTOR SHALL CLEAN THE SEWER WITHIN TWENTY-FOUR HOURS PRIOR TO RECORDING. VIDEO RECORDING SHALL BE PERFORMED BY A FIRM EXPERIENCED IN TELEVISING AND RECORDING INSTALLED SEWER PIPE. THE CONTRACTOR SHALL SUBMIT TWO (2) COPIES OF ALL VIDEOS ON DVD OR CD COLOR VIDEO FORMAT AND TWO (2) COPIES OF A TYPEWRITTEN LOG OF THE CONTENTS OF THE VIDEOS. VIDEOS AND LOGS SHALL BE SUBMITTED TO THE OWNER
- 4. ALL MANHOLES SHALL BE WATERTIGHT STRUCTURES, PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478. CONNECTIONS BETWEEN SEWER PIPE AND NEW MANHOLE SHALL BE A-LOK OR APPROVED EQUAL MEETING ASTM C-923. CONCRETE SHALL BE CLASS A, 4,000 PSI, 28 DAY COMPRESSIVE STRENGTH. REINFORCING STEEL AND RING WALL DIMENSIONS SHALL BE AS SHOWN IN STANDARD ODOT MANHOLE NO. 3 DRAWING. LIFT HOLES, IF PROVIDED, SHALL BE WATERTIGHT AND FILLED WITH A NON-SHRINK GROUT AFTER SET IN PLACE. JOINTS SHALL BE FORMED ENTIRELY OF CONCRETE EMPLOYING A ROUND RUBBER GASKET (O-RING) CONFORMING TO ASTM C-443, SHALL BE SELF-CENTERING AND MAKE A UNIFORM WATERTIGHT JOINT. JOINTS DAMAGED DURING INSTALLATION SHALL BE REPLACED WITH NEW RING WALLS AS NEEDED.
- 5. THE CONTRACTOR SHALL PERFORM A MANHOLE VACUUM TEST FOLLOWING THE INSTALLATION OF THE MANHOLE BOTTOM, RING WALL(S) AND TOPS, OR CHIMNEY SECTIONS. ALL MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244. THE MANHOLE SHALL BE TESTED AT 10" OF MERCURY FOR 60 SECONDS AND MAY HAVE LESS THAN 1" REDUCTION. IF THE MANHOLE DOES NOT PASS THE VACUUM TEST, IT SHALL BE REPAIRED AS NEEDED THEN TESTED UNTIL THE MANHOLE PASSES. ALL TESTING SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND UNDER THE DIRECT OBSERVATION OF THE CITY ENGINEER OR HIS REPRESENTATIVE.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF FLOW IN ANY SANITARY SEWER IMPACTED BY CONSTRUCTION ACTIVITIES. BY-PASS PUMPING WILL BE REQUIRED DURING DAILY OPERATIONS WHERE THE EXISTING SANITARY SEWER IS TO BE REMOVED AND REPLACED. AT THE END OF EACH WORK DAY, THE EXISTING AND NEW SEWER SHALL BE TEMPORARILY TIED BACK TOGETHER AS NECESSARY TO MAINTAIN FLOW WITHOUT THE USE OF PUMPS. IF PUMPS ARE TO BE USED TO MAINTAIN FLOW DURING NOW WORKING HOURS, THEN THE CONTRACTOR IS RESPONSIBLE TO PROVIDE FULL TIME OVER-SIGHT TO VERIFY THAT THE PUMPS ARE OPERATING AND FLOW IS BEING MAINTAINED.

ESTIMATED BY PASS PUMPING FLOW RATES FOR EXISTING LOCAL SEWERS (FROM METERING & MODELING):

	DRY WEATHER	WET WEATHER (10YR - 2 H
OVERBROOK EAST	XXX GPM	XXX GPM
OVERBROOK NORTHEAST	XXX GPM	XXX GPM
PUMP STATION DISCHARGE SEWER	XXX GPM	XXX GPM

FLEXIBLE COUPLINGS:

- PROVIDE FLEXIBLE COUPLING THAT CONFORMS TO ASTM C1173 AND ASTM D5926 TO COUPLE NEW GRAVITY SEWER PIPE TO EXISTING GRAVITY SEWER PIPE. TIGHTENING BANDS SHALL BE SERIES 316 STAINLESS STEEL WITH STAINLESS STEEL NUT AND BOLTS. TIGHTENING CLAMPS 4-INCH DIAMETER TO 15-INCH DIAMETER COUPLING SHALL BE PROVIDED WITH A SERIES 300 STAINLESS STEEL SHEAR RING HAVING A MINIMUM THICKNESS OF 0.012 INCH.
- 2. APPROPRIATE COUPLINGS SHALL BE PROVIDED AT ALL JOINTS BETWEEN NEW AND EXISTING PIPES, UNLESS OTHERWISE SHOWN ON THE PLAN, AND SHALL CREATE A WATERTIGHT JOINT BETWEEN THE NEW AND EXISTING PIPES.

MAILBOXES

1. ANY MAILBOX REMOVED OR DISTURBED WITH CONSTRUCTION SHALL BE RESET IN A CONCRETE BASE AT ITS ORIGINAL LOCATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT'S BID PRICE FOR VARIOUS SEWER RELATED ITEMS. NO SEPARATE COMPENSATION WILL BE PAID BY THE CITY TO THE CONTRACTOR.

PERMITS

1. ALL RIGHT OF WAY OCCUPANCY PERMITS SHALL BE SECURED BY THE CONTRACTOR.

DISPOSAL OF REMOVED MATERIALS:

- 1. ALL PAVEMENT, CURBING, AND/OR SIDEWALK REMOVED BY THE CONTRACTOR AS PART OF THE WORK SHALL BE DISPOSED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. THE CONTRACTOR MAY DISPOSE THE ASPHALT GRINDINGS AT THE CITY OF ELYRIA CENTRAL MAINTENANCE GARAGE, LOCATED AT 851 GARDEN STREET.
- 2. ALL EXCAVATED MATERIAL REMOVED BY THE CONTRACTOR FROM UNDER THE ROADWAY FOR THE CONSTRUCTION OF THE SEWER OR MAIN SHALL BE DISPOSED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SHEETING / SHORING REQUIREMENTS:

1. THE CONTRACTOR SHALL HAVE A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, DESIGN THE SHEETING SHORING FOR THE TRENCH AT DEPTHS GREATER THAN 20 FEET.

SNOW REMOVAL:

FROM NOVEMBER 1 TO APRIL 1, CONTRACTOR SHALL NOTIFY ENGINEER OF ALL CONSTRUCTION PLATES PLACED IN CITY ROADWAYS. THE CITY WILL BE PERFORMING SNOW REMOVAL ON CITY ROADS. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SNOW FROM ROADS THAT ARE CLOSED OR LIMITED TO LOCAL ACCESS ONLY DUE TO CONSTRUCTION. IF A ROAD IS OPENED TO FULL TRAFFIC PRIOR TO COMPLETE RESTORATION, CONTRACTOR SHALL TAKE RESTORATION MEASURES NECESSARY TO FACILITATE PLOWING BY THE CITY. SUCH MEASURE SHALL BE APPROVED BY THE CITY PRIOR TO OPENING THE ROAD TO FULL TRAFFIC. CITY SNOW PLOWING OPERATIONS PILE SNOW ALONG THE STREET CURB. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SNOW OUTSIDE OF THE WORK ZONE TO ACCESS MATERIALS COVERED BY THE CITY'S SNOW REMOVAL OPERATIONS.

UTILITY POLE RELOCATION:

1. THE UTILITY ALLOWANCE BID ITEM SHALL BE USED FOR COSTS CHARGED TO THE PROJECT BY FIRST ENERGY AND OTHER UTILITY PROVIDERS TO RELOCATE THE EXISTING POWER POLE AT THE SE CORNER OF THE INTERSECTION OF DILWORTH ST. AND GULF RD. AND THE EXISTING LIGHT POLE ON DILWORTH ST. AS NOTED ON THE SEWER PLAN AND PROFILE DRAWINGS. ANY OTHER POLES TO BE TEMPORARILY RELOCATED SHALL BE DONE AT THE CONTRACTORS EXPENSE AS PART OF THE BID ITEM OF THE UTILITY WORK NECESSITATING THE POLE RELOCATION.

OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTES

1. A MINIMUM 18 INCH VERTICAL CLEARANCE AND 10 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWERS AND A MINIMUM 12 INCH VERTICAL CLEARANCE AND 4 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN MAINS AND STORM SEWERS. WHERE 10 FOOT HORIZONTAL CLEARANCE IS NOT FEASIBLE, A 10 FOOT RADIAL CLEARANCE SHALL BE PROVIDED.

CONSTRUCTION STAKING

1. AFTER PROJECT AWARD, THE CONTRACTOR SHALL BE PROVIDED THE SURVEY AND SEWER DESIGN CAD FILES FOR CONSTRUCTION STAKING AND LAYOUT. THE CONTRACTOR'S SURVEYOR WILL NEED TO USE THESE FILES TO LAYOUT THE ALIGNMENT OF THE SEWERS INCLUDING STAKING MH / STRUCTURE LOCATIONS.

AECOM

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OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

CONSULTANT

AECOM 1300 EAST 9TH STREET, SUITE 500 CLEVELAND, OH 44114 216.622.2300 tel 216.622.2301 fax www.aecom.com

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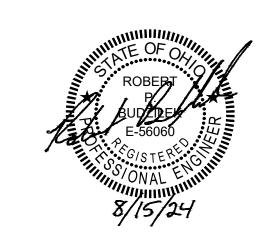
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GENERAL NOTES

EXISTING STORM AND SANITARY TABLE

SSMH 20076 RIM = 704.74INV=681.74 SAN BOTTOM OF DROP INV=692.71 8" PVC W

STMH 20091 RIM = 704.80INV=700.16 15" VCP NW INV=700.10 12" RCP SE (RECESSED)

INV=700.49 12" RCP SW STMH 20093

RIM = 704.44INV=697.08 15" RCP NW INV=701.39 6" VCP S INV=697.74 15" VCP SE INV=683.34 84" BR N & S

STMH 20101 RIM = 704.94COULD NOT OPEN

CBS 20162 RIM = 703.49INV=699.64 6" CPP W INV=699.19 12" RCP N BOTTOM=699.19

CBS 20241 RIM=703.69 INV=698.04 15" RCP SE (RECESSED) INV=698.29 12" RCP S

SSMH 20384 RIM = 704.88INV=693.45 8" PVC E INV=693.50 8" PVC NW

SSMH 20486 RIM = 704.40

INV=693.86 8" PVC SE INV=693.84 8" PVC SW

SSMH 20487 RIM = 704.50INV=694.08 8" PVC SE INV=694.18 8" PVC SW

SSMH 20547 RIM = 704.56

CBS 20614

INV=699.39 4" VCP NW INV=694.46 8" PVC NW

RIM = 703.35INV=701.99 4" PVC N INV=701.45 6" PVC S INV=701.43 6" PVC NW BOTTOM=701.35

SSMH 20954 RIM = 703.57

INV=695.52 8" PVC NE INV=695.51 8" PVC NW

SSMH 21194 RIM = 702.58INV=696.57 8" PVC SE INV=696.37 4" PVC SW SSMH 21195 RIM = 702.95INV=690.93 8" PVC SE

INV=690.92 8" PVC SW SSMH 21234 RIM = 703.70INV=692.10 8" PVC NE INV=691.97 8" PVC NW

SSMH 21452 RIM=698.49 INV=690.17 8" PVC NE INV=690.03 8" PVC SW

CB 21807 RIM=683.43 INV=680.93 6" VCP SW BOTTOM=680.73

SSMH 21989 RIM = 682.81INV=678.12 8" PVC NE INV=678.12 8" PVC SE INV=678.11 8" PVC NW

PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

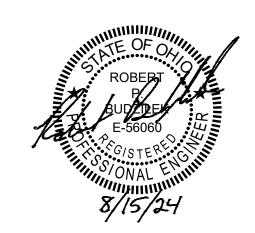
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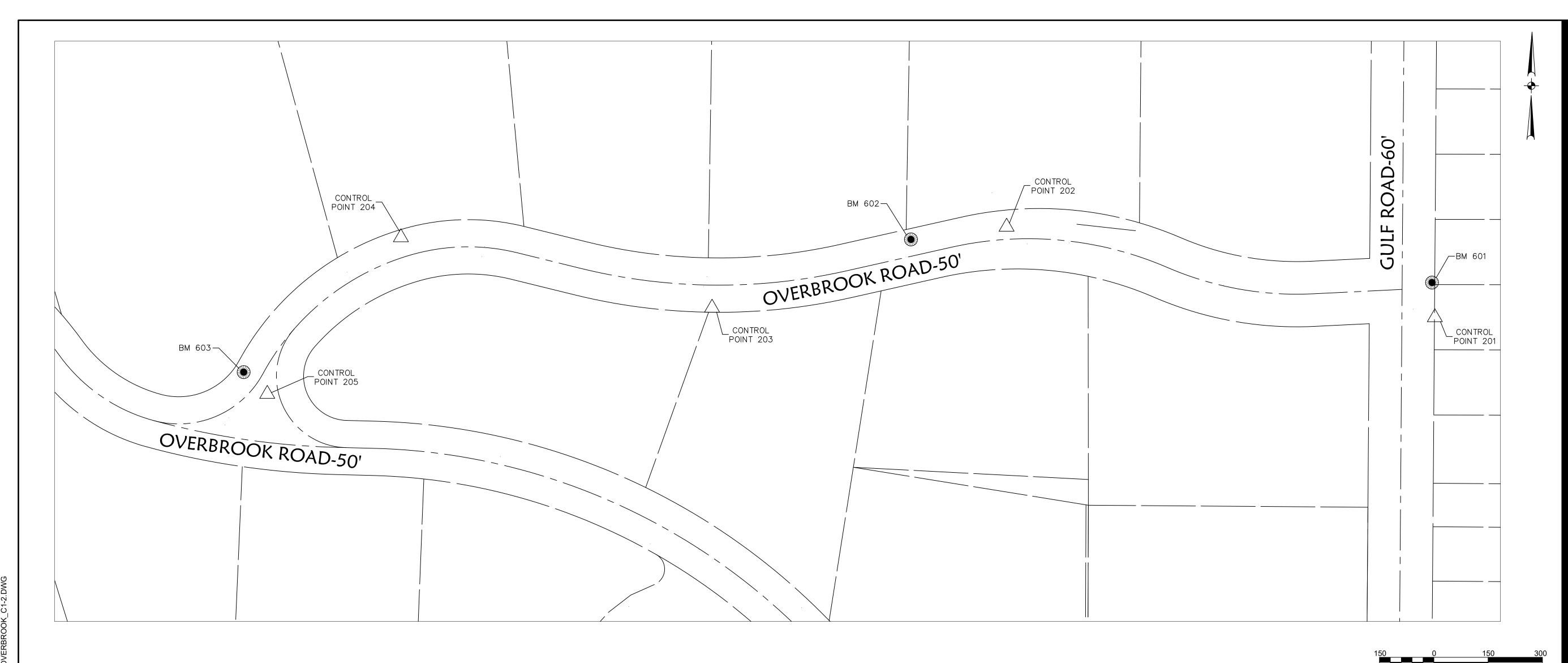
PROJECT NUMBER

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SHEET TITLE

EXISTING STORM & SANITARY TABLES

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SURVEYOR'S NOTES

- 1. HORIZONTAL DATUM IS OHIO STATE PLANE, NORTH ZONE NAD83(2011) GRID NORTH BASED ON GPS OBSERVATIONS PERFORMED ON 01-04-23.
- 2. VERTICAL DATUM IS NAVD 1988.
- 3. PERTINENT RECORDS USED ARE AS SHOWN HEREON.
- 4. THIS MAP AND THE SURVEY ON WHICH IT IS BASED HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.
- 5. THE UTILITIES, SEWERS AND THEIR LOCATIONS SHOWN HEREON ARE DERIVED FROM A COMBINATION OF FIELD SURVEYING OF VISIBLE UTILITY STRUCTURES, AVAILABLE PLANS AND A LEVEL C SUBSURFACE UTILITY INVESTIGATION. ACTUAL LOCATION OF UTILITIES MAY VARY FROM THE DEPICTED LOCATIONS. OTHER UNKNOWN UTILITIES MAY EXIST AND NECESSARY PRECAUTIONS SHOULD BE FOLLOWED WHEN EXCAVATING. ADDITIONAL INVESTIGATION SUCH AS VIDEOTAPING PIPE RUNS, NON-DESTRUCTIVE EXPOSURE OF UTILITIES MAY DETERMINE THE UNKNOWN UTILITY INFORMATION. CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 PRIOR TO EXCAVATION.
- 6. AS OF (JANUARY 23, 2023), THE FOLLOWING COMPANIES HAVE RESPONDED TO THE INITIAL OUPS REQUEST: A300302298, A300900391 FOR UTILITY PLANS: CITY OF ELYRIA ENGINEERING, COLUMBUS GAS OF OHIO, CHARTER COMMUNICATIONS, WINDSTREAM.

UTILITY REFERENCES

FIELD LOCATED BY KS ASSOCIATES FROM UTILITY MARKINGS.

COLUMBIA GAS OF OHIO PLANS.

CITY OF ELYRIA ENGINEERING PLANS.

FIRST ENERGY PLANS.

BENCH MARKS

BM 601: BENCH TIE SPIKE SET WEST FACE OF TELEPHONE POWER POLE #7044-003 LOCATED ON EAST SIDE OF GULF ROAD BETWEEN 941 AND 943 GULF ROAD.

ELEV=705.75

BM 602: MAG NAIL SET ON SOUTHWEST CORNER OF CONCRETE BASE FOR LIGHTPOLE ON NORTH SIDE OF OVERBROOK ROAD BETWEEN 656 AND 688 OVERBROOK

ELEV=703.43

BM 603:

MAG NAIL SET ON SOUTHEAST CORNER OF 2'X2' CONCRETE BASE FOR LIGHTPOLE ON NORTH SIDE OF OVERBROOK ROAD AT 578 OVERBROOK ROAD.

ELEV=689.38

CONTROL POINTS				
Point #	Northing	Easting	Elevation	Description
200	627301.21	2079854.12	701.23	CNPT IPINS
201	626775.03	2079848.55	705.14	CNPT MAGS
202	626858.31	2079454.37	704.55	CNPT IPINS
203	626783.80	2079183.22	704.46	CNPT IPINS
204	626848.57	2078896.86	701.56	CNPT IPINS
205	626704.51	2078773.85	687.78	CNPT IPINS

ABBREVIATIONS

STMH

TELE

TPP

VCP

W.M

ALUM	ALUMINUM
ASPH	ASPHALT
ВМ	BENCH MARK
BR	BRICK
CB	CATCH BASIN ROUND
CBS	CATCH BASIN SQUARE
C.L.F	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
ELEC	ELECTRIC
FEN	FENCE
MULTI	MULTIPLE
PVC	POLYVINYL CHLORIDE
PP	POWER POLE
RCP	REINFORCED CONCRETE PIPE
SAN	SANITARY PIPELINE
STL	STEEL
SSMH	SANITARY MANHOLE

STORM MANHOLE

TELEPHONE POWER POLE

VITRIFIED CLAY PIPE

TELEPHONE

WATER MAIN

LINETYPE LEGEND

(B) CATCH BASIN ROUND

CATCH BASIN SQUARE

(SA) SANITARY MANHOLE

(Î) TELEPHONE MANHOLE

闰 ELECTRIC PULL BOX

© ELECTRIC HAND HOLE

(ST) STORM MANHOLE

© CLEANOUT

(D) DRAIN/SPOUT

I TELEPHONE BOX

	-
	CENTERLINE
	PROPERTY LINE
	RIGHT OF WAY
ST	SANITARY SEWER
FM FM	FORCE MAIN
ST	STORM SEWER
	GAS LINE
w	WATER LINE
т	UNDERGROUND TELEPHONE
x	FENCE LINE
	TREELINE/HEDGELINE
OHE	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC/TELEPHON
	MAJOR CONTOUR
	MINOR CONTOUR

LEGEND

(∰) WATER VALVE

 九
 FIRE HYDRANT

• BENCH MARK

O IRON PIN/PIPE

M MONUMENT BOX

 \overline{R} TELEPHONE POWER POLE

 ϕ power pole

 ϕ LIGHT POLE

 \triangle KS CONTROL POINT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

CONSULTANT

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SCALE: 1" = 150'

EVERGREEN TREE

BUSH/SAPLING

IB NEWSPAPER BOX

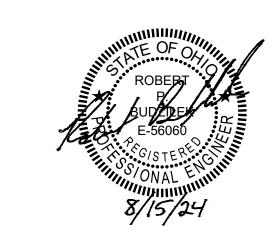
ETTREE

STUMP

□ ROCK

- SIGN

MB MAILBOX



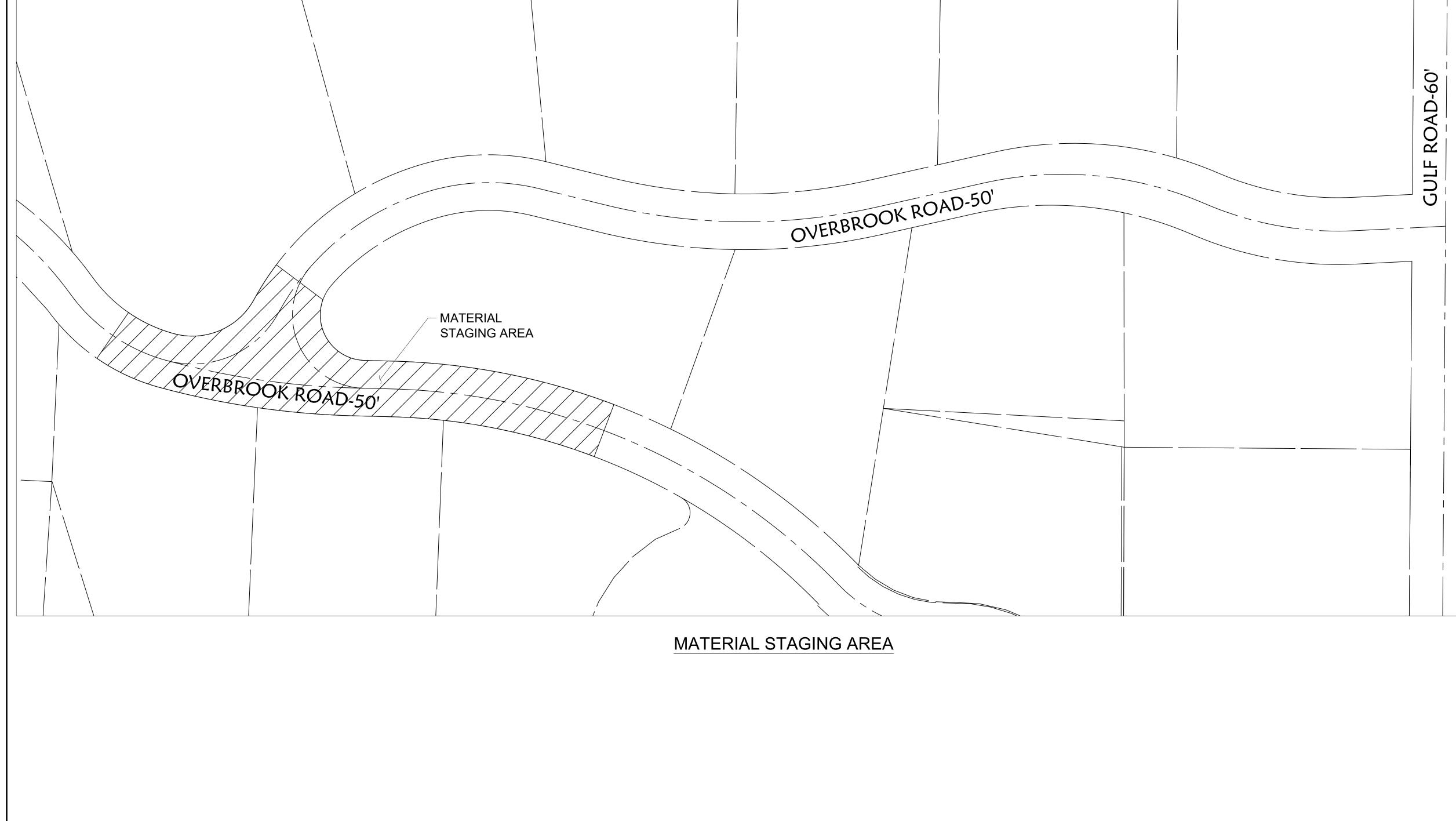
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PROJECT NUMBER

60332065

SHEET TITLE

HORIZONTAL AND VERTICAL SURVEY CONTROL



PROJI

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WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

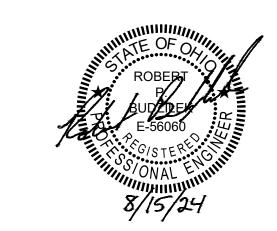
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SHEET TIT

MATERIAL STAGING AREA

SHEET NUMBER

.____

50 0 50 SCALE: 1" = 50'

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NOTES:

- 1. COORDINATES ARE GIVEN FOR THE CENTER OF THE STRUCTURE.
- COMPACTED GRANULAR LIMESTONE BACKFILL PER ODOT CMS ITEM 304 AND TRENCH UNDER PAVEMENT DETAIL ON SHEET UD1.
- 3. NOTE THAT THE PROFILE SHOWS ONLY THOSE UNDERGROUND UTILITIES IMMEDIATE TO THE PROPOSED SEWER. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES AND SERVICES PRIOR TO CONSTRUCTION WHETHER SHOWN IN PROFILE OR NOT. UTILITIES OR SERVICES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND. COST TO BE INCLUDED IN THE LINEAR FOOT PRICE FOR SEWER INSTALLATION.

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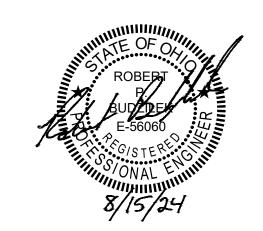
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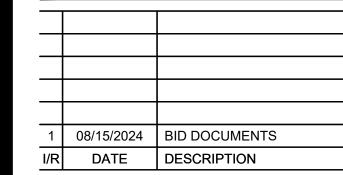
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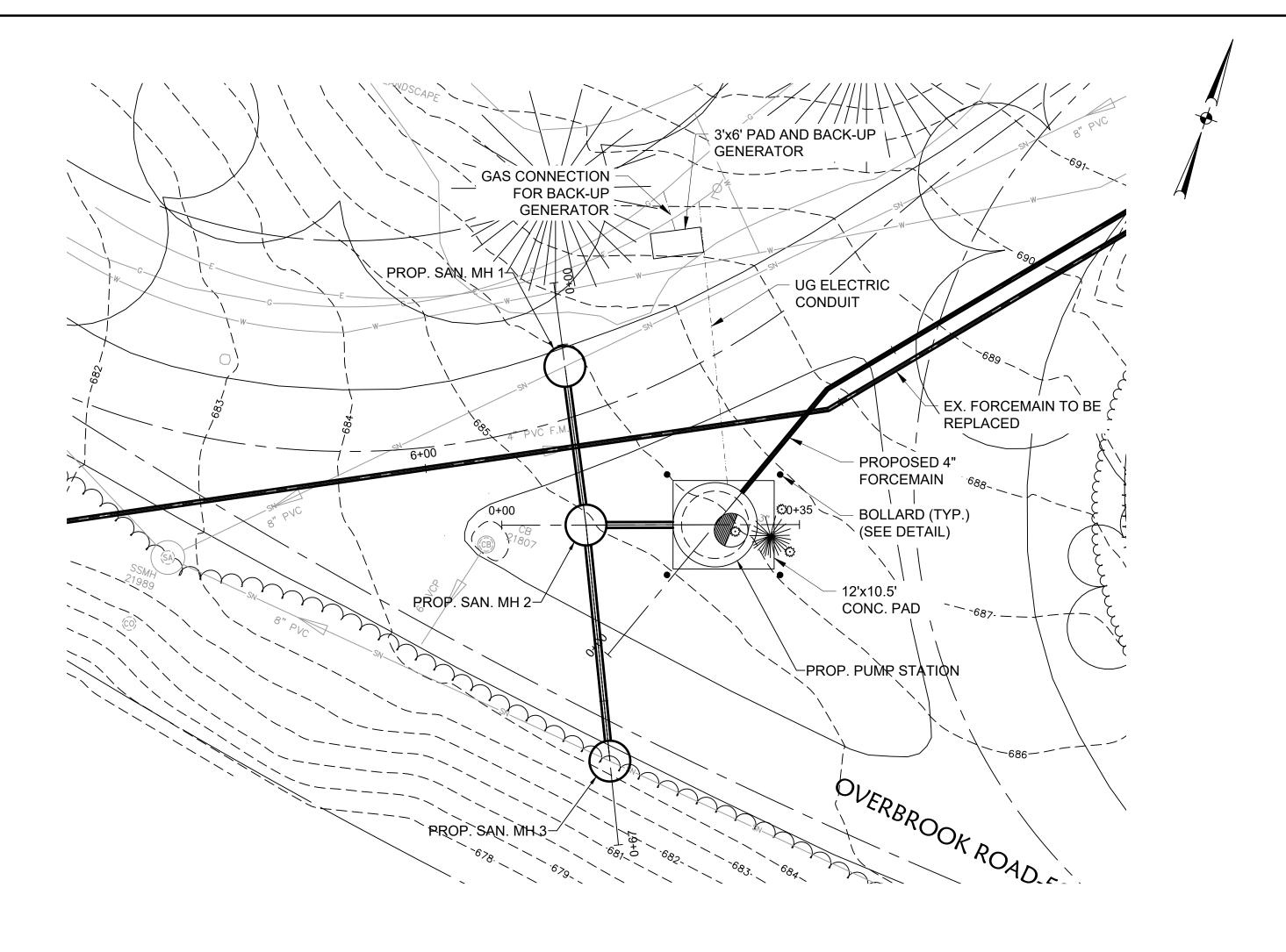
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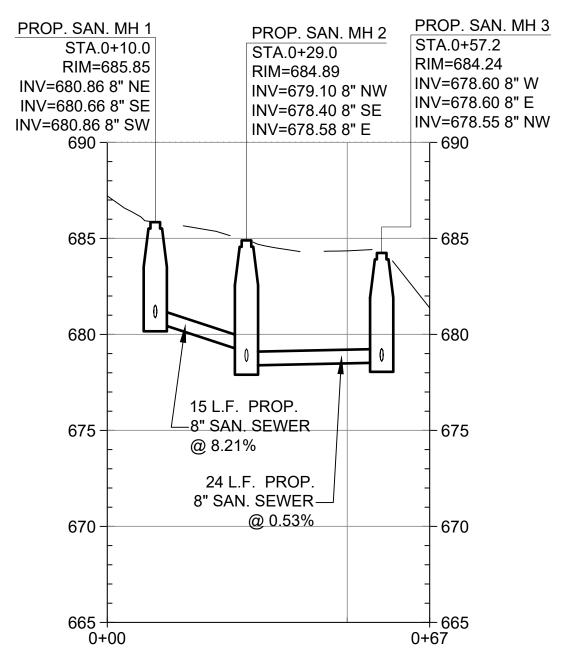
PROP. FORCEMAIN CONNECTIONS PLAN AND PROFILES

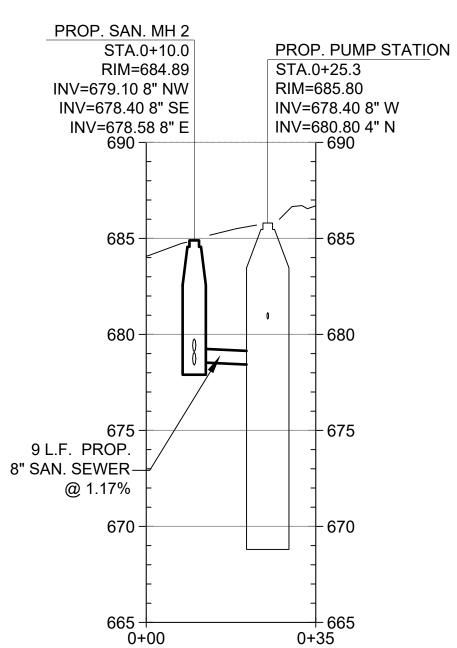
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HORIZ SCALE 1"=10'

VERT SCALE 1"=5'







EXISTING SAN MIH 1 SHE Ш PROPOSED 4" FORCEMAIN-Ш S CAP AND ABANDON LATERAL TO SANITARY SEWER PROP. SAN. MH 14 —EX. FORCEMAIN TO BE REPLACED S ←PROP. PUMP STATION ? EXISTING SAN MH 1 STA 2+91.8 RIM=702.58 INV=696.37 4" W INV=696.57 10" E - 705 EXISTING GRADE _EX. SAN. LAT. REPLACE 209 L.F. EX. 8" SEWER 700 -- 700 WITH 10" I.D. PVC PIPE @ 0.49% EX. 6" WATER-PROP. PUMP STATION 270 L.F. 4" I.D. FUSED HDPE FORCE MAIN STA.0+20.0 RIM=685.80 EX. 6" WATER-INV=678.40 8" W - 690 INV=680.80 4" N EX. 4" FORCEMAIN (REPLACED) - 685 - 680 - 675 - 670 +665 4+00 665 | 0+00 1+00 2+00 3+00

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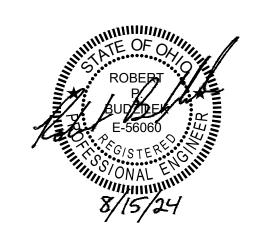
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SHEET TITLE

PROPOSED FORCEMAIN
PLAN AND PROFILE
STA 0+00 TO STA 4+00

SHEET NUMBER

C4

HORIZ SCALE 1"=20'

VERT SCALE 1"=5'

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EX. WATER

675 | 4+00

REPLACE 209 L.F. EX. 8" SEWER

WITH 10" I.D. PVC PIPE @ 0.49%

NOTES:

- 710

- 700

- 690

8+00

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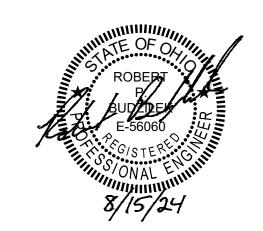
CONSULTANT

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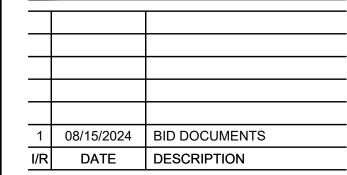
CONSULTANTS

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REGISTRATION



ISSUE/REVISION



PROJECT NUMBER

60332065

SHEET TITLE

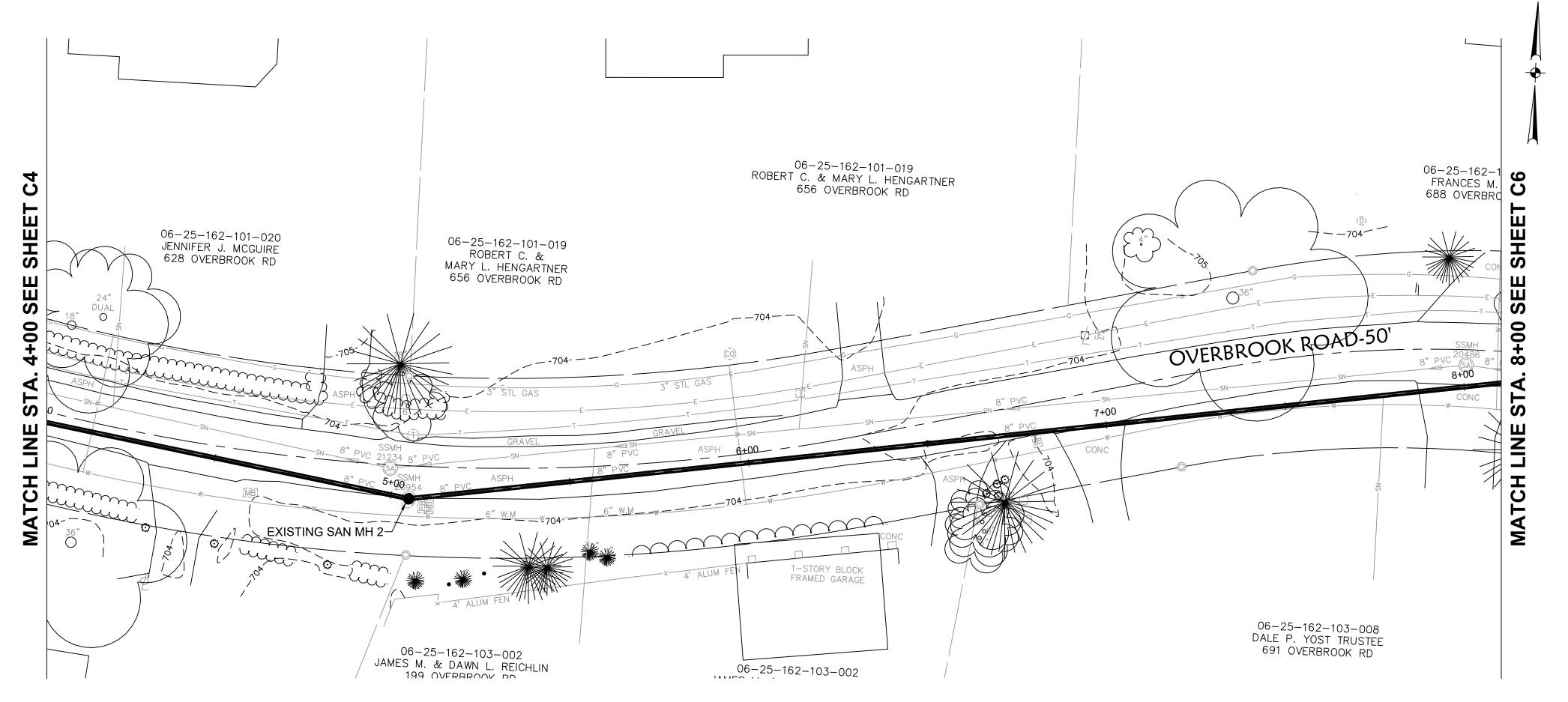
HORIZ SCALE 1"=20'

VERT SCALE 1"=5'

PROPOSED FORCEMAIN PLAN AND PROFILE STA 4+00 TO STA 8+00

SHEET NUMBER

C5



EXISTING GRADE

REPLACE 327 L.F. EX. 8" SEWER

WITH 10" I.D. PVC PIPE @ 0.40%

7+00

_EX. WATER

6+00

EXISTING SAN MH 2

STA.5+05.0

RIM=703.61

5+00

INV=695.52 10" W

INV=695.51 10" E

EX. SAN. LAT.

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NOTES:

- 1. COORDINATES ARE GIVEN FOR THE CENTER OF THE STRUCTURE.
- 2. COMPACTED GRANULAR LIMESTONE BACKFILL PER ODOT CMS ITEM 304 AND TRENCH UNDER PAVEMENT DETAIL ON SHEET UD1.
- NOTE THAT THE PROFILE SHOWS ONLY THOSE UNDERGROUND UTILITIES IMMEDIATE TO THE PROPOSED SEWER. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES AND SERVICES PRIOR TO CONSTRUCTION WHETHER SHOWN IN PROFILE OR NOT. UTILITIES OR SERVICES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND. COST TO BE INCLUDED IN THE LINEAR FOOT PRICE FOR SEWER INSTALLATION.

AECOM

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

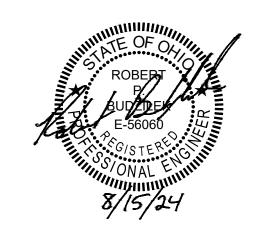
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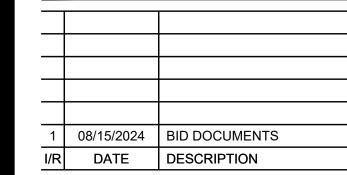
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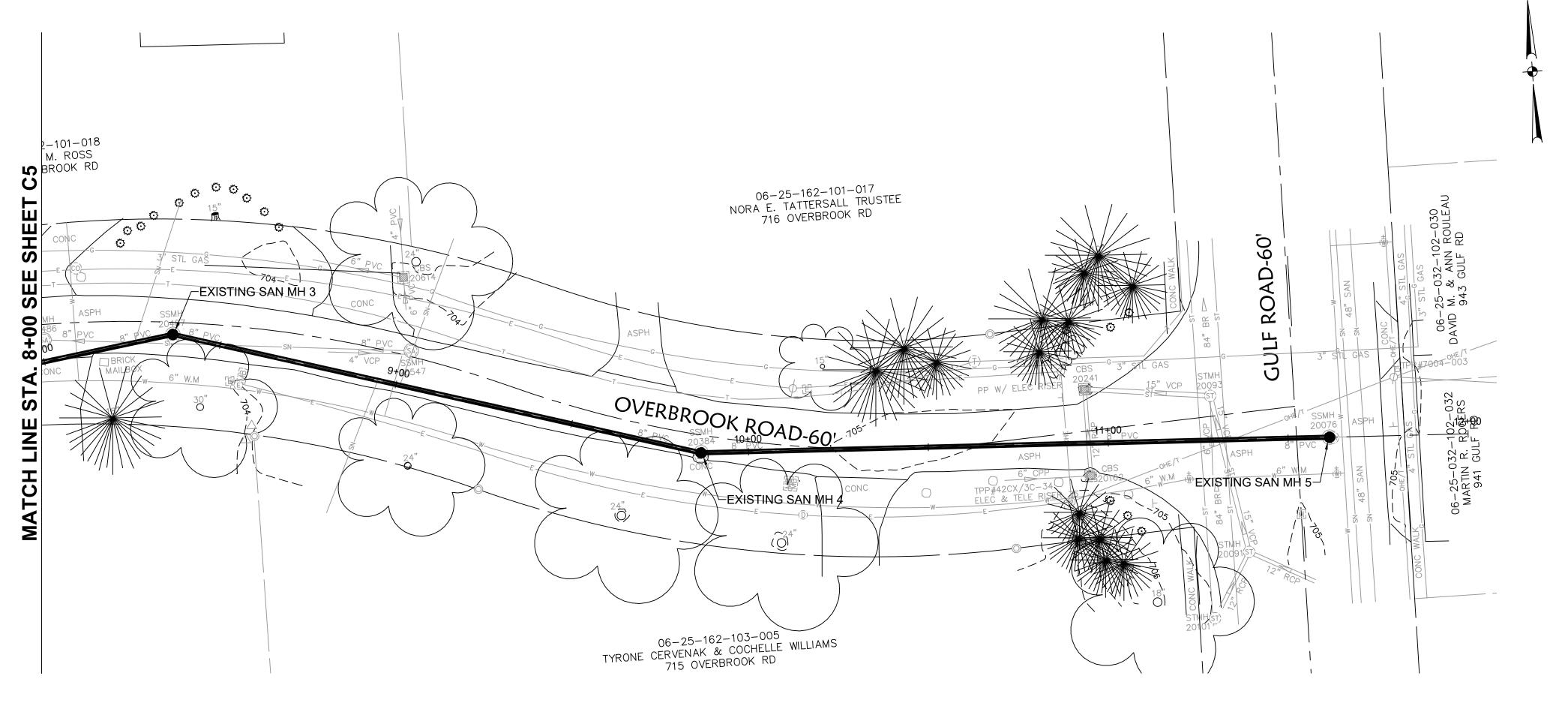
PROPOSED FORCEMAIN PLAN AND PROFILE STA 8+00 TO STA 11+75

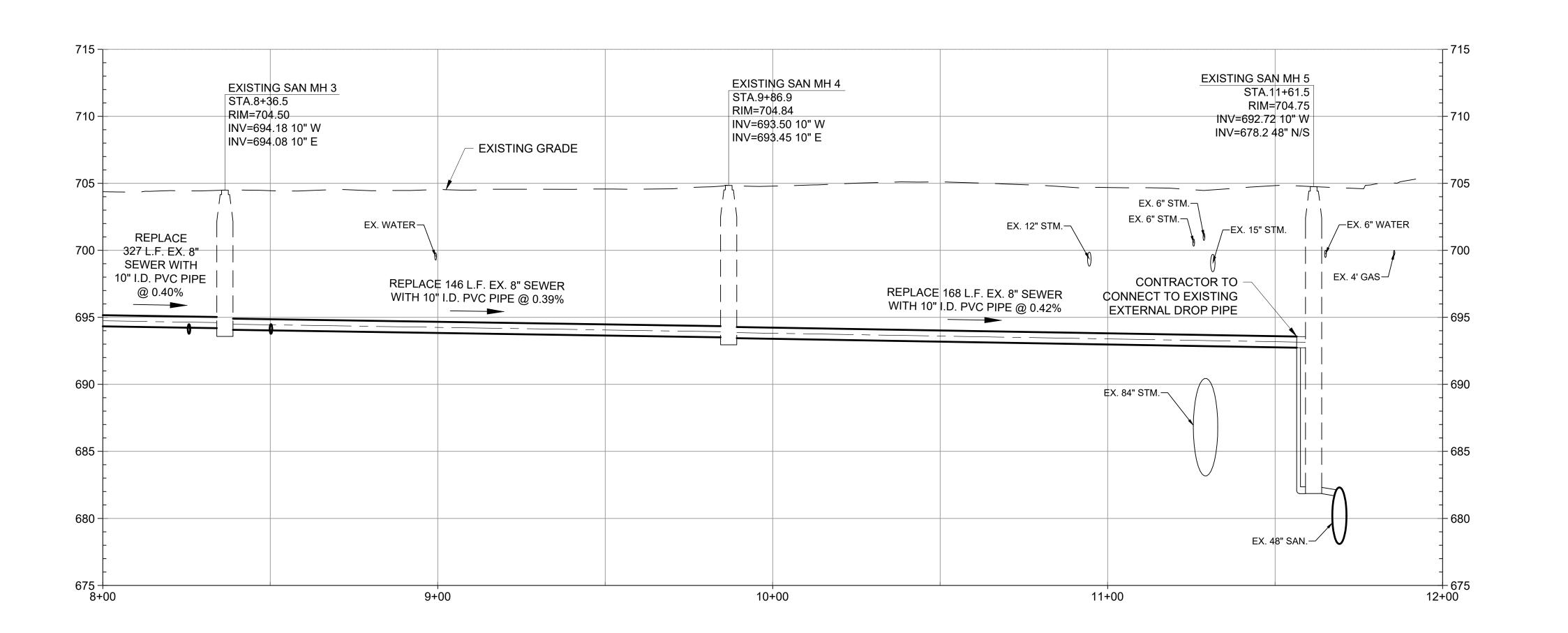
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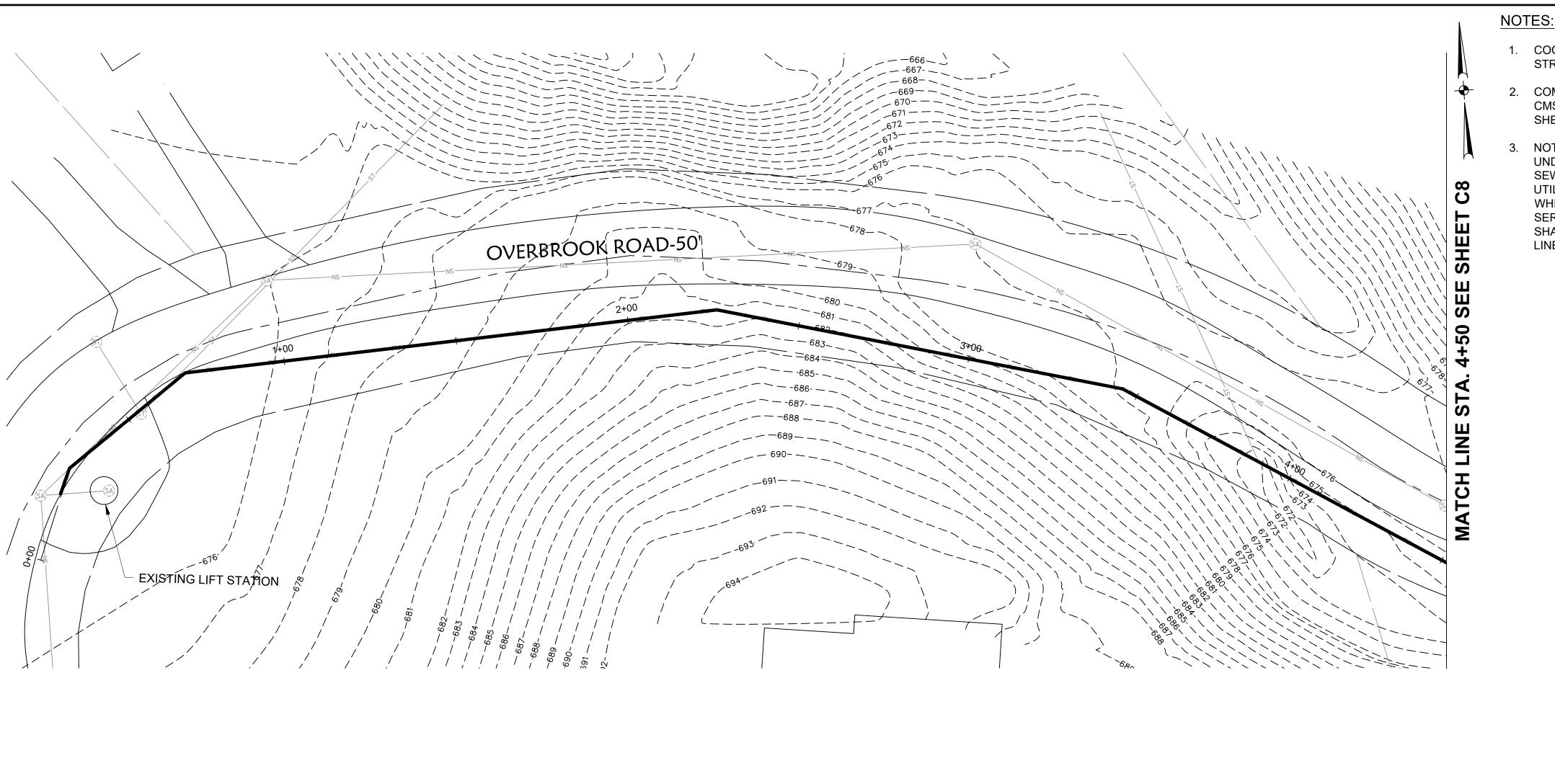
C6

HORIZ SCALE 1"=20'

VERT SCALE 1"=5'







- COORDINATES ARE GIVEN FOR THE CENTER OF THE STRUCTURE.
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 - NOTE THAT THE PROFILE SHOWS ONLY THOSE
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 SHALL BE REPLACED IN KIND. COST TO BE INCLUDED IN THE
 LINEAR FOOT PRICE FOR SEWER INSTALLATION.

PROJE

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

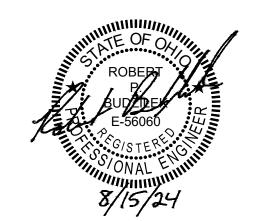
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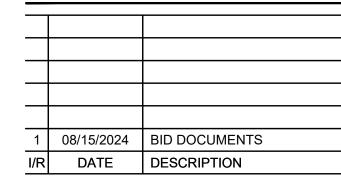
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PROJECT NUMBER

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HORIZ SCALE 1"=20'

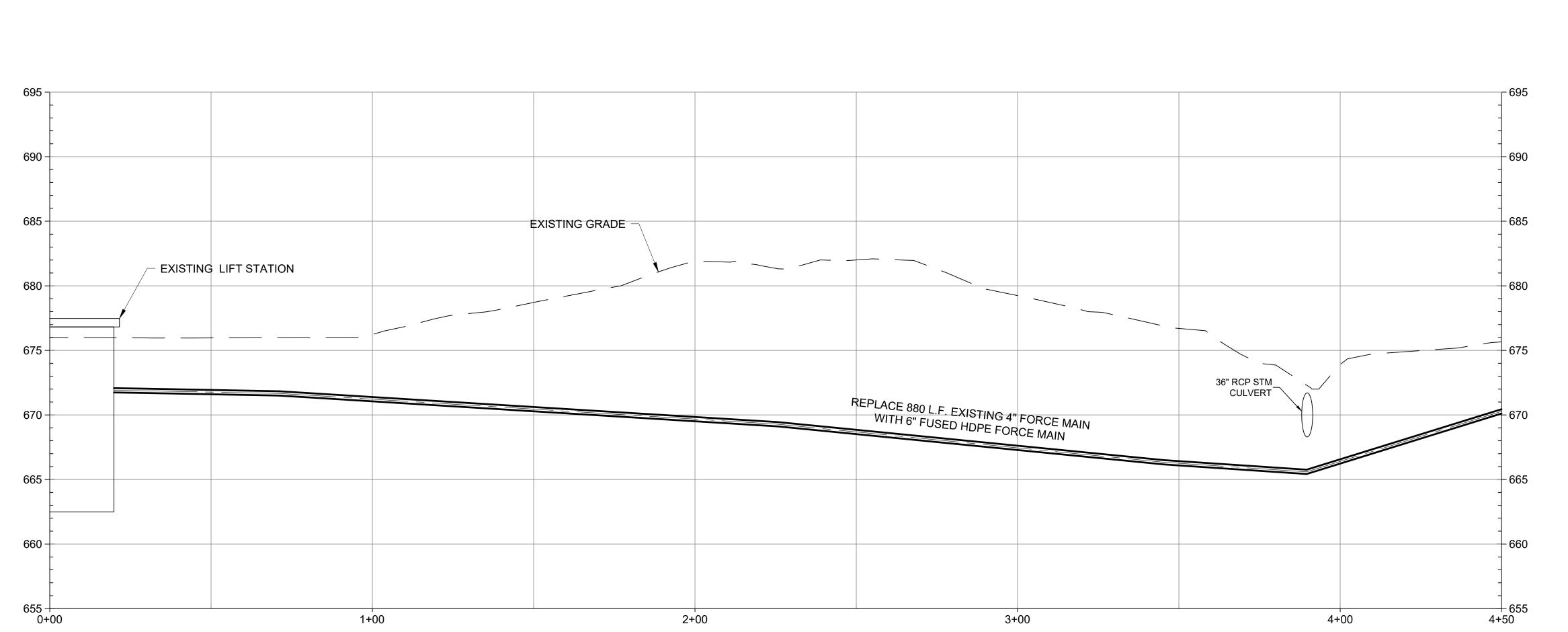
VERT SCALE 1"=5'

SHEET TITLE

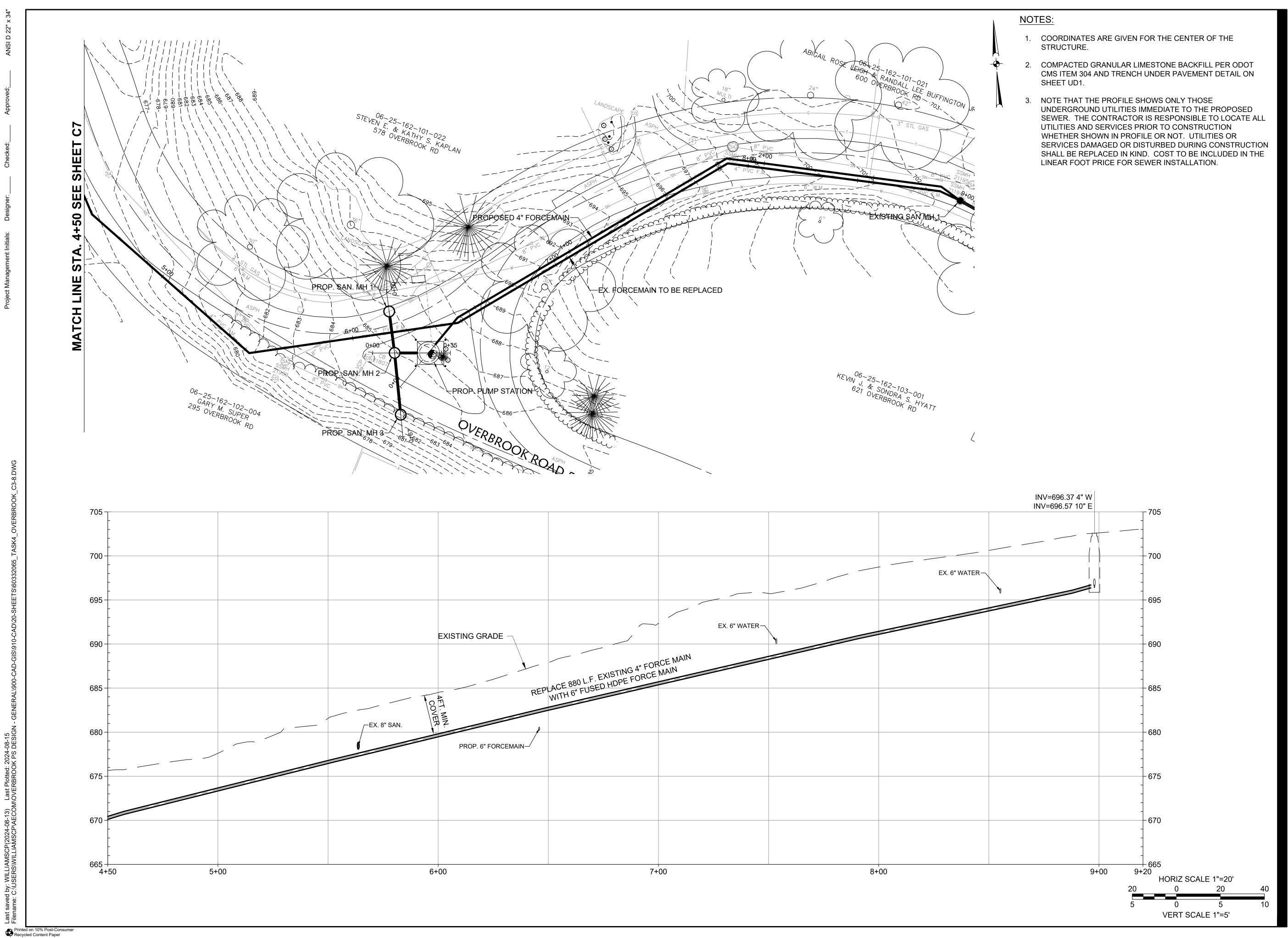
EXISTING FORCEMAIN PLAN AND PROFILE STA 0+00 TO STA 4+50

SHEET NUMBER

C7



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OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

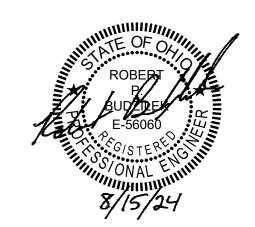
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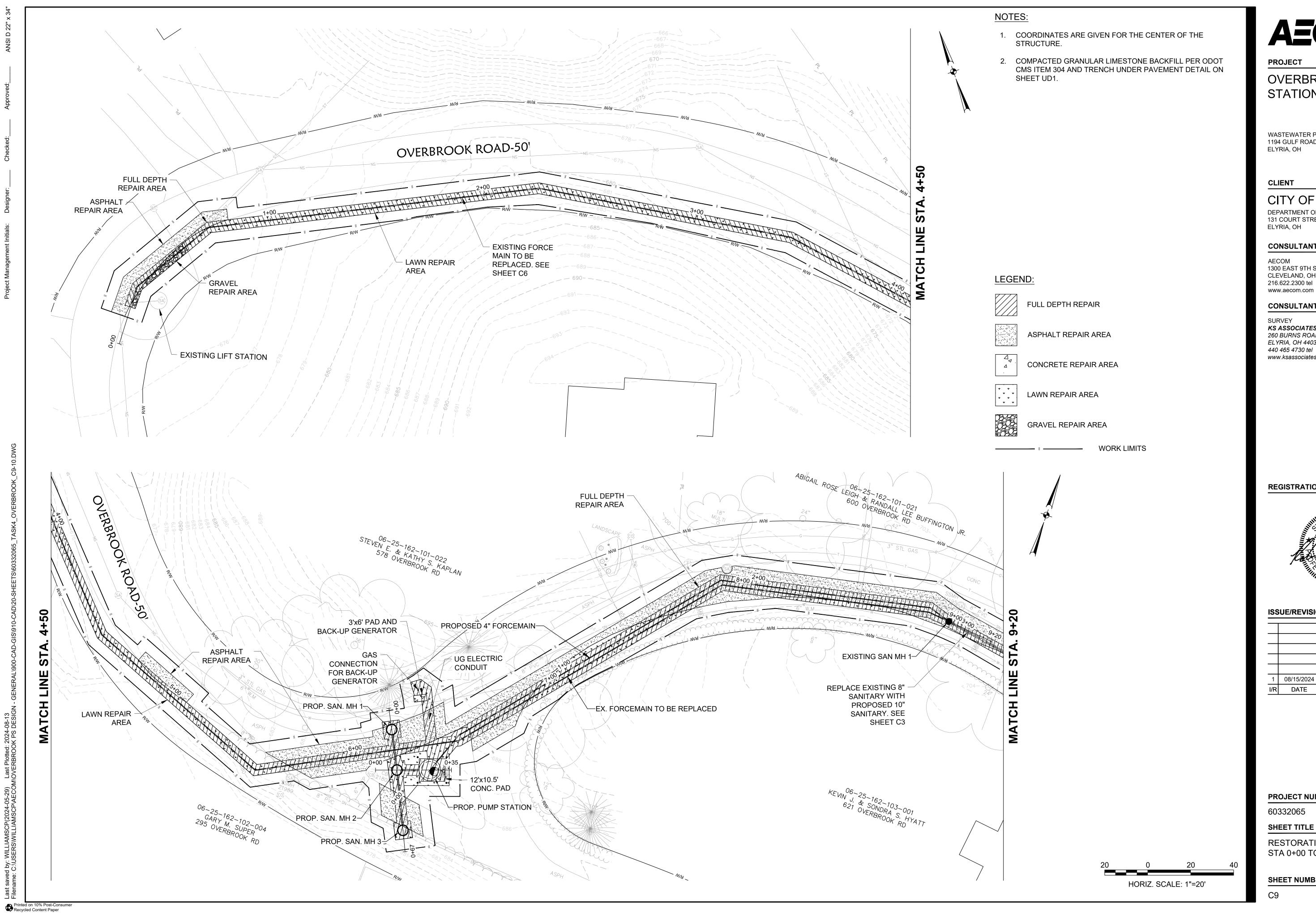
60332065

SHEET TITLE

EXISTING FORCEMAIN PLAN AND PROFILE STA 4+50 TO STA 9+20

SHEET NUMBER

C8



OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

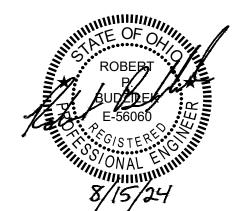
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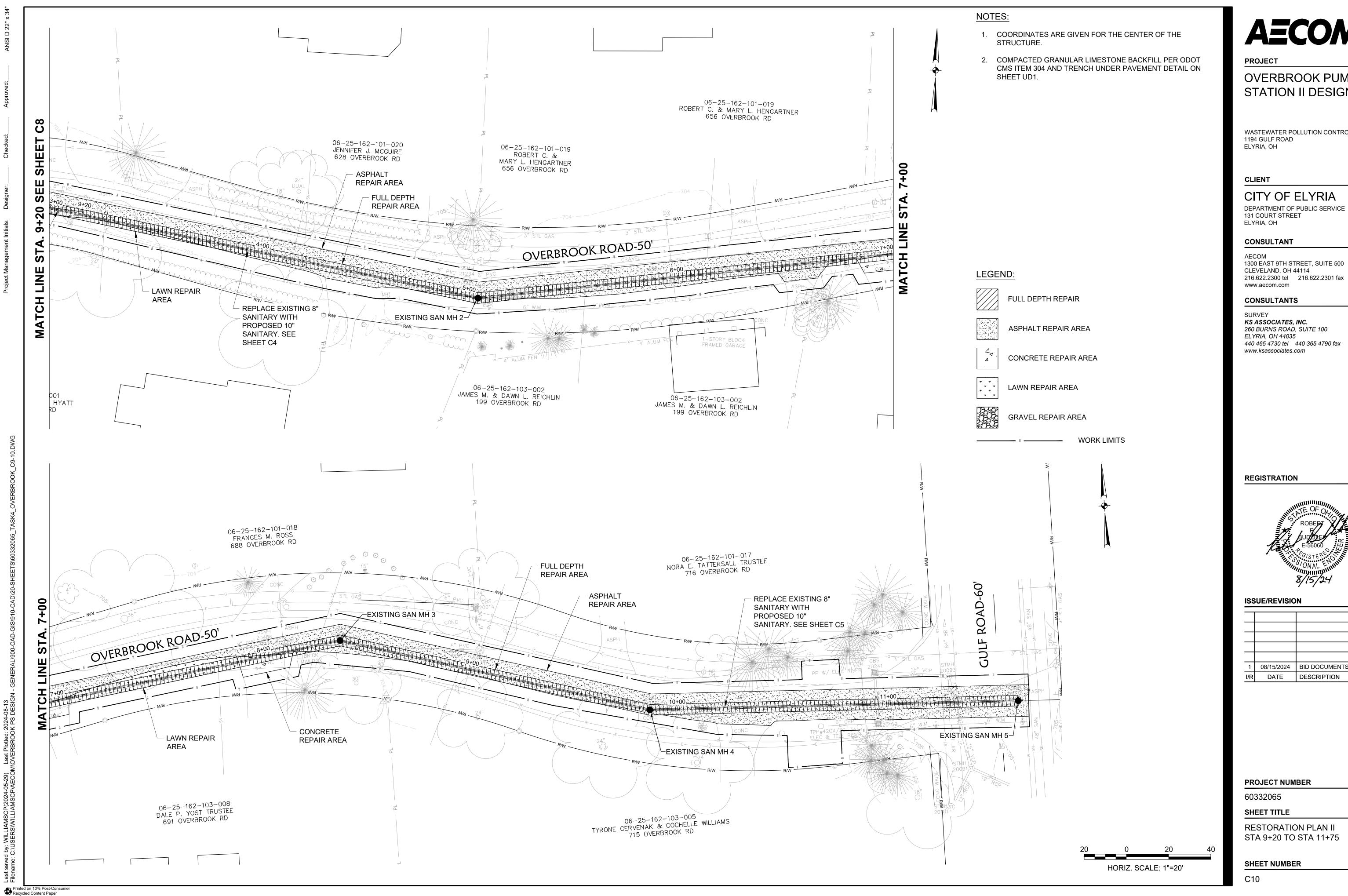
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

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SHEET TITLE

RESTORATION PLAN I STA 0+00 TO STA 9+20

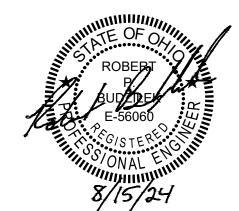


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WASTEWATER POLLUTION CONTROL PLANT

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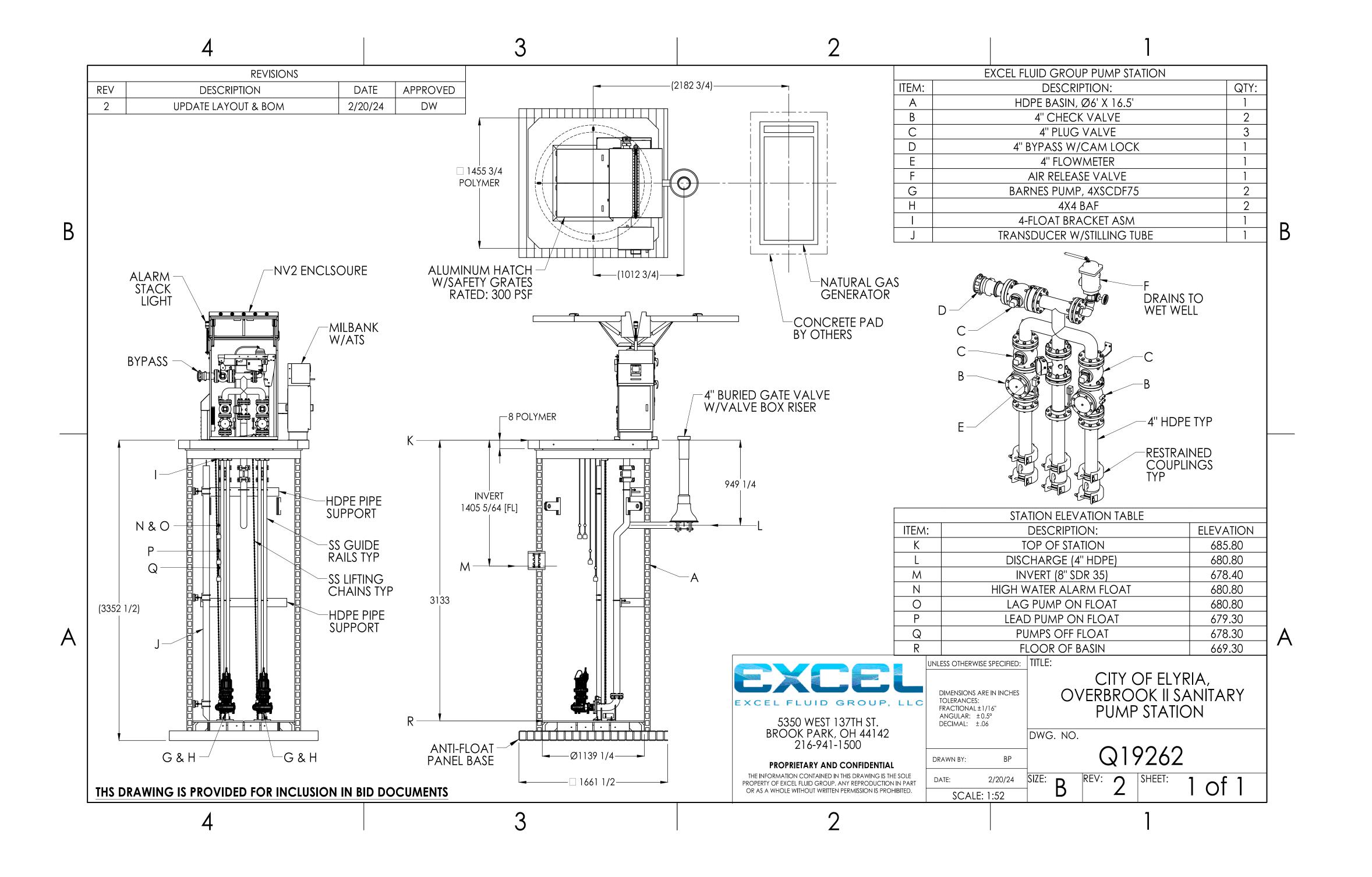
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STA 9+20 TO STA 11+75

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OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

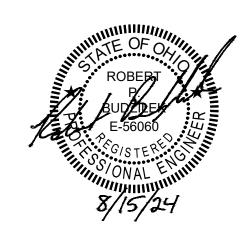
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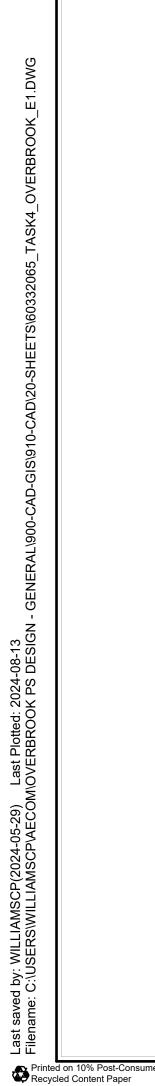
60332065

SHEET TITLE

PROPOSED PUMP STATION DETAILS

SHEET NUMBER

PS1



SERVICE POLE, 30' CLASS 5 PENTACHLOROPHENOL TREATED SOUTHERN YELLOW PINE -___ DEADEND CLEVIS GALVANIZED STEEL EYE BOLT -- SERVICE DROP BY UTILITY - WEATHERHEAD GUY POLE AS REQUIRED. -DRIP LOOP, 12" MINIMUM PROVIDE GUY WIRE, HELICAL SCREW ANCHOR, GUY ADAPTER, AND HALF ROUND GUY MARKER -CONDUIT STRAPS LINE SIDE DISCONNECT IF REQUIRED BY UTILITY, NEMA 4X NON-FUSIBLE SWITCH. SEE ONE LINE DIAGRAM FOR SIZE #2 BARE COPPER GROUNDING ELECTRODE CONDUCTOR TO METER SOCKET AND LINE SIDE DISCONNECT — — FINISHED GRADE — TO SERVICE DISCONNECT -TO GROUND ROD AT SERVICE DISCONNECT -EXOTHERMICALLY WELDED CONNECTION

MCC ENCLOSURE AND PUMP CONTROL

PANEL, PROVIDED WITH PUMP STATION —

SERVICE DISCONNECT/MANUAL

TRANSFER SWITCH AND POWER

SERVICE ENTRANCE CONDUIT AND

METER SOCKET -

CENTER —

COPPER —

WELDED

GROUND

CONNECTION —

#6 BARE

EXOTHERMICALLY

GROUNDING ELECTRODE

CONDUCTOR TO SERVICE POLE

ELECTRICAL SERVICE POLE DETAIL

ONE LINE POWER DIAGRAM

NOT TO SCALE

120/240V, 1ø, 3W SÉRVICE FROM - COMBINATION SERVICE DISCONNECT AND INTERLOCKED POWER COMPANY CIRCUIT BREAKERS MANUAL TRANSFER SWITCH, NEMA 3R WITH SERVICE EQUIPMENT LABEL 2(125 2(125 METER SOCKET SPLICE PUMP CORD(S) TO FIXED WIRING IN JUNCTION BOX

GROUND ROD

○ KEYED NOTES:

- EQUIPMENT MOUNTING STAND. PROVIDE A

SEE DETAIL ON THIS SHEET.

WASHER. (TYPICAL)

-PUMP AND

FLOAT CORDS

CONDUIT SEALING

FINISHED GRADE

SETPOINT ELEVATIONS. ———

PUMP STATION ELECTRICAL DETAIL

4' MIN. FROM EDGE

OF PUMP STATION

CONDUIT SLEEVES THROUGH TOP SLAB. SEE DETAIL THIS SHEET —

FLOAT SWITCH(S), SEE PUMP STATION DETAIL

NOT TO SCALE

FOR QUANTITY OF FLOAT SWITCHES AND

FITTING —

BOX FOR FLOAT CORDS.

MINIMUM OF TWO VERTICAL MOUNTING POSTS.

-1-5/8" STAINLESS STEEL U-CHANNEL HORIZONTAL

U-CHANNEL WITH 3/8" BOLT, CHANNEL NUT, AND

-CORD CONNECTORS WITH STRAIN RELEIF.

CORD(S). SEE DETAIL THIS SHEET.

┼─ SUBMERSIBLE

PUMP(S)

SUPPORT ATTACHED TO MOUNTING STAND WITH 3/8"

BOLT, NUT, AND WASHERS. ATTACH ENCLOSURE(S) TO

- 24x24x8 NEMA 4X STAINLESS STEEL JUNCTION BOX FOR

PUMP POWER CABLES AND 12x12x4 NEMA 4X JUNCTION

-PROVIDE SUPPORT BRACKET FOR FLOATS AND PUMP

- LOCATE MOUNTING STAND FOR JUNCTION

BOX AS REQUIRED TO MAINTAIN A MINIMUM

5' RADIUS FROM VENT TO JUNCTION BOX

1 FURNISHED WITH PUMPS, INSTALLED UNDER DIVISION 26.

PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

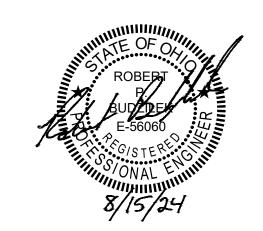
CONSULTANT

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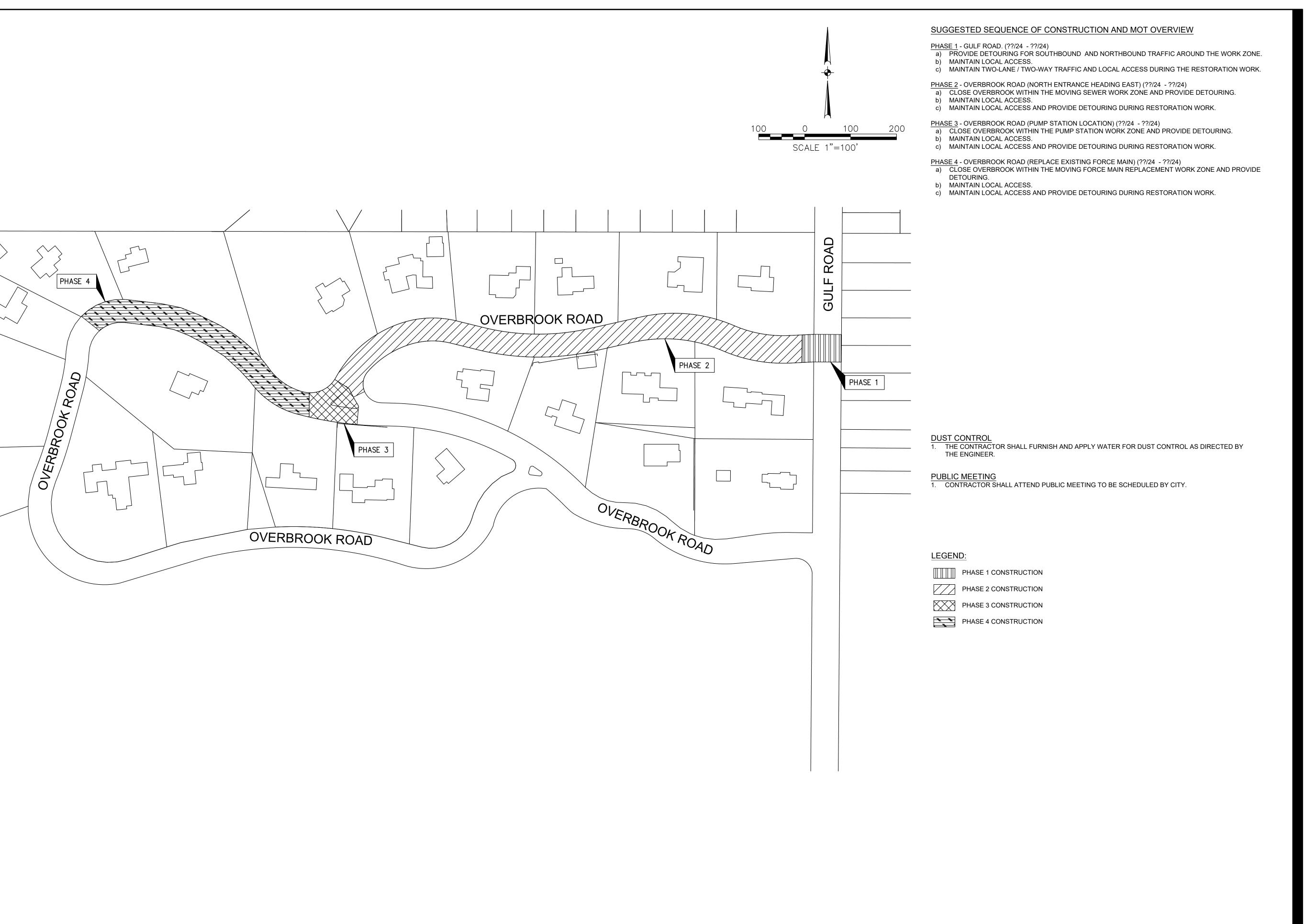
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SHEET TITLE

ELECTRICAL DETAILS



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CLIENT

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DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

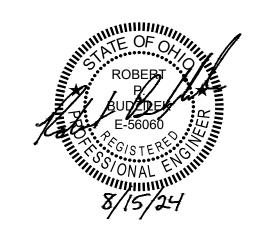
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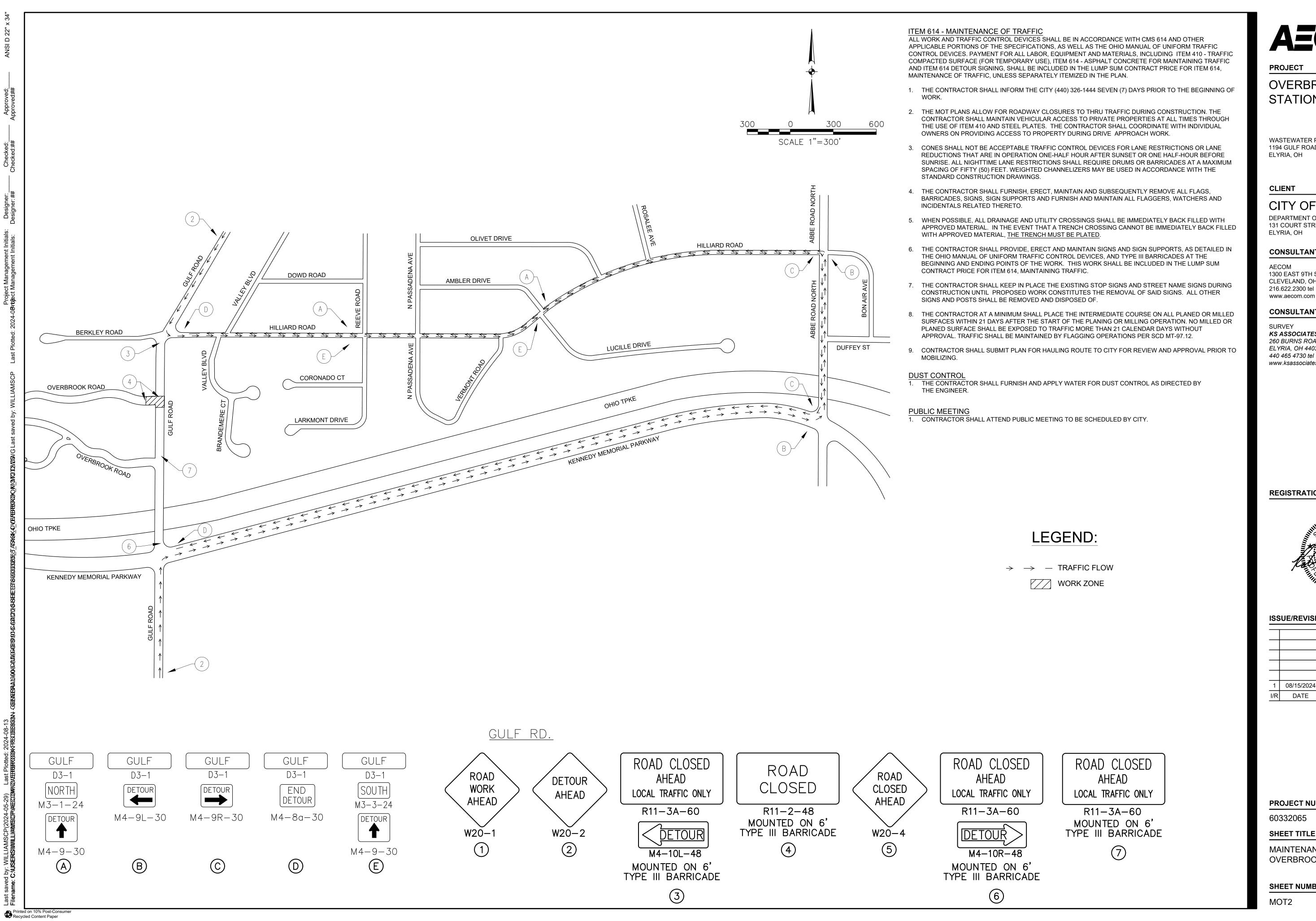
60332065

SHEET TITLE

MAINTENANCE OF TRAFFIC PLAN OVERBROOK RD.

SHEET NUMBER

MOT



PROJECT

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET

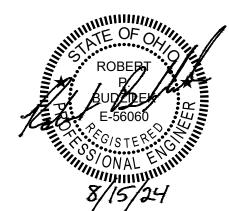
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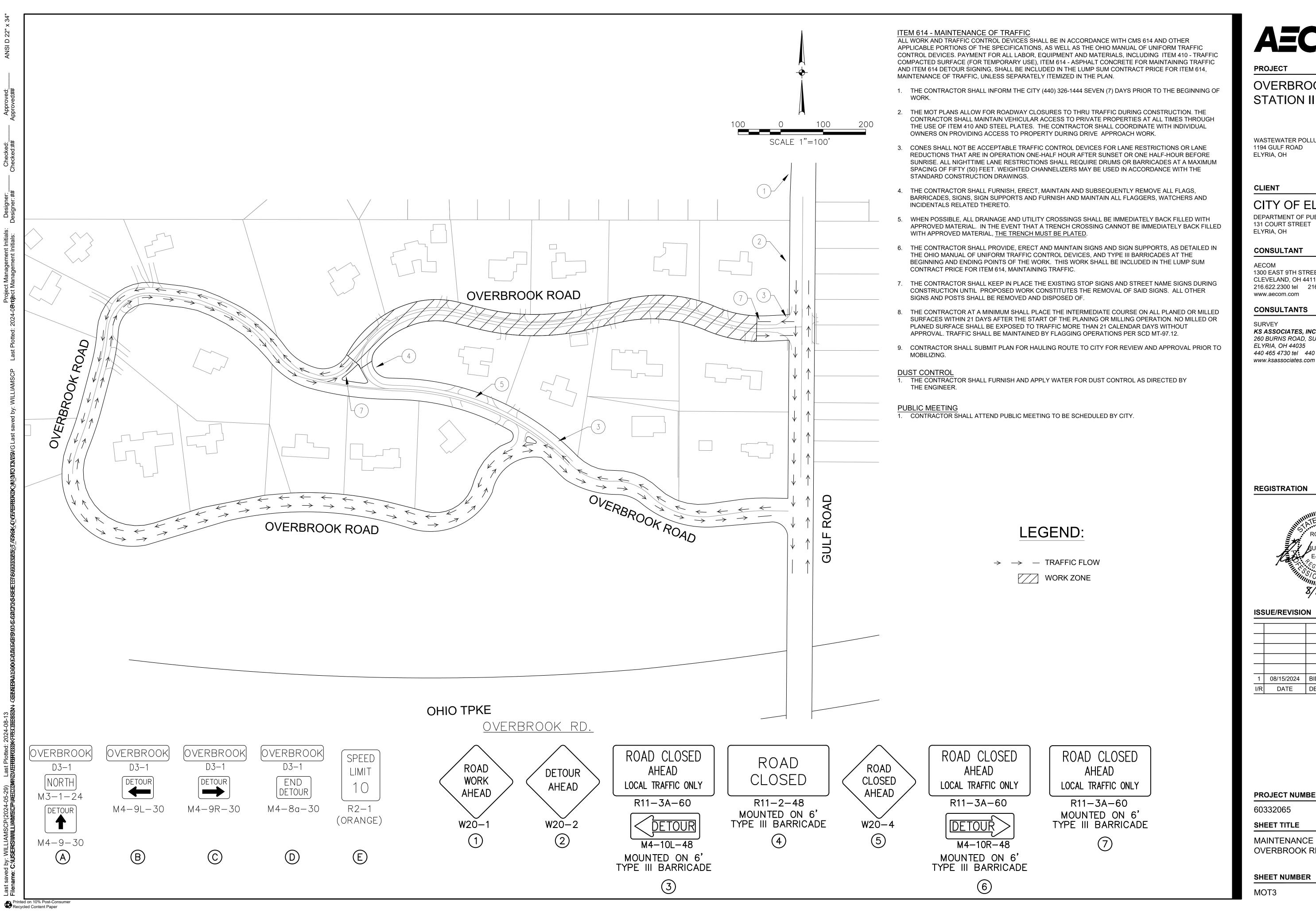
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SHEET TITLE

MAINTENANCE OF TRAFFIC PLAN OVERBROOK RD.



OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

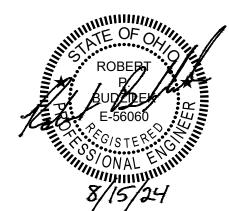
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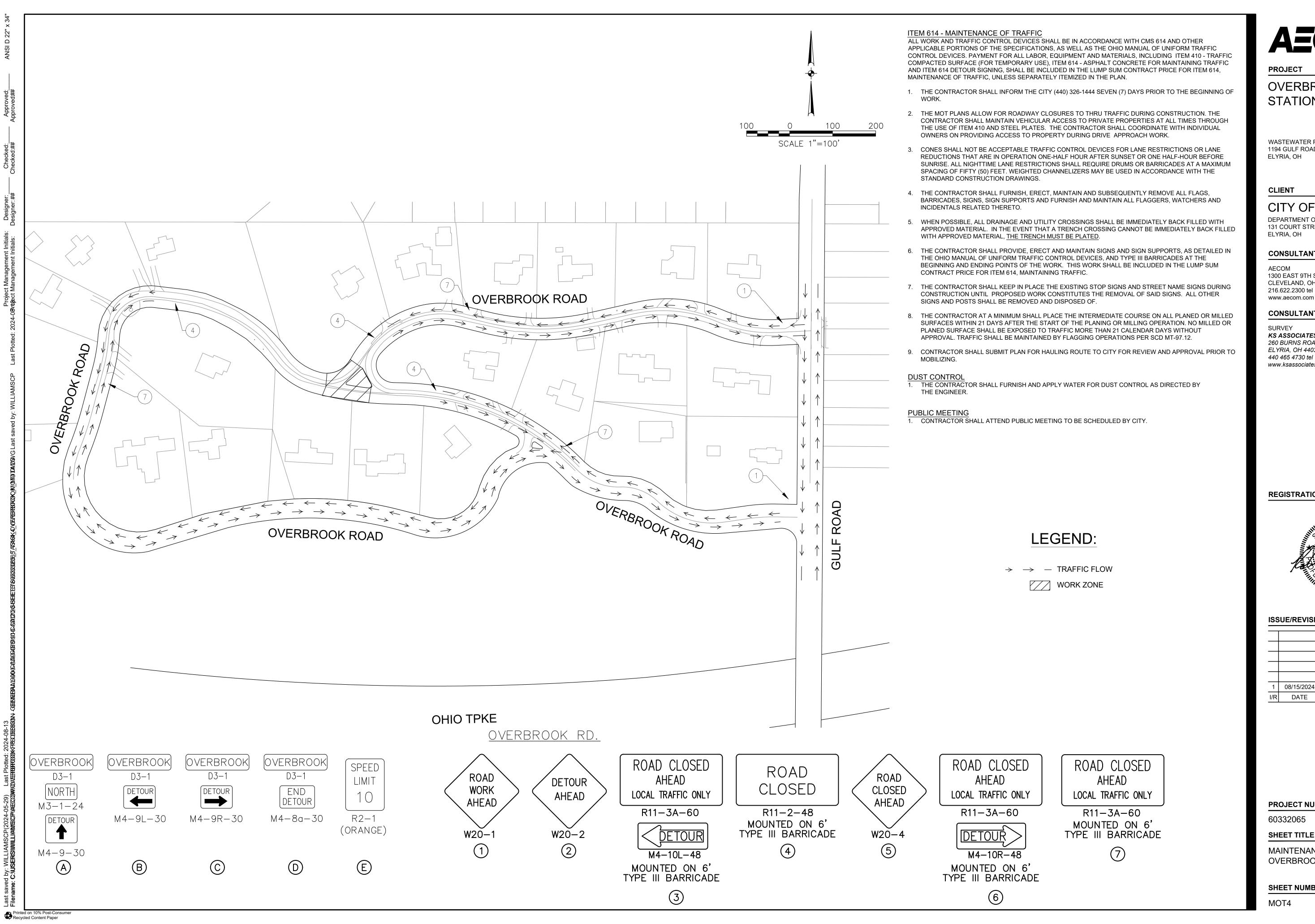
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WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD

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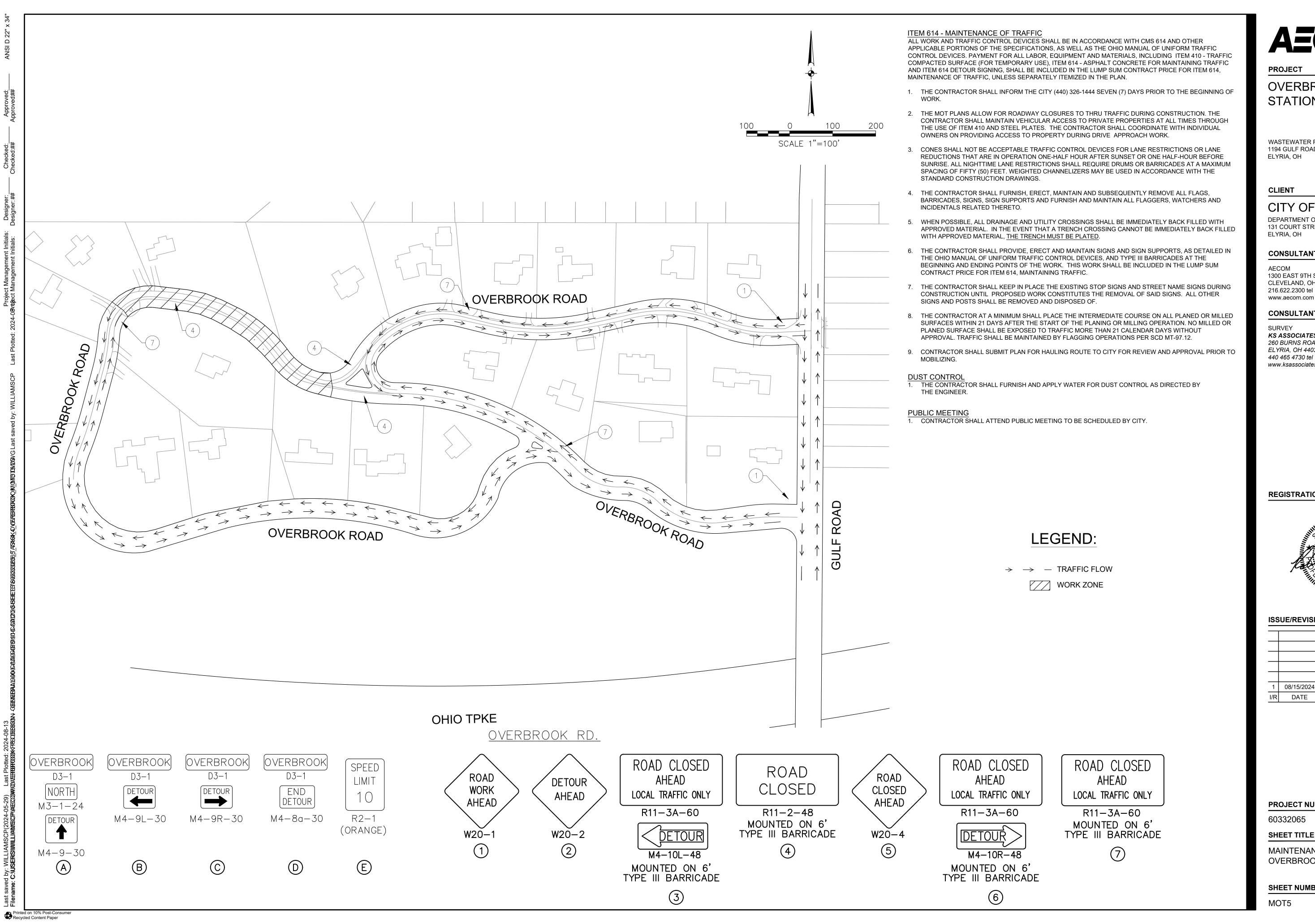
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PROJECT

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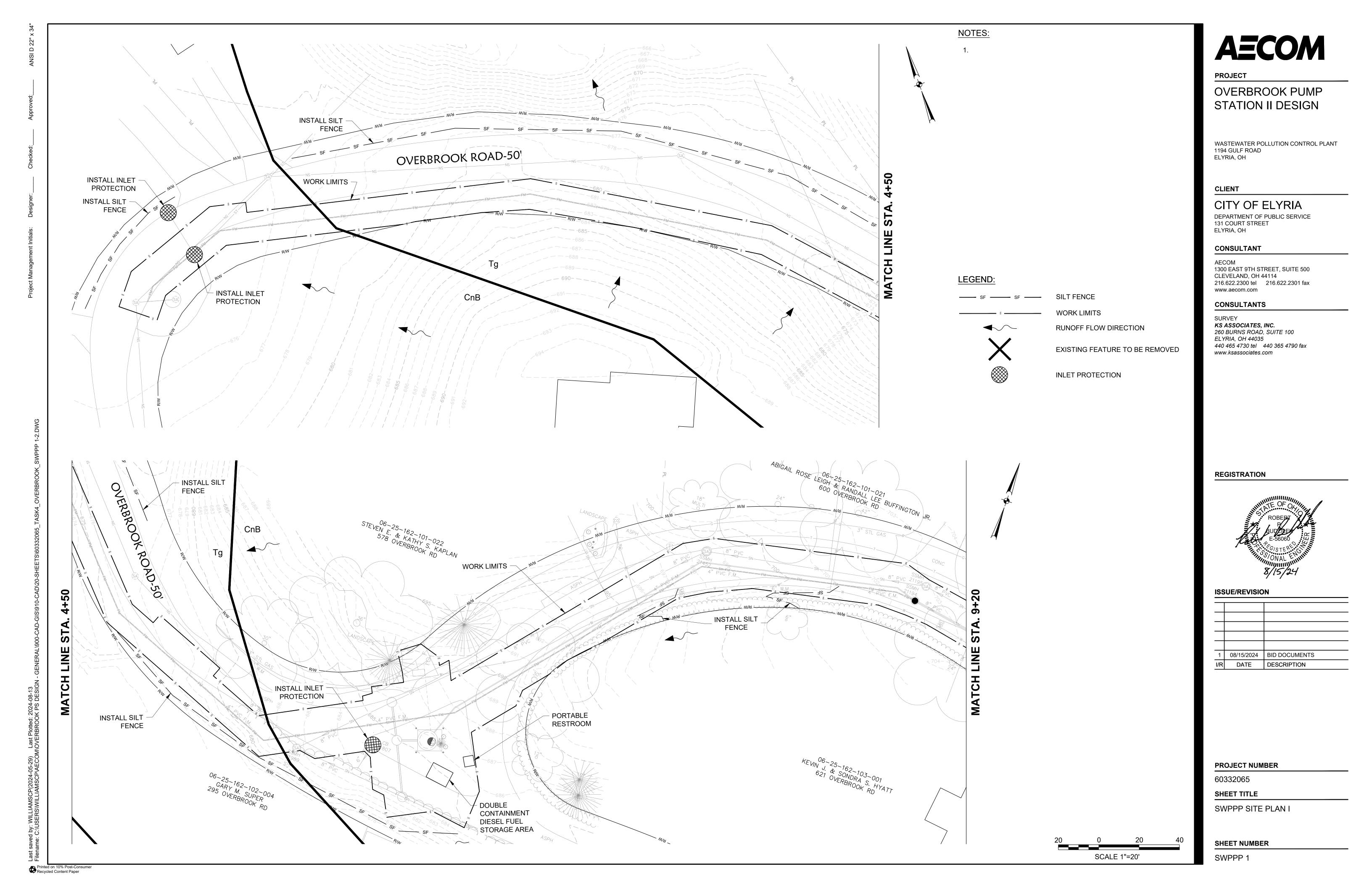
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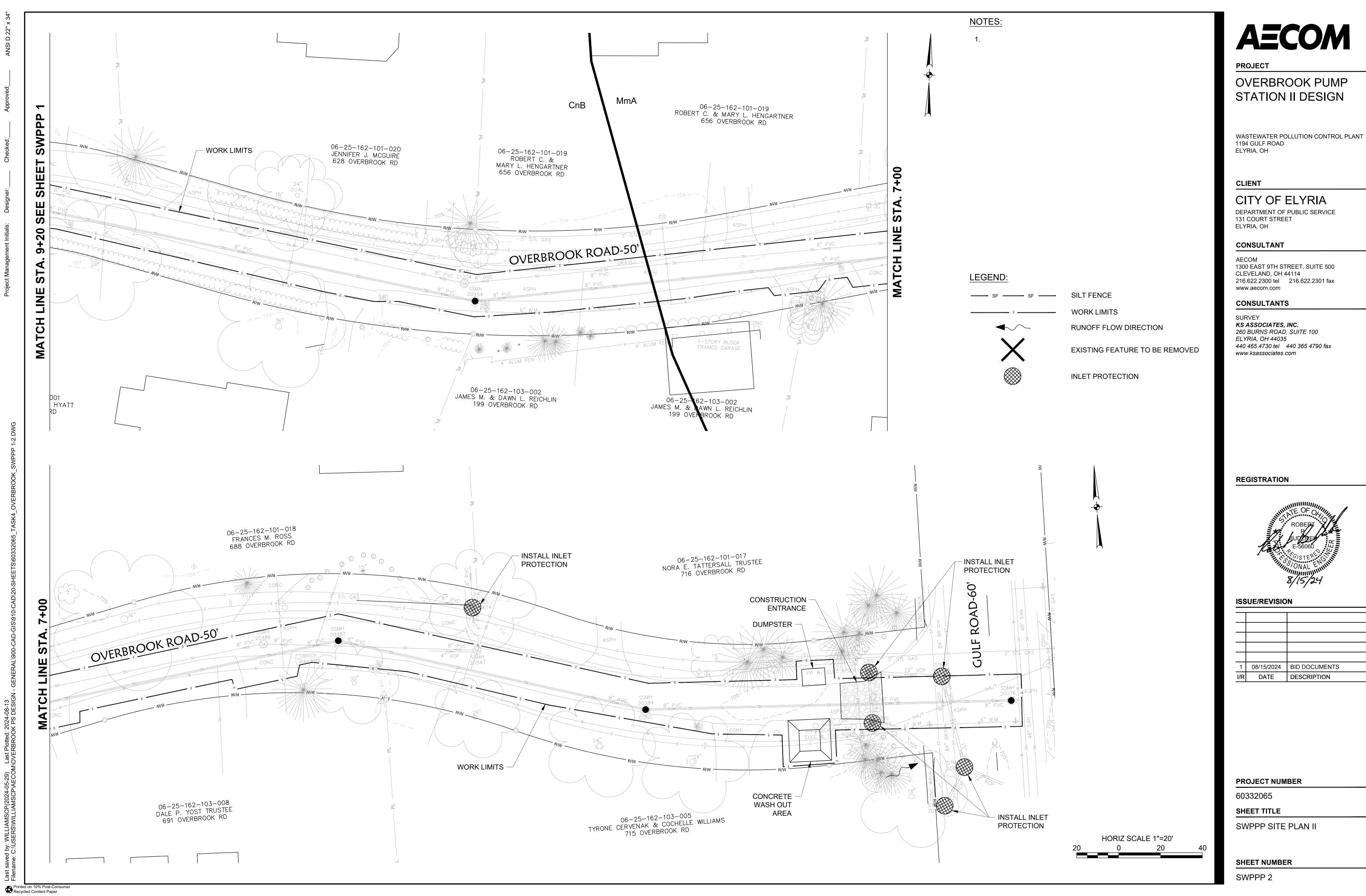
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MAINTENANCE OF TRAFFIC PLAN OVERBROOK RD.





1	08/15/2024	BID DOCUMENTS
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CONTRACTOR'S ACKNOWLEDGMENT STATEMENT:

THE CONTRACTOR SHALL REVIEW THE FOLLOWING STATEMENTS AND SUBMIT WITH SIGNATURE OF THE APPROPRIATE PARTY TO THE CITY OF ELYRIA PRIOR TO ANY EARTH DISTURBING ACTIVITIES CONTRACTOR SHALL ALSO MAKE APPLICATION FOR A GRADING PERMIT AND A STORM WATER PERMIT THROUGH THE CITY ENGINEER'S OFFICE PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

PROVIDE BELOW NAME AND CONTACT INFORMATION FOR THE PERSON RESPONSIBLE FOR AUTHORIZING AND AMENDING THE SWPPP.

RINT NAME	COMPANY NAME
IGNATURE	DATE

BUSINESS NUMBER CELL NUMBER

PROVIDE BELOW NAME AND CONTACT INFORMATION FOR THE PERSON PERFORMING THE INSPECTIONS OF THE TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL MEASURES AND ENSURING THEY ARE DONE IN ACCORDANCE WITH THE NPDES CGP.

PRINT NAME	COMPANY NAME
SIGNATURE	DATE
BUSINESS NUMBER	CELL NUMBER

THE CITY OF ELYRIA MAY PERFORM ON-SITE INSPECTIONS OF THE PROJECT TO ENSURE COMPLIANCE WITH THE PERMIT. IF ANY CHANGES, REPAIRS, OR MAINTENANCE ARE NOTED, CONTRACTOR IS RESPONSIBLE TO MAKE AMENDMENTS BY THE DATE PROVIDED BY THE CITY ENGINEER.

SWPPP GENERAL NOTES

- CONTRACTOR SHALL COMPLETE, SIGN AND DATE THE CO-PERMITTEE FORM (INCLUDED IN THE BID BOOK), SEND TO OEPA AND SUBMIT A COPY OF IT TO THE CITY ENGINEER'S OFFICE PRIOR TO COMMENCEMENT OF WORK. PRIOR TO WORK, THE CONTRACTOR SHALL LOCATE ON THE SWPPP PLANS PROVIDED (SHEETS CSWP PL1 & CSWP PL2) ALL CONSTRUCTION SUPPORT FACILITIES SUCH AS, BUT NOT LIMITED TO, DESIGNATED AREAS FOR STORAGE OR DISPOSAL OF SOLID, SANITARY, AND TOXIC WASTE, DUMPSTER(S), DRUM(S), WASHOUT PIT(S), DESIGNATED FUELING AREA(S), CHEMICAL COMPOUND STORAGE AND MIXING AREA(S), EQUIPMENT AND MATERIAL STORAGE AREA(S) AND EQUIPMENT FUELING AND MAINTENANCE LOCATION(S). ALL LOCATIONS FOR THE ABOVE MENTIONED ITEMS SHALL BE AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORM WATER DRAINAGE AREAS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SEPARATE AND APPROPRIATE DISPOSAL CONTAINERS FOR SOLID, SANITARY AND TOXIC WASTE, WHICH SHALL BE SERVICED BY A LICENSED COMMERCIAL OPERATOR FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHOULD USE PROTECTED STORAGE AREAS FOR INDUSTRIAL OR CONSTRUCTION MATERIALS TO MINIMIZE EXPOSURE OF SUCH MATERIALS TO STORM WATER.
- . ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714.
- 3. ALL CHEMICALS MIXED ON THE SITE SUCH AS, BUT NOT LIMITED TO, FERTILIZER, LIME, OR CONCRETE SHALL BE PERFORMED WITHIN THE DESIGNATED AREAS MARKED ON THE PLANS BY THE CONTRACTOR AS DIRECTED IN NOTE 1.
- 4. IF THE CONTRACTOR WISHES TO HAVE FUEL TANKS AND DRUMS STORED ON SITE, THEN HE MUST PROVIDE A MARKED STORAGE AREA WITH ALL COMPONENTS OF SUCH CONTAINERS SURROUNDED BY A DIKE AND THE DIKE SHALL BE IN COMPLIANCE WITH ALL ELYRIA FIRE DEPARTMENT LOCAL, STATE AND FEDERAL REGULATIONS. IF ONE ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS, OR MORE, TOTAL AST OF 1,330 GALLONS, OR BELOW-GROUND STORAGE OF 42,000 GALLONS OF FUEL, THEN A SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN SHALL BE DEVELOPED AND DELIVERED TO THE CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK. IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS OF PETROLEUM WASTE), THE CONTRACTOR SHALL IMMEDIATELY CONTAIN THE SPILL AREA, CONTACT THE CITY ENGINEER, TEST THE CONTENTS AND DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. IN THE CASE OF A LARGE RELEASE (25 GALLONS OR MORE OF PETROLEUM WASTE), THE CONTRACTOR MUST CONTACT THE OHIO EPA AT 1-800-282-9378, THE ELYRIA FIRE DEPARTMENT AT (440) 323-4815, THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC), AND THE ELYRIA WASTEWATER POLLUTION CONTROL PLANT AT (440) 366-2211 WITHIN 30 MINUTES OF THE SPILL. ALL SPILLS SHALL BE RECORDED AND INCLUDE THE PREVENTATIVE ACTION TAKEN TO REMEDY AND A COPY SHALL BE GIVEN TO THE OWNER AND MAINTAINED BY THE OWNER FOR THREE YEARS, OR FROM THE CONCLUSION OF LITIGATION.
- SOILS CONTAMINATED BY PETROLEUM, OR OTHER CHEMICAL SPILLS MUST BE TREATED AND DISPOSED IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY, OR HAZARDOUS WASTE TREATMENT STORAGE, OR DISPOSAL FACILITY (TSD) AT THE CONTRACTORS EXPENSE.

|DISTURBED AREA: 0.872 ACRES

(WORK LIMITS EQUAL LIMITS OF DISTURBANCE). SOIL = PREDOMINANTLY SILTY CLAY & SILTY SAND PRE CONSTRUCTION C = POST CONSTRUCTION C.

DRAINAGE AREA:

THE MUNCIPAL STORM SYSTEM CARRIES THE FLOW TO THE BLACK

GENERAL CONSTRUCTION ACTIVITIES:

THIS PROJECT WILL CONSTRUCT A NEW 4" FORCE MAIN, REPLACE AN EXISTING 4" FORCE MAIN , AND REPLACE AND EXISTING 8" SANITARY WITH A 10" SANITARY ALONG OVERBROOK ROAD.

CONSTRUCTION SEQUENCE

- THE CONTRACTOR SHALL COMPLY WITH ALL OEPA PERMITS AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS. CONTRACTOR SHALL POST NPDES PERMIT AND OTHER PERMITS ON-SITE AND MAINTAIN ON-SITE A COPY OF SWPPP.
- THE CONTRACTOR'S TRAILER MAY HAVE SANITARY FACILITIES AND SHALL HAVE A WATER SOURCE. ALL PERSONNEL INVOLVED WITH CONSTRUCTION ACTIVITIES MUST COMPLY WITH STATE AND LOCAL SANITARY REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SANITARY FACILITIES AT THE SITE THROUGHOUT THE CONSTRUCTION, WHICH MUST BE UTILIZED BY ALL CONSTRUCTION PERSONNEL AND SHALL BE SERVICED BY A COMMERCIAL OPERATOR. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).
- THE CONTRACTOR IS RESPONSIBLE FOR ALL NON-SEDIMENT POLLUTION CONTROLS AT THIS SITE, WHICH PREVENT NON-SEDIMENT POLLUTANTS FROM DISCHARGING INTO RUNOFF OR INTO THE GROUND AND MUST DISPOSE OF THEM IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES. IT IS PROHIBITED TO BURN, BURY, OR POUR OUT INTO THE GROUND, DITCH OR INTO A STORM SEWER, SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT, CURING COMPOUND AND OTHER SUCH TOXIC OR HAZARDOUS WASTE. STORAGE TANKS SHALL BE LOCATED IN DIKED AREAS AWAY FROM DRAINAGE CHANNELS AND THE DIKED AREA SHOULD HOLD A VOLUME OF 110% OF THE LARGEST TRUCK, OR TANK. SHOULD THE CONTRACTOR FAIL TO PREVENT NON-SEDIMENT POLLUTION AT THIS SITE, HE MUST IMMEDIATELY REMEDIATE THE SITE TO LOCAL, STATE AND FEDERAL REGULATORY AUTHORITIES' APPROVAL ENTIRELY AT HIS OWN EXPENSE. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM OF ONE SOLID WASTE DISPOSAL RECEPTACLE AND HAVE THIS RECEPTACLE EMPTIED BY A CONTRACT TRASH DISPOSAL SERVICE AND HAULED AWAY FROM THE SITE AS NECESSARY. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, ARE ALLOWED TO BE DISCHARGED FROM THE SITE WITH STORM WATER. ALL SOLID WASTE, INCLUDING DISPOSABLE MATERIALS INCIDENTAL TO THE MAJOR CONSTRUCTION ACTIVITIES, MUST BE COLLECTED AND PLACED IN THE RECEPTACLE. (SEE NOTE 1 UNDER SWPPP GENERAL NOTES).

CONSTRUCTION SEQUENCE (CONT.)

- 5. ALL CATCH BASINS OR INLETS WITHIN THE WORK LIMITS SHALL HAVE INLET PROTECTION INSTALLED AROUND THEM PRIOR TO DISTURBING THE UPSTREAM DRAINAGE AREA. THE INLET PROTECTION AROUND THESE BASINS OR INLETS SHALL NOT BE REMOVED UNTIL AFTER THE SITE IS STABILIZED.
- 6. CONSTRUCTION SHALL BE STAGED SUCH THAT LAWN DISTURBANCE IS KEPT TO A MINIMUM.
- 7. CLEAR AND GRUB.
- 8. THERE IS THE POTENTIAL TO ENCOUNTER GROUNDWATER IN TRENCHES. GROUNDWATER, STORMWATER AND SEDIMENT BEARING DRAINAGE SHALL BE FILTERED OR PONDED TO ALLOW REMOVAL OF SILT, SEDIMENT, DEBRIS, AND OTHER POLLUTANTS PRIOR TO DISCHARGE FROM THE SITE. THE SETTLED MATERIAL SHALL BE DISPOSED IN A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL. ALL FILTERED WATER SHALL BE DISCHARGED ONTO STONE AND NOT THE GROUND TO PREVENT EROSION. THERE SHALL BE NO TURBID OR MURKY DISCHARGES TO SURFACE WATERS OF THE STATE RESULTING FROM DEWATERING, OR BY-PASS PUMPING ACTIVITIES. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY DEWATERING INTO A SUMP PIT, DISCHARGE THROUGH A FILTER SOCK, OR BAG OR COMPARABLE PRACTICE APPROVED IN WRITING BY THE CITY PRIOR TO USE.
- 9. AS A MINIMUM, ALL STOCKPILES SHALL HAVE SILT FENCE PLACED 10' OFF AND ALONG THE BOTTOM FOOTPRINT OF THE FINAL STOCKPILE CONFIGURATION PRIOR TO PLACEMENT OF MATERIAL. IF THE STOCKPILE WILL BE INACTIVE FOR 21 DAYS OR MORE, THEN THE SURFACE SHALL BE SEEDED, OR STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY. THE STOCKPILE CAN BE LOCATED BY THE CONTRACTOR TO BEST FIT HIS MEANS AND METHODS, BUT AT NO TIME SHALL ALLOW SEDIMENT LADEN RUNOFF TO EXIT SITE. SILT FENCE SHALL BE PER ODOT 207, PERIMETER FILTER FABRIC FENCE.
- 10. INSTALL SANITARY SEWER AND NEW FORCEMAIN, DO NOT CONNECT SERVICES UNTIL PROPOSED MAIN IS ACCEPTED BY THE CITY. REPLACE EXISTING FORCEMAIN.
- 11. BEGIN GRADING OPERATIONS
- 12. STABILIZE WITH GRASS, STONE, SIDEWALK, OR PAVEMENT WITHIN 7 DAYS OF REACHING FINAL GRADE, OR WITHIN 7 DAYS OF LAST ACTIVITY IF IT WILL BE LEFT UNDISTURBED FOR 14 DAYS OR MORE. THE CONTRACTOR IS RESPONSIBLE TO PREVENT DISCHARGE OF WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS FROM MIXING WITH RUN-OFF AND LEAVING THE SITE. THE CONTRACTOR SHALL SIZE THE CONCRETE WASHOUT PIT TO HANDLE HIS PROPOSED CONCRETE OPERATIONS AND SHALL MAINTAIN THE PIT SUCH THAT ALL CONCRETE TRUCKS CAN USE IT TO WASHOUT. ALL CURED RESIDUE FROM THE PIT SHALL BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL LOCATE THE WASHOUT PIT ON THE PLANS PRIOR TO HIS CONCRETE OPERATIONS AND THE WASHOUT PIT SHALL BE LOCATED AWAY FORM WATERCOURSES. (SEE NOTE 1 UNDER GENERAL NOTES).
- 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL DUST CONTROL AND SHALL SUPPLY WATER TRUCKS, OR OTHER MEANS, AS NECESSARY, TO CONTROL DUST GENERATED BY CONSTRUCTION ACTIVITIES ON THE SITE TO THE SATISFACTION OF THE OWNER. IF DUST CONTROL SUPPRESSANTS ARE USED, THEN THEY CANNOT BE APPLIED NEAR CATCH BASINS, OR OTHER DRAINAGE WAYS. USED OIL CANNOT BE USED AS A DUST SUPPRESSANT.
- 14. AT COMPLETION OF CONSTRUCTION AND THE SITE IS SUFFICIENTLY STABILIZED, THE TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE REMOVED. THE CONTRACTOR SHALL THOROUGHLY CLEAN CONDUITS AND MISCELLANEOUS APPURTENANT STRUCTURES TO THE SATISFACTION OF THE OWNER. ALL SEDIMENT SHALL BE REMOVED FROM THE STORM SYSTEM, DITCHES, SWALES OR OTHER DRAINAGE COURSES AND DISPOSED OF AT A STABILIZED LOCATION WHERE IT WILL NOT BE CARRIED OFF-SITE OR INTO A STORM SEWER BY RAINFALL
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SEDIMENT AND EROSION CONTROL ITEMS AT ANY OFF-SITE BORROW OR SPOIL AREAS REQUIRED FOR THIS PROJECT.
- 16. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.
- 17. LUMP SUM PAYMENT FOR EROSION AND SEDIMENT CONTROL SHALL INCLUDE THE INSTALLATION, MAINTENANCE, INSPECTION, AND REMOVAL UPON COMPLETION OR WHEN THE UPSTREAM DRAINAGE AREAS BECOME STABILIZED. IT INCLUDES THE FOLLOWING ITEMS: ROCK CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, STAGING & PARKING AREA, NON-POLLUTION CONTROLS, SANDBAG BARRIER, WASHOUT PIT EROSION CONTROL MATTING, DUST CONTROL, GROUNDWATER CONTROL. PERMANENT SEEDING AND TEMPORARY SEEDING (IF REQUIRED).

18. CONTRACTOR SHALL DISPLAY AND MAINTAIN A COPY OF THE SWPPP AND INSPECTION LOGS ON SITE AT ALL TIMES.

TEMPORARY AND PERMANENT SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF A 0.5 INCHES OR GREATER RAINFALL AND REESTABLISHED AS NECESSARY. INSPECTION SHALL BE LOGGED AND THE REPORT KEPT ON SITE FOR THE OHIO EPA.

A WRITTEN RECORD DOCUMENTING THE RESULTS OF THESE INSPECTIONS MUST BE MAINTAINED WITH THE SWPPP. DISTURBED

AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWPPP FURTHERMORE, THE CONTRACTOR SHALL ENSURE THAT THE MEASURES ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING. WHITMAN BLVD, CANTERBURY ROAD, STAFFORD DRIVE, HARTFORD DRIVE, AND NEIGHBORING ROADS SHALL BE INSPECTED DAILY AND CLEANED OF SEDIMENT AND DEBRIS.

IF UNFORESEEN ENVIRONMENTAL CONDITIONS ARE ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BECOME NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE TO AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT COULD DISCHARGE POLLUTANTS TO "THE WATERS" AT THE CONSTRUCTION SITE. THE REVISION TO THE SWPPP MUST BE COMPLETED AS SOON AS PRACTICAL AND BEFORE THE NEXT STORM EVENT. ADDITIONAL EROSION CONTROL MEASURES MAY ALSO BE REQUESTED BY THE OWNER, LOCAL AUTHORITY, PROJECT ENGINEER, SOIL CONSERVATION SERVICE REPRESENTATIVE OR OEPA AT ANYTIME. SUCH REQUEST SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

SHOULD AN ACCIDENTAL SPILL OCCUR, IMMEDIATE ACTION SHALL BE UNDERTAKEN BY THE GENERAL CONTRACTOR TO CONTAIN AND REMOVE THE SPILLED MATERIAL IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. AS SOON AS POSSIBLE, ALL SPILLS >25 GALLONS SHALL BE REPORTED TO THE APPROPRIATE STATE AND LOCAL AGENCIES. THIS SHALL INCLUDE THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, THE NATIONAL RESPONSE CENTER AT 800-424-8802 AND THE LORAIN COUNTY OFFICE OF EMERGENCY MANAGEMENT & HOMELAND SECURITY (440-329-5117).

MAINTENANCE

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED AND AS SOON AS POSSIBLE TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL COMPLY WITH THE MAINTENANCE REQUIREMENTS FOR THE PROPOSED EROSION CONTROLS.

STABILIZATION

PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART III G.2.b OF THE OEPA AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES, AS STATED BELOW:

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY DISTURBED AREAS WITHIN 50 FT. OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FT. OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITHIN 50 FT. OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

NETTING AND WOOD CELLULOSE SHALL BE USED FOR MULCH ONLY

PERMANENT SEEDING

PERMANENT SEED MIXTURE SHALL BE ODOT 659.09-1, CLASS 1, UNLESS OTHERWISE NOTED.

IF BROADCAST SEEDING, SEED BETWEEN AUGUST 15 TO OCTOBER 30. IF NECESSARY TO SEED BEFORE AUGUST 15, BUT AFTER MARCH 1 INCREASE THE SEEDING RATES BY 5 PERCENT.

BETWEEN MARCH 1 AND OCTOBER 30, THE CONTRACTOR MAY USE HYDROSEEDING, WHICH APPLIES THE MULCH, SEED, WATER, AND COMMERCIAL FERTILIZER IN THE SAME OPERATION.

BETWEEN NOVEMBER 1 AND FEBRUARY 29. THE CONTRACTOR SHOULD APPLY TEMPORARY . OR DORMANT SEED AND MULCH.

THE GERMINATION RATE AS FOLLOWS:

SPECIES	MINIMUM PERCENT	HIGH QUALITY PERCENT
KENTUCKY BLUEGRASS	80	85
FINE FESCUE	85	90
PERENNIAL RYEGRASS	85	90
ANNUAL RYEGRASS	85	90
TALL FESCUE	85	90
CREEPING RED FESCUE	85	90

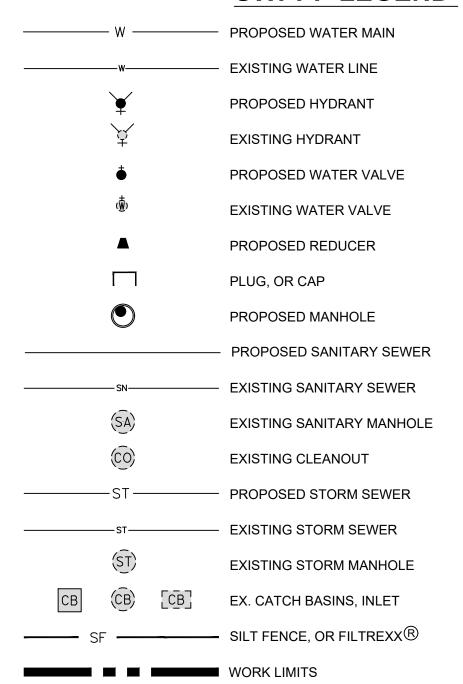
THE MINIMUM SEED PURITY IS 98%.

PLACE 4 INCHES OF TOPSOIL ON AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED IN THE PLANS.

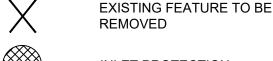
SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED A HEALTHY STAND OF GRASS. WITH AT LEAST 80% UNIFORM DENSITY COVERAGE. THEN THE AREA SHALL BE RESERVED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

FOR TEMPORARY SEED SPECIFICATION SEE DETAIL SHEET CSWP D1.

SWPPP LEGEND



RUNOFF FLOW DIRECTION



INLET PROTECTION

SHEET NUMBER

SWPPP 3



OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

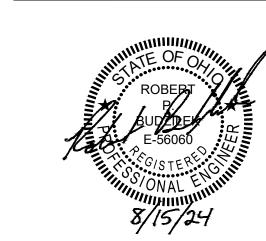
CONSULTANT

1300 EAST 9TH STREET, SUITE 500 CLEVELAND, OH 44114 216.622.2300 tel 216.622.2301 fax www.aecom.com

CONSULTANTS

SURVEY KS ASSOCIATES, INC. 260 BURNS ROAD, SUITE 100 ELYRIA. OH 44035 440 465 4730 tel 440 365 4790 fax www.ksassociates.com

REGISTRATION



ISSUE/REVISION

08/15/2024 | BID DOCUMENTS

DESCRIPTION

PROJECT NUMBER

60332065

SHEET TITLE

DATE

SWPPP GENERAL NOTES

STABILIZED CONSTRUCTION ENTRANCE

1. THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS PRACTICAL BEFORE GRADING, OR WITHIN 7 DAYS OF FIRST GRUBBING.

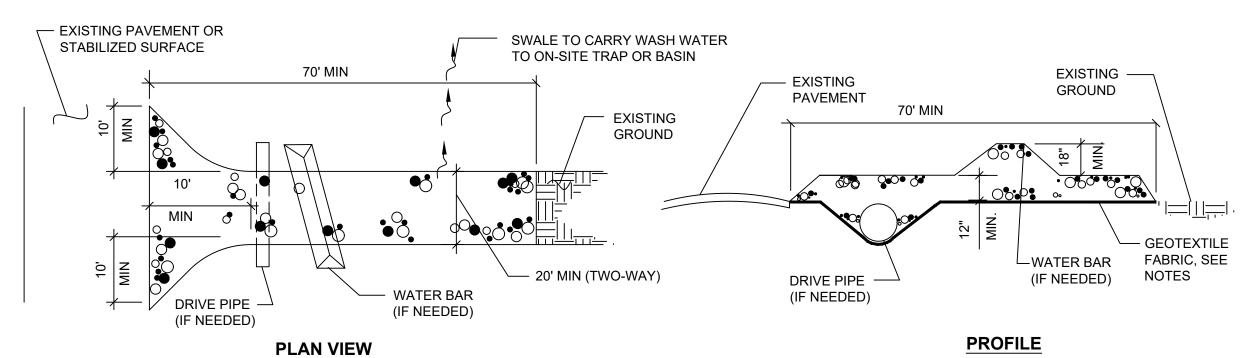
- 2. THE AGGREGATE USED SHALL BE ODOT NO. 2 STONE OR RECYCLED CONCRETE EQUIVALENT. PLACE THE GRAVEL FLUSH TO THE EXISTING ADJACENT PAVEMENT, SMOOTH IT, AND LEVEL IT AS REQUIRED.
- 3. THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN 70 FEET
- 4. THE THICKNESS OF THE ENTRANCE SHALL NOT BE LESS THAN 12-INCHES.
- 5. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS AND IN ANY CASE SHALL NOT BE LESS THAN 14 FEET WIDE FOR ONE-WAY TRAFFIC AND 20 FEET WIDE FOR TWO WAY TRAFFIC.
- 6. A GEOTEXTILE FABRIC SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET ODOT 712.09. TYPE B SPECIFICATIONS.
- 7. A DRIVE PIPE SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE, OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- 8. A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED, TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- 9. DRIVING OVER ROCK IN CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY MUD ON THE VEHICLE INCLUDING WHEELS BY WASHING, OR OTHER APPROVED MEANS, PRIOR TO THE VEHICLE LEAVING THE SITE. WASH WATER MUST BE PROVIDED BY THE CONTRACTOR AND CARRIED AWAY FROM THE ENTRANCE TO AN ON-SITE SETTLING AREA TO REMOVE THE SEDIMENT, OR DISPOSE OFFSITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

10. CONSTRUCTION ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

INSPECTION AND MAINTENANCE

1. CONSTRUCTION ENTRANCE SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT AND AT LEAST DAILY DURING A PROLONGED RAINFALL

- 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY(S). THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. WHEN THE STONE IN THE ENTRANCE LOOSES ITS SHAPE, BECOMES LESS THAN 12" DEEP, WHEN THE STONE BECOMES SEDIMENT-LADEN OR HARD PACKED, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE STONE AND SEDIMENT AND REPLACE THE ENTRANCE WITH 12" OF NEW STONE. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- 3. REMOVED SEDIMENT AND STONE SHALL BE DISPOSED BY THE CONTRACTOR IN AN AREA PREVIOUSLY APPROVED BY THE LOCAL AUTHORITIES. AT NO TIME SHALL THE SEDIMENT BE PLACED IN AN AREA THAT WILL CONTRIBUTE SEDIMENT TO OFF-SITE AND IS NOT PERMANENTLY STABLE.



STABILIZED CONSTRUCTION ENTRANCE

TEMPORARY SEEDING SPECIFICATIONS

SEEDING DATES	TYPE	APPLICATION RATE
NOVEMBER 1 TO FEBRUARY 29	ANNUAL RYEGRASS (ODOT 659.09-1, CLASS 7 TEMPORARY EROSION CONTROL MIXTURE)	2.02 (LB./1000 SF)
	DORMANT SEEDING MULCHING (PER ODOT 659.15)	

THE GERMINATION RATE IS AS FOLLOWS:

SPECIES	MINIMUM PERCENT	HIGH QUALITY PERCENT
ANNUAL RYEGRASS	85	90

THE MINIMUM SEED PURITY IS 98%.

PLACE 4 INCHES OF TOPSOIL ON AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED IN THE PLANS.

SITE PREPARATION: PRIOR TO PLACEMENT THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHOULD NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

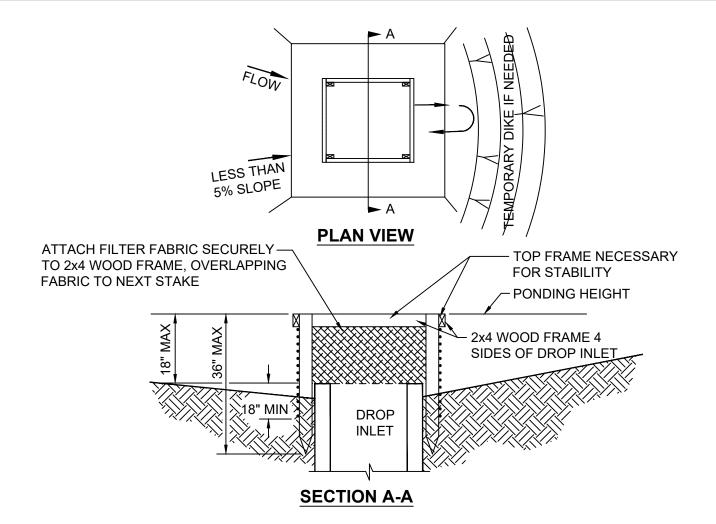
SOIL AMENDMENTS: TEMPORARY VEGETATION SEEDING RATES SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION, WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATES FOR LIME AND FERTILIZER SHALL BE USED PER SEED SUPPLIER RECOMMENDATIONS.

SEEDING METHOD: SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CUTTIPACKER OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CUTTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED A HEALTHY STAND OF GRASS, WITH AT LEAST 80% UNIFORM DENSITY COVERAGE, THEN THE AREA SHALL BE RESEEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

INSPECTION AND MAINTENANCE

INSPECT AND MAINTAIN THE TEMPORARY SEED WEEKLY AND AFTER EACH RAIN AND PROMPTLY MAKE REPAIRS TO ALL BARE AREAS AS NEEDED. RESEED AS NECESSARY TO ESTABLISH AN 80% UNIFORM GROWTH OVER THE ENTIRE AREA.



INSPECTION AND MAINTENANCE

- 1. INSPECT THE INLET PROTECTION WEEKLY AND AFTER EACH RAIN EVENT. AREAS WHERE THERE IS ACTIVE TRAFFIC SHALL BE INSPECTED DAILY. PROMPTLY MAKE REPAIRS AS NEEDED TO ENSURE THE THE PRACTICE IS PERFORMING AS INTENDED.
- 2. SEDIMENT SHALL BE REMOVED AFTER EACH SIGNIFICANT STORM (1/2" IN 24 HOURS) TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN, OR WHEN ACCUMULATION IS ONE HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET.
- 3. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

GEOTEXTILE INLET SEDIMENT BARRIER

- 1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS, OR BEFORE THE INLET BECOMES FUNCTIONAL.
- 2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
- 3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 INCH BY 4 INCH CONSTRUCTION GRADE LUMBER, LENGTH 3 FEET MINIMUM AND SPACED 3 FEET MAXIMUM. THE 2 INCH BY 4 INCH POSTS SHALL BE DRIVEN 18 INCHES INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 INCH BY 4 INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN IN THE SILT FENCE DETAIL. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- 4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- 5. GEOTEXTILE SHALL BE PER ODOT 712.09, TYPE C, HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- 6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6 INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- 7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.

GEOTEXTILE INLET PROTECTION

WINTER STABILIZATION

IF THE PROJECT EXTENDS TO THE WINTER MONTHS, THE SITE SHALL BE STABILIZED WITH TEMPORARY SEED, STONE OR TEMPORARY PAVEMENT UNTIL THE SEASON ALLOWS COMPLETION OF THE CONTRACT. THE CONTRACTOR AND CITY SHALL EVALUATE THE PROJECT ON OCTOBER 1 TO SEE IF IT CAN BE COMPLETED IN THE CONSTRUCTION SEASON.

GRADING AND STABLIZATION ACTIVITY LOG

AREA DESCRIPTION	DATE AREA FIRST DISTURBED	DATE OF NO WORK IN AREA	DATE OF REACHING FINAL GRADE	BEGIN DATE OF STABILIZATION IN AREA

- 1. ALL EARTHWORK ACTIVITIES MUST BE DOCUMENTED IN THIS TABLE.
- 2. TEMPORARY SEDIMENT AND EROSION CONTROLS SHALL BE PLACED WITHIN 7 DAYS OF LAST ACTIVITY IN AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR MORE.
- 3. AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE.

OVERBROOK PUMP STATION II DESIGN

WASTEWATER POLLUTION CONTROL PLANT 1194 GULF ROAD ELYRIA, OH

CLIENT

CITY OF ELYRIA

DEPARTMENT OF PUBLIC SERVICE 131 COURT STREET ELYRIA, OH

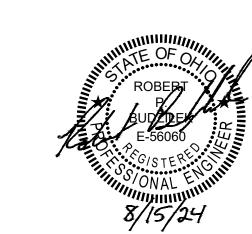
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I/R	DATE	DESCRIPTION

PROJECT NUMBER

60332065

SHEET TITLE

SWPPP DETAILS I

SHEET NUMBER

SWPPP 4

SILT FENCE

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE DISTURBANCE BEGINS OR WITHIN 7 DAYS OF FIRST GRUBBING. SILT FENCE IS NOT PERMITTED TO BE USED FOR CONTROLLING CONCENTRATED SURFACE WATER FLOW (ONLY SHEET FLOW).

2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS THAT MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3. ENDS OF THE SILT FENCES SHALL BE BROUGHT UPSLOPE SLIGHTLY 2'±, OR AS REQUIRED SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.

4. SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RESTORED WITHIN 7 DAYS FROM INSTALLATION OF THE SILT FENCE.

6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. STORAGE HEIGHT SHALL NOT EXCEED HALF OF THE TOTAL HEIGHT ABOVE THE ORIGINAL GROUND.

7. THE SILT FENCE SHALL BE PLACED IN AN EXCAVATED OR SLICED TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE MADE WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE, OR OTHER SUITABLE DEVICE THAT WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE. A MINIMUM OF 8 INCHES OF GEOTEXTILE MUST BE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL BE ON THE BOTTOM OF THE 6 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED ON BOTH SIDES OF THE FABRIC.

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCHES OVERLAP PRIOR TO DRIVING INTO THE GROUND. IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS.

10. A WIRE MESH SUPPORTED FENCE SHALL BE USED WITH STANDARD STRENGTH FILTER FABRIC AND FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1-INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2-INCHES AND SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE. THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED, OR WIRED TO THE FENCE AND 8-INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36-INCHES ABOVE THE ORIGINAL GROUND SURFACE.

11. SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 10 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME. SILT FENCES ARE TO BE USED ONLY IN SITUATIONS IN WHICH SHEET FLOW IS EXPECTED, BUT NOT IN DRAINAGE DITCHES, CHANNELS, OR RAVINES IN WHICH CHANNELIZED FLOW OCCURS.

INSPECTION AND MAINTENANCE

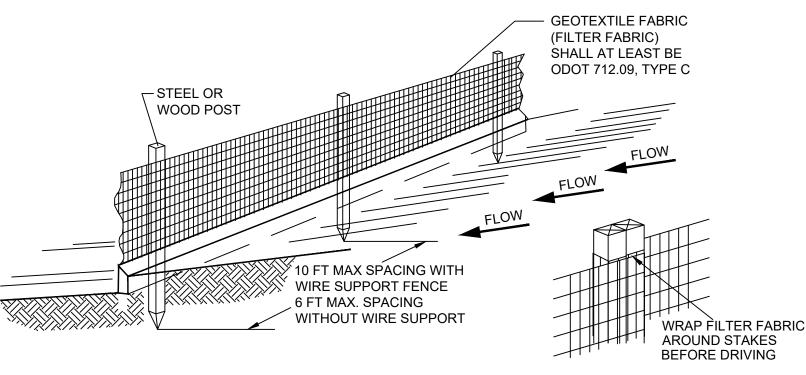
1. SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REVIEWED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

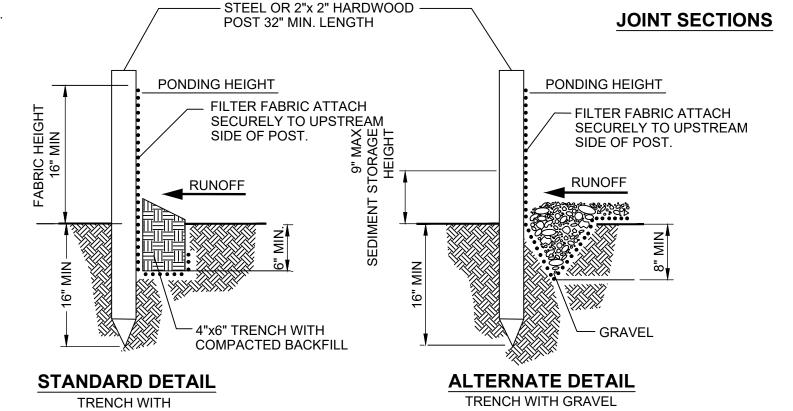
2. SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN IT REACHES 1/2± THE HEIGHT OF THE SILT FENCE.

3. THE FABRIC SHALL BE REPLACED WHEN IT IS TORN, HAS HOLES, DECOMPOSES OR IS NO LONGER DETAINING WATER FOR SEDIMENTATION AND THE BARRIER IS STILL REQUIRED. THE POSTS SHALL BE REPLACED IF THEY ARE BENT OR BROKEN. FENCES THAT ARE KNOCKED DOWN OR HAVE JOINTS THAT ARE SEPARATED OR ARE BEING UNDERCUT BY FLOWS SHALL BE REPLACED IMMEDIATELY.

4. SEDIMENT REMOVED SHALL BE DISPOSED IN AN AREA PREVIOUSLY APPROVED BY THE LOCAL AUTHORITIES AND OWNER. AT NO TIME SHALL SEDIMENT BE PLACED IN AN AREA THAT WILL CONTRIBUTE SEDIMENT OFF-SITE AND IS NOT PERMANENTLY STABLE.

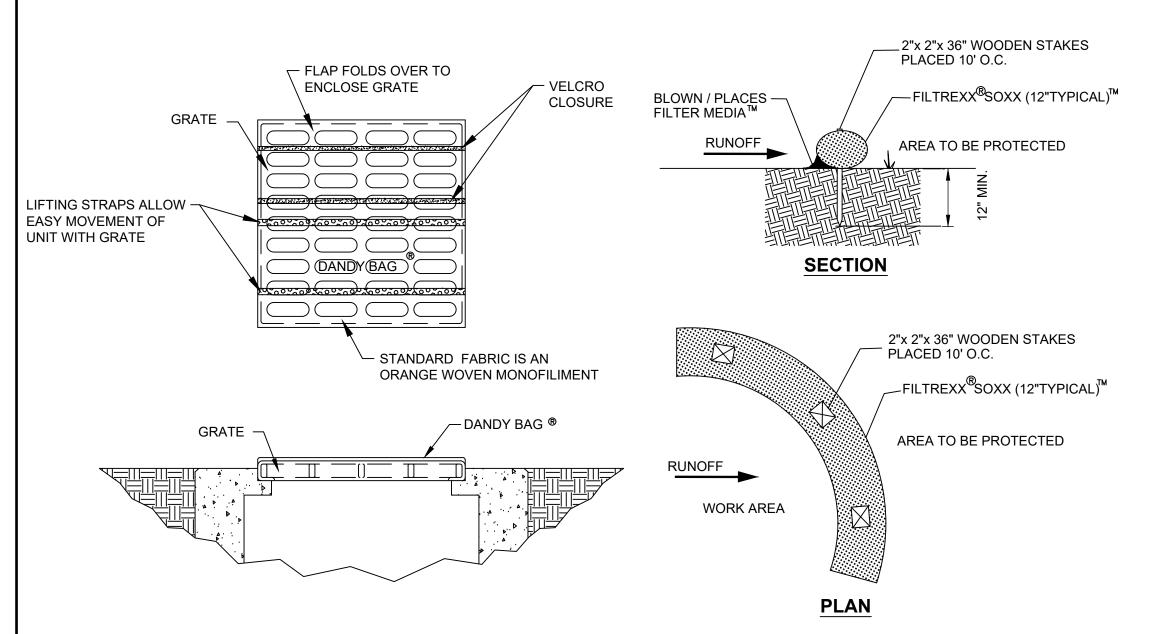
SILT FENCE MAXIMUM DRAINAGE AREA BASED ON SLOPE LENGTH			
SLOPE		SLOPE LENGTH (FT)	
0% - 2%	FLATTER THAN 50:1	250	
2% - 10%	50:1 - 10:1	125	
10% - 20%	10:1 - 5:1	100	
20% - 33%	5:1 - 3:1	75	
33% - 50%	3:1 - 2:1	50	
> 50% > 2:1		25	





SILT FENCE

NATIVE BACKFILL



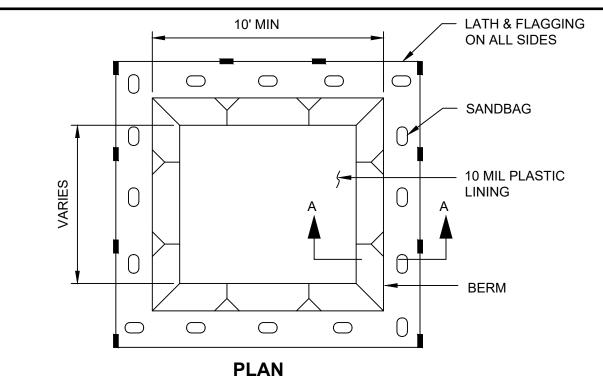
INSPECTION AND MAINTENANCE

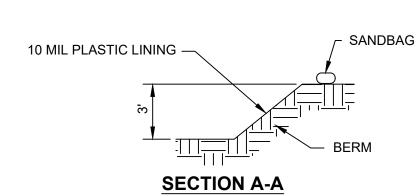
INSTALLATION: THE EMPTY DANDY BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

DANDY BAG

N.T.S.





TEMPORARY CONCRETE WASHOUT FACILITY (BELOW GROUND)

1. TEMPORARY CONCRETE WASHOUT FACILITIES (TYPE BELOW GRADE)
SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL, WITH A
RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET.
THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL
LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

2. LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.

3. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

INSPECTION AND MAINTENANCE

THE CONTRACTOR SHALL INSPECT AND REPAIR WASHOUT FACILITY WHEN IT LOSES ITS SHAPE, OR BECOMES PERMEABLE. ALWAYS MAINTAIN WASHOUT FACILITY SUCH THAT IT HANDLES ALL CONCRETE OPERATIONS AND REMOVE WASTE CONCRETE AND CAPTURED DEBRIS AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATION.

CONCRETE WASHOUT PIT (TYPE BELOW GRADE)



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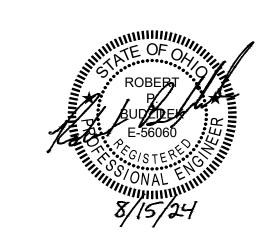
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REGISTRATION



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SHEET TITLE

SWPPP DETAILS II

SHEET NUMBER

SWPPP 5

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ALL TRENCHES SHALL BE EXCAVATED ON THE ALIGNMENT AND TO THE ELEVATIONS AS INDICATED ON THE APPROVED DRAWINGS. ANY FIELD REVISIONS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE CITY ENGINEER.

WHERE WORK IS NEAR UTILITY ITEMS THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY 48 HOURS IN ADVANCE OF BEGINNING ANY EXCAVATION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE CITY OF ELYRIA 72 HOURS IN ADVANCE OF **BEGINNING ANY EXCAVATION.**

SANITARY SEWER TRENCH CONSTRUCTION AND SPECIFICATIONS

THE SOIL SURFACE AT THE TRENCH BOTTOM SHALL BE FREE OF ANY PROTRUSIONS WHICH MAY CAUSE POINT LOADING ON ANY PORTION OF THE PIPE OR PIPE BELL, AND SHALL PROVIDE A FIRM, STABLE AND UNIFORM SUPPORT FOR PIPE.

WHEN AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED IT MUST BE STABILIZED. ANY SPECIAL FOUNDATION WORK REQUIRED SHALL BE CONSIDERED EXTRA WORK SUBJECT TO EXTRA PAYMENT.

OVER EXCAVATION SHALL BE FILLED WITH AN APPROVED EMBEDMENT MATERIAL AND COMPACTED TO A DENSITY EQUAL TO THAT OF THE NATIVE SOIL AT NO EXPENSE TO THE CITY.

ROCKS, HARD PAN, COBBLES, BOULDERS OR STONES LARGER THAN 1-1/2" SHALL BE REMOVED FROM THE TRENCH BOTTOM TO PERMIT A MINIMUM BEDDING THICKNESS OF 6 INCHES UNDER THE PIPE WHEN THE BOTTOM OF THE TRENCH IS IN BEDROCK AND 12 INCHES UNDER THE PIPE WHEN THE BOTTOM OF THE TRENCH IS IN LOOSE SILTS AND SANDS.

EMBEDMENT MATERIAL SHALL BE PLACED IN 6" LIFTS AND COMPACTED EITHER BY HAND OR MECHANICAL MEANS. SEE DETAIL.

IN USING COMPACTION EQUIPMENT, AVOID CONTACT WITH THE PIPE AND DO NOT COMPACT DIRECTLY OVER THE PIPE UNTIL SUFFICIENT BACKFILL HAS BEEN PLACED OVER THE PIPE TO AVOID DAMAGE TO THE PIPE.

BEDDING SHALL BE USED TO BRING THE TRENCH BOTTOM TO GRADE AND SHALL PROVIDE UNIFORM SUPPORT UNDER THE PIPE. BLOCKING SHALL NOT BE USED. BELL HOLES AT EACH JOINT SHALL BE PROVIDED TO PERMIT JOINT ASSEMBLY WHILE PROVIDING UNIFORM PIPE SUPPORT. BEDDING FOR THE 60-INCH TO 78-INCH FRPMP PIPE SHALL BE PER ASTM D3839, FOR THE DUAL 42-INCH DUCTILE IRON PER AWWA C600 AND FOR THE 4-INCH TO 42-INCH PVC PER ASTM D2321.

THE MOST IMPORTANT FACTOR AFFECTING THE PIPE PERFORMANCE AND DEFLECTION IS THE PLACEMENT OF THE HAUNCHING MATERIAL. THE HAUNCHING MATERIAL SHALL BE PLACED AND CONSOLIDATED AVOIDING BOTH VERTICAL AND LATERAL DISPLACEMENT OF THE PIPE FROM PROPER ALIGNMENT.

LITTLE OR NO TAMPING OF THE INITIAL BACKFILL DIRECTLY OVER THE TOP OF THE PIPE TO A POINT 12" ABOVE THE PIPE SHALL BE PERMITTED. FINAL BACKFILL SHALL BE COMPACTED TO AN APPROVED DENSITY EQUAL TO ADJOINING SOIL MATERIALS.

LAYING, UNLOADING AND STORING PROCEDURE PER MANUFACTURER RECOMMENDATIONS.

NO CURVED ALIGNMENTS SHALL BE USED.

THE FINAL BACKFILL MATERIAL MUST NOT CONTAIN BOULDERS, FOREIGN CLUMPS OF DIRT OR RUBBLE, FROZEN OR ORGANIC MATTER. PREMIUM BACKFILL TO PLACED IN ALL TRENCHES UNDER PAVEMENT, DRIVE AREAS, OR SIDEWALKS AND EXTEND 5' BEYOND THE PAVEMENT, DRIVE EDGE OR SIDEWALK ON EITHER SIDE. PREMIUM BACKFILL SHALL BE ODOT 304 LIMESTONE. SPECIAL BACKFILL SHALL BE PLACED WITH APPROVED COMPACTION. IN LAWN OR OPEN AREAS, FREE OF PROPOSED IMPROVEMENTS, THE EXCAVATED MATERIAL OF ACCEPTABLE NATURE MAY BE USED AS BACKFILL

ALL PVC PIPE MUST HAVE 48 INCHES OF COVER BEFORE BEFORE HYDROHAMMER OR IMPACTOR TYPES OF COMPACTORS MAY BE USED OVER THE PIPE. THE USE OF SUCH COMPACTORS SHALL REQUIRE THAT THE EMBEDMENT WAS PLACED TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR FOR AREAS NOT IN PAVEMENT AND AT LEAST 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR FOR AREAS UNDER PAVEMENT.

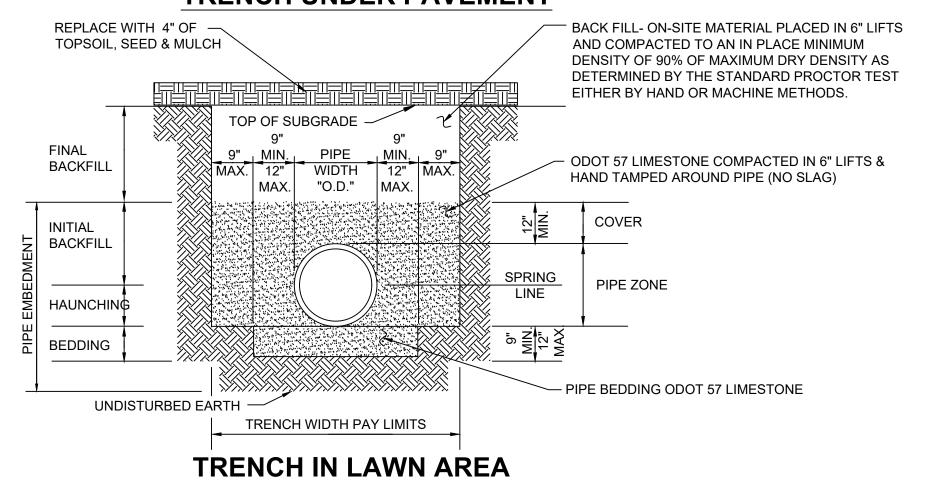
RECYCLED 304 WILL BE PERMITTED W/ CITY APPROVAL FOR USE IN SEWER TRENCHES UP TO WITHIN 3 FEET FROM THE TOP OF PAVEMENT. RECYCLED 304 MAY NOT BE USED IN WATERLINE TRENCHES.

- EXISTING ASPHALT PAVEMENT REMOVAL — SAWCUT EXISTING ASPHALT — 1 1/2" SURFACE GRIND — EX. ASPHALTIC CONCRETE PAVEMENT REMOVAL — EX. BASE COURSE - EX. COMPACTED SUBGRADE ODOT ITEM 448, TYPE-1 - ASPHALT CONCRETE - ODOT ITEM 407 - TACKCOAT — ODOT ITEM 448, TYPE-2 - ASPHALT CONCRETE EX. ASPHALTIC CONCRETE PAVEMENT REPLACEMENT — EX. BASE COURSE - EX. COMPACTED SUBGRADE **Details - Civil Asphalt Pavement** NOTE: MATCH EXISTING PAVEMENT IN KIND FOR MINIMUM

Repair

MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST (NO SLAG). PAVEMENT REMOVAL PAY LIMITS - SAW CUT (TYP) TOP OF SUBGRADE -- ODOT 57 LIMESTONE COMPACTED IN 6" WIDTH LIFTS & HAND TAMPED AROUND PIPE. **BACKFILL** MAX. "O.D." (NO SLAG) COVER INITIAL **BACKFILL** I.D. PIPE HAUNCHING BEDDING - PIPE BEDDING PER ASTM C-12 UNDISTURBED EARTH -TRENCH WIDTH PAY LIMITS

TRENCH UNDER PAVEMENT



Asphalt Pavement

TYPICAL SEWER TRENCH DETAIL

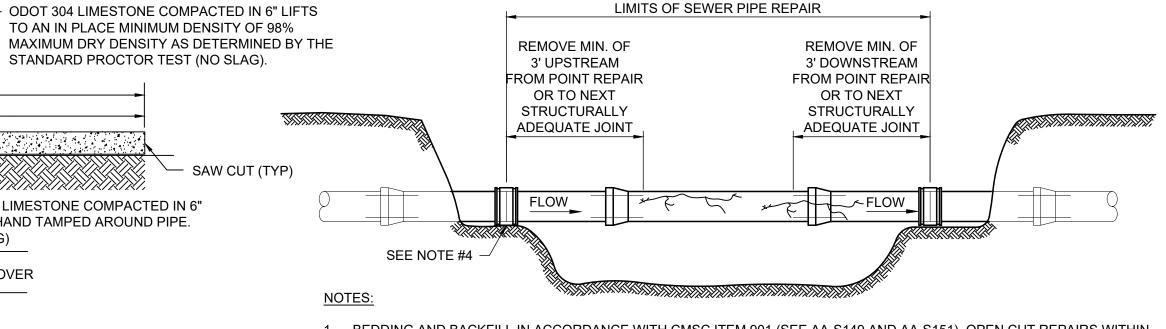
-1 1/2" ODOT 448, TYPE-1 SURFACE COURSE -TACKCOAT ODOT 407 -2 1/2" ODOT 448, TYPE-2 INTERMEDIATE COURSE -PRIME COAT ODOT 408 -9" AGGREGATE BASE COURSE ODOT 304 - LIMESTONE ONLY -INSTALL 9" AGGREGATE BASE COURSE IN TWO EQUAL 4.5" LIFTS -COMPACTED SUBGRADE ODOT 204 REGULAR DUTY ASPHALT PAVEMENT Details - Civil

NOTE: TO COMPLY WITH THE REQUIREMENTS OF THE EARTHWORK

5% MAX., NOT 0%-15% AS ALLOWED PER ODOT ITEM 304.

SPECIFICATIONS, FOR ALL PAVEMENTS, THE MAXIMUM FINES PASSING

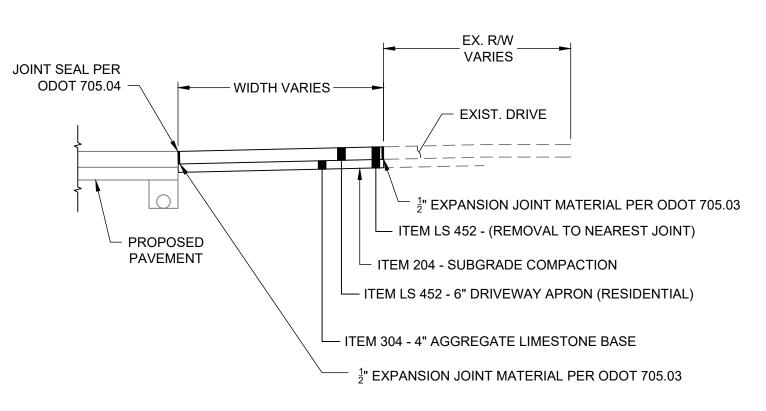
THE #200 SIEVE FOR THE ODOT ITEM 304 SHALL BE RESTRICTED TO



1. BEDDING AND BACKFILL IN ACCORDANCE WITH CMSC ITEM 901 (SEE AA-S149 AND AA-S151). OPEN CUT REPAIRS WITHIN RIGHT OF WAY OR PAVEMENT SHALL USE COMPACTED GRANULAR BACKFILL, CMS ITEM 912.

- 2. CONTRACTOR SHALL ARRANGE FOR ACCESS TO POINT REPAIR LOCATION AND WORK WITHIN EXISTING EASEMENT.
- 3. CONTRACTOR SHALL VERIFY LOCATION AND LENGTH OF POINT REPAIR USING CCTV TAPES AND LOGS AND FIELD INVESTIGATIONS. THE UNIT PRICE OF POINT REPAIR SHALL INCLUDE ALL REMOVALS, ACTUAL REQUIRED LENGTH AT POINT REPAIR, AND ALL RESTORATION WORK. POINT REPAIR STATIONS SHOWN ON THE PLANS ARE APPROXIMATE.
- 4. PLASTIC TO PLASTIC REPAIRS SHALL REQUIRE A HARD FITTING. FOR ALL OTHER PIPE MATERIALS THE FITTINGS SHALL BE FERNCO COUPLINGS SERIES #5000 OR APPROVED EQUAL
- 5. CONCRETE ENCASEMENT SHALL NOT BE USED ON FLEXIBLE PIPE POINT REPAIRS UNLESS THE ENTIRE SEWER SEGMENT WAS PREVIOUSLY CONCRETE ENCASED.

OPEN CUT POINT REPAIR DETAIL



CONCRETE DRIVE APRON REPAIR DETAIL

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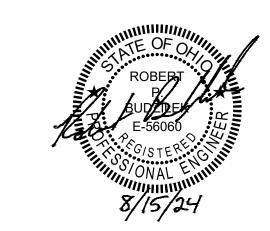
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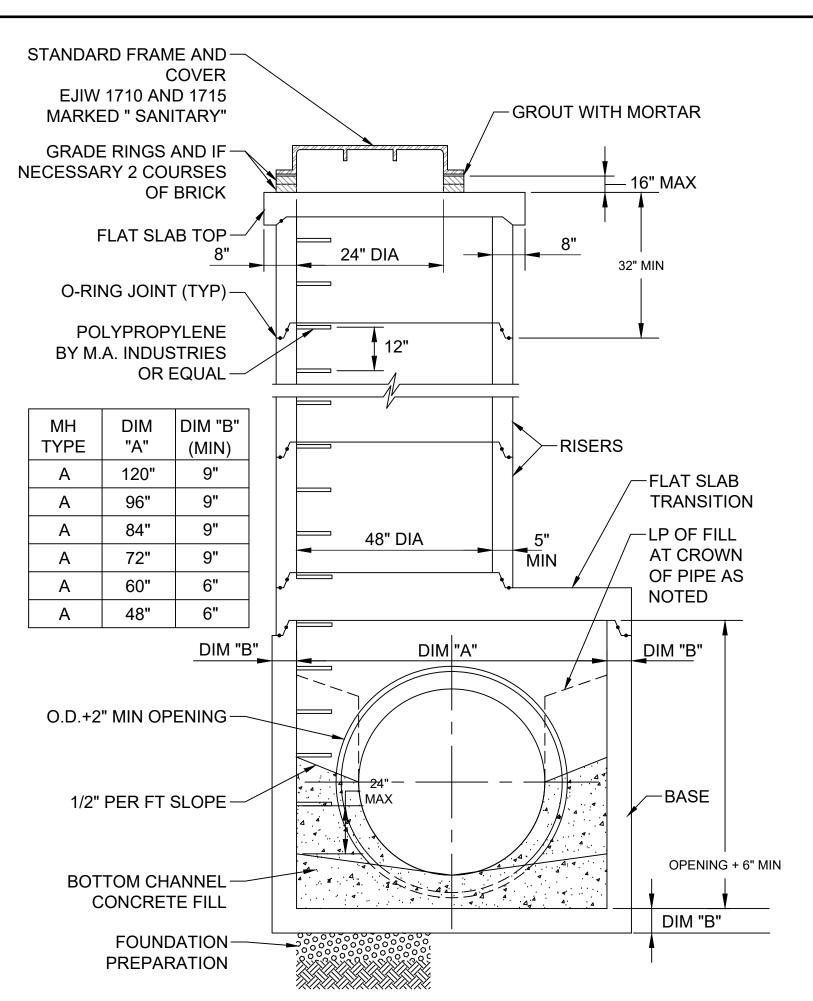
SHEET TITLE

TYPICAL TRENCH & WATERMAIN DETAILS

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PAVEMENT MATERIAL THICKNESS



SANITARY MH SCHEDULE

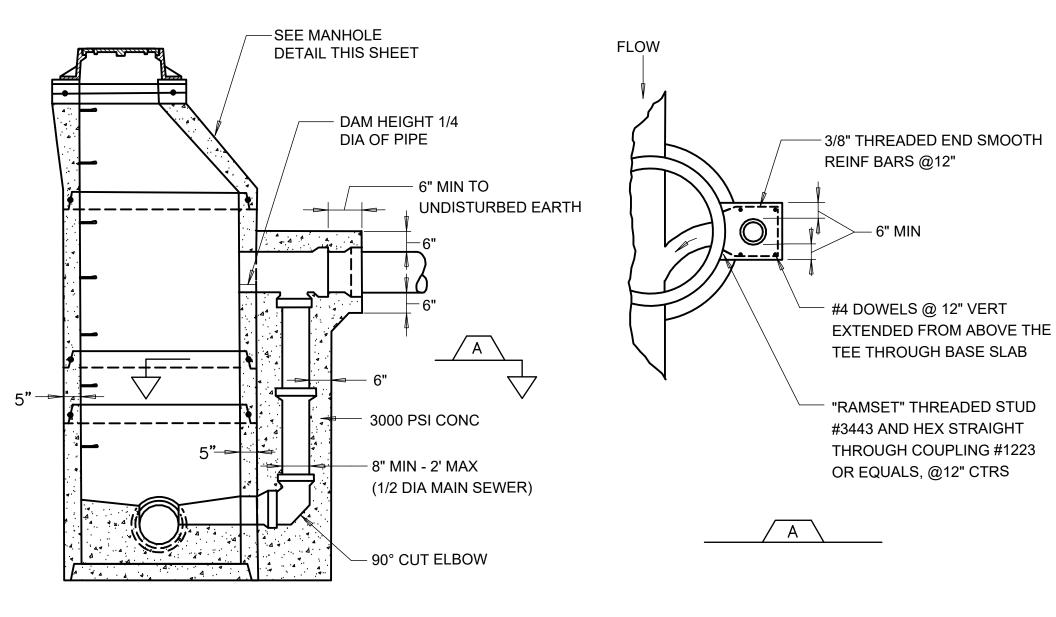
MH ID#	MH TYPE	DIM "A"	INTERNAL ANGLE	DROP
XXX	"A"	96"		
XXX	"C"	72"	0 °	
XXX	"C"	72"	0 °	

PRECAST CONCRETE / DROP MH NOTES:

- 1. THE PRECAST MANHOLE DESIGN SHALL BE IN ACCORDANCE WITH ASTM C478 WITH JOINTS PER ASTM C443.
- 2. SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED AND FURNISHED AS SOLID SECTION WITHOUT LIFT HOLES OF ANY KIND.
- 3. BASES FOR MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISERS WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPE SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR INSTALLED BY FIELD CONSTRUCTION. FLOORS MAY ALSO BE POURED IN PLACE.
- 4. OPENINGS IN RISER SECTIONS SHALL BE PREFABRICATED. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR SANITARY AND STORM SEWERS. PREMIUM SEALS SHALL MEET ASTM C-923.
- 5. JOINT SEALS BETWEEN PRECAST MANHOLE SECTIONS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS. JOINTS SHALL MEET ASTM
- 6. MANHOLE GRADE RINGS SHALL BE SEALED EXTERNALLY AND BETWEEN GRADE RINGS WITH A LAYER OF MASTIC COMPOUND SUCH AS FABERLITE, KENT SEAL, OR EQUAL.
- 7. PRECAST MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
- 8. MINIMUM CLEARANCE FROM TOP OF FILL TO BOTTOM OF FLAT SLAB TRANSITION
- 9. APPLY "THOROSEAL" BY THORO SYSTEM PRODUCTS, OR APPROVED EQUAL TO THE INSIDE EXPOSED SURFACES OF ALL MANHOLES.

MANHOLE TYPE A PRECAST CONCRETE

NOT TO SCALE



NOTE: DROP MH SHALL BE CONSTRUCTED WHERE DISTANCE BETWEEN INVERTS EXCEEDS 2'-0"

MANHOLE TYPE B DROP MH NOT TO SCALE

AECOM

PROJEC

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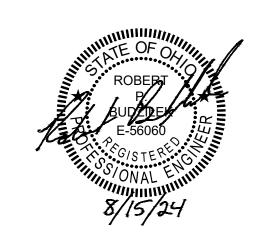
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