

VILLAGE OF NEWCOMERSTOWN

COLLEGE STREET SANITARY SEWER EXTENSION

VILLAGE OF NEWCOMERSTOWN, TUSCARAWAS COUNTY, OHIO 2024



LOCATION MAP

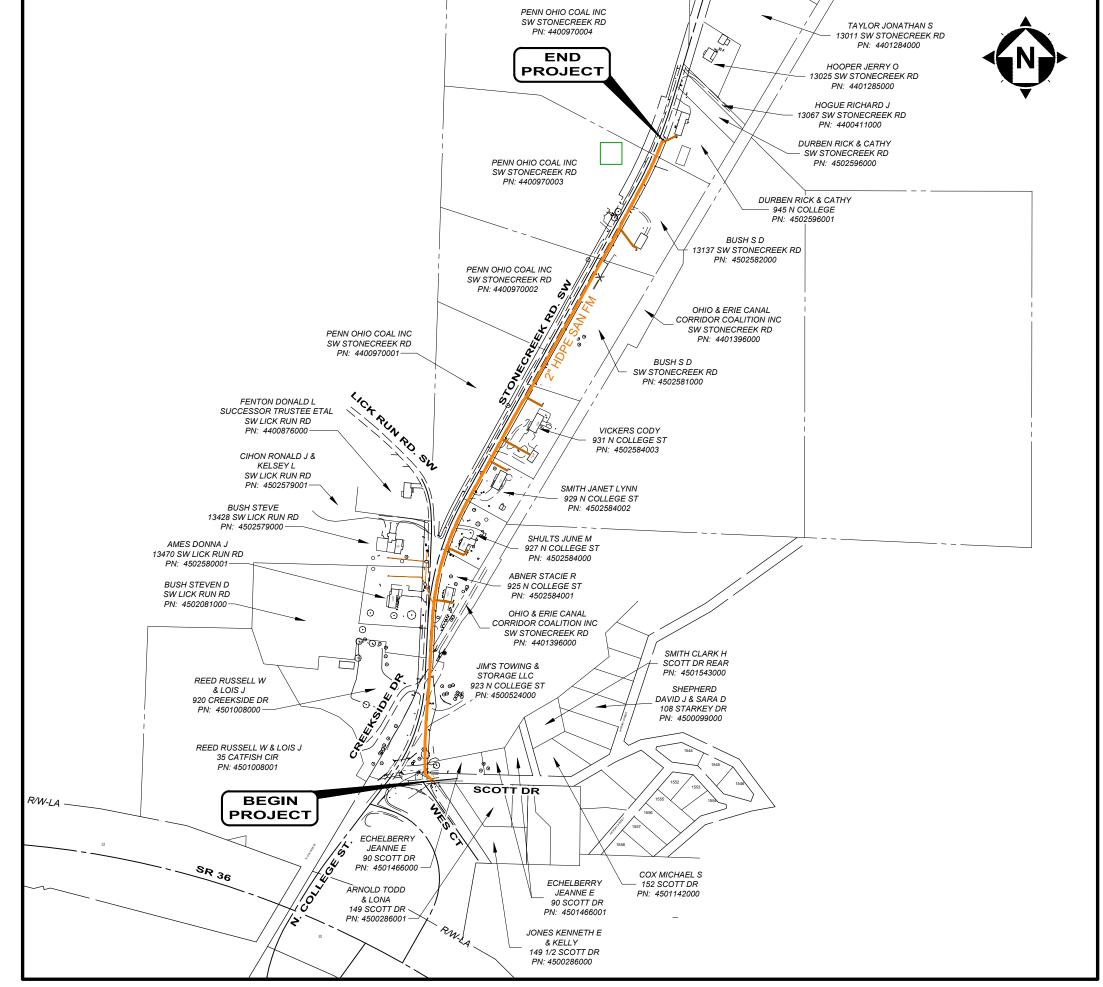
ENGINEER	OWNER
CT CONSULTANTS 7965 N. HIGH STREET, SUITE 340 COLUMBUS, OHIO 43235 OFFICE: 614-885-1700 CONTACT: BOB MCNUTT, S.P.E. EMAIL: BMCNUTT@CTCONSULTANTS.COM	VILLAGE OF NEWCOMERSTOWN 777 EAST STATE STREET NEWCOMERSTOWN, OHIO 43832 (740) 498-7330

	BENCH MARKS (NAVD 1988)	
NO.	DESCRIPTION	ELEV
BM1	TBM SET, "CHISLED SQUARE" SET ON SE BRIDGE ABUTMENT (PNT NO. 2789) NORTHING: 226598.1073 EASTING: 2219436.4370	810.13
BM2	C/L SW BOLT, S. END OF GUARDRAIL (PNT NO. 2196) NORTHING: 228191.5313 EASTING: 2219971.6510	831.41
ВМ3	TBM SET, MAG NAIL SET ON POWER POLE #238-135 (PNT NO. 2742) NORTHING: 222461.5078 EASTING: 2220601.8120	839.36

NOTTHING. 222-01.3070 EACTING. 2220001.0120	000.00
SOURCE OF TOPOGRAPHY: TOPOGRAPHIC SURVEY WAS PERFORMED BY CT CO	SULTANTS
DECEMBER 2022, FOR VILLAGE OF NEWCOMERSTOWN, TUSCARAWAS COUNTY, OF	IIO.

UTILITY COMPANIES NOTE: UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD MARKINGS (BY OTHERS) AND AVAILABLE RECORDS, AND AS SUCH, SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY - CALL BEFORE YOU DIG! COUNTY: VILLAGE OF NEWCOMERSTOWN VILLAGE OF NEWCOMERSTOWN TUSCARAWAS COUNTY ENGINEER 777 EAST STATE STREET 777 EAST STATE STREET 832 FRONT AVENUE SW NEWCOMERSTOWN, OHIO 43832 NEW PHILADELPHIA, OHIO 44663 NEWCOMERSTOWN, OHIO 43832 (740) 498-7330 (740) 498-7330 (330) 339-6648 **ELECTRIC:** VILLAGE: AMERICAN ELECTRIC POWER COLUMBIA GAS OF OHIO VILLAGE OF NEWCOMERSTOWN ATTN: BRENT GATES ATTN: ROB CALDWELL 777 EAST STATE STREET NEWCOMERSTOWN, OHIO 43832 700 MORRISON ROAD 3350 JOHNNY APPLESEED CT. GAHANNA, OHIO 43230 COLUMBUS, OHIO 43231 (740) 498-7330 (614) 883-6802 (614) 818-2104 **COMMUNICATION:** COMMUNICATION: AT&T OHIO **CHARTER COMM** ATTN: JON NIXON ATTN: SAM LUTZ 955 36TH SE GRAND RAPIDS, MI 3760 INTERCHANGE ROAD COLUMBUS, OHIO 43204

(614) 348-2966



LOCATION MAP SCALE: 1" = 400'



(NON MEMBERS MUST BE CALLED DIRECTLY)

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VILLAGE OF NEWCOMERSTOWN

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES EXTENSION OF SANITARY SEWER SERVICE TO

REPLACE HOME SEPTIC TREATMENT SYSTEMS (HSTS) UTILIZING LOW PRESSURE SEWER SYSTEM (LPSS) USING INDIVIDUAL GRINDER PUMPS.

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

11/21/2024

PROJECT NO. 220865 DISCIPLINE CIVIL SHEET NAME **COVR-SHT** 10

(616) 881-2268

	ISSUED FOR: PRELIMINARY	PRELIMINARY	ON	REVISION
SION	ISSUE DATE:	9/9/2024		
OUNTY, OHIO	SCALE:	AS SHOWN		
	DESIGNED BY:	BKU		
	DRAWN BY:	BKU		
	CHECKED BX:	Mid		

GENERAL NOTES:

- 1. A PRE-CONSTRUCTION MEETING SHALL BE HELD AT THE VILLAGE HALL AT LEAST 15 CALENDAR DAYS BEFORE THE START OF CONSTRUCTION. REPRESENTATIVES OF THE OWNER, DESIGN ENGINEER, VILLAGE UTILITY AND ADMINISTRATION STAFF, AND THE CONTRACTOR SHALL BE IN ATTENDANCE. A SCHEDULE OF THE SEQUENCE OF EVENTS DURING CONSTRUCTION MUST BE SUBMITTED FOR REVIEW AT LEAST (7) SEVEN DAYS PRIOR TO THIS MEETING.
- 2. THE VILLAGE OF NEWCOMERSTOWN DETAILED SPECIFICATIONS TOGETHER WITH THE LATEST EDITION OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), INCLUDING ALL SUPPLEMENTS THERETO, SHALL GOVERN ALL MATERIAL AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN IN THE PLANS UNLESS OTHERWISE NOTED.
- 3. ALL WORK SHALL BE COMPLETELY ACCEPTABLE TO THE VILLAGE OF NEWCOMERSTOWN OFFICIALS. NO WORK SHALL COMMENCE UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE VILLAGE OF NEWCOMERSTOWN FOR INSPECTION. NECESSARY LINE AND GRADE STAKING TO BE PROVIDED BY THE CONTRACTOR.
- 4. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE VILLAGE OF NEWCOMERSTOWN AT LEAST (7) SEVEN WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 5. THE CONTRACTOR SHALL PROVIDE A VIDEO RECORD OF THE SITE TO THE VILLAGE ENGINEER PRIOR TO THE START OF CONSTRUCTION. EMPHASIS OF THE VIDEO SHOULD BE ON EXISTING DEVELOPED AREAS CONTIGUOUS WITH THE PROJECT WORK AREAS.
- 6. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AN UP-TO-DATE COPY OF THE APPROVED PLANS. FOR ACCEPTANCE OF WORK, THE VILLAGE REQUIRES A SIGNED COMPLETE SET OF ALL APPROVED PLANS.
- 7. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS FOR THE PROPER EXECUTION OF THE IMPROVEMENTS SHOWN ON THE PLANS.
- 8. APPROVAL OF THESE PLANS SHALL BE IN ACCORDANCE WITH THE VILLAGE OF NEWCOMERSTOWN.
- 9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE AND VERIFY THE EXTENT OF WORK TO BE PERFORMED PRIOR TO MAKING THEIR BID. THIS IS ESPECIALLY TRUE WITH REGARD TO ANY REMOVAL ITEMS.
- 10. THE CONTRACTOR AND SUBCONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE VILLAGE OF NEWCOMERSTOWN.
- 11. THE CONTRACTOR IS SPECIFICALLY THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- 12. ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO THE CURB SUBDRAIN OR TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.
- 13. INGRESS AND EGRESS SHALL BE MAINTAINED TO PUBLIC AND PRIVATE PROPERTY.
- 14. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT AT THEIR OWN EXPENSE. SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE VILLAGE OF NEWCOMERSTOWN.
- 15. ALL SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES THAT ARE TO REMAIN INTACT WHICH ARE DISTURBED OR DAMAGED DURING WORK UNDER THE CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SANITARY SEWER ITEMS.
- 16. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO ORIGINAL CONDITION AS NEAR AS PRACTICABLE UPON COMPLETION OF THIS WORK. ANY DAMAGE TO OTHER UTILITIES DURING THIS WORK BY THE SUBCONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
- 17. CARE SHALL BE EXERCISED WHEN WORKING THE AREA AROUND EXISTING TREES AND SHRUBS. TREES MAY BE REMOVED WITHIN THE PERMANENT AND TEMPORARY EASEMENTS ONLY. EFFORTS SHALL BE MADE TO PRESERVE TREES 24-INCHES CALIPER OR LARGER. NO TREES SHALL BE DAMAGED OR DISTURBED OUTSIDE OF THE EASEMENTS OR WHERE MARKED ON THE PLANS AS "DO NOT DISTURB".
- 18. THE COST OF DEWATERING OR ROCK EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR SANITARY PIPE. THE BIDDER SHALL DETERMINE IF ANY DEWATERING OR ROCK EXCAVATION WILL BE REQUIRED AND ADJUST THEIR BIDS ACCORDINGLY.
- 19. PAVEMENT CUTS FOR UTILITY LINE INSTALLATIONS SHALL BE SUBJECT TO THE BACKFILL REQUIREMENTS OF ODOT CMS ITEM. PAVEMENT SHALL BE PLACED TO MATCH EXISTING SECTION OR 10 INCHES OF 448 ASPHALT, WHICHEVER IS GREATER. DEEP TRENCHES MAY NOT BE PARTIALLY FILLED WITH LARGE SIZE AGGREGATE.
- 20. THE FLOW IN ALL SEWERS, DRAINS, AND SANITARY SEWER COURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND WHENEVER SUCH SANITARY SEWER COURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF WORK SHALL BE RESTORED OR REPAIRS AS APPROVED BY THE ENGINEER WITHOUT EXPENSE TO THE VILLAGE OF NEWCOMERSTOWN.
- 21. ALL ITEMS CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME AND SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.
- 22. EROSION CONTROL MEASURES ARE TO BE INSTALLED PER PLAN OR AS SUCH DIRECTED BY THE VILLAGE AND ARE TO BE MAINTAINED UNTIL SUCH TIME THAT THEY ARE NO LONGER REQUIRED.
- 23. ALL AREAS IN THE RIGHT-OF-WAY ARE TO BE GRADED AND SEEDED AS SOON AS WORK IN THAT AREA IS COMPLETE.
- 24. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION AND MAINTENANCE OF A PORTABLE TOILET ON THE SITE DURING ALL PHASES OF CONSTRUCTION.
- 25. THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR ALL COMPACTION AS WELL AS ASPHALT AND CONCRETE TESTING. TESTING IS TO BE PERFORMED BY A REGISTERED CONTRACTOR AS SPECIFIED BY THE VILLAGE ENGINEER.
- 26. THE VILLAGE ENGINEER RESERVES THE RIGHT TO DIRECT PROJECT SPECIFIC CHANGES TO ANY VILLAGE CONSTRUCTION NOTE AND SPECIFICATION.
- 27. NO CONSTRUCTION TRAFFIC IS PERMITTED ON STREETS ACCESSING NEIGHBORHOOD SUBDIVISIONS. NO TRACKED EQUIPMENT IS PERMITTED ON EXISTING STREET PAVEMENT.
- 28. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL OTHER FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. THE CONTRACTOR AND SUBCONTRACTORS SHALL INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS ASSOCIATED WITH THIS WORK.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS NECESSARY TO PERFORM ALL WORK WITHIN AND/OR ADJACENT TO THE RIGHT-OF-WAY OF ALL ROADS AND HIGHWAYS. ALL FEES, BONDS, INSURANCE, AND OTHER COSTS REQUIRED BY THE OWNER OF SAID ROADS AND HIGHWAYS SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE PRICE BID FOR THE WORK.
- 30. THE CONTRACTOR SHALL PROVIDE THE VILLAGE AND ENGINEER WITH A 24 HOUR TELEPHONE NUMBER TO READILY CONTACT A RESPONSIBLE PARTY IN THE CASE OF AN EMERGENCY. THE COST AND/OR DAMAGES INCURRED RELATED TO WORK PERFORMED BY THE CONTRACTOR IN SUCH EMERGENCIES ARE THE CONTRACTORS RESPONSIBILITY AND NOT THE AFFECTED ENTITY.
- 31. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR BY REASON OF COMPLIANCE WITH ANY OF THE REQUIREMENTS INDICATED IN THE PLANS, BUT PAYMENT SHALL BE DEEMED TO BE INCLUDED AMONG THE SEVERAL ITEMS, AS BID UPON, UNLESS OTHERWISE SPECIFICALLY PROVIDED.
- 32. IN ADDITION TO THE DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHT-OF-WAYS INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS OF ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY. THE COST OF OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE TOTAL CONTRACT PRICE BID.

- 33. THE DESIGN SHOWN ON THESE DRAWINGS IS BASED UPON A FIELD SURVEY AND EXISTING RECORDS.
- 34. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND VIDEO OF THE PROJECT SITE PER THE SPECIFICATIONS. A DIGITAL COPY OF ALL MEDIA SHALL BE SUBMITTED TO THE VILLAGE ENGINEER FOR REVIEW AND APPROVAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PRE-CONSTRUCTION VIDEOTAPING.
- 35. ALL CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR. THIS WILL CONSIST OF ALIGNMENT AND GRADE STAKES SET AND MARKED IN THE FIELD. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY REPLACEMENT STAKES NECESSARY, REMOVED OR DESTROYED BY THEIR PERSONNEL OR EQUIPMENT.
- 36. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS THROUGHOUT THE PROJECT AND SHALL BRING THE CURRENT SET OF AS-BUILT DRAWINGS TO EACH PROGRESS MEETING FOR REVIEW.
- 37. THE WORK OF THIS CONTRACT SHALL NOT INTERFERE WITH MAINTAINING CONTINUOUS FLOW IN THE EXISTING SANITARY SEWER, STORM SEWER, WATERLINES, POWER, TELEPHONE, CABLE TV, GAS, OR ANY OTHER SYSTEM THAT MAY BE ENCOUNTERED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL UTILITY POLES AND RELOCATE ANY UTILITY THAT IMPEDES CONSTRUCTION. NOTHING SHALL BE DONE BY ANY OTHER CONTRACTOR FOR THIS PROJECT WHICH WILL IN ANY WAY REDUCE THE QUALITY OR QUANTITY LEVEL OF SUCH OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER (1) ONE WEEK PRIOR TO MODIFYING ANY FACILITIES. NO PAYMENT WILL BE MADE FOR ANY UTILITY MAINTENANCE UNLESS SPECIFICALLY NOTED AS A BID ITEM IN THE PROPOSAL.
- 38. AT ALL UTILITY CROSSINGS, THE BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL BETWEEN THE DEEPER AND SHALLOWER PIPE UNLESS CONTROLLED DENSITY FILL OR CONCRETE IS SPECIFIED OTHERWISE IN THE DRAWINGS.
- 39. MANHOLES SHALL BE INSTALLED WITH ADJUSTING RINGS SO THAT THE TOP OF THE CASTING IS AT EXISTING GRADE. THE CASTING SHALL NOT PROTRUDE SO AS TO INTERFERE WITH MOWING.
- 40. BACKFILL: EARTH WILL NOT BE MOUNDED OVER THE TRENCH IN ANTICIPATION OF SETTLEMENT. THE CONTRACTOR SHALL COMPACT THE TRENCH AND ESTABLISH THE ORIGINAL DITCH GRADE AS WORK PROGRESSES. DRAINAGE MUST BE RESTORED AS QUICKLY AS PRACTICAL. IF EROSION OF THE DITCH LINE CAUSES SILTING OF EXISTING DRAINAGE LINES, THE CONTRACTOR SHALL CLEAN AS NECESSARY. BACKFILL AND CLEANUP OPERATIONS SHALL BE KEPT WITHIN 300 FEET OF PIPE LAYING OPERATIONS DAILY. CARE SHALL BE TAKEN TO INSURE THAT NO DITCH LINE ELEVATIONS ARE RAISED DUE TO EXCESS BACKFILL. COMPACTION IS TO BE CARRIED OUT WITH THE NECESSARY EQUIPMENT TO ACHIEVE THE COMPACTION REQUIREMENT OF ODOT CMS ITEM 304.05. THE CONTRACTOR SHALL MAINTAIN DRIVEWAYS ACCESSIBLE AT ALL TIMES BY USING PLATES OR COMPACTED GRANULAR FILL.
- 41. ROAD MAINTENANCE AREA: UNLESS PREEXISTING BEFORE CONSTRUCTION OPERATIONS, THE SURFACE WITHIN A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT SHALL BE MAINTAINED OBSTACLE FREE, BY THE CONTRACTOR, FOR POSITIVE DRAINAGE AND/OR SNOW PLOW/MAINTENANCE OF ROAD PAVEMENT.
- 42. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 43. DISTURBANCE TO THIS SITE IS COVERED BY OEPA GENERAL PERMIT OHC000005 AND THE NPDES PERMIT.
- 44. CONTRACTOR TO FIELD VERIFY LOCATION OF WELL AND MARK FOR AS-BUILTS AS WELL AS DOCUMENT CROSSING ANY PRIVATE WATER LINES. IF WELL LOCATED WITHIN 50 FT OF GRINDER PUMP CONTRACTOR TO VERIFY PLACEMENT WITH ENGINEER.

PRESERVATION NOTES:

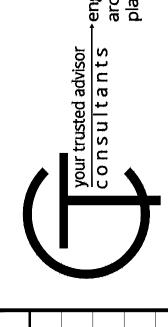
- 1. ALL DRAIN TILE, FIELD TILE, AND STORM SEWERS DAMAGED, DISTURBED, OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. REPLACED DRAIN TILE SHALL BE LAID PER THE STORM SEWER DETAIL. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS UNIT PRICE BID ITEMS. ALL NECESSARY REPLACEMENT OF EXISTING PIPES IS TO BE PERFORMED AS SOON AS POSSIBLE, PRIOR TO BACKFILLING THE TRENCH.
- 2. CULVERTS, END SECTIONS, AND HEADWALLS DISTURBED OR DESTROYED DURING THE PERFORMANCE OF THE WORK SHALL BE RESTORED BY THE CONTRACTOR TO THE LOCATIONS AND GRADES EXISTING PRIOR TO CONSTRUCTION. THE COST OF THIS RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELEVANT ITEMS OF THE WORK.
- 3. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, AND REFERENCE POINTS AND IN CASE OF WILLFUL OR CARELESS DESTRUCTION, THEY SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY UNNECESSARY LOSS OR DISTURBANCE. THE CONTRACTOR SHALL ALSO RESTORE ALL DISTURBED AREAS, FENCES, AND DITCHES TO THEIR ORIGINAL CONDITION.
- 4. ANY PROPERTY CORNERS, PERMANENT SURVEY MARKERS, OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REESTABLISHED BY THE CONTRACTOR USING A SURVEYOR REGISTERED BY THE OHIO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THROUGH ENGINEER'S OFFICE. COST TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS UNIT PRICE BID ITEMS. ALL CONSTRUCTION STAKING WILL BE PROVIDED BY THE CONTRACTOR. THIS WILL CONSIST OF ALIGNMENT AND GRADE STAKES SET AND MARKED IN THE FIELD. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY REPLACEMENT STAKES NECESSARY, REMOVED, OR DESTROYED BY THEIR PERSONNEL OR EQUIPMENT.
- 5. ALL SIGNS, FENCES, SHRUBS, DRAINAGE STRUCTURES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING THE WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR, OR REPLACED IN LIKE KIND AND QUALITY UNLESS OTHERWISE NOTED ON THE PLANS. EXISTING GRATES SHALL BE SALVAGED AND EXISTING CATCH BASINS OR INLETS SHALL BE REBUILT IN KIND MATERIAL. ALL EXISTING DRAINAGE DITCHES SHALL BE RESTORED TO EXISTING CONDITIONS AND GRADE. IF GUARDRAIL IS DISTURBED, THE CONTRACTOR SHALL PROVIDE NEW POSTS IN ACCORDANCE WITH THE CURRENT ODOT CMS ITEM 606.02, UNLESS OTHERWISE PROVIDED IN THE CONTRACT. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS UNIT PRICE BID ITEMS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA. PRIOR TO DISTURBING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE POSTAL AUTHORITIES AND SHALL TEMPORARILY RELOCATE MAILBOXES WITH THE REQUIREMENTS THEREOF. THE CONTRACTOR SHALL RESTORE MAILBOXES TO THEIR ORIGINAL CONDITION AND LOCATION SUBSEQUENT TO CONSTRUCTION.
- 7. THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND THOSE AREAS DEFINED AS TEMPORARY CONSTRUCTION EASEMENTS, PERMANENT UTILITY EASEMENTS, AND ACCESS EASEMENTS, PER WORK AGREEMENT. FOLLOWING THE CONSTRUCTION ACTIVITIES IMPACTING ANY OF THE R/W, THE R/W SHALL BE RESTORED BACK TO MATCH THE ORIGINAL CONDITION.
- 8. THE LENGTH OF THE TRENCH OPENED, OR THE AREA OF THE SURFACE DISTURBED AT ANY TIME SHALL BE LIMITED WITH REGARD TO BOTH EXPEDITIOUS CONSTRUCTION AND CONVENIENCE OF THE PUBLIC. NEW TRENCHES SHALL NOT BE OPENED WHEN OPEN TRENCHES NEED BACKFILLING OR WHEN LABOR IS NEEDED TO RESTORE THE SURFACE OF THE STREETS TO A SAFE AND PROPER CONDITION. IN NO CASE SHALL MORE THAN 50 FEET OF TRENCH BE OPENED IN ADVANCE OF THE COMPLETED WORK. IF ATTRIBUTABLE TO THE CONTRACTOR AND THE TRENCH WILL REMAIN OPEN FOR AN UNREASONABLE LENGTH OF TIME IN ADVANCE OF INSTALLING THE POPE OR OTHER ITEMS AS DETERMINED BY THE OWNER, THEN THE CONTRACTOR SHALL REFILL THE EXCAVATION, OR ANY PART THEREOF, UNTIL THEY ARE READY TO PROCEED WITH THE CONSTRUCTION OF THE WORK. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 9. ALL EXCAVATED MATERIAL SHALL BE WORKED IN SUCH A MANNER THAT WILL NOT ENDANGER THE WORK NOR OBSTRUCT WALKS AND DRIVEWAYS, MANHOLE COVERS, INLETS, FIRE AND POLICE CALL BOXES. OTHER UTILITIES SHALL BE UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES. GUTTERS SHALL BE KEPT CLEAR OR OTHER SATISFACTORY PROVISIONS MUST BE MADE TO KEEP THEM UNOBSTRUCTED,
- 10. OPEN EXCAVATIONS: ALL EXCAVATIONS SHALL BE MAINTAINED AS SAFE AS POSSIBLE BY THE CONTRACTOR AT ALL TIMES AND BACKFILLED AS SOON AS PRACTICAL. OPEN EXCAVATIONS AFTER WORK HOURS REQUIRE TRAFFIC PLATES, TEMPORARY PAVEMENT, AND/OR LIGHTED BARRICADES AND CONSTRUCTION FENCE.
- 11. THE TRACKING OF MUD, DIRT, OR DEBRIS, OR SPILLAGE OF THE SAME, UPON STATE ROUTES, COUNTY ROADS, TOWNSHIP ROADS, RESIDENTIAL AND COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE

SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. FAILURE TO REMOVE SAID MUD, DIRT, OR DEBRIS, OR SPILLAGE MAY RESULT IN THE OWNER PROVIDING THAT SERVICE OR WITHHOLDINGS FROM MONEYS WHICH MAY BECOME DUE TO THE CONTRACTOR

- 12. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO PUBLIC AND PRIVATE PROPERTY.
- 13. ROADWAY STORM DRAINAGE: I.E. DITCHES, PIPES, CULVERTS SHALL NOT BE OBSTRUCTED DURING SEWER CONSTRUCTION. TEMPORARY EROSION AND SEDIMENTATION MEASURES PER ODOT CMS 670.02 ARE TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR TO PREVENT SILTATION OF DRAINAGE DITCHES, SEWERS, CULVERTS, ETC.
- 14. ALL TREES, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PRESERVED UNLESS APPROVAL TO REMOVE IS GIVEN BY THE OWNER OR THEIR REMOVAL HAS BEEN DESIGNATED ON THE PLANS. THE CONTRACTOR SHALL USE SPECIAL PRECAUTIONS TO AVOID DAMAGE TO ALL OTHER TREES. WHEN REQUIRED, LIMBS SHALL BE CAREFULLY AND NEATLY PRUNED AND PAINTED WITH A SEALING COMPOUND.
- 15. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.

SANITARY SEWER NOTES:

- . ALL SANITARY SEWER PIPE AND FITTINGS AND METHODS OF CONSTRUCTION AND WORKMANSHIP FOR SANITARY SEWER LINES AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE VILLAGE OF NEWCOMERSTOWN, CURRENT ON THE DATE OF THE CONTRACT, UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.
- 2. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS NECESSARY TO COORDINATE AND PROVIDE FULL-TIME INSPECTION SERVICE BY THE VILLAGE FOR THE PROPOSED WORK.
- 3. IT IS THE POLICY OF THE VILLAGE OF NEWCOMERSTOWN THAT THE DESIGN OF THE SANITARY SEWER COLLECTION SYSTEM BE SUCH THAT INFLOW AND INFILTRATION OF NON-POLLUTED WATERS IS MINIMIZED. ALL SANITARY LINES AND LATERALS ARE TO BE DESIGNED AND INSTALLED SO AS TO PROVIDE BASEMENT SANITARY SERVICES, UNLESS OTHERWISE NOTED.
- 4. MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATERLINES AS WELL AS SANITARY AND STORM SEWERS. PIPES SHALL BE CONCRETE ENCASED WHERE THE REQUIRED SEWER-WATERLINE SEPARATION CANNOT BE MAINTAINED.
- 5. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER SANITARY SEWER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED ON THIS PROJECT.
- 6. ALL SANITARY SEWER MANHOLES MUST BE PRECAST CONCRETE AND MEET THE VILLAGE OF COLUMBUS SPECIFICATIONS.
- 7. MANHOLES SHALL BE SET ON A FOUNDATION OF #57 STONE. BACKFILL SHALL CONSIST OF EXCAVATED EARTH MATERIAL, FINELY DIVIDED AND FREE OF STONES 2 INCHES OR GREATER IN DIMENSION TO AT LEAST 1 FOOT ABOVE PIPE TOP.
- 8. SANITARY SEWER LIDS ARE TO BE EAST JORDAN TYPE 1660 (OR APPROVED EQUAL) AND EMBOSSED "SANITARY SEWER".
- 9. MANHOLES SHALL BE BUILT OR ADJUSTED SO THAT THE TOPS CONFORM TO THE ELEVATIONS SHOWN ON THESE PLANS. PRIOR TO AND AFTER CONSTRUCTION, THE CONTRACTOR SHALL VERIFY MANHOLE CONSTRUCTION AND TOP OF CASTING ELEVATION. MANHOLE HEIGHT ADJUSTMENTS SHALL BE BY PRECAST CONCRETE ADJUSTMENT RINGS. PRECAST CONCRETE RISER RINGS ARE TO BE USED FOR ALL FINAL ADJUSTMENT OF MANHOLES.
- 10. SANITARY SEWER MANHOLE TOP OF CASTING SHALL BE SET AT 1-1/2" ABOVE FINISHED GROUND GRADE, WHEN PLACED OUTSIDE OF PAVED AREAS.
- 11. THE CONTRACTOR'S SPECIFIC ATTENTION IS DIRECTED TO THE REQUIREMENTS OF EITHER INFILTRATION OR EXFILTRATION TEST AS SPECIFIED BY THE VILLAGE OF NEWCOMERSTOWN. LEAKAGE THROUGH THE JOINTS OF THE SEWER SHALL NOT EXCEED THE FOLLOWING ALLOWABLE LIMITS: 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT FOR SHORTER LENGTHS AND SHORTER PERIODS OF TIME. ALL SANITARY SEWER AND SERVICES SHALL BE TESTED. ALL SANITARY SEWERS SHALL BE SUBJECT TO AND PASS THE INFILTRATION OR EXFILTRATION TEST PRIOR TO ACCEPTANCE. AN AIR TEST IS ACCEPTABLE TO THE VILLAGE OF NEWCOMERSTOWN. THIS AIR TEST SHALL FOLLOW STANDARD ITEM 901.20.
- 12. THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE SHALL BE SDR 25 OR ASTM D3034 POLYVINYL CHLORIDE (PVC) SEWER PIPE WITH AN ASTM D1784 CELL CLASSIFICATION OF 12454 B OR 12454 C, UNLESS OTHERWISE SHOWN ON THESE PLANS.
- 13. ALL PVC PIPE SHALL BE DEFLECTION TESTED 30 DAYS OR MORE AFTER THE TRENCH HAS BEEN BACKFILLED TO FINISHED GRADE. A RIGID MANDREL SHALL BE USED FOR THE TESTING. NO MECHANICAL PULLING DEVICES SHALL BE USED. PIPE DEFLECTION SHALL NOT EXCEED. PIPE EXCEEDING THE ALLOWED DEFLECTION SHALL BE LOCATED, EXCAVATED, REPLACED AND RETESTED AT THE SOLE EXPENSE OF THE CONTRACTOR. VILLAGE ENGINEER OR HIS REPRESENTATIVE MUST WITNESS TEST.
- 14. PIPE BEDDING TO BE CRUSHED # 57 AGGREGATE. ALL PIPES SHALL BE LAID WITH STONE OR GRAVEL BACKING AS SHOWN IN THE DETAILS.
- 15. ALL SANITARY SEWER PIPE TRENCHES IN PAVEMENT SHALL BE IN ACCORDANCE WITH ODOT ITEM 901. ALL SANITARY SEWER PIPE IN TRENCHES OUTSIDE OF PAVEMENT SHALL BE IN ACCORDANCE WITH STANDARD DRAWINGS (SEWER PIPE INSTALLATION).
- 16. WHERE THE SANITARY AND STORM SEWER CROSS, THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER AND SANITARY LINE WITH COMPACTED GRANULAR MATERIAL, ITEM 304, 10 LINEAR FEET CENTERED ON THE STORM SEWER OR SANITARY SEWER LINE. THE COST OF THIS WORK IS TO BE INCLUDED IN THE BID PRICE FOR THE VARIOUS SEWER ITEMS.
- 17. SEWER TRENCHES ARE TO BE DEWATERED TO 2" BELOW THE BELL OF PIPE PRIOR TO INSTALLATION.
- 18. TEMPORARY MECHANICAL BULKHEADS SHALL BE PLACED AT THE DOWNSTREAM CONNECTION POINT, AND SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE VILLAGE ENGINEER.
- 19. ALL SANITARY LINES SHALL BE CLEANED OF DEBRIS (LEAVES, DIRT, STONE, ETC.) PRIOR TO THE VILLAGE TAKING OWNERSHIP.
- 20. ALL SANITARY TRUNK LINES ARE TO BE CAMERA/VIDEO TAPED PRIOR TO THE VILLAGE OF NEWCOMERSTOWN'S FINAL ACCEPTANCE. A DIGITAL COPY OF THE MEDIA, WITH A SUMMARY REPORT IS TO BE PROVIDED TO THE VILLAGE ENGINEER.



	COLLEGE STREET	ISSUED FOR: PRELIMINARY	O _N	REVISION	DATE
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		DESIGNED BY: BKU			
	GENERAL NOTES	DRAWN BY: BKU			
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TUSCARAWAS COUNTY WATER RESOURCES SANITARY SEWER GENERAL NOTES:

GENERAL:

- THE CONTRACTOR SHOULD BE AWARE THAT THE INSTALLATION OF THE SANITARY SEWER MAY REQUIRE THE REMOVAL AND REPLACEMENT OF PAVEMENT, DRAINAGE PIPE, AND GRANULAR BACKFILL. THE LABOR AND MATERIAL COSTS ARE TO BE INCLUDED IN THE UNIT PRICES BID UNDER ITEM 901. SEE SPEC SECTIONS 901.03, 901.08 AND 901.09.
- 2. CONTRACTOR SHALL RESTORE MAILBOXES, PAPERBOXES AND POST AFTER INSTALLATION OF SEWER IS
- PRICES BID PER FOOT FOR ALL PIPE IS COMPLETE IN PLACE REGARDLESS OF SOIL OR ROCK CONDITIONS.
- EXISTING UTILITIES SHOWN ARE FROM BEST AVAILABLE RECORDS AND FIELD INVESTIGATIONS, AND ARE NOT NECESSARILY COMPLETE OR EXACT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION AND SHALL MAKE ADJUSTMENTS IN ELEVATIONS TO PROVIDE SUFFICIENT CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES FOR TRADITIONAL AND TRENCHLESS CONSTRUCTION METHODS. UTILITY SERVICES BROKEN OR DAMAGED SHALL BE REPAIRED AT ONCE TO AVOID INCONVENIENCE TO CUSTOMERS. STORM SEWERS SHALL NOT BE INTERRUPTED OVERNIGHT. THE CONTRACTOR SHALL CALL THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) THREE WORKING DAYS PRIOR TO WORK EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS.
- 5. THE SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS OF THE TUSCARAWAS COUNTY WATER RESOURCES DEPARTMENT TOGETHER WITH THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED HEREIN, IN FORCE AT THE TIME OF CONTRACT, SHALL GOVERN THIS PROJECT. SANITARY SEWER CONNECTIONS SHALL BE GOVERNED BY TUSCARAWAS COUNTY RULES AND REGULATIONS AND MUST BE INSPECTED BY THE TUSCARAWAS COUNTY WATER RESOURCES DEPARTMENT (TCWR) OR AUTHORIZED REPRESENTATIVE. TWENTY-FOUR HOURS ADVANCE NOTICE OF WORK SHALL BE GIVEN FOR THE SCHEDULING OF AN INSPECTOR.
- THE CONTRACTOR SHALL BASE HIS PROJECTED WORK SCHEDULES UPON THE FOLLOWING CRITERIA:
 - A. CONSTRUCTION HOURS SHALL BE FROM 8:00 AM TO 4:00 PM. MONDAY THROUGH FRIDAY ONLY! B. THE FOLLOWING GOVERNMENT HOLIDAYS SHALL BE OBSERVED BY THE CONTRACTOR:
 - **NEW YEARS DAY**
 - MARTIN LUTHER KING DAY
 - PRESIDENT'S DAY MEMORIAL DAY
 - JUNETEETH
 - INDEPENDENCE DAY
 - LABOR DAY
 - COLUMBUS DAY VETERAN'S DAY
 - 10. THANKSGIVING DAY
 - 11. THANKSGIVING DAY AFTER 12. CHRISTMAS DAY

SOIL BORES:

NO SOIL BORINGS WERE TAKEN AS PART OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL TAKE ALL SOIL BORINGS HE DEEMS NECESSARY. AT LEAST 48 HOUR NOTICE MUST BE GIVEN TO THE OWNER, AND THE LOCATION OF ALL SOIL BORINGS ARE SUBJECT TO THE APPROVAL OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM DIGGING SOIL BORES AND HE SHALL RESTORE ALL PROPERTY TO A CERTAIN SIMILAR OR EQUAL TO THE CONDITION THAT EXISTING BEFORE SUCH DIGGING WAS DONE. THE CONTRACTOR SHALL NOTE ALL DEWATERING, SHEETING, ETC. WHICH SHALL BE REQUIRED FOR CONSTRUCTION DUE TO SOIL AND WATER CONDITIONS. COST FOR DEWATERING, SHEETING, ETC., SHALL BE INCLUDED IN PRICE BID PER LINEAR FOOT OF RESPECTIVE ITEMS. ANY FOUNDATION SLAG REQUIRED SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF RESPECTIVE ITEMS.

ROAD PERMITS:

APPLICABLE ROAD PERMITS HAVE BEEN INCLUDED IN THE SPECIAL CONSTRUCTION REQUIREMENTS AND SUPPLEMENTAL SPECIFICATIONS FOR THIS PROJECT. ANY COST FOR LABOR, EQUIPMENT, MATERIAL, ETC., TO COMPLY WITH THESE PERMITS SHALL BE INCLUDED IN THE PRICES BID. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER. THE CONTRACTOR SHALL BE SURE THAT ALL PERMITS REQUIRED TO OPEN CUT ROADS HAVE BEEN OBTAINED FROM THE GOVERNING LOCAL, COUNTY OR STATE DEPARTMENT PRIOR TO COMMENCEMENT OF WORK.

SANITARY SEWERS:

- 1. THE COST OF PLUMBING, REROUTING AND DIVERTING ALL WATER AND SEWAGE DURING CONSTRUCTION SHALL BE INCLUDED FOR PAYMENT IN THE VARIOUS SEWER PAY ITEMS.
- GRAVITY SEWERS SHALL HAVE FLEXIBLE ADAPTERS AT CONNECTIONS OF DISSIMILAR PIPE-CONCRETE COLLARS ARE NOT ACCEPTABLE.
- 3. ALL CONSTRUCTION SHALL CONFORM TO THE DEPT. OF LABOR, BUREAU OF LABOR STANDARDS SAFETY AND HEALTH REGULATIONS FOR THE CONSTRUCTION AND THE CONTRACT WORK HOURS AND SAFETY ACT. (CHAPTER XVII TITLE C&R, PART 1926 AND ALL ADDITIONS AND REVISIONS).
- 4. ALL WATER AND SANITARY OR STORM SEWER CROSSINGS SHALL HAVE AN EIGHTEEN INCH (18") MINIMUM VERTICAL SEPARATION OUTSIDE DIAMETER (O.D.) TO (O.D.) ALL WATER AND SANITARY OR STORM SEWER SHALL HAVE A TEN FOOT (10') MINIMUM HORIZONTAL SEPARATION (O.D.) TO (O.D.). ALL WATER LINES CROSSING OTHER UTILITIES SHALL HAVE A TWELVE INCH (12") MINIMUM VERTICAL SEPARATION (O.D.) TO (O.D.) AND FOUR FOOT (4') MINIMUM HORIZONTAL CLEARANCE SEPARATION (O.D.) TO (O.D.).
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED.
- NO BRICK MANHOLE CONSTRUCTION WILL BE PERMITTED. MANHOLE CASTING AND COVER TO BE INDENTED SOLID TOP DESIGN WITH HIDDEN PICKHOLES. ALL LIDS TO BE LABELED "SANITARY SEWER", CASTING SHALL BE NEENAH R-1783-A WITH EXTRA HEAVY DUTY TYPE "B" LID (TOTAL WEIGHT APPROX. 470#) OR EAST JORDAN IRON WORKS CASTING 1522 WITH TYPE "A" LID. WHERE LABELED "WATERTIGHT" ON PLANS, LIDS SHALL BE SEALED WITH A NEOPRENE GASKET AND FOUR (4) 5/16" DIA. STAINLESS STEEL BOLTS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING PVC MARKERS AT ALL MANHOLES, CLEAN-OUTS, AIR RELEASE VALVE PITS, LINE VALVES, ETC. ON CROSS-COUNTRY SEWER LINES. INCLUDE A GPS LAT/LONG READING ON ALL REFERENCED ITEMS ABOVE. AFTER LATERAL WYE BRANCH, RISER AND CONNECTION HAVE BEEN INSTALLED, THE END OF THE CONNECTION SHALL BE SEALED WITH AN AIR TIGHT SPIGOT CAP OR AIR TIGHT PLUG AND THE CAP OR PLUG PAINTED YELLOW. THE END OF THE SANITARY CONNECTION SHALL BE MARKED WITH A 2"X 2" HARDWOOD STAKE, EXTENDING VERTICALLY FROM THE END OF THE CONNECTION TO A POINT APPROX. 3' ABOVE THE SURFACE OF THE GROUND.

- 8. LEAKAGE TEST FOR MANHOLES VACUUM TESTING OF CONCRETE SEWER MANHOLES SHALL BE TESTED (IAW) IN ACCORDANCE WITH ASTM C-1244-93. LEAKAGE TEST FOR SEWERS - EITHER WATER OR AIR TEST SHALL BE CONDUCTED TO SHOW EXFILTRATION OR INFILTRATION NOT TO EXCEED 100 GALLONS PER INCH DIAMETER PER MILE PER DAY, AND A MINIMUM POSITIVE HEAD OF 2 FEET. AIR TESTING SHALL CONFORM TO ASTM F-1417 FOR PLASTIC PIPE. DEFLECTION TESTS FOR FLEXIBLE PIPE - NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. ALL INSPECTION AND TESTING SHALL BE DONE BY AN EXPERIENCED AND QUALIFIED FIRM ENGAGED IN THIS TYPE OF WORK, AS APPROVED BY TCWR. WRITTEN REPORTS FOR ALL INSPECTION AND TESTING SHALL BE SUBMITTED TO TCWR FOR APPROVAL. ALL SANITARY SEWERS MUST BE FLUSHED AND PASS THE LATEST PROPOSED LOW PRESSURE AIR TEST REQUIREMENTS AND DEFLECTION TEST REQUIREMENTS OF THE OEPA. ALL FINAL TESTING AND INSPECTIONS SHALL BE PERFORMED AFTER COMPLETION OF CONSTRUCTION AND SEEDING OF DISTURBED AREAS. IF THE INSTALLATION FAILS TO MEET THE REQUIREMENTS OF THESE TESTS AND INSPECTIONS. THE CONTRACTOR SHALL REPAIR ALL DEFECTS AND RETEST THE INSTALLATION WITH NO ADDITIONAL COST TO THE COUNTY.
- 9. EACH SECTION OF FORCE MAIN SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF 50 PSI AT THE HIGH END OF THE PIPE OR TWICE THE WORKING PRESSURE WHICHEVER IS THE GREATER. ALL TESTING SHALL BE DONE IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE. THE ALLOWABLE LEAKAGE PER 1000 FEET OF FORCE MAIN PER HOUR SHALL COMPLY WITH TUSCARAWAS COUNTY STANDARDS SPECS SECTION
- 10. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWERAGE SYSTEM RESULTING FROM NON-CONFORMANCE WITH VILLAGE OR ODOT STANDARDS OR GENERAL NEGLIGENCE. ALL REPAIRS OR REPLACEMENTS MUST CONFORM TO TCWR STANDARDS.
- 11. TWELVE (12") INCH GRADE ADJUSTMENT OF MANHOLES PERMITTED WITH CONCRETE GRADE RINGS. MAXIMUM ADJUSTMENT NOT TO EXCEED 12 INCHES. MINIMUM OF ONE GRADE RING REQUIRED.
- 12. WHERE INLET AND OUTLET PIPES CONNECT TO MANHOLES A FLEXIBLE WATERTIGHT JOINT AS APPROVED BY VILLAGE IS REQUIRED.
- 13. THE GRAVITY SEWER AND FORCE MAIN SEWER SHALL CONFORM TO THE MATERIAL TYPES AS NOTED IN THE PLANS AND PROJECT SPECIFICATIONS. ALL NONMETALLIC PIPE SHALL INCLUDE THE INSTALLATION OF A TRACE WIRE. WATER TRACE WIRE SHALL BE #12 AWG STEEL-COPPER COMPOSITE WIRE WITH 45 MIL HIGH DENSITY POLYETHYLENE EXTERIOR COATING, 21% IACS CONDUCTIVITY, BLUE IN COLOR, AND HAVE 1,030 POUND MINIMUM BREAK LOAD. SEWER TRACE WIRE SHALL BE #12 AWG STEEL-COPPER COMPOSITE WIRE WITH 45 MIL HIGH DENSITY POLYETHYLENE EXTERIOR COATING, 21% IACS CONDUCTIVITY, GREEN IN COLOR AND HAVE 1,030 POUND MINIMUM BREAK LOAD.
- 14. THE PREFERRED MINIMUM COVER FOR SANITARY SEWERS CONSTRUCTED UNDER A ROAD IS FIVE FEET (5'). UNDER NO CIRCUMSTANCES SHALL THE COVER FOR ANY SANITARY SEWER BE LESS THAN FIVE FEET (5').
- 15. SANITARY SEWER LATERALS ARE TO BE SIX INCH (6") DIAMETER AT A GRADE OF 1.0% UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. A MINIMUM OF FIVE FOOT (5') COVER IS TYPICAL. ALL LATERALS SHALL MAINTAIN AN EIGHTEEN INCH (18") VERTICAL AND TEN FOOT (10') HORIZONTAL SEPARATION FROM ALL WATER LINES AND STORM SEWER UNLESS THE LATERAL IS CONSTRUCTED USING (D.I.P) DUCTILE IRON PIPE CLASS 53. ALL NEW LATERALS SHALL ENTER THE NEW SEWER PIPE AT A 45° ANGLE. NO LATERAL SHALL DROP AT A 90° ANGLE INTO THE SEWER PIPE.
- 16. PLACE PLUGS IN ENDS OF UNCOMPLETED CONDUIT AT THE END OF EACH DAY OR WHENEVER WORK STOPS. ALL NEWLY LAID SEWER SHALL BE FLUSHED AND ALL MANHOLES INSPECTED FOR CLEANLINESS UPON COMPLETION OF THE PROJECT.

STORM SEWER:

- 1. THE CONTRACTOR SHALL REPLACE/REPAIR ALL EXISTING STORM SEWERS AND CATCH BASINS DISTURBED AS A RESULT OF THIS PROJECT. ANY STORM SEWERS UNDERNEATH ROADWAYS SHALL BE ODOT AND VILLAGE ENGINEER APPROVED PIPE SECTIONS. STORM CULVERTS BENEATH DRIVE APRONS SHALL BE REPLACED IN KIND WITH THE SAME SIZE AND MATERIAL PIPE OR APPROVED EQUIVALENT MATERIAL. STORM SEWERS REPLACED WITHIN YARDS SHALL BE NON-PERFORATED HI-Q CORRUGATED EXTERIOR, SMOOTH INTERIOR, STORM DRAINAGE PIPE BY HANCOR OR VILLAGE APPROVED EQUAL. ALL WORK SHALL BE PER ODOT ITEM CMS 611 REQUIREMENTS. THIS WORK IF REQUIRED SHALL BE INCLUDED IN THE PRICE BID UNDER ITEM 901.
- 2. ALL STORM INLET STRUCTURES SHALL BE PROTECTED FROM SILT INFILTRATION. GRATE OPENINGS SHALL BE COVERED WITH ENGINEERING FABRIC AND STRAW BALES SHALL BE PLACED AROUND ALL STORM INLET STRUCTURES TO PREVENT SILT FROM ENTERING STORM SYSTEM.
- 3. ALL STORM SEWER INSTALLED BENEATH PAVEMENT SHALL BE REINFORCED CONCRETE OF SAME SIZE OF PIPE BEING REPLACED. CONTROL DENSITY BACKFILL SHALL BE UTILIZED FOR STORM SEWER BENEATH PAVEMENT.

TREE REMOVAL & PROTECTION:

RIGHT OF WAY:

ALL TREES, STUMPS, BRUSH, SHRUBS, AND BUSHES THAT ARE MARKED ON THE PLANS TO BE REMOVED SHALL BE CUT DOWN, REMOVED AND LEGALLY DISPOSED OF BY THE CONTRACTOR, REGARDLESS OF INSTALLATION METHODS; TO INCLUDE TRENCHLESS DRILLING CONSTRUCTION. TREE STUMPS OUTSIDE OF THE TRENCH EXCAVATION LIMITS AND WITHIN FIELD OR WOODED AREAS MAY REMAIN BUT SHALL BE CUT FLUSH WITH THE GROUND ELEVATION. TREE STUMPS WITHIN LAWN YARD AREAS SHALL BE GROUND AND REMOVED TO 6" BELOW THE GROUND ELEVATION. THE CONTRACTOR SHALL SAVE AND PROTECT ALL TREES OUTSIDE OF THE RIGHT OF WAY. WHEN PROTECTED TREES HAVE LIMBS PROTRUDING INTO THE RIGHT OF WAY AND IN CONFLICT WITH CONSTRUCTION EQUIPMENT, THE PROPERTY OWNER MAY GRANT PERMISSION TO PRUNE. THE CONTRACTOR SHALL GET APPROVAL FOR ALL TREE PRUNING FROM THE ENGINEER. ANY TREES, STUMPS, BRUSH, SHRUBS, AND BUSHES NOT MARKED IN THE PLANS TO BE REMOVE THAT IS DEEMED BY THE CONTRACTOR AS NECESSARY FOR REMOVAL SHALL REQUIRE WRITTEN PERMISSION FROM THE PROPERTY OWNER AND VILLAGE BEFORE REMOVING THE CONTRACTOR COSTS TO PERFORM ALL OF THIS DESCRIBED WORK WITHIN THE RIGHT OF WAY IS INCLUDED IN THE COST OF THE VARIOUS BID ITEMS.

EASEMENT:

ALL TREES, STUMPS, BRUSH, SHRUBS, AND BUSHES WHOSE TRUNK IS LOCATED WITHIN THE PERMANENT EASEMENT SHALL BE CUT DOWN, REMOVED AND LEGALLY DISPOSED OF BY THE CONTRACTOR. TREE TRUNKS AND LIMBS OF 6" DIAMETER AND GREATER SHALL BE CUT TO 10' LENGTHS, SAVED AND OFFERED TO THE PROPERTY OWNER. IF THE PROPERTY OWNER DOES NOT WANT THE WOOD, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL AND DISPOSE OFF THE SITE. TREE STUMPS OUTSIDE OF THE TRENCH EXCAVATION LIMITS AND WITHIN FIELD OR WOODED AREAS MAY REMAIN BUT SHALL BE CUT FLUSH WITH THE GROUND ELEVATION. TREE STUMPS WITHIN LAWN YARD AREAS SHALL BE GROUND AND REMOVED TO 6" BELOW THE GROUND ELEVATION. TREES, STUMPS, BRUSH, SHRUBS, AND BUSHES SHALL BE REMOVED WITHIN THE PERMANENT EASEMENT REGARDLESS OF TRENCHLESS DRILLING CONSTRUCTION INSTALLATION METHODS USED BY HE CONTRACTOR. THE CONTRACTOR SHALL SAVE AND PROTECT ALL TREES OUTSIDE OF THE PERMANENT EASEMENT. WHEN PROTECTED TREES HAVE LIMBS PROTRUDING INTO THE PERMANENT EASEMENT AND IN CONFLICT WITH CONSTRUCTION EQUIPMENT, THE PROPERTY OWNER MAY GRANT PERMISSION TO PRUNE. THE CONTRACTOR SHALL GET APPROVAL FOR ALL TREE PRUNING FROM THE ENGINEER. THE CONTRACTOR COSTS TO PERFORM ALL OF THIS DESCRIBED WORK WITHIN THE PERMANENT EASEMENT IS INCLUDED IN THE COST OF THE VARIOUS BID ITEMS.

ROADWAYS & DUST CONTROL:

- 1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE OHIO AND FEDERAL MANUALS OF UNIFORM TRAFFIC
- 2. THE CONTRACTOR SHALL THOROUGHLY CLEAN OFF ALL ROADS OF ANY DIRT OR DEBRIS DAILY AND SHALL UTILIZE DUST CONTROL AS NECESSARY OR AS REQUESTED BY THE ENGINEERING INSPECTOR.
- 3. ALL DISTURBED UTILITIES, SIGNS, GUARD RAIL, MAIL AND/OR PAPER BOXES, ROADWAYS AND DRIVEWAYS SHALL BE PUT TEMPORARILY IN SERVICE AT THE END OF EACH WORK DAY. UNTIL PERMANENT REPAIRS CAN BE COMPLETED. THE CONTRACTOR SHALL REPLACE ALL SIDEWALKS AND DECORATIVE ISLANDS WITHIN GRANTED WORK EASEMENTS.

PROHIBITED CONSTRUCTION ACTIVITIES:

- NO USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.
- 2. NO OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN OEPA OPEN BUILDING AIR PERMIT OR DISPOSING OF THE TREES AND STUMPS.
- 3. NO PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS.
- 4. NO DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWERAGE - AND OTHER HARMFUL WASTE INTO OR ALONGSIDE RIVERS, STREAMS, IMPOUNDMENTS OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- 5. NO STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, ASPHALT OR CONCRETE ROADWAY SURFACES (INCLUDING ANY EARTH EXCAVATION OR EMBANKMENT MATERIAL). NOT PREVIOUSLY SPECIFIED OR APPROVED BY THE ENGINEER FOR SAID PURPOSES.
- 6. NO DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
- 7. NO HEAVY MOTORIZED CONSTRUCTION EQUIPMENT ENTERING THE STREAM CHANNEL
- 8. NO DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

UTILITY POLES:

 THE UTILITY POWER POLES ARE OWNED BY AMERICAN ELECTRIC POWER (AEP). CONTRACTOR SHALL CONFIRM UTILITY POLE OWNERSHIP. CONTRACTOR SHALL COORDINATE AND PROVIDE UTILITY POLE OWNER (AEP) TRUCK EQUIPMENT TO PROVIDE POLE HOLDS AND IF REQUIRED DURING SEWER CONSTRUCTION AT THE CONTRACTORS EXPENSE. THIS WORK IF REQUIRED IS INCLUDED WITH THE UNIT PRICE OF THE BID ITEMS 901.

EXISTING UTILITY LINES:

1. ANY GAS SERVICE / MAIN LINES, WATER SERVICE / MAIN LINES, COMMUNICATIONS CABLE SERVICE / MAINS, OTHER UTILITY LINES OR UTILITY POLE (SHOWN OR NOT SHOWN ON THESE DRAWINGS) CONFLICT THAT REQUIRES TEMPORARY OR PERMANENT RELOCATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL COORDINATE ALL RELOCATIONS WITH THROUGH THE OWNER OF THE UTILITY IN QUESTION. COSTS OF RELOCATIONS WILL BE RESPONSIBILITY OF OWNER OF THAT UTILITY.

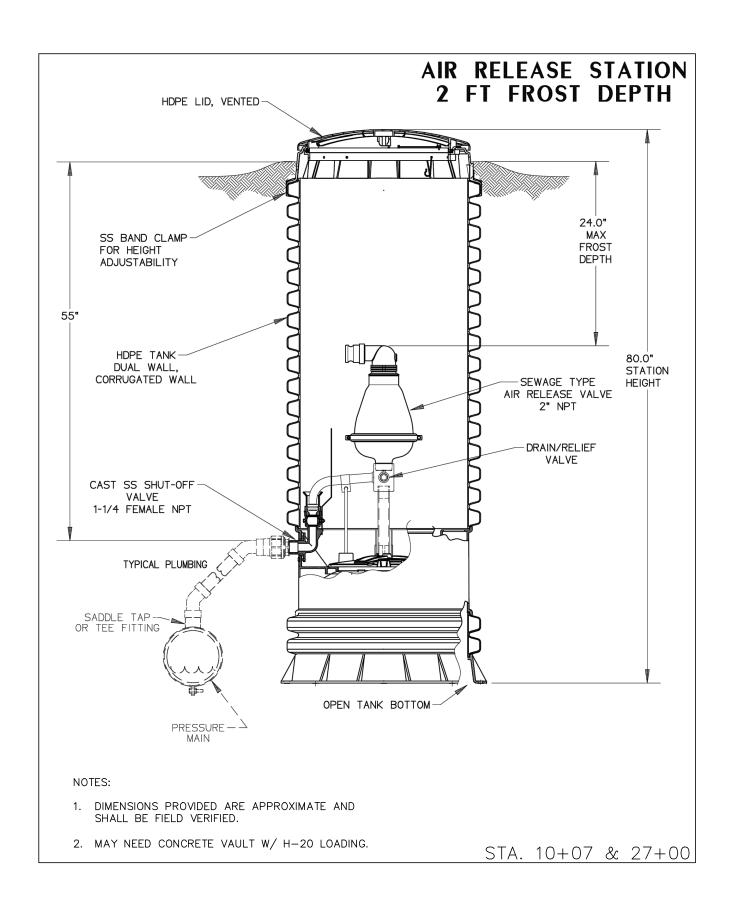
LATERALS:

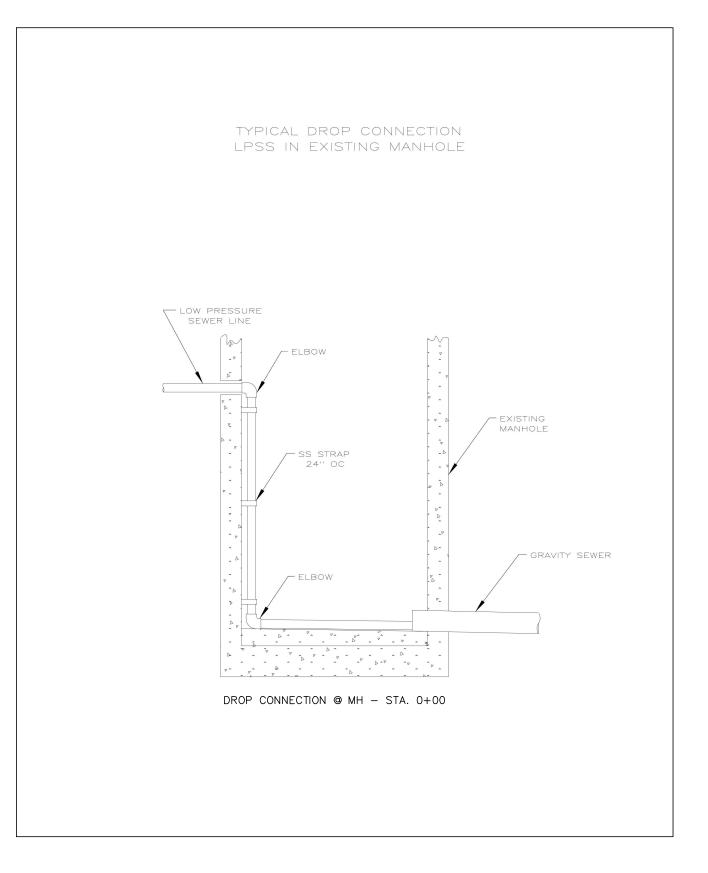
1. ALL LATERALS THAT CROSS THE ROADWAY WILL BE BORED. ANYWHERE WHERE THAT IS NOT FEASIBLE THE CONTRACTOR SHALL GET APPROVAL FROM ENGINEER BEFORE ANY WORK IS DONE IN THAT LOCATION.

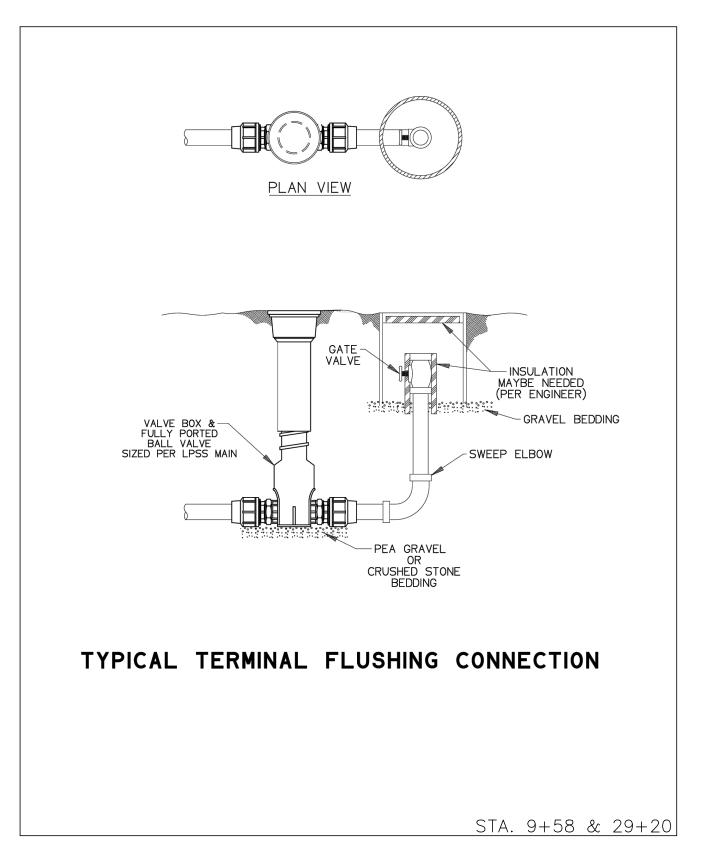
G	RINDER P	UMP S	STATION SCH	HEDULE
SS & GP	ADDRESS	STA	(1) SS LENGTH (FT)	GP SERIAL NUMBER
1	#925 N. COLLEGE ST.	7+72	74.91'	
2	#927 N. COLLEGE ST.	9+95	99.38'	
3	#929 N. COLLEGE ST.	14+00	82.92'	
4	#931½ N. COLLEGE ST.	15+04	129.89'	
5	#931 N. COLLEGE ST.	17+06	76.97'	
6	#945 N. COLLEGE ST.	29+15	65.83'	
7	#13470 SW. LICK RUN RD.	8+36	171.83'	
8	#13428 SW. LICK RUN RD.	9+28	161.46'	
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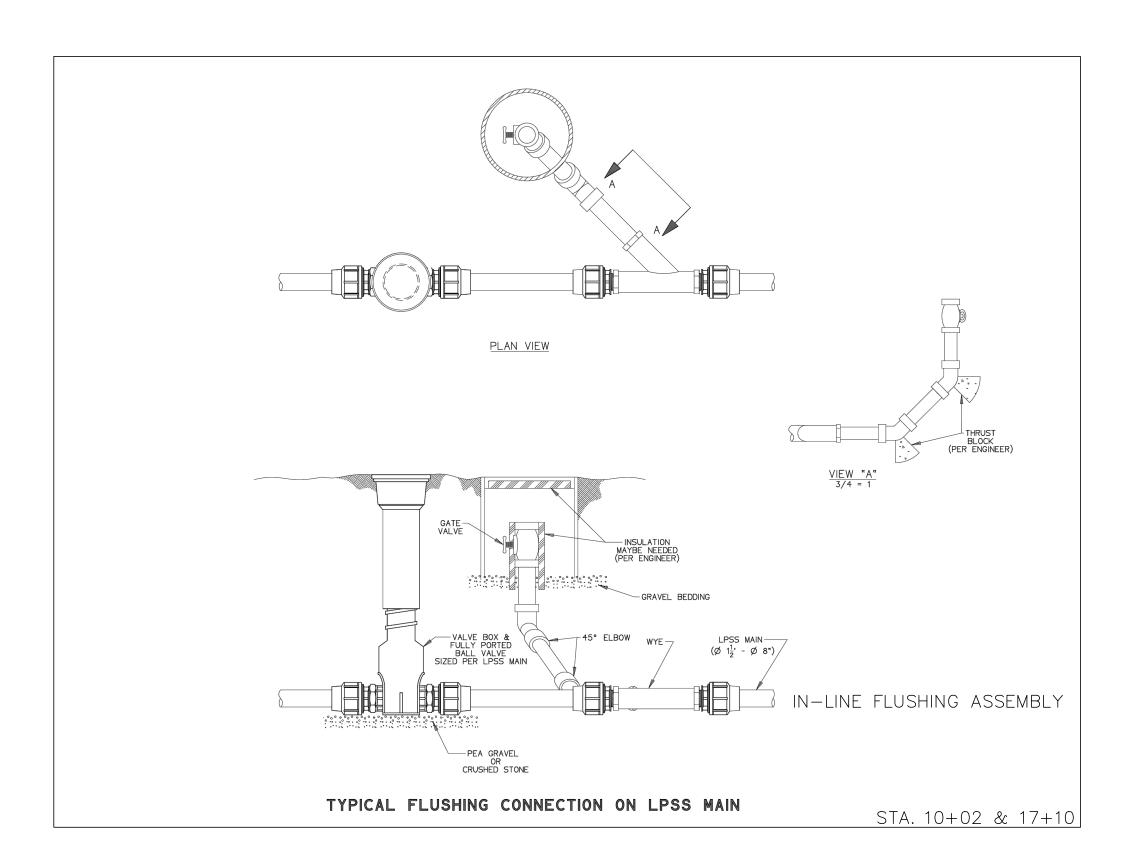
(1) - LENGTHS ARE ESTIMATED, ACTUAL LENGTH TO BE FIELD VERIFIED. (2) - SCHEDULE OF ADDRESSES TO BE IMPROVED WITH THIS PROJECT. CONTRACTOR TO PROVIDE SERIAL NUMBER OF EACH GRINDER PUMP FOR EACH LOCATION.

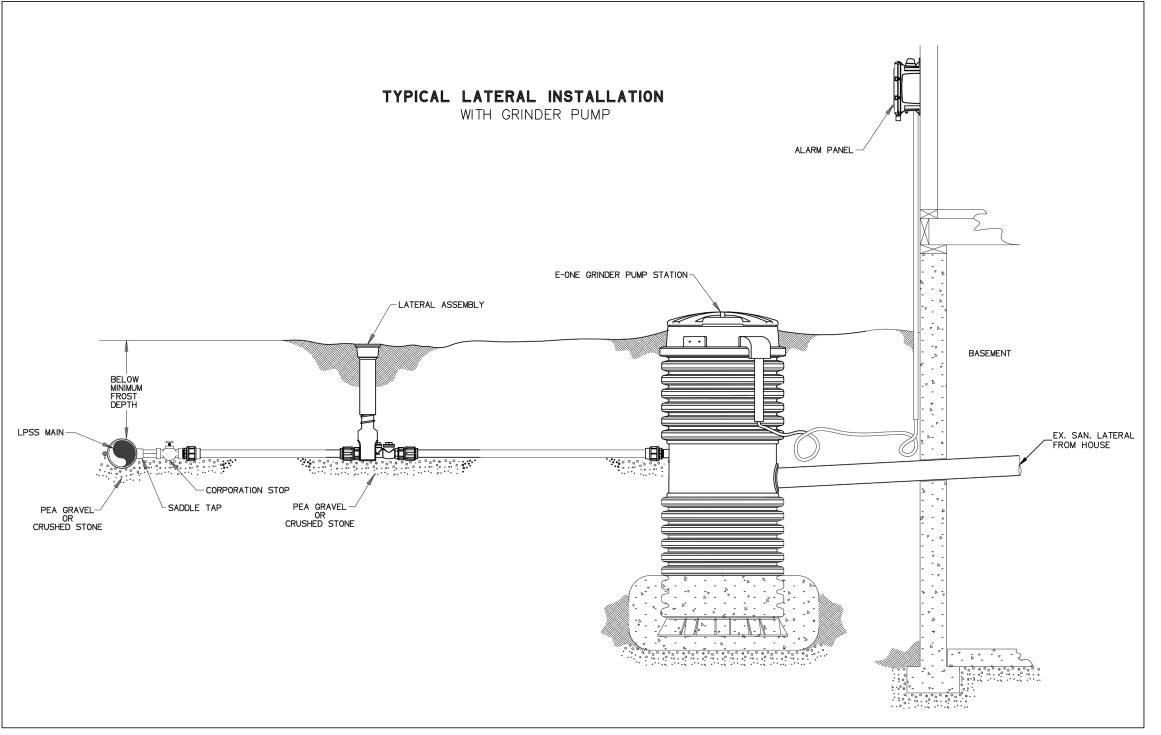
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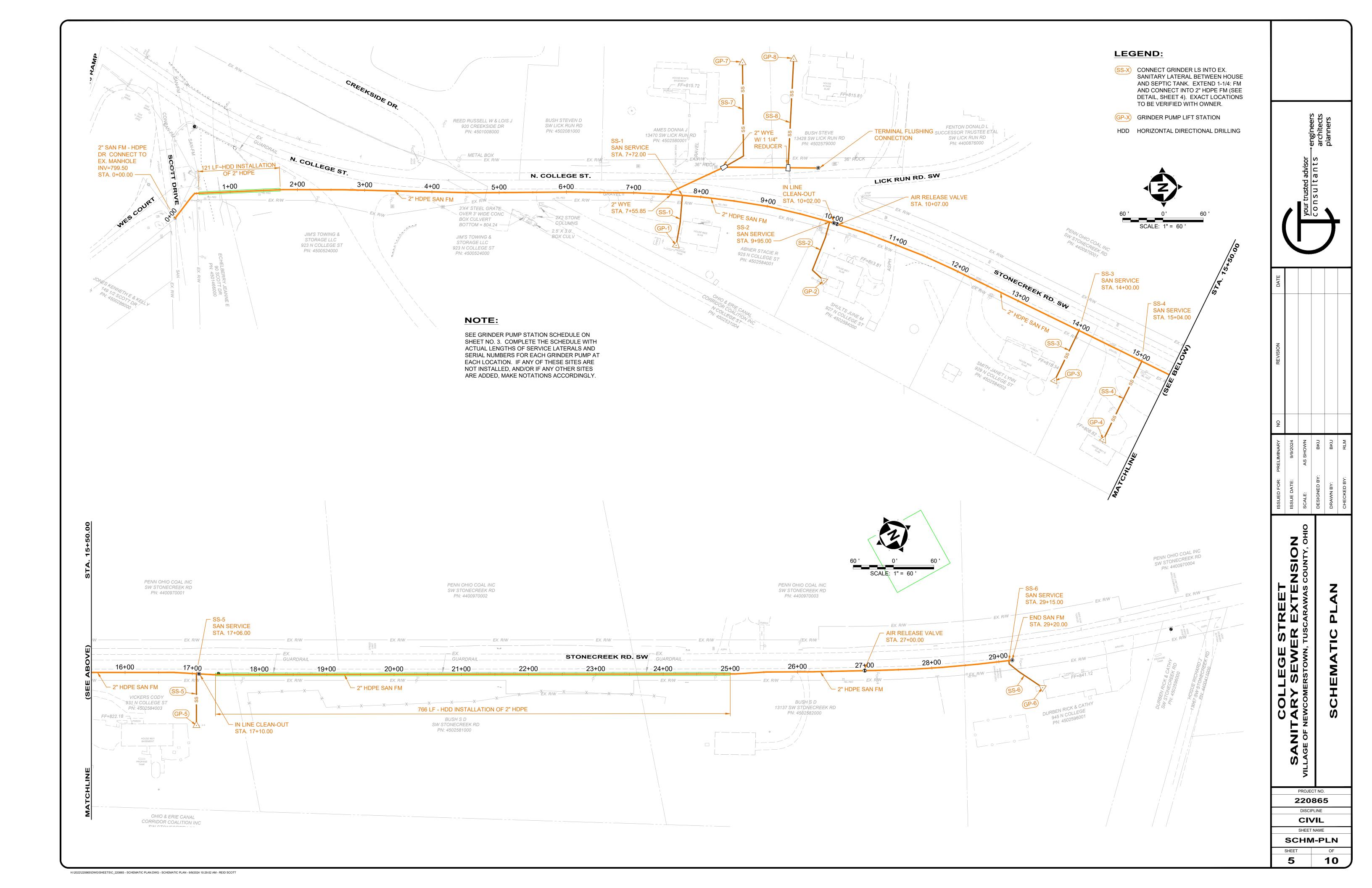


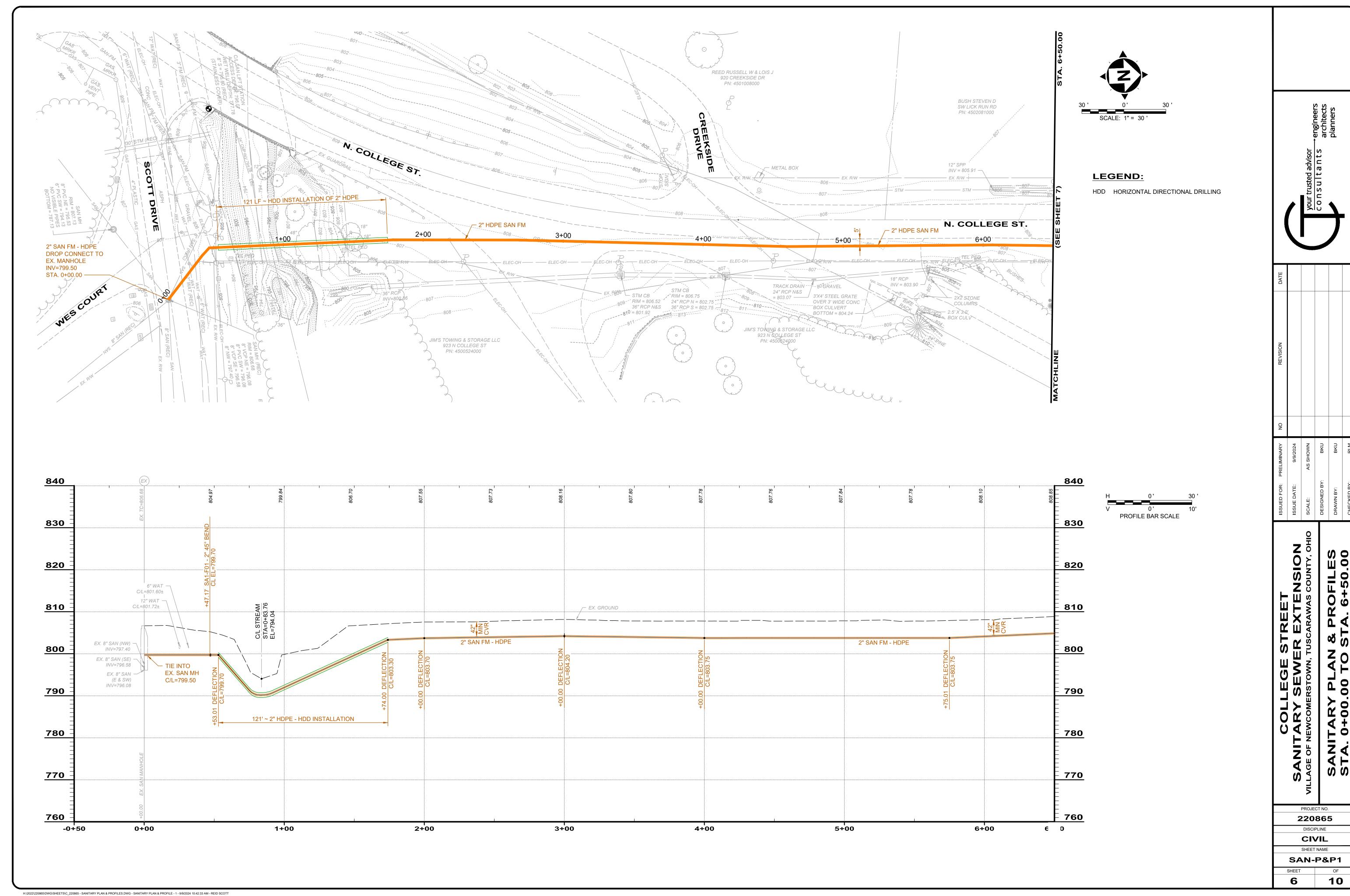


NOTE: ELECTRICAL MUST BE CONNECTED IN EACH HOUSE.

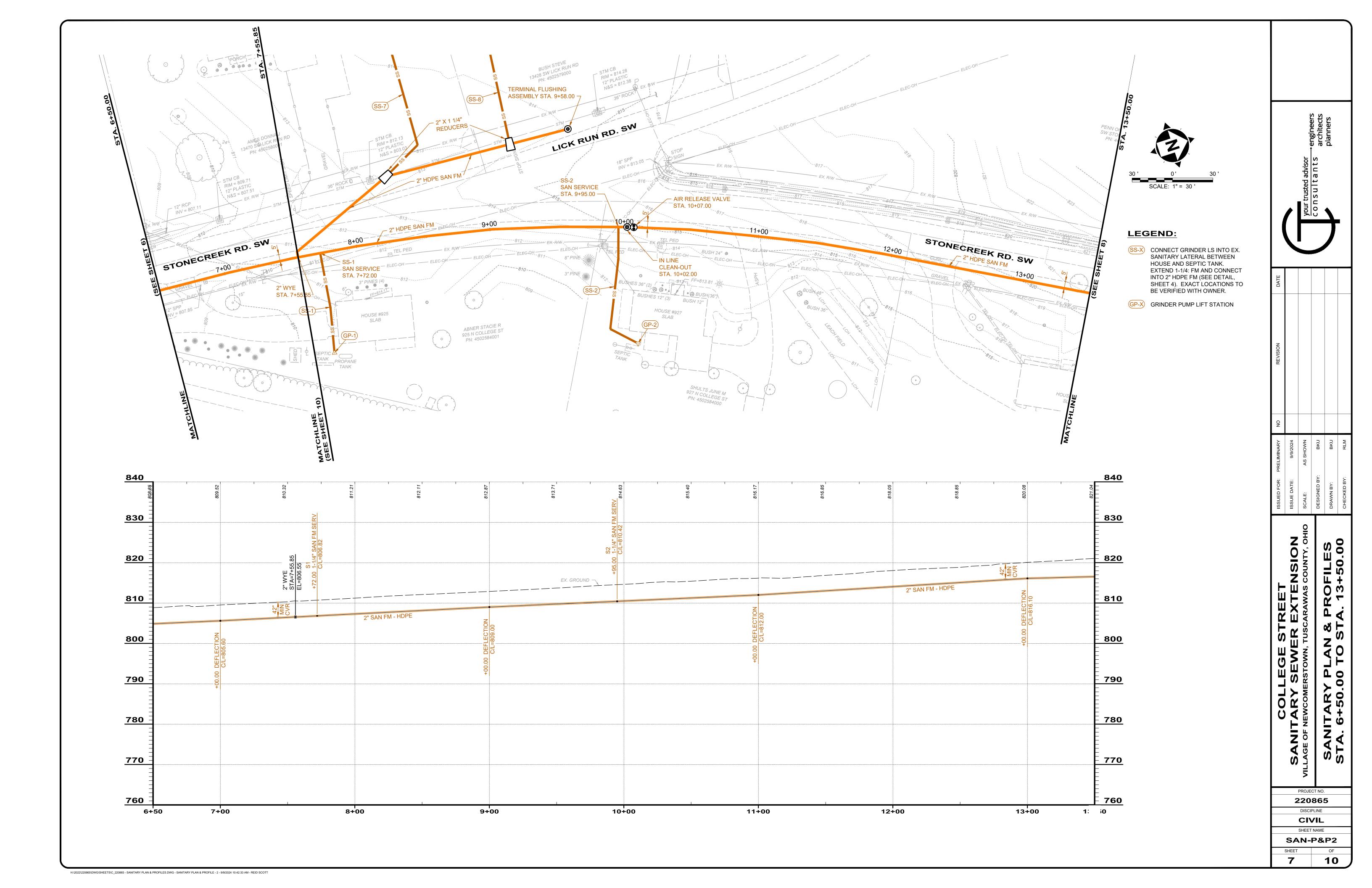
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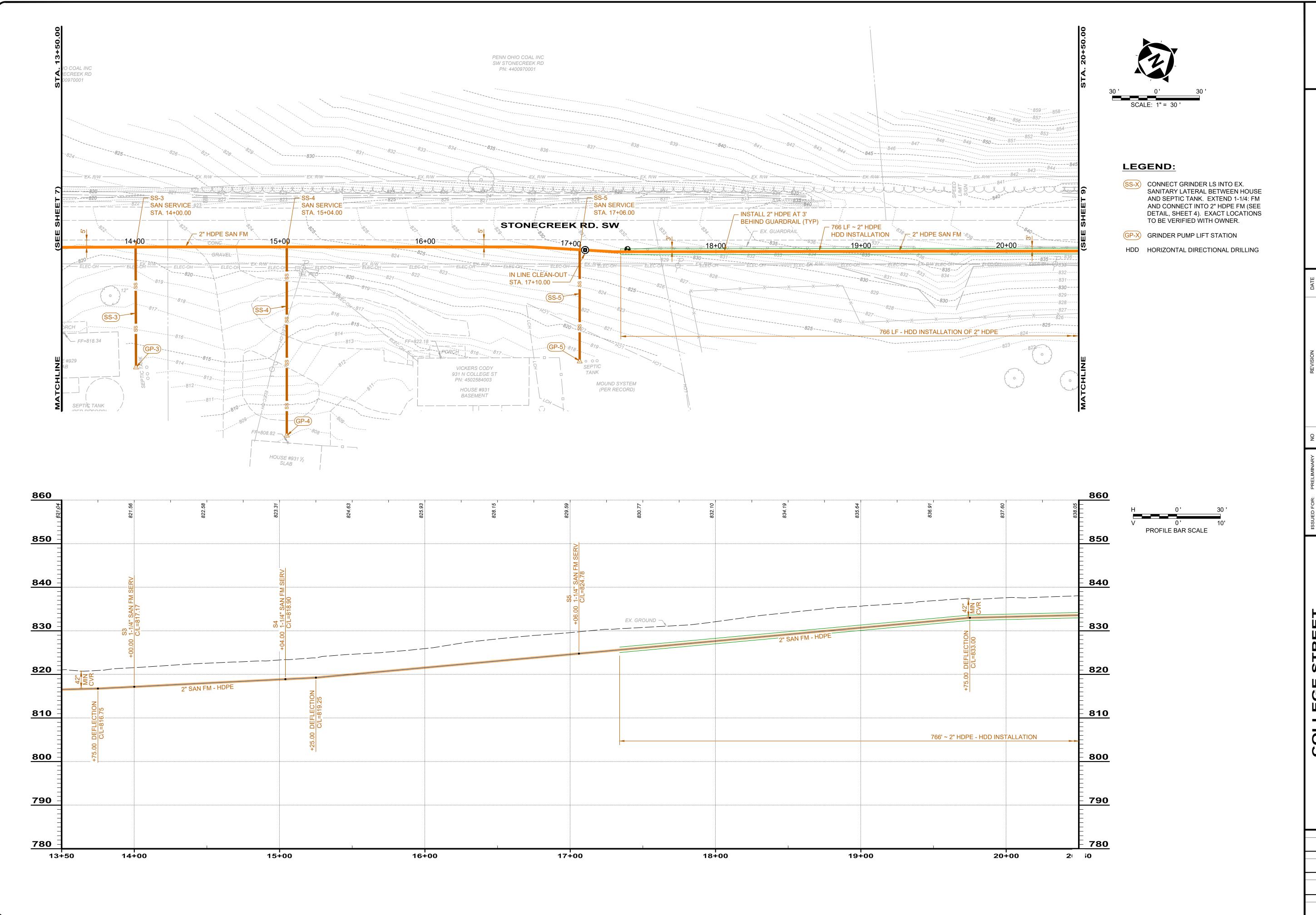
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your trusted advisor

C o n s u l t a n t s

architects
planners

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9/9/2024	AS SHOWN	BKU	BKU	RLM

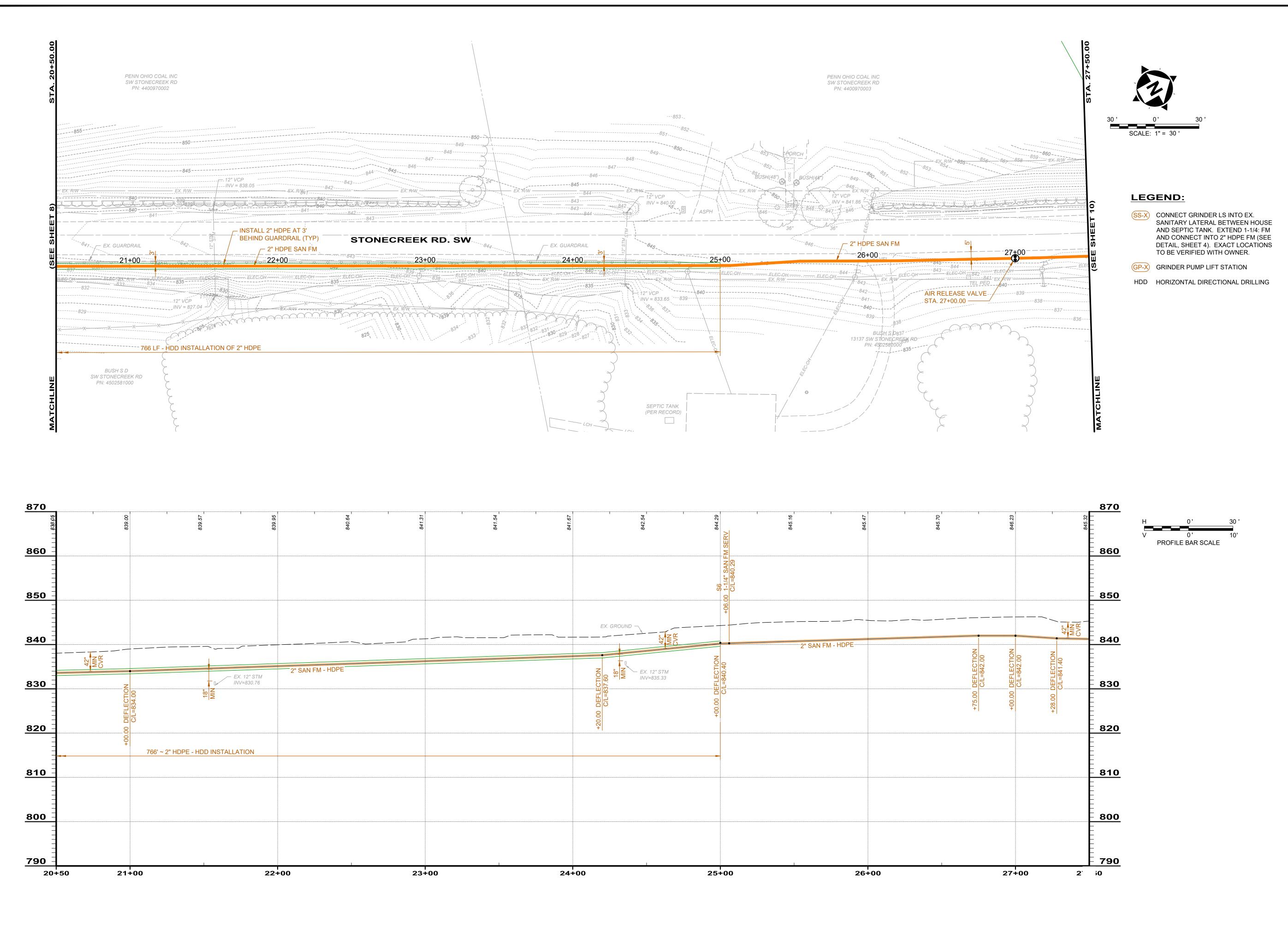
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