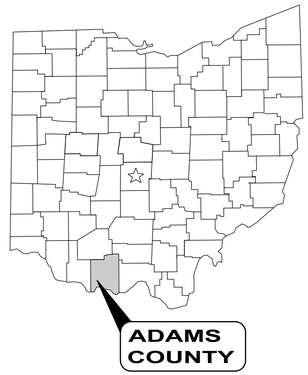
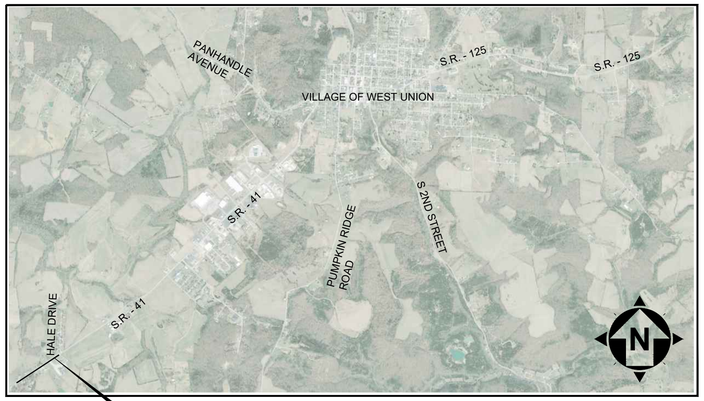
VILLAGE OF WEST UNION

S.R. 41 SEWER EXTENSION AT HALE DRIVE

ADAMS COUNTY, OHIO

2025





LOCATION MAP
NOT TO SCALE

ADMINISTRATION:

JASON BUDA	MAYOR
KENNY FERGUSON	VILLAGE ADMINISTRATOR
SHURI GROVES	FISCAL OFFICER

COUNCIL:

JASON FRANCIS	MEMBER
RACHAEL HAMILTON	MEMBER
DONNA YOUNG	MEMBER
JIMMY NICHOLS	MEMBER
RANDY BREWER	MEMBER
MARY JANE CAMPBELL	MEMBER

OHIO Utilities Protection SERVICE
Call Before You Dig
1-800-362-2764
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)

1. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
2. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

verdantas

ENGINEER'S PROJECT No. 210164

APPROVALS:

Jason Buda — 6-14-2022
JASON BUDA - MAYOR — DATE

OFFICE:

WEST UNION UTILITY OFFICE
11700 STATE ROUTE 41
WEST UNION, OH 45693

(937) 544-5217 PHONE

ENGINEER:

VERDANTAS
6397 EMERALD PARKWAY, SUITE 200
DUBLIN, OHIO 43016

(614) 793-8777 PHONE

Kent A. Bryan — 6/13/2022
KENT A. BRYAN — P.E. No. E-57734 — DATE

BID SET

verdantas

NO	REVISION	DATE

ISSUED FOR:	BIDDING
ISSUE DATE:	4/1/2025
SCALE:	AS NOTED
DESIGNED BY:	DSS
DRAWN BY:	DSS
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

COVER SHEET

PROJECT NO.	
210164	
DISCIPLINE	
GENERAL	
SHEET NAME	
COVER	
SHEET	OF
1	13

MATERIALS AND SPECIFICATIONS

IN GENERAL, UNLESS SPECIFICALLY SET FORTH HEREIN, THE WORK AND MATERIALS SHALL CONFORM TO THE APPLICABLE DIVISIONS AND PARAGRAPHS OF THE MOST CURRENT EDITIONS OF THE: STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW AND BOTH WORKMANSHIP AND MATERIALS SHALL BE OF PREMIUM QUALITY, PROPER AND SUFFICIENT FOR THE PURPOSE CONTEMPLATED. THE CONTRACTOR SHALL FURNISH, IF SO REQUIRED, SATISFACTORY EVIDENCE AS TO TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP.

ALL ITEMS OF EQUIPMENT AND/OR MATERIAL PROPOSED BY THE CONTRACTOR FOR SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER IN WRITING AND SHALL BE EQUAL OR SUPERIOR TO THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS. IF SAID SUBSTITUTION PROPOSED BY THE CONTRACTOR FOR A SPECIFIED ITEM REQUIRES ENGINEERING REVISIONS, THE TOTAL EXPENSE OF SAID REVISIONS SHALL BE PAID BY THE CONTRACTOR.

ANY ITEMS OF LABOR AND MATERIALS REQUIRED BUT NOT SHOWN AS A SEPARATE PAY ITEM IN THE PROPOSAL SHALL BE FURNISHED AND INSTALLED AS INCIDENTAL TO THE CONTRACT, EXCEPT AS NOTED IN THE PLANS AND SPECIFICATIONS.

PERMITS
OEPA PTI PERMITS, ODOT PERMITS, AND ANY BUILDING, ELECTRIC, OR PLUMBING PERMITS ARE THE RESPONSIBILITY OF THE OWNER.

RESPONSIBILITY
BY SUBMITTING A BID, OR STARTING CONSTRUCTION, THE CONTRACTOR CERTIFIES THAT THE CONTRACTOR SHALL VISIT THE SITE AND BE SATISFIED THAT HE UNDERSTANDS ALL SITE CONDITIONS THAT MAY HAVE AN EFFECT ON HIS PRICE AND CONSTRUCTION SCHEDULE.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM HIS WORK IN SUCH A MANNER AS NOT TO DAMAGE OR DESTROY ANY EXISTING FEATURE, (I.E. EXISTING INLETS, CONDUITS, ETC.) WHICH IS NOT MARKED FOR REPLACEMENT OR REMOVAL. IF ANY SUCH DAMAGE DOES OCCUR DUE TO THE OPERATIONS OF THE CONTRACTOR, HE SHALL REPLACE THE DAMAGED PORTION AT HIS EXPENSE.

THE CONTRACTOR SHALL EXERCISE DUE CARE DURING CONSTRUCTION SO AS NOT TO DESTROY ANY TREES, PLANTS, SHRUBS OR STRUCTURES OUTSIDE OF THE INDICATED WORK LIMITS AND THOSE NOT SPECIFICALLY MARKED FOR REMOVAL OR RELOCATION WITHIN THE WORK LIMITS.

IN SOME INSTANCES, THE CONTRACTOR WILL BE REQUIRED TO EXCAVATE UNDER AND AROUND THE EXISTING UTILITIES. EXTREME CARE SHOULD BE USED NOT TO DAMAGE THE UTILITY DURING THIS OPERATION.

UNDERGROUND UTILITIES
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 OF THE OHIO REVISED CODE AND TO THE BEST ABILITY OF THE ENGINEER. IT SHALL BE FINAL RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE UTILITY AS TO LINE AND GRADE BEFORE STARTING ANY OPERATION THAT INTERFERES WITH THE UTILITY.

UTILITIES NOT UNDERGROUND ARE NOT INCLUDED ON THE PLAN.

THE UTILITY INFORMATION SHOWN ON THE PLANS IS BASED ON INFORMATION RECEIVED FROM OTHERS AND HAS NOT BEEN VERIFIED BY THE ENGINEER OR OWNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF THE UTILITIES AND TO COORDINATE ANY IMPACT CAUSED BY THE PROPOSED WORK WITH ALL UTILITY OWNERS AND/OR THEIR CONTRACTORS. THE CONTRACTOR WILL BE REQUIRED TO DIG TEST HOLES AT ALL UTILITY CROSSINGS TO LOCATE THE UTILITY AS TO BOTH LOCATION AND ELEVATION AND CONTACT THE ENGINEER IN THE EVENT OF A CONFLICT. COST OF ALL THE ABOVE SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE.

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICES, AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN ON THE DRAWINGS.

THE FOLLOWING IS A PARTIAL LIST OF UTILITY OWNERS IDENTIFIED WITH THE PROJECT AREA. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE RESPECTIVE PUBLIC SERVICE CORPORATIONS AS LISTED:

OHIO UTILITIES PROTECTION SERVICE
(800) 362-2764
(614) 715-2984

TELEPHONE:
FRONTIER NORTH
7533 SR 125
(800) 921-8101

CABLE:
SPECTRUM
(800) 892-4357
(800) 544-6900

GAS:
DUKE ENERGY
139 E. 4TH ST
CINCINNATI, OH. 45202

ELECTRIC:
AEP OHIO
3225 SCIOTO TRAIL
PORTSMOUTH, OH. 45662
(800) 672-2231

WATER/SEWER:
VILLAGE OF WEST UNION
11700 SR 41
(937) 544-5217

COOPERATION WITH UTILITIES:
THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL PUBLIC OR PRIVATE UTILITY FACILITIES DURING CONSTRUCTION. SHOULD IT BECOME NECESSARY TO MOVE, ADJUST OR TEMPORARILY RELOCATE ANY SUCH FACILITY, THE WORK SHALL BE DONE BY THE OWNER OF THE UTILITY FACILITY. ANY DAMAGE TO UTILITY FACILITIES BY THE CONTRACTOR OR HIS SUBCONTRACTORS WILL BE REPAIRED BY THE OWNER OF THE SAID UTILITY AND THE COST OF SAID REPAIRS WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR TO SEND PROOF OF PAYMENT TO THE UTILITY FOR THE REPAIR TO THE OWNER, PRIOR TO FINAL PAYMENT.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT OR RELOCATED POSITIONS AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED BY HIM DUE TO ANY INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM.

CONSTRUCTION LAYOUT STAKING
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION LAYOUT STAKES FOR THIS PROJECT. WORK IN EXCESS OF THE SERVICES DESCRIBED SHALL BE PAID FOR BY THE CONTRACTOR TO THE ENGINEER.

DUST CONTROL
DUST SHALL BE KEPT TO A MINIMUM. COST OF EQUIPMENT AND MATERIAL REQUIRED TO PERFORM THIS ITEM SHALL BE INCIDENTAL TO THE OVERALL BID PRICE.

SAFETY:
MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR ALL PRODUCTS AND/OR BUILDING MATERIALS THAT MAY CONTAIN HAZARDOUS OR TOXIC CHEMICALS SHALL BE MADE READILY AVAILABLE TO CONTRACTOR, EMPLOYEES, AND OWNERS PERSONNEL DURING CONSTRUCTION. MSDS'S TO BE FORWARDED TO THE ENGINEER AT START OF AND DURING CONSTRUCTION AND TO THE OWNER UPON COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE MUNICIPALITY.

TRENCH EXCAVATION:
EXCAVATION SHALL BE LIMITED TO THE RIGHTS OF WAY AND EASEMENTS OF LANDS CONTROLLED BY THE OWNER.

THE LENGTH OF TRENCH TO BE OPENED OR THE AREA OF THE SURFACE TO BE DISTURBED AT ANY ONE TIME WILL BE LIMITED WITH REGARD TO BOTH EXPEDITIOUS CONSTRUCTION AND TO THE CONVENIENCE AND COMFORT OF THE PUBLIC RESIDING IN THE NEIGHBORHOOD OR FREQUENTING STREETS ADJACENT TO OR ALONG THE EXCAVATION, UNLESS OTHERWISE SPECIFICALLY PERMITTED BY THE ENGINEER. THE FOLLOWING LIMITATIONS TO LENGTH OF OPERATIONS WILL BE IMPOSED.

1. PLACEMENT OF PROPOSED CONDUIT AND BACKFILL MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF TRENCH, WHICH IS OPEN AT ANY ONE TIME, SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

2. IN PUBLIC AREAS, ALL UNCOMPLETED MAIN LINE, SERVICE LINE AND MANHOLE EXCAVATION, BACKFILL AND TEMPORARY SURFACING SHALL NOT EXCEED 100 FEET OR AS DIRECTED BY THE ENGINEER.

IF FOR ANY REASON THE WORK IS STOPPED ON THE WHOLE OR ANY PART OF THE TRENCH AND THE SAME IS LEFT OPEN FOR AN UNREASONABLE LENGTH OF TIME IN ADVANCE OF THE CONSTRUCTION OF THE CONDUIT, THE CONTRACTOR SHALL, WHEN SO DIRECTED, REFILL SUCH TRENCH OR PART THEREOF AND TEMPORARILY RESTORE THE SAME AT HIS OWN EXPENSE AND HE SHALL NOT AGAIN OPEN SUCH TRENCH OR PART THEREOF UNTIL HE IS READY TO PROCEED WITH THE CONSTRUCTION OF THE WORK.

ALL EXCAVATIONS WITHIN PUBLIC AREA LIMITS SHALL BE COMPLETELY CLOSED AT ALL TIMES WHEN THERE IS A DELAY IN THE PROGRESS OF THE WORK.

EXCESS EXCAVATION MATERIAL:
THE REMOVAL AND DISPOSAL OF ALL EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH THE OWNER A COPY OF WRITTEN PERMISSION FROM THE PROPERTY OWNER PRIOR TO DISPOSING OF ANY WASTE MATERIAL.

ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF AT THE VILLAGE OF WEST UNION WASTEWATER TREATMENT PLANT. CONTRACTOR SHALL SPREAD, GRADE, AND WALK MATERIAL IN WITH THE TRACKS OF DOZER TO ACHIEVE COMPACTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE RESTORATION OF ALL WASTE AREAS USED IN THE COURSE OF THIS PROJECT. THE RESTORATION WORK SHALL INCLUDE CLEANUP, SHAPING AND GRADING AND ESTABLISHMENT OF VEGETATIVE COVER BY SEEDING AND MULCHING IN ACCORDANCE WITH ODOT ITEM 659. THE FINAL GRADING OF WASTE AREAS SHALL BE PROPERLY SLOPED TO PROVIDE DRAINAGE RUNOFF. ALL ROCKS, BOULDERS, CONCRETE CHUNKS, BROKEN PIPES, ETC. SHALL BE BURIED WITHIN THE WASTE AREA TO A DEPTH OF AT LEAST TWO (2) FEET AND SHALL NOT BE VISIBLE UPON COMPLETION.

CONTINGENCY QUANTITIES
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ENVIRONMENTAL NOTES:
PROPERLY INSTALL EROSION CONTROLS (E.G., SILT FENCES, STRAW BALES, ETC.) ON SLOPES, ALONG STREAMS AND DRAINAGE WAYS, AROUND DRAINAGE STRUCTURES, AND ANYWHERE ELSE THAT EXPOSED SOIL COULD RUN OFF. ALL SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO STARTING CONSTRUCTION.
ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AT A SITE APPROVED BY THE ENGINEER. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOODPLAIN, SURFACE WATER, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED. GIVING EXCAVATED SOIL AWAY DOES NOT RELIEVE THE CONTRACTOR OR ENGINEER OF THIS RESPONSIBILITY.
TREE REMOVAL WILL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AND WILL BE LIMITED FURTHER TO THE PERMANENT EASEMENT WHENEVER POSSIBLE. IF THE PROJECT REQUIRES TREES MUST BE CUT, THIS MUST OCCUR BETWEEN OCTOBER 1 AND MARCH 31. INDIANA BATS ARE HIGHLY-DEPENDENT UPON TREES INCLUDING DEAD AND DYING TREES OF SPECIES WITH EXFOLIATING BARK, CREVICES, OR CAVITIES IN UPLAND AREAS OR RIPARIAN CORRIDORS AND LIVING TREES OF THE SPECIES LISTED ABOVE WITH EXFOLIATING BARK, CAVITIES, OR HOLLOW AREAS FORMED FROM BROKEN BRANCHES OR TOPS. IF SUITABLE TREES MUST BE CUT DURING THE PROHIBITED TIME PERIOD, A NET SURVEY MUST BE CONDUCTED TO DETERMINE THE PRESENCE OR ABSENCE OF INDIANA BATS PRIOR TO CUTTING.
IF DEWATERING IS NECESSARY, FLOWS SHOULD BE FILTERED WITH APPROPRIATE BALES OR SETTLED BEFORE ENTERING STORM DRAINS OR STREAMS.
DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL, TREES, OR BRUSH IN WETLANDS OR FLOOD PLAINS EVEN WITH THE PERMISSION OF THE PROPERTY OWNER IS PROHIBITED.

MONUMENTS - BENCHMARKS
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE ALL EXISTING SURVEY MONUMENTATION AND BENCHMARKS. ANY MONUMENTATION (IRON PINS, CONCRETE MONUMENTS, ETC.), WHICH MAY BE DISTURBED DURING CONSTRUCTION, SHALL BE REFERENCED AND REPLACED UPON PROJECT COMPLETION. ALL MONUMENTATION REPLACED SHALL BE OF THE SAME MATERIAL AS ORIGINAL MONUMENT AND SHALL BE REPLACED WITHIN CUSTOMARY LIMITS OF ACCURACY, UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR. FOR U.S.G.S. MONUMENTS AND/OR BENCHMARKS WHICH MAY BE DISTURBED DURING CONSTRUCTION, THE APPROPRIATE AGENCY SHALL BE GIVEN ADEQUATE PRIOR NOTIFICATION TO ALLOW PROPER REFERENCES AND RELOCATION OF THE MONUMENTS TO BE DONE BY THE AGENCY INVOLVED.

SOIL CONDITIONS / WATER TABLE
THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING / TESTING / DETERMINING SITE CONDITIONS AS IT RELATES TO SOIL CONDITIONS AND GROUND WATER TABLE. THE CONTRACTOR MAY EXAMINE ANY EXISTING RECORDS OF BORINGS, TEST EXCAVATIONS, AND OTHER SUBSURFACE INVESTIGATIONS, FOR HIS OWN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZING ALL TRENCH WORK, USING TEMPORARY SHORING (TRENCH BOXES OR OTHER) IF NECESSARY TO CONSTRUCT THE IMPROVEMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PUMPING / DEWATERING TRENCHES, IF NECESSARY.

PAYMENT FOR THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT ITEMS.

SEED, MULCH & FERTILIZER, AS PER PLAN
ALL SEEDING, MULCHING AND FERTILIZING SHALL BE DONE TO DAMAGED AREAS WITHIN THE CONSTRUCTION LIMITS, INCIDENTAL TO THE PROJECT. ALL DAMAGED AREAS REQUIRING RESTORATION OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.

THE ENGINEER SHALL DETERMINE ALL AREAS REQUIRING SEEDING, MULCHING AND FERTILIZER PERTINENT TO THIS CONTRACT.

MAINTENANCE OF TRAFFIC
THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT SPEC. 614 AND M.U.T.C.D. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND MAINTENANCE OF TRAFFIC PLAN TO THE OWNER FOR APPROVAL INDICATING DATES AND DURATION OF EACH PHASE OF CONSTRUCTION.

LOCAL TRAFFIC SHALL HAVE ACCESS TO THEIR RESPECTIVE PROPERTIES AT ALL TIMES, EXCEPT DURING PERIODS OF SEWER CONSTRUCTION OR PAVEMENT REPAIR WHICH TEMPORARILY OBSTRUCTS ACCESS. THE CONTRACTOR SHALL GIVE SUFFICIENT PRIOR NOTICE TO PROPERTY OWNERS BEFORE CLOSING ANY PRIVATE DRIVE. NO PRIVATE DRIVE MAY BE CLOSED FOR MORE THAN SEVEN (7) HOURS AND SHALL BE OPEN TO TRAFFIC AT THE END OF THIS WORKING DAY.

THE CONTRACTOR SHALL MAINTAIN ALTERNATING TWO WAY TRAFFIC ON ALL STREETS DURING CONSTRUCTION. ANY ROAD CLOSURES MUST BE APPROVED BY THE VILLAGE OR ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

SPECIFIC ATTENTION WILL BE DIRECTED TOWARD THE PROPER USE OF FLAGMEN, LIGHTS, DRUMS, AND TEMPORARY PAVEMENT MARKINGS (IF NECESSARY). THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY SIGNS, AND PROVIDE TEMPORARY STRIPING (IF NECESSARY). THE CONTRACTOR SHALL ALSO PROVIDE ALL PLATING, TEMPORARY PAVEMENT AND TRAFFIC CONTROL MEASURES NECESSARY TO MAINTAIN TRAFFIC.

ALL COSTS FOR TRAFFIC MAINTENANCE SHALL BE INCIDENTAL TO THE CONTRACT.

MAINTENANCE OF TRAFFIC SHALL BE ONGOING THROUGH THE PROJECT, INCLUDING ALL PERIODS OF INACTIVITY BY THE CONTRACTOR, UNTIL FINAL ACCEPTANCE OF THE PROJECT.

OPEN EXCAVATIONS
ALL OPEN EXCAVATION SHALL BE PROPERLY DELINEATED FROM THE TRAVELED ROADWAY BY REFLECTIVE DRUMS. TRENCHES SHALL EITHER BE BACKFILLED OR COVERED FOR ANY EXTENDED PERIODS OF NO CONSTRUCTION.

MAINTENANCE OF EXISTING ROADWAY/DRIVEWAYS
THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE EXISTING ROADWAYS AND DRIVEWAYS IN GOOD CONDITION WITH RESPECT TO BOTH SAFETY AND SMOOTHNESS OF TRAVEL AS LONG AS IT IS NEEDED FOR MAINTENANCE OF TRAFFIC. THE COST OF ADDITIONAL WORK AND MATERIAL NECESSARY TO REPAIR AND MAINTAIN THE EXISTING ROADWAYS SHALL BE INCIDENTAL TO THE CONTRACT.

CONSTRUCTION SCHEDULE
IN DETAILING THE CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL PROVIDE THE LEAST POSSIBLE INCONVENIENCE TO THE PUBLIC DURING CONSTRUCTION.
WORK SHALL NOT PROCEED ON THE PROJECT UNTIL SUCH TIME AS THE SCHEDULE IS APPROVED BY BOTH THE VILLAGE AND THE ENGINEER.

CLEANING STREETS AND ROADWAYS:
BEFORE THE WORK HEREIN SPECIFIED IS ACCEPTED, THE CONTRACTOR SHALL, UPON NOTICE FROM THE ENGINEER, THOROUGHLY CLEAN ALL STREETS, ROADS, SIDEWALKS, DRIVEWAYS AND LAWNS FREE FROM ALL DEBRIS AND DIRT ACCUMULATING FROM CONSTRUCTION WORK, AND ON ALL IMPROVED STREETS AND ROADS, AND SHALL COMPLETELY SHAPE UP THE ENTIRE ROADWAY WITHIN THE LIMITS OF THE HEREIN SPECIFIED WORK.

THE CONTRACTOR WILL BE REQUIRED TO REMOVE DIRT ACCUMULATING FROM HIS OPERATIONS UPON THE SAID STREETS OR UPON INTERSECTING STREETS, LAWNS OR SIDEWALKS, AS OFTEN AS MAY BE ORDERED BY THE OWNER. WHEN THE WORK IS FINALLY COMPLETED AND BEFORE ITS FINAL ACCEPTANCE, THE CONTRACTOR UPON WRITTEN ORDER FROM THE OWNER SHALL THOROUGHLY CLEAN THE WHOLE OF SAID STREET OR STREETS TO THE SATISFACTION OF THE OWNER. NO EXTRA PAYMENT WILL BE MADE FOR THE WORK INVOLVED IN THE CLEANING OF THE PAVED OR UNPAVED STREETS, BUT THE COST OF THE SAME SHALL BE INCLUDED IN THE PRICES FOR THE VARIOUS ITEMS OF WORK TO BE DONE UNDER THIS CONTRACT.

SHOULD THE COMPLETION OF THE WORK OCCUR AT SUCH A TIME THAT THE FINAL SHAPING AND CLEANING OF THE STREETS WOULD COME IN THE WINTER MONTHS, THE CLEANING AND SHAPING, BY THE PERMISSION OF THE OWNER, WOULD BE POSTPONED UNTIL THE FOLLOWING SPRING AND THE AMOUNT SUFFICIENT TO DO THE WORK WILL BE RETAINED FROM THE MONEY DUE THE CONTRACTOR.

SHOULD THE CONTRACTOR FAIL TO SHAPE OR CLEAN THE STREETS WITHIN THE LIMITS OF THE HEREIN SPECIFIED WORK WITHIN SEVEN (7) DAYS AFTER RECEIPT OF WRITTEN NOTICE FROM THE ENGINEER TO DO SO, THE OWNER WILL HAVE THE RIGHT TO HAVE SAID WORK DONE AND THE COST THEREOF DEDUCTED FROM THE MONIES DUE TO THE CONTRACTOR.

NOISE CONTROL
CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS UNLESS APPROVED 48 HOURS IN ADVANCE BY THE VILLAGE.

GROUNDWATER
THE CONTRACTOR SHOULD ASSUME THAT SOME GROUNDWATER WILL BE PRESENT IN ALL EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE REMOVING AND DISPOSING OF GROUNDWATER THAT IS FREE OF SILT AND OTHER CONTAMINANTS OR SOLIDS.

CURB REPAIR
ANY CURB DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN FULL SECTIONS, FROM JOINT TO JOINT.

PIPING INFORMATION
1. PVC GRAVITY SEWER PIPE MUST MEET OR EXCEED SDR 35.
2. FORCE MAIN SHALL BE HDPE SDR 21.

GENERAL NOTES
1. COST OF TRIMMING OR CLEARING ANY TREES, BUSHES, ETC. SHALL BE INCIDENTAL TO THE OVERALL CONTRACT PRICE AND SHALL BE APPROVED BY THE VILLAGE AND THE PROPERTY OWNER.
2. WATERLINES CROSSING UNDER OR OVER SEWER LINES (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) MUST MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 18" AND ONE FULL LENGTH OF PIPE SHALL BE LOCATED SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

3. CONTRACTOR IS RESPONSIBLE FOR KEEPING FIELD NOTES THAT PROVIDE SUFFICIENT DATA FOR PREPARING "RECORD DRAWINGS" UPON COMPLETION OF CONSTRUCTION.

4. ALL MATERIAL FOR THE PROP. SEWER INSTALLATION INCLUDING ALL FITTINGS, PIPE RESTRAINTS, ETC., SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE.

5. COST OF ALL TRENCHING, PIPE RESTRAINT MATERIALS, AIR COCKS, PIPE BEDDING, BACKFILL, REMOVAL & REPLACEMENT OF LANDSCAPING/SIGNS SHALL BE PART OF THE COST OF INSTALLING SEWER.

YARD RESTORATION AND PAVEMENT, DRIVEWAY, CURB AND WALK RESTORATION SHALL BE PAID FOR UNDER SEPARATE BID ITEMS.

OTHER THAN THE YARD RESTORATION, ALL OTHER RESTORATION LISTED ABOVE SHALL BE LIMITED TO A 10 FOOT WIDTH ALONG THE SEWER TRENCH.

6. PRESSURE TESTING SHALL BE DONE AS PER THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, TAPS AND LABOR NECESSARY FOR CONDUCTING TESTING.

7. THE PROPOSED SEWER SHALL HAVE A HORIZONTAL SEPARATION OF AT LEAST 3'-0" (MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE) FROM ANY GAS MAIN.

8. A 10' MINIMUM LATERAL SEPARATION BETWEEN WATER MAINS AND SEWERS (DEFINED AS ANY SANITARY/COMBINED SEWER, SEPTIC TANK OR SUBSOIL TREATMENT SYSTEM) AND SEWER MANHOLES, MEASURED FROM THE OUTSIDE DIAMETER TO OUTSIDE, MUST BE MAINTAINED, UNLESS OTHERWISE INDICATED ON THE PLANS.

9. THE LOCATION OF UTILITIES SHOWN IN PROFILE IS APPROXIMATE AND BASED ON AN ASSUMED UNIFORM COVER. THE UTILITY LOCATION IN THE FIELD MAY VARY AS TO LOCATION AND DEPTH. THE CONTRACTOR SHALL BECOME FULLY RESPONSIBLE TO COORDINATE WITH ALL UTILITY OWNERS AND THEIR CONTRACTORS TO VERIFY THE LOCATION AND DEPTH OF THEIR UTILITY SERVICES. COST OF DOING SO SHALL BE INCIDENTAL TO OVERALL CONTRACT.

10. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. CONTRACTOR SHALL REMOVE OR PLUG ALL PIPE CONNECTIONS TO ANY NON-SANITARY CONDUITS LEFT IN PLACE WHICH ARE OPENED WHEN INSTALLING LATERALS OR NEW MAIN LINE AND LATERALS. CONTRACTOR SHALL ENSURE ALL SYSTEMS CONTINUE TO FUNCTION UNTIL PROPER TIE-INS CAN BE MADE.

THE CONTRACTOR SHALL PLUG ALL UPSTREAM ENDS OF EXISTING SANITARY CONNECTIONS LEFT IN PLACE WHICH ARE OPENED WHEN INSTALLING SEWERS OR REMOVING EXISTING MANHOLES.

11. THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO TO MAINTAIN AT ALL TIMES SANITARY SEWER FLOWS THROUGH EXISTING SEWERS TO REMAIN IN PLACE AND THROUGH EXISTING SEWERS TO BE REPLACED UNTIL NEW SEWERS ARE COMPLETED AND PLACED IN USE. PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE OWNER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE RELATED ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.

12. ALL WATERLINE, SANITARY SEWER, AND STORM SEWER PIPE SHALL BE INSTALLED UTILIZING APPROPRIATE BEDDING AND BACKFILL MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS AND WITH THE DETAILS PRESENTED WITHIN THE DRAWINGS. TRENCHES UNDER DRIVES, PAVEMENT AND WALKS OR WITHIN THE RIGHT-OF-WAY SHALL UTILIZE ODOT ITEM 304 AGGREGATE BASE AS BACKFILL TO SUBGRADE.

13. EXCAVATIONS WITHIN FIVE FEET OF STREETS, DRIVES, WALKS, PARKING AREAS AND OTHER ROADWAYS SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL CONFORMING TO ODOT ITEM 304 AGGREGATE BASE. ADDITIONAL GRANULAR MATERIAL SHALL BE STOCK-PILED AT SELECT LOCATIONS FOR USE WHEN SETTLEMENT OCCURS. ALL GRANULAR MATERIAL SHALL BE COMPACTED IN SIX (6) INCH LAYERS.

14. WHERE EXISTING PIPES ARE CALLED FOR ON THE DRAWINGS TO BE PLUGGED OR ABANDONED, THE CONTRACTOR SHALL INSTALL A CONCRETE OR VITRIFIED PLUG OR SHALL FILL THE END OF THE PIPE WITH CONCRETE AS DIRECTED BY THE ENGINEER. THE COST OF PLUGGING EXISTING PIPES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS PIPE ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

15. THE CONTRACTOR SHALL CONNECT OR REPAIR ANY DRAIN PIPE AFFECTED BY THE EXECUTION OF THIS CONTRACT. THE LOCATION, TYPE, SIZE AND GRADE OF THE REPLACEMENTS OR CONNECTIONS SHALL BE DETERMINED BY THE OWNER DURING CONSTRUCTION AND PAYMENT SHALL BE MADE BASED ON THE FINAL MEASUREMENT OF THE ACTUAL LENGTH OF PIPE USED. THE CONTRACTOR SHALL RESTORE ALL DRAINAGE TILE CROSSING NEW CONSTRUCTION TRENCHES WHICH ARE TO REMAIN.

16. ROCK EXCAVATION AND REMOVAL - THE COST OF ALL ROCK REMOVAL AND DISPOSAL SHALL BE PAID IN THE UNIT PRICE BID FOR ROCK EXCAVATION, CONTINGENCY, AS DIRECTED. BLASTING WILL NOT BE PERMITTED.

17. THE EXACT TOP OF CASTING ELEVATION SHALL BE DETERMINED IN THE FIELD BASED ON THE ELEVATIONS OF THE ADJACENT PAVEMENT AND THE SURROUNDING GROUND. TOP OF CASTING SHALL BE AT OR ABOVE GRADE.

18. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, OR CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE OWNER.

19. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL "RAINWATER AND LAND DEVELOPMENT". EROSION CONTROL MEASURES UTILIZED ON THIS PROJECT SHALL BE BASED UPON THE BEST MANAGEMENT PRACTICES OUTLINED IN THE "RAINWATER AND LAND DEVELOPMENT MANUAL", CURRENT EDITION, AS PREPARED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES.

20. ALL ELEVATIONS ARE BASED ON THE U.S.G.S. 1988 DATUM.

21. FORCE MAINS SHALL BE INSTALLED WITH A MINIMUM OF 4'-6" OF COVER FROM FINISHED GRADE TO THE TOP OF THE FORCE MAIN.UNLESS OTHERWISE APPROVED BY THE ENGINEER, FORCE MAINS SHALL BE DEFLECTED WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING THE MANUFACTURER'S ALLOWABLE DEFLECTION. ALL FITTINGS SHALL BE DUCTILE IRON WITH MECHANICAL JOINTS UNLESS OTHERWISE NOTED. ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND DETAILS.

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DRAWN BY:	DSS
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

GENERAL NOTES

PROJECT NO.
210164

DISCIPLINE
GENERAL

SHEET NAME
GEN-NOTES

SHEET 2 OF 13

EXISTING PLAN LINETYPES:

- RIGHT-OF-WAY
- PROPERTY LINE
- BUILDING OUTLINES
- FENCE - GENERAL
- FENCE - CHAIN LINK
- FENCE - WOOD
- CONTOURS - MAJOR (650)
- CONTOURS - MINOR (648)
- PAVEMENT - GENERAL
- WALK
- BRUSH LINE
- BUSH LINE
- TREE LINE
- CATV LINE
- COMM LINE
- ELECTRIC LINE
- ELECTRIC LINE - OH
- ELECTRIC LINE - UG
- ELECTRIC SERVICE
- FOC LINE
- GAS LINE
- GAS SERVICE
- UTILITY LINE
- SANITARY SERVICE
- STORM LINE
- STORM UNDERDRAIN
- TEL LINE - OH
- TEL LINE - UG
- TRAFFIC LINE
- WATER LINE
- WATER SERVICE

SITE SYMBOLOGY:

EX:	PR:	
	TC	TOP OF CASTING
		BENCH MARK
		NAIL - MAG
		PIN - IRON
CB	CB	ELECTRIC CONTROL BOX
JB	JB	ELECTRIC JUNCTION BOX
PB	PB	ELECTRIC PULL BOX
TP	TP	TELEPHONE PEDESTAL
GM	GM	GAS METER
GVGV	GV	GAS VALVE W/TEXT
		POLE - POWER / LIGHT
		POLE - POWER / TELEPHONE
		POLE - POWER / TEL / CABLE
		POLE - GUY
		POLE - LIGHT
		POLE - TELEPHONE
		SANITARY MANHOLE - 48"
		SANITARY MANHOLE - 72"
00	00	SANITARY STRUCTURE NO.
		CATCH BASIN - 2X2
		STORM DRAIN
		STORM MANHOLE - 48"
		STORM MANHOLE - 48" INLET
		WATER HYDRANT, FIRE
		WATER HYDRANT, FLUSH
WM	WM	WATER METER
WM	WM	WATER METER PIT
		WATER VALVE

PROPOSED PLAN LINETYPES:

- CENTERLINE
- EASEMENT LINE
- WORK LIMITS
- CONSTRUCTION FENCE (CF)
- SILT FENCE (SF)
- FILTER FENCE (TRANS) (FF)
- ELECTRIC LINE (ELEC)
- ELEC SERVICE (ELEC)
- SANITARY LINE (SAN)
- SANITARY FORCE MAIN (FM)
- SANITARY SERVICE (SS)

SANITARY STRUCTURE TABLE

STRUCTURE NAME:	NORTHING (PER PLAN)	EASTING (PER PLAN)	NORTHING (ASBUILT)	EASTING (ASBUILT)
S9	282250.26	1659442.59		
S10	282120.78	1659228.77		
S11	281912.04	1658887.55		
S12	281704.21	1658545.78		
S13	281528.48	1658256.71		

HALE DRIVE SANITARY LINE

Sheet List Table

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DRAWN BY:	DSS
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VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

LEGEND & TABLES

PROJECT NO.
210164

DISCIPLINE
GENERAL

SHEET NAME
LGN-TBLS

SHEET 3 OF 13

NOT TO SCALE

LEGEND:

(XX) PARCEL NUMBER

BID SET

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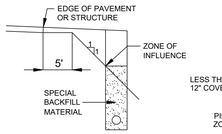
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

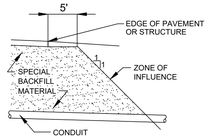
AREA PLAN - STATE ROUTE 41

PROJECT NO.	210164
DISCIPLINE	CIVIL
SHEET NAME	AR-PLN 3
SHEET	4
OF	13

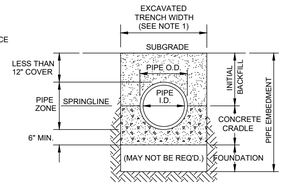
H:\2021\210164\DWG\SHEETS\SR 41 SEWER EXTENSION AT HALE DRIVE\C_210164 - AREA PLAN - HALE.DWG - SR41 - 3/31/2025 12:12:06 PM - ADAM DAWSON



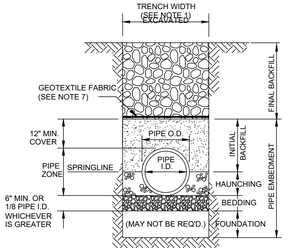
PARALLEL
ZONE OF INFLUENCE



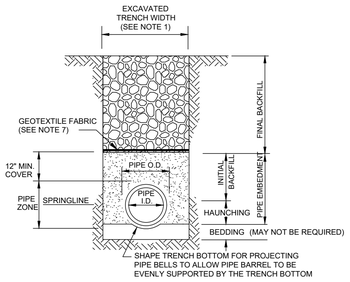
TRANSVERSE
ZONE OF INFLUENCE



CLASS `A` PIPE EMBEDMENT



CLASS `B` PIPE EMBEDMENT



CLASS `C` PIPE EMBEDMENT

NOTES:

1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.

2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.

3. PIPE EMBEDMENT:
   CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

   CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

   CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.

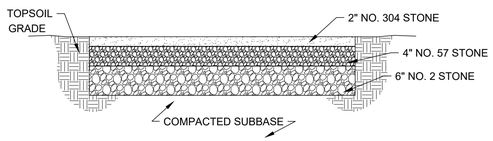
5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 310000CT - EARTHWORK.

6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.

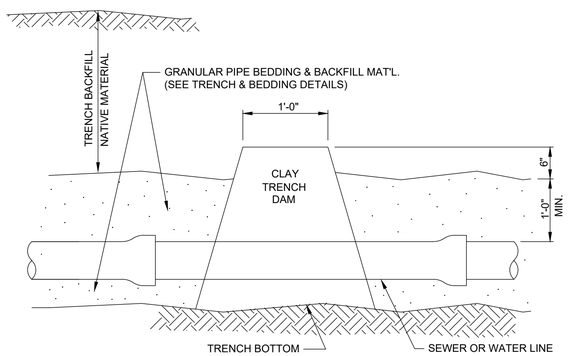
7. GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.

8. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

TRENCHING, EMBEDMENT AND BACKFILL DETAIL
NOT TO SCALE



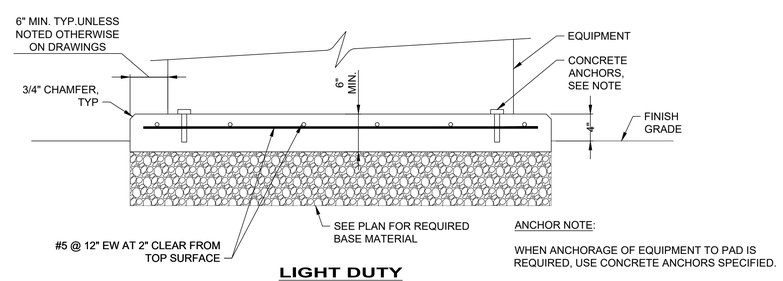
GRAVEL PAVEMENT DETAIL
NOT TO SCALE



TRENCH DAM DETAIL
NOT TO SCALE

NOTE:

1. FULL-DEPTH CLAY DAMS ARE TO BE INSTALLED ON SANITARY SEWER LINES AT MINIMUM INTERVALS OF 150' AND WITH A MINIMUM OF ONE DAM BETWEEN EACH PAIR OF MANHOLES.



LIGHT DUTY

ANCHOR NOTE:

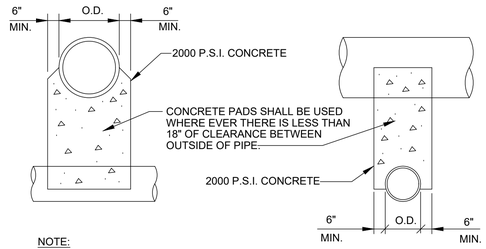
WHEN ANCHORAGE OF EQUIPMENT TO PAD IS REQUIRED, USE CONCRETE ANCHORS SPECIFIED.

NOTES:

1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE DRAWINGS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER AND AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE OR OTHER ACCEPTABLE MEANS, MATCHING THE BASE PLATE, WHILE PAD IS BEING PLACED.
3. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE MINIMUM ANCHOR BOLT MOVEMENT OF 1/2" IN ALL HORIZONTAL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT AFTER BOLTS ARE ALIGNED.
5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS INDICATED OTHERWISE.
6. WEDGES, SHIMS, OR LEVELING NUTS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. WEDGES OR SHIMS THAT ARE LEFT IN PLACE SHALL NOT BE EXPOSED TO VIEW.
7. HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE TYPE "B" EQUIPMENT PAD WITH BLOCKOUT,
8. AT CONTRACTORS OPTION, CONCRETE ANCHORS MAY BE USED IN LIEU OF CAST-IN-PLACE ANCHOR BOLTS FOR EQUIPMENT ANCHOR BOLTS LESS THAN 3/4" DIAMETER WHEN APPROVED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER. ANCHORS SHALL BE INSTALLED WITH 4" MINIMUM EDGE DISTANCE IN EACH DIRECTION.
9. PAD SURFACE SHALL BE BEVELED SO THAT WATER DOES NOT POOL UNDER EQUIPMENT.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24

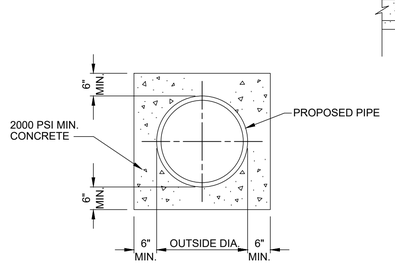
CONCRETE EQUIPMENT PAD
NOT TO SCALE



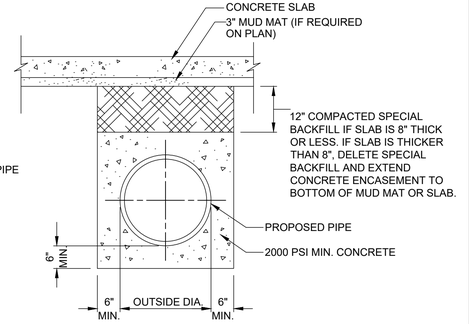
NOTE:

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, WHERE TWO PIPES (SEWER & WATER) CROSS EACH OTHER, A CONCRETE PAD AND CRADLE SEPERATOR SHALL BE PLACED BETWEEN THEM AS INDICATED ABOVE. WHERE PERMISSION IS GRANTED TO OMIT THE CONCRETE PADS, GRANULAR BACKFILL SHALL BE TAMPED IN 6" LAYERS AROUND BOTH PIPES. SUCH TAMPED BACKFILL SHALL BE CONTINUOUS FROM THE CRADLE OF THE LOWER PIPE TO THE TOP OF THE UPPER PIPE AND AT THE BOTTOM SHALL EXTEND IN BOTH DIRECTIONS, FOR THE FULL WIDTH OF THE TRENCH.

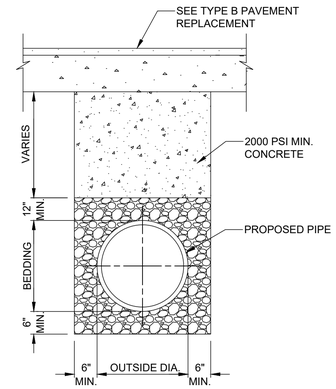
PIPE CROSSING DETAIL
NOT TO SCALE



TYPICAL PIPE ENCASEMENT
NOT TO SCALE



TYPICAL PIPE ENCASEMENT UNDER STRUCTURES
NOT TO SCALE



TYPICAL PIPE ENCASEMENT UNDER STATE ROUTE
NOT TO SCALE

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VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

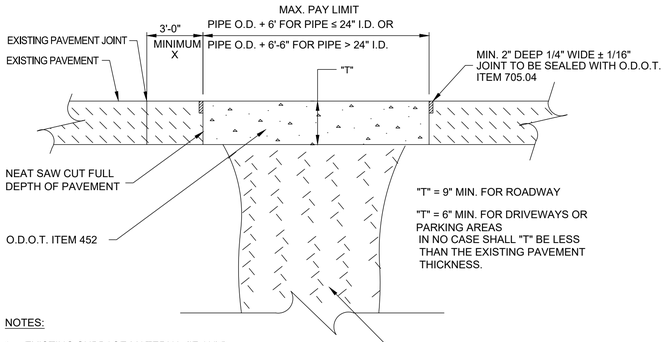
CONSTRUCTION DETAILS - 1

PROJECT NO.
210164

DISCIPLINE
CIVIL

SHEET NAME
CONSTDET - 1

SHEET 5 OF 13



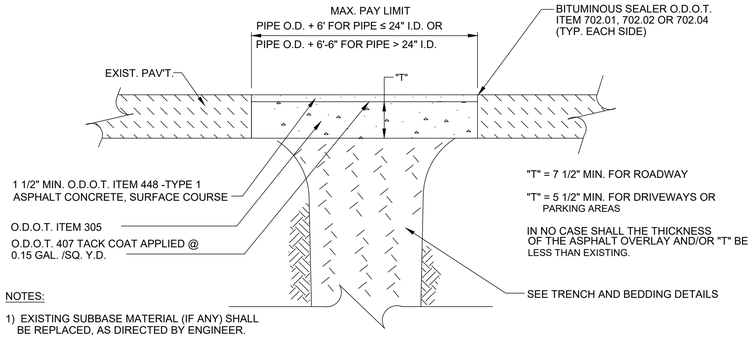
NOTES:

1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
2. REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
3. 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

X WHERE WIDTH IS LESS THAN 3'-0" OR EXISTING PAVEMENT IS DETERIORATED, THE CONTRACTOR SHALL REPLACE ADDITIONAL PAVEMENT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADDITIONAL PAVEMENT REPLACEMENT AS DIRECTED BY THE ENGINEER SHALL BE AT THE SAME UNIT PRICE BID.

TYPE A PAVEMENT REPLACEMENT (CONCRETE)

NOT TO SCALE

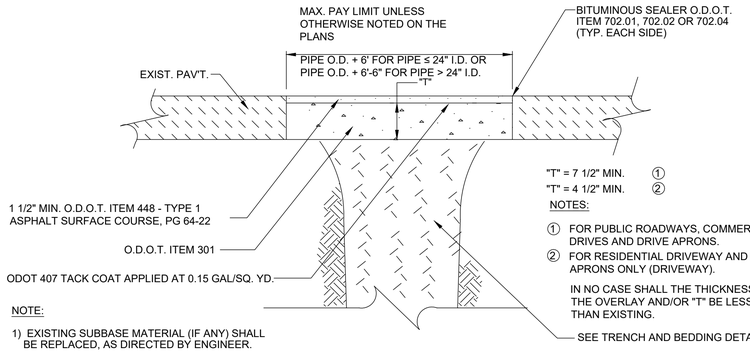


NOTES:

1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
2) REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
3) 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

TYPE B PAVEMENT REPLACEMENT (ASPHALT OVER CONCRETE)

NOT TO SCALE



NOTE:

1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

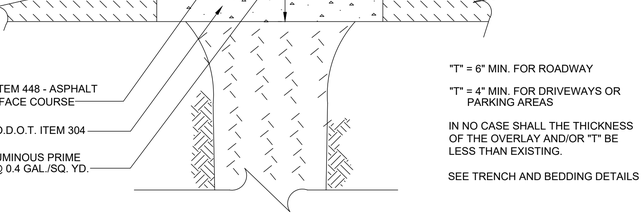
NOTES:

① FOR PUBLIC ROADWAYS, COMMERCIAL DRIVES AND DRIVE APRONS.
② FOR RESIDENTIAL DRIVEWAY AND DRIVE APRONS ONLY (DRIVEWAY).

IN NO CASE SHALL THE THICKNESS OF THE OVERLAY AND/OR "T" BE LESS THAN EXISTING.

TYPE C PAVEMENT REPLACEMENT (ASPHALT)

NOT TO SCALE

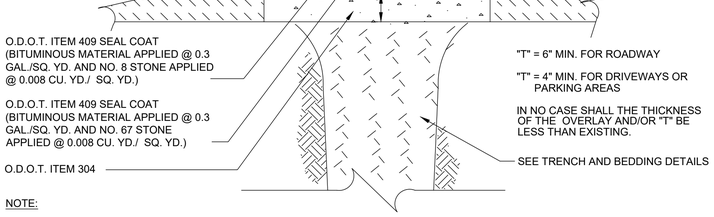


NOTE:

1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

TYPE D PAVEMENT REPLACEMENT (ASPHALT OVER STONE BASE)

NOT TO SCALE

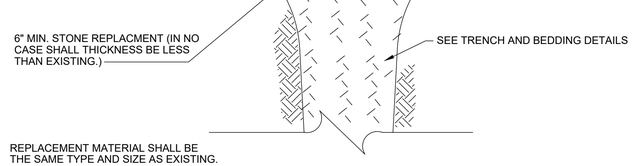


NOTE:

1) EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

TYPE E PAVEMENT REPLACEMENT (SEAL COAT OVER STONE BASE)

NOT TO SCALE



TYPE F PAVEMENT REPLACEMENT (STONE)

NOT TO SCALE

BID SET

verdantas

NO	REVISION	DATE

ISSUED FOR:	BIDDING
ISSUE DATE:	4/1/2025
SCALE:	AS NOTED
DESIGNED BY:	DSS
DRAWN BY:	DSS
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

CONSTRUCTION DETAILS - 2

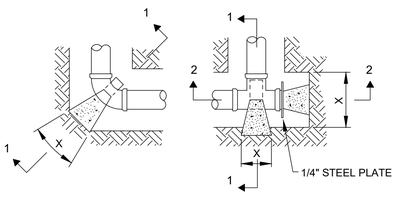
PROJECT NO.
210164

DISCIPLINE
CIVIL

SHEET NAME
CONSTDET - 2

SHEET 6 OF 13

SIZING SCHEDULE	BEARING FACE (X Y) IN SQ. FT. / CONCRETE VOLUME IN CU. YD.					
PIPE SIZE	22 1/2° BEND SOIL BEARING CAPACITY			45° BEND SOIL BEARING CAPACITY		
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.
4	1.40 / 0.14	0.46 / 0.09	0.26 / 0.06	2.70 / 0.12	0.90 / 0.06	0.54 / 0.06
6	2.80 / 1.15	0.93 / 0.10	0.56 / 0.07	5.50 / 0.15	1.83 / 0.10	1.10 / 0.07
8	4.80 / 0.20	1.60 / 0.13	0.96 / 0.09	9.60 / 0.23	3.20 / 0.15	1.92 / 0.09
10	7.90 / 0.53	2.63 / 0.34	1.96 / 0.22	15.70 / 0.34	5.23 / 0.20	3.14 / 0.13
12	11.30 / 0.62	3.76 / 0.40	2.26 / 0.26	22.30 / 0.75	7.43 / 0.49	4.46 / 0.32
14	15.30 / 0.74	5.10 / 0.48	3.06 / 0.31	30.20 / 0.98	10.06 / 0.64	6.04 / 0.42
16	19.80 / 1.17	6.60 / 0.76	3.96 / 0.49	39.10 / 1.21	13.03 / 0.79	7.82 / 0.51
	90° BEND SOIL BEARING CAPACITY			TEE OR DEAD END SOIL BEARING CAPACITY		
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.
4	4.90 / 0.14	1.63 / 0.09	0.96 / 0.06	3.50 / 0.12	1.16 / 0.06	0.70 / 0.06
6	10.20 / 0.22	3.40 / 0.14	2.04 / 0.09	7.20 / 0.17	2.40 / 0.11	1.44 / 0.07
8	17.70 / 0.35	5.54 / 0.23	3.54 / 0.15	12.50 / 0.25	4.16 / 0.16	2.50 / 0.14
10	28.90 / 0.54	9.60 / 0.35	5.76 / 0.23	20.40 / 0.38	6.80 / 0.25	4.06 / 0.16
12	41.10 / 1.31	13.70 / 0.85	8.22 / 0.55	29.10 / 0.97	9.70 / 0.63	5.82 / 0.42
14	55.80 / 1.70	18.60 / 1.11	11.16 / 0.72	39.50 / 1.22	13.16 / 0.79	7.90 / 0.51
16	72.20 / 2.14	24.06 / 1.39	14.44 / 0.90	51.10 / 1.54	17.03 / 1.00	10.22 / 0.65



ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

THRUST BLOCKING DETAIL

NOT TO SCALE

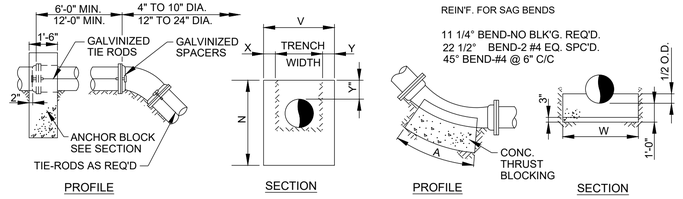


TABLE OF DIMENSINS - OVER BENDS

PIPE SIZE	11 1/4°, 22 1/2°, & 45° BENDS					TIE RODS NO. & SIZE
	X	V	Y	N	C.Y.	
4"	1'-0"	4'-3"	1'-0"	2'-4"	.55	2-3/4" DIA.
6"	1'-0"	4'-6"	1'-0"	2'-6"	.61	2-3/4" DIA.
8"	1'-0"	4'-8"	1'-0"	2'-8"	.67	2-3/4" DIA.
10"	1'-0"	4'-10"	1'-0"	2'-10"	.72	4-3/4" DIA.
12"	1'-0"	5'-0"	1'-0"	3'-0"	.78	4-3/4" DIA.
14"	1'-0"	5'-2"	1'-0"	3'-3"	.87	6-3/4" DIA.
16"	1'-0"	5'-4"	1'-0"	4'-4"	1.09	8-3/4" DIA.
18"	1'-0"	5'-6"	1'-0"	4'-7"	1.34	8-3/4" DIA.

TABEL OF DIMENSIONS - SAG BENDS

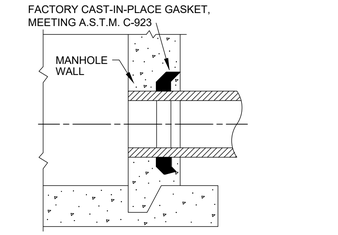
PIPE SIZE	22 1/2° BEND			45° BEND		
	A	W	C.Y.	A	W	C.Y.
4"	—	—	—	—	—	—
6"	—	—	—	O'-8"	1'-8"	0.05
8"	0'-8"	1'-4"	0.04	0'-9"	2'-8"	0.10
10"	0'-8"	2'-0"	0.06	1'-2"	2'-10"	0.16
12"	0'-8"	2'-4"	0.08	1'-7"	3'-0"	0.24
14"	0'-8"	2'-9"	0.09	1'-8"	3'-2"	0.28
16"	0'-9"	3'-4"	0.14	2'-3"	3'-4"	0.41
18"	1'-0"	3'-6"	0.20	2'-9"	3'-6"	0.54

NOTES:

1. TABLE PORTION FOR NO. AND SIZE OF TIE RODS IS APPLICABLE TO ALL TIE-IN PIPING REQUIRING SUCH REINFORCEMENT.
2. USE OF ANCHOR BLOCKS AND OR THRUST BLOCKS NEEDED ONLY IF A TIE-RODDED EXTENSION PIECE EQUALS OR EXCEEDS A STANDARD PIPE LENGTH.
3. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE OF WATER HAMMER AND SOIL BEARING AT 3000 P.S.I.

OVER & SAG BEND THRUST BLOCKING DETAILS

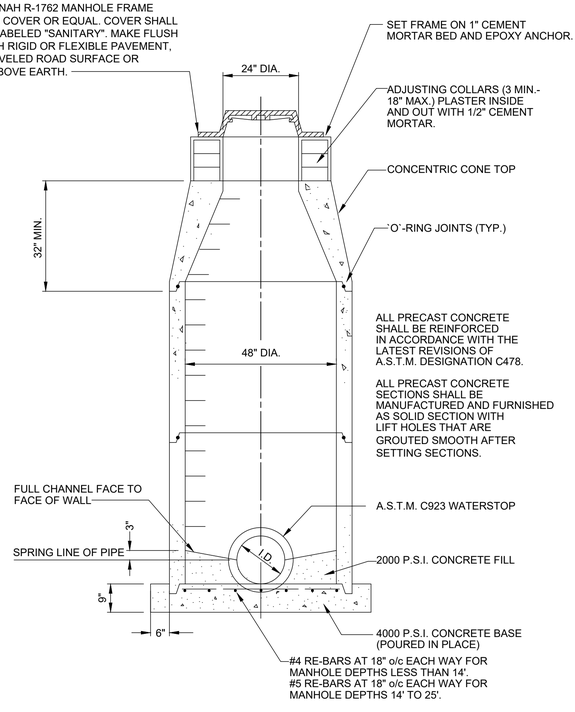
NOT TO SCALE



PRE-CAST FLEXIBLE GASKET DETAIL

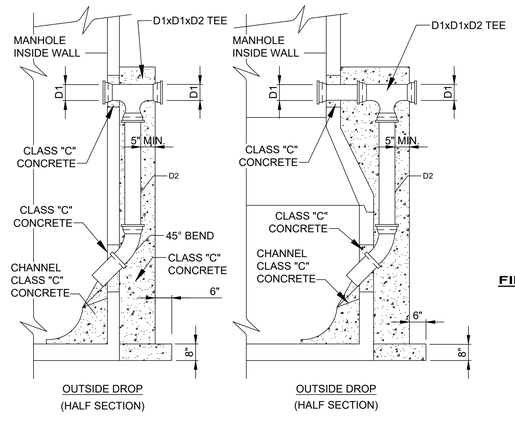
NOT TO SCALE

NEENAH R-1762 MANHOLE FRAME AND COVER OR EQUAL. COVER SHALL BE LABELED "SANITARY". MAKE FLUSH WITH RIGID OR FLEXIBLE PAVEMENT, TRAVELED ROAD SURFACE OR 3" ABOVE EARTH.



STANDARD TYPE "A" CONCENTRIC MANHOLE (24" I.D. OR LESS)

NOT TO SCALE



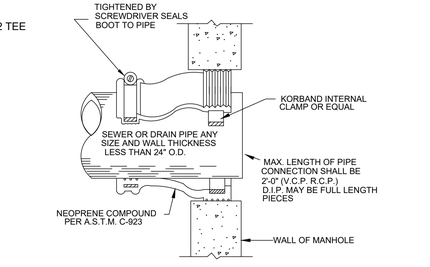
NOTES

1. DROP IS REQUIRED WHEN INVERT DIFFERENTIAL IS 24 INCHES OR GREATER.
2. HEIGHT OF DROP PIPE IS TO BE AS SHOWN ON THE DRAWINGS OR WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
3. ALL WORK AND MATERIALS REQUIRED TO CONSTRUCT THE DROP SHOULD BE INCLUDED FOR PAYMENT UNDER THE PAY ITEMS ESTABLISHED FOR MANHOLES, AND/OR PIPE SEWERS COMPLETE IN PLACE.
4. MATERIALS FOR THE TEE, DROP PIPE AND BEND SHALL BE C.I., DIP, OR PVC.
5. PIPE REQUIRE A 5" THICK (MINIMUM) CLASS "C" CONCRETE ENCASEMENT ON THREE SIDES OF PIPE AND TIED TO MANHOLE WALL WITH 5/8"-"U" RODS X 6" LONG @ 12".

PIPE DIAMETER	
D1	D2
8"	8"
10"	8"
12"	8"
15"	10"
18"	10"
21"	12"
24"	12"

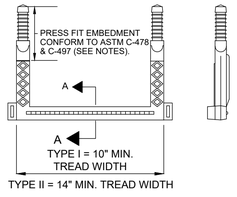
OUTSIDE DROP PIPE FOR MANHOLES

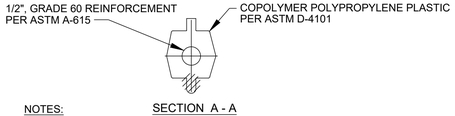
NOT TO SCALE



FIELD CORE-DRILLED FLEXIBLE GASKET DETAIL

NOT TO SCALE





NOTES:

1.) USE TYPE I STEP FOR MANHOLES OR CIRCULAR STRUCTURES OF 5'-0" DIA. OR LESS - USE 16" C/C SPACING.

2.) USE TYPE II STEP FOR FLAT WALL STRUCTURES SUCH AS VAULTS, WELLS, ETC. OR CIRCULAR STRUCTURES OVER 5'-0" DIA. - USE 12" C/C SPACING.

3.) MOUNTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH MFR'S RECOMMENDATIONS.

TYPICAL MANHOLE STEP DETAIL

NOT TO SCALE

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VILLAGE OF WEST UNION
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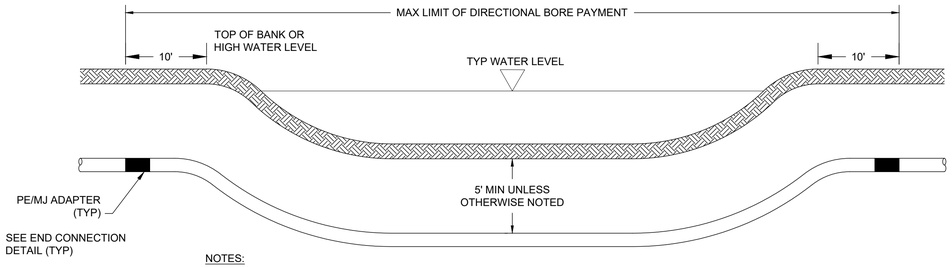
CONSTRUCTION DETAILS - 3

PROJECT NO.
210164

DISCIPLINE
CIVIL

SHEET NAME
CONSTDET - 3

SHEET 7 OF 13

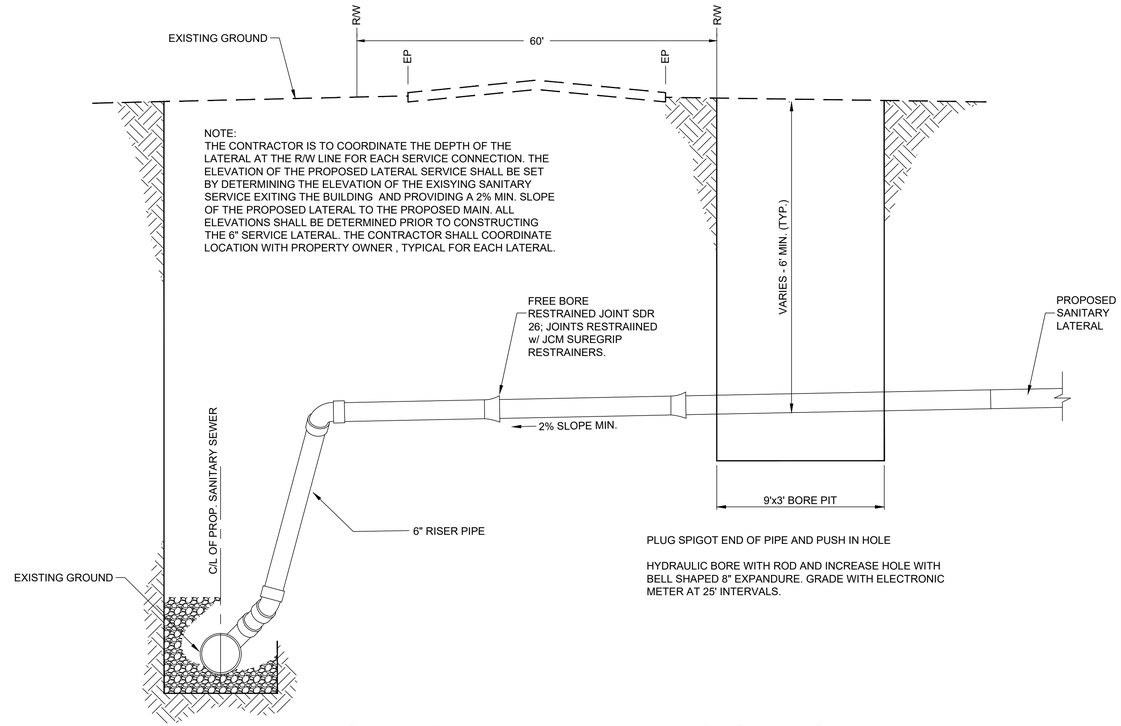


NOTES:

1. WHERE DIRECTIONAL BORE INCORPORATES RESTRAINED JOINT PVC PIPE, OMIT PE/MJ ADAPTER.
2. DIRECTIONAL BORE SHALL INCORPORATE TWO INSULATED NO 12 GAUGE, SOLID, COPPER WIRES INSTALLED WITH THE PIPE FOR LOCATING PURPOSES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HORIZONTAL DIRECTIONAL DRILLING @ STREAM/CREEK CROSSING

NOT TO SCALE



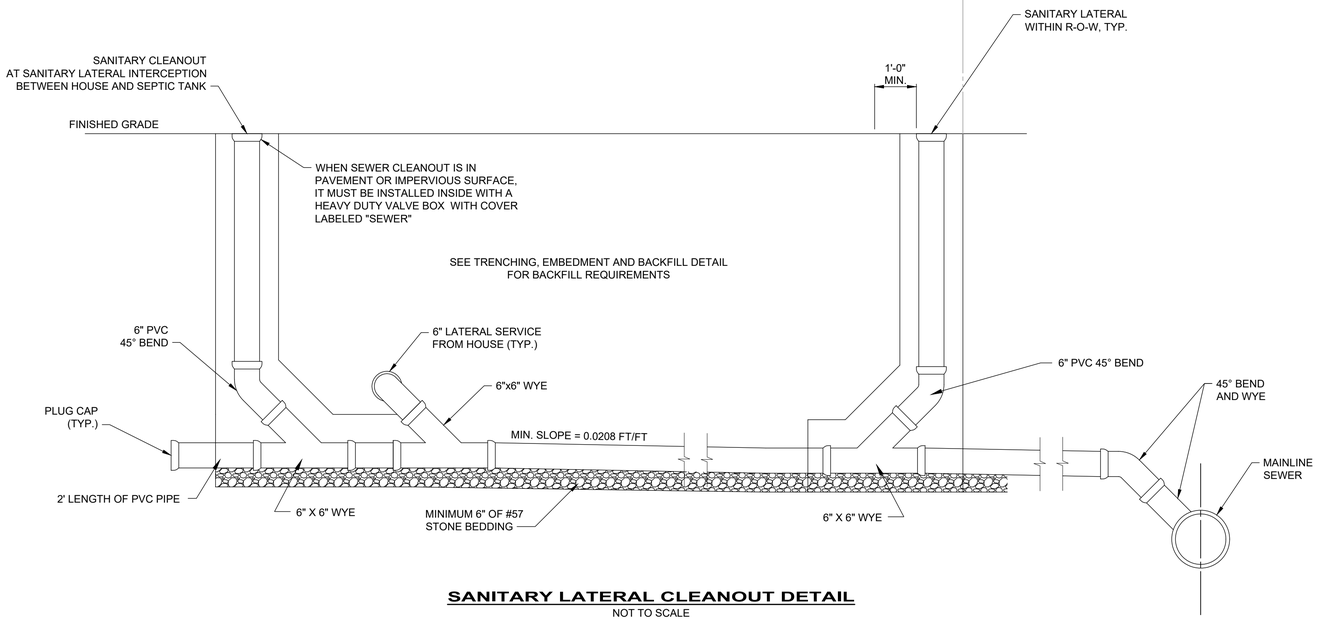
NOTE:
THE CONTRACTOR IS TO COORDINATE THE DEPTH OF THE LATERAL AT THE R/W LINE FOR EACH SERVICE CONNECTION. THE ELEVATION OF THE PROPOSED LATERAL SERVICE SHALL BE SET BY DETERMINING THE ELEVATION OF THE EXISYING SANITARY SERVICE EXITING THE BUILDING AND PROVIDING A 2% MIN. SLOPE OF THE PROPOSED LATERAL TO THE PROPOSED MAIN. ALL ELEVATIONS SHALL BE DETERMINED PRIOR TO CONSTRUCTING THE 6" SERVICE LATERAL. THE CONTRACTOR SHALL COORDINATE LOCATION WITH PROPERTY OWNER , TYPICAL FOR EACH LATERAL.

PLUG SPIGOT END OF PIPE AND PUSH IN HOLE

HYDRAULIC BORE WITH ROD AND INCREASE HOLE WITH BELL SHAPED 8" EXPANDURE. GRADE WITH ELECTRONIC METER AT 25' INTERVALS.

SANITARY LATERAL DETAIL - DIRECTIONAL BORE

NOT TO SCALE



SANITARY LATERAL CLEANOUT DETAIL

NOT TO SCALE

NOTES:

1. CONCRETE ENCASEMENT AND BLOCKING REQUIRED IF DEPTH OF CONNECTION IS 12" OR GREATER.
2. EACH SANITARY LATERAL MUST BE IN SEPARATE TRENCHES
3. FOR CLEANOUTS THAT TERMINATE IN PAVED AREAS, A FRAME AND COVER SHALL BE USED IN ADDITION TO MANUFACTURES CAP/PLUG
4. INSTALLATIONS BY CONTRACTOR BEYOND THE PROPERTY LINE WILL REQUIRE AN INSPECTION FROM THE OWNER OR ENGINEER. DO NOT BACKFILL TRENCH PRIOR TO INSPECTION.

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VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

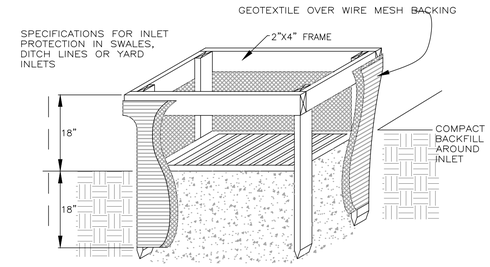
CONSTRUCTION DETAILS - 4

PROJECT NO.
210164

DISCIPLINE
CIVIL

SHEET NAME
CONSTDET - 4

SHEET 8 OF 13

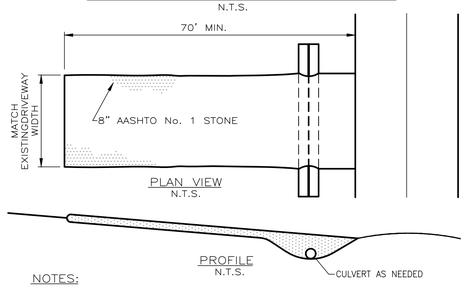


SPECIFICATIONS FOR INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2–BY–4–INCH CONSTRUCTION–GRADE LUMBER. THE 2–BY–4–INCH POSTS SHALL BE DRIVEN 18 INCHES INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2–BY–4–INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD 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 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.

INLET PROTECTION

N.T.S.



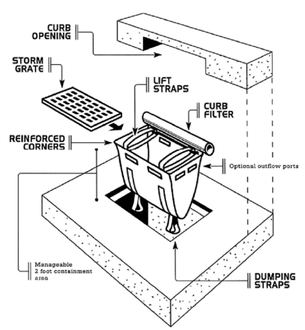
NOTES:

1. 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.
2. MAINTENANCE – TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. 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. BEDDING – A GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.

ROCK CONSTRUCTION ENTRANCE

N.T.S.

DANDY CURB SACK™



SILT SACK

SILT FENCE SPECIFICATIONS

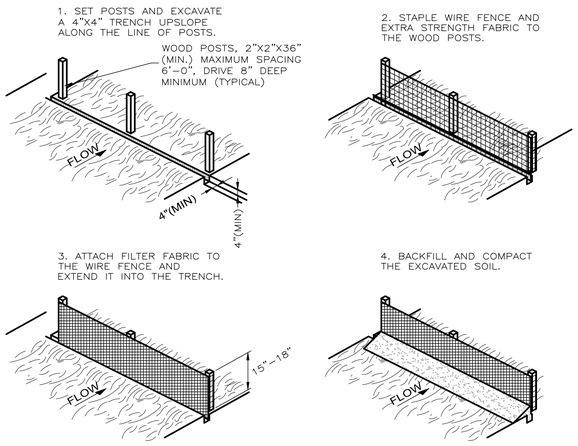
1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES AND DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
4. WHERE AVAILABLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
7. THE SILT FENCE SHALL BE PLACED IN A TRENCH A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE MACHINE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE SO THAT 8 INCHES OF THE CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 4 INCH DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
10. MAINTENANCE – SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE:
1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS

1. FENCE POSTS– THE LENGTH SHALL BE A MINIMUM OF 36" LONG. WOOD POSTS SHALL BE 2"X2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 6 FEET.

2. SILT FENCE SHALL BE ODOT TYPE C GEOTEXTILE FABRIC OR AS DESCRIBED BY THE CHART BELOW:

FABRIC PROPERTIES	
MAXIMUM TENSILE STRENGTH.	.120 lbs.
MAXIMUM ELONGATION AT 60 lbs.	50%
MAXIMUM PUNCTURE STRENGTH.	.50 lbs.
MINIMUM TEAR STRENGTH.	.40 lbs.
MINIMUM BURST STRENGTH.	.200 psi.
APPARENT OPENING SIZE.	≤ 0.84 mm
MINIMUM PERMITTIVITY.	.1x10 sec.
ULTRAVIOLET EXPOSURE STRENGTH RETENTION.	70%



TYPICAL DRAINAGE BARRIER SEDIMENT FENCE DETAIL

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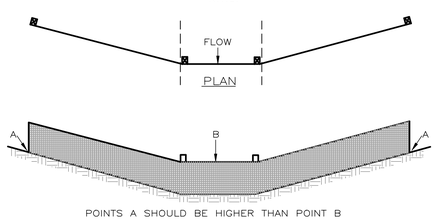

POINTS A SHOULD BE HIGHER THAN POINT B

SECTION

PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

MAINTENANCE NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED BY THE OWNER'S REPRESENTATIVE WEEKLY AND WITHIN 24 HOURS AFTER EACH RAINFALL TO ASSURE THAT THE MEASURES ARE FUNCTIONING ADEQUATELY. SEDIMENT THAT IS COLLECTED WILL BE DISTRIBUTED ON THE PROTECTED PORTION OF THE SITE AND STABILIZED. ALL STOCKPILES OF EARTH AND TOPSOIL WILL BE PROTECTED WITH TEMPORARY SEEDING OR OTHER MEANS TO PREVENT EROSION.

CONSTRUCTION ROAD STABILIZATION / CONSTRUCTION ENTRANCES (CRS)
BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

SILT FENCE (SF)
SILT FENCE AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NEEDED, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE–HALF OF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN–PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

DIVERSION (D)
BARE AND VEGETATED DIVERSION CHANNELS SHOULD BE INSPECTED REGULARLY TO CHECK FOR POINTS OF SCOUR OR BANK FAILURE; RUBBISH OR CHANNEL OBSTRUCTION; RODENT HOLES, BREACHING OR SETTLING OF THE RIDGE; EXCESSIVE WEAR FROM PEDESTRIAN OR CONSTRUCTION TRAFFIC. REPAIR DAMAGE AND REMOVE DEPOSITS OR SEDIMENT FROM THE DIVERSION CHANNEL AND VEGETATIVE FILTER STRIP. RESEEDING AND FERTILIZING SHOULD BE DONE AS NEEDED.

TABLE 1: PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A STREAM 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

TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED

CONSTRUCTION NOTES

1. THE OWNER WILL PROVIDE ON–SITE PLACE FOR EXCESS DIRT PERMANENT DISPOSAL.
2. ALL CONCRETE DEBRIS SHALL BE BROKEN DOWN TO MANAGEABLE PIECES FOR ON–SITE DISPOSAL PER OWNER DIRECTIONS.

ENVIRONMENTAL PROTECTION NOTES

EROSION AND SEDIMENTATION CONTROL PRACTICES MUST BE INSTALLED TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS FOR PARTICULAR TECHNIQUES. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

PROPERLY INSTALLED SEDIMENT CONTROL BARRIERS (E.G., SILT FENCES, STRAW BALES, ETC.) MUST 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, (INCLUDING SEDIMENT BASINS AND DIVERSION CHANNELS), MUST BE IN PLACE PRIOR TO STARTING CONSTRUCTION.

STAGING AREAS MUST NOT BE SITED IN LOCATIONS THAT REQUIRE EXCESSIVE CLEARING OR THAT ARE CLOSE TO STREAM BANKS, WETLANDS OR OTHER WATER RESOURCES. IF THIS SITUATION IS UNAVOIDABLE, APPROVAL OF THE STAGING AREA BY OHIO EPA, DIVISION OF ENVIRONMENTAL AND FINANCIAL ASSISTANCE IF NECESSARY.

EXISTING TOPSOIL THAT IS TO BE REUSED MUST BE STOCKPILED AND REPLACED UPON FINAL GRADING. STOCKPILED TOPSOIL MUST BE PROTECTED WITH SILT BARRIERS AND TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.

AS CONSTRUCTION IS COMPLETED, PERMANENT STABILIZE EACH DISTRIBUTED AREA WITH PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30 DAYS, ALL DISTURBED AREAS MUST BE TEMPORARILY SEEDED AND/OR MULCHED IMMEDIATELY.

ALL MATERIALS TO BE DISPOSED OF OFF–SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED. GIVING EXCAVATED SOIL AWAY DOES NOT RELIEVE THE CONTRACTOR OR ENGINEERS OF THIS RESPONSIBILITY.

SHOULD ANY OF THE ABOVE ENVIRONMENTAL PROTECTION NOTES BE IN CONFLICT WITH ANY OTHERS NOTES LISTED, THE ENVIRONMENTAL PROTECTION NOTES ARE TO TAKE PRECEDENCE.

GENERAL LAND CONSERVATION NOTES

PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO THE DISTURBED AREAS ACCORDING TO TABLE 1 AND/OR TABLE 2 AFTER FINAL/ROUGH GRADE IS REACHED ON ANY PORTION OF THE SITE.

ALL STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN GRADING FOR ALL SITES.

ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND SERVICE TRENCHES SHALL BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER BACKFILL, IF INSTALLATION IS THROUGH STABILIZED AREAS.

ALL TEMPORARY DIVERSIONS, SEDIMENT BASIN EMBANKMENTS AND EARTH STOCKPILES SHALL BE SEEDED AND MULCHED FOR TEMPORARY VEGETATIVE COVER WITHIN 7 DAYS AFTER GRADING. STRAW, HAY MULCH OR EQUIVALENT IS REQUIRED.

ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS (INLET PROTECTION) WHICH WILL BE MAINTAINED AND MODIFIED AS REQUIRED AS CONSTRUCTION PROGRESSES. SEDIMENT TRAPS ARE TO BE REMOVED AFTER SEEDING AND MULCHING IS ESTABLISHED.

ANY DISTURBED AREA NOT STABILIZED WITH SEEDING, SODDING, PAVING OR BUILT ON BY NOVEMBER 1ST, OR AREAS DISTURBED AFTER THAT DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW AT THE RATE OF 2 TONS PER ACRE AND OVER–SEEDED BY APRIL 15TH.

AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUDED AREAS SHALL BE STABILIZED.

ADDITIONAL EROSION AND SEDIMENTATION CONTROL MANAGEMENT PRACTICES MAY BE REQUIRED DUE TO UNFORESEEN CONDITIONS. THESE ADDITIONAL ITEMS SHALL BE INSTALLED AS DIRECTED BY THE VILLAGE OF WEST UNION ENGINEER.

BID SET

verdantas

NO	REVISION	DATE

ISSUED FOR:	BIDDING
ISSUE DATE:	4/1/2025
SCALE:	AS NOTED
DESIGNED BY:	DSS
DRAWN BY:	DSS
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

SEDIMENT & EROSION CONTROL DETAILS

PROJECT NO.
210164

DISCIPLINE
CIVIL

SHEET NAME
SEC-DET

SHEET 9 OF 13

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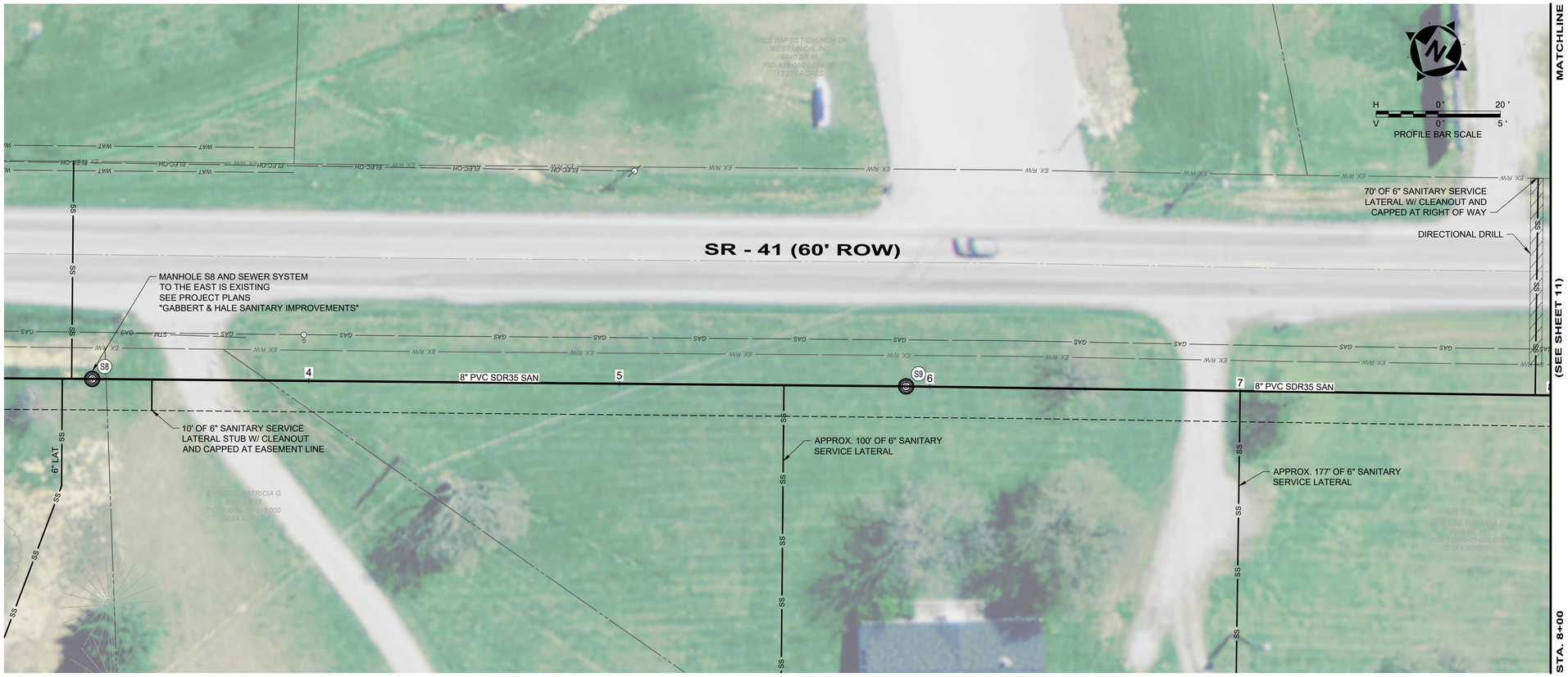

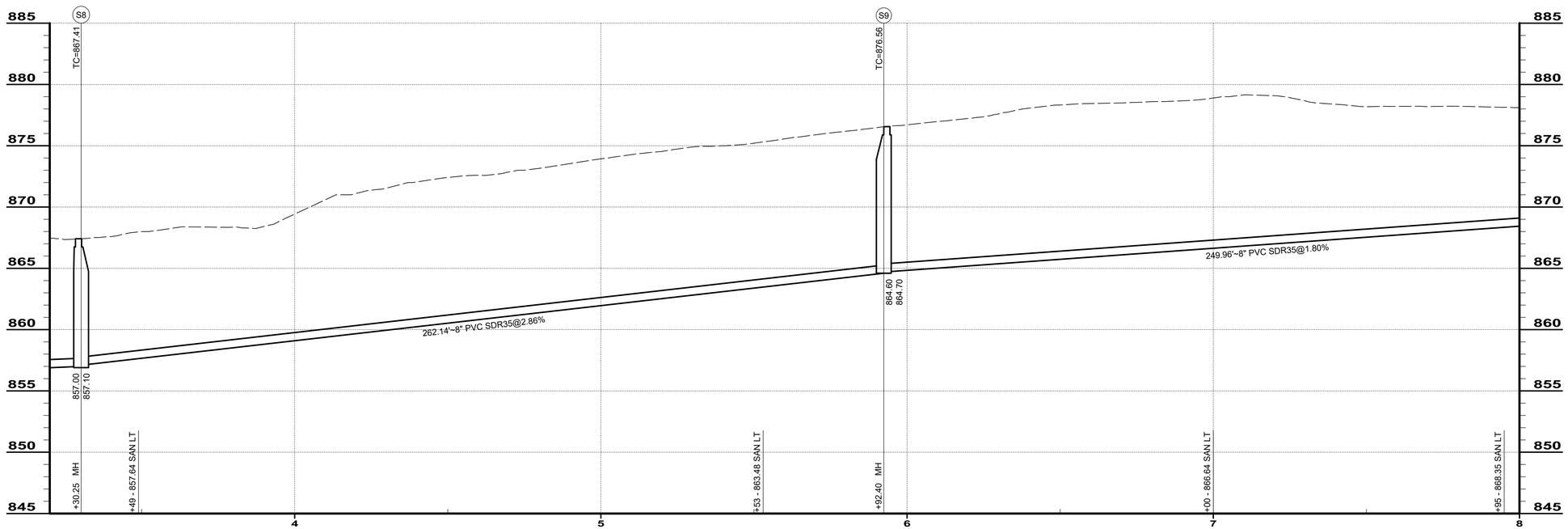

NOTES:

1. CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES

2. CONTRACTOR SHALL RESTORE ROADSIDE DRAINAGE DITCHES TO ORIGINAL CONDITION OR BETTER. DITCH FLOW SHALL CONTINUE AROUND PROPOSED STRUCTURES. COST INCLUDED IN PERTINENT SANITARY PIPE OR FORCE MAIN ITEM.

3. ABANDONED SEPTIC UNITS - SEPTIC TANKS NO LONGER IN USE SHALL BE LOCATED, COMPLETELY PUMPED, FLOOR AND WALLS CRACKED OR CRUMBLED SO THAT TANK DOES NOT HOLD WATER AND TANK FILLED WITH #57 STONE AND BACKFILLED WITH NATIVE SOIL AND SEEDED.

4. CONTRACTOR SHALL REPLACE ALL IMPACTED DRIVE CULVERTS WITH EQUAL OR LARGER PIPE (MINIMUM SIZE OF 12"). PIPE WITHOUT A (1) FOOT MIN. COVER SHALL BE CONCRETE.

5. FOR TRENCHING, EMBEDMENT, AND BACKFILL DETAILS, SEE SHEET 5.

SEPTIC TANK NOTE:
* = TANK LID ELE. HAS BEEN FIELD VERIFIED
** = TANK LID ELE. IS BASED OFF OF GIS

BID SET

verdantas

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CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

PLAN & PROFILE - SR41
STA. 3+30.25 TO STA. 8+00

PROJECT NO.	210164
DISCIPLINE	CIVIL
SHEET NAME	PNP-SR41-12
SHEET	10
OF	13

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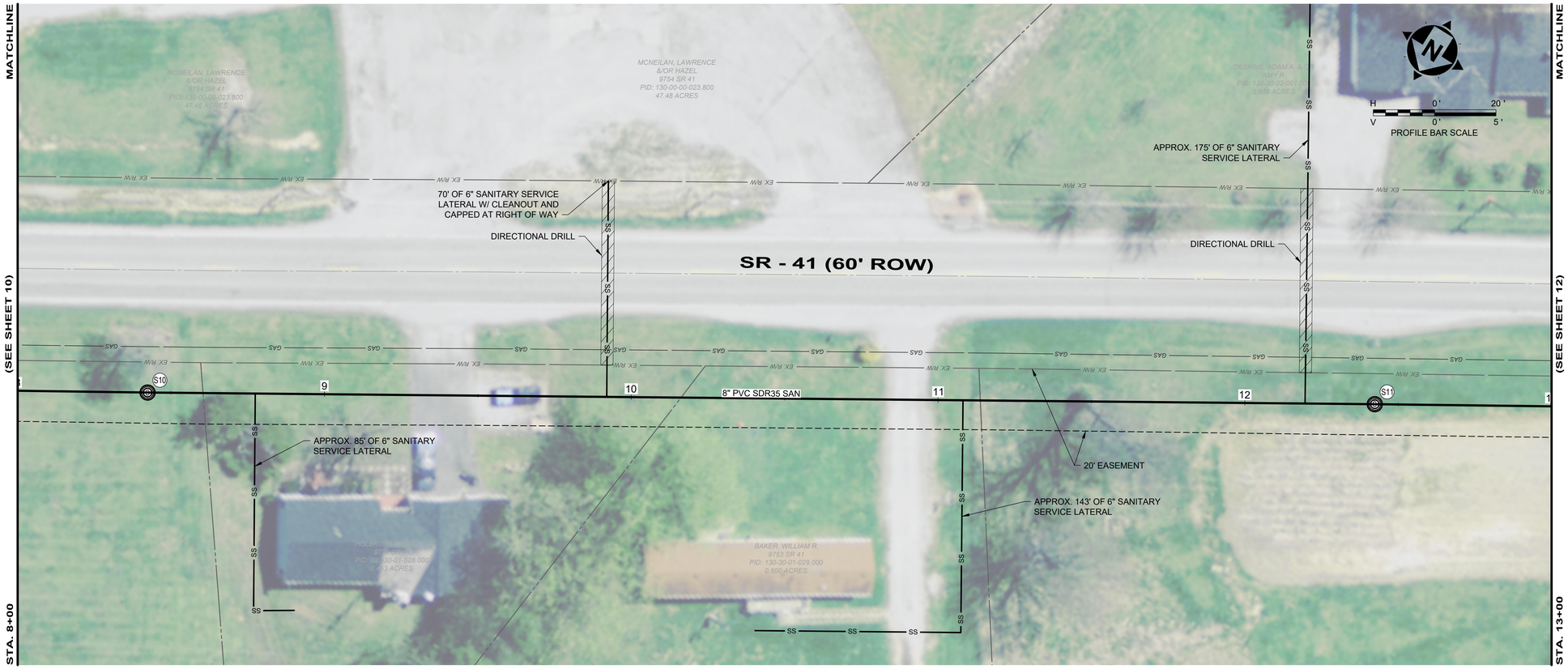

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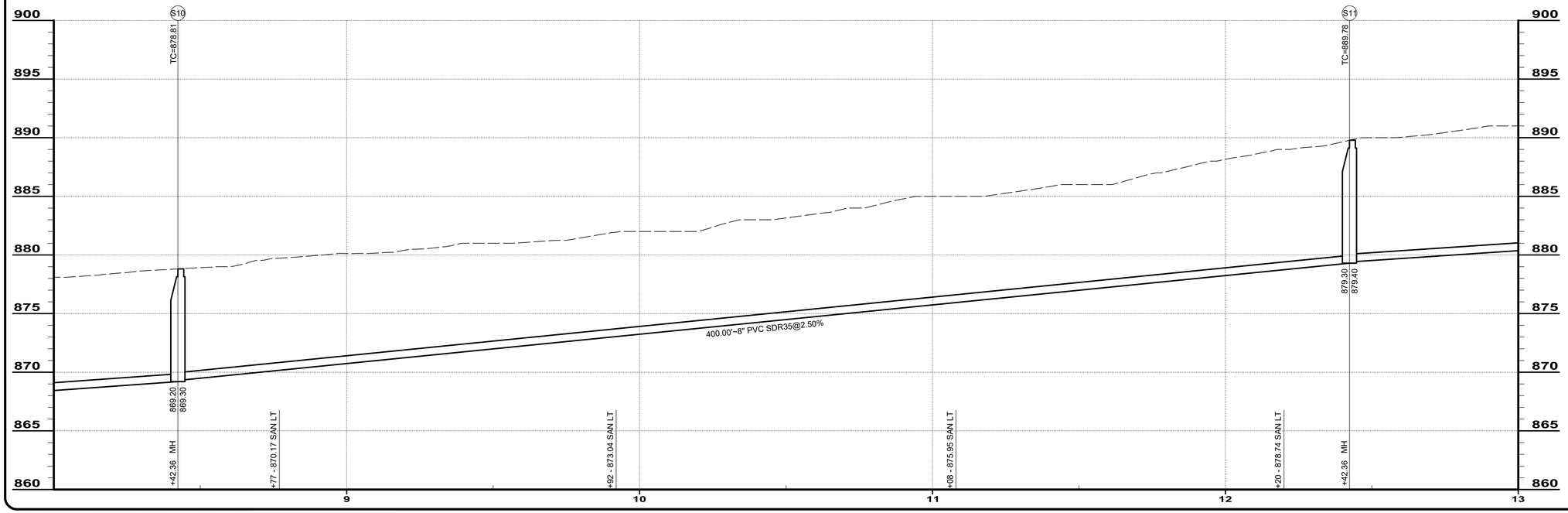

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NO	REVISION	DATE

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DESIGNED BY:	DSS
DRAWN BY:	DSS
CHECKED BY:	KAB

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

PLAN & PROFILE - SR41
STA. 8+00 TO STA. 13+00

PROJECT NO.
210164
DISCIPLINE
CIVIL
SHEET NAME
PNP-SR41-13
SHEET 11 OF 13

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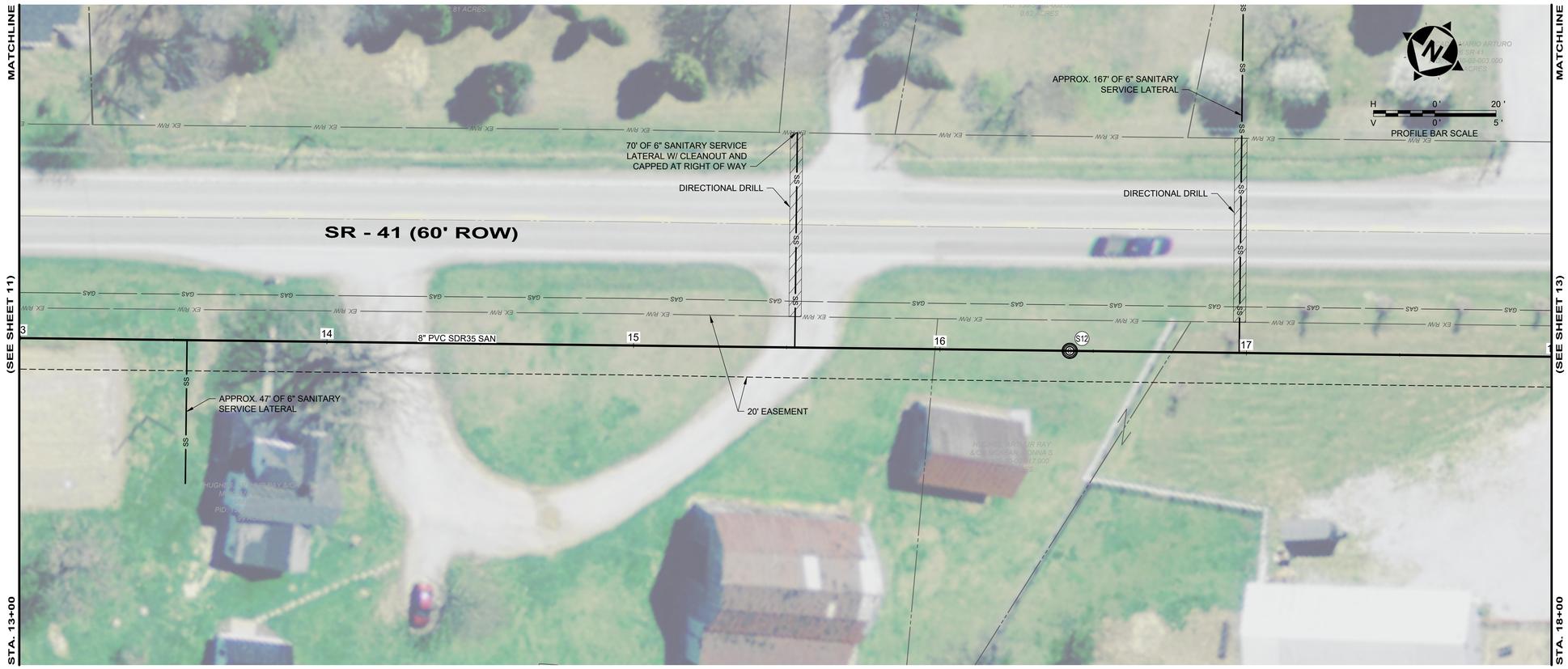

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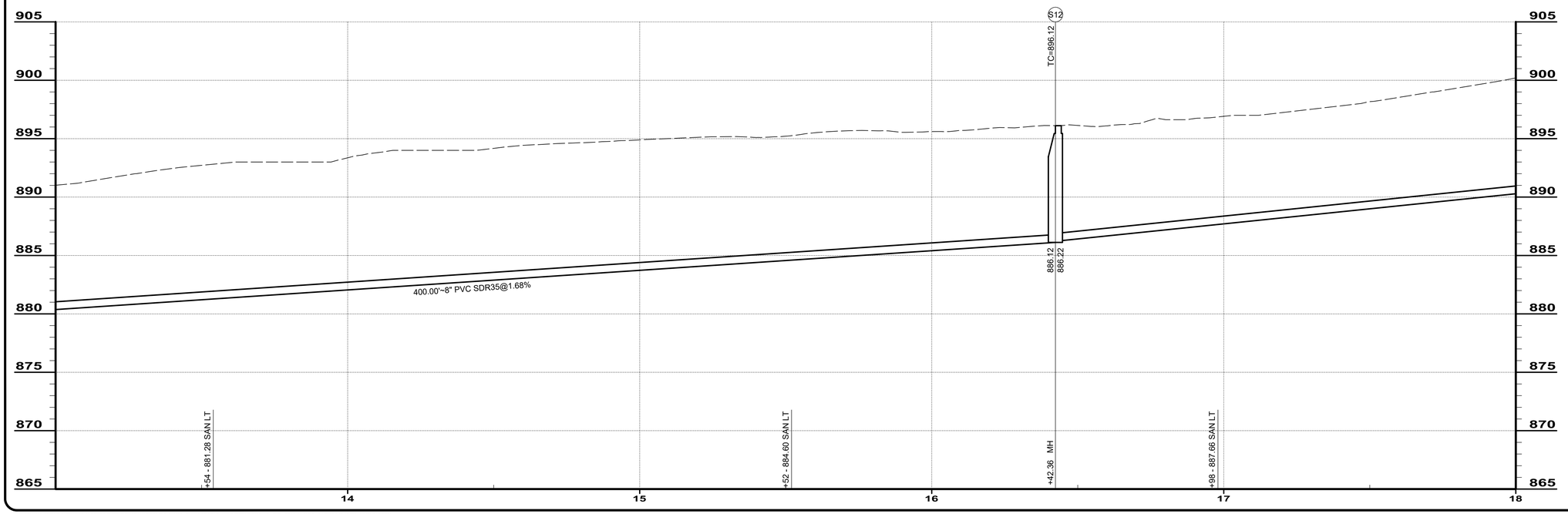

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CHECKED BY:	KAB

NO	REVISION	DATE

VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

PLAN & PROFILE - SR41
STA. 13+00 TO STA. 18+00

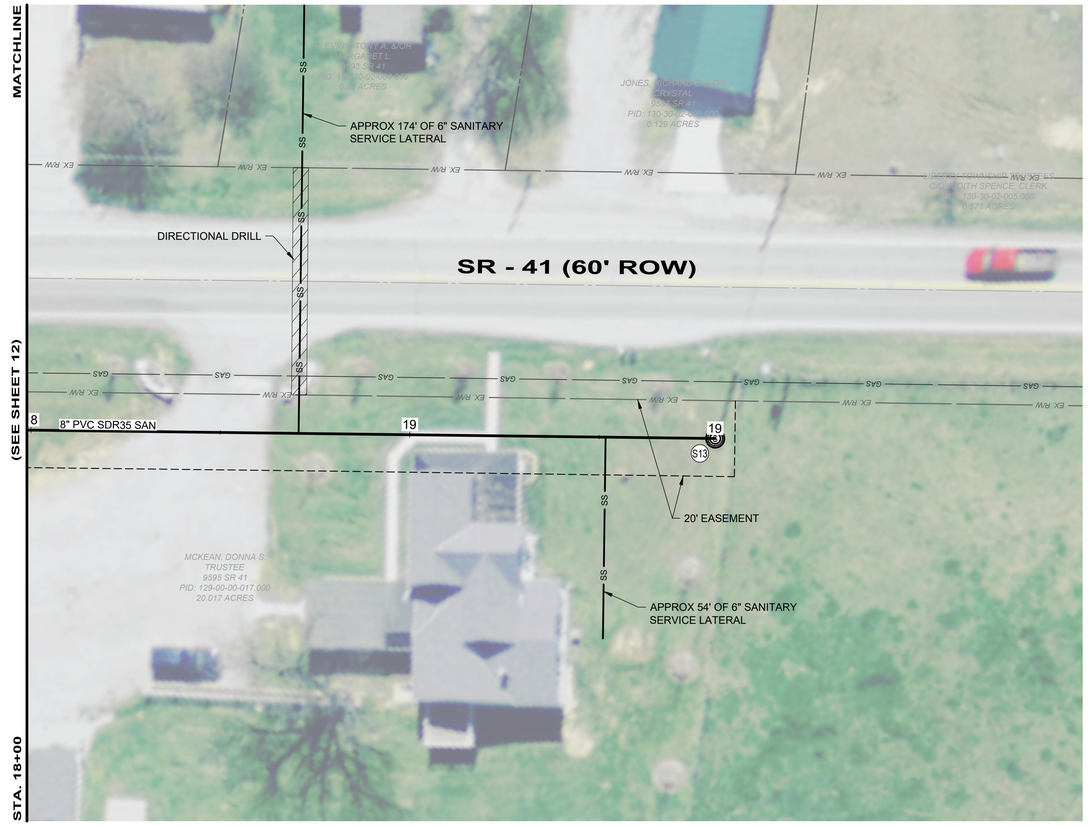
PROJECT NO.
210164

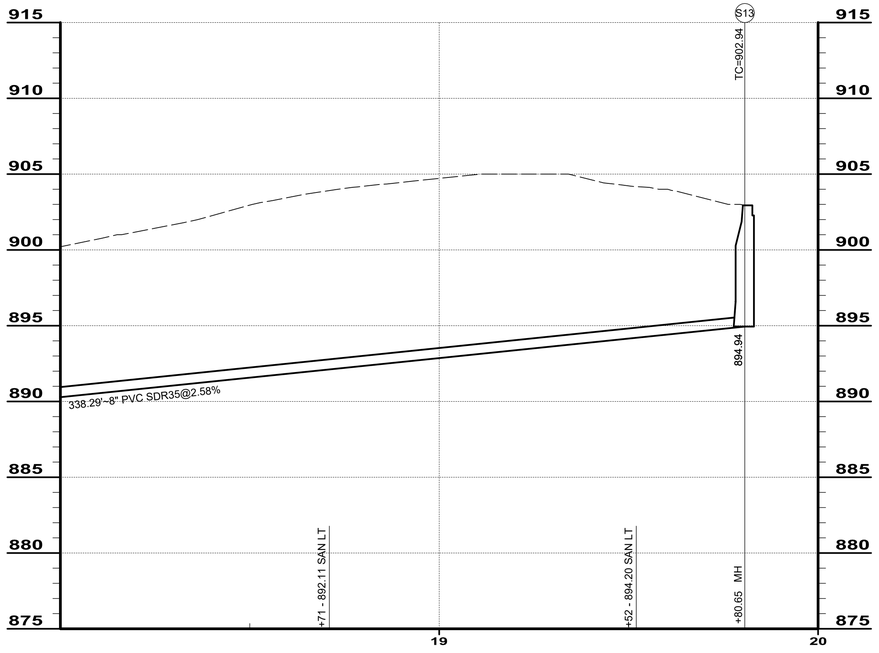
DISCIPLINE
CIVIL

SHEET NAME
PNP-SR41-14

SHEET 12 OF 13

H:\2021\210164\DWG\SHEETS\SR 41 SEWER EXTENSION AT HALE DRIVE\C_210164 - PLAN & PROFILE - HALE EXTENSION.DWG - PNP - SR41 -14 ALT A - 4/1/2025 5:45:18 PM - ADAM DAWSON





H 0' 20'
V 0' 5'
PROFILE BAR SCALE

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VILLAGE OF WEST UNION
SR 41 SEWER EXTENSION AT HALE DRIVE
- ADAMS COUNTY, OH -

PLAN & PROFILE - SR41
STA. 18+00 TO STA. 19+80.66

PROJECT NO.	210164
DISCIPLINE	CIVIL
SHEET NAME	PNP-SR41-15
SHEET	13
OF	13

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