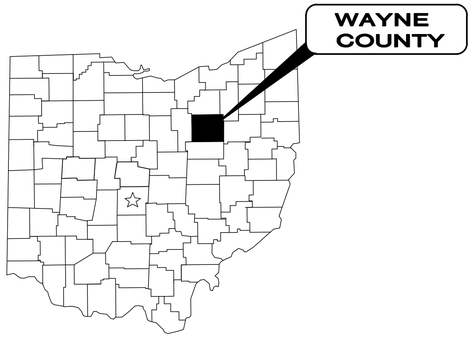
VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
OPWC FUNDED PROJECT
WAYNE COUNTY, OHIO



JUNE 2024

SMITHVILLE COUNCIL

TOM POULSON	MAYOR
ADRIENNE KARLEN	COUNCIL MEMBER
LARRY ALLEN	COUNCIL MEMBER
PATRICK FINN	COUNCIL MEMBER
MATT HAAS	COUNCIL MEMBER
JOSEPH REED	COUNCIL MEMBER

SMITHVILLE BOARD OF PUBLIC AFFAIRS

KYLE KROWNAPPLE	PRESIDENT
RYAN IMHOFF	BOARD MEMBER
LYNN MOOMAW	BOARD MEMBER

LOCATION MAP
NOT TO SCALE

OWNER:

VILLAGE OF SMITHVILLE
VILLAGE HALL, 207 WEST MAIN STREET
SMITHVILLE, OH 44677
(330) 438-6569 PHONE
(330) 489-3073 FAX

VILLAGE OF SMITHVILLE OFFICIALS

MAYOR	TOM POULSON
FISCAL OFFICER	PAMELA KEENER
VILLAGE ENGINEER	ROBERT L. McNUTT, P.E.

ENGINEER:

CT CONSULTANTS, INC.
3875 EMBASSY PARKWAY
SUITE 200
AKRON, OH 44333
(330) 375-0800 PHONE
(330) 665-0620 FAX

PROJECT LOCATION:

PROJECT LOCATION IS ON SECTIONS OF S SUMMIT STREET, FAIRLAWN STREET, WILSON STREET, EBERLY DRIVE, NORWOOD COURT, PARK DRIVE, AND MISHLER DRIVE. THE PROJECT WILL CONSIST OF 8" CURED-IN-PLACE LINING OF SANITARY SEWERS, POINT REPAIRS, WYE OR TEE REPAIRS, AND CONNECTION REINSTATEMENTS .

OUPS ONE CALL-UTILITY LIST:

NATURAL GAS DIST./TRANS.
DOMINION EAST OHIO GAS
320 SPRINGSIDE DR.
AKRON, OHIO 44333
330-864-2409
ATTN: BRYAN D. DAYTON
relocation@dom.com

AMERICAN ELECTRIC POWER
825 TECH CENTER DR.
GAHANNA, OHIO 43230
614-552-1183
ATTN: TONY PURSES
ajpurses@aep.com

CLEAR PICTURE, INC.
444 W. MILLTOWN RD.
WOOSTER, OHIO 44691
330-345-8114

SMITHVILLE WATER DEPARTMENT
4363 EBY ROAD
SMITHVILLE, OHIO 44677
PHONE: 330-669-2633

CENTURYLINK
665 LEXINGTON AVENUE
MANSFIELD, OHIO 44907
800-786-6272

OHIO811.org Before You Dig

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.

CT consultants engineers • architects • planners
A Verdantas Company

ENGINEER'S
PROJECT No. 232640

TIMOTHY J. MCLAUGHLIN — P.E. No. 83985 — 6/17/2024 DATE

STATE OF OHIO
TIMOTHY J. MCLAUGHLIN
83985
REGISTERED PROFESSIONAL ENGINEER

CT consultants engineers • architects • planners
A Verdantas Company

NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 04/18/2024
SCALE: AS SHOWN
DESIGNED BY: AMM
DRAWN BY: AMM
CHECKED BY: TJM

VILLAGE OF SMITHVILLE
2024 SANITARY SEWER
REHABILITATION PROJECT
SMITHVILLE, OHIO
WAYNE COUNTY

COVER SHEET

PROJECT NO. 232640
DISCIPLINE: GENERAL
SHEET NAME: 00G-01
SHEET 1 OF 14

H:\2023\232640\DWG\SHEETS\C_232640 - COVER SHEET.DWG - 6/13/2024 10:00:41 AM - MSCH
H:\2023\232640\DWG\SHEETS\C_232640 - COVER SHEET.DWG - COVER SHEET - 6/13/2024 10:00:41 AM - MSCHLEIGH MSCH

1.0 GENERAL NOTES

1.01 THE WORK UNDER THIS CONTRACT SHALL CONSIST OF CURED-IN-PLACE PLACE (CIPP) LINING OF SANITARY SEWER, WYE/ TEE REPAIRS, REMOVAL OF EXTRUDING TAPS, AND CONNECTION REINSTATEMENTS AS NOTED AND DETAILS IN PLANS AND SPECIFICATIONS.

THE CONTRACTOR WILL DO ALL OF THE WORK AND FURNISH ALL OF THE LABOR AND MATERIALS NECESSARY FOR THE FINAL COMPLETION OF THIS CONTRACT IN THE MANNER AND UNDER THE CONDITIONS HEREIN SPECIFIED AND PROVIDED AND IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

1.02 A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK.

1.03 ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES EXCEPT THE TIME WHEN SEWER INSTALLATION AND PAVEMENT REPLACEMENT WILL NOT PERMIT.

1.04 IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL FURNISH, MAINTAIN AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGGERS, SIGNING AND OTHER TRAFFIC CONTROLS TO INSURE THE SAFETY OF PERSONS AND VEHICLES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS.

MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS - REVISION 20.

1.05 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING A SITE FOR DISPOSAL OF ALL EXCAVATED MATERIAL THAT IS UNSUITABLE FOR USE AS BACKFILL AND ALL OTHER EXCESS EXCAVATED MATERIALS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE LOCATION OF THE DISPOSAL SITE AND WRITTEN PERMISSION FOR USE OF THE SITE FROM THE PROPERTY OWNER. THE COST FOR SECURING AND MAINTAINING THE DISPOSAL SITE WILL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

1.06 ALL OVER-THE-ROAD VEHICLES USED ON THE PROJECT BY ALL CONTRACTORS AND SUBCONTRACTORS WILL BE CLEARLY MARKED SHOWING ITS COMPANY AFFILIATION.

1.07 ALL SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD THE CHECKED SHOP DRAWINGS TO THE OWNER FOR FINAL CHECKING AND APPROVAL. SHOP DRAWINGS MUST BE APPROVED PRIOR TO ORDERING ANY MATERIALS.

1.08 BEFORE THE OWNER WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTEE RETAINER, THE CONTRACTOR WILL FURNISH THE OWNER A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTER HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.

1.09 THE CONTRACTOR IS TO TAKE CARE DURING EXCAVATION, PIPE INSTALLATION AND BACKFILLING, IN AREAS IMMEDIATELY ADJACENT TO TREES, TO MINIMIZE THE DISTURBANCE OF ROOT SYSTEM AND TREE LIMBS. THE COST OF ANY EXTRA EFFORT SUCH AS HAND EXCAVATION IS TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION.

1.10 THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF SMITHVILLE POLICE AND FIRE DEPARTMENTS, WAYNE COUNTY ENGINEER, ODOT AND THE OWNER AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CLOSING OR TRAFFIC CHANGE.

1.11 THE CONTRACTOR SHALL PERFORM WORK AS TO NOT DISTURB, DAMAGE, OR DESTROY ANY MAILBOX, PAPERBOX, TELEPHONE OR POWER POLES, SIGNS, LANDSCAPING ITEMS, ETC.. ANY ITEM DAMAGED OR DESTROYED SHALL BE REPLACED AS THE CONTRACTORS EXPENSE. ANY ITEMS DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTORS EXPENSE. PRIOR ENGINEER APPROVAL IS REQUIRED BEFORE ANY OF THE ABOVE ITEMS ARE PERFORMED.

2.0 EXCAVATION, BACKFILL AND COMPACTION

2.01 ALL EXCAVATION WILL BE CONSIDERED UNCLASSIFIED, NO ADDITIONAL COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.

2.02 ALL BACKFILL WILL BE AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS.

2.03 SLAG PRODUCTS OR CRUSHED CONCRETE WILL NOT BE PERMITTED FOR BEDDING, BACKFILL, OR TRAFFIC COMPACTED SURFACE.

2.04 ALL UTILITY LINES CROSSING THE NEW SEWER TRENCH, (I.E. STORM SEWERS, STORM LATERALS, WATERLINES, WATERLINE CONNECTIONS, SANITARY SEWERS, SANITARY LATERALS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OCT CONDUITS, CABLE TV LINES) SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK UNLESS ANY OF THE ABOVE UTILITIES ARE ENCOUNTERED AND NOT SHOWN ON THE DRAWINGS.

2.05 ANY COMPACTION TESTING REQUIRED AT THE SOLE DISCRETION OF THE ENGINEER SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

2.06 THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL GROUNDWATER AND SURFACE WATER AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. ALL CONDUIT SHALL BE INSTALLED IN A DRY AND STABLE TRENCH.

3.0 SANITARY SEWER

3.01 ALL PVC SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034 SDR 26, AS SHOWN ON PLANS, WITH JOINTS CONFORMING TO ASTM D-3212. THE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321 OR MANAGED IN ACCORDANCE WITH SPECIFICATION SECTION 330130.03.

3.02 SANITARY SEWER FLOW IS TO BE MAINTAINED AT ALL TIMES.

3.03 FINAL TELEVISION INSPECTION OF CONDUIT SHALL BE PERFORMED BY AN EXPERIENCED COMPANY AND IN A FORMAT SATISFACTORY TO THE OWNER. THE ENGINEER SHALL BE PROVIDED WITH UNEDITED VIDEO AND TWO (2) COPIES OF THE VIDEO LOG.

3.04 ALL SANITARY CIPP LINING SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION SECTION 330130.72 AND 330130.74 AND STRICTLY WITHIN MANUFACTURERS SPECIFICATIONS.

3.05 ALL FLEXIBLE PIPE SHALL BE DEFLECTION TESTED IN ACCORDANCE WITH 10 STATES STANDARDS SECTION 33.85 AND SPECIFICATION SECTION 013319.

3.06 ROOF DRAINS, FOUNDATION DRAINS, AND ANY OTHER CLEAN WATER CONNECTION TO THE SANITARY SEWER SYSTEM IS PROHIBITED.

3.07 MINIMUM THICKNESS OF CIPP LINER SHALL BE 4MM FOR 8" SEWER.

3.08 THE CONTRACTOR SHALL REINSTATE ALL CONNECTIONS WHETHER SHOWN ON PLANS OR ENCOUNTERED IN THE FIELD.

4.0 EXISTING UTILITIES

4.01 EACH CONTRACTOR SHALL VISIT THE SITE PERSONALLY TO ASCERTAIN THE NATURE OF THE WORK AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE SITE PRIOR TO BID SUBMISSION.

4.02 THE DATA SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE EXISTENCE OF FACILITIES ABOVE OR BELOW GROUND, WHICH MAY NOT BE SHOWN, MAY NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK.

4.03 NO FIELD SURVEY WAS PERFORMED AND UTILITIES WERE NOT FIELD LOCATED FOR THIS PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLY TO LOCATE ANY AND ALL EXISTING UTILITIES AS NECESSARY FOR ANY EXCAVATION REQUIRED TO COMPLETE REPAIRS AS NOTED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. CONTRACTOR ALSO TO COORDINATE THEIR WORK WITH THE DOMINION EAST OHIO GAS COMPANY, AMERICAN ELECTRIC POWER, CENTURYLINK AND CLEAR PICTURE FOR GAS LINE AND/OR POLE RELOCATION.

4.04 WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THAT OF THE OWNER.

4.05 DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.

4.06 BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE" AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE VILLAGE OF SMITHVILLE, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE VILLAGE OF SMITHVILLE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS. THE UTILITY OWNERSHIPS ARE LISTED ON THE COVER SHEET.

4.07 WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

4.08 IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

4.09 IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

THE UTILITY OWNERSHIPS, AS REPORTED BY OUPS, ARE AS LISTED ON THE COVER SHEET OF THIS PLAN SET AND THE CONTACT INFORMATION FOR EACH UTILITY, IF AVAILABLE, IS LISTED BELOW.

DOMINION ENERGY OHIO (GAS)
320 SPRINGDALE DRIVE, STE. 320
AKRON, OHIO 44333
PHONE: (330) 664-2409
ATTN: BRYAN D. DAYTON
GENERAL PHONE: (800) 362-7557
RELOCATION@DOMINIONENERGY.COM

AMERICAN ELECTRIC POWER
825 TECH CENTER DR.
GAHANNA, OHIO 43230
614-552-1183
ATTN: TONY PURSES
ajpurses@aep.com

CLEAR PICTURE, INC.
444 W. MILLTOWN RD.
WOOSTER, OHIO 44691
330-345-8114

SMITHVILLE WATER DEPARTMENT
4363 EBY ROAD
SMITHVILLE, OHIO 44677
330-669-2633

CENTURY LINK
665 LESINGTON AVENUE
MANSFIELD, OHIO 44907
800-786-6272

4.10 SERVICE CONNECTIONS AND LATERALS ARE SHOWN ON THE PLANS USING PACP LOGS AND G.I.S DATA . THE CONTRACTOR SHALL FIELD VERIFY AND PROTECT CONNECTIONS AND LATERALS DURING CONSTRUCTION AND REPAIR ANY DAMAGE DUE TO CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR LOCATION, PROTECTION, AND/OR REPAIR.

5.0 DRAINAGE, SOIL EROSION, SEDIMENT AND DUST CONTROL

5.01 ALL SWALES, OR DITCHES DISTURBED OR DESTROYED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

5.02 POSITIVE DRAINAGE OF ALL CONSTRUCTION AREAS SHALL BE MAINTAINED AT ALL TIMES.

5.03 THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH ODOT ITEM 207 AND AS REQUIRED BY THE WAYNE COUNTY SOIL AND WATER CONSERVATION DISTRICT.

5.04 TEMPORARY OR PERMANENT EROSION CONTROL MATTING SHALL BE UTILIZED FOR STABILIZATION OF ALL DISTURBED SLOPE AREAS GREATER THAN 2:1 (HORZ:VERT). PERMANENT EROSION CONTROL SHALL BE UTILIZED ON SEVER SLOPES GREATER THAN 1-1/2:1, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

5.05 THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY, SUCH AS CALCIUM CHLORIDE, WATER OR A MOTORIZED DUST-FREE STREET SWEEPING DEVICE PERFORMED DAILY OR AS DIRECTED BY THE OWNER, TO MAINTAIN ALL PAVED AREAS AFFECTED BY THE CONSTRUCTION.

PAYMENT FOR ALL SOIL EROSION, SEDIMENT AND DUST CONTROL MEASURES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER VARIOUS ITEMS.

6.0 TREE PROTECTION

6.01 SPECIAL CARE SHALL BE TAKEN TO AVOID DAMAGE TO TREES AND THEIR ROOT SYSTEM. THE OPERATION OF ALL EQUIPMENT, PARTICULARLY WHEN EMPLOYING BOOMS, THE STORAGE OF MATERIALS AND THE DISPOSITION OF EXCAVATED MATERIALS SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT INJURE TREES, TRUNKS, BRANCHES OR THEIR ROOTS UNLESS SUCH TREES ARE DESIGNATED BY THE ENGINEER FOR REMOVAL.

7.0 RESTORATION

7.01 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM THEIR OPERATION AND RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION. ANY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE REGRADED BY THE END OF THE SAME WORK DAY.

7.02 ALL EXISTING STORM SEWER FACILITIES, INCLUDING TILE, DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED, REPLACED OR RECONNECTED TO THE EXISTING OR PROPOSED SYSTEM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH WORK IN THE UNIT PRICE FOR OTHER RELATED ITEMS OF WORK.

8.0 MATERIAL STORAGE

8.1 ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE STORED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS, HYDRANTS UNDER PRESSURE, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES OR OTHER UTILITY CONTROLS UNOBSTRUCTED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. GUTTERS SHALL BE KEPT CLEAR AND MAINTAINED AT ALL TIMES OR OTHER SATISFACTORY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE. NATURAL DRAINAGE COURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF WORK, ALL MATERIALS SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER.

8.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL TREES, STUMPS, BROKEN PAVEMENT AND ALL CONSTRUCTION DEBRIS OF WHATEVER NATURE OUTSIDE THE WORK LIMITS OF THE PROJECT. NO EXTRA PAYMENT WILL BE MADE BY THE OWNER FOR THE REMOVAL AND DISPOSAL OF DEBRIS.

9.0 MATERIAL TESTING

9.01 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL AND EQUIPMENT TESTING. THE OWNER MAY REQUIRE SUBGRADE COMPACTION TESTING, ASPHALT AND CONCRETE QUALITY CONTROL TESTING WHICH WILL BE PAID FOR BY THE OWNER.

10.0 INSPECTION

10.01 THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT CONTACTING ENGINEER, AS APPROPRIATE, A MINIMUM OF 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITY TO ARRANGE FOR OBSERVATION. IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE VILLAGE TO AVOID UNNECESSARY OBSERVATION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE TIME INCURRED.

11.0 PROHIBITED CONSTRUCTION ACTIVITIES

11.01 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER;

11.02 LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS;

11.03 INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS;

11.04 PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE;

11.05 DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO;

11.06 PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM;

11.07 DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA;

11.08 DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS;

11.09 OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT;

11.10 DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, RILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION;

11.11 STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES;

11.12 RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER;

11.13 OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OR 8:00 AM AND 5:00 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS; AND

11.14 CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:

- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

Sheet List Table

LEGEND & SYMBOLOGY:

EXISTING LINEWORK AND SYMBOLS

SAN — EX. SANITARY SEWER
SS — SS — SS — SS — EX. SANITARY SEWER LATERAL
EX. PROPERTY LINE
EX. SANITARY MANHOLE

PROPOSED LINEWORK AND SYMBOLS

PROPOSED 8" CIPP LINING

STATE OF OHIO
TIMOTHY J. MCLAUGHLIN
83985
REGISTERED PROFESSIONAL ENGINEER

Consultants
engineers • architects • planners
A Verdantas Company

NO	REVISION	DATE

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CHECKED BY: TJM

VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

GENERAL NOTES, INDEX, LEGEND AND SYMBOLOGY

PROJECT NO. 232640
DISCIPLINE GENERAL
SHEET NAME 00G-02
SHEET 2 OF 14

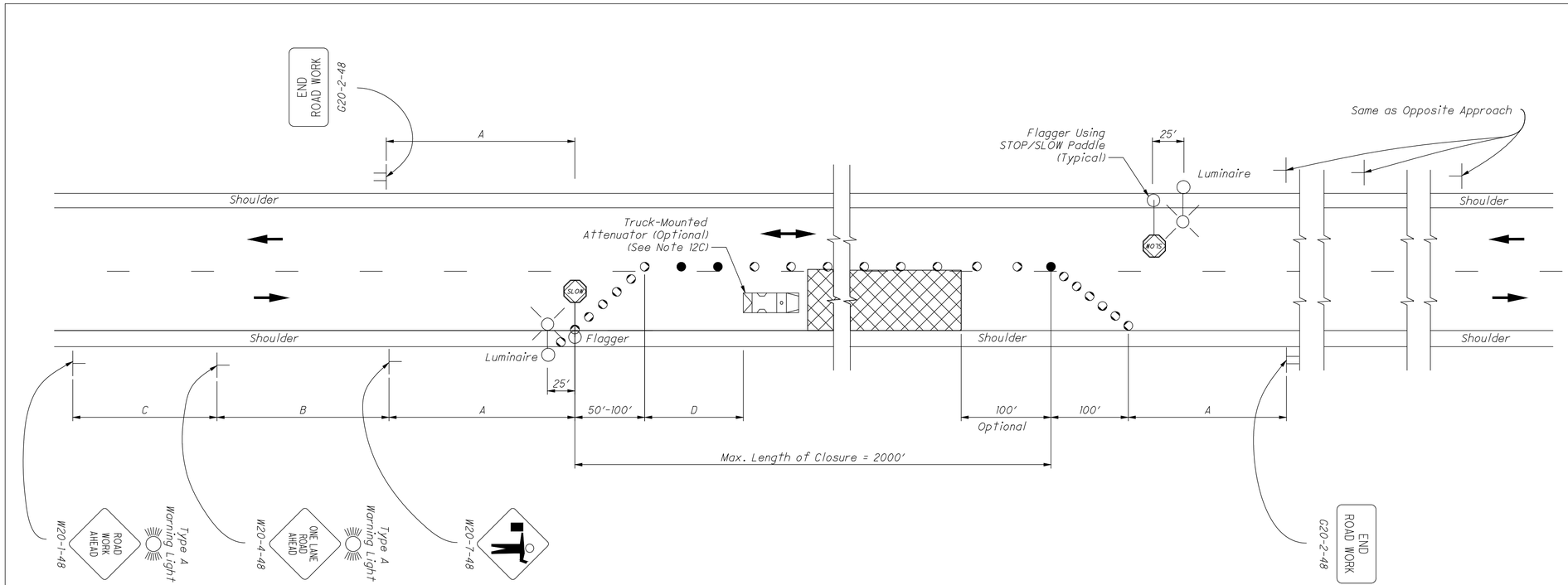

TABLE I (SIGN SPACING)

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (≤ 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

TABLE II

SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570

LEGEND

- WORK AREA
- DRUMS/CONES
- DIRECTION OF TRAVEL
- SHADOW VEHICLE WITH TMA

THIS DRAWING REPLACES MT-97.10 DATED 07-18-2014.

STANDARD ROADWAY CONSTRUCTION DRAWING

FLAGGER CLOSING 1 LANE OF A 2-LANE HIGHWAY - STATIONARY OPERATION

SCD NUMBER **MT-97.10**

OFFICE OF ROADWAY ENGINEERING

STDS. ENGINEER Soisson

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR David L. Holstein

REVISION DATE 04-19-2019

1 / 2

STATE OF OHIO — TIMOTHY J. MCLAUGHLIN 83985 — REGISTERED PROFESSIONAL ENGINEER

CTconsultants engineers • architects • planners
A Verdantas Company

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VILLAGE OF SMITHVILLE
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WAYNE COUNTY
SMITHVILLE, OHIO

MAINTENANCE OF TRAFFIC DETAIL

PROJECT NO. 232640
DISCIPLINE GENERAL
SHEET NAME 00G-03
SHEET 3 OF 14

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NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000′ long unless approved by the Engineer. The minimum length between closures shall be 2000′. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

3A. The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.

3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200′ for speeds of 45 mph or less and a minimum of 400′ for speeds of 50 mph or greater.

3C. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SIGHT DISTANCE

4. The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

BASIC SIGNING

5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.

5B. END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. It is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.

5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20-1) or END ROAD WORK (G20-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS

6A. The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.

6B. 36″ warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights shown on the ROAD WORK AHEAD (W20-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.

DRUMS / CONES

8A. Drum spacing shall be as follows:

a) Spacing along the closure shall be 40′ center-to-center.
b) Spacing along the approach taper shall be 10′ center-to-center.

8B. Cones may be substituted for drums as follows:

a) Cones used for daytime traffic control shall have a minimum height of 28″.
b) Cones used for nighttime traffic control shall have a minimum height of 42″.
c) Use of cones at night shall be prohibited along tapers.

8C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.

8D. A minimum of two drums shall be used to close the paved shoulder.

(RESERVED FOR FUTURE USE)

9A. (intentionally blank)

AREA ILLUMINATION

10A. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.

10B. To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

11. Within the length of closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The Contractor shall:

a) Place across the closed lane, either three drums (cones) or barricades, and/or
b) Provide an additional flagger at every public street intersection and major driveway.

Drums (cones) placed across the closed lane shall be located 25′ beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenver workers are not in the work area.

12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe light(s).

12C. The shadow vehicle shall be equipped with a truck-mounted or trailer attenuator (TMA) in accordance with CMS 614.03 when called for in the plans.

CHIP SEAL OPERATIONS

13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.

a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.
b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.09.
c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

STATE OF OHIO
TIMOTHY J. MCLAUGHLIN
83985
REGISTERED PROFESSIONAL ENGINEER

GPD consultants
engineers · architects · planners
A Verdantas Company

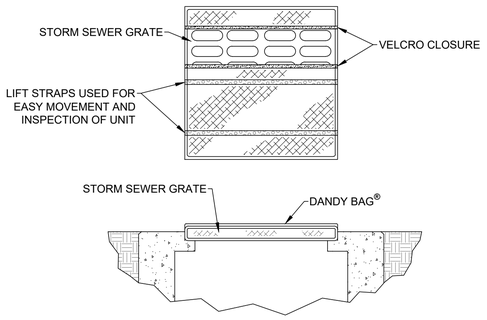
NO	REVISION	DATE

ISSUED FOR: REVIEW
ISSUE DATE: 04/18/2024
SCALE: AS SHOWN
DESIGNED BY: AMM
DRAWN BY: AMM
CHECKED BY: TJM

VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

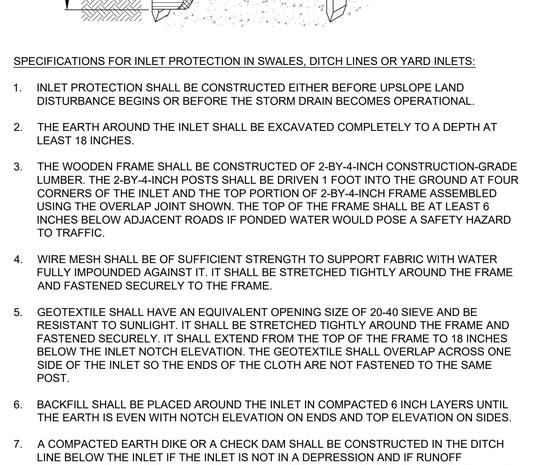
MAINTENANCE OF TRAFFIC NOTES

PROJECT NO. 232640
DISCIPLINE GENERAL
SHEET NAME 00G-04
SHEET 4 OF 14



INLET PROTECTION ALTERNATIVE DANDY BAG DETAIL

NOT TO SCALE



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

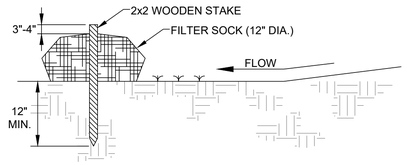
1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-INCH CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-INCH POSTS SHALL BE DRIVEN 1 FOOT 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

NOT TO SCALE

RESTORATION/SEDIMENTATION AND EROSION CONTROL:

1. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND OTHER AREAS AS SHOWN ON PLANS SHALL BE PROPERLY RESTORED WITH 4" OF TOPSOIL, SEEDING AND MULCHING PER THE SPECIFICATIONS.
2. IN ALL DISTURBED AREAS THE CONTOURS WILL BE RESTORED IN A MANNER THAT MAINTAINS EXISTING DRAINAGE PATTERNS. FOLLOWED BY SEEDING AND MULCHING. IF, DUE TO WEATHER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, TEMPORARY SEEDING & MULCHING, WITHIN SEVEN DAYS, WILL BE USED UNTIL FINAL RESTORATION CAN OCCUR.
3. SILT FENCING SHALL BE EXTRA STRENGTH SYNTHETIC FILTER FABRIC HAVING A MINIMUM FLOW RATE OF 0.3 GA/SQ.FT/MINUTE AND SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0°F. TO 120°F. SEE STANDARD DETAIL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING INSPECTIONS OF ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER ALL STORMS THAT PRODUCE MORE THAN ONE-HALF (1/2") INCH TOTAL RAINFALL. ANY NEEDED REPAIRS SHALL BE PERFORMED IMMEDIATELY. THE CONTRACTOR SHALL DOCUMENT ALL INSPECTIONS AND ANY REPAIRS THAT ARE DONE TO MAINTAIN EFFICIENCY.
5. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
6. THE TOTAL DISTURBED AREA IS LESS THAN ONE ACRE.



MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8" TO 2".

INSTALLATION:

1. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES; GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1; ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
4. REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

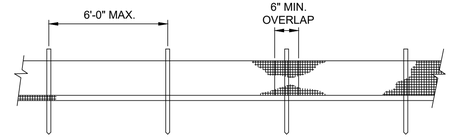
SILT FENCE ALTERNATIVE FILTER SOCK DETAIL

NOT TO SCALE

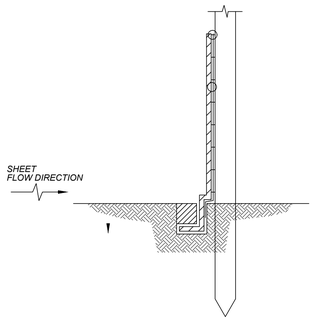
SILT FENCE NOTES:

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 OR 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 POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FEET (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
5. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 INCHES DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
7. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 INCHES OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6-INCH-DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
8. SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
9. 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:
   - 9.1. THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED,
   - 9.2. ACCUMULATED SEDIMENT SHALL BE REMOVED, OR
   - 9.3. OTHER PRACTICES SHALL BE INSTALLED.
10. SILT FENCE MATERIALS
    - 10.1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES LONG. WOOD POSTS WILL BE 2 X 2 INCH HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FEET.
    - 10.2. SILT FENCE FABRIC (SEE CHART BELOW):

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 PSI MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./F2 MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26



ELEVATION



SECTION

SILT FENCE

NOT TO SCALE

STATE OF OHIO
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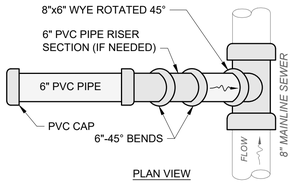
NO	REVISION	DATE

ISSUED FOR:	REVIEW
ISSUE DATE:	04/18/2024
SCALE:	AS SHOWN
DESIGNED BY:	AMM
DRAWN BY:	AMM
CHECKED BY:	TJM

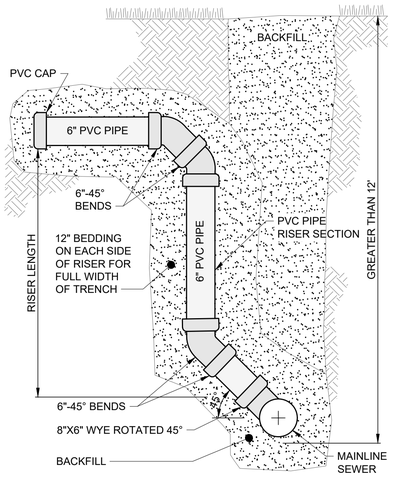
VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO.	
232640	
DISCIPLINE	
GENERAL	
SHEET NAME	
00G-05	
SHEET	OF
5	14



PLAN VIEW



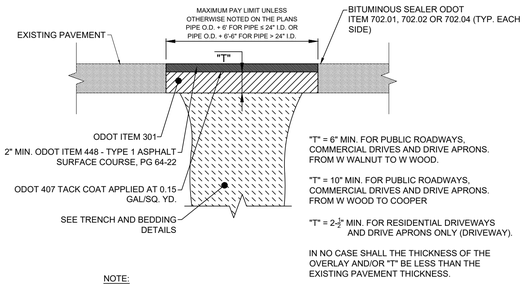
PROFILE VIEW

NOTES:

1. 8" AND 6" PIPES SHOWN IN DETAIL; SEE UTILITY PLAN FOR ACTUAL SIZES.
2. PLACE LATERAL MARKER AT END OF SERVICE LATERAL.
3. FERNCO TRI-BAND COUPLERS TO BE USED FOR CONNECTION OF DISSIMILAR MATERIAL.

SANITARY LATERAL CONNECTION (>12') DETAIL

NOT TO SCALE

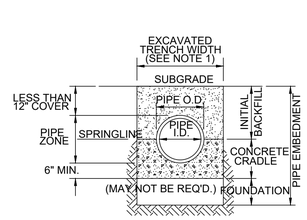


NOTE:

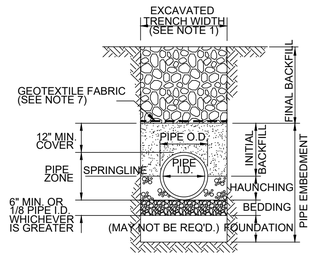
1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.

TYPE "C" PAVEMENT REPLACEMENT

NOT TO SCALE

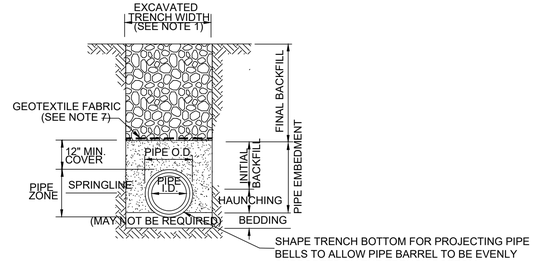


CLASS 'A' PIPE EMBEDMENT



CLASS 'B' PIPE EMBEDMENT

NOTE: ITEM SHALL BE USED AS DIRECTED



CLASS 'C' PIPE EMBEDMENT

NOTES:

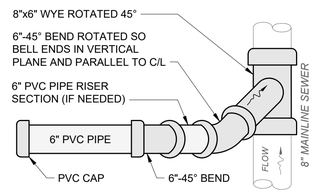
1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND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

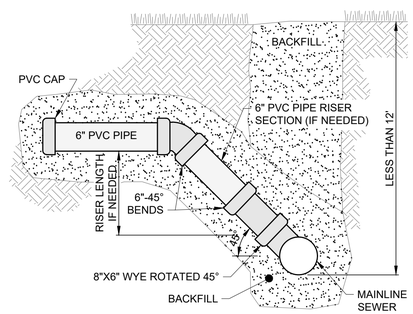
   CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT 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 310000.
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



PLAN VIEW



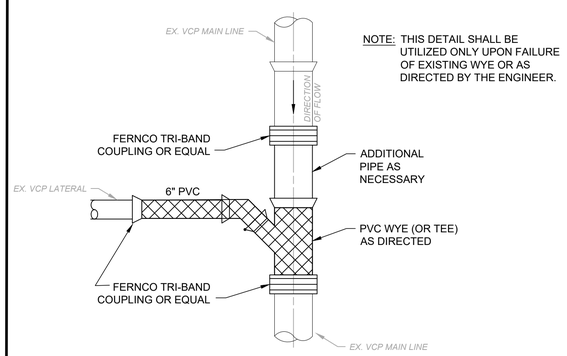
PROFILE VIEW

NOTES:

1. 8" AND 6" PIPES SHOWN IN DETAIL; SEE UTILITY PLAN FOR ACTUAL SIZES.
2. PLACE LATERAL MARKER AT END OF SERVICE LATERAL.
3. FERNCO TRI-BAND COUPLERS TO BE USED FOR CONNECTION OF DISSIMILAR MATERIAL.

SANITARY LATERAL CONNECTION (<12') DETAIL

NOT TO SCALE



WYE REPLACEMENT DETAIL

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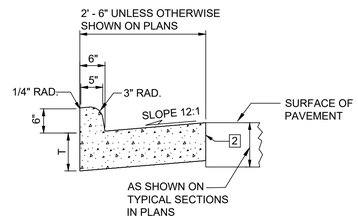

NOTES:

JOINTS: 1" EXPRESSION JOINTS SHALL EXTEND UP TO THE TOP OF THE CURB AND SHALL BE CONSTRUCTED IN THE CURB AND GUTTER SECTION IN SUCH A MANNER THAT THE JOINT SEAL WILL EXTEND THE FULL WIDTH OF THE GUTTER AND INTO THE CURB AND FACE A SUFFICIENT DISTANCE TO SEAL THE JOINT TO AN ELEVATION OF A LEAST 2"ABOVE THE FLOW LINE OF THE GUTTER. DOWEL BARS SHALL BE USED IN THE CURB AND GUTTER SECTION AT EXPANSION JOINTS AND TO THE SURFACE OF THE PAVEMENT.

TRANSVERSE EXPANSION JOINT MATERIAL SHALL MEET THE REQUIREMENTS OF ITEM 705.03.

GUTTER PLATE THICKNESS: THICKNESS OF GUTTER PLATE "T" SHALL BE 9" UNLESS OTHERWISE SHOWN ON THE PLANS.

TOLERANCES: DIMENSIONAL TOLERANCES ARE AS FOLLOWS:

CURBS: -1/32" TO +1/4"

GUTTERS: 0 TO +1/2"

LEGEND:

BUTT JOINTS SHALL BE PROVIDED BETWEEN COMBINED CURB-AND GUTTER AND NEW OR EXISTING RIGID PAVEMENTS, WITH TIE BARS OR HOOK BOLTS PROVIDED AT INTERVALS OF 5'. SEE SCD BP-2.1 FOR DETAILS OF TIE BARS AND HOOK BOLTS. IF COMBINED CURB-AND-GUTTER ADJOINS A NEW RIGID BASE OR PAVEMENT THAT IS TO BE SURFACED WITH ASPHALT CONCRETE, A BUTT JOINT SHALL ALSO BE PROVIDED, HOWEVER, TIE BARS OR HOOK BOLTS SHALL BE ADMITTED WHEN THE VERTICAL OVERLAP ("V" IN DETAIL BELOW)BETWEEN THE CURB-AND-GUTTER AND RIGID PAVEMENT IS LESS THAN 7".

TYPE 2 CURB

NOT TO SCALE

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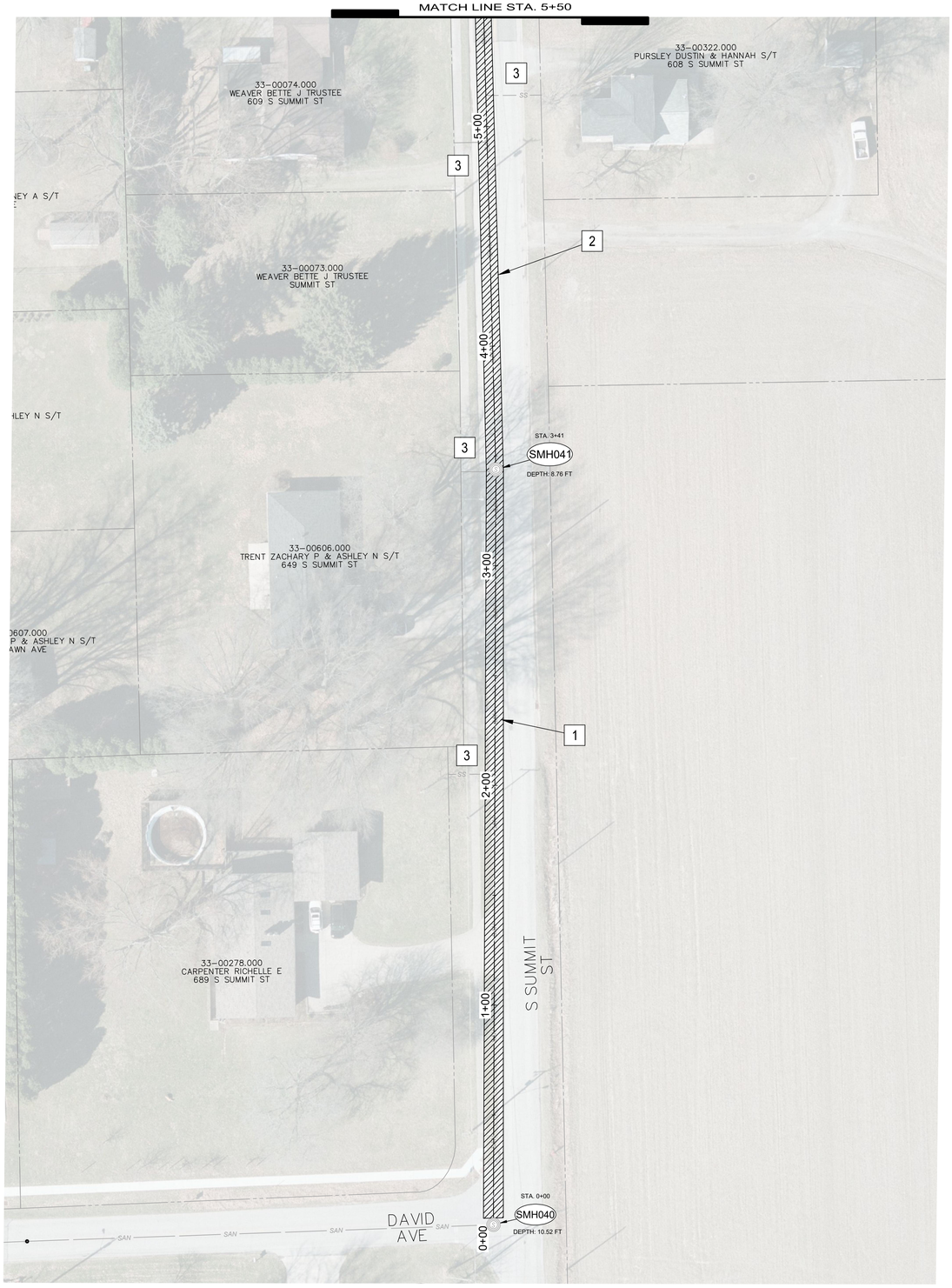
VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

CONSTRUCTION DETAILS

PROJECT NO. 232640
DISCIPLINE GENERAL
SHEET NAME 10C-01
SHEET 6 OF 14

H:\2023\232640\DWG\SHEETS\C_232640 - CONSTRUCTION DRAWING.DWG - G-02 - 8/11/2024 11:41:55 AM - ASHLEIGH MISCH



PLAN VIEW
STA 0+00 TO STA 5+50

CODED NOTES:

1. 341 FT OF 8" CIPP LINING FROM SMH040 TO SMH041
2. 423 FT OF 8" CIPP LINING FROM SMH041 TO SMH042
3. 4 LATERAL REINSTATEMENTS NEEDED

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VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
SMITHVILLE, OHIO
WAYNE COUNTY

PLAN AND PROFILE S SUMMIT ST STA. 0+00 TO 5+50

PROJECT NO.
232640
DISCIPLINE
CIVIL
SHEET NAME
10C-02
SHEET 7 OF 14

PLAN VIEW
STA 5+50 TO STA10+50

CODED NOTES:

1. REMOVE/ REPLACE EXISTING WYE WITH NEW WYE PER DETAIL ON SHEET 6 AT STA. 6+07
2. SEE SHEET 11
3. 4 LATERAL REINSTATEMENTS NEEDED

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VILLAGE OF SMITHVILLE
2024 SANITARY SEWER REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

PLAN AND PROFILE S SUMMIT ST
STA. 5+50 TO 10+50

PROJECT NO.
232640
DISCIPLINE
CIVIL
SHEET NAME
10C-03
SHEET 8 OF 14

PLAN VIEW
STA 10+50 TO STA 15+50

CODED NOTES:

1. 298 FT OF 8" CIPP LINING FROM SMH043 TO SMH044
2. REMOVE/ REPLACE EXISTING WYE WITH NEW WYE PER DETAIL ON SHEET 6 AT STA. 12+14
3. 7 LATERAL REINSTATEMENTS NEEDED

30' 0' 30'
SCALE: 1" = 30'

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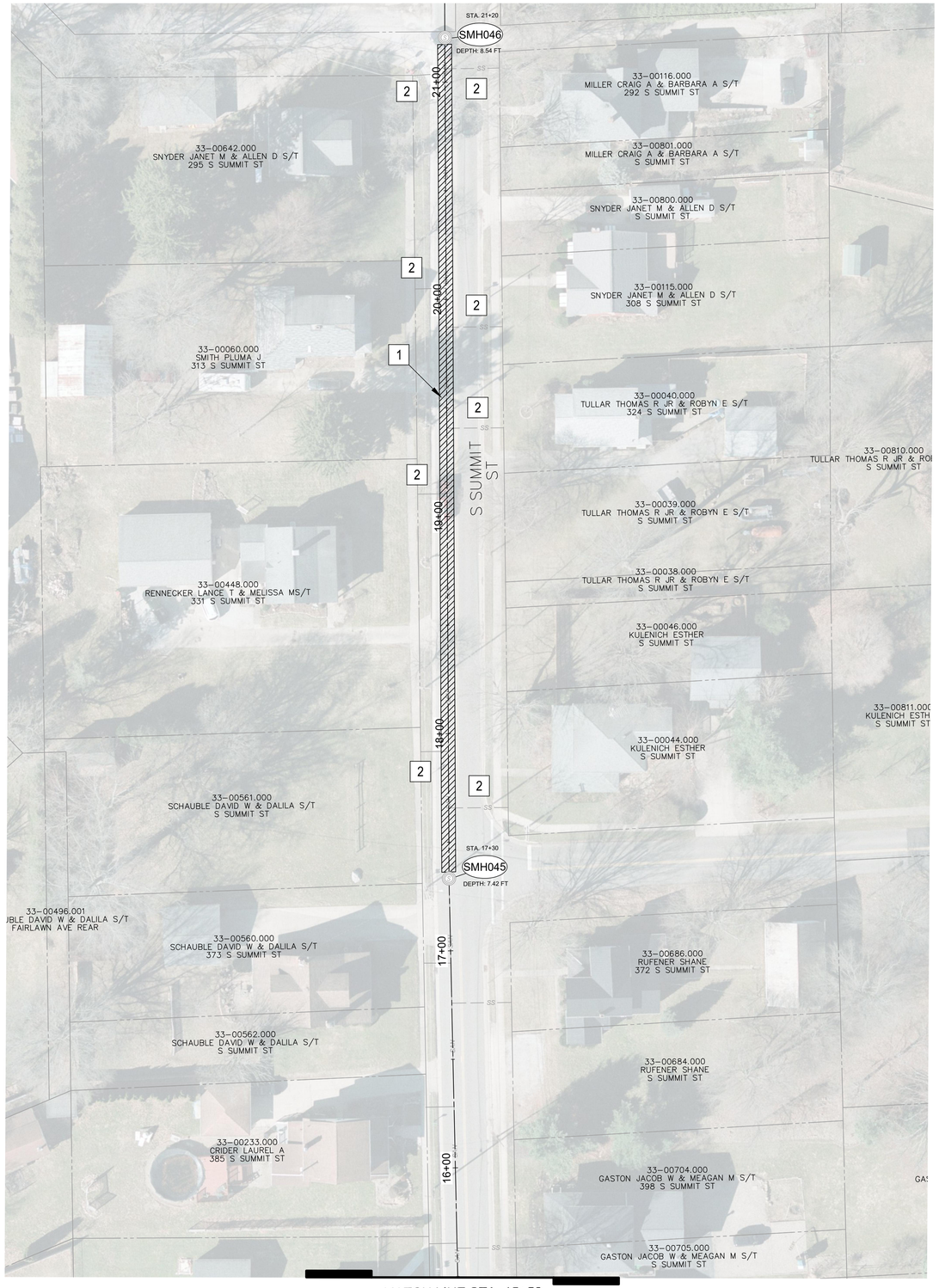
2024 SANITARY SEWER
REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

PLAN AND PROFILE S SUMMIT ST
STA. 10+50 TO 15+50

PROJECT NO. 232640
DISCIPLINE: CIVIL
SHEET NAME: 10C-04
SHEET 9 OF 14



MATCH LINE STA. 15+50

PLAN VIEW
STA 15+50 TO STA 21+22

CODED NOTES:

1 390 FT OF 8" CIPP LINING FROM SMH045 TO SMH046

2 8 LATERAL REINSTATEMENTS NEEDED

SCALE: 1" = 30'

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PLAN AND PROFILE S SUMMIT ST STA. 15+50 TO 21+22

PROJECT NO.	
232640	
DISCIPLINE	
CIVIL	
SHEET NAME	
10C-05	
SHEET	OF
10	14

CODED NOTES:

1. 273 FT OF 8" CIPP LINING FROM SMH032 TO SMH033
2. 326 FT OF 8" CIPP LINING FROM SMH032 TO SMH042
3. SEE SHEET 8
4. 7 LATERAL REINSTATEMENTS NEEDED

PLAN VIEW
FAIRLAWN AVE: STA 0+00 TO STA 2+72
WILSON ST: STA 0+00 TO STA 3+26

SCALE: 1" = 30'

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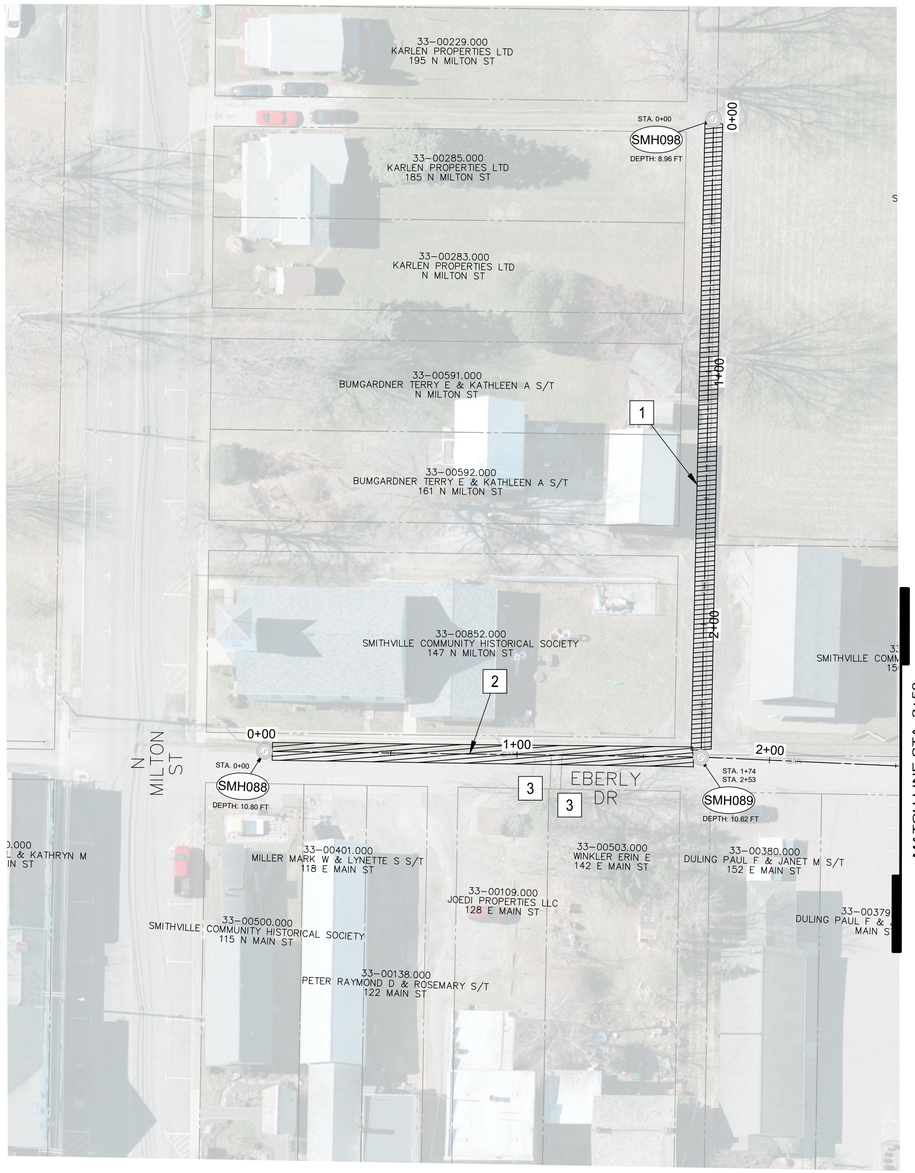
WAYNE COUNTY SMITHVILLE, OHIO

PLAN AND PROFILE FAIRLAWN AVE AND WILSON ST

PROJECT NO. 232640
DISCIPLINE CIVIL
SHEET NAME 10C-06
SHEET 11 OF 14



PLAN VIEW
EBERLY DR: STA 0+00 TO STA 2+50
STA 0+00 TO STA 2+53

CODED NOTES:

1. 253 FT OF 8" CIPP LINING FROM SMH098 TO SMH089
2. 174 FT OF 8" CIPP LINING FROM SMH088 TO SMH089
3. 2 LATERAL REINSTATEMENTS NEEDED

30' 0' 30'
SCALE: 1" = 30'

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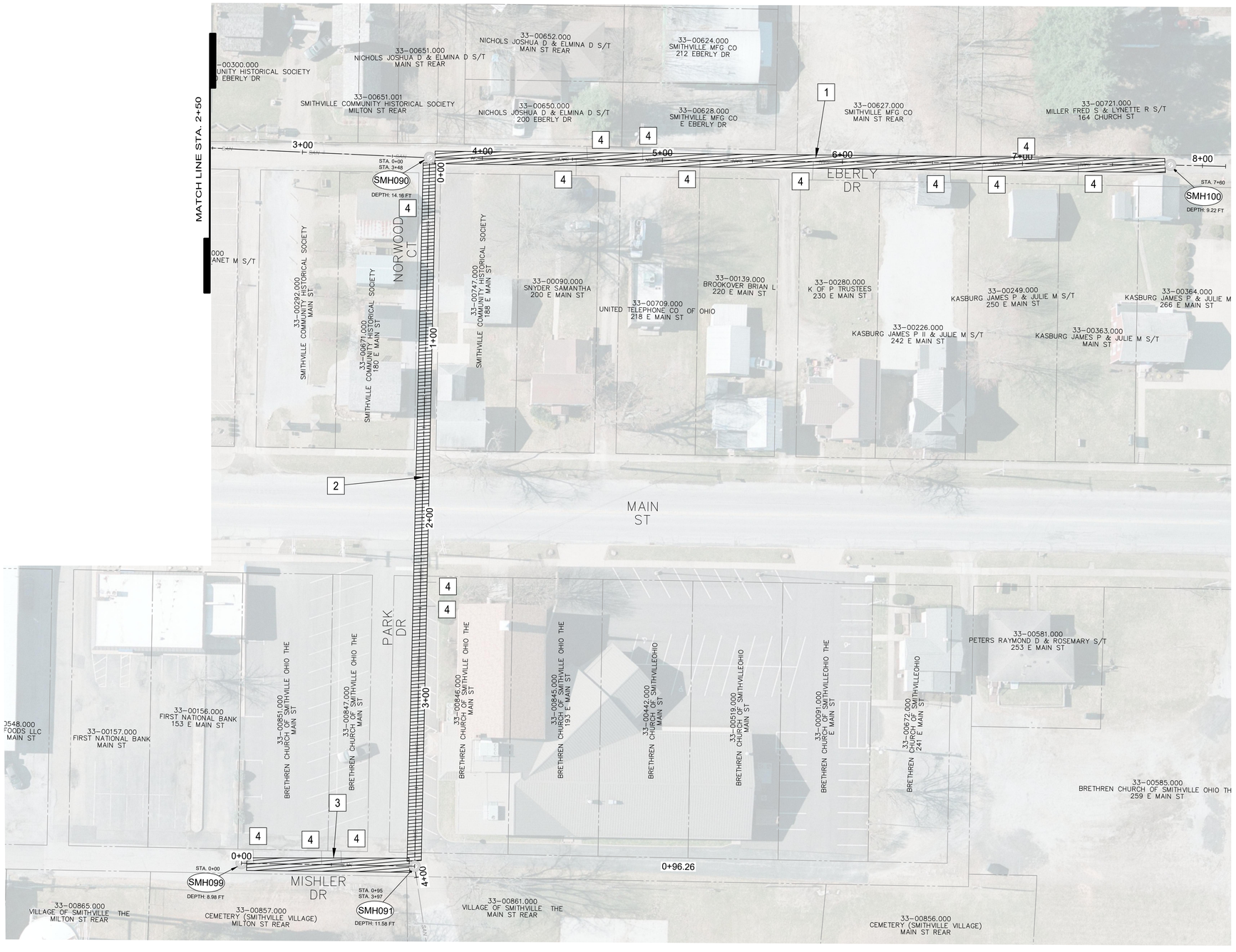
PLAN AND PROFILE EBERLY DR
STA. 0+00 TO 3+00

PROJECT NO.
232640
DISCIPLINE
CIVIL
SHEET NAME
10C-07
SHEET 12 OF 14



CODED NOTES:

1. 560 FT OF 8" CIPP LINING FROM SMH100 TO SMH090
2. 397 FT OF 8" CIPP LINING FROM SMH090 TO SMH091
3. 95 FT OF 8" CIPP LINING FROM SMH099 TO SMH091
4. 15 LATERAL REINSTATEMENTS NEEDED

PLAN VIEW
EBERLY DR: STA 2+50 TO STA 7+60
NORWOOD CT/ PARK DR: STA 0+00 TO STA 3+97
MISHLER DR: STA 0+00 TO STA 0+95

30' 0' 30'
SCALE: 1" = 30'

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VILLAGE OF SMITHVILLE
2024 SANITARY SEWER
REHABILITATION PROJECT
WAYNE COUNTY SMITHVILLE, OHIO

PLAN AND PROFILE EBERLY DR, NORWOOD CT, PARK DR, AND MISHLER DR

PROJECT NO. 232640
DISCIPLINE CIVIL
SHEET NAME 10C-08
SHEET 13 OF 14

POINT REPAIR SCHEDULE

US MH	DS MH	US STA.	DS STA.	DESCRIPTION	US STA. (AS-BUILT)	DS STA. (AS-BUILT)
SMH041	SMH042	6+29	6+35	WYE CONNECTION		
SMH043	SMH044	12+10	12+16	WYE CONNECTION		

CIPP LINEAR SCHEDULE

US MH	DS MH	US STA.	DS STA.	EXISTING PIPE SIZE (INCHES)	PROPOSED THICKNESS (MM)	THICKNESS (AS BUILT)
SMH040	SMH041	0+00	3+41	8	6.0000	
SMH041	SMH042	3+41	7+64	8	6.0000	
SMH043	SMH044	11+60	14+58	8	6.0000	
SMH045	SMH046	17+30	21+20	8	6.0000	
SMH032	SMH033	2+73	0+00	8	6.0000	
SMH032	SMH042	0+00	3+26	8	6.0000	
SMH088	SMH089	0+00	1+74	8	6.0000	
SMH098	SMH089	0+00	2+53	8	6.0000	
SMH100	SMH090	7+60	3+48	8	6.0000	
SMH091	SMH090	3+97	0+00	8	6.0000	
SMH099	SMH091	0+00	0+95	8	6.0000	

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VILLAGE OF SMITHVILLE
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WAYNE COUNTY SMITHVILLE, OHIO

IMPROVEMENTS SCHEDULE

PROJECT NO.
232640
DISCIPLINE
GENERAL
SHEET NAME
10C-09
SHEET 14 OF 14