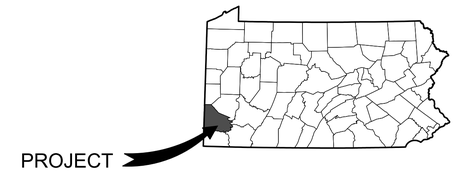
MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA

MARION AVE / HILLTOP AREA SEWER SEPARATION PROJECT

ISSUED FOR BIDDING - MAY 2026



KEY MAP
NOT TO SCALE

STEVE WALKO
CHAIRMAN

THOMAS SALAK
VICE-CHAIRMAN

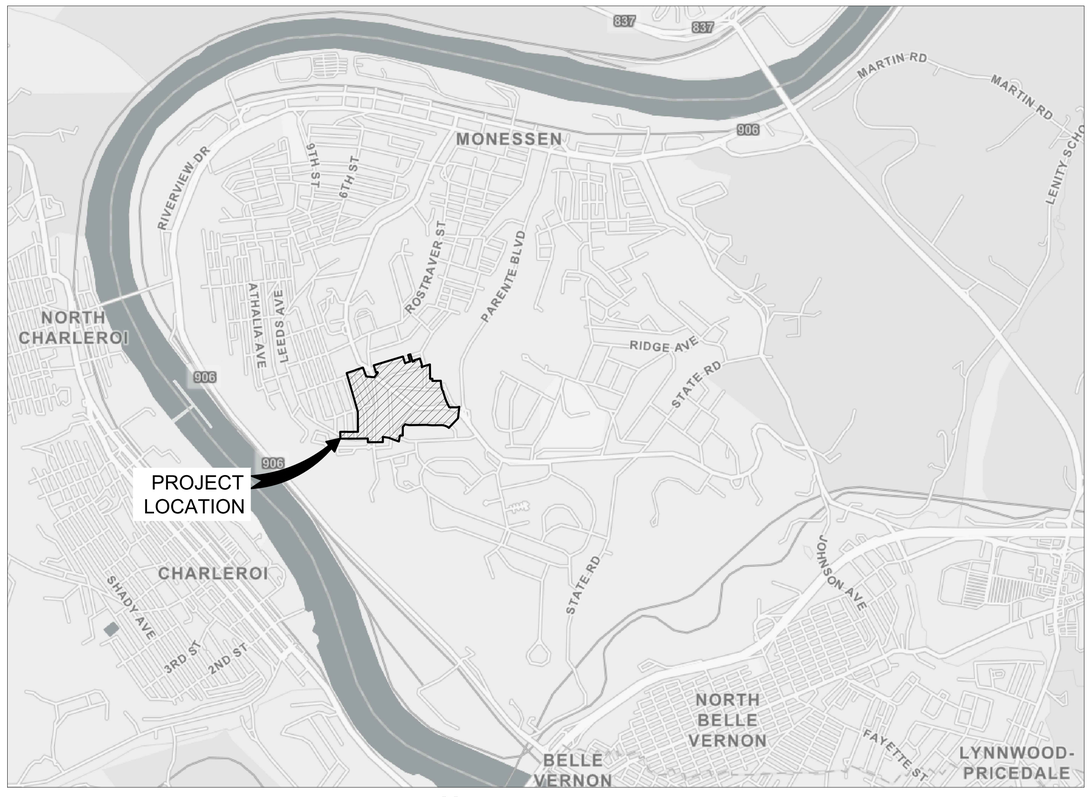
LEWIS MARRACCINI
SECRETARY/TREASURER

PAUL BERARDELLI
ASSISTANT SECRETARY/TREASURER

DENNIS WINCE
BOARD MEMBER

SEAN GASKILL
GENERAL MANAGER

JEFF KUBASIAK
CHIEF OPERATOR



N

LOCATION MAP
SCALE: 1"= 1,320'

Pennsylvania 811

Know what's **below.**
Call before you dig.
Dial 8-1-1 or 1-800-242-1776
Project Serial Number: 20253490894-000, 20261323716-000

PRELIMINARY
NOT FOR CONSTRUCTION

REV#	DATE	DESCRIPTION	BY

WADE TRIM
Wade Trim, Inc.
Four Gateway Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
412.454.5566 | www.wadetrim.com

SEAL

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE088532

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
1 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PROJECT MANAGER:
CREATED BY: C:\USERS\CJCACDOCS\WADE TRIM\S2026\26-PROJECT FILES\WT\DESIGN\CAD\SHEETS\SHT-2CS-COVERSHEET.DWG,PLOTTED 5/6/2026 10:51 AM BY WHALEY, RUSSELL

GENERAL NOTES:

1. THE CONTRACT DRAWINGS ARE INTENDED TO EXPLAIN THE VARIOUS TYPES OF WORK AND AS SUCH, ARE INTERRELATED. WHILE IT IS INTENDED THAT DISCREPANCIES BETWEEN THE DRAWINGS WILL NOT OCCUR, THERE IS A LIKELIHOOD THAT FIELD ADJUSTMENTS AND CORRECTIONS WILL BE REQUIRED IN THE INTERPRETATION OF THE DOCUMENTS FROM TIME TO TIME.

2. IT IS THE INTENT OF THE CONTRACT DRAWINGS TO PROVIDE DETAILED GUIDANCE AS TO WHAT MUST BE CONSTRUCTED. HOWEVER, THE MEANS AND METHODS OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE ENTIRE SET OF CONTRACT DRAWINGS PRIOR TO UNDERTAKING CONSTRUCTION IN ANY AREA SO AS TO ASSURE HIMSELF TO THE COMPLETENESS AND CORRELATION OF THE WORK TO BE PERFORMED.

3. THE CONTRACTOR SHALL BE REQUIRED TO VISIT THE SITE OF THE WORK PRIOR TO PREPARING A BID IN ORDER TO UNDERSTAND THE DIFFICULTIES ATTENDANT TO THIS PROJECT FROM THE STANDPOINT OF THE FOLLOWING:

   - PUBLIC SAFETY RELATED TO ON AND OFF-SITE TRAFFIC AND THE USAGE OF CITY ROADWAYS
   - EXISTING STRUCTURES, ABOVE AND BELOW GROUND
   - APPARENT UNDERGROUND UTILITIES

   THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL SECTIONS OF THE CONTRACT SPECIFICATIONS. WHENEVER A CONFLICT OCCURS BETWEEN THE REQUIREMENTS SHOWN ON THE CONTRACT DRAWINGS, THOSE SPECIFIED, OR THOSE INDICATED BY ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL ASSUME THAT THE MOST SEVERE REQUIREMENT WILL BE IMPOSED AND PREPARE THE BID ACCORDINGLY.

4. CERTAIN UNFORESEEN CONDITIONS MAY OCCUR AT ANY POINT AND SUCH CONDITIONS MAY REQUIRE CLOSE INTERACTION BETWEEN THE OWNER, THE ENGINEER, THE CONTRACTOR, AND THE VARIOUS REGULATORY AGENCIES IN ORDER TO RESOLVE PROBLEMS THAT MAY OCCUR AS A RESULT. EVERY EFFORT WILL BE MADE TO RESOLVE THESE PROBLEMS IN A TIMELY MANNER CONSISTENT WITH GOOD ENGINEERING PRACTICES AND ECONOMIES OF BOTH TIME AND MONEY TO THE SATISFACTION OF ALL PARTIES CONCERNED.

5. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO FULLY SHOW THE REMOVAL/DEMOLITION OF EXISTING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE, WHENEVER SUCH EXISTING CONSTRUCTION IS WITHIN THE WORK AREA. THE WORK AREA SHALL INCLUDE ALL SUCH AREAS SUBJECT TO EARTHWORK OR PIPELINE CONSTRUCTION.

6. THE EXISTING EQUIPMENT, PIPING, ETC., TO BE REMOVED SHALL BE INSPECTED BY THE OWNER AND/OR ENGINEER WHO MAY THEN DECIDE WHETHER OR NOT TO SALVAGE SAID ITEMS. THE CONTRACTOR SHALL DELIVER ALL SALVAGED ITEMS TO AN ON-SITE LOCATION DESIGNATED BY THE OWNER. IF THE OWNER DECIDES THAT THE ITEMS ARE NOT SALVAGEABLE, THE CONTRACTOR SHALL DISPOSE OF THE ITEMS OFF-SITE AT NO ADDITIONAL COST TO THE OWNER.

7. ALL EARTHWORK ACTIVITIES SHALL COMPLY WITH THE WESTMORELAND COUNTY SOIL CONSERVATION DISTRICT'S RULES AND REGULATIONS GOVERNING EROSION AND SEDIMENTATION CONTROL.

8. ONSITE SPACE FOR TRAILER EQUIPMENT STORAGE, STOCKPILING AND OTHER TEMPORARY CONSTRUCTION ACTIVITIES IS LIMITED. IF CONTRACTOR REQUIRES ADDITIONAL SPACE THEY SHALL OBTAIN IT WITH NO ADDITIONAL COST TO THE OWNER. SPACE REQUIRED FOR TEMPORARY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION.

9. THE LOCATIONS AND ELEVATIONS OF EXISTING PIPES AND OTHER FACILITIES ARE SHOWN ESTIMATED ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL DIG AN ADEQUATE NUMBER OF TEST PITS TO ACCURATELY DETERMINE THE POSITION OF THE EXISTING FACILITIES WHERE CONNECTIONS ARE REQUIRED WITH NEW PIPES OR WHERE EXISTING PIPES MAY POSE AN INTERFERENCE WITH NEW PIPES AND FACILITIES.

10. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING PIPELINES AND STRUCTURES DURING THE INSTALLATION OF THE NEW WORK.

11. ALL LOCATIONS, DIMENSIONS, AND ANGLES OF NEW FACILITIES TO BE FIELD VERIFIED BY THE CONTRACTOR. MINOR ADJUSTMENTS MAY BE REQUIRED TO AVOID POSSIBLE CONFLICTS WITH EXISTING FACILITIES. THIS WORK SHALL BE INCIDENTAL TO THE WORK IN THE LUMP SUM BID PRICE.

12. THE SITE PIPING PLAN INDICATES THE APPROXIMATE LOCATION OF EXISTING PIPING. THE CONTRACTOR SHALL LOCATE ALL EXISTING PIPING BY TEST PIT AND/OR TEST TRENCH IN ORDER TO AVOID POSSIBLE CONFLICTS WITH NEW PIPING. SUCH WORK IS TO BE COMPLETED WELL IN ADVANCE OF THE INSTALLATION OF THE NEW PIPES SO THAT MINOR ADJUSTMENTS CAN BE MADE PRIOR TO THE ACTUAL CONNECTION. THE COSTS FOR ALL TEST PITS AND TRENCHES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.

13. THIS PROJECT IS SUBJECT TO INSPECTION BY AUTHORIZED REPRESENTATIVES OF ALL GOVERNING AUTHORITIES, FEDERAL, STATE, AND LOCAL. THE CONTRACTOR SHALL PROVIDE CONTROLLED SITE ACCESS FOR INSPECTION PURPOSES TO AUTHORIZED REPRESENTATIVES AT ALL TIMES. AUTHORIZED REPRESENTATIVES WILL DISPLAY PROPER CREDENTIALS WHEN ACCESSING AND WHILE ON SITE.

14. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE RESIDENT PROJECT REPRESENTATIVE. THE RPR WILL ASSIST THE CONTRACTOR IN COORDINATING THE WORK WITH PLANT OPERATIONS AND MAINTENANCE. EXCEPT FOR EMERGENCIES, ALL COORDINATION WITH THESE ENTITIES SHALL BE MADE THROUGH THE RPR.

15. THE CONTRACTOR SHALL ATTEND THE PRE-CONSTRUCTION MEETING, AND ALL SCHEDULED COORDINATION AND CONSTRUCTION PROGRESS MEETINGS.

16. ALL CONTRACTOR AND SUBCONTRACTOR PERSONNEL, VEHICLES, EQUIPMENT, AND MATERIALS SHALL REMAIN WITHIN THE LIMITS OF CONSTRUCTION AND WITHIN THE SITE ACCESS DESIGNATED ON THE PLANS.

17. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING OFF-SITE HAUL ROUTES WITH THE APPROPRIATE AUTHORITIES. ALL WASTE SHALL BE DISPOSED OF OFF-SITE. ANY OFF-SITE WASTE AREA(S) USED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SAFETY AND SECURITY:

1. CONSTRUCTION BARRICADES, BARRIERS, AND SIGNAGE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RPR. ADDITIONAL BARRICADES SHALL BE PLACED TO MARK ALL OPEN EXCAVATIONS, PAVEMENT-DROP-OFFS, OR OTHER POTENTIALLY HAZARDOUS CONDITIONS DURING DEMOLITION AND CONSTRUCTION.

2. THE STORAGE, TRANSPORT, OR USE OF EXPLOSIVES IS EXPLICITLY FORBIDDEN ON THE PLANT PROPERTY.

3. THE CONTRACTOR SHALL PROVIDE CONTACT INFORMATION FOR AT LEAST THREE EMERGENCY CONTACT PERSONNEL, OF WHICH ONE MUST BE THE PROJECT SUPERINTENDENT. THESE INDIVIDUALS MUST BE ON CALL 24 HOURS PER DAY, 7 DAYS PER WEEK IN THE EVENT OF AN EMERGENCY OR SITUATION THAT REQUIRES AN IMMEDIATE RESPONSE.

4. THE RESIDENT PROJECT REPRESENTATIVE HAS THE AUTHORITY TO IMMEDIATELY, AND FOR UNLIMITED DURATION, REQUIRE THE CONTRACTOR TO CEASE OPERATIONS IF, IN THE OPINION OF THE RPR, THE CONTRACTOR IS PERFORMING WORK IN A MANNER THAT IMPACTS THE SAFETY AND/OR SECURITY OF SITE OPERATIONS.

5. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR MAY BE REQUIRED TO BACKFILL OPEN EXCAVATIONS AND VACATE THE SITE. IN SUCH INSTANCES, THE CONTRACTOR SHALL RESPOND IMMEDIATELY AS ADVISED BY THE RPR.

EXISTING UTILITIES:

1. THESE DRAWINGS SHOW ALL UTILITIES, WATER, GAS, AND SEWER LINES KNOWN TO EXIST WITHIN THE CONSTRUCTION AREA. HOWEVER, THIS DOES NOT GUARANTEE THAT ALL EXISTING LINES AND APPURTENANCES HAVE BEEN SHOWN ON THE DRAWINGS, AND THE OWNER OR ANY REPRESENTATIVE OF THE OWNER ASSUMES NO RESPONSIBILITY THEREOF AND DOES NOT FREE THE CONTRACTOR FROM NECESSARY PRECAUTIONS FROM THE PROTECTION OF ANY UTILITY ENCOUNTERED ON THE PROJECT OR THE RESTORATION OF ANY UTILITY DAMAGED DURING THE WORK.

2. THE CONTRACTOR SHALL NOTIFY AT LEAST 48 HOURS BEFORE BREAKING GROUND, ALL PUBLIC AND/OR PRIVATE SERVICE CORPORATIONS HAVING WIRE, POLES, PIPES, CONDUIT, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH MAY BE AFFECTED AND NOT SHOWN ON THESE PLANS.

3. ALL MAINTENANCE, REPAIR AND/OR REPLACEMENT OF EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE VARIOUS UTILITY COMPANIES HAVING JURISDICTION.

4. ALL EXISTING STORM SEWERS, PAVEMENT DRAINS AND OTHER SURFACE DRAIN PIPES, WHETHER SHOWN ON THE DRAWINGS OR NOT, REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND RECONNECTED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

5. CONTRACTOR SHALL NOTIFY PENNSYLVANIA ONE CALL SYSTEM, INC. AT LEAST 48 HOUR IN ADVANCE OF ANY WORK IN THIS AREA SO APPROPRIATE MARKING OF EXISTING UTILITIES CAN BE MADE. CALL 811 OR 1-800-241-1776 OR LOG ON TO WWW.PA1CALL.ORG.

MAINTAINING FLOW:

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, THROUGHOUT THE TENURE OF THIS CONTRACT, TO PROVIDE AND MAINTAIN SUFFICIENT FLOW AT ALL TIMES TO PASS ANY FLASH OR STORM FLOW OF CREEKS AND DRAINAGE DITCHES AND PREVENT ANY BACKWATER FLOODING DUE TO OBSTRUCTION CAUSED BY CONSTRUCTION EQUIPMENT AND/OR MATERIALS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROHIBITING STORM OR SUBSURFACE WATER FROM ENTERING THE SANITARY SEWER DURING CONSTRUCTION AS MAY BE CAUSED BY FLASH FLOODS, HEAVY RAINS, ETC.

SUGGESTED SEQUENCE OF CONSTRUCTION:

1. REFERENCE SPECIFICATION SECTION 01 11 20 -SUGGESTED SEQUENCE OF CONSTRUCTION.

PAVEMENT NOTES:

1. ALL PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL STANDARDS FOR PAVEMENT REMOVAL AND REPLACEMENT. SEE SHEETS 51, 52, 53 FOR DETAILS.

2. AT INDICATED PAVEMENT RESTORATION AREAS CONTRACTOR TO REMOVE PAVEMENT AS NEEDED FOR RESTORATION. CONTRACTOR SHALL MATCH GRADE OF EXISTING PAVEMENT.

SURVEY NOTES:

1. SURVEYS ARE BASED ON THE NATIONAL GEODETIC REFERENCE SYSTEM (FORMERLY USC&GS) AND PERFORMED BY WADE TRIM IN JANUARY 2026.

2. THE HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM ISPSC 83 PA SOUTH ZONE.

3. VERTICAL CONTROL IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

4. BENCHMARKS ARE PROVIDED ON SHEET 4.

NOTIFICATIONS:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL UTILITY LOCATIONS AND DEPTHS WITHIN THE WORK AREA PRIOR TO CONSTRUCTION. CONTRACTOR MUST INITIATE A ONE CALL TICKET AND HAVE ALL UTILITIES LOCATED PRIOR TO BEGINNING ANY EXCAVATION WORK. ENTITIES KNOWN TO HAVE UNDERGROUND FACILITIES WITHIN THE WORK AREA INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

UTILITY OWNERS:
COMPANY CONTACT TELEPHONE NUMBER
WATER AUTHORITY OF THE BOROUGH OF CHARLEROI MICHAEL KALAMARAS (724) 483-3585
VERIZON PENNSYLVANIA DEBORAH BARUM (412) 344-3901
PEOPLES GAS COMPANY TODD COEN (412) 258-4415
FIRSTENERGY CORPORATION MELLYSSA ADAMS (330) 604-4073
MONESSEN CITY ROD FREEMAN (724) 684-7810
MON VALLEY SEWAGE AUTHORITY SEAN GASKILL (724) 379-4141

2. THE CONTRACTOR WILL NOTIFY THE PROPERTY OWNERS, 48 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL NOT RESTRICT ACCESS, DELIVERY, ETC. TO THE PROPERTIES AND WILL MAINTAIN SAFE AND DIRECT ACCESS AT ALL TIMES.

3. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

4. NOTIFY THE FOLLOWING:
FIRE DEPARTMENT (724) 684-7272
EMERGENCY MEDICAL SERVICES (724) 684-7600
POLICE DISPATCH CENTER (724) 684-4620
WESTMORELAND COUNTY (724) 830-3000
NO LESS THAN 48 HOURS IN ADVANCE OF ANTICIPATED DISRUPTION TO THE NORMAL FLOW OF TRAFFIC, INCLUDING LANE CLOSURES, DETOURS AND SIGNAL WORK

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GENERAL NOTES & INDEX

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30% DESIGN	03/09/26	CJ
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PERMITS	04/24/26	CJ
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BID	05/07/26	CJ

JOB NO. MVS2026.02H

SHEET 2 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PROJECT MANAGER:
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EXISTING CONDITIONS LEGEND

LINE WORK

- BOUNDARY
- RIGHT OF WAY — R/W
- PROPERTY LINE
- BUILDING SETBACK
- BUILDING
- CURB & GUTTER
- STRAIGHT CURB
- EDGE OF GRAVEL
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- WOOD FENCE
- FIELD LINE — F — F
- GUARD RAIL
- TOP OF BANK
- DITCH CENTERLINE
- FLOODPLAIN LINE — FLP
- SHORE OR EDGE OF WATER
- WETLAND
- RETAINING / SCREEN WALL
- RAILROAD TRACKS
- EDGE OF WOODS
- EDGE OF BRUSH
- EDGE OF HEDGE ROW
- TREE ROW
- MAJOR CONTOUR — 100
- MINOR CONTOUR — 101

HATCHING

- HMA SURFACE
- CONCRETE SURFACE
- AGGREGATE SURFACE
- BRICK PAVERS

TOPOGRAPHIC FEATURES

- SPOT ELEVATION + 100.59
- FOUND IRON ROD — IR
- SET IRON ROD — IR
- FOUND IRON PIPE — IP
- GOVERNMENT CORNER
- BENCHMARK — BM
- GPS MONUMENT — BOX
- PK NAIL — PK
- FOUND T IRON — IRON
- FOUND PINCHED IRON — PI
- FOUND SPIKE — SPK
- TRAVERSE POINT
- RIGHT-OF-WAY MARKER — RW
- UNDERGROUND MARKER — M
- SOIL BORING — SB
- AC UNIT — AC
- ANTENNA
- BASKETBALL POST — BP
- BILLBOARD SIGN BASE — SGNB
- CAMERA TOWER
- FILL PORT
- FLAG POLE — FP
- FOUNTAIN
- GAS PUMP
- LIGHT POLE BASE (NO LAMP)
- MAIL BOX — MB
- MONITORING WELL — MWELL
- NEWSPAPER BOX — NB
- OIL WELL — OW
- PIER — PIER
- PILING — PL
- PARKING METER — PM
- ROUND POST OR BOLLARD — P
- SQUARE POST — P
- ROCK — ROCK
- SATELLITE DISH
- SIGN POST — S
- TRAFFIC LIGHT SIGNAL
- WOOD STAKE — WS
- VOLLEY BALL POLE — VP
- TETHER BALL POLE — TP
- SWING SET
- CLIMBING BARS
- MERRY-GO-ROUND
- STRAIGHT SLIDE
- SPIRAL SLIDE
- CONIFEROUS TREE OR BUSH
- DECIDUOUS TREE OR BUSH
- STUMP

UTILITY LINE WORK

- WATER MAIN (UP TO 24") — W — W
- WATER MAIN (24" AND UP)
- GAS MAIN OR SERVICE — G — G
- SANITARY SEWER MAIN (UP TO 24") — SAN
- SANITARY SEWER MAIN (24" AND UP)
- SANITARY SEWER FORCE MAIN — FM — FM
- STORM SEWER LINE (UP TO 24") — ST — ST
- STORM SEWER LINE (24" AND UP)
- COMBINED SEWER LINE (UP TO 24") — CS
- COMBINED SEWER LINE (24" AND UP)
- OVERHEAD ELECTRIC — OH-E
- UNDERGROUND ELECTRIC — E — E
- OVERHEAD TELEPHONE — OH-T
- UNDERGROUND TELEPHONE — T — T
- FIBER OPTICS — FO — FO
- OVERHEAD UNKNOWN UTILITY — OHW
- OIL PIPE LINE — OIL — OIL

UTILITY SYMBOLS

- FIRE HYDRANT
- WATER VALVE IN BOX
- DOMESTIC WATER SHUT OFF — OR — WSO
- SPRINKLER HEAD — SH
- SPRINKLER JUNCTION BOX — JB
- POST INDICATOR VALVE
- GATE VALVE & WELL
- METER PIT — MP
- WATER METER — WM
- WATER FAUCET — WF
- SANITARY SEWER MANHOLE — S
- AIR RELEASE MANHOLE — A
- SANITARY SEWER CLEAN OUT — CO
- SANITARY PUMP STATION — PS
- SANITARY SEWER VENT — SV
- SANITARY SEWER SEPTIC TANK
- STORM CATCH BASIN (ROUND) — CB
- STORM CATCH BASIN (SQUARE) — CB
- STORM MANHOLE — ST
- DOWNSPOUT — DS
- STORM SEWER CLEAN OUT — CO
- STORM SEWER END SECTION
- STORM SEWER HEADWALL
- ELECTRIC METER — EM
- ELECTRIC MANHOLE — E
- UTILITY MANHOLE — U
- POWER PEDESTAL — PP
- ELECTRIC HAND HOLE — HH
- TRANSFORMER BOX — E
- POWER POLE
- UTILITY POLE
- POWER & LIGHT POLE
- TELEPHONE, POWER, & L.P.
- TELEPHONE & POWER POLE
- GUY ANCHOR — GA
- GUY POLE — GP
- DEADMAN ANCHOR — DA
- FLOOD LIGHT
- DECORATIVE LIGHT POLE
- LIGHT POLE
- METAL LIGHT POLE
- GAS METER — GM
- GAS MANHOLE — G
- TELEPHONE PEDESTAL — TP
- TELEPHONE POLE
- CTV PEDESTAL — CT

PROPOSED LEGEND

SITE LINE WORK

- CANOPY LIMITS
- BUILDING LINE
- CURB AND GUTTER
- STRAIGHT CURB
- CURB REPLACEMENT
- BUILDING SETBACK
- RIGHT OF WAY LINE — R/W
- RETAINING/SCREEN WALL
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- WOOD FENCE
- GUARD RAIL
- THICKENED EDGE CONCRETE
- STOP BAR
- CURB & GUTTER REMOVAL
- STRAIGHT CURB REMOVAL
- PAINT STRIPE REMOVAL
- UTILITY REMOVAL
- UTILITY ABANDON
- SAWCUT, FULL DEPTH
- TEMPORARY SILT FENCE
- MAJOR CONTOUR — 100
- MINOR CONTOUR — 101
- DRAINAGE SWALE
- SOIL TYPE LIMITS
- LIMITS OF DISTURBANCE/ PROJECT LIMITS

UTILITY LINE WORK

- WATER MAIN (UP TO 24") — W — W
- WATER MAIN (24" AND UP)
- SANITARY SEWER MAIN (UP TO 24") — SAN
- SANITARY SEWER MAIN (24" AND UP)
- SANITARY SEWER LATERAL
- LINE SANITARY SEWER LINE
- SANITARY SEWER FORCE MAIN — FM — FM
- STORM SEWER LINE (UP TO 24") — ST — ST
- STORM SEWER LINE (24" AND UP)
- LINE STORM SEWER LINE
- UNDERGROUND ELECTRIC — E — E
- OVERHEAD ELECTRIC — OH-E
- GAS MAIN OR SERVICE — G — G
- UNDERGROUND TELEPHONE — T — T
- OVERHEAD TELEPHONE — OH-T

SITE SYMBOLS

- REMOVAL ITEM — REM-XXX
- RELOCATE ITEM — REL-XXX
- ADJUST STRUCTURE — ADJ-XXX
- ABANDON ITEM — ABN
- RECONSTRUCT STRUCTURE — REC-XXX
- DECIDUOUS TREE/ BUSH REMOVAL
- CONIFEROUS TREE/BUSH REMOVAL
- STUMP REMOVAL
- FILTER BERM OR CHECK DAM
- TEMPORARY INLET PROTECTION
- EROSION CONTROL KEY (TEMPORARY) — ## T
- EROSION CONTROL KEY (PERMANENT) — ## P
- SOIL TYPE — XxX
- PARKING COUNT — #
- TRAFFIC FLOW ARROW
- SIGN AND SIGN POST — S
- BOLLARD — P
- ACCESSIBLE SYMBOL — OR
- DETECTABLE WARNING SURFACE
- CURB ELEVATION WHERE: T=TOP OF CURB G=GUTTER OR PVMT. — 100.50 T / 100.00 G
- THICKENED EDGE WALK ELEV. WHERE: T = TOP OF WALK P = PAVEMENT — 100.50 T / 100.00 P
- SPOT ELEV. — 100.00 XXX

WHERE XXX IS ONE OF THE FOLLOWING:

TOP OF CONCRETE ELEV.	TOC
FINISH GRADE ELEV.	FG
DOOR ELEV.	DOOR
RIM ELEV.	RIM
BACK OF CURB ELEV.	BOC
GUTTER ELEV.	GUT
MATCH EXISTING ELEV.	MATCH
TOP OF PAVEMENT ELEV.	T/P
TOP OF WALL ELEV.	TOW
BOTTOM OF WALL ELEV.	BOW
TOP OF BANK ELEV.	TOB
TOE OF SLOPE ELEV.	TOE
FINISH FLOOR ELEV.	FFE
ADJUST RIM ELEV.	ADJUST

- DRAINAGE FLOW
- DRAINAGE SLOPE — 1.0%
- FINISH GRADE SLOPE — 4:1
- HIGH POINT — H.P.
- GRADE BREAK — G.B.

LANDSCAPE HATCH

- PERENNIALS-1
- PERENNIALS-2
- GROUND COVER-1
- GROUND COVER-2
- SEED MIX-1
- SEED MIX-2
- MULCH
- ROCK
- LAWN

UTILITY SYMBOLS

- FIRE HYDRANT
- DOMESTIC WATER SHUT OFF — WSO
- FIRE DEPARTMENT CONNECTION
- BACK FLOW PREVENTER
- VALVE IN BOX
- VALVE IN WELL
- POST INDICATOR VALVE
- METER PIT — MP
- SANITARY SEWER MANHOLE (UP TO 6' DIA) — S
- SANITARY SEWER MANHOLE (OVER 6' DIA)
- SANITARY SEWER CLEAN OUT — CO
- SANITARY PUMP STATION — PS
- STORM CATCH BASIN (ROUND) (UP TO 6' DIA) — CB
- STORM CATCH BASIN (SQUARE) — CB
- STORM MANHOLE (UP TO 6' DIA) — ST
- STORM MANHOLE/CATCH BASIN (OVER 6' DIA)
- DOWNSPOUT — DS
- STORM SEWER END SECTION
- STORM SEWER CLEAN OUT — CO
- TRANSFORMER BOX — E
- POWER POLE
- ELECTRIC METER — EM
- ELECTRIC MANHOLE — E
- POWER PEDESTAL — PP
- DECORATIVE LIGHT POLE
- SINGLE LIGHT POLE
- PARKING LOT LIGHT POLE
- GAS METER — GM
- TELEPHONE PEDESTAL — TP

HATCHING

- CONSTRUCTION ENTRANCE
- STAGING/STOCK PILE AREA
- HMA SURFACE
- HEAVY DUTY HMA SURFACE
- CONCRETE SURFACE
- HEAVY DUTY CONCRETE
- DECORATIVE WALK/SURFACE
- AGGREGATE SURFACE
- PAINTED ISLAND
- ADA DETECTABLE WARNING
- ADA RAMP
- LANDSCAPED AREA
- BUILDING REMOVAL
- HMA SURFACE REMOVAL
- CONCRETE SURFACE REMOVAL
- AGGREGATE SURFACE REMOVAL
- WOODED AREA REMOVAL

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STANDARD ABBREVIATIONS

ABAN	ABANDON	BOW	FINISH GRADE AT BOTTOM OF WALL	DWG	DRAWING	GPM	GALLONS PER MINUTE	MIN	MINIMUM	Q	RATE OF FLOW	TOE	TOE OF SLOPE
ALI	ALIGNMENT	CB	CATCH BASIN	E	EASTING	GUT	GUTTER	MDF	MAIN DISTRIBUTION FRAME	R	RADIUS	TOF	TOP OF FLANGE
APPD	APPROVED	℄	CENTERLINE	E-E	EDGE TO EDGE	GV	GATE VALVE	N	NORTHING	REF	REFERENCE	TOW	TOP OF WALL
APPROX	APPROXIMATE	CMP	CORRUGATED METAL PIPE	EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE	NG	NATURAL GAS	ROW	RIGHT OF WAY	T/P	TOP OF PAVEMENT
HMA	HOT MIX ASHPALT	CO	CLEAN OUT	EOP	EDGE OF PAVEMENT	HP	HIGH POINT	NTS	NOT TO SCALE	RCP	REINFORCED CONCRETE PIPE	TW	TOP OF WALK
B	BOTTOM	CONC	CONCRETE	ESMT	EASEMENT	HOR	HORIZONTAL	OH	OVERHEAD	RR	RAILROAD	U/G	UNDERGROUND
B-B	BACK TO BACK	CS	COMBINED SEWER	EXC	EXCAVATE	HYD	HYDRANT	PG	PLAN GRADE	SAN	SANITARY SEWER	UE	UNDERGROUND ELECTRIC
BDRY	BOUNDARY	CW	COLD WATER	FFE	FINISHED FLOOR ELEVATION	INT	INTERSECTION	PH	PHASE	ST	STORM SEWER	UTIL	UTILITY
BF	BARRIER FREE	DA	DRAINAGE AREA	FG	FINISHED GRADE	INV	INVERT	PI	POINT OF INTERSECTION	SW	SIDEWALK	VC	VERTICAL CURVE
BIT	BITUMINOUS	DEMO	DEMOLITION	FO	FIBER OPTIC	IW	INDUSTRIAL WASTE	PIV	POST INDICATOR VALVE	T	TOP	VERT	VERTICAL
BLDG	BUILDING	DI	DUCTILE IRON	FOC	FACE OF CURB	LF	LINEAL FEET	℄	PROPERTY LINE	T/C	TOP OF CURB	W	WATER
BM	BENCHMARK	DS	DOWNSPOUT	FW	FIRE WATER	LP	LOW POINT	PRV	PRESSURE REDUCING VALVE	TOB	TOP OF BANK	WT	WADE TRIM
BO	BY OTHERS	DW	DOMESTIC WATER	GB	GRADE BREAK	MATCH	MATCH EXISTING	PVI	POINT OF VERTICAL INTERSECTION	TOC	TOP OF CONCRETE		
BOC	BACK OF CURB			GDR	GUARD RAIL	MAX	MAXIMUM						

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JASON J. MCBRIDE — ENGINEER — PE095553

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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GENERAL LEGEND & ABBREVIATIONS

ISSUED FOR:	DATE:	BY:
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JOB NO. MVS2026.02H

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CONTROL POINT INFORMATION				
NAME	ELEVATION	NORTHING	EASTING	DESCRIPTION
TRA110	1073.25'	302863.90'	1371361.02'	SET BAR WITH CAP 70 FEET SOUTHEAST OF THE CENTER OF INTERSECTION OF CEMETERY ST AND COOLIDGE AVE. 10 FEET SOUTH OF THE SOUTH EDGE OF COOLIDGE AVE.
TRA111	1133.28'	1133.28'	1370972.19'	SET BAR WITH CAP 3 FEET EAST OF THE EAST EDGE OF ROSTRAVER ST AND 8 FEET SOUTH OF THE CENTER OF LEEDS AVE.
TRA102	1132.355'	304029.805'	1370803.78'	SET PK NAIL IN ASPHALT PARKING LOT 21 FEET NORTH/EAST OF THE CENTER OF ARLINGTON ST AND 66 FEET SOUTH OF A UTILITY POLE AT THE SOUTHEAST INTERSECTION CORNER OF ARLINGTON ST AND MARION AVE.
TRA103	1131.728'	303475.569'	1370907.366'	SET BAR WITH CAP 0.5 FEET SOUTH OF OF THE SOUTH EDGE OF DOWLING AVE AND 25 FEET NORTHWEST OF THE NORTHWEST CORNER OF HOUSE #1501 ROSTRAVER ST
TRA104	1087.666'	303888.461'	1371181.551'	SET BAR AND CAP 4 FEET NORTH OF THE NORTH EDGE OF GRAND BLVD AND 28 FEET EAST OF THE CENTER OF SHRADER AVE.
TRA106	1117.985'	304171.925'	1371939.054'	SET PK NAIL IN THE TOP OF CURB ON THE EAST SIDE OF CROSS STREET OPPOSITE THE CENTER OF SHRADER AVE.
TRA107	1067.314'	303734.298'	1371910.391'	SET PK NAIL IN THE TOP OF CURB ON THE SOUTH SIDE OF MEADOW AVE OPPOSITE THE CENTER OF CROSS ST.
TRA108	1006.82'	303384.713'	1371705.116'	SET PK NAIL IN THE TOP OF CURB ON THE SOUTH/EAST SIDE OF CEMETERY ST AND 19 FEET SOUTHWEST OF A CATCH BASIN IN THE SOUTHEAST INTERSECTION CORNER OF CEMETERY ST AND GRAND BLVD.
TRA109	944.00'	303634.535'	1372575.232'	SET BAR WITH CAP 6 FEET WEST OF THE WEST EDGE OF PARENTE BLVD AND 230 FEET NORTH OF THE CENTER OF INTERSECTION OF PARENTE BLVD AND FRANTZ ST.

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SURVEY COORDINATE CONTROL PLAN

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REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085532

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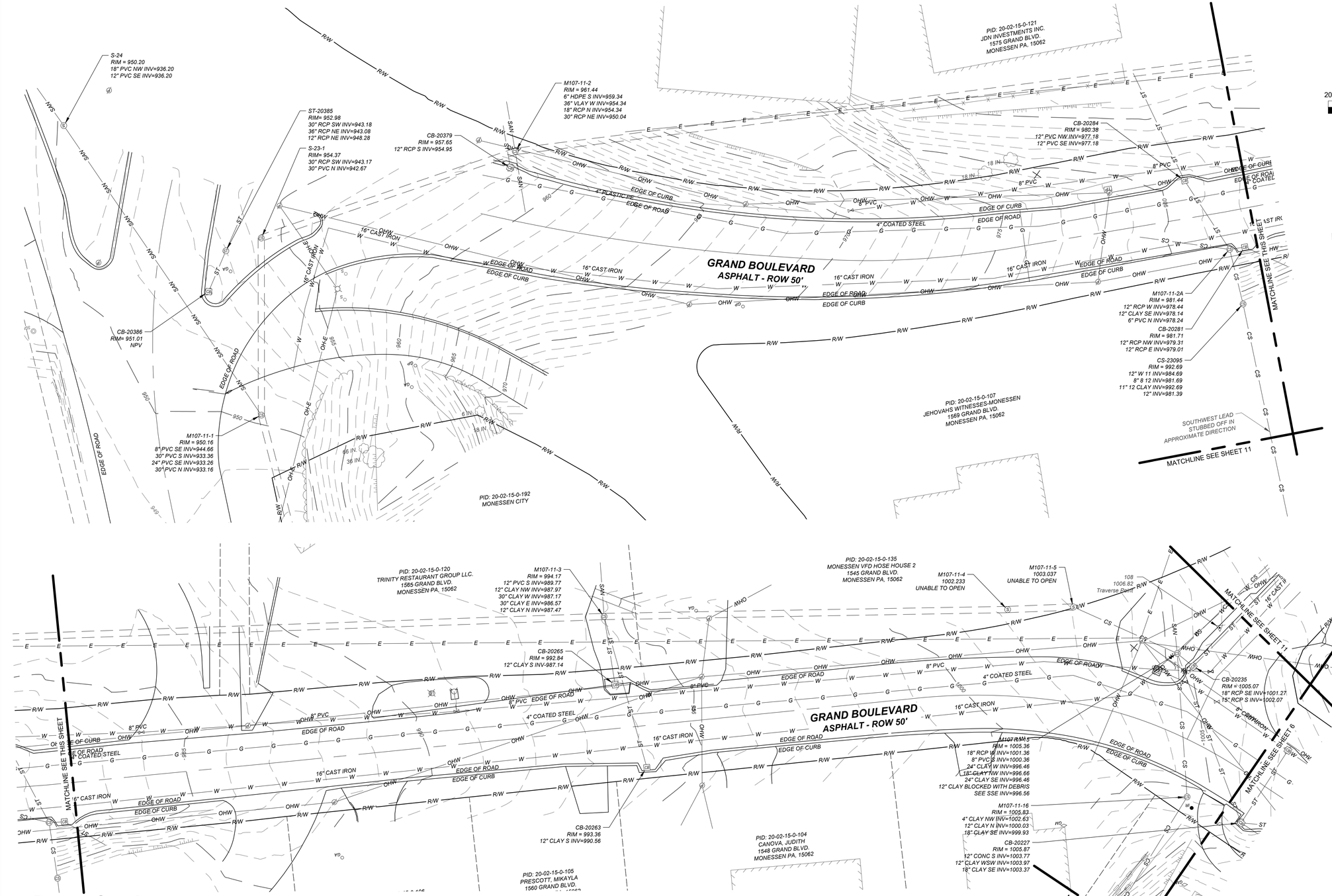

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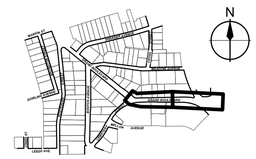
HORIZONTAL SCALE IN FEET

20 10 0 20 40



LOCATION MAP
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EXISTING CONDITIONS 1

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JASON J MCBRIDE
ENGINEER
PE055553

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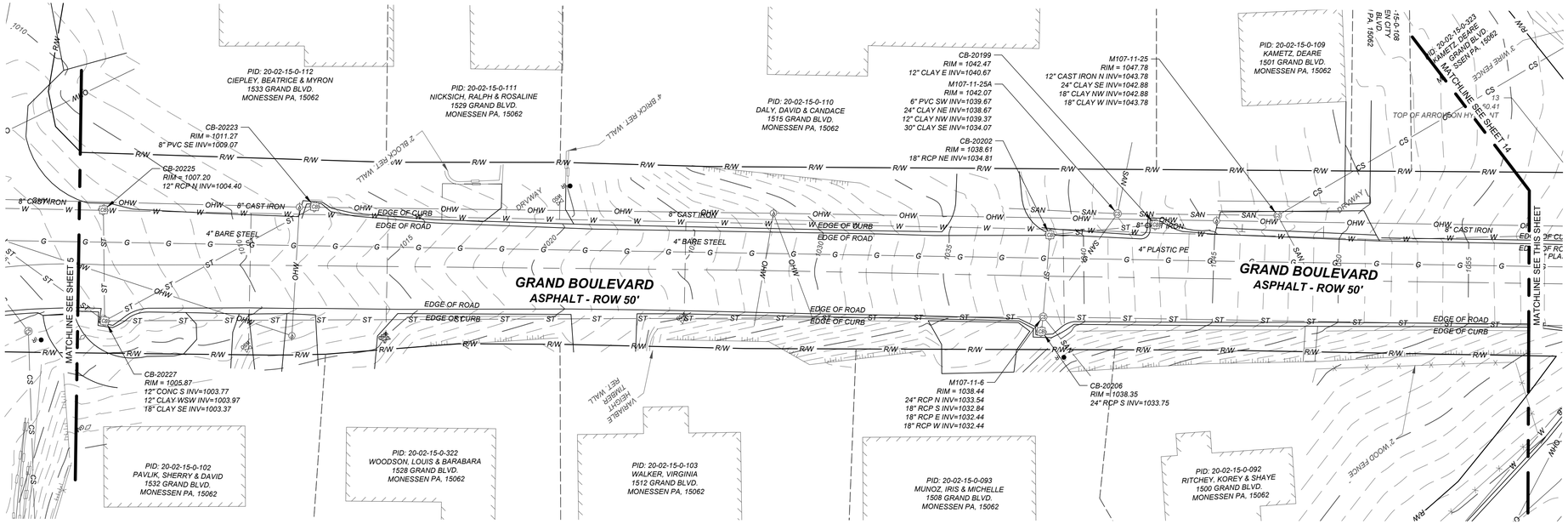

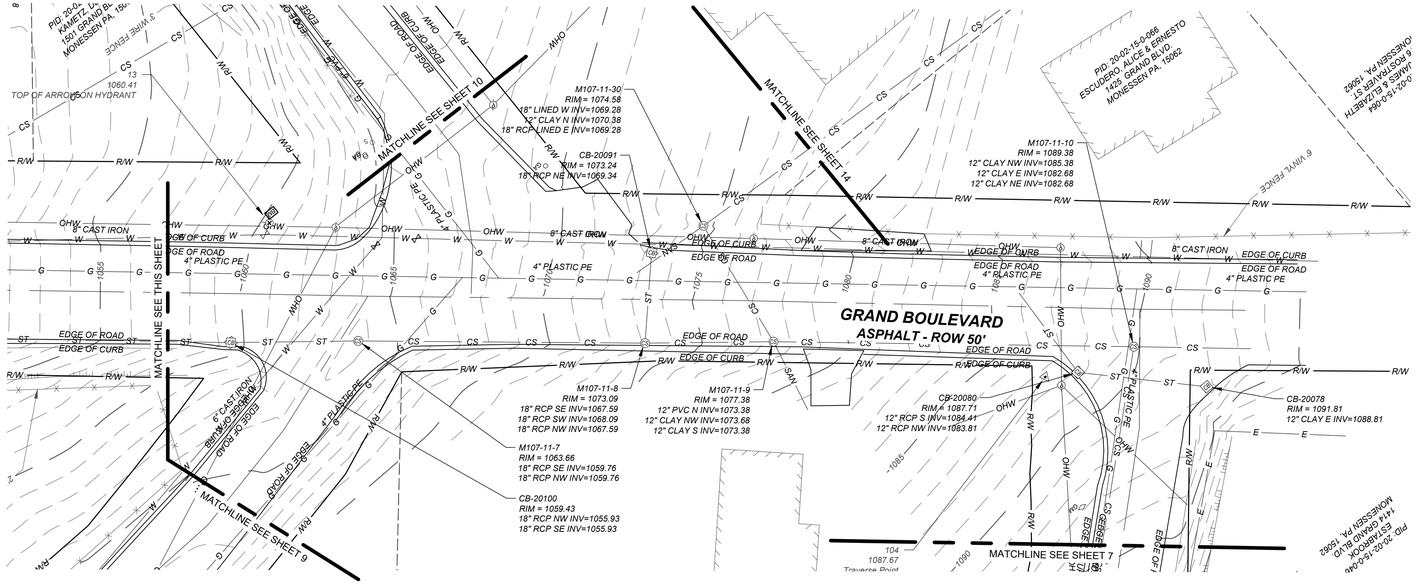

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HORIZONTAL SCALE IN FEET
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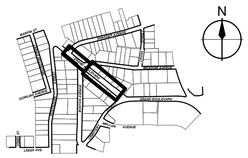

LOCATION MAP
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EXISTING CONDITIONS 2

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REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552

JOB NO.
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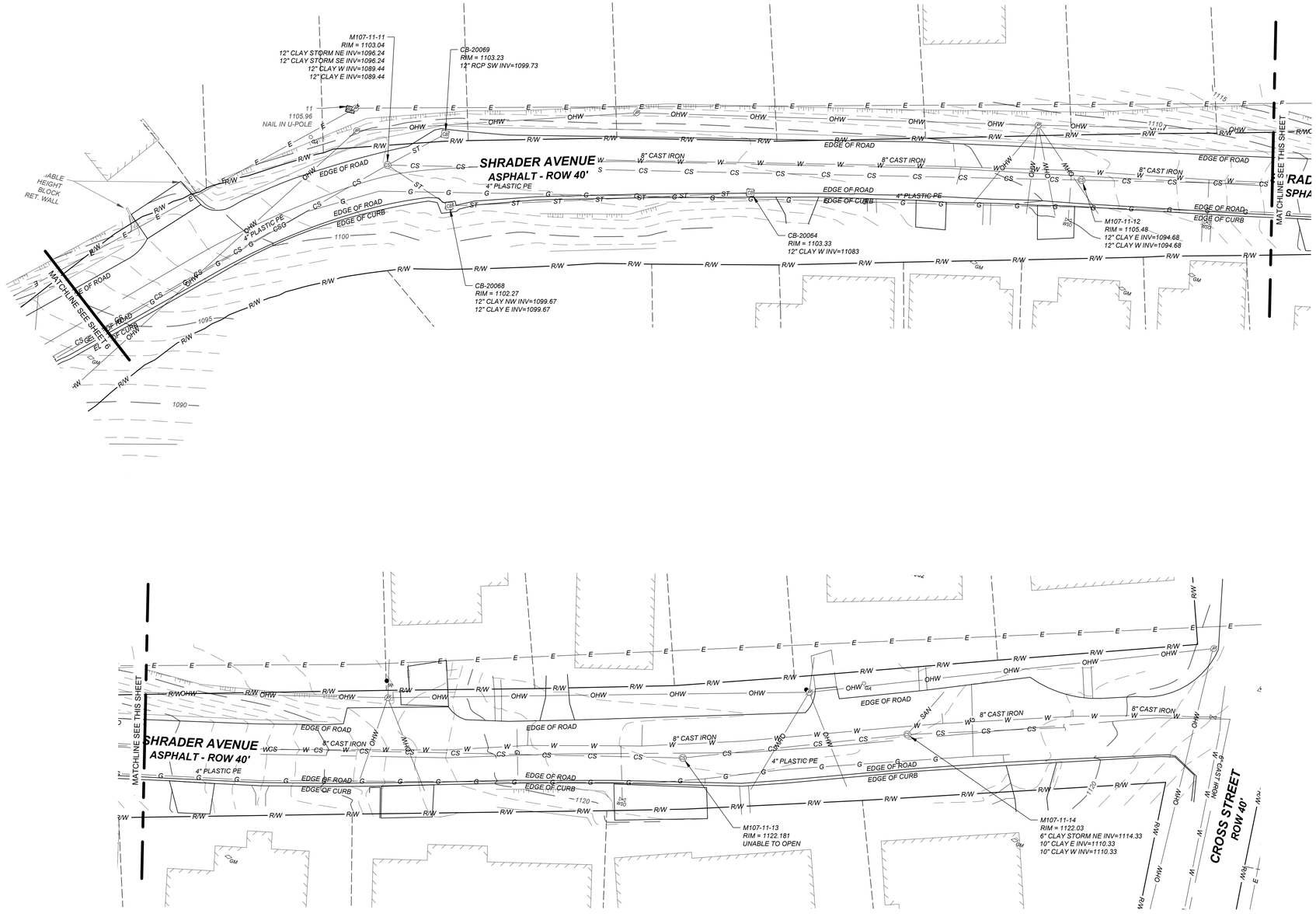

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HORIZONTAL SCALE IN FEET

20 10 0 20 40

LOCATION MAP
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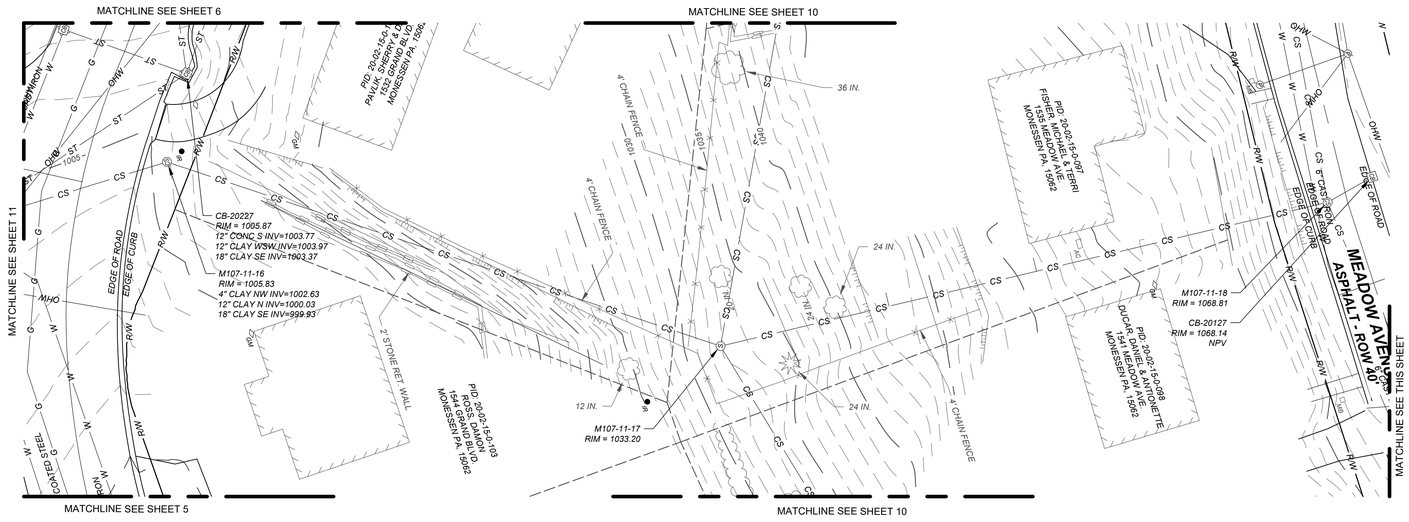

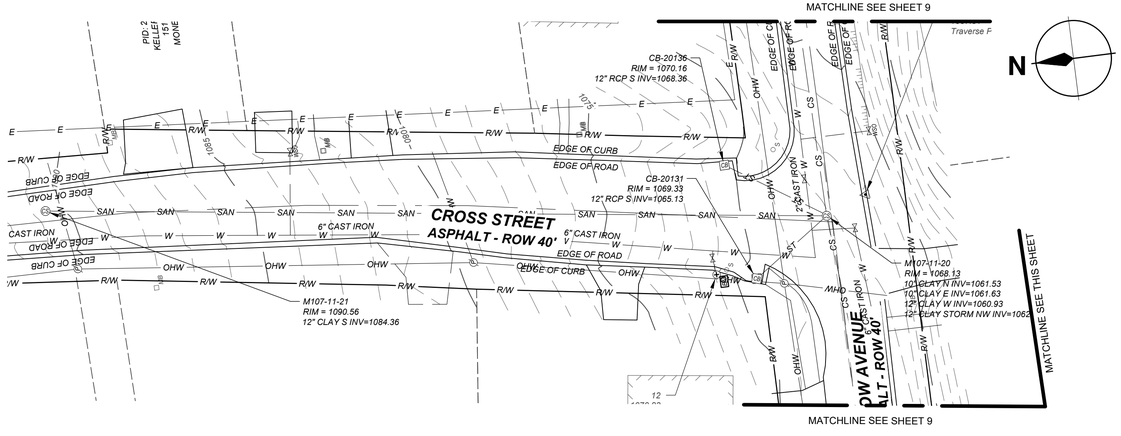

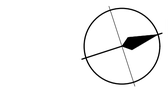

HORIZONTAL SCALE IN FEET

20 10 0 20 40

LOCATION MAP
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ENGINEER
PE085552

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EXISTING CONDITIONS 5

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REGISTERED PROFESSIONAL
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ENGINEER
PE035553

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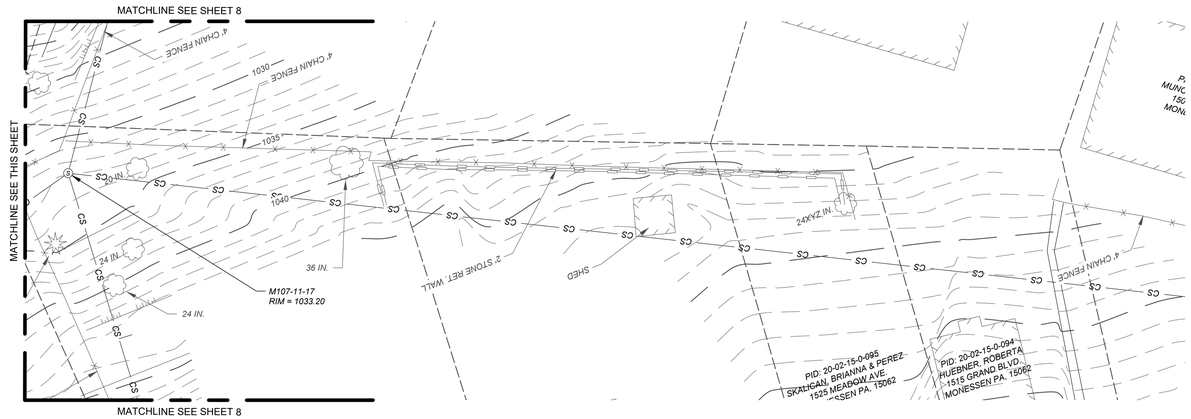

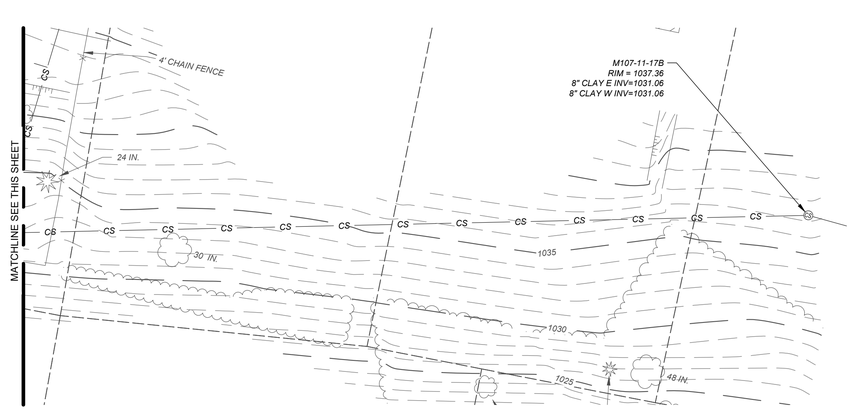

HORIZONTAL SCALE IN FEET

20 10 0 20 40

LOCATION MAP
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

EXISTING CONDITIONS 6

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ENGINEER
PE088552

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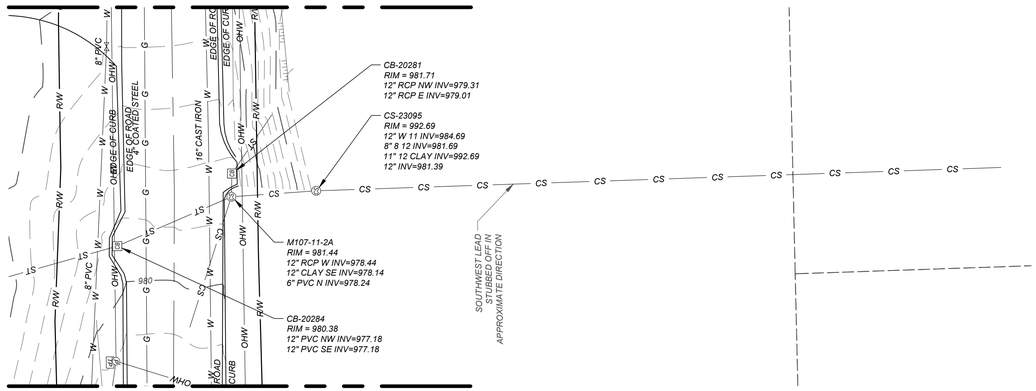

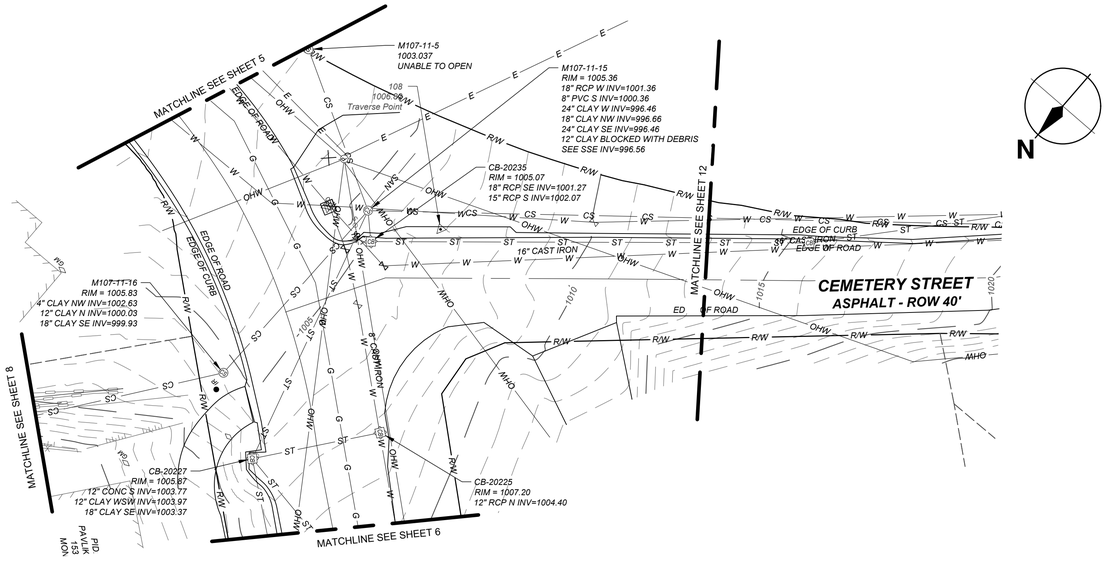

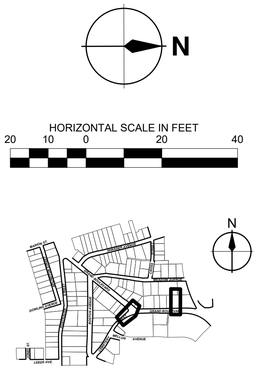

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MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

EXISTING CONDITIONS 7

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
11 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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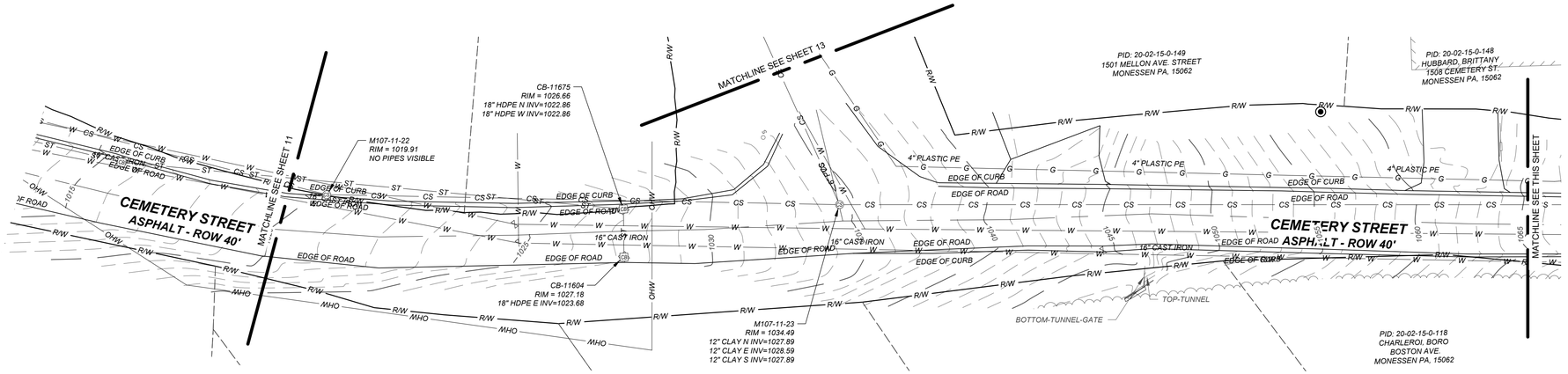

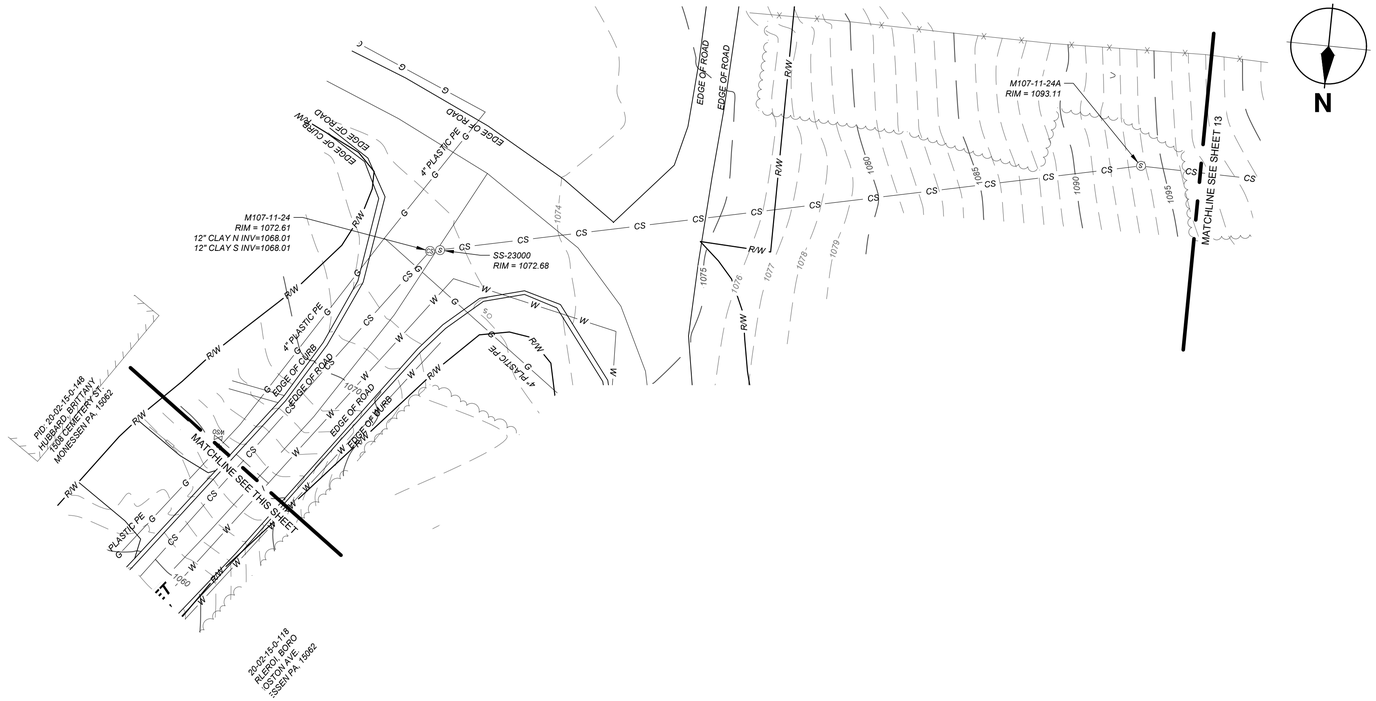

N

HORIZONTAL SCALE IN FEET
20 10 0 20 40

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
MONESSEN PA

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EXISTING CONDITIONS 8

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PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE088552

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MVS2026.02H

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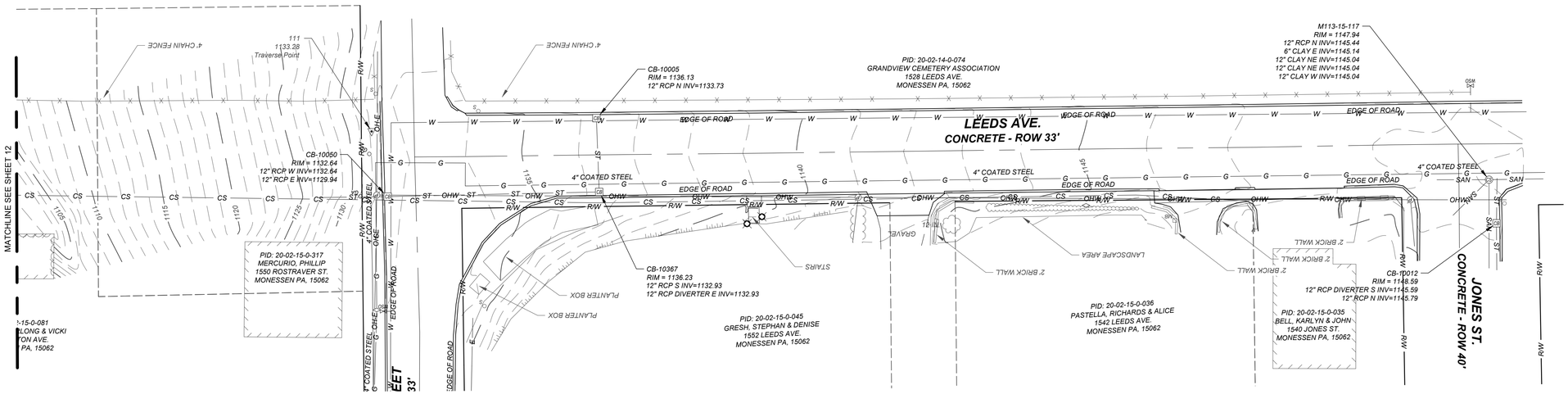

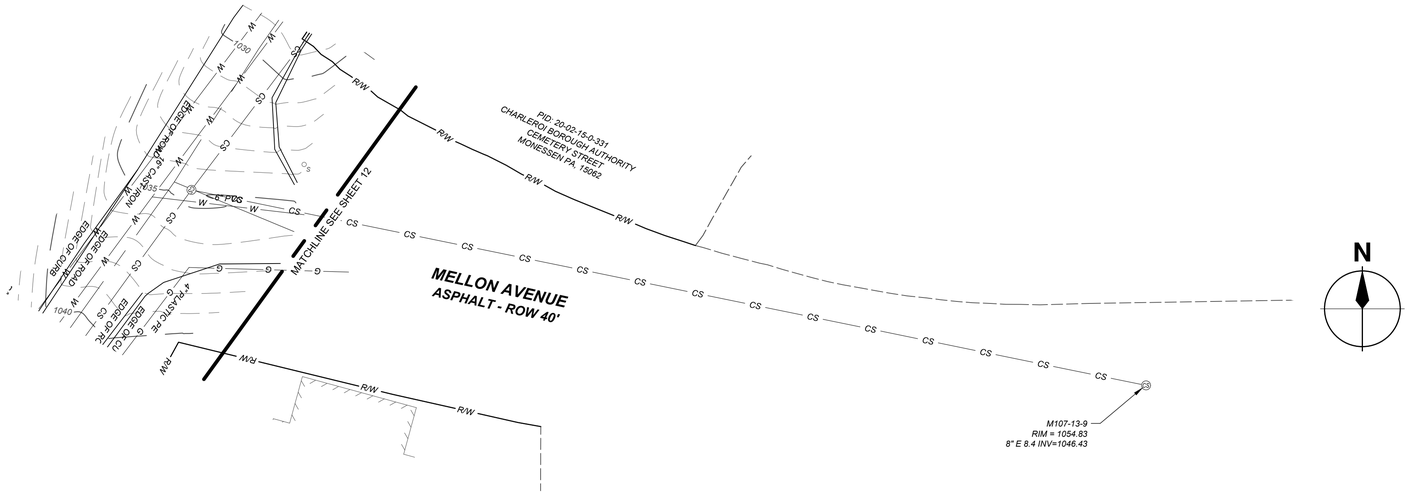

N

HORIZONTAL SCALE IN FEET

20 10 0 20 40

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

EXISTING CONDITIONS 9

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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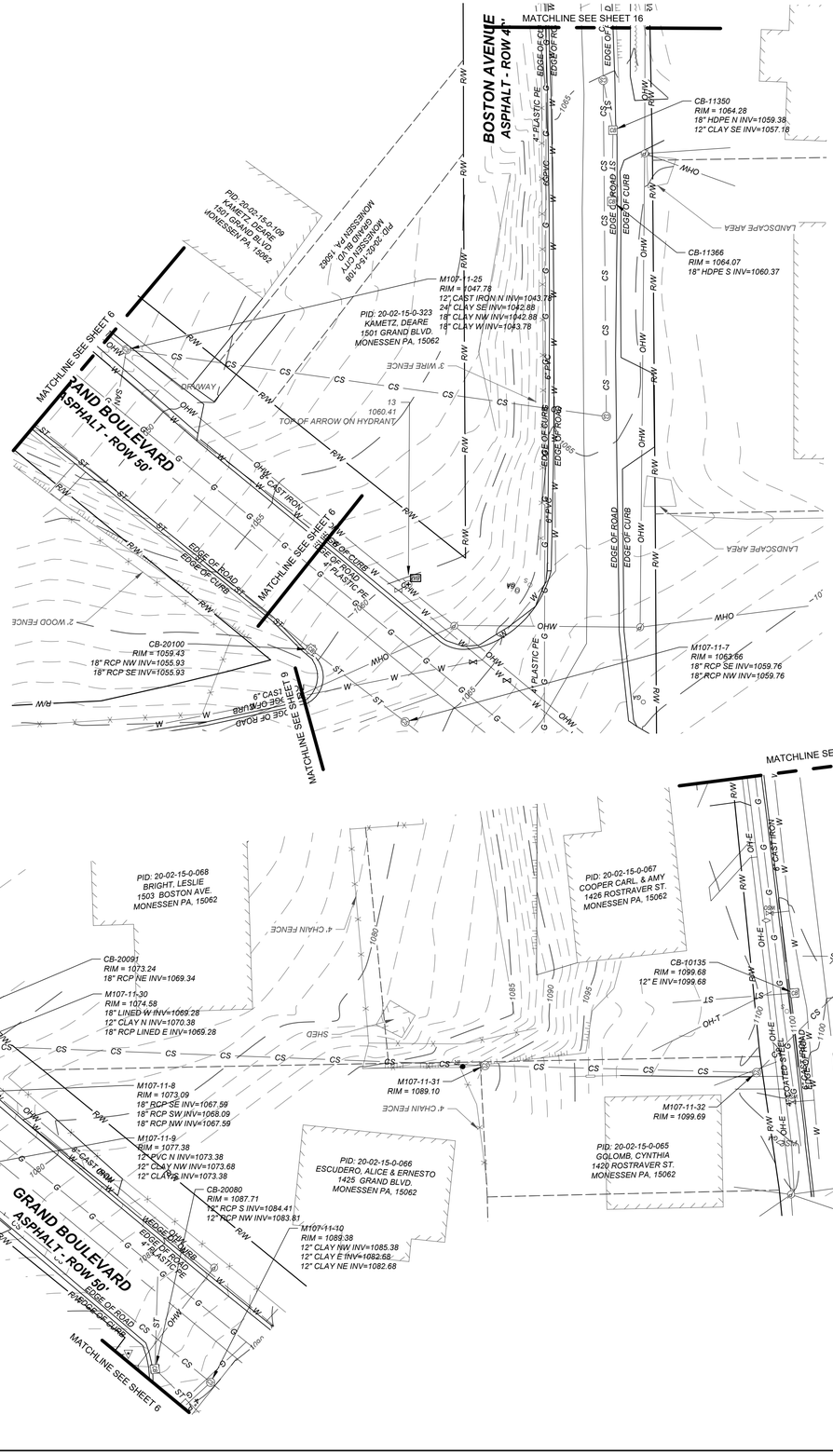

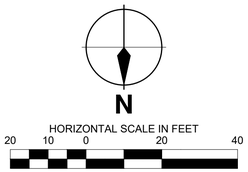

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
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MONESSEN PA

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

EXISTING CONDITIONS 10

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60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085532

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MVS2026.02H

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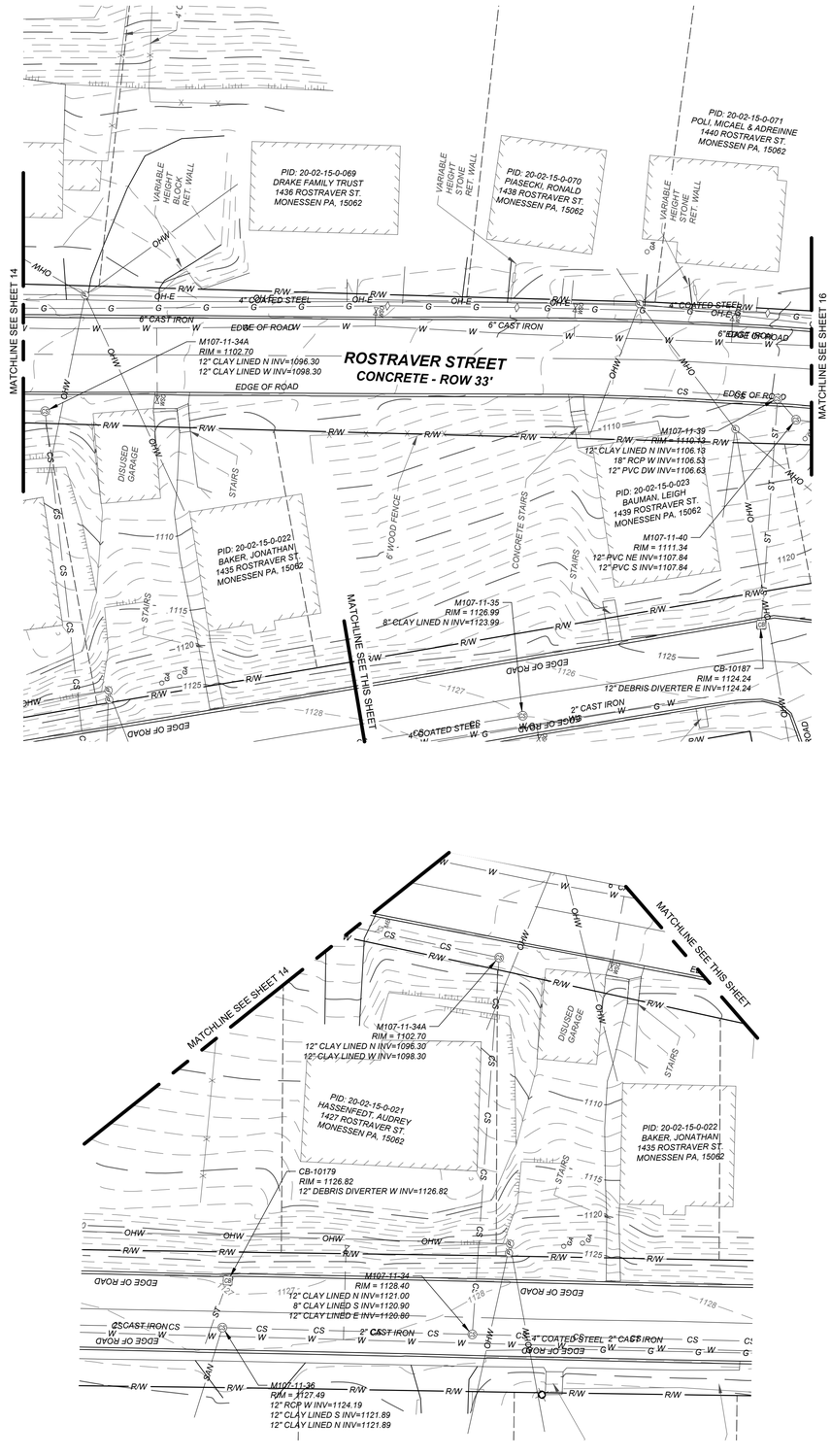

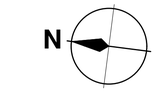

HORIZONTAL SCALE IN FEET

20 10 0 20 40

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

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90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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JASON J. MCBRIDE
ENGINEER
PE059552

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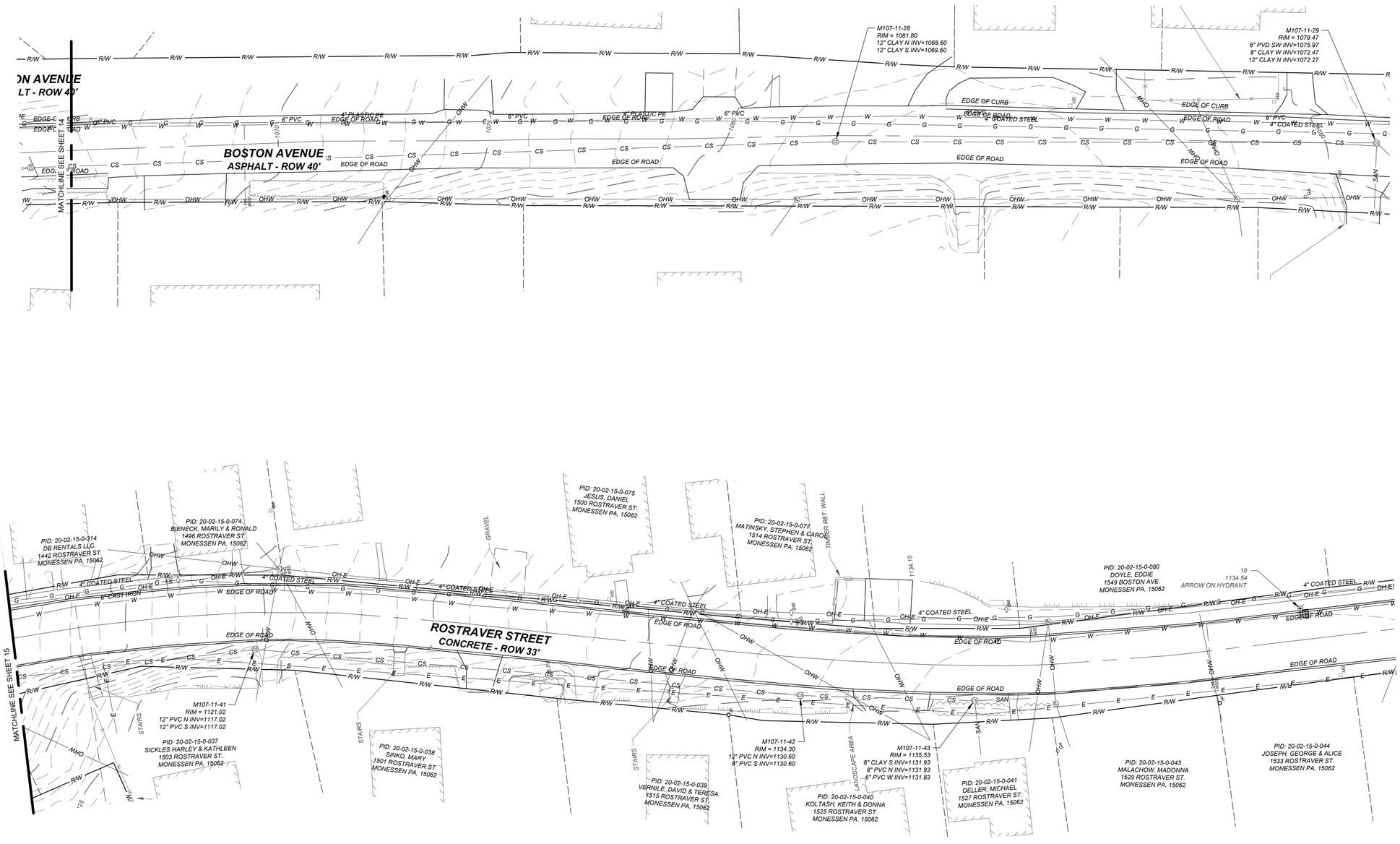

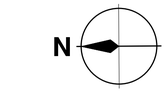

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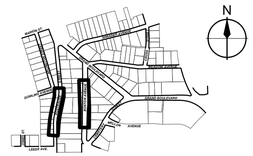

LOCATION MAP
NO SCALE

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SEWAGE AUTHORITY
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EXISTING CONDITIONS 12

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PROFESSIONAL
JASON J. MCBRIDE
ENGINEER
PE085552

JOB NO.
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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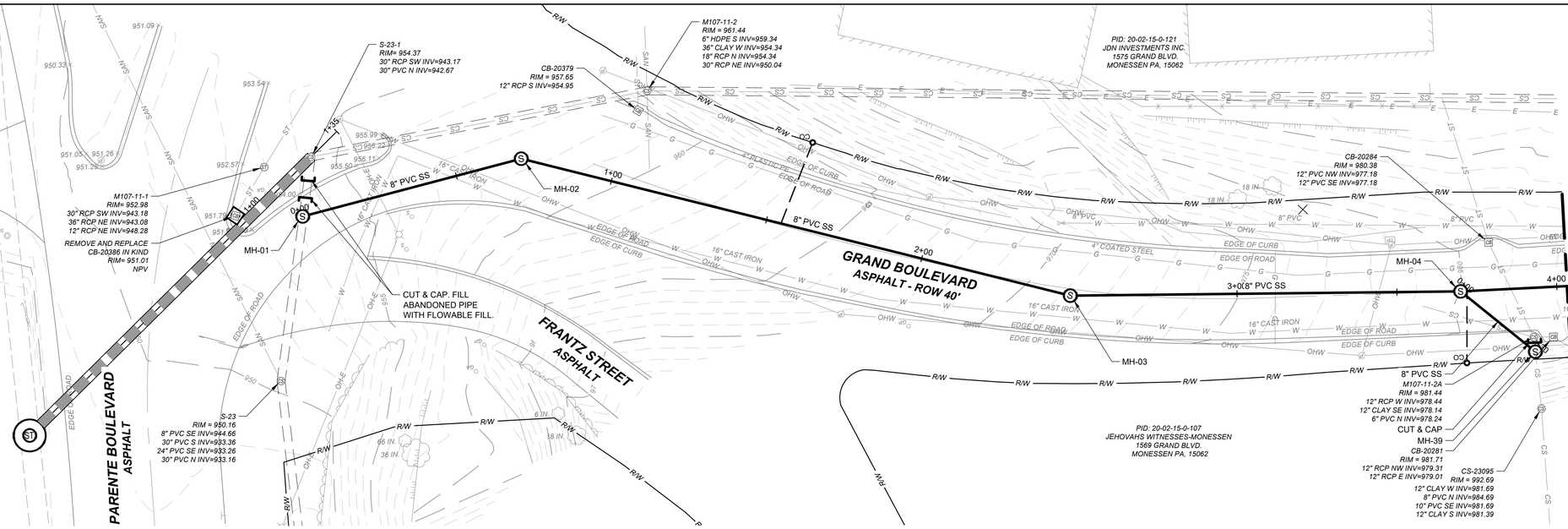

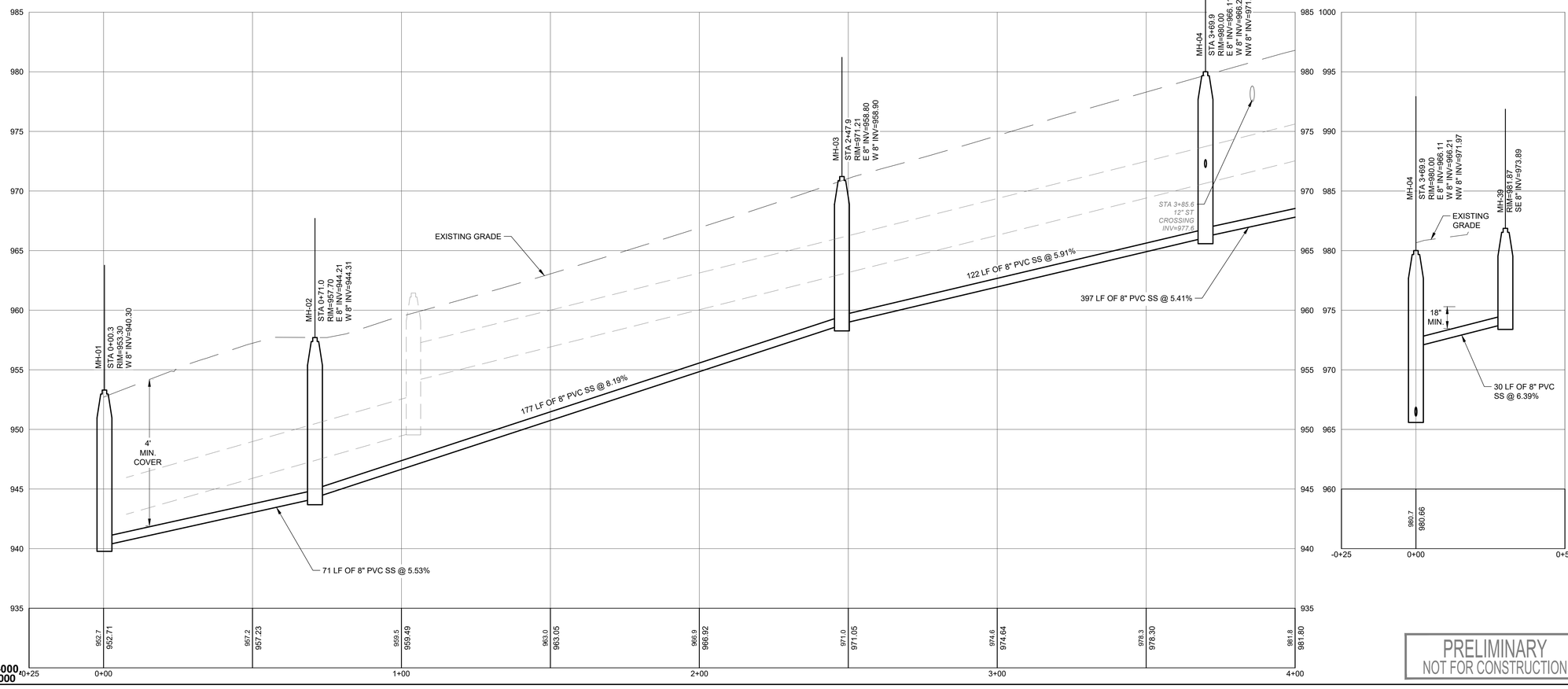

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DONORA MONESSEN

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PROFESSIONAL
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ENGINEER
PE088532

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GRAND BLVD. - SANITARY SEWER PLAN & PROFILE 1

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30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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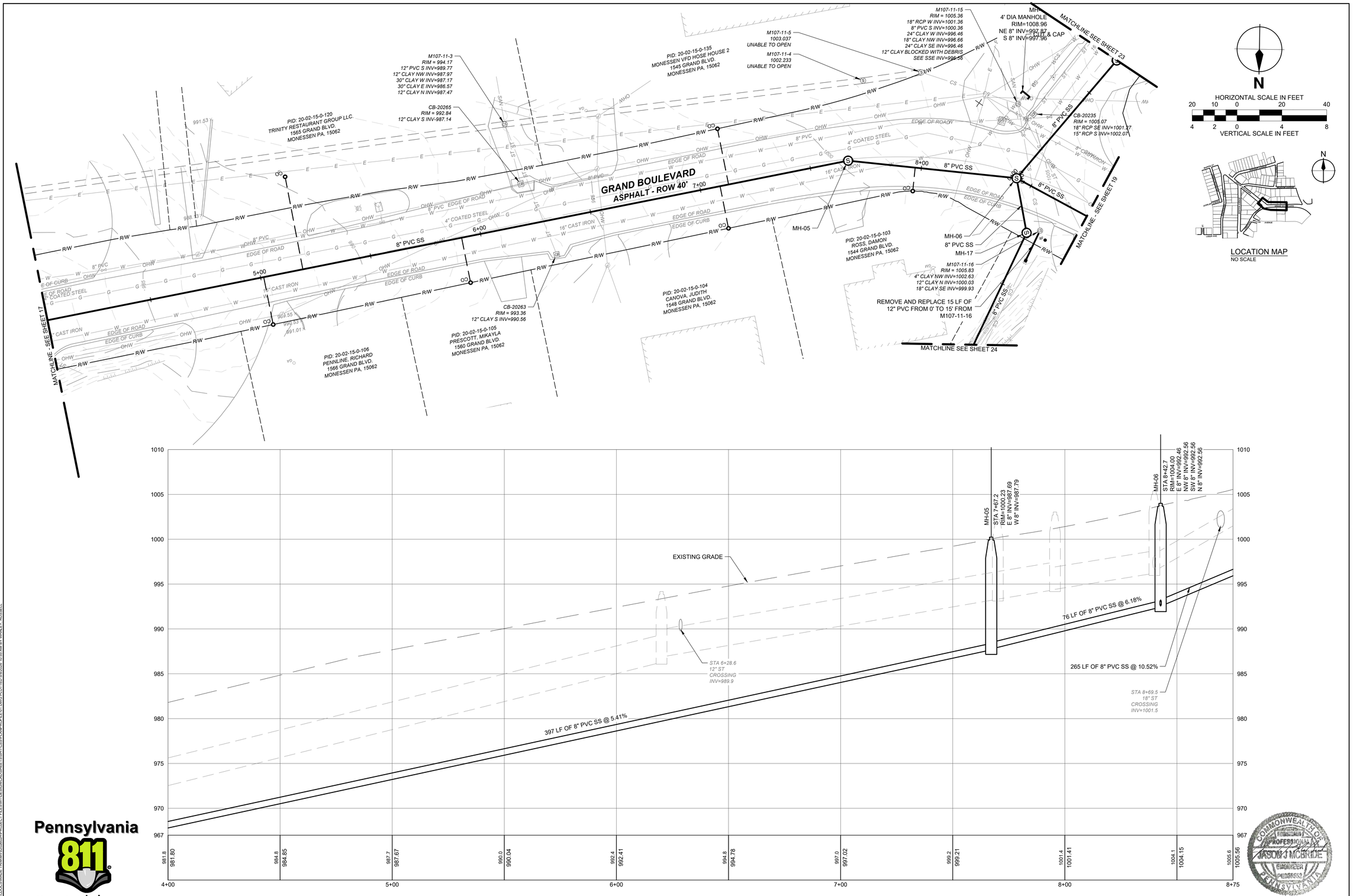

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
DONORA, PA

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Fourth Avenue Center
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Pittsburgh, PA 15222
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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GRAND BLVD. - SANITARY SEWER PLAN & PROFILE 2
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CC
60% DESIGN	03/30/26	CC
90% DESIGN	04/22/26	CC
PERMITS	04/24/26	CC
100% DESIGN	05/06/26	CC
BID	05/07/26	CC

JOB NO.
MVS2026.02H

SHEET
18 OF 57

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ENGINEER
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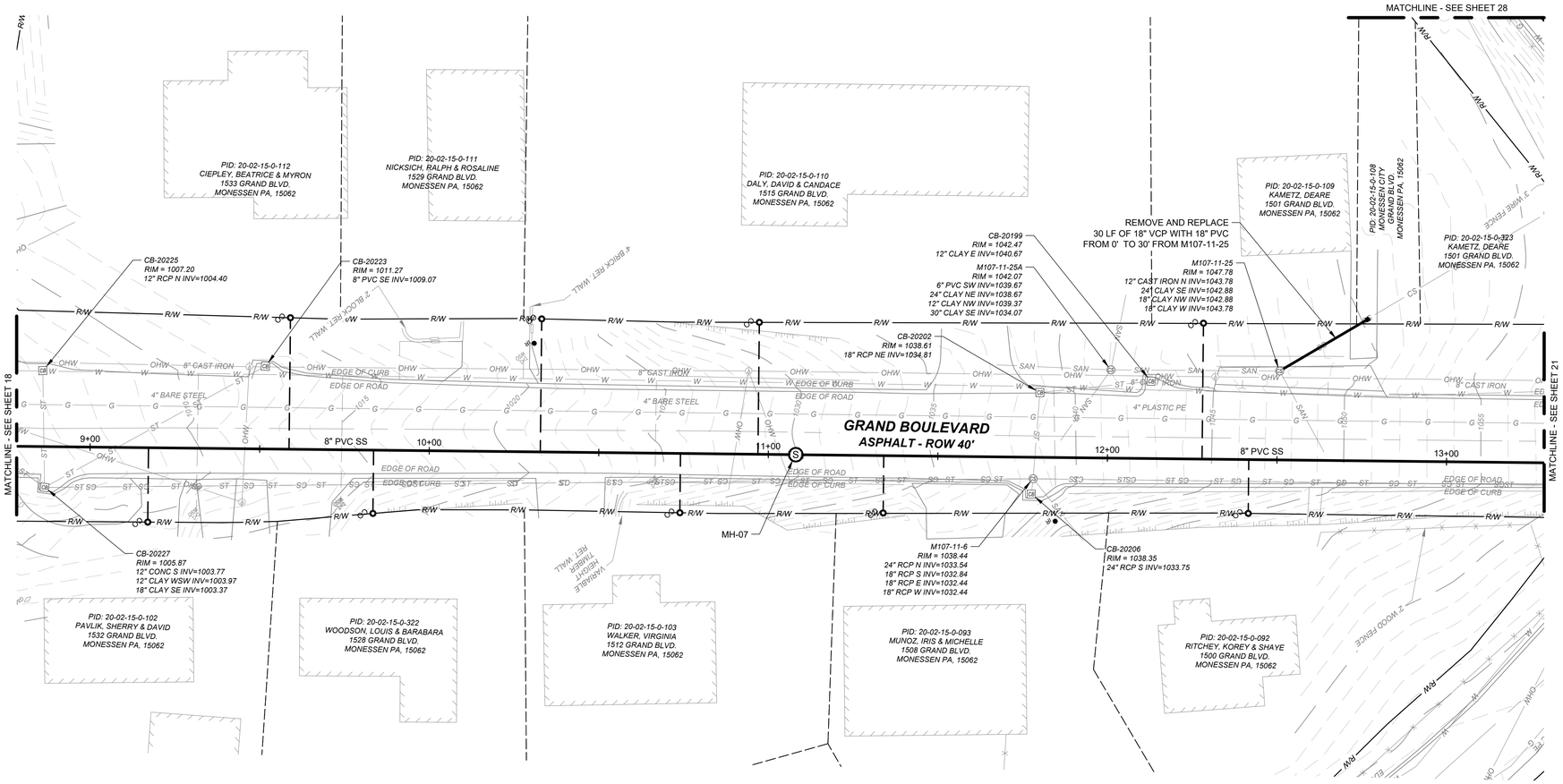

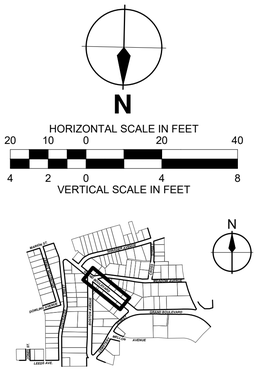

NOTES:

1. FOR PROFILE SEE SHEET 20

REV#	DATE	DESCRIPTION	BY

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MONESSEN PA

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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GRAND BLVD. - SANITARY SEWER PLAN 3

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J. MCBRIDE
ENGINEER
PE080832

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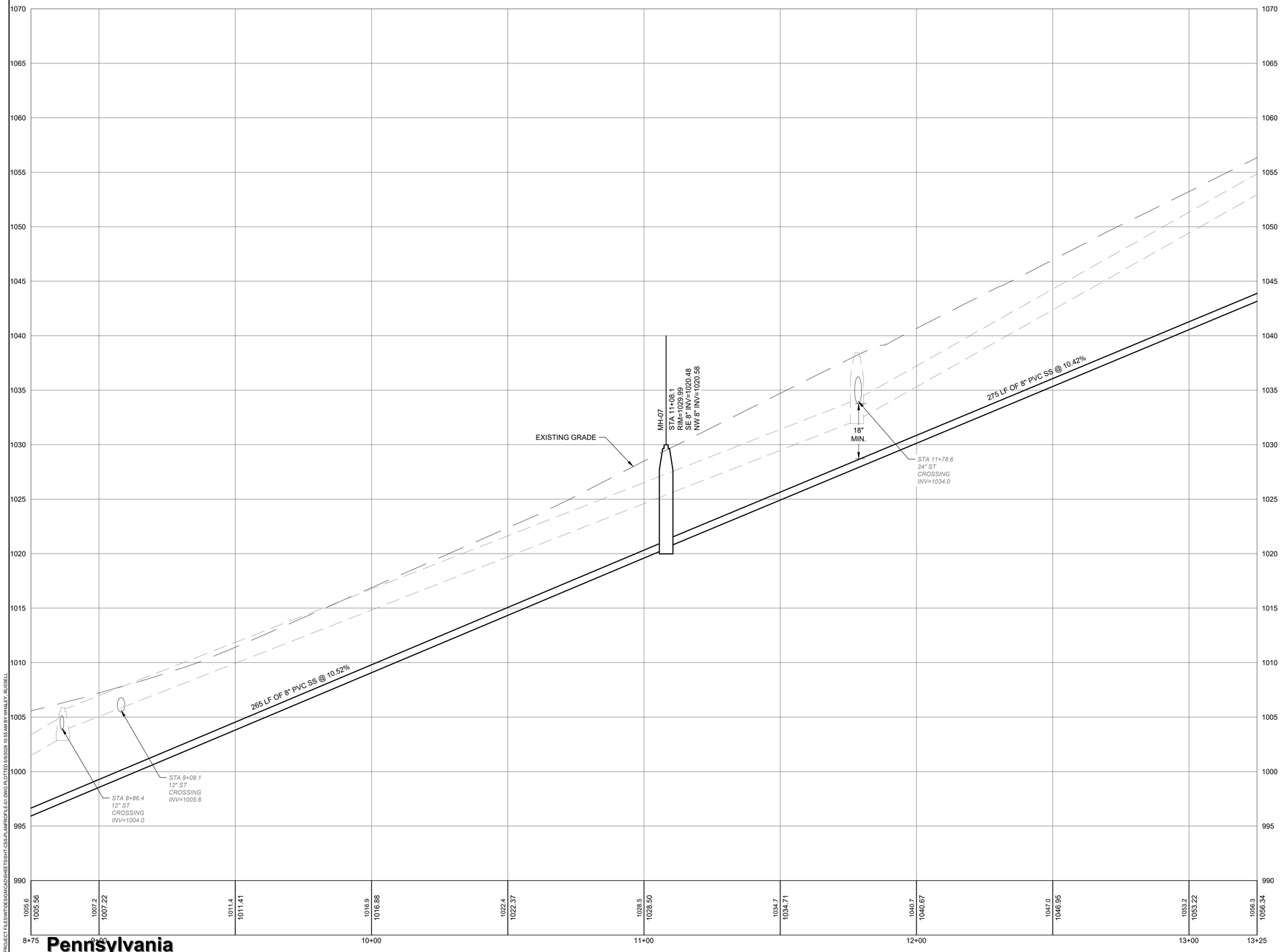

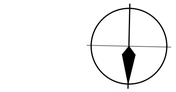

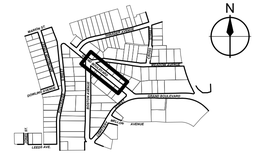

LOCATION MAP
NO SCALE

NOTES:

1. FOR PLAN VIEW SEE SHEET 19

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
DONORA MONESSEN

WADE TRIM
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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GRAND BLVD. - SANITARY SEWER PROFILE 3

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
20 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552

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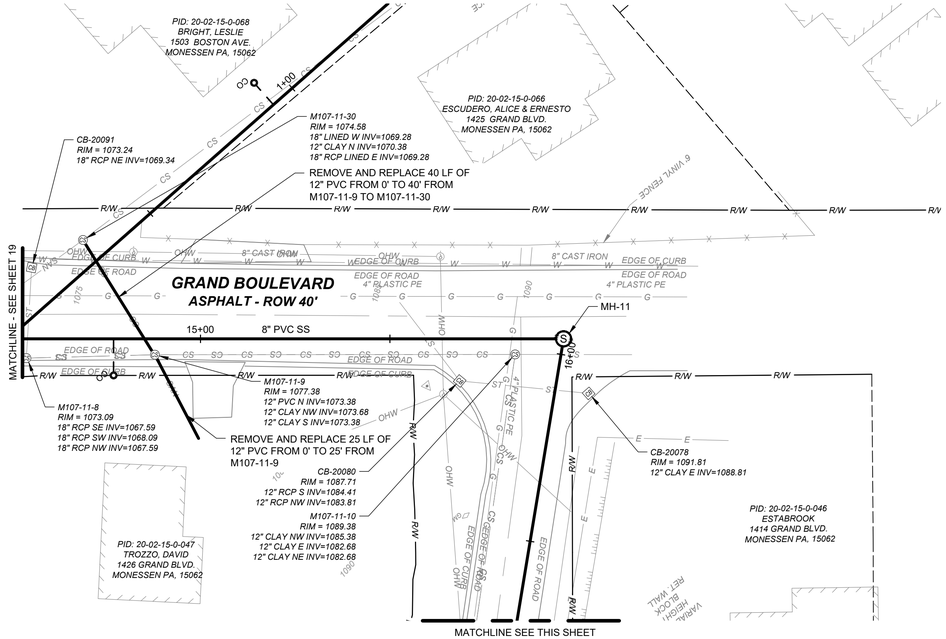
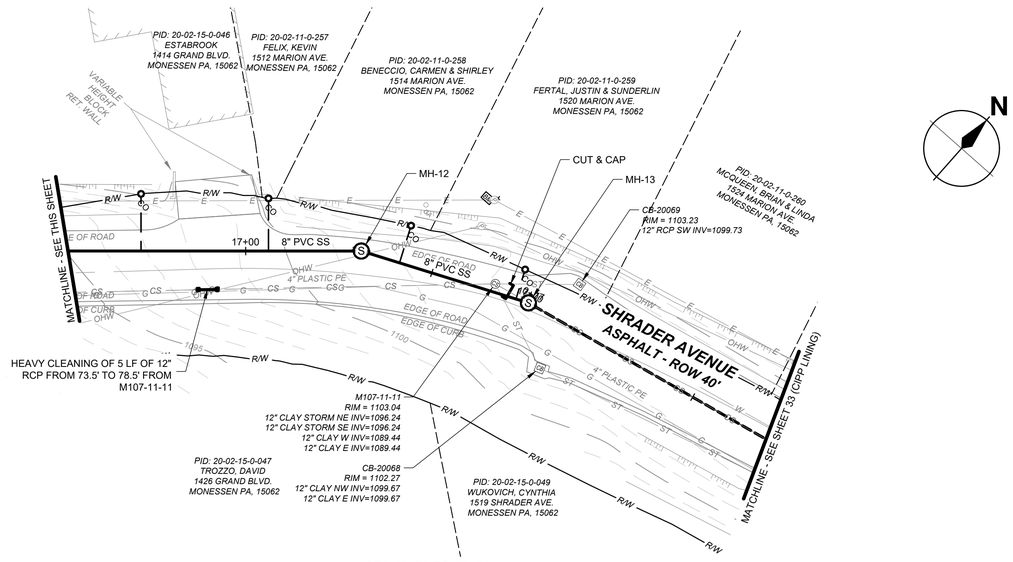


STA 14+50 TO 16+50



STA 16+50 TO 17+74

HORIZONTAL SCALE IN FEET
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE IN FEET

LOCATION MAP
NO SCALE

NOTES:

1. FOR PROFILE SEE SHEET 22
2. EXISTING 4" PEOPLES GAS LINE CROSS BORED THROUGH SEGMENT M107-11-9_M107-11-30, 21 LF DOWNSTREAM OF M107-11-9. CONTRACTOR TO COORDINATE RELOCATION OF THIS 4" GAS LINE WITH PEOPLES GAS.

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
MONESSEN

WADE TRIM

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Four Gateway Center
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Pittsburgh, PA 15222
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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

SHRADER AVE. - SANITARY SEWER PLAN 4

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552
PENNSYLVANIA

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21 OF 57

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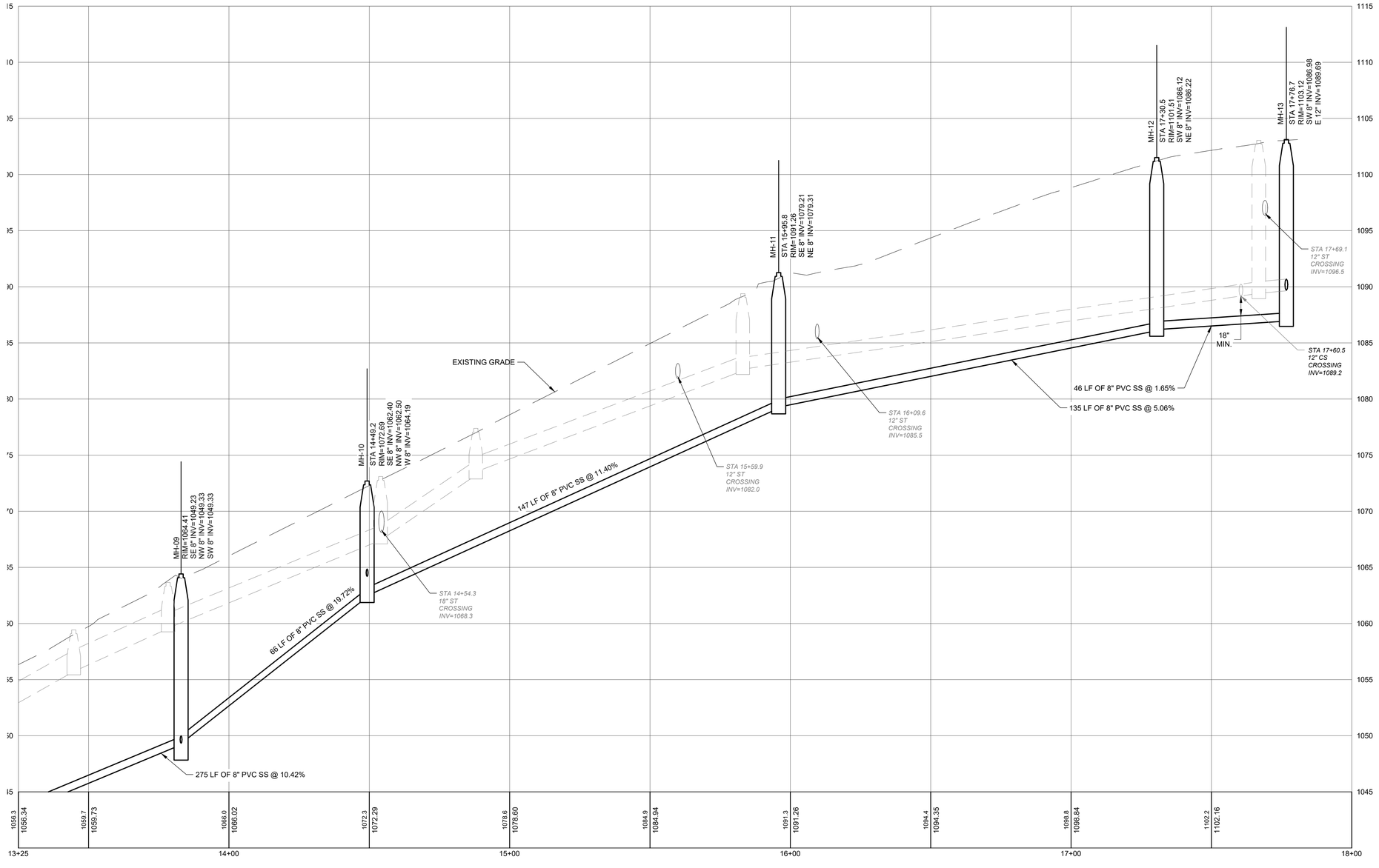

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HORIZONTAL SCALE IN FEET
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE IN FEET

NOTES:

1. FOR PLAN VIEW SEE SHEET 21

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MONESSEN VALLEY

WADE TRIM

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Four Gateway Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

SHRADER AVE. - SANITARY SEWER PROFILE 4

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60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
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JOB NO. MVS2026.02H

SHEET 22 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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ENGINEER
PE085553

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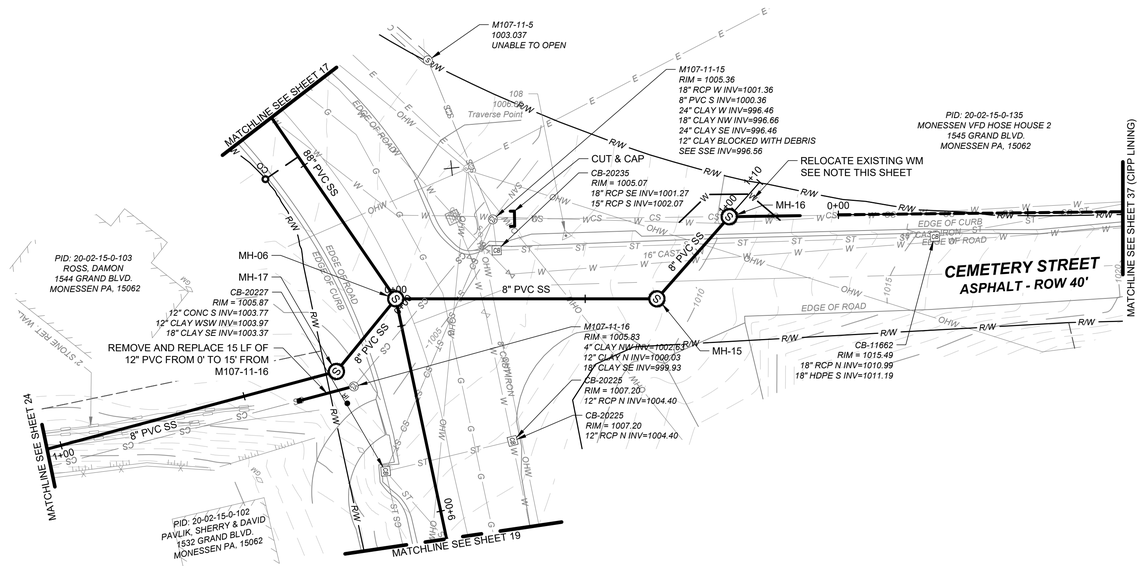

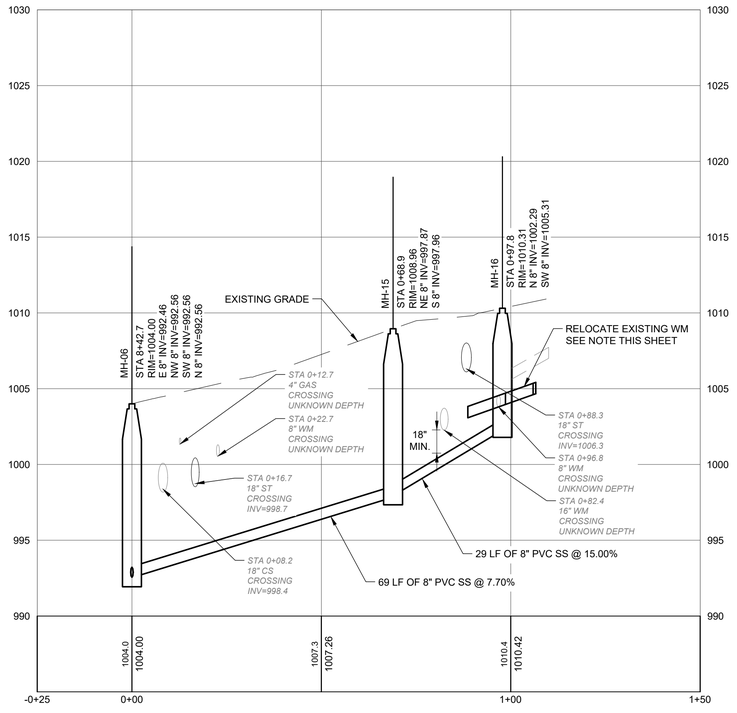

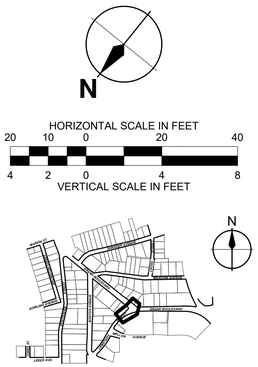

NOTES:

1. CONTRACTOR TO COORDINATE RELOCATION OF EXISTING WATER LINE WITH THE AUTHORITY OF THE BOROUGH OF CHARLEROI PRIOR TO INSTALLING PROPOSED MH-16.

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
MONESSEN PA

WADE TRIM

Wade Trim, Inc.
Gateway Corporate Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
412.454.5566 | www.wadetrim.com

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

CEMETERY ST. - SANITARY SEWER PLAN & PROFILE 5

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
23 OF 57

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE055552

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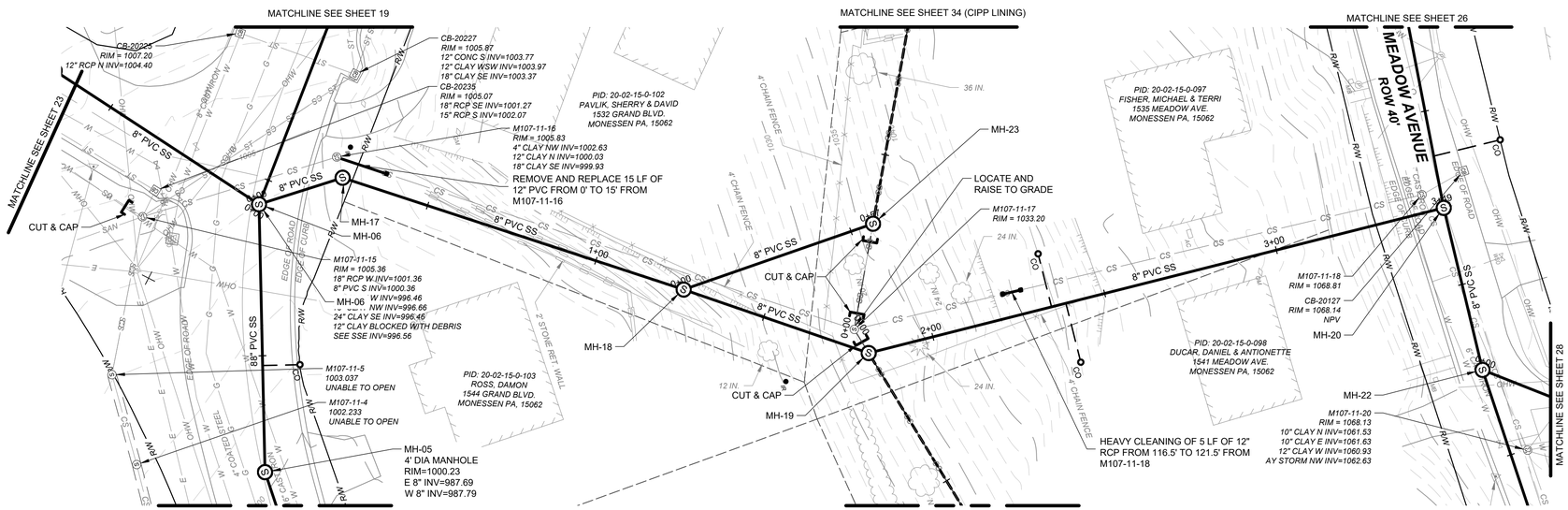

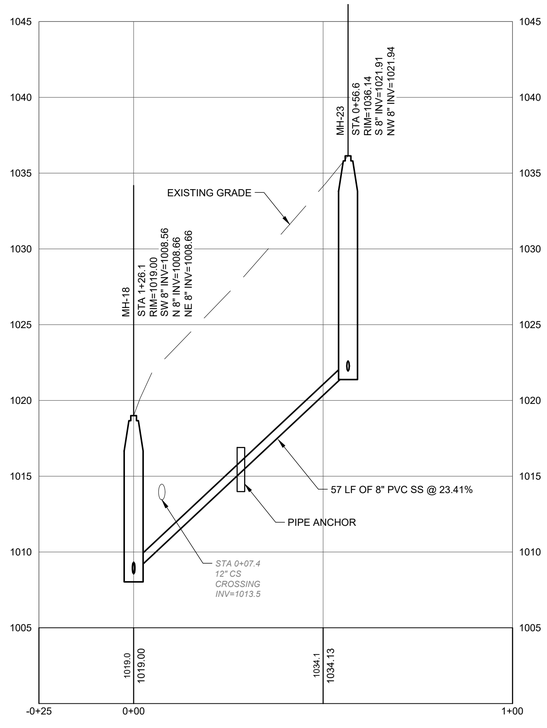

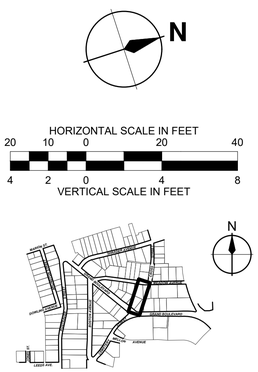

NOTES:

1. FOR PROFILE SEE SHEET 25

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MON VALLEY SEWAGE AUTHORITY
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
SANITARY SEWER PLAN 6

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552

JOB NO.
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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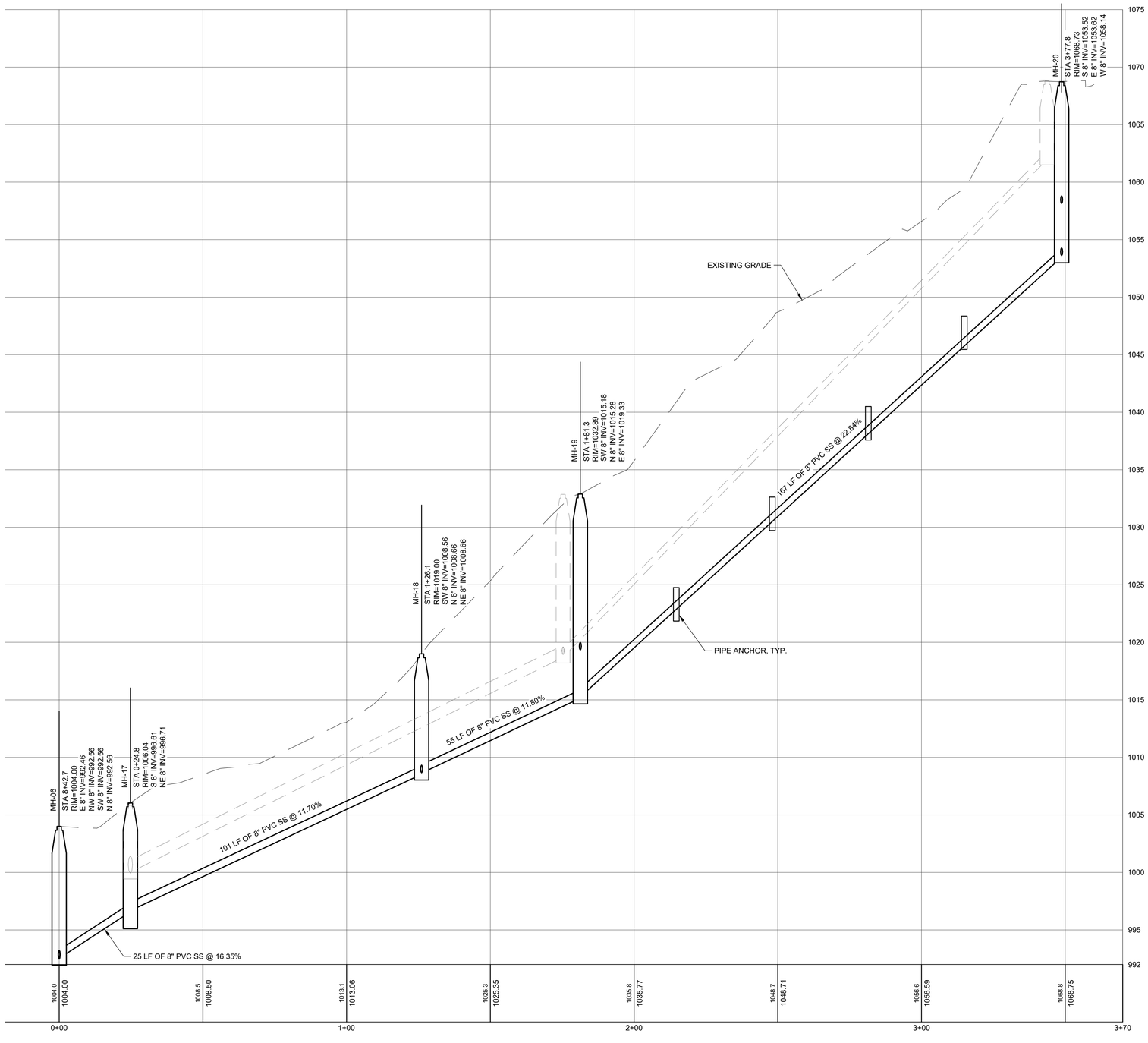

N

HORIZONTAL SCALE IN FEET

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE IN FEET

LOCATION MAP
NO SCALE

NOTES:

1. FOR PLAN VIEW SEE SHEET 24

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
DONORA MONESSEN

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SANITARY SEWER PROFILE 6

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE035553

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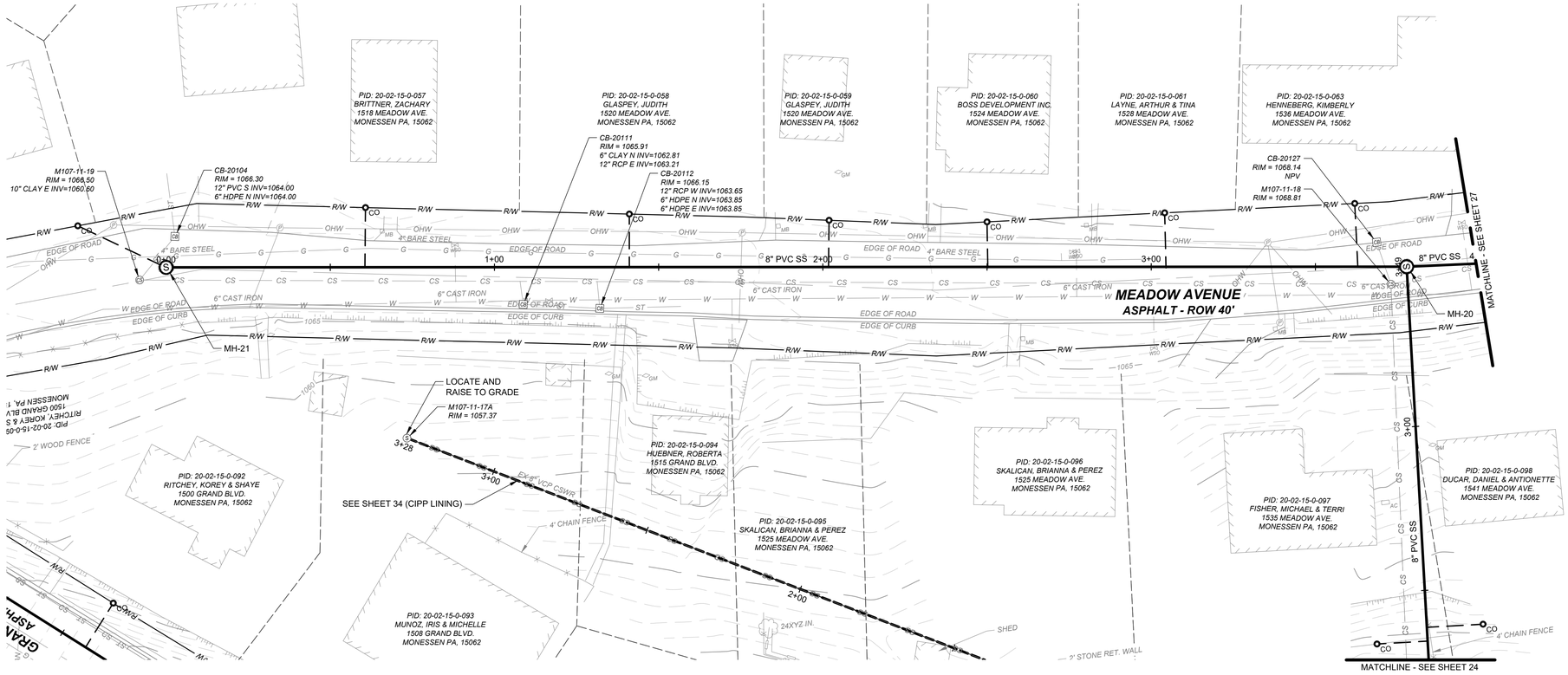
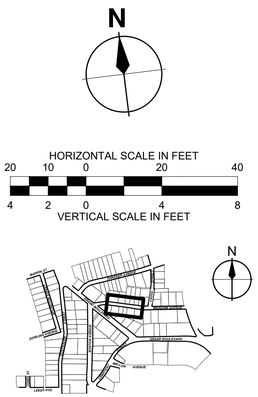
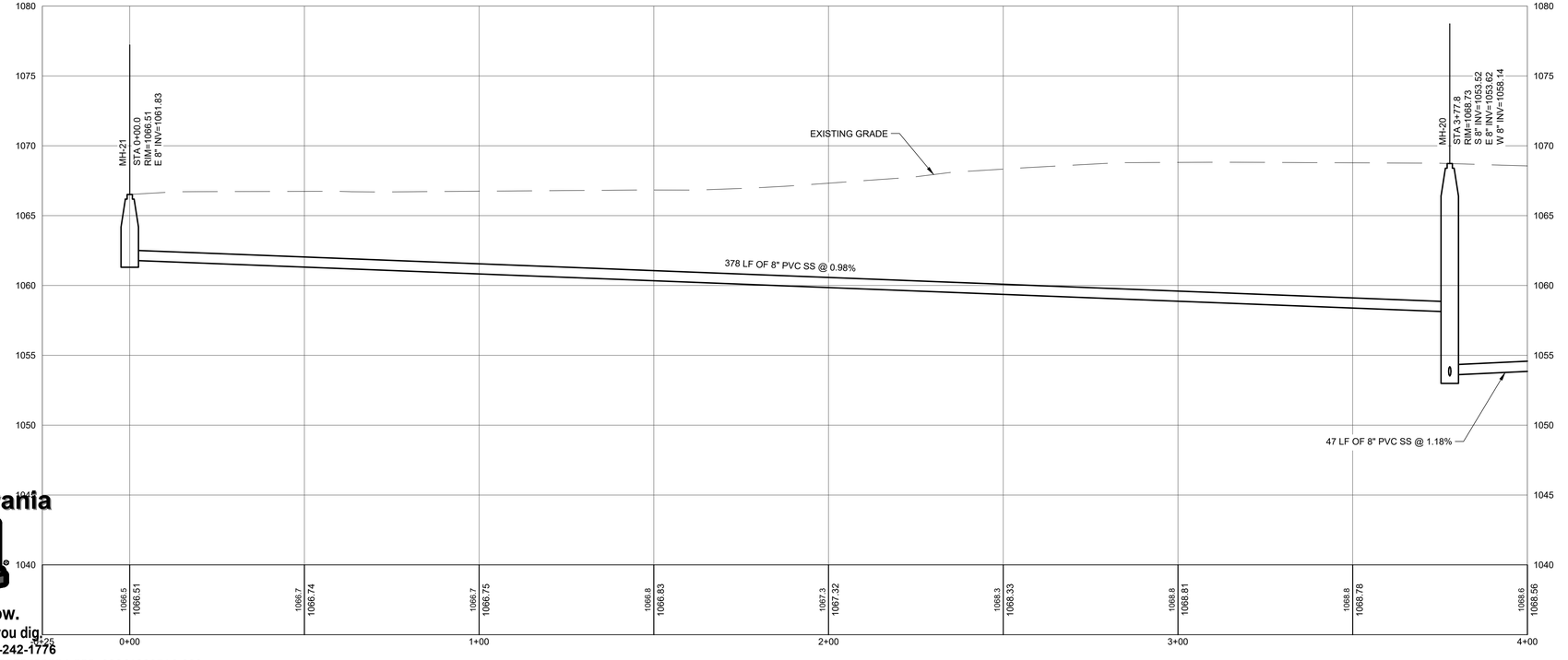




LOCATION MAP
NO SCALE



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DONORA PA MONESSEN

WADE TRIM

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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

MEADOW AVE. - SANITARY SEWER PLAN & PROFILE 7

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE059553

JOB NO.
MVS2026.02H

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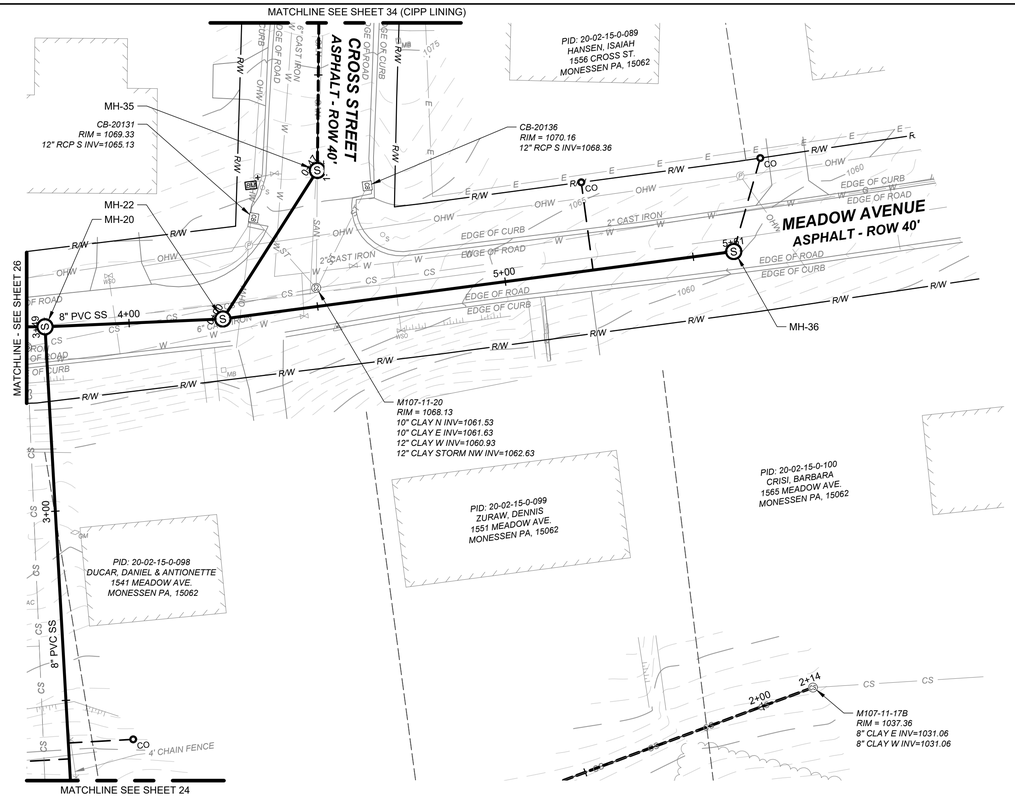

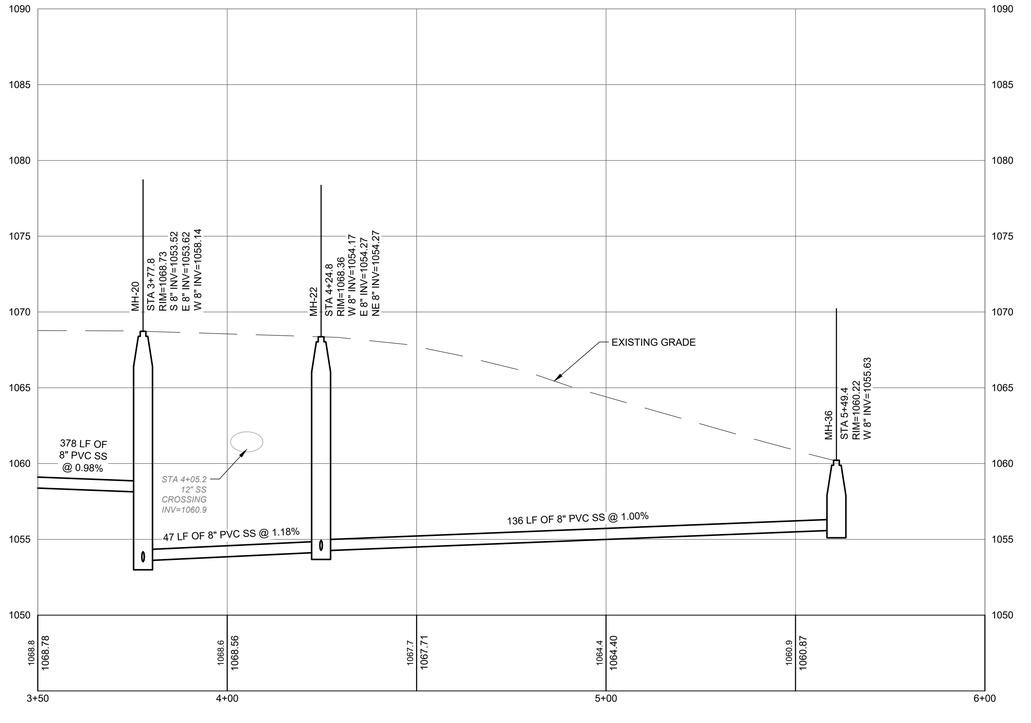

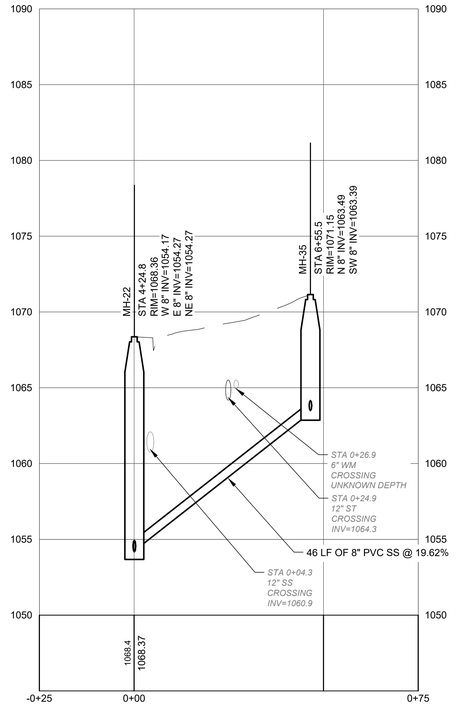

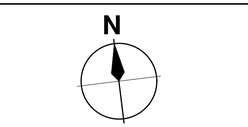

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

MEADOW AVE. - SANITARY SEWER PLAN & PROFILE 8

ISSUED FOR:	DATE:	BY:
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PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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MVS2026.02H

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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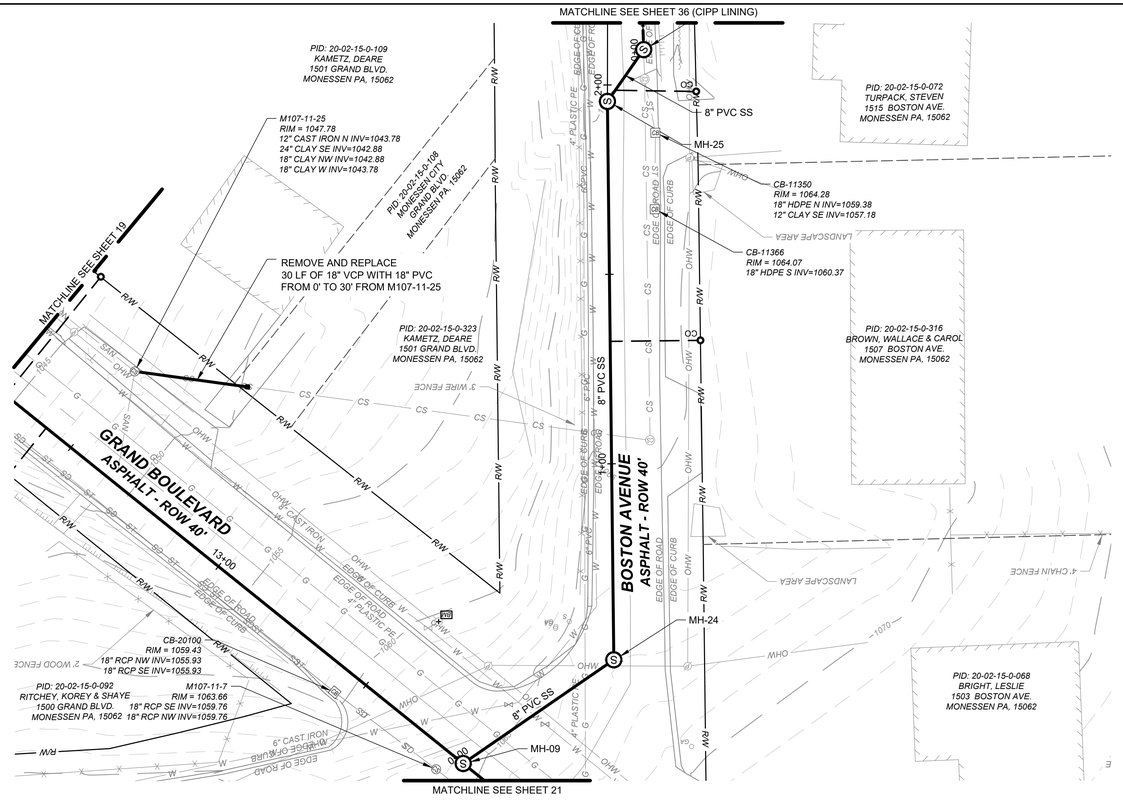

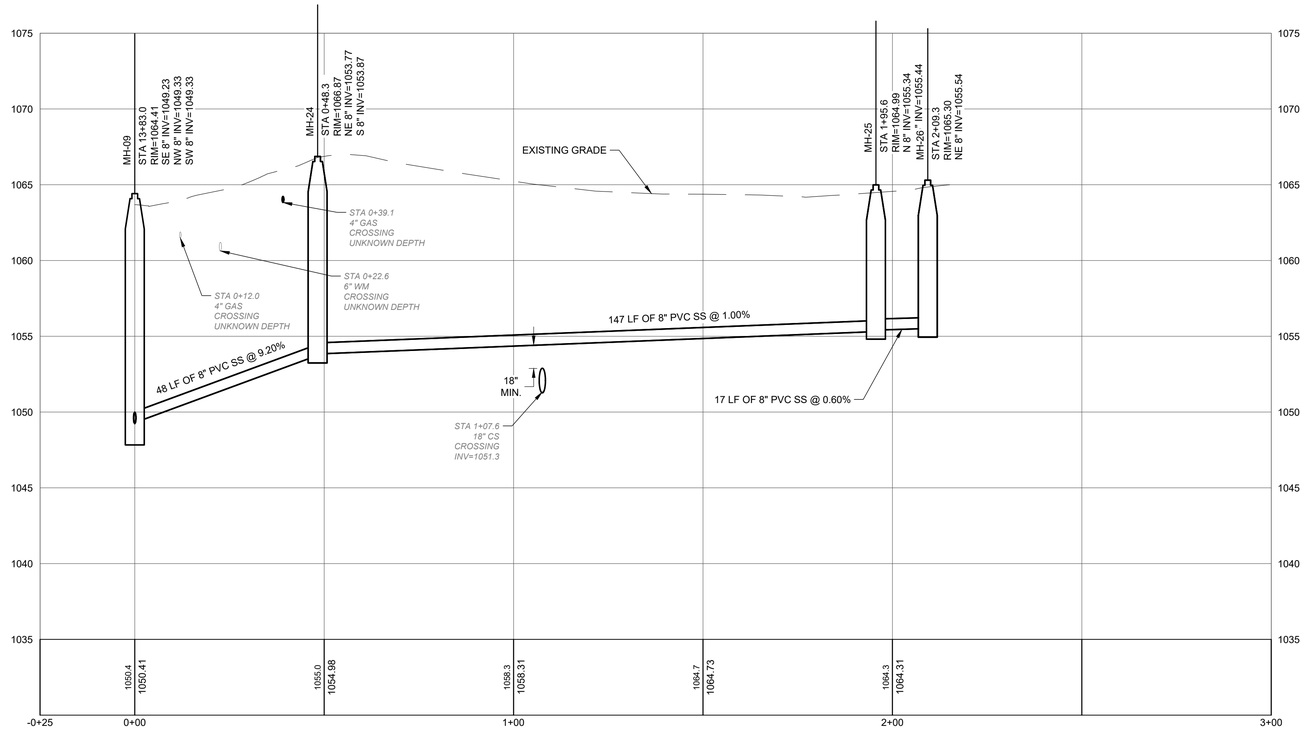

HORIZONTAL SCALE IN FEET
20 10 0 20 40
VERTICAL SCALE IN FEET
4 2 0 4 8

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

DONORA MON VALLEY SEWAGE AUTHORITY

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Cultural Resources Center
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Pittsburgh, PA 15222
412.454.5566 | www.wadetrim.com

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

BOSTON AVE. - SANITARY SEWER PLAN & PROFILE 9

ISSUED FOR:	DATE:	BY:
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60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
28 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552

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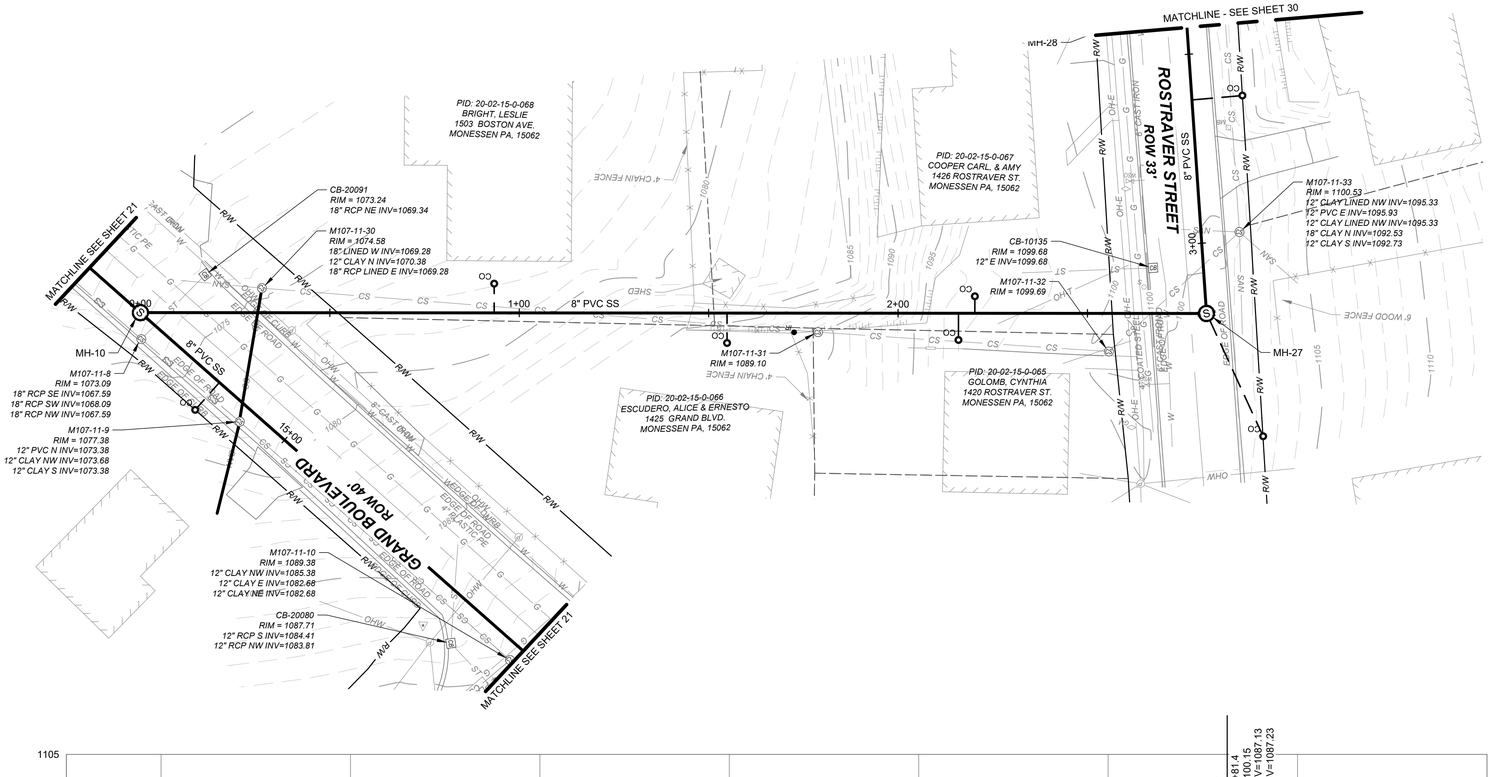

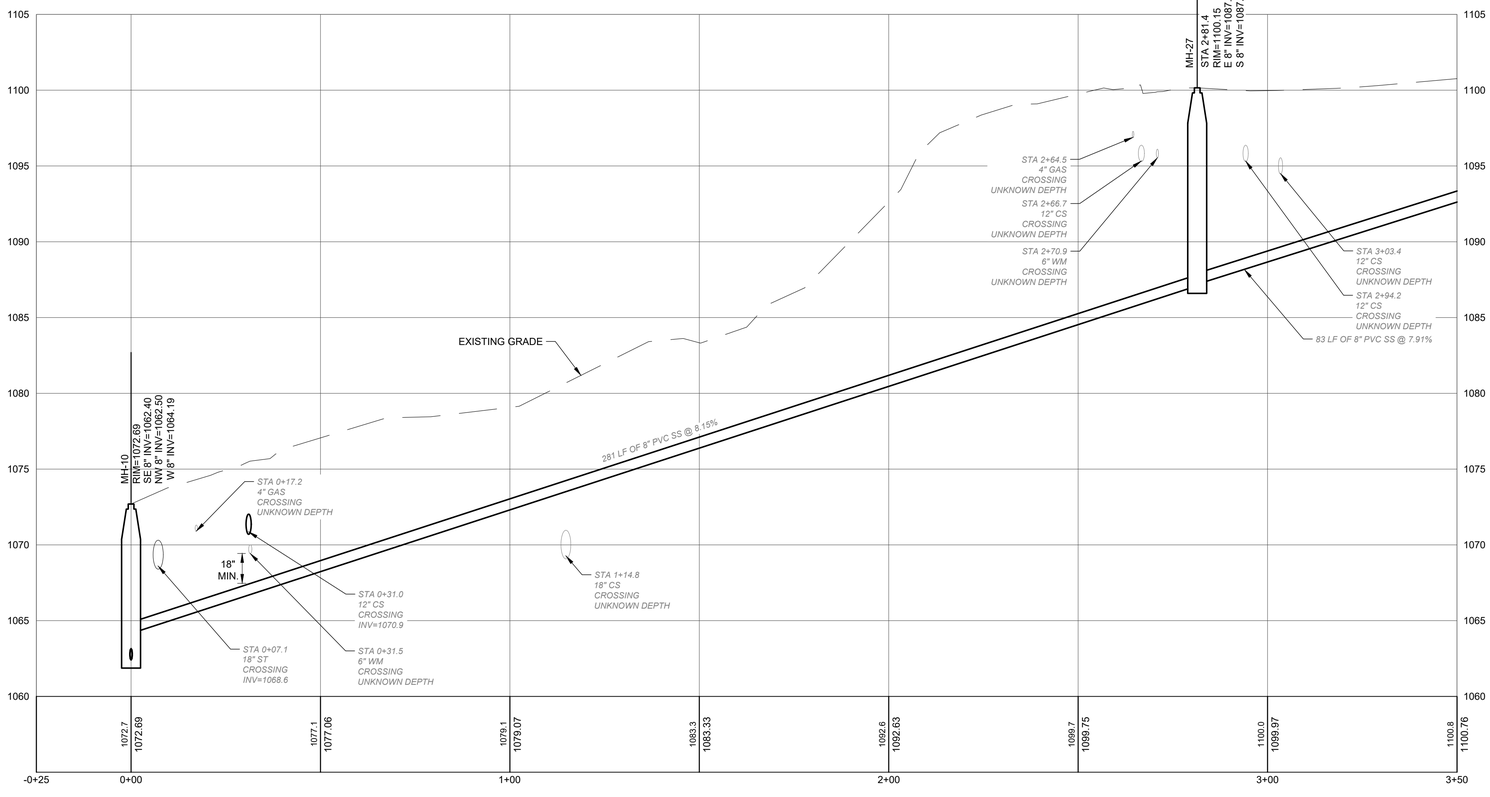

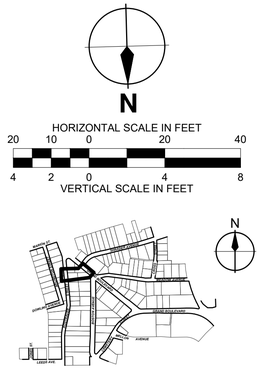

LOCATION MAP
NO SCALE

NOTES:

1. EXISTING 4" PEOPLES GAS LINE CROSS BORED THROUGH SEGMENT M107-11-9_M107-11-30, 21 LF DOWNSTREAM OF M107-11-9. CONTRACTOR TO COORDINATE RELOCATION OF THIS 4" GAS LINE WITH PEOPLES GAS.

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
MONESSEN PA

WADE TRIM

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Fox Chapel Corporate Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

GRAND BLVD. - SANITARY SEWER PLAN & PROFILE 10

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

SHEET
29 OF 57

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J. MCBRIDE
ENGINEER
PE085552

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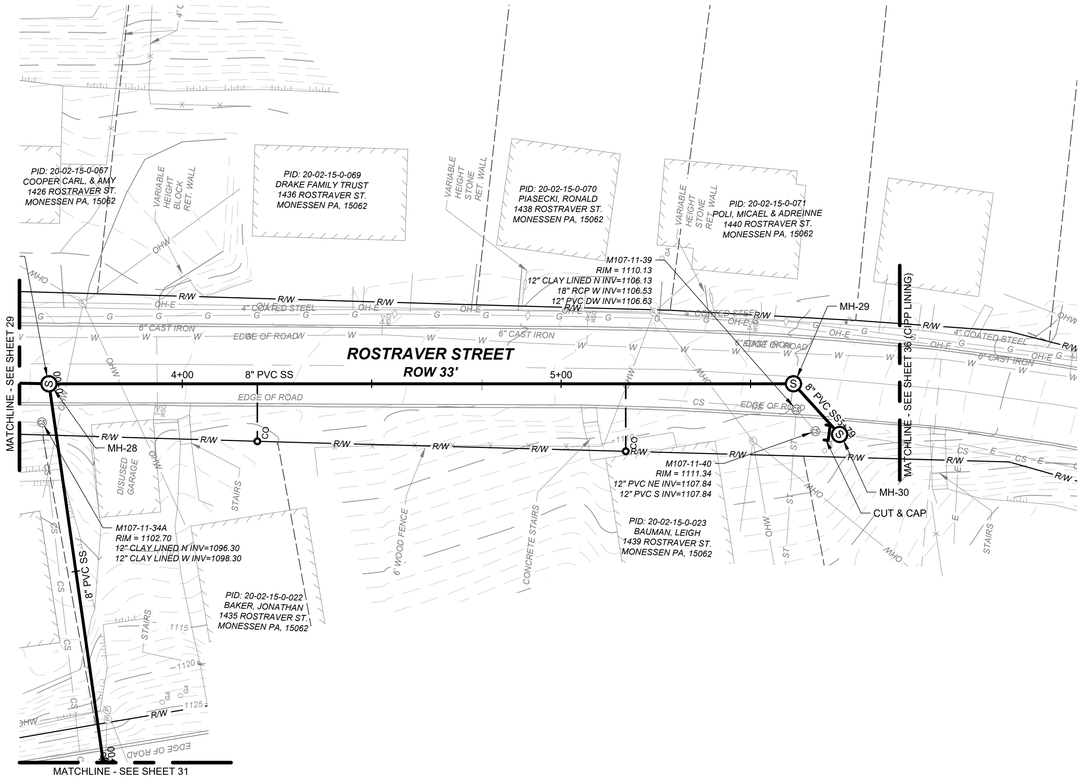

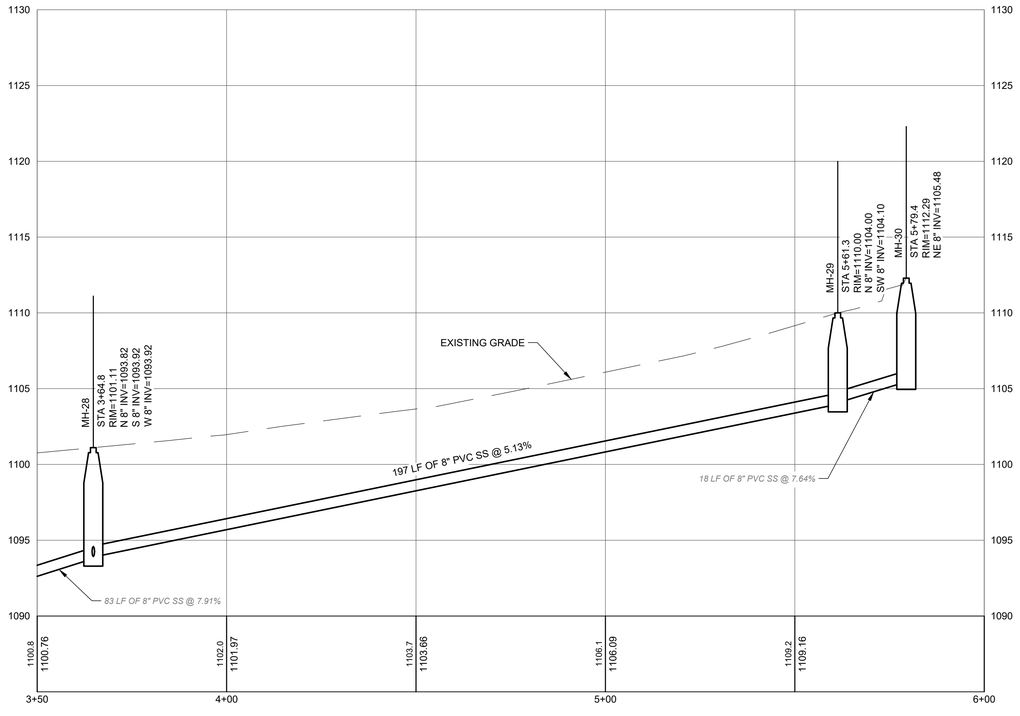

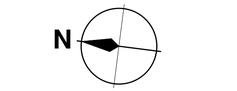

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

ROSTRAVER ST. - SANITARY SEWER PLAN & PROFILE 11

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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60% DESIGN	03/30/26	CJ
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PERMITS	04/24/26	CJ
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BID	05/07/26	CJ

JOB NO.
MVS2026.02H

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30 OF 57

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Pittsburgh, PA 15222
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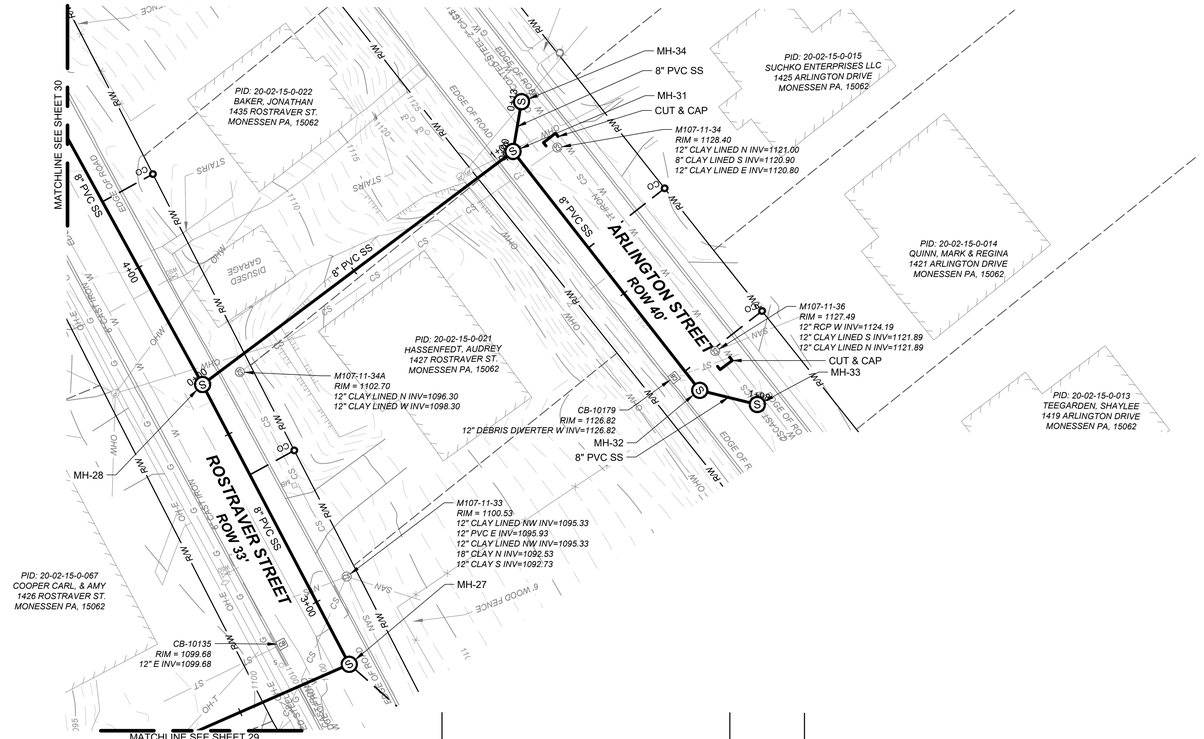

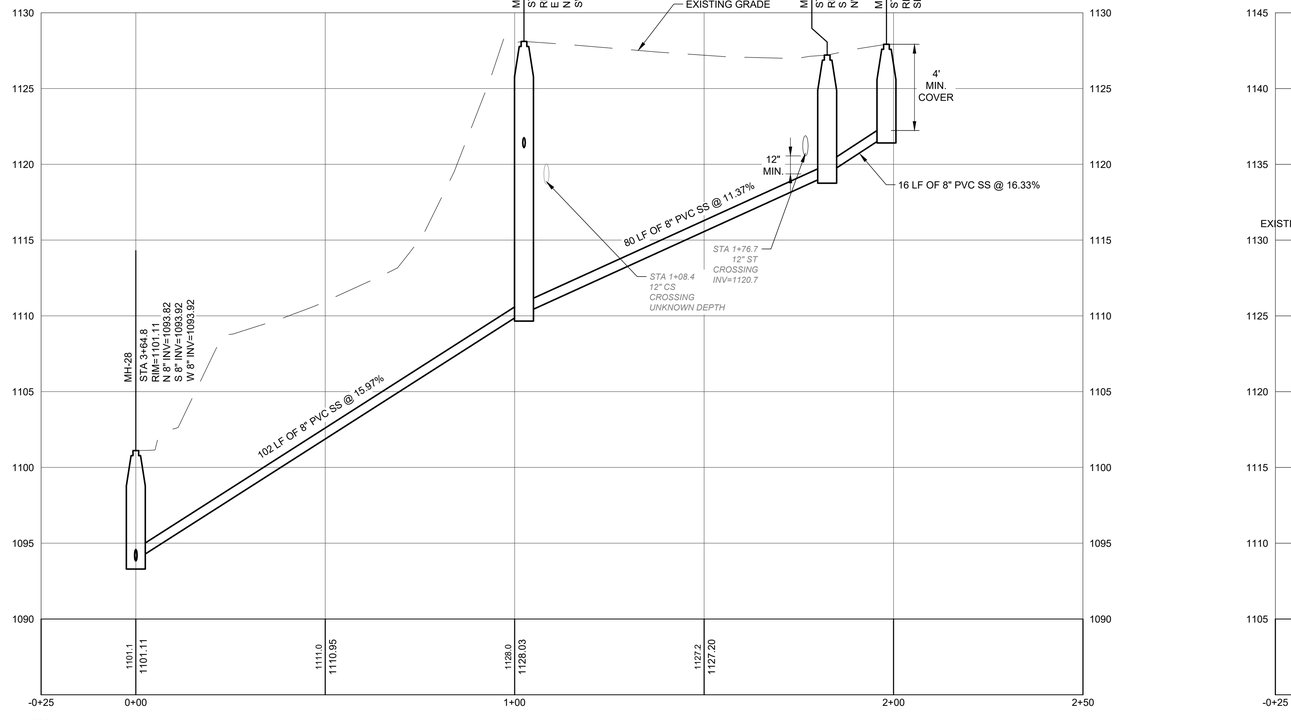

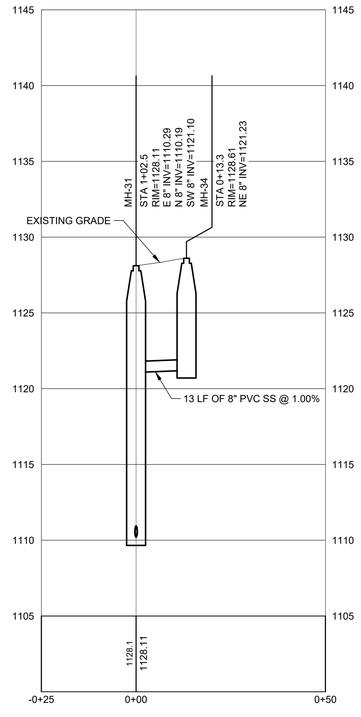

HORIZONTAL SCALE IN FEET
20 10 0 20 40
VERTICAL SCALE IN FEET
4 2 0 4 8

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
MONESSEN PA

WADE TRIM

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Pittsburgh Office Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
412.454.5566 | www.wadetrim.com

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

ARLINGTON ST. - SANITARY SEWER PLAN & PROFILE 12

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
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31 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J. MCBRIDE
ENGINEER
PE089550

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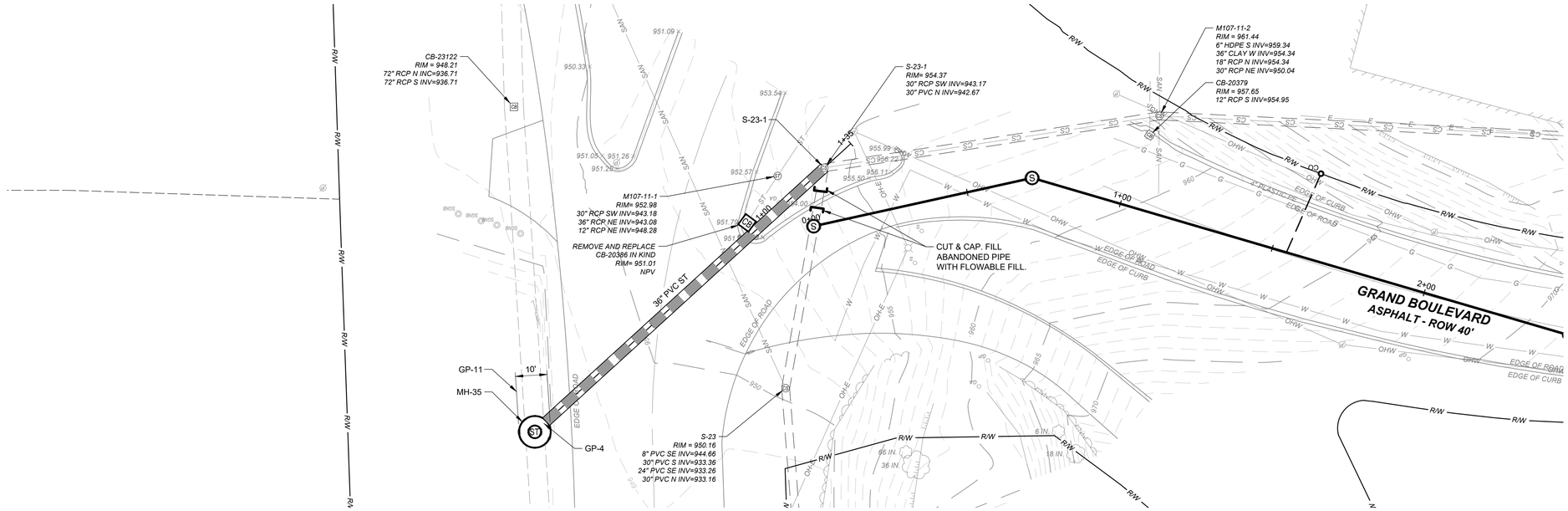

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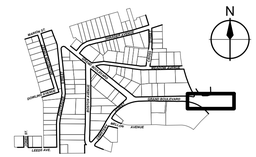
HORIZONTAL SCALE IN FEET
20 10 0 20 40
4 2 0 4 8
VERTICAL SCALE IN FEET



LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA MON VALLEY
DONORA • MONESSEN

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Four Gateway Center
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Pittsburgh, PA 15222
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
STORM SEWER PLAN & PROFILE 1

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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JASON J MCBRIDE
ENGINEER
PE085552

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32 OF 57

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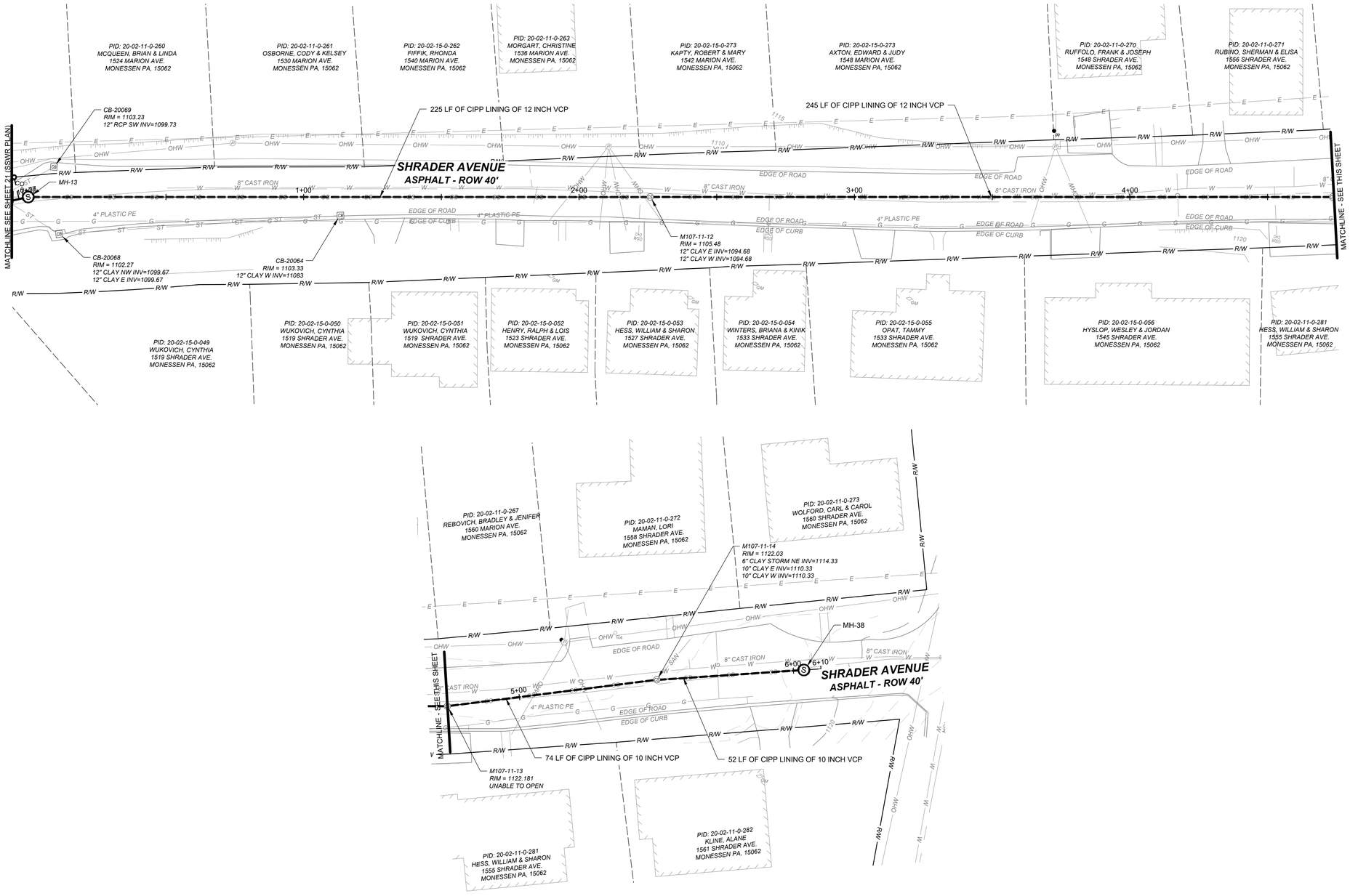

N

HORIZONTAL SCALE IN FEET
20 10 0 20 40

VERTICAL SCALE IN FEET
4 2 0 4 8

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
SHRADER AVE. - CIPP LINING 1

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
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33 OF 57

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ENGINEER
PE055552
PENNSYLVANIA

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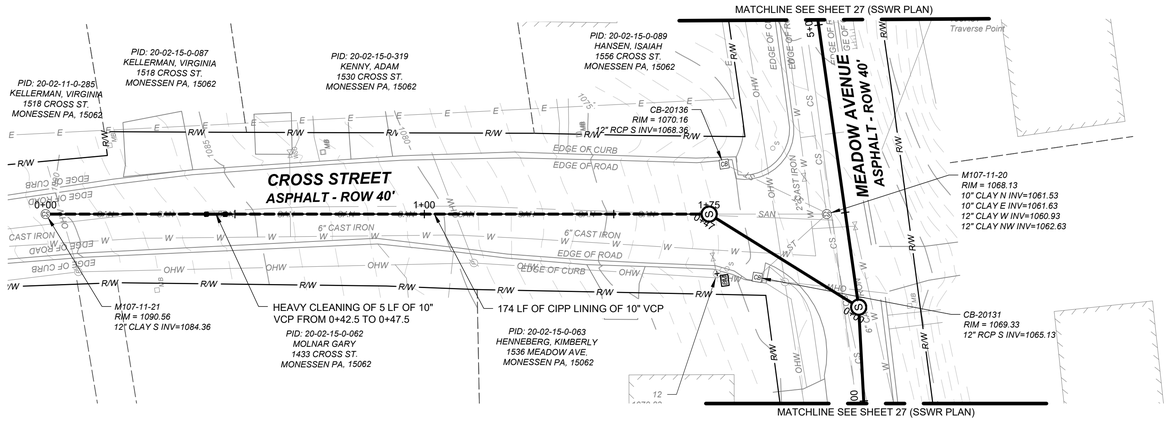

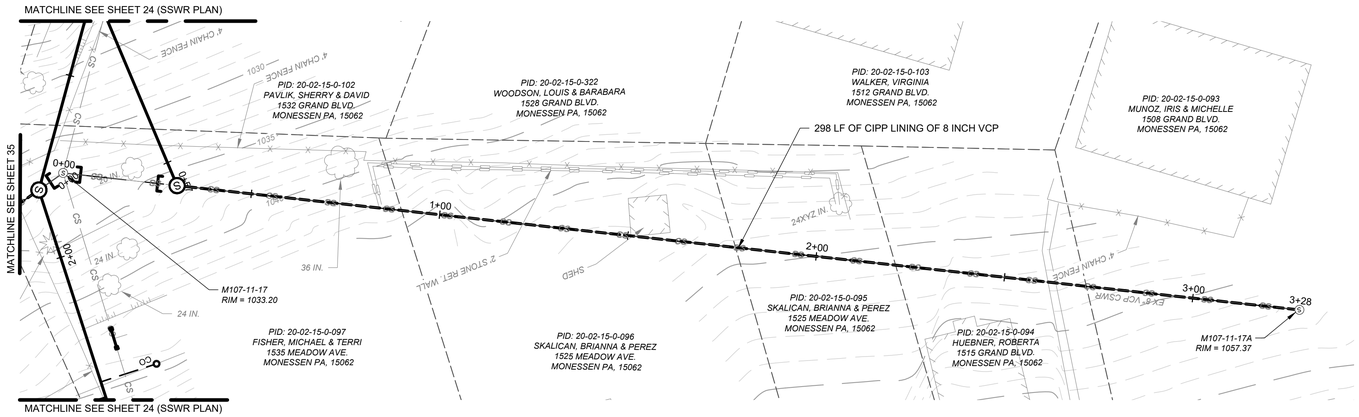

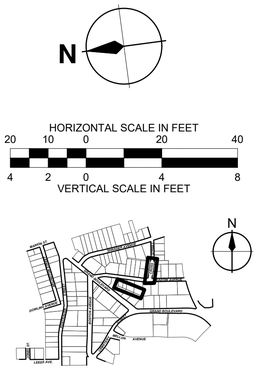

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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
CROSS ST. - CIPP LINING 2

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PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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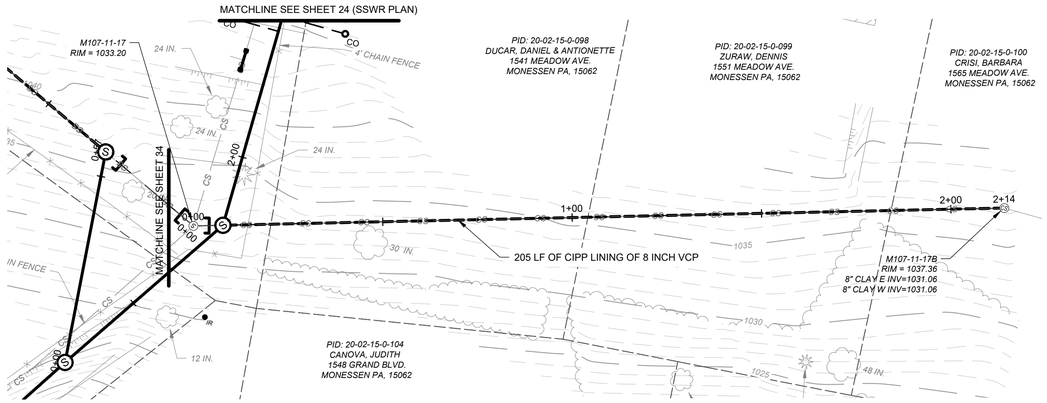

N

HORIZONTAL SCALE IN FEET

20 10 0 20 40

4 2 0 4 8

VERTICAL SCALE IN FEET

LOCATION MAP
NO SCALE

BY	DESCRIPTION	DATE	REV#

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
GRAND BLVD. - CIPP LINING 3

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PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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35 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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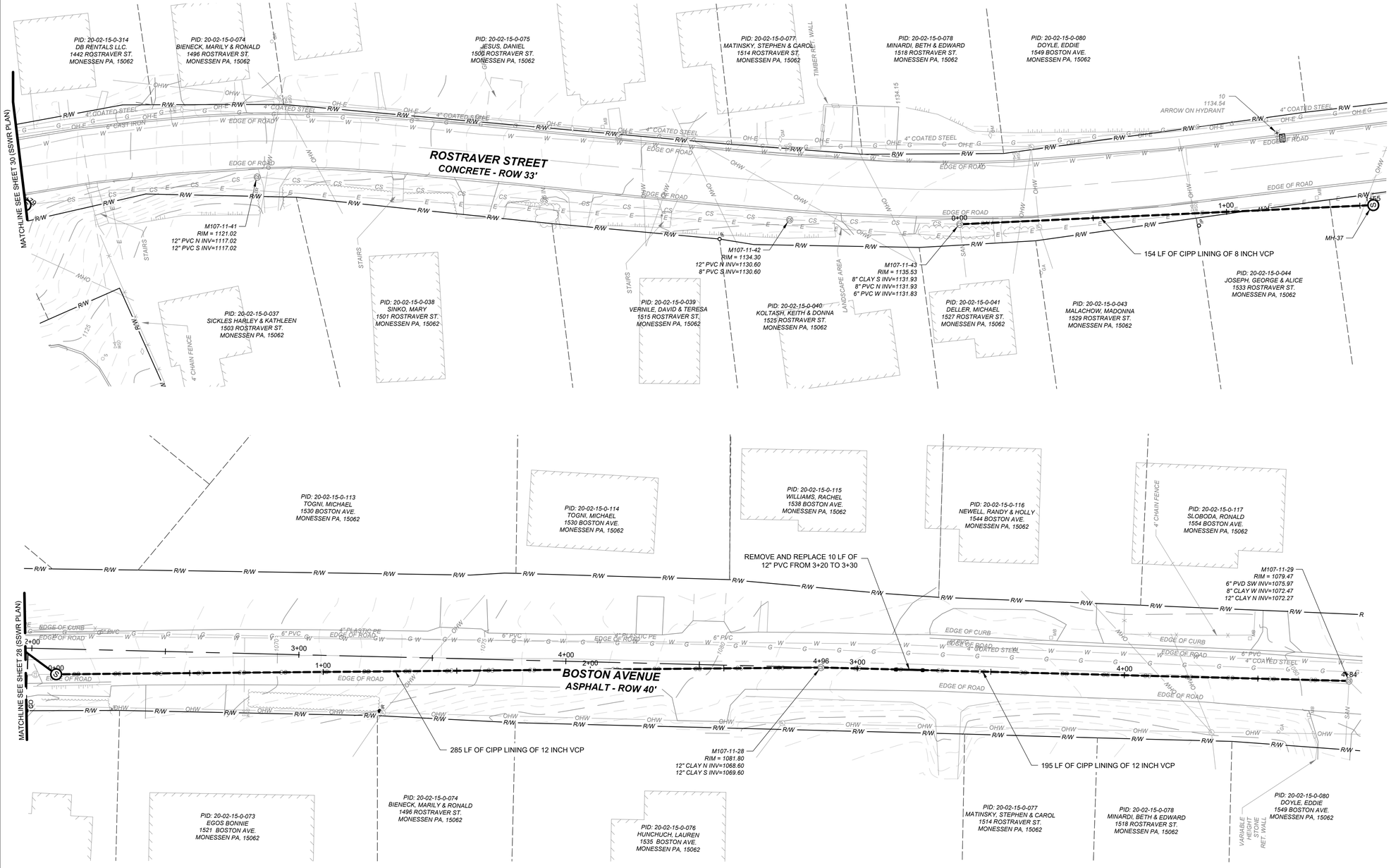

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DONORA MONESSEN MON VALLEY SEWAGE AUTHORITY

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
BOSTON AVE. & ROSTRAVER ST. - CIPP LINING 4

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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REGISTERED
PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085553
PENNSYLVANIA

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MVS2026.02H

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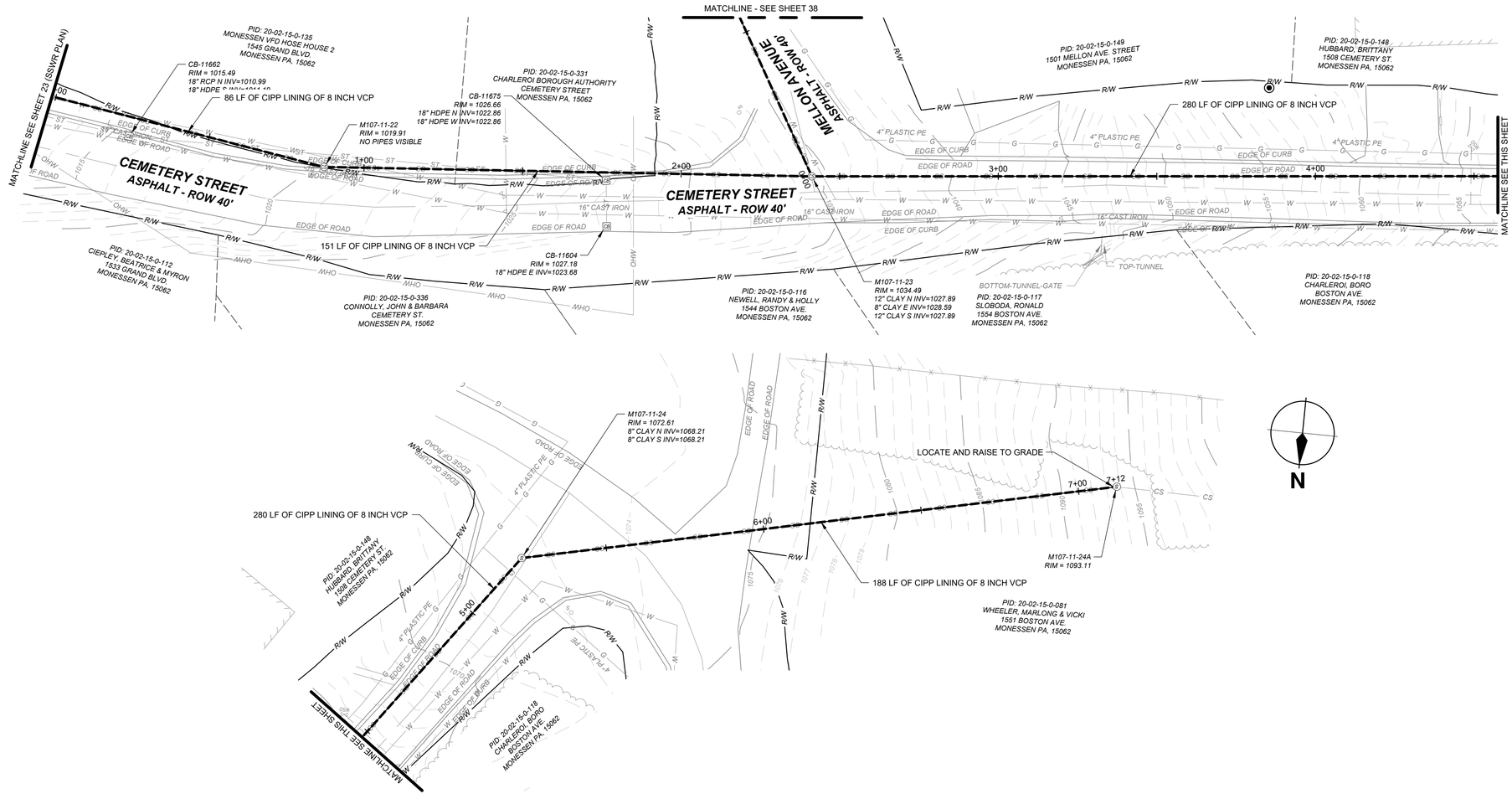

REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY
DONORA
MON VALLEY
DONORA MONESSEN

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Four Gateway Center
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

BOSTON AVE. & CEMETERY ST. - CIPP LINING 5

ISSUED FOR:	DATE:	BY:
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90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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MVS2026.02H

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37 OF 57

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PROFESSIONAL
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ENGINEER
PE059552

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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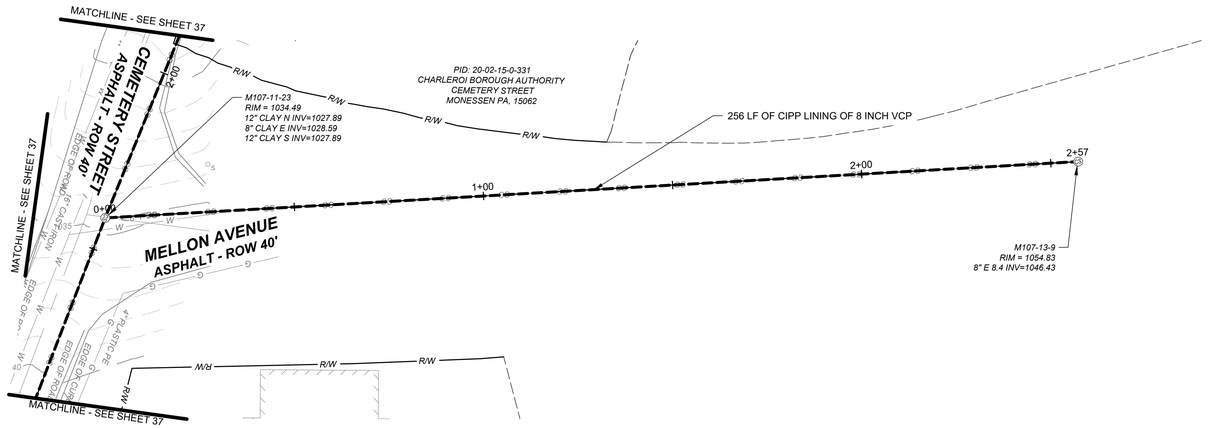

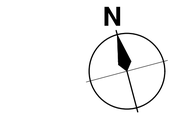

HORIZONTAL SCALE IN FEET

20 10 0 20 40

VERTICAL SCALE IN FEET

4 2 0 4 8

LOCATION MAP
NO SCALE

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
DONORA MON VALLEY SEWAGE AUTHORITY
MONESSEN, PA

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Four Gateway Center
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Pittsburgh, PA 15222
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MON VALLEY SEWAGE AUTHORITY
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

MELLON AVE. - CIPP LINING 6

ISSUED FOR:	DATE:	BY:
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60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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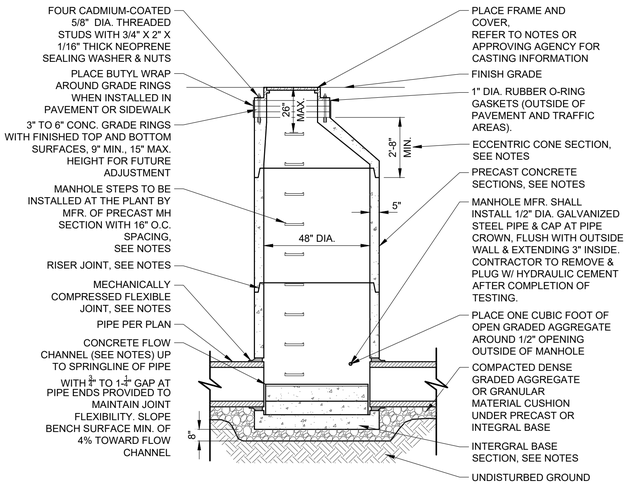
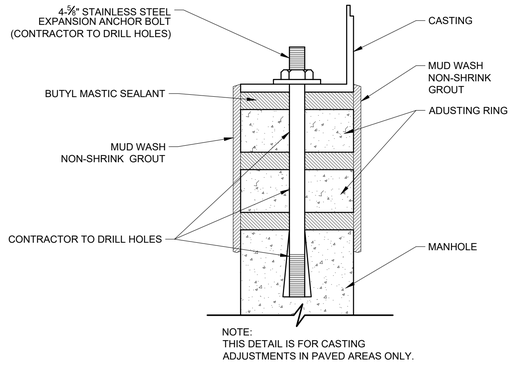


STANDARD SANITARY MANHOLE

NOT TO SCALE

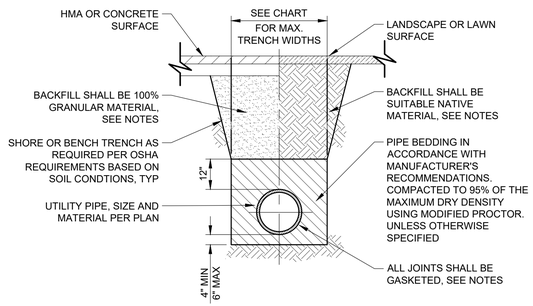


NOTE:
THIS DETAIL IS FOR CASTING ADJUSTMENTS IN PAVED AREAS ONLY.

CASTING ADJUSTMENT DETAIL

NOT TO SCALE

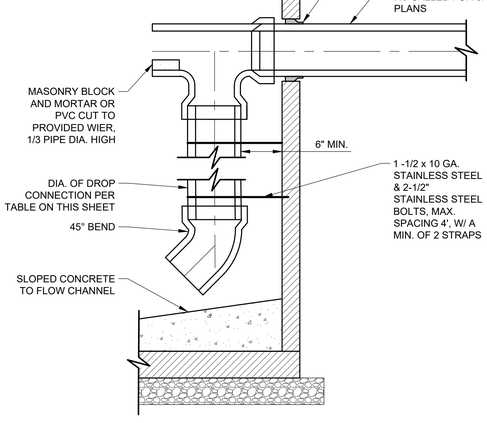
TRENCH WIDTHS
MAX WIDTH OF TRENCH 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE - 30" WIDE
15" THRU 36" PIPE - O.D. + 16"
42" THRU 60" PIPE - O.D. + 20"
OVER 60" PIPE - O.D. + 24"



TYPICAL TRENCH DETAIL

NOT TO SCALE

DROP SIZE TABLE	
DIA. OF SEWER	DIA. OF DROP CONECTION
8" & 10"	6"
12", 15" & 18"	10"



INTERIOR DROP CONNECTION

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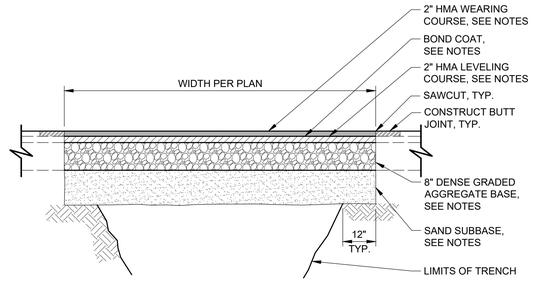
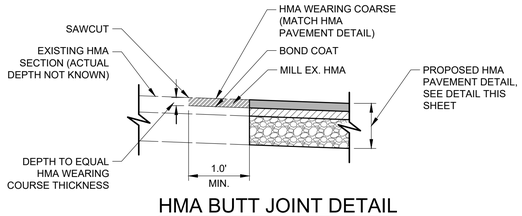


PAVEMENT RESTORATION DETAIL

NOT TO SCALE



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THE CITY OF MONESSON, PENNSYLVANIA
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SHEET 39 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PROJECT MANAGER:
CHIEF ENGINEER:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
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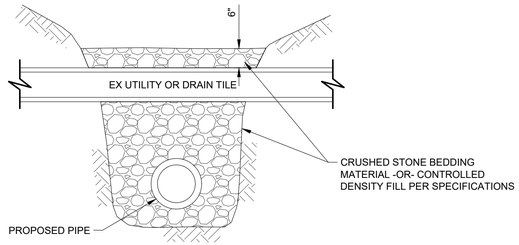
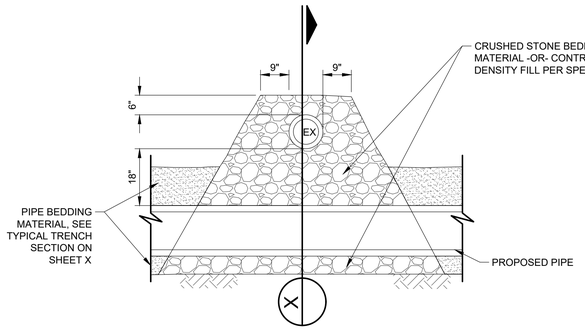


SECTION B



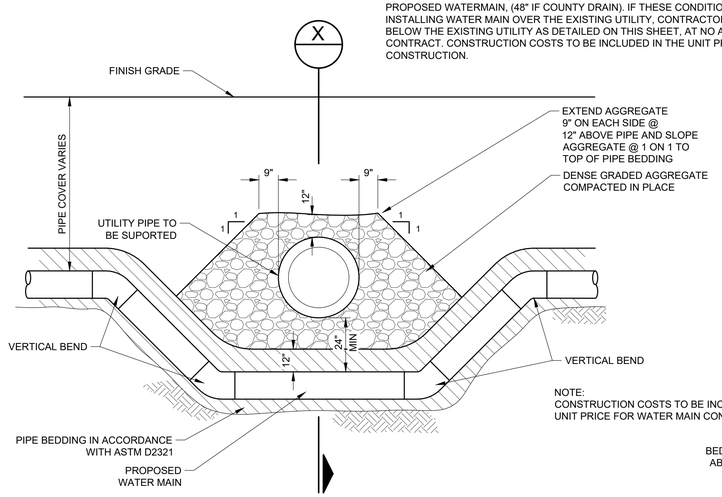
PROFILE VIEW

NOTE:
1. CRUSHED STONE OR CONTROLLED DENSITY FILL SHALL EXTEND FOR 9" EACH SIDE OF EXISTING PIPE, 6" ABOVE EXISTING PIPE & SHALL SLOPE OUT AT 1:1 (45°) SLOPE TO THE BOTTOM OF THE TRENCH

STANDARD PIPE SUPPORT DETAIL

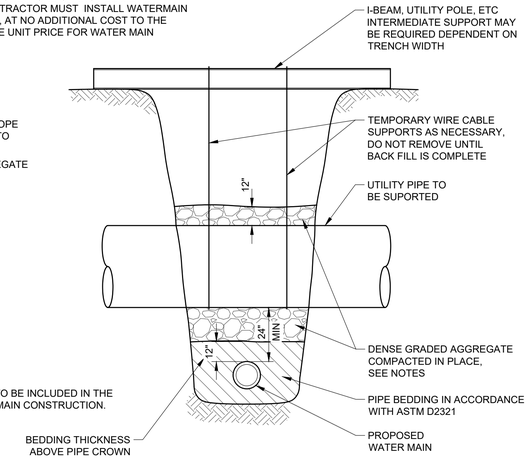
NOT TO SCALE

NOTE:
WHEN CROSSING AN EXISTING UTILITY, CONTRACTOR MUST MAINTAIN REQUIRED MIN. COVER OVER PROPOSED WATER MAIN, AND 18" MIN. VERTICAL CLEARANCE BETWEEN EXISTING UTILITY AND PROPOSED WATERMAIN, (48" IF COUNTY DRAIN). IF THESE CONDITIONS CANNOT BE MET BY INSTALLING WATER MAIN OVER THE EXISTING UTILITY, CONTRACTOR MUST INSTALL WATERMAIN BELOW THE EXISTING UTILITY AS DETAILED ON THIS SHEET, AT NO ADDITIONAL COST TO THE CONTRACT. CONSTRUCTION COSTS TO BE INCLUDED IN THE UNIT PRICE FOR WATER MAIN CONSTRUCTION.



PROFILE VIEW

NOTE:
CONSTRUCTION COSTS TO BE INCLUDED IN THE UNIT PRICE FOR WATER MAIN CONSTRUCTION.



SECTION A

UTILTIY CROSSING AND PIPE SUPPORT DETAIL

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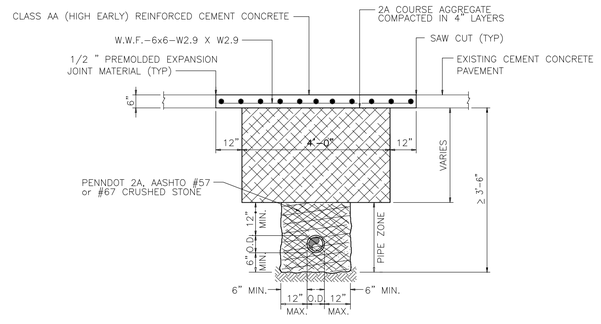
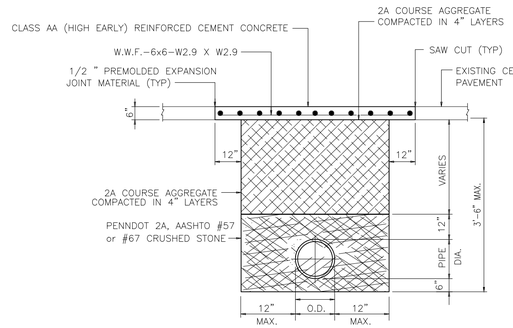
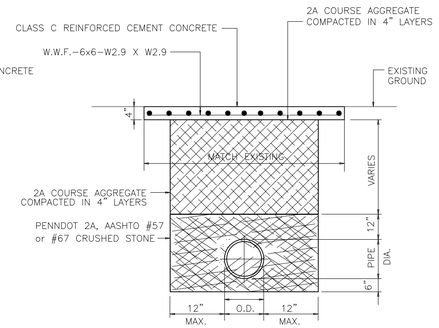


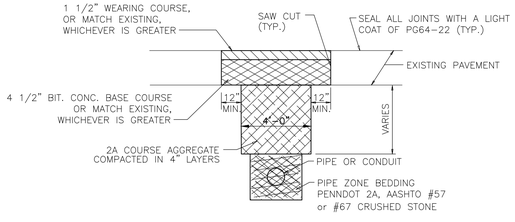
CEMENT CONCRETE DRIVEWAY
TYPICAL TRENCH BOX DETAIL



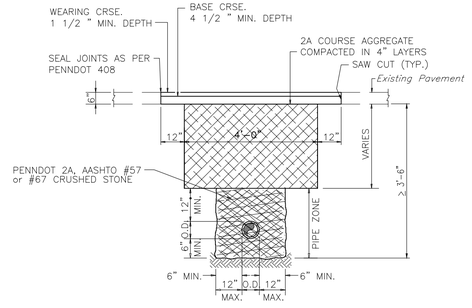
CEMENT CONCRETE DRIVEWAY RESTORATION



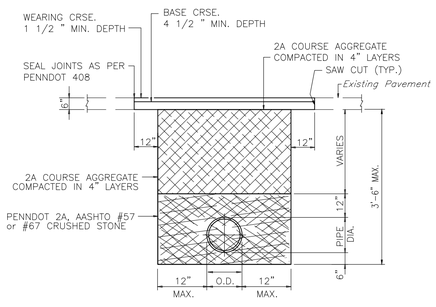
CEMENT CONCRETE SIDEWALK RESTORATION



MUNICIPAL ROAD BITUMINOUS
PAVEMENT RESTORATION SECTION



BITUMINOUS PAVEMENT DRIVEWAY
TYPICAL TRENCH BOX DETAIL



BITUMINOUS PAVEMENT DRIVEWAY RESTORATION

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JOB NO. MVS2026.02H

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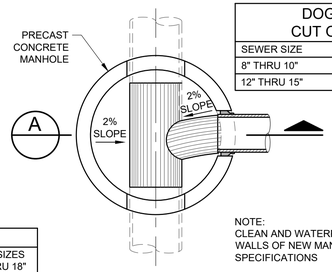
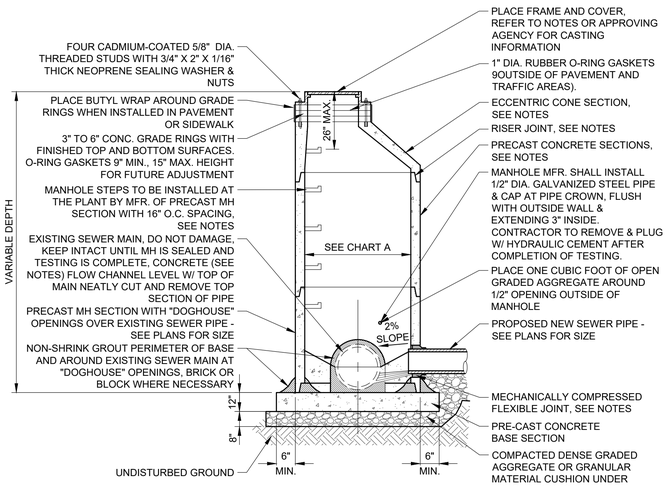


DOG HOUSE CUT OUT SIZES	
SEWER SIZE	MAX CUT OUT SIZE
8" THRU 10"	17 1/2"
12" THRU 15"	20"

TABLE A	
MANHOLE DIA.	PIPE SIZES
48" DIA.	8" THRU 18"
60" DIA.	21" THRU 30"
72" DIA.	36" THRU 42"

NOTE:
CLEAN AND WATERPROOF INSIDE WALLS OF NEW MANHOLES PER SPECIFICATIONS

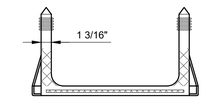
PLAN VIEW

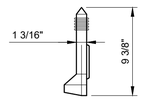


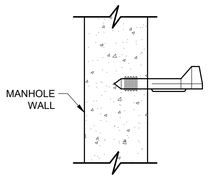
SECTION A

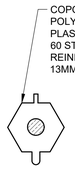
SANITARY MANHOLE OVER EXISTING SEWER DETAIL

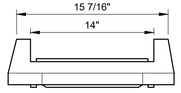
NOT TO SCALE







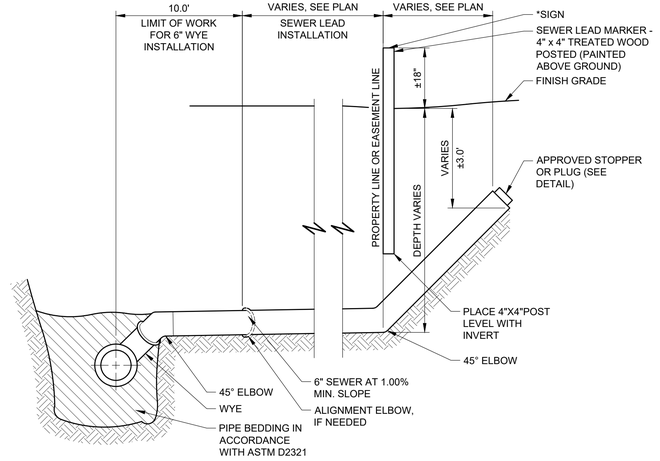




MANHOLE RUNGS
MANHOLE RUNGS SHALL BE POLYPROPYLENE THAT ENCAPSULATES A 1/2" STEEL REINFORCING ROD. STEEL ROD SHALL BE CONTINUOUS THROUGH THE ENTIRE LENGTH OF LEGS AND TREAD. STEEL SHALL CONFORM TO THE REQUIREMENTS OF GRADE 60 AND ASTM A-615. POLYPROPYLENE PLASTIC SHALL CONFORM WITH THE DETAILS SHOWN ON DRAWINGS AND SHALL BE AT LEAST 14" WIDE AS MANUFACTURED BY MA INDUSTRIES OR APPROVED EQUAL.

MANHOLE RUNGS

NOT TO SCALE

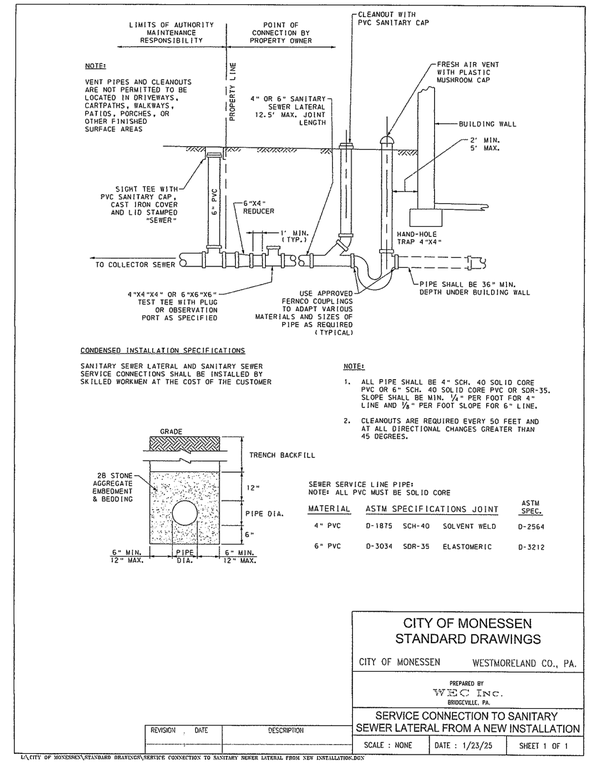


NOTES:

1. THE POSITION OF WYES SHOWN ON DRAWINGS IS APPROXIMATE AND IS INTENDED ONLY AS AN INDICATION THAT A WYE IS REQUIRED. ACTUAL POSITIONS WILL BE DETERMINED IN THE FIELD TO MOST CONVENIENTLY SERVE THE PROPERTY INTENDED AND WILL BE RECORDED ON A SET OF RECORD DRAWINGS.
2. WHEN SEWER LEAD ENDS BENEATH DRIVEWAY, PARKING LOT, ETC., (GRAVEL, CONCRETE, ASPHALT) TOP OF SEWER LEAD MARKER POST SHALL BE 6" BELOW SURFACE. FASTEN 3 - 1/2"x 1/4" STEEL PLATE ON TOP OF POST SO IT CAN BE LOCATED WITH A METAL DETECTOR.
3. * SIGN - TO BE FURNISHED BY OWNER.
4. BEDDING UNDER WYE:
   RIGID PIPE - PLACE 2 CUBIC FEET (MIN.) OF 3500 PSI CONC. AGAINST UNDISTURBED EARTH FOR SUPPORT OF TEE.
   FLEXIBLE PIPE - PLACE 2 CUBIC FEET OF STONE AS SPECIFIED IN CLASS II BEDDING.

WYE AND SEWER LEAD INSTALLATION

NOT TO SCALE



CONDENSED INSTALLATION SPECIFICATIONS

SANITARY SEWER LATERAL AND SANITARY SEWER SERVICE CONNECTIONS SHALL BE INSTALLED BY SKILLED WORKMEN AT THE COST OF THE CUSTOMER

NOTE:

1. ALL PIPE SHALL BE 4" SCH. 40 SOLID CORE PVC OR 6" SCH. 40 SOLID CORE PVC OR SDR-35. SLOPE SHALL BE MIN. 1/4" PER FOOT FOR 4" LINE AND 1/8" PER FOOT SLOPE FOR 6" LINE.
2. CLEANOUTS ARE REQUIRED EVERY 50 FEET AND AT ALL DIRECTIONAL CHANGES GREATER THAN 45 DEGREES.

SEWER SERVICE LINE PIPE:
NOTE: ALL PVC MUST BE SOLID CORE

MATERIAL	ASTM SPECIFICATIONS	JOINT	ASTM SPEC.
4" PVC	D-1875 SCH-40	SOLVENT WELD	D-2564
6" PVC	D-3034 SDR-35	ELASTOMERIC	D-3212

CITY OF MONESSEN
STANDARD DRAWINGS

CITY OF MONESSEN — WESTMORELAND CO., PA.

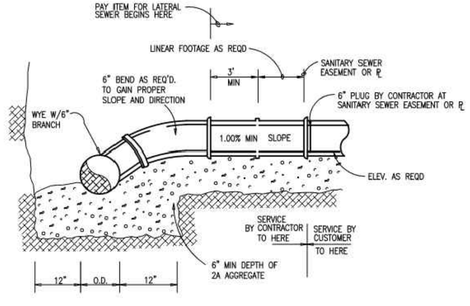
PREPARED BY
WEC Inc.
BRIDGEVILLE, PA.

SERVICE CONNECTION TO SANITARY SEWER LATERAL FROM A NEW INSTALLATION

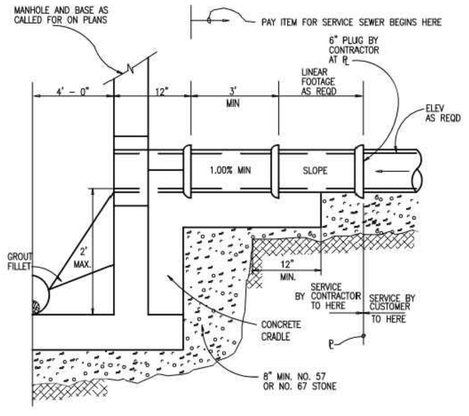
SCALE : NONE | DATE : 1/23/25 | SHEET 1 OF 1

REVISION	DATE	DESCRIPTION

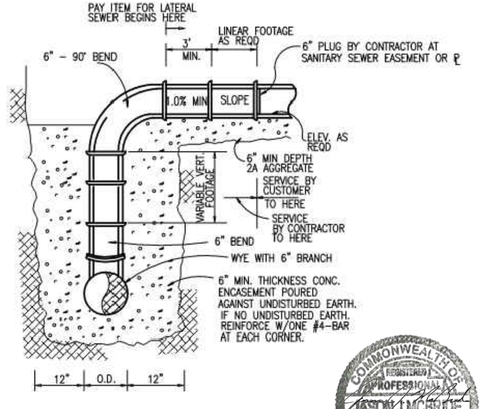
L:\CITY OF MONESSEN\STANDARD DRAWINGS\SERVICE CONNECTIONS TO SANITARY SEWER LATERAL FROM NEW INSTALLATIONS.DGN



SERVICE CONNECTION TYPE I



SERVICE CONNECTION TYPE II



SERVICE CONNECTION TYPE III

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JASON J. MCBRIDE — ENGINEER — PE89552

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STANDARD DETAILS 3

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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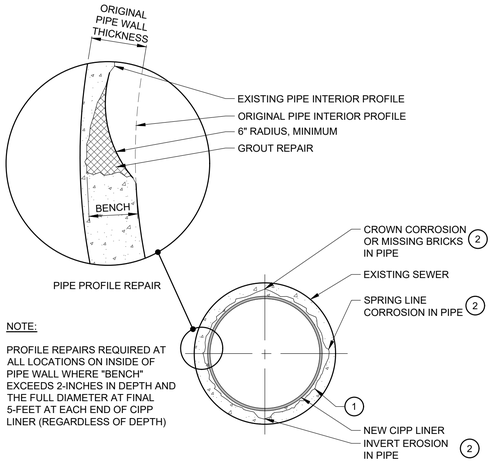


NOTE:

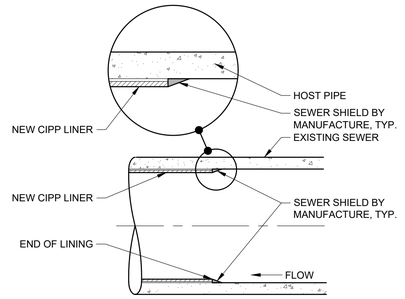
PROFILE REPAIRS REQUIRED AT ALL LOCATIONS ON INSIDE OF PIPE WALL WHERE "BENCH" EXCEEDS 2-INCHES IN DEPTH AND THE FULL DIAMETER AT FINAL 5-FEET AT EACH END OF CIPP LINER (REGARDLESS OF DEPTH)

KEY NOTES:

1. EXISTING INSIDE DIAMETER OF THE REINFORCED CONCRETE PIPE MAY HAVE AN IRREGULAR SHAPE (NON-CIRCULAR) AS A RESULT OF MATERIAL LOSS DUE TO CORROSION AND/OR EROSION.
2. THE CONTRACTOR SHALL INSPECT THE INTERIOR SURFACES OF ALL PIPELINES AFTER CLEANING AND APPLY PROFILE REPAIR GROUT PATCHES WHERE REQUIRED.

TYPICAL CIPP LINER SECTION DETAIL

NOT TO SCALE



NOTES:

1. ENSURE ALL DEBRIS IS REMOVED PRIOR TO LINING.
2. CONTRACTOR SHALL REPAIR DETERIORATION ON INSIDE CIRCUMFERENCE OF PIPE WALL TO FORM A SMOOTH SURFACE FOR THE END OF CIPP LINER. THE FINISHED SURFACE OF THE REPAIR SHALL HAVE A MINIMUM RADIUS OF 6 INCHES.
3. PIPE PROFILE REPAIRS SHALL BE MADE AT THE FINAL 5-FEET AT EACH END OF CIPP LINER

TYPICAL CIPP LINER END DETAIL

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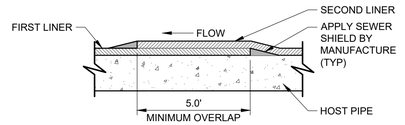

TYPICAL CIPP OVERLAP DETAIL

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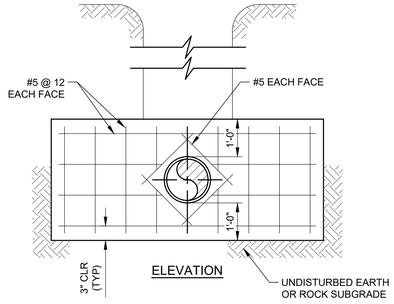

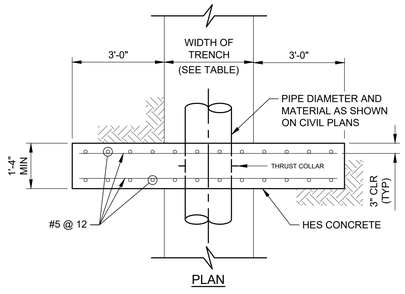

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STANDARD DETAILS 4

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PLOTTED BY: RUSSELL.WHALEY
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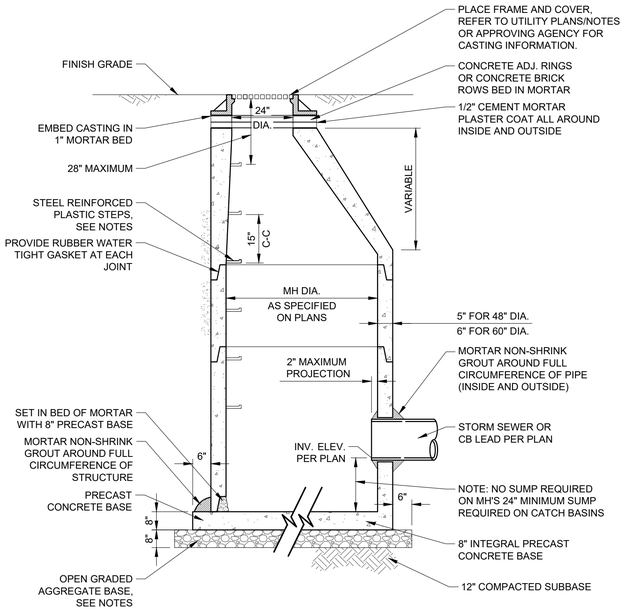
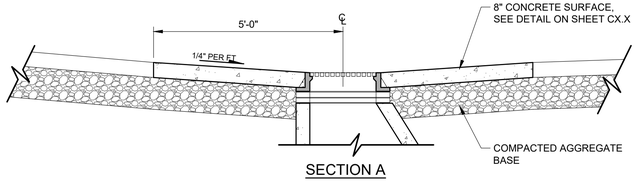
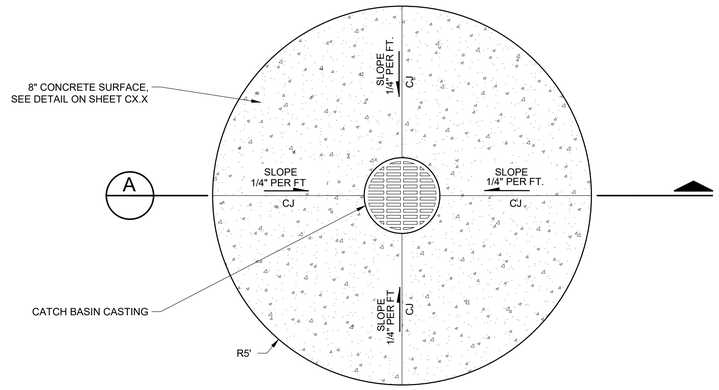


STANDARD STRUCTURE DETAIL

NOT TO SCALE



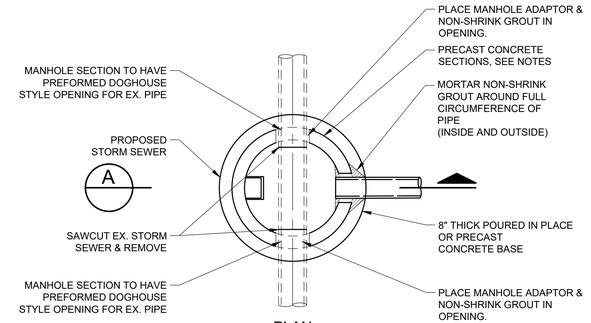
SECTION A



PLAN

ROUND CONCRETE COLLAR DETAIL

NOT TO SCALE



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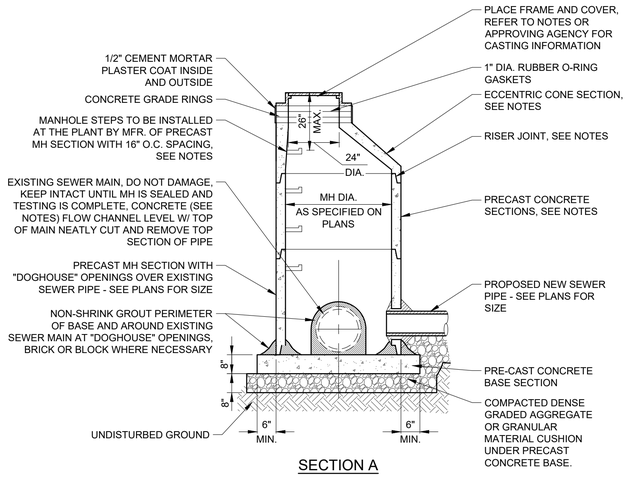
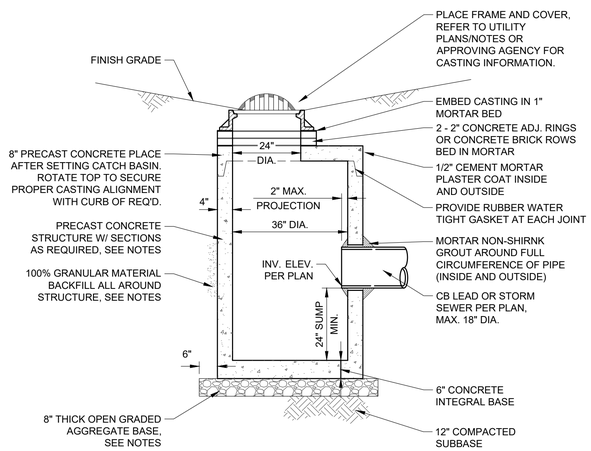


SECTION A

MANHOLE OVER EXISTING SEWER DETAIL

NOT TO SCALE



36" DIA. CATCH BASIN DETAIL

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REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

STANDARD DETAILS 5

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO. MVS2026.02H

SHEET 43 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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Fort Duquesne Center
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Pittsburgh, PA 15222
412.454.5566 | www.wadetrim.com

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PROJECT MANAGER:
CAD/BIM MANAGER:
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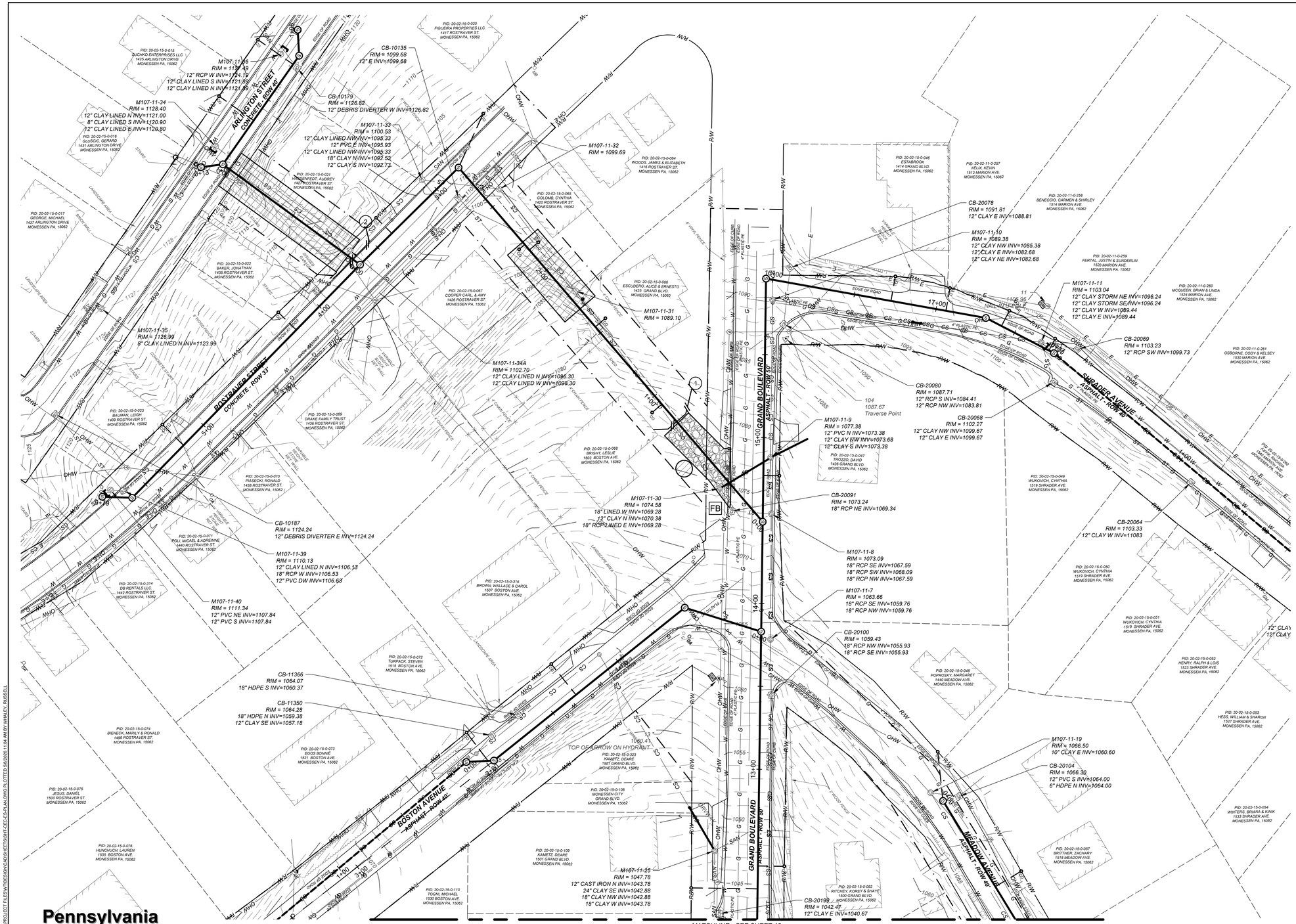
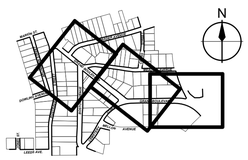


HORIZONTAL SCALE IN FEET

30 15 0 30 60



LOCATION MAP
NO SCALE

LINE WORK - PROPOSED

- RIGHT OF WAY LINE — R/W
- MAJOR CONTOUR — 100
- MINOR CONTOUR — 101
- TEMPORARY SILT FENCE LIMITS OF DISTURBANCE/ PROJECT LIMITS

UTILITY LINE WORK

- SANITARY SEWER MAIN (UP TO 24")
- SANITARY SEWER MAIN (24" AND UP)
- STORM SEWER LINE (UP TO 24")

E & S - LEGEND

- EROSION CONTROL MATTING
- COMPOST FILTER SOCK - 18" — #
- ROCK CONSTRUCTION ENTRANCE
- SOIL STOCK PILE
- PUMPED WATER FILTER BAG — FB

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Project Serial Number: 20253490894-000, 20261323716-000

NOTES:

1. SEE SHEETS 47 AND 48 FOR SOIL EROSION AND SEDIMENTATION CONTROL NOTES.
2. SEE SHEET 49 FOR SOIL EROSION AND SEDIMENTATION CONTROL DETAILS.
3. DIVERSION BERMS SHOULD BE PLACED AROUND THE BASIN'S PERIMETER DURING ALL PHASES OF CONSTRUCTION TO DIVERT ALL SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE BASIN. THESE BERMS SHOULD NOT BE REMOVED UNTIL ALL CONSTRUCTION WITHIN THE BASIN'S DRAINAGE AREA IS COMPLETED AND THE AREA IS STABILIZED. DIRECTLY CONNECTED OUTFALLS WILL BE BLOCKED FROM STORM WATER DISCHARGES TO THE BMP UNTIL ALL UPSTREAM AREAS HAVE BEEN STABILIZED.
4. ALL SOILS WITHIN THE PROJECT AREA ARE CLASSIFIED AS URBAN LAND-GUERNSEY COMPLEX (MAP UNIT SYMBOL: UhD).
5. INLET PROTECTION SHALL BE INSTALLED ON ALL EXISTING CATCH BASINS AND INLETS IN THE PROJECT AREA.
6. FOR EXISTING FEATURES SEE TOPOGRAPHIC SURVEY OR EXISTING CONDITIONS PLAN (SHEET 5-16).

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
E&SC PLAN 1

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BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JASON J MCBRIDE ENGINEER PE085532

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JOB NO.
MVS2026.02H

SHEET
44 OF 57

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

PROJECT MANAGER:
PROJECT ENGINEER:
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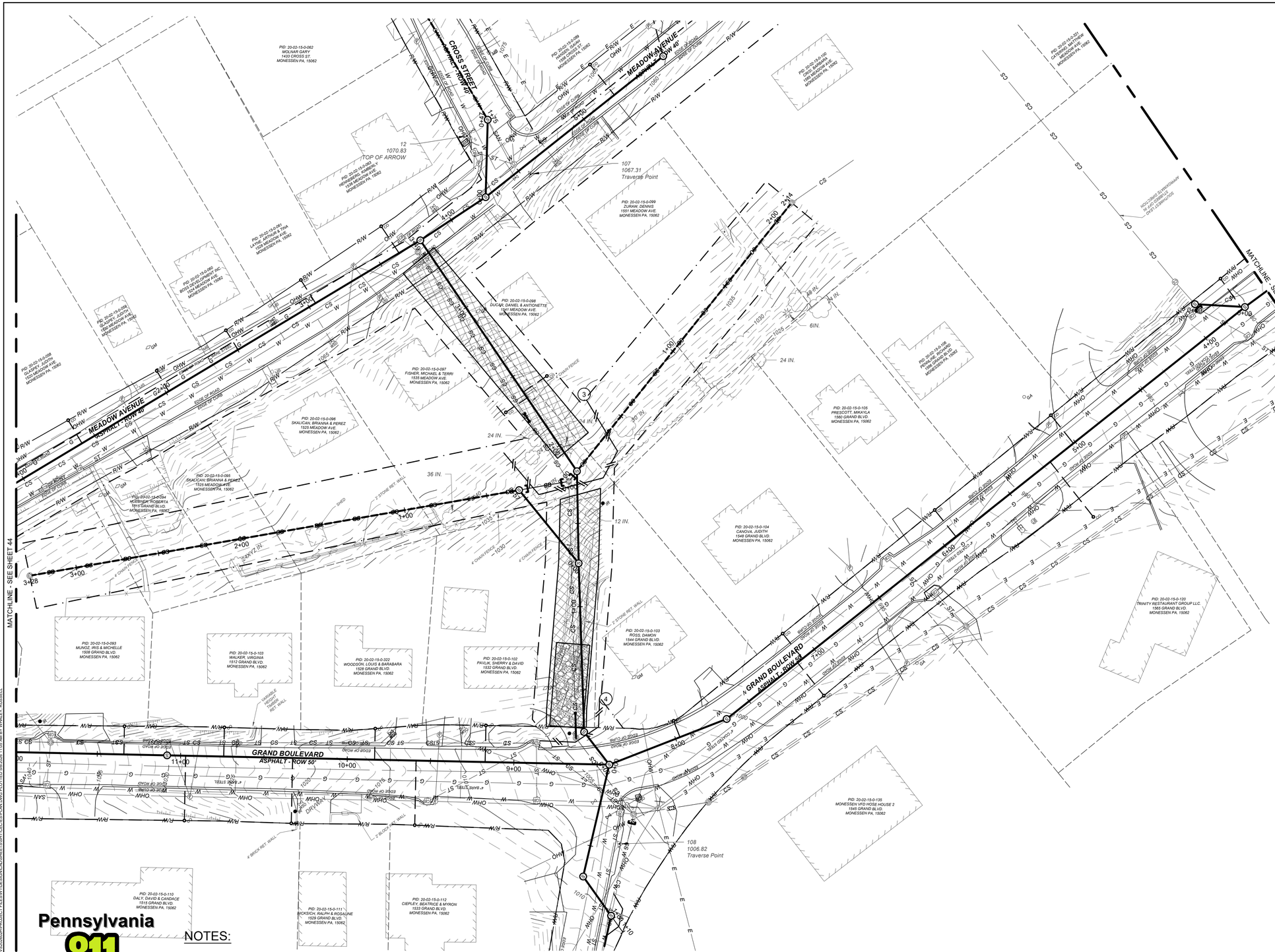

HORIZONTAL SCALE IN FEET

30 15 0 30 60

LOCATION MAP
NO SCALE

LINE WORK - PROPOSED

- RIGHT OF WAY LINE — R/W
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Project Serial Number: 20253490894-000, 20261323716-000

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MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
E&SC PLAN 2

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100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO.
MVS2026.02H

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45 OF 57

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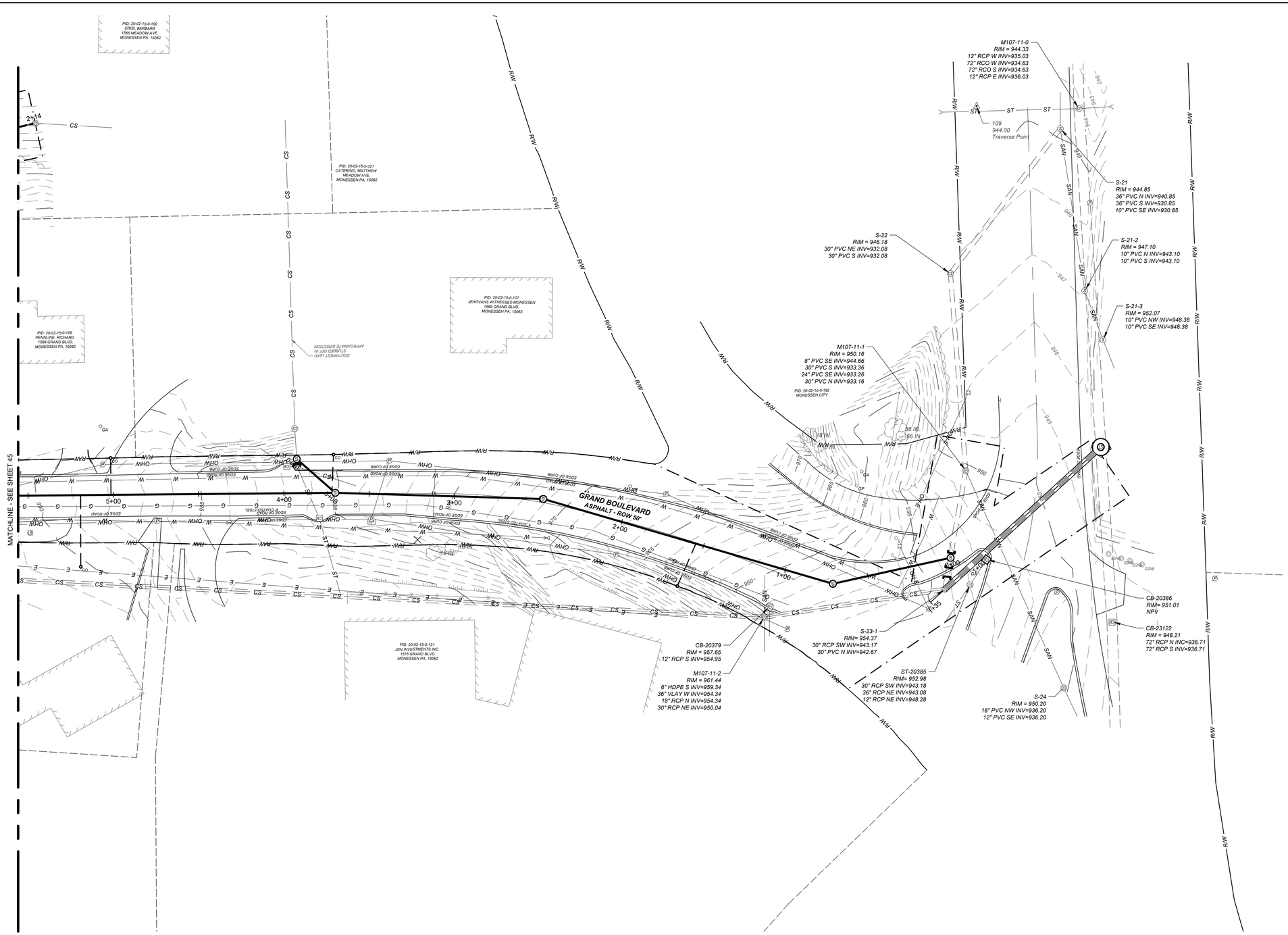
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

PROJECT MANAGER:
PERSONALIZED:C:\ACADDOCS\WADE TRIM\MVS\2026\02H\PROJECT FILES\WTDESIGN\CAD\SHEETS\SHT-CEC-ES-PLAN.DWG PLOTTED:5/8/2026 11:05 AM BY WHALEY, RUSSELL



NOTES:

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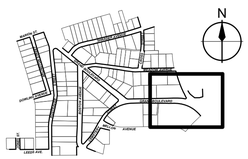
HORIZONTAL SCALE IN FEET
30 15 0 30 60



LOCATION MAP
NO SCALE

LINE WORK - PROPOSED

- RIGHT OF WAY LINE — R/W
- MAJOR CONTOUR — 100
- MINOR CONTOUR — 101
- TEMPORARY SILT FENCE
- LIMITS OF DISTURBANCE/ PROJECT LIMITS

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- EROSION CONTROL MATTING
- COMPOST FILTER SOCK - 18" — #
- ROCK CONSTRUCTION ENTRANCE
- SOIL STOCK PILE
- PUMPED WATER FILTER BAG — FB

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SEWAGE AUTHORITY
DONORA MON VALLEY
DONORA, PA
MONESSEN

WADE TRIM
Wade Trim, Inc.
Fort Pitt Commerce Center
444 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
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MON VALLEY SEWAGE AUTHORITY
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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
E&SC PLAN 3

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COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE085552

JOB NO.
MVS2026.02H

SHEET
46 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PROJECT MANAGER:
CHRISTOPHER RUSSELL
C:\Users\CRUSSELL\DOCUMENTS\ACCDOCS\WADE TRIM\MVS2026.02 - MARION AVE HILLTOP AREA SEWER SEPERATION PROJECT FILES\WTDESIGNCAD\SHEETS\SHT-CEC-ES-PLAN.DWG PLOTTED 4/8/2026 11:05 AM BY WHALEY, RUSSELL

STANDARD E&S NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
15. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
17. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
18. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
19. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
21. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
22. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
23. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP $10,000 PER DAY IN CIVIL PENALTIES, UP TO $10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO $25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
33. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
34. EXPECTED CONSTRUCTION WASTES WILL CONSIST OF PACKAGING MATERIAL AND SEDIMENT CLEANED FROM BMPS. PACKAGING FROM THE MATERIALS BROUGHT ONSITE WILL BE DISPOSED OF BY A LICENSED HAULER. SEDIMENT REMOVED FROM BMPS WILL BE MIXED WITH OTHER WASTE SOILS AND DISPOSED OF OFFSITE. GARBAGE MUST BE PROPERLY DISPOSED OF AT A PERMITTED FACILITY. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, PADEP, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
35. EXCESS FILL MATERIAL AND WASTE SOIL IS TO BE HAULED OFFSITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A NPDES PERMITTED STOCKPILING SITE. UPON AWARD OF BID, THE CONTRACTOR IS TO SUBMIT PERMIT INFORMATION (PERMIT NUMBER AND LOCATION) FOR THE PROPOSED FILL MATERIAL DISPOSAL AND STOCKPILING SITE.

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
E&SC PLAN NOTES 1

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30% DESIGN	03/09/26	CJ
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PERMITS	04/24/26	CJ
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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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DESIGNED: MWA/EJD/CAD/COD/SWADE TRIM/MVS02602H/PROJECT FILES/WTDESIGN/CAD/SHEETS/SHT-DEC-ES-NOTES.DWG PLOTTED 5/6/2026 11:05 AM BY WHALEY, RUSSELL

INSPECTION AND MAINTENANCE

1. MAINTENANCE AND INSPECTION OF SEDIMENT CONTROL FEATURES SHALL CONFORM TO PA CODE CHAPTERS 102 AND 105.
2. THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL RUNOFF IS DIRECTED TO THE SEDIMENT CONTROL DEVICES.
3. INSPECT ALL E&SPC DEVICES WEEKLY AND AFTER EACH RUNOFF EVENT UNLESS OTHERWISE NOTED. INITIATE NEEDED REPAIRS IMMEDIATELY AFTER THE INSPECTION.
4. PERFORM MAINTENANCE ON ALL EROSION AND SEDIMENTATION CONTROLS WHENEVER THERE IS FAILURE OF THE CONTROLS OR A BUILD-UP OF SEDIMENT AROUND THE CONTROLS. THE MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, REMOVAL OF SEDIMENT AND REPAIR OR REPLACEMENT OF CONTROLS DAMAGED FROM RUNOFF EVENTS, DURING CONSTRUCTION OR BY THIRD PARTY ACTS.
5. SILT FENCE: SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHOULD BE REMOVED ONCE ACCUMULATION REACHES ONE-HALF THE ABOVEGROUND HEIGHT OF THE BARRIER. REPAIR ALL UNDERCUTTING OF EROSION OF THE TOE ANCHOR WITH COMPACTED BACKFILL MATERIAL. ADHERE TO THE MANUFACTURER'S RECOMMENDATIONS FOR REPLACING SILT FENCE DUE TO WEATHERING. ANY PORTION OF THE SILT FENCE THAT IS UNDERMINED OR OVERTOPPED IS TO BE IMMEDIATELY REPAIRED. SEDIMENT REMOVED FROM SILT FENCE SHALL BE MIXED IN WITH OTHER WASTE SOIL ON THE CONSTRUCTION SITE AND PROPERLY DISPOSED OF.
6. ROCK CONSTRUCTION ENTRANCE: SHALL BE INSPECTED DAILY. MAINTAIN THICKNESS TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE PROJECT SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
7. FILTER BAG INLET PROTECTION: SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. FILTER BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED FILTER BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ONSITE FOR REPLACEMENT OF FILTER BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED FILTER BAGS ACCORDINGLY.
8. STONE AND CONCRETE BLOCK INLET PROTECTION: SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DISPOSE ACCUMULATED SEDIMENT AT AN APPROVED LOCATION.
9. PUMPED WATER FILTER BAG: SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED. FILTER BAGS SHALL BE REPLACED AND DISPOSED OF AT AN APPROVED OFF-SITE LOCATION WHEN THEY BECOME ½ FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
10. TREE PROTECTION FENCE. SHALL BE INSPECTED WEEKLY. DAMAGED TREE PROTECTION FENCE SHALL BE REPAIRED IMMEDIATELY WHEN ANY WEAR, SAGS, GAPS, RIPS, AND/OR TEARS ARE FOUND. WHEN TREE PROTECTION FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE AND/OR REMOVAL OF THE FENCE SHALL BE ROUGHENED, SEEDED, MULCHED AND CRIMPED.
11. SITE STABILIZATION REPAIR: SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. RE-SEED AND MULCH CUT AND FILL SLOPES DAMAGED BY CONCENTRATED FLOWS AND REPLACE TEMPORARY AND PERMANENT LININGS WITHIN 24 HOURS OF DISCOVERY. RE-GRADE AND ADD AGGREGATE AS REQUIRED TO STONE SURFACED ROADWAYS, BASE AREAS, SHOULDER SWALES AND GULLIES IF OTHER EROSION OR VEHICLE INDUCED RUTTING OCCURS.
12. CONCRETE WASHOUT FACILITY: SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
13. COMPOST FILTER SOCK: SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. SEDIMENT SHOULD BE REMOVED ONCE ACCUMULATION REACHES ONE HALF THE ABOVE GROUND HEIGHT OF THE BARRIER. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO THE MANUFACTURERS SPECIFICATIONS OR REPLACED. REPLACE BIODEGRADABLE SOCKS AFTER 6 MONTHS AND PHOTODEGRADABLE SOCKS AFTER 1 YEAR. UPON STABILIZATION, REMOVE STAKES AND SOCK. SOCK MAY BE LEFT IN PLACE WITH MESH CUT OPEN AND REMOVED WITH MULCH SPREAD AS SOIL SUPPLEMENT.

E&SCP CONSTRUCTION SEQUENCE

DURING THE DURATION OF CONSTRUCTION, FOLLOW PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES.

THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE SEQUENCE OF CONSTRUCTION. THE ENGINEER IS NOT LIABLE OR RESPONSIBLE FOR ANY DAMAGES THAT MAY BE INCURRED BY THE SEQUENCE LISTED.

ANY CHANGES TO THE CONSTRUCTION SEQUENCE ARE TO BE COORDINATED WITH THE PWSA INSPECTOR. THE CONTRACTOR SHALL NOT DEVIATE FROM PHASING OF THE CONSTRUCTION SEQUENCE UNLESS APPROVED BY PWSA.

COORDINATE WITH ALL ONGOING CONSTRUCTION IN THE PROJECT AREA (IF ANY) TO RESOLVE ANY ISSUES THAT WOULD BE IN CONFLICT WITH OTHER PROJECTS AND TRAFFIC CONTROLS.

PEDESTRIAN ACCESS SHALL BE SAFELY MAINTAINED AT ALL TIMES.

RESTRICT STREET PARKING IF NECESSARY DURING HOURS OF WORK.

VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.

IMPLEMENT MAINTENANCE AND PROTECTION OF TRAFFIC PLAN.

IN ADDITION TO THE E&SPC CONSTRUCTION SEQUENCE LISTED BELOW, REFER TO THIS PROJECT'S SEQUENCE OF CONSTRUCTION LOCATED ELSEWHERE IN THESE PLANS.

1. INSTALL TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS.
2. LAYOUT THE LIMITS OF THE PROPOSED WORK. ESTABLISH BENCHMARKS AND REFERENCE POINTS.
3. STAKE OUT THE LIMITS OF THE AREAS TO BE DISTURBED.
4. IF NEEDED, INSTALL TREE PROTECTION FENCE PER DIRECTION OF RESIDENT PROJECT REPRESENTATIVE AND IN ACCORDANCE WITH THE STANDARD DETAIL.
5. INSTALL INLET PROTECTION AT ALL EXISTING CATCH BASINS AT THE LOCATION SHOWN ON THE E&SPC PLAN AND IN ACCORDANCE WITH THE STANDARD DETAILS. INSTALL SILT FENCE AND COMPOST FILTER SOCK AT THE LOCATIONS SHOWN ON THE E&SPC PLAN AND IN ACCORDANCE WITH THE STANDARD DETAILS.
6. BEGIN CLEARING AND GRUBBING THE PROJECT SITE. CLEARING AND GRUBBING SHOULD OCCUR ONLY IN AREAS WHERE WORK IS TO IMMEDIATELY COMMENCE. ANY AREA THAT IS DISTURBED, BUT NO WORK COMMENCES ON WITHIN FIVE DAYS SHALL BE IMMEDIATELY SEEDED AND MULCHED FOR TEMPORARY STABILIZATION.
7. STRIP TOPSOIL AND STOCKPILE AT THE LOCATION SHOWN ON THE E&SPC PLAN AND IN ACCORDANCE WITH THE STANDARD DETAIL. IMMEDIATELY SEED THE STOCKPILE WITH A TEMPORARY SEED MIXTURE.
8. BEGIN TRENCHING OPERATIONS FOR INSTALLATION OF SEWERS. USE TRENCH PLUGS IN TRENCHES AS REQUIRED AND MINIMIZE THE AMOUNT OF TRENCH LEFT OPEN. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD BE NO GREATER THAN THE TOTAL LENGTH OF PIPELINE THAT CAN BE PLACED IN THE TRENCH AND BACKFILLED IN ONE WORKING DAY. NO MORE THAN FIFTY (50) LINEAR FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE INSTALLATION CEASES AT THE END OF THE WORKDAY
9. INSTALL CATCH BASINS, MANHOLES AND PIPE THROUGHOUT THE PROJECT SITE AS TRENCHES ARE EXCAVATED.
10. INSTALL INLET PROTECTION AT ALL NEW CATCH BASINS.
11. ONCE TRENCHING HAS BEEN COMPLETED AND BACKFILLED PROPERLY, BEGIN TO INSTALL PAVEMENT SUBBASE.
12. SPREAD TOPSOIL ON ALL AREAS TO BE SEEDED. DISPOSE OF EXCESS TOPSOIL AT AN APPROVED LOCATION.
13. INSTALL BASE COURSE ASPHALT PAVING. PAVEMENT RESTORATION SHALL BE COMPLETED SO THAT POSITIVE DRAINAGE BETWEEN PROPOSED STORM DRAIN STRUCTURES IS MAINTAINED AT ALL LOCATIONS TO ENSURE NO PONDING WATER OCCURS ALONG THE ROADWAY PROFILE.
14. INSTALL FINAL PAVING AND CURBS.
15. BEGIN FINAL GRADING THE PROJECT SITE.
16. ONCE FINAL GRADING OPERATIONS HAVE BEEN COMPLETED, SEED AND LANDSCAPE THE GRASS AREAS WITHIN THE PROJECT SITE.
17. ONCE THE PROJECT SITE HAS ACHIEVED A UNIFORM 70% PERENNIAL VEGETATIVE COVER, FLUSH THE STORM SEWER CONVEYANCE SYSTEM TO REMOVE ANY ACCUMULATED SEDIMENT.
18. REMOVE ANY ACCUMULATED SEDIMENT FROM ALL TEMPORARY EROSION CONTROL DEVICES AND DISPOSE OF AT AN APPROVED LOCATION.
19. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES. AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY EROSION CONTROL DEVICES MUST BE STABILIZED IMMEDIATELY.

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E&SC PLAN NOTES 2

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PERMITS	04/24/26	CJ
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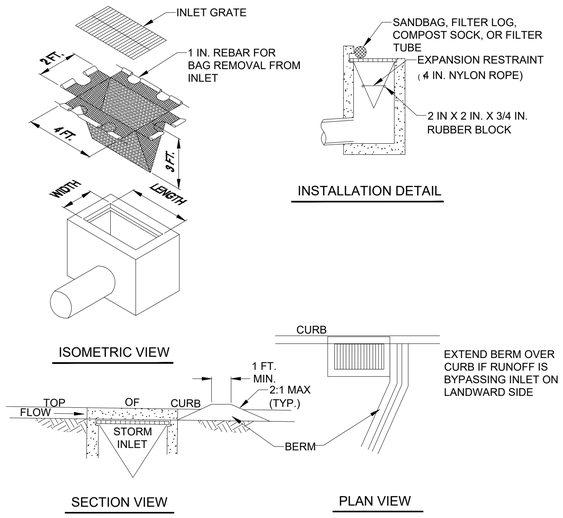


ISOMETRIC VIEW

INSTALLATION DETAIL

SECTION VIEW

PLAN VIEW

NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

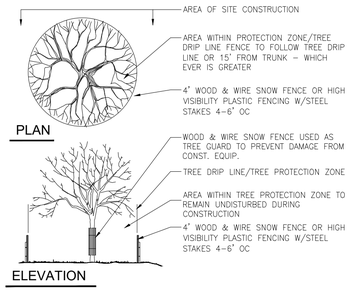
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

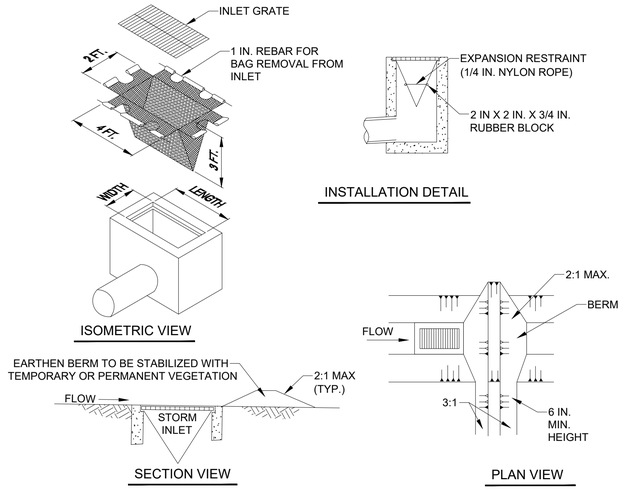
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-15
FILTER BAG INLET PROTECTION - TYPE C INLET
NOT TO SCALE



TREE PROTECTION
DURING SITE CONSTRUCTION
NOT TO SCALE



ISOMETRIC VIEW

INSTALLATION DETAIL

SECTION VIEW

PLAN VIEW

NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

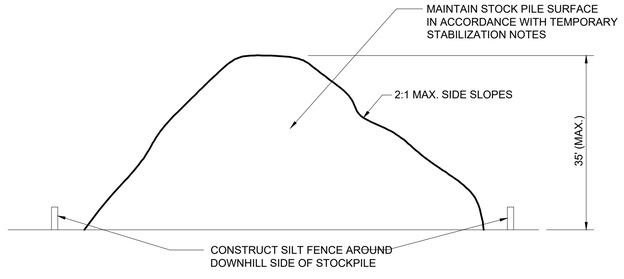
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

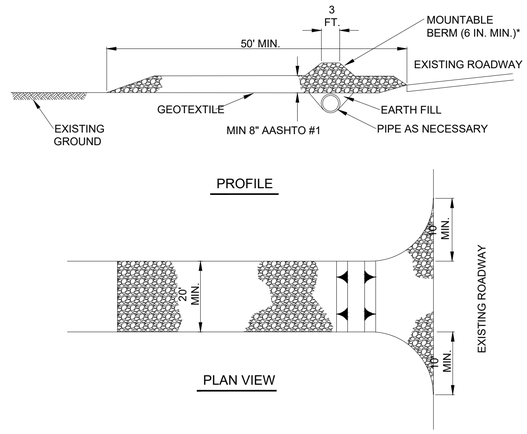
INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET
NOT TO SCALE



TEMPORARY SOIL STOCKPILE DETAIL
NOT TO SCALE



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE

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JASON J. MCBRIDE
ENGINEER
PE055552

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90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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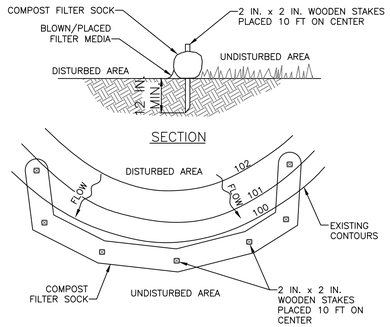


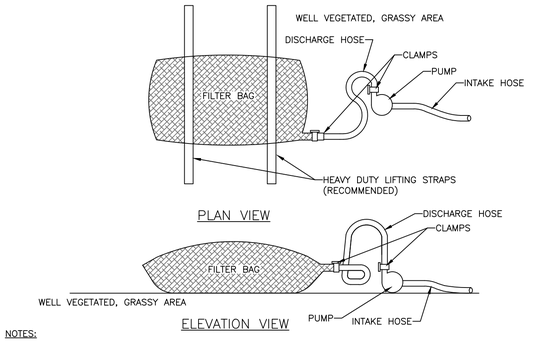
PLAN VIEW

NOTES:

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

NOT TO SCALE



NOTES:

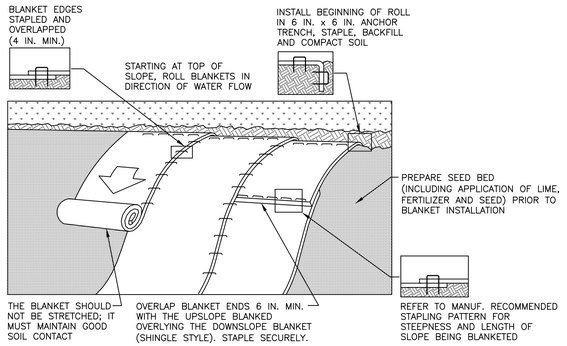
1. LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
4. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
5. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
6. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
7. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG

NOT TO SCALE



NOTES:

1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
2. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
5. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION

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OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

E&SC PLAN DETAILS 2

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50 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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M107-11-36
RIM = 1127.49
12" RCP W INV=1124.19
12" CLAY LINED S INV=1121.89
12" CLAY LINED N INV=1121.89

M107-11-34
RIM = 1128.40
12" CLAY LINED N INV=1121.00
8" CLAY LINED S INV=1120.90
12" CLAY LINED E INV=1120.80

CB-10179
RIM = 1126.82
12" DEBRIS DIVERTER W INV=1126.82

CB-10135
RIM = 1099.68
12" E INV=1099.68

M107-11-32
RIM = 1099.69

M107-11-33
RIM = 1100.53
12" CLAY LINED NW INV=1095.33
12" PVC E INV=1095.93
12" CLAY LINED NW INV=1095.33
18" CLAY N INV=1092.53
12" CLAY S INV=1092.73

M107-11-31
RIM = 1089.10

M107-11-34A
RIM = 1102.70
12" CLAY LINED N INV=1096.30
12" CLAY LINED W INV=1098.30

M107-11-35
RIM = 1126.99
8" CLAY LINED N INV=1123.99

CB-10187
RIM = 1124.24
12" DEBRIS DIVERTER E INV=1124.24

M107-11-30
RIM = 1074.58
18" LINED W INV=1069.28
12" CLAY N INV=1070.38
18" RCP LINED E INV=1069.28

CB-20091
RIM = 1073.24
18" RCP NE INV=1069.34

M107-11-39
RIM = 1110.13
12" CLAY LINED N INV=1106.13
18" RCP W INV=1106.53
12" PVC DW INV=1106.63

M107-11-40
RIM = 1111.34
12" PVC NE INV=1107.84
12" PVC S INV=1107.84

CB-11350
RIM = 1064.28
18" HDPE N INV=1059.38
12" CLAY SE INV=1057.18

CB-11366
RIM = 1064.07
18" HDPE S INV=1059.37

M107-11-10
RIM = 1089.38
12" CLAY NW INV=1085.38
12" CLAY E INV=1082.68
12" CLAY NE INV=1082.68

CB-20078
RIM = 1091.81
12" CLAY E INV=1088.81

CB-20080
RIM = 1087.71
12" RCP S INV=1084.41
12" RCP NW INV=1083.81

M107-11-11
RIM = 1103.04
12" CLAY STORM NE INV=1096.24
12" CLAY STORM SE INV=1096.24
12" CLAY W INV=1089.44
12" CLAY E INV=1089.44

CB-20068
RIM = 1102.27
12" CLAY NW INV=1099.67
12" CLAY E INV=1099.67

M107-11-9
RIM = 1077.38
12" PVC N INV=1073.38
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12" CLAY S INV=1073.38

M107-11-8
RIM = 1073.09
18" RCP SE INV=1067.59
18" RCP SW INV=1068.09
18" RCP NW INV=1067.59

M107-11-7
RIM = 1063.66
18" RCP SE INV=1059.76
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CB-20100
RIM = 1059.43
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M107-11-25
RIM = 1047.78
12" CAST IRON N INV=1043.78
24" CLAY SE INV=1042.88
18" CLAY NW INV=1042.88
18" CLAY W INV=1043.78

CB-20199
RIM = 1042.47
12" CLAY E INV=1040.67

M107-11-19
RIM = 1066.50
10" CLAY E INV=1060.60

CB-20104
RIM = 1066.30
12" PVC S INV=1064.00
6" HDPE N INV=1064.00

CB-20069
RIM = 1103.23
12" RCP SW INV=1099.73

CB-20064
RIM = 1103.33
12" CLAY W INV=11083

ARLINGTON STREET
CONCRETE - ROW 49'

ROSTRAVER STREET
CONCRETE - ROW 33'

BOSTON AVENUE
- ASPHALT - ROW 40'

GRAND BOULEVARD
ASPHALT - ROW 50'

SHRADER AVENUE
ASPHALT - ROW 40'

MEADOW AVENUE
ASPHALT - ROW 40'

PID: 20-02-15-0-015 SUCHKO ENTERPRISES LLC 1425 ARLINGTON DRIVE MONESSEN PA, 15062

PID: 20-02-15-0-020 FIGUERA PROPERTIES LLC. 1417 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-016 GLUSCIC, GERARD 1431 ARLINGTON DRIVE MONESSEN PA, 15062

PID: 20-02-15-0-017 GEORGE, MICHAEL 1437 ARLINGTON DRIVE MONESSEN PA, 15062

PID: 20-02-15-0-021 HASSENPFEIT, AUDREY 1427 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-064 WOODS, JAMES & ELIZABETH 1416 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-065 CONNOR, JOHN 1420 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-022 BAKER, JONATHAN 1435 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-067 COOPER CARL, & AMY 1426 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-066 ESCUDERO, ALICE & ERNESTO 1425 GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-15-0-023 BAUMAN, LEIGH 1439 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-068 BRIGHT, LESLIE 1503 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-15-0-070 PIASECKI, RONALD 1438 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-071 POLI, MICAEL & ADRIENNE 1440 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-316 BROWN, WALLACE & CAROL 1507 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-15-0-314 DB RENTALS LLC. 1442 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-072 TURPACK, STEVEN 1515 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-15-0-074 BIENECK, MARILY & RONALD 1496 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-073 EGOS BONNIE 1521 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-15-0-323 KAMETZ, DEARE 1501 GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-15-0-075 JESUS, DANIEL 1500 ROSTRAVER ST. MONESSEN PA, 15062

PID: 20-02-15-0-108 MONESSEN CITY GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-15-0-076 HUNCHUCH, LAUREN 1535 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-15-0-109 KAMETZ, DEARE 1501 GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-15-0-113 TOGNI, MICHAEL 1530 BOSTON AVE. MONESSEN PA, 15062

PID: 20-02-11-0-257 FELIX, KEVIN 1512 MARION AVE. MONESSEN PA, 15062

PID: 20-02-15-0-046 ESTABROOK 1414 GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-11-0-258 BENECCIO, CARMEN & SHIRLEY 1514 MARION AVE. MONESSEN PA, 15062

PID: 20-02-11-0-259 FERTAL, JUSTIN & SUNDERLIN 1520 MARION AVE. MONESSEN PA, 15062

PID: 20-02-11-0-260 MCQUEEN, BRIAN & LINDA 1524 MARION AVE. MONESSEN PA, 15062

PID: 20-02-11-0-261 OSBORNE, CODY & KELSEY 1530 MARION AVE. MONESSEN PA, 15062

PID: 20-02-15-0-047 TROZZO, DAVID 1426 GRAND BLVD. MONESSEN PA, 15062

PID: 20-02-15-0-049 WUKOVICH, CYNTHIA 1519 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-050 WUKOVICH, CYNTHIA 1519 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-051 WUKOVICH, CYNTHIA 1519 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-052 HENRY, RALPH & LOIS 1523 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-053 HESS, WILLIAM & SHARON 1527 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-054 WINTERS, BRIANA & KINIK 1533 SHRADER AVE. MONESSEN PA, 15062

PID: 20-02-15-0-048 POPROSKY, MARGARET 1440 MEADOW AVE. MONESSEN PA, 15062

PID: 20-02-15-0-057 BRITTNER, ZACHARY 1518 MEADOW AVE. MONESSEN PA, 15062

PID: 20-02-15-0-092 RITCHEY, KOREY & SHAYE 1500 GRAND BLVD. MONESSEN PA, 15062

MATCHLINE - SEE SHEET 52

N

HORIZONTAL SCALE IN FEET
30 15 0 30 60

LOCATION MAP
NO SCALE

RESTORATION LEGEND

- HMA SURFACE
- CONCRETE SURFACE
- SEED MIX AREA
- SLOPE SEED MIX AREA
- CURB REPLACEMENT
- LIMITS OF DISTURBANCE/ PROJECT LIMITS

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THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
RESTORATION AND PCSM PLAN 1

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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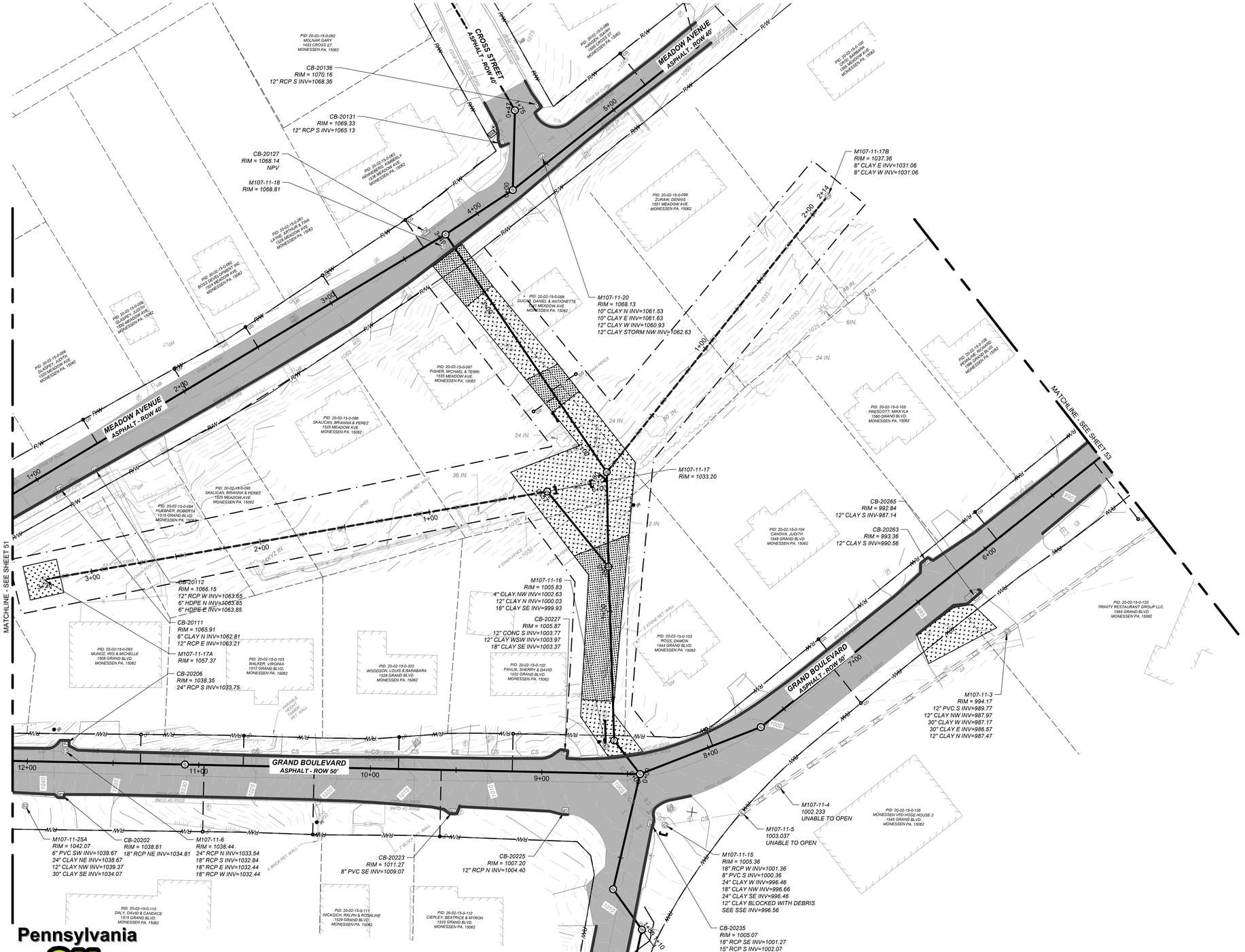

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HORIZONTAL SCALE IN FEET

30 15 0 30 60

LOCATION MAP
NO SCALE

RESTORATION LEGEND

- HMA SURFACE
- CONCRETE SURFACE
- SEED MIX AREA
- SLOPE SEED MIX AREA
- CURB REPLACEMENT
- LIMITS OF DISTURBANCE/ PROJECT LIMITS

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RESTORATION AND PCSM PLAN 2

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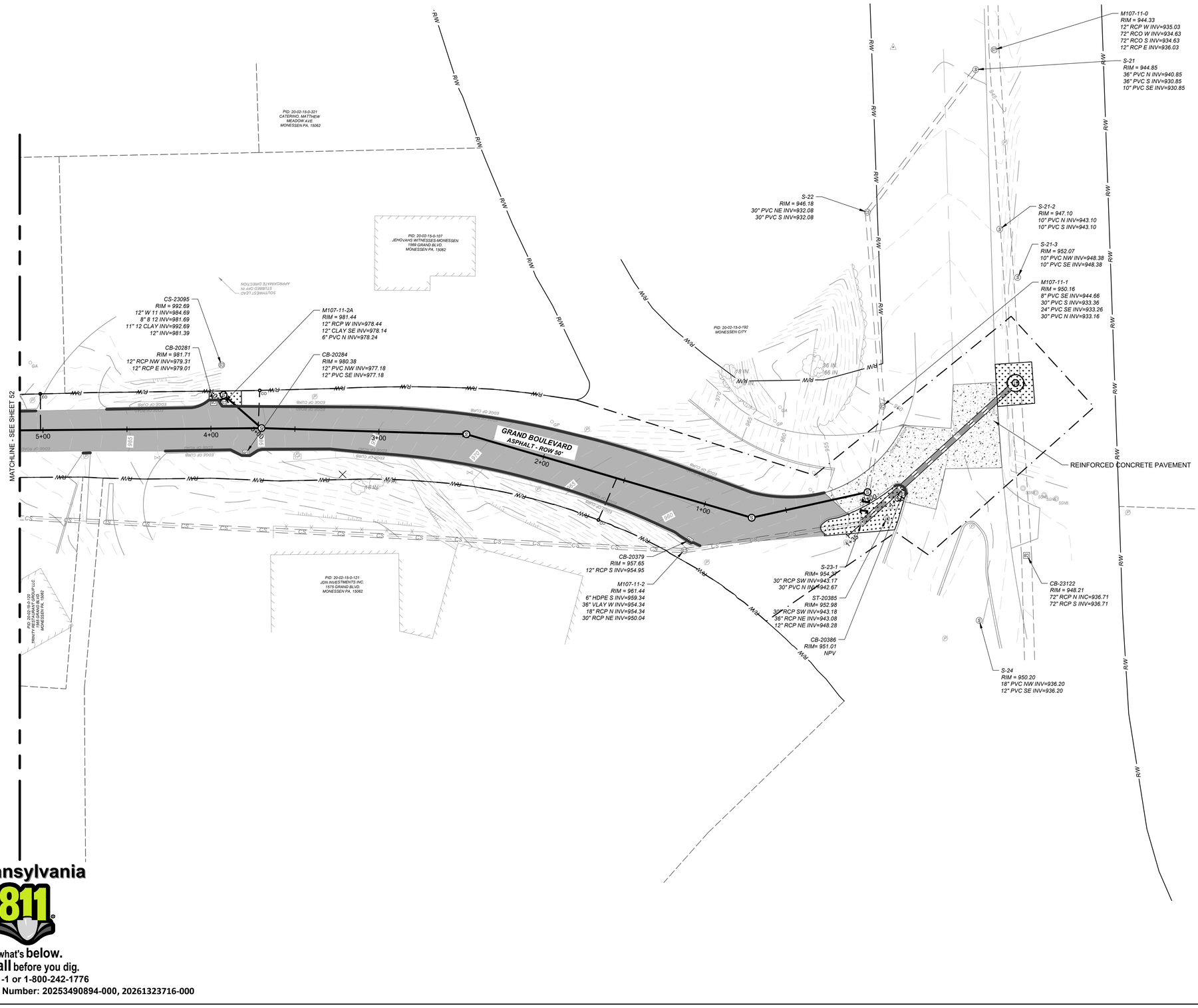

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HORIZONTAL SCALE IN FEET

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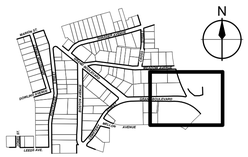

LOCATION MAP
NO SCALE

RESTORATION LEGEND

- HMA SURFACE
- CONCRETE SURFACE
- SEED MIX AREA
- SLOPE SEED MIX AREA
- CURB REPLACEMENT
- LIMITS OF DISTURBANCE/ PROJECT LIMITS

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RESTORATION AND PCSM PLAN 3

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REGISTERED PROFESSIONAL
JASON J MCBRIDE
ENGINEER
PE059552
PENNSYLVANIA

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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LAWN RESTORATION SEEDING MIX NOTES

1. SEEDING TREATMENT PER PENNDOT DESIGN MANUAL 2, CHAPTER 13 AND PUB. 408/2020, SECTION 804: PERMANENT SEED MIXTURE, FORMULA B - IN LAWN AREAS.
2. FORMULA B - 44 POUNDS PER 1000 SQUARE YARDS. SEEDING DATES MARCH 15 TO JUNE 1 AND AUGUST 1 TO OCTOBER 15.
3. TEMPORARY COVER CROP- FORMULA E ANNUAL RYE GRASS
4. FORMULA E - 10 POUNDS PER 1000 SQUARE YARDS.
5. STEEP SLOPE - 27 POUNDS PER 1000 SQUARE YARDS
6. SOIL SUPPLEMENTS PER PUBLICATION 408/2020, SECTION 804, COMMERCIAL FERTILIZER (10-20-20), 140 POUNDS PER 1000 SQUARE YARDS. AGRICULTURAL LIMESTONE, 50 POUNDS PER 1000 SQUARE YARDS
7. MULCHING PER PUBLICATION 408/2020, SECTION 805, STRAW 1200 POUNDS/1000 SQUARE YARDS ANCHOR MULCH WITH SPECIFIED BINDERS.
8. ALL TURF GRASS AREAS TO RECEIVE TOPSOIL PER PUB, 408, SECTION 802

SEEDING NOTES:

1. SEEDING TREATMENT PER PENNDOT DESIGN MANUAL 2, CHAPTER 13 AND PUB 408/2020 SECTION 804:
   - PERMANENT SEED MIXTURE:
   - FORMULA B - IN LAWN AREAS
   - FORMULA L - ON SLOPES 3:1 OR STEEPER
   - FORMULA D - IN ALL OTHER AREAS
2. SEEDING RATES PRE PUB. 408/2016, SECTION 804:
   - FORMULA B - 44.0 POUNDS PER 1000 SQUARE YARDS
   - FORMULA L - 48.0 POUNDS PER 1000 SQUARE YARDS
   - FORMULA D - 50.0 POUNDS PER 1000 SQUARE YARDS
   - FORMULA E - 10.O POUNDS PER 1000 SQUARE YARDS
   - SEE PENNDOT PUBLICATION 408/2016 SECTION 804/805 FOR SEEDING MIXTURE FORMULAS AND PROCEDURES.
3. SOIL SUPPLEMENTS PER PUB 408/2016, SECTION 804:
   - COMMERCIAL FERTILIZER (10-20-20) -140 LBS PER 1000 SQUARE YARDS
   - UREAFORM FERTILIZER (38-0-0) - 50 LBS PER 1000 SQUARE YARDS
   - AGRICULTURAL LIMESTONE - 800 LBS PER 1000 SQUARE YARDS
4. MULCHING PER PUB 408, SECTION 802.
   - STRAW - 1200 LBS PER 1000 SQUARE YARDS
   - ANCHOR MULCH WITH SPECIFIED MULCH BINDERS APPLIED AT THE FOLLOWING RATES:
   - RECYCLED WOOD FIBER - 160 LBS PER 1000 SQUARE YARDS
   - WOOD FIBER - 160 LBS PER 1000 SQUARE YARDS
   - NONASPHALTIC EMULSION - AT MANUFACTURE'S RECOMMENDED RATE
   - POLYVINAL ACETATE - AT MANUFACTURER'S RECOMMENDED RATE
   - RECYCLED CELLULOSE FIBER/WOOD FIBER MIXTURE - 160 LBS PER 1000 SQUARE YARDS
5. TOPSOIL PER PUB. 408, SECTION 802.
6. STABILIZE IMMEDIATELY ANY DISTURBED AREAS ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THEN 72 HOURS. DURING NON-GERMINATING PERIODS, APPLY MULCH AT THE RECOMMENDED RATES SPECIFIED IN SECTION 802 OF PUB408. STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS ANY DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE YEAR. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS ANY DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURBED WITHIN ONE YEAR.
7. CHECK MULCH UNTIL SEED HAS TAKEN. PROMPTLY REAPPLY MULCH MATERIAL WHICH BECOMES DISLODGED OR LOST DUE TO WIND, RAIN, FIRE, OR OTHER CAUSES.

SEED MIXTURES FOR REVEGETATION

Temporary Seed Mixture

Species	% of Mixture	% of Purity	% Germination	% Weed Seed	Seeding Rate LB/1000 SY	Seeding Dates
Formula E:						
Annual Ryegrass	100	95	90	0.1	10	March 15 to October 15

Permanent Seed Mixture

Species	% of Mixture	% of Purity	% Germination	% Weed Seed	Seeding Rate LB/1000 SY	Seeding Dates
Formula B:						
Perennial Ryegrass	20	97	90	0.1	8.5	March 15 to June 1 and August 1 to October 15
Creeping Red Fescue or Chewings Fescue	30	97	85	0.1	12.5	
Kentucky Blue Grass	50	97	80	0.15	21	

FOR STEEP SLOPES USE ERNMX-181 NATIVE STEEP SLOPE MIX OR A MIX INCLUDING 45% BIRDSFOOT TREFOIL AND 55% ANNUAL RYEGRASS

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Dial 8-1-1 or 1-800-242-1776
Project Serial Number: 20253490894-000, 20261323716-000

PRELIMINARY
NOT FOR CONSTRUCTION

REV#	DATE	DESCRIPTION	BY

MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

PCSM - SEEDING MIX

WADE TRIM
Wade Trim, Inc.
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444 Liberty Avenue, Suite 300
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60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

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SHEET 54 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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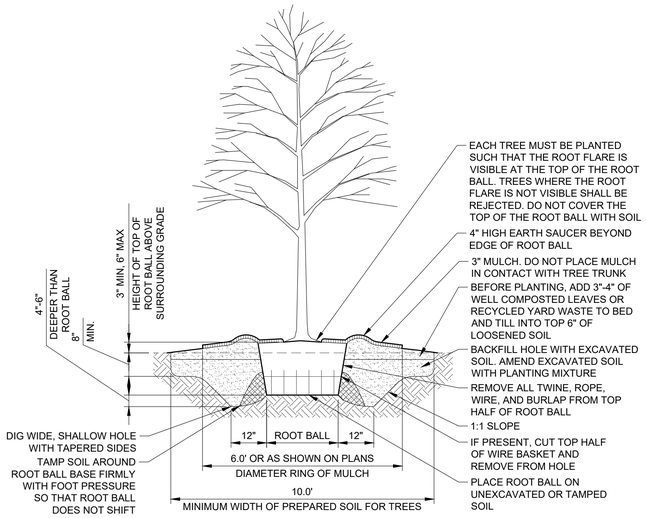
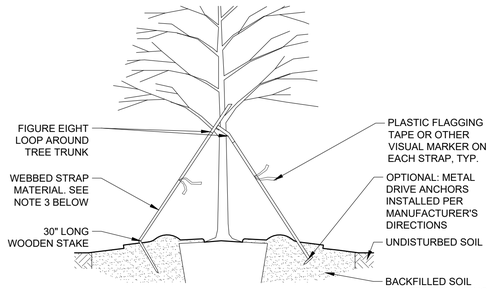


NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OR THE CONTAINER.
2. AFTER DIGGING HOLE, FILL WITH WATER TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. IF HOLE DOES NOT PERC, DO NOT PLANT TREE. NOTIFY LANDSCAPE ARCHITECT FOR DIRECTION.
3. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL IMMEDIATELY AFTER PLANTING.
4. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
5. PURCHASE TREE WITH ONE CENTRAL LEADER. DO NOT PRUNE TREE AT PLANTING EXCEPT AS DIRECTED BY LANDSCAPE ARCHITECT.
6. SET TREE PLUMB WITH VERTICAL TRUNK.
7. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT SEE DETAIL ON SHEET X.
8. WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

TREE PLANTING DETAIL

NOT TO SCALE

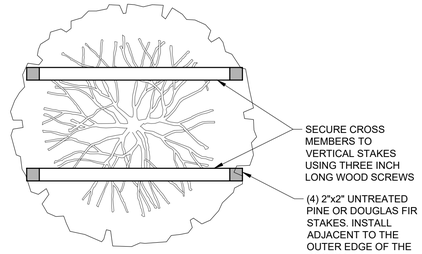


NOTES:

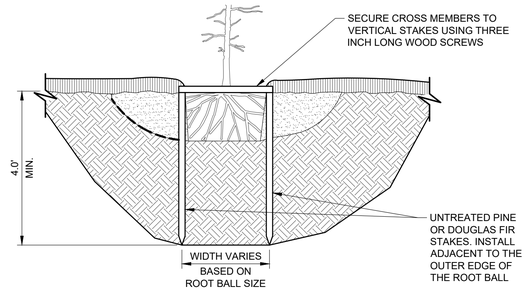
1. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.
2. TIGHTEN WEBBED STRAP MATERIAL ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. INSTALL THREE STRAPS PER TREE, SPACED EVENLY AROUND THE TRUNK. INSTALL AS LOW ON TRUNK AS POSSIBLE.
3. WEBBED STRAP TO BE ARBORTIE OR APPROVED EQUAL
4. TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.
   - 4.1. TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED . REJECT RATHER THAN STAKE.
   - 4.2. TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
   - 4.3. PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS ARE THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
   - 4.4. ROOT BALLS PLACED ON VERY SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
   - 4.5. ROOT BALLS WITH VERY SANDY SOIL OR VERY WET SOIL. STAKING ADVISABLE.
   - 4.6. TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

TREE STAKING DETAIL

NOT TO SCALE



PLAN



SECTION

TREE STAKING DETAIL

NOT TO SCALE

LANDSCAPE NOTES

1. ALL PLANTS TO BE INSTALLED IN ACCORDANCE WITH AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS.
2. CONTRACTOR SHALL PROVIDE A PLANTING MIXTURE MEETING THE FOLLOWING REQUIREMENTS. IF THE ENGINEER HAS ANY CONCERNS WITH THE QUALITY OF THE PLANTING MIXTURE, THE ENGINEER SHALL BE ALLOWED TWO WEEKS TO OBTAIN SOIL TEST TO DETERMINE SPECIFICATION COMPLIANCE. NO PLANT MATERIAL SHALL BE PLANTED PRIOR TO ENGINEER APPROVAL OF PLANTING MIXTURE. ALL PLANT MATERIAL SHALL BE MAINTAINED BY THE CONTRACTOR IN A VIGOROUS GROWING CONDITION DURING THIS TIME AT NO ADDITIONAL COST.
3. SPACING OF PLANT MATERIALS SHALL BE AS SHOWN ON DRAWING OR ON PLANT LIST. THE ENGINEER SHALL REVIEW THE PLACEMENT OF PLANT MATERIAL PRIOR TO AND AFTER INSTALLATION, AND RESERVES THE RIGHT TO ADJUST LAYOUT TO ACCOMMODATE SITE CONDITIONS AND DESIGN INTENT.
4. ALL PLANT MATERIALS SHALL CONFORM TO PLANT SCHEDULES. SIZES SHALL BE THE MINIMUM STATED ON THE PLANT LIST OR LARGER. ALL MEASUREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "A.A.N. STANDARDS FOR NURSERY STOCK."
5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND REVIEWED BY THE ENGINEER.
6. FINAL PLANT LOCATIONS SHALL BE MARKED BY CONTRACTOR THREE WORKING DAYS PRIOR TO PLANTING FOR ENGINEER REVIEW.
7. ALL PLANTED PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANTS ORIGINAL GRADE BEFORE DIGGING.
8. PLANT MATERIAL, ESPECIALLY EVERGREENS, TO BE PLANTED HIGHER THAN NORMAL WHEN HEAVY SOIL CONDITIONS (CLAY, ETC.) PREVAIL.
9. IF FOR ANY REASON ANY BALLED AND BURLAPED PLANT MATERIALS NEED TO BE STORED ON SITE LONGER THAN A 24-HOUR PERIOD, THEIR ROOT BALLS SHALL BE PROTECTED. ALL PLANTS SHALL BE THOROUGHLY WATERED EACH DAY THEY ARE STORED ON SITE. PLANTS MAY BE STORED ON SITE FOR A MAXIMUM OF TWO (2) WEEKS, OR 14 DAYS. ANY PLANTS ALLOWED TO DRY OUT AS DETERMINED BY THE ENGINEER WILL BE REJECTED.
10. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL WRAPPING MATERIALS MADE OF SYNTHETIC OR PLASTICS SHALL BE COMPLETELY REMOVED AT TIME OF PLANTING.
11. THE CONTRACTOR SHALL FILL PLANT PIT WITH PREPARED PLANT MIX TO ½ DEPTH OF ROOT BALL OR ROOT MASS, PACK FIRMLY, PUDDLE WITH WATER; THEN FOR BALLED AND BURLAPED MATERIAL, THE BURLAP AND ALL LACING (INCLUDING WIRE BASKET IF NECESSARY) SHALL BE REMOVED FROM THE UPPER 1/3 OF ROOTBALL, THEN FINISH BACKFILLING ADDING SOLID FERTILIZER TO THE PLANT MIX, PACK FIRMLY AND WATER. A SAUCER SHALL BE PLACED AROUND EVERY PLANT AND SHALL BE APPROVED PRIOR TO PLACEMENT OF ANY MULCH.
12. ALL DISTURBED LAWN AREAS SHALL BE RESTORED WITH 4-INCHES OF TOPSOIL, SPREAD, FINE GRADED, AND SEEDED/SODDED AS SPECIFIED. PRIOR TO INSTALLATION OF TOPSOIL, LOOSEN SUBGRADE TO A DEPTH OF 2 INCHES. THIS WORK SHALL BE INCIDENTAL TO THE PROJECT.
13. TOPSOIL SHALL CONSIST OF FRIABLE, SHREDDED, AND SCREENED SOIL REASONABLY FREE OF GRASS, ROOTS, WEEDS, STICKS, STONES OR OTHER FOREIGN MATERIALS. THE TOPSOIL MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. SOIL COMPOSITION SHOULD CONTAIN AN ORGANIC CONTENT OF 2 TO 6 PERCENT AND BE CLASSIFIED AS A LOAM OR SANDY LOAM AS SPECIFIED IN THE "GUIDE FOR U.S.D.A. SOIL TEXTURAL CLASSIFICATION'.
14. ALL TREES AND SHRUBS ARE TO BE FERTILIZED ONCE ROOTS SYSTEM IS ESTABLISHED WITH AGRIFORM 21-GRAM FERTILIZER TABLETS AT RATES RECOMMENDED BY MANUFACTURER.
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
16. AT PLANTING TIME, ALL DEAD AND BROKEN BRANCHES SHALL BE PRUNED ON ALL DECIDUOUS TREES.
17. CONTRACTOR SHALL APPLY ENGINEER APPROVED PRE-EMERGENT HERBICIDE, "PREEN" OR EQUAL, TO SHRUB AND GROUND COVER PLANTING AREAS AT THE TIME OF PLANTING (IF SPRING PLANTED) OR THE FOLLOWING SPRING. CONTRACTOR SHALL ENSURE THE PLANT MATERIALS ARE RESISTANT TO THE HERBICIDES PROPERTIES. HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH SOUND HORTICULTURAL PRACTICES.
18. ALL TREES, SHRUBS AND PERENNIAL GROUND COVER SHALL RECEIVE A MINIMUM DEPTH OF THREE INCHES DOUBLE SHREDDED HARDWOOD BARK MULCH. WHERE PLANT BEDS MEET PAVEMENTS, LAWN, OR STEEL EDGING CUT THE GRADE TO ALLOW FOR MULCH AND THREE-INCH DROP FROM ADJOINING FINISH GRADE.
19. ALL PLANT BEDS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8-INCHES AND BACKFILLED WITH SPECIFIED PLANT MIX AS PER PLANTING BED DETAILS. BEDS SHALL BE EDGED WITH METAL EDGING AROUND PERIMETER. ALL EDGING SHALL BE 4" WIDE - 12 GAUGE STEEL, COLOR BLACK. CONTRACTOR SHALL LAYOUT EDGING FOR APPROVAL AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
20. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) FULL YEAR FOLLOWING PLANTING. ALL DISEASED, DAMAGED, OR DEAD MATERIAL SHOWN ON THE SITE PLAN SHALL BE REPLACED BY THE END OF THE FOLLOWING GROWING SEASON.
21. APPLICATIONS OF FERTILIZER BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHOROUS.

PLANTING MIXTURE NOTES

1. MIXTURE SHALL BE A MIXTURE OF 6 PARTS TOPSOIL, 4 PARTS MEDIUM-COARSE SAND, AND 1 PART COMPOST. ADD FERTILIZER AT THE QUANTITY AS RECOMMENDED BY THE MANUFACTURER. PLANTING MIXTURE SHALL BE FREE FROM, STICK, STONES, SOD CLODS, OR OTHER MATERIAL WHICH MIGHT LEAVE POCKETS AROUND THE ROOTS.

2. TOPSOIL
   - 2.1. TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY CLAY LOAM WITHOUT ADMIXTURE OF SUBSOIL. TOPSOIL IS TO BE FREE OF GLASS, STONES GREATER THAN ONE (1) INCH IN ANY DIMENSION, WEEDS, UNDESIRABLE GRASSES AND OTHER EXTRANEOUS MATERIALS. TOPSOIL SHALL HAVE THE FOLLOWING RANGE OF VALUES:
     - pH 5.0 TO 7.5
     - SOLUBLE SALTS 500 PPM MAX
     - ORGANIC CONTENT 5% TO 30%
     - SILT CONTENT 35% TO 50%
     - CLAY CONTENT 5% TO 10%
     - DELETERIOUS MAT'L* 5% MAX

     *ROCK, GRAVEL, STONE, STICKS, ROOTS, SOD, ETC.
   - 2.2. TOPSOIL IS TO BE FINAL SCREENED THRU A 5/8" MAXIMUM MESH SCREEN PRIOR TO DELIVERY TO THE PROJECT SITE. ENGINEER SHALL REVIEW SOURCE AND FINAL SCREEN RESULTS PRIOR TO RELEASE OF TOPSOIL. CONTRACTOR SHALL SUBMIT A CERTIFIED ANALYSIS OF THE TOPSOIL FROM EACH SOURCE TO THE ENGINEER. TOPSOIL SHALL BE PLACED IN 4-INCH MINIMUM THICKNESS THROUGHOUT.

3. SAND FOR PLANTING MIXTURE SHALL BE CLEAN, MEDIUM-COARSE, UNGRADED SAND CONFORMING TO ASTM C3 FOR FINE AGGREGATES.

4. COMPOST SHALL BE COMPOSTED PINE BARK FINES OR OTHER HIGH-LIGNIN BARK FROM SPRUCE, FIR, OR OTHER CONIFERS.

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JASON J. MCBRIDE ENGINEER PE085552

PRELIMINARY
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REV#	DATE	DESCRIPTION	BY

SEWAGE AUTHORITY DONORA MON VALLEY MONESSEN PA

WADE TRIM
Wade Trim, Inc.
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MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

PCSM - LANDSCAPE DETAILS

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO. MVS2026.02H

SHEET 55 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PROJECT MANAGER:
DESIGNED: CJ DRAWN: CJ CHECKED: JJM
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PATA 103

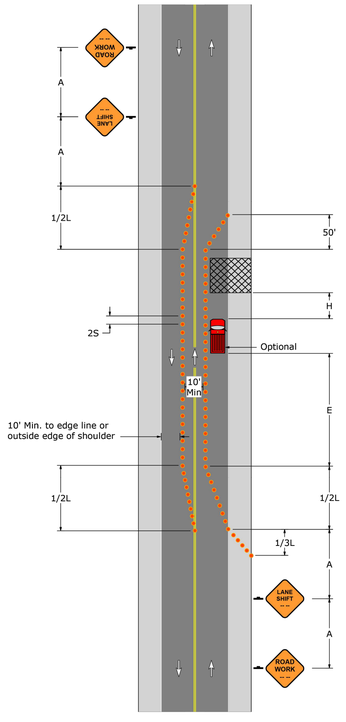
1. The RIGHT REVERSE CURVE sign shall only be used when lane shifts onto shoulder.

2. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs	
W20-1	W5-5

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space					
Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number Of Channelizing Devices						
Speed	Shifting Taper: 1/2L		Shoulder Taper: 1/3L		50' Per Lane Taper	
S (MPH)	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices	Length (Feet)	Minimum Number Of Devices
25	65	6	45	6	50	6
30	90	6	60	6	50	6
35	125	6	85	6	50	6
40	160	6	110	6	50	6
45	270	7	180	6	50	6
50	300	7	200	6	50	6
55	330	7	220	6	50	6



PATA 104

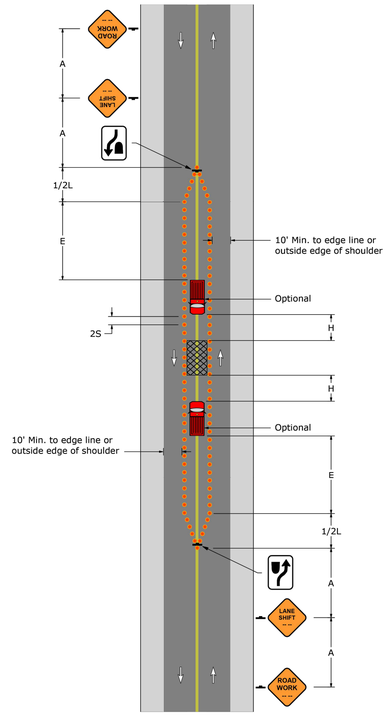
1. The RIGHT REVERSE CURVE sign shall only be used when lane shifts onto shoulder.

2. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs		
W20-1	W5-5	R4-7

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space					
Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number Of Channelizing Devices		
Speed	Shifting Taper: 1/2L	
S (MPH)	Length (Feet)	Minimum Number Of Devices
25	65	6
30	90	6
35	125	6
40	160	6
45	270	7
50	300	7
55	330	7



PATA 106

1. Place 50' taper in closed lane as shown. Continue taper angle and spacing as needed on the opposite side of the roadway center line while maintaining a 10' minimum lane width.

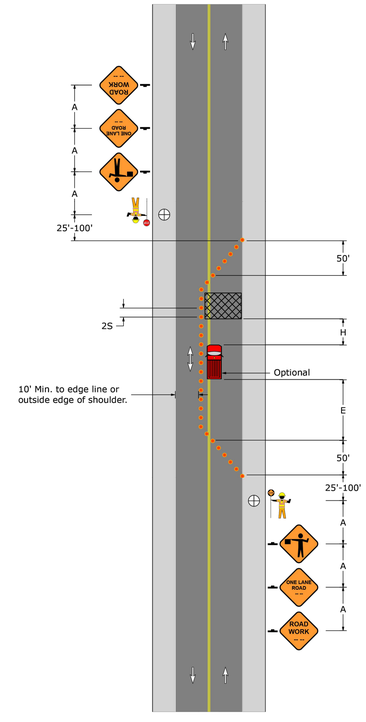
2. Flaggers shall be clearly visible to traffic for a minimum distance of E.

3. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs		
W20-1	W20-4	W20-7

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space					
Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number Of Channelizing Devices		
Speed	50' Per Lane Taper	
S (MPH)	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6



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PRELIMINARY
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BY	DESCRIPTION	DATE	REV#

SEWAGE AUTHORITY DONORA MON VALLEY MONESSEN PA

WADE TRIM
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MON VALLEY SEWAGE AUTHORITY
OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT
MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS 1

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL JASON J MCBRIDE ENGINEER 082855

JOB NO. MVS2026.02H

SHEET 56 OF 57

MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

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PATA 107

1. Flaggers shall be clearly visible to traffic for a minimum distance of E.

2. For operations of 15 minutes or less:

   a) The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.

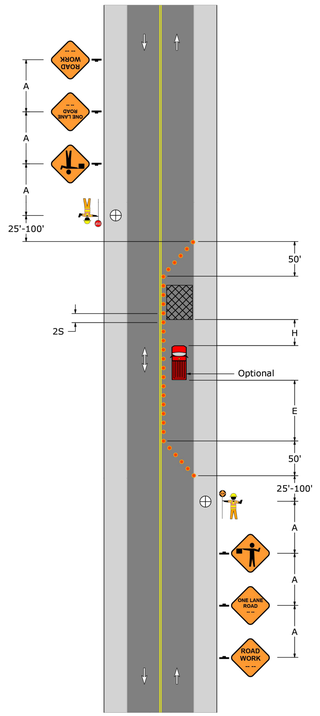
   b) All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.

3. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs		
W20-1	W20-4	W20-7

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space

Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250



PATA 109 (A Through L)

1. PATA 109 drawings show work spaces on roads that approach and depart T-intersections with through-roads. Single-flagger or multi-flagger intersection control is illustrated for intersections with three types of permanent control:

   a) One-Way Stop

   b) All-Way Stop

   c) Traffic Signal

2. Flaggers shall be clearly visible to traffic for a minimum distance of E.

3. For operations of 15 minutes or less:

   a) The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.

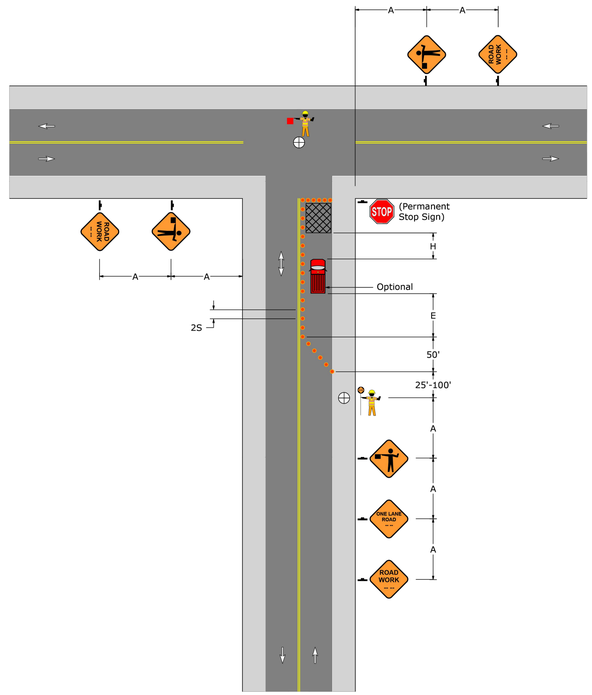
   b) All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.

4. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs		
W20-1	W20-4	W20-7

Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space

Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

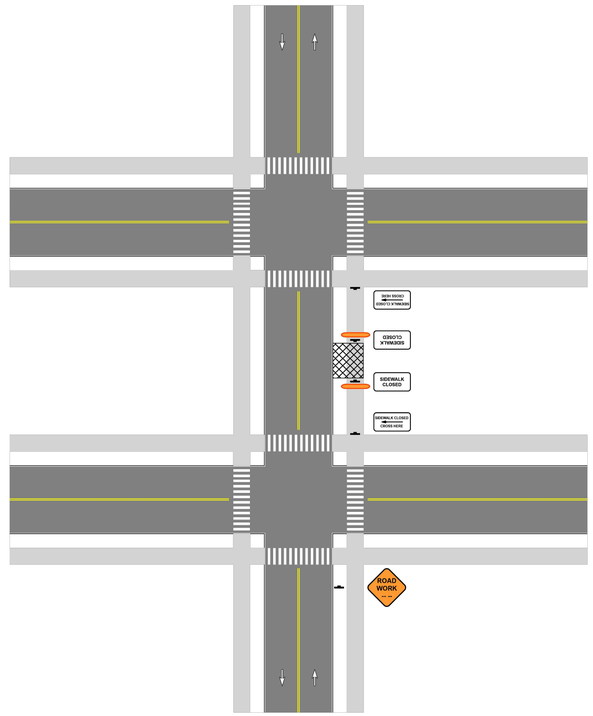


PATA 128

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

2. Approved pedestrian barricades or channelizing devices must be placed at each closure to protect pedestrians from construction activities, drop-offs, and vehicular traffic. The pedestrian barriers or channelizing devices must be continuous, stable and non-flexible and consist of a wall, fence, or enclosures specified in the MUTCD, Sections 6F.63, 6F.68 and 6F.71 with detectable, continuous bottom edge 6 inches maximum height above the walkway surface. Support members may not protrude into the useable sidewalk. Sidewalk barriers shall be detectable by blind pedestrians or those who have low vision. Plastic tape, movable cones, and print signs at a sidewalk excavation will not generally provide adequate notice or protection.

Signs		
W20-1	R9-9	R9-11a



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OF THE BOROUGH OF DONORA AND
THE CITY OF MONESSON, PENNSYLVANIA
MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS 2

ISSUED FOR:	DATE:	BY:
30% DESIGN	03/09/26	CJ
60% DESIGN	03/30/26	CJ
90% DESIGN	04/22/26	CJ
PERMITS	04/24/26	CJ
100% DESIGN	05/06/26	CJ
BID	05/07/26	CJ

JOB NO. MVS2026.02H

SHEET 57 OF 57

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MARION AVE / HILLTOP AREA SEWER SEPERATION PROJECT

PROJECT MANAGER:
DRAWN BY: CJ
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