



ENGINEERING ARCHITECTURE AND DESIGN SERVICES

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JOHNSTOWN REDEVELOPMENT AUTHORITY

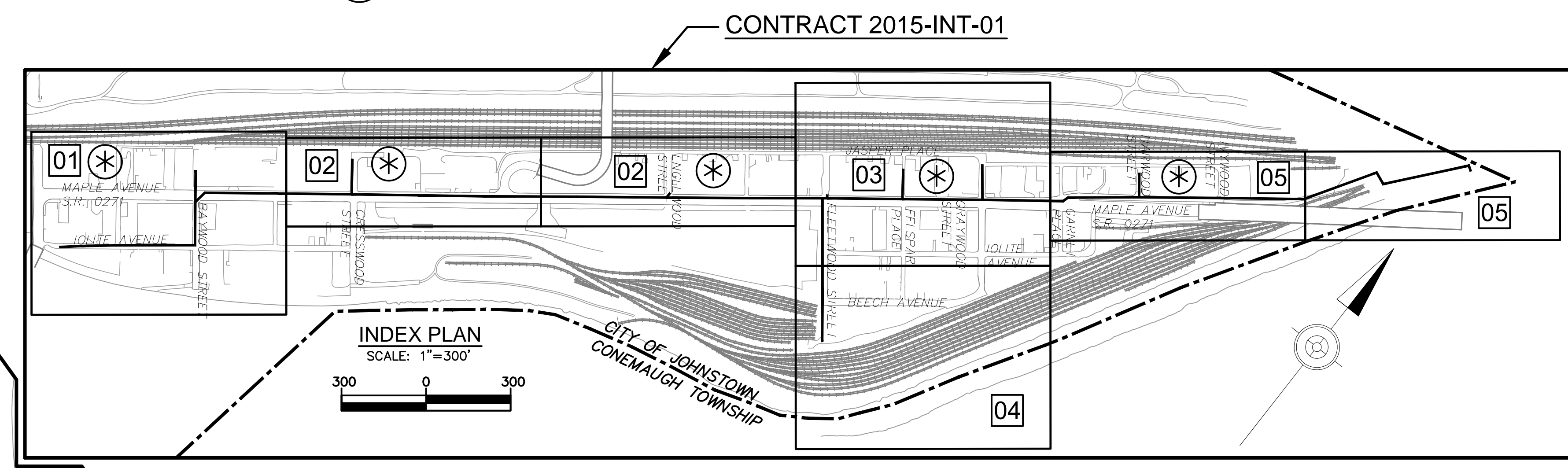
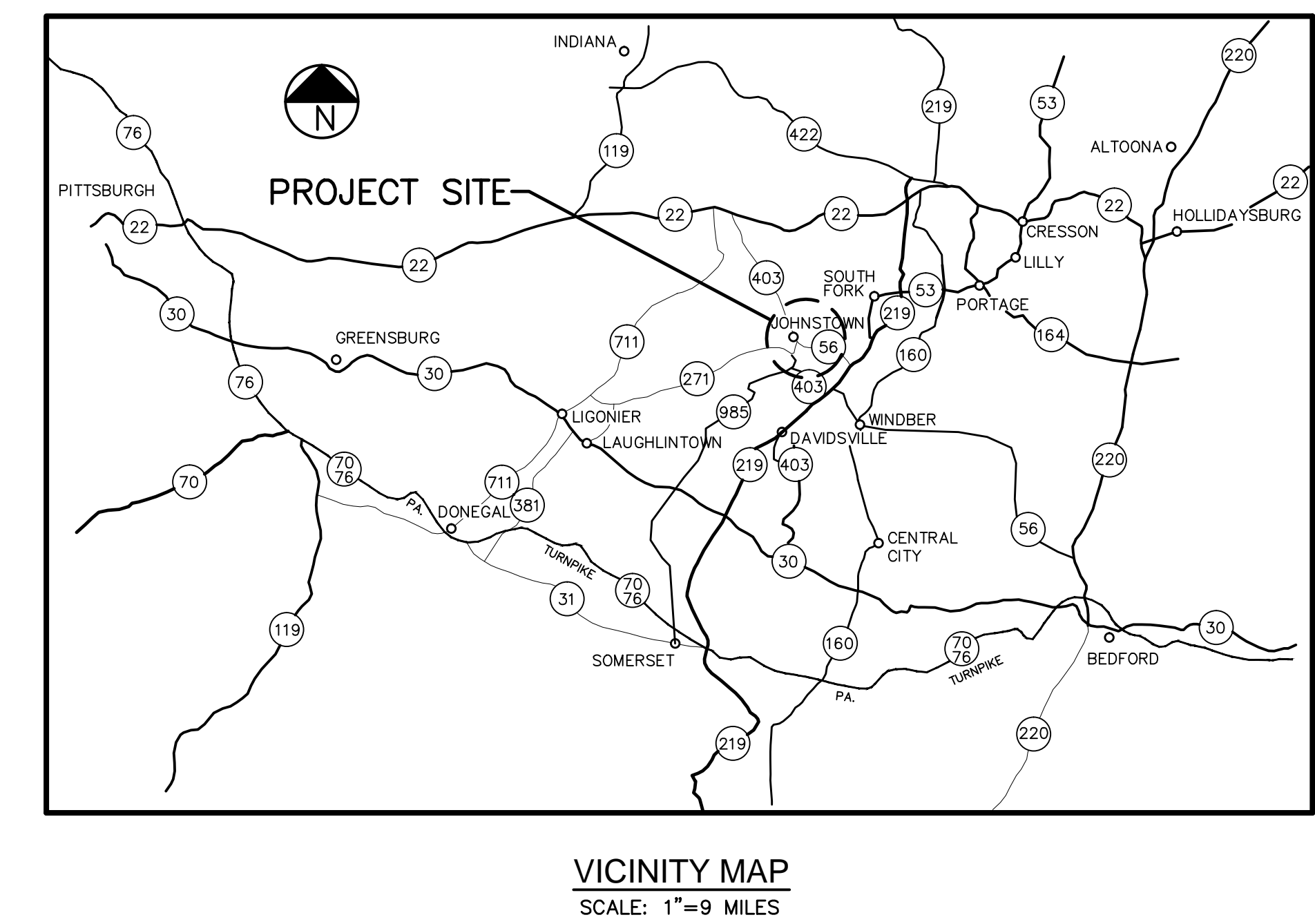
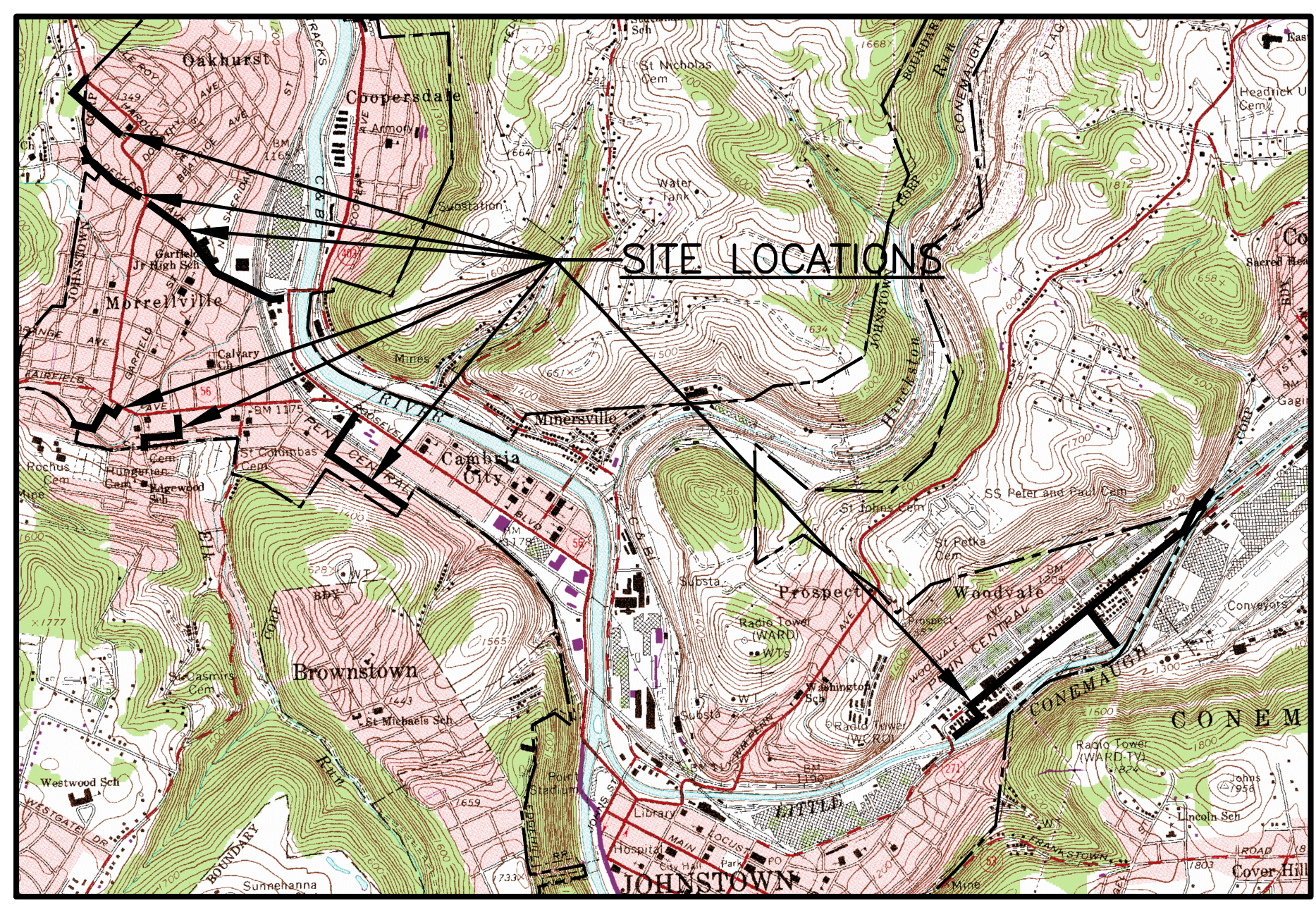
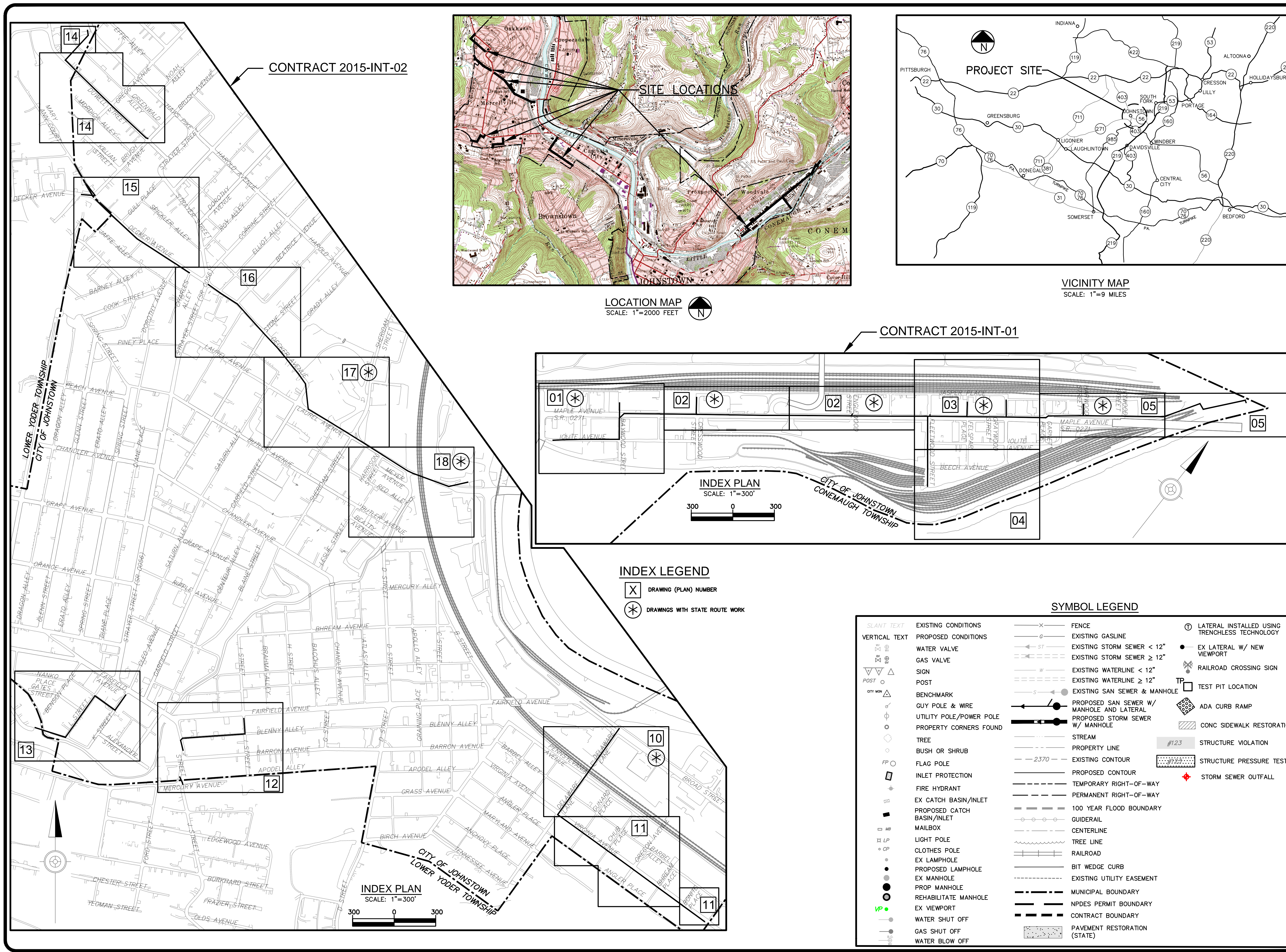
WOODVALE / OAKHURST INTERCEPTOR REHABILITATION & STORM WATER SEPARATION PROJECT

CONTRACT 2015-INT-01
CONTRACT 2015-INT-02

CITY OF JOHNSTOWN
Cambria County, Pennsylvania

NOVEMBER 2014



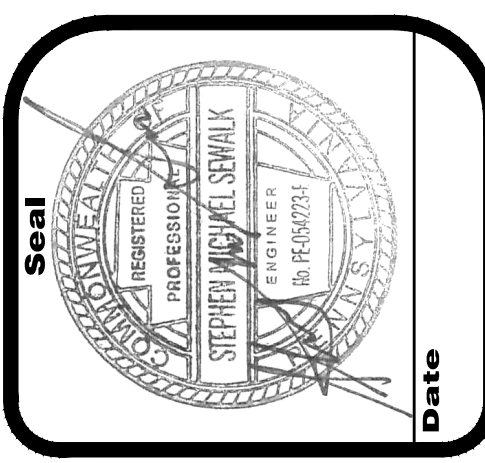


INDEX LEGEND

- [X] DRAWING (PLAN) NUMBER
- [*] DRAWINGS WITH STATE ROUTE WORK

SYMBOL LEGEND

- | | | | |
|---------------|----------------------------|---|---|
| SLANT TEXT | EXISTING CONDITIONS | [X] FENCE | [T] LATERAL INSTALLED USING TRENCHLESS TECHNOLOGY |
| VERTICAL TEXT | PROPOSED CONDITIONS | [G] EXISTING GASLINE | [●] EX LATERAL W/ NEW VIEWPORT |
| [V] | WATER VALVE | [ST] EXISTING STORM SEWER < 12" | [X] RAILROAD CROSSING SIGN |
| [G] | GAS VALVE | [W] EXISTING WATERLINE < 12" | [TP] TEST PIT LOCATION |
| [P] | SIGN | [S] EXISTING WATERLINE ≥ 12" | [R] ADA CURB RAMP |
| [CITY MON] | POST | [S] EXISTING SAN SEWER & MANHOLE | [H] CONC SIDEWALK RESTORATION |
| [O] | BENCHMARK | [●] PROPOSED SAN SEWER W/ MANHOLE AND LATERAL | [#123] STRUCTURE VIOLATION |
| [P] | GUY POLE & WIRE | [●] PROPOSED STORM SEWER W/ MANHOLE | [D] STRUCTURE PRESSURE TESTED |
| [P] | UTILITY POLE/POWER POLE | [—] STREAM | [♦] STORM SEWER OUTFALL |
| [P] | PROPERTY CORNERS FOUND | [—] PROPERTY LINE | |
| [O] | TREE | [—2370] EXISTING CONTOUR | |
| [B] | BUSH OR SHRUB | [—] PROPOSED CONTOUR | |
| [FP] | FLAG POLE | [—] TEMPORARY RIGHT-OF-WAY | |
| [P] | INLET PROTECTION | [—] PERMANENT RIGHT-OF-WAY | |
| [P] | FIRE HYDRANT | [—] 100 YEAR FLOOD BOUNDARY | |
| [P] | EX CATCH BASIN/INLET | [—] GUIDERAIL | |
| [P] | PROPOSED CATCH BASIN/INLET | [—] CENTERLINE | |
| [P] | MAILBOX | [—] TREE LINE | |
| [P] | LIGHT POLE | [—] RAILROAD | |
| [P] | CLOTHES POLE | [—] BIT WEDGE CURB | |
| [P] | EX LAMPPOLE | [—] EXISTING UTILITY EASEMENT | |
| [P] | PROPOSED LAMPPOLE | [—] MUNICIPAL BOUNDARY | |
| [P] | EX MANHOLE | [—] NPDES PERMIT BOUNDARY | |
| [P] | PROP MANHOLE | [—] CONTRACT BOUNDARY | |
| [P] | REHABILITATE MANHOLE | [—] PAVEMENT RESTORATION (STATE) | |
| [P] | EX VIEWPORT | | |
| [P] | WATER SHUT OFF | | |
| [P] | GAS SHUT OFF | | |
| [P] | WATER BLOW OFF | | |



No.	Revisions	Date

Scale	AS NOTED
Date	NOVEMBER 2014
Drawn by	B.T.M.
Checked by	B.L.P.
Project No.	0820-14-507
File No.	4426-S-53

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CONTRACTS 2015-INT-01 & 2015-INT-02

CITY OF JOHNSTOWN
CAMBRIA COUNTY, PENNSYLVANIA

INDEX PLAN, LOCATION MAP, VICINITY MAP & SYMBOL LEGEND

Drawing No.
INDEX

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GENERAL NOTES

- 1. UTILITY LINE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFICATION IS REQUIRED PRIOR TO ANY CONSTRUCTION. REFER TO THE BOUND SPECIFICATION DOCUMENTS FOR ACT 287 & 172, UNDERGROUND UTILITY INFORMATION. UNDERGROUND TELEPHONE, ELECTRIC, GAS AND DRAINAGE LINES MAY BE PRESENT AT SOME WORK LOCATIONS.
2. ALL WORK WITHIN THE TOWNSHIP OR CITY RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THAT MUNICIPALITY AND THE CONTRACT DOCUMENTS.
3. CONTRACTOR SHALL NOTIFY UTILITY COMPANY IN THE EVENT ITEMS SUCH AS POLE SHORING IS REQUIRED. THESE ITEMS TO BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
4. EXISTING PIPE LOCATIONS SHOWN ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY.
5. EXISTING DRAINAGE FACILITIES MUST REMAIN INTACT DURING CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. ALL AREAS DISTURBED BY THE CONSTRUCTION WORK SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS AND DRAWINGS TO THEIR ORIGINAL CONDITION OR BETTER.
7. ALL DISTURBED AREAS NOT RECEIVING OTHER SURFACE TREATMENT SHALL BE GRADED, SEEDED, AND MULCHED.
8. EXISTING SEWERS SHALL REMAIN IN OPERATION DURING CONSTRUCTION. ALL TEMPORARY PIPING AND PUMPING SHALL BE PROVIDED BY CONTRACTOR AT NOT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL SUPPORT AND STABILIZE THE EXISTING MANHOLES WHILE EXCAVATING FOR THE SEWER INSTALLATION.
10. ANY DAMAGE TO THE EXISTING MANHOLES DESIGNATED TO REMAIN SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR CAUSES MAJOR STRUCTURAL DAMAGE AND/OR CRACKS IN THE MANHOLE, THE DAMAGED SECTIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
11. TEST PITS SHALL BE EXCAVATED TO FIND EXISTING UTILITIES BEFORE THE INSTALLATION OF ANY OF THE PROPOSED SANITARY SEWERS. ONCE UTILITIES HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY, UTILITIES SHALL BE MARKED AND CARE SHALL BE TAKEN NOT TO DAMAGE THE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING THE EXCAVATION OF THE TEST PIT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ANY UNMARKED UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND PAID FOR UNDER THE CORRESPONDING CONTINGENT ITEM. A FORM OF HYDRO/VACUUM EXCAVATION MUST BE USED FOR ALL TEST PITS UNLESS DIRECTED BY THE ENGINEER.
12. ALL STANDARD DETAILS REFERENCED IN THE DRAWINGS ARE LOCATED IN THE REAR OF THE SPECIFICATIONS.
13. ALL WORK WITHIN PENN DOT'S LEGAL RIGHT-OF-WAY SHALL BE CONDUCTED IN ACCORDANCE WITH PENN DOT PUBLICATION 408 LATEST EDITION.
14. IF A STRUCTURE OR FACILITY IS DAMAGED DURING CONSTRUCTION WITHIN PENN DOT OR MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR SHALL REPLACE THE DAMAGED ITEMS AND NECESSARY RESTORATION AT NO ADDITIONAL COST TO THE OWNER.
15. CONTRACTOR SHALL REMOVE, PROTECT AND REPLACE ALL SIGNS WITHIN THE PERMANENT AND TEMPORARY RIGHTS-OF-WAY.
16. THE CONTRACTOR SHALL FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING THE HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED IN THE CONTRACT DOCUMENTS AND THE PENN DOT HIGHWAY OCCUPANCY PERMIT RECEIVED FOR THIS PROJECT AND THE FOLLOWING:
1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES (PENN DOT PUBLICATION 212).
3. PENN DOT PUBLICATION NO. 213, WORK ZONE TRAFFIC CONTROL GUIDELINES.
4. PENN DOT PUBLICATION NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
5. PENN DOT PUBLICATION NO. 408 LATEST EDITION, SPECIFICATIONS.
6. PENN DOT PUBLICATION NO. 236 LATEST EDITION, HANDBOOK OF APPROVED SIGNS.
7. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE DEVICES, PENN DOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY PENN DOT FORCES.
17. ALL PENN DOT ADVANCED WORK ZONE SIGNING SHALL BE ON PENN DOT TYPE III BARRICADES AND BE ON PENN DOT TYPE III SHEETING.
18. THE PROPERTY LINES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE AND WERE DERIVED FROM TAX MAP RECORDS OBTAINED FROM THE CAMBRIA COUNTY COURTHOUSE AND REFLECT THE ACCURACY AND/OR INACCURACY OF THE TAX MAP INFORMATION.
19. MAINTAIN A MINIMUM OF 1.5' CLEARANCE OF VERTICAL SEPARATION BETWEEN THE PROPOSED SEWER LINES AND EXISTING WATERLINES. WHEN 1.5' CLEARANCE CANNOT BE MAINTAINED, THE SEWER PIPE SHALL BE ENCASED IN CONCRETE.
20. WITHIN PENN DOT RIGHT-OF-WAY THE TRENCH MUST BE BACKFILLED AT THE END OF THE WORKING DAY OR 24-HOUR FLAGGING OPERATION MUST BE INTACT.
21. MILL PAVEMENT AT ALL EXISTING DRIVEWAYS TO MATCH EXISTING DRIVEWAY ELEVATIONS.
22. RIM ELEVATIONS SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. ACTUAL RIM ELEVATIONS ARE TO BE SET IN THE FIELD PER FIELD CONDITIONS.
23. ALL GROUND LINES AND ELEVATIONS SHOWN ARE FINISHED GRADES.
24. MANHOLES TO BE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR OFF SITE. SEWER LINES TO BE ABANDONED SHALL BE LEFT IN PLACE.
25. SLOPES INDICATED ON THE DRAWINGS ARE SHOWN IN FT/FT.
26. LATERALS SHOWN ON THE DRAWINGS ARE BASED ON CCTV INSPECTIONS. THE LOCATION OF LATERALS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY WHICH LATERALS ARE ACTIVE BY DYE TESTING AND TELEVISIONS. ONLY ACTIVE SANITARY SEWER LATERALS SHALL BE RECONNECTED TO THE NEW INTERCEPTOR.
27. LATERALS AND VIEWPORTS SHALL BE INSTALLED AND CAPPED TO EACH PROPERTY LINE. THESE LATERALS WILL BE RECONNECTED BY OTHERS AT A LATER DATE. THE CAP SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
28. CONNECTIONS MADE FROM EXISTING SDR 35 TO NEW SDR 35 PIPE SHALL BE MADE USING SOLID SLEEVE COUPLINGS. CONNECTIONS TO ALL OTHER PIPE MATERIAL SHALL ME MADE USING A FLEXIBLE COUPLING WITH A STAINLESS STEEL SHEAR RING (ALSO REFERRED TO AS A SHEAR RING FERNCO).
29. FIRST FLOOR ELEVATIONS AND BUILDING OUTLINES ARE OMITTED FROM PROFILES FOR CLARITY.
30. LIMIT OF DISTURBANCE SHALL BE AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN STANDARD DETAILS.
31. CLAY COLLARS AND CONCRETE ANCHORS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS AND AS DIRECTED BY THE ENGINEER.
32. FOR FINAL PAVING OF PENN DOT ROADWAYS USE TYPICAL DETAIL 20.
33. SLOPES AND DISTANCES FOR PIPES ARE CALCULATED FROM INSIDE EDGE OF STRUCTURE TO INSIDE EDGE OF STRUCTURE.
34. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITHIN NS ROW WITH NS PRIOR TO CONSTRUCTION.
35. THE SEQUENCE OF CONSTRUCTION IS OUTLINED IN SECTION 1A OF THE SPECIFICATIONS AND SHALL BE FOLLOWED AS SPECIFIED.

- 36. IT IS THE RESPONSIBILITY OF THE OWNER TO ENSURE THAT ITS CONTRACTOR(S) HAVE NOTIFIED THE STATE ONE-CALL AGENCY FOR UTILITY LOCATIONS AS REQUIRED BY LAW AND IF UTILITY MARKERS ARE VISIBLE AT THE WORK SITE THE NUMBER ON THE MARKERS HAVE ALSO BEEN CALLED.
37. FOR JACK & BORE, THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
38. ALL PRESSURE PIPELINES INSTALLED BY TRENCH METHOD, WITHOUT A CASING, SHALL HAVE A WARNING TAPE PLACED DIRECTLY ABOVE THE PIPELINE, 2 FEET BELOW THE GROUND SURFACE.
39. A PEOPLES NATURAL GAS PIPELINE INSPECTOR MUST BE PRESENT AT THE TIME ANY WORK IS DONE WITHIN PEOPLES NATURAL GAS PIPELINE RIGHT-OF-WAY. (CALL MIN. 5 DAYS PRIOR TO START OF IN THIS AREA)
40. ALL LATERAL TRENCHES NOT LABELED ARE PROPOSED AS OPEN CUT.
41. INSTALLATION OF CURB RAMPS AND SIDEWALKS SHALL CONFORM TO PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION RC-67M (PUB.72) UNLESS MODIFIED BY PENNDOT REPRESENTATIVE.
42. PRIOR TO CIPP INSTALLATION, ACTIVE SERVICE LATERAL WYES SHALL BE REPLACED WITH A SDR 35 WYE CONNECTION.
43. BORE PITS SHALL NOT ENCR OACH ON STATE HIGHWAY TRAVEL LANES.
44. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS FOR NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS.
45. PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.
46. BLASTING NOT PERMITTED.

SHEET INDEX

Table with columns: SHT #, SHEET TITLE, SHT #, SHEET TITLE. Lists sheets 14 through 35, including COVER SHEET, INDEX PLAN, GENERAL NOTES, and various contract and profile sheets.

NOTE: IF NO PARTICULAR CONTRACT NUMBER APPEARS AFTER THE SHEET TITLE, IT SHALL MEAN THAT IT CAN APPLY TO ALL CONTRACTS.

UTILITY/CONTACT LIST

Table listing utility providers and contact information. Includes Greater Johnstown Water Authority, Cambria-Somerset Authority, Johnstown Redevelopment Authority, Peoples Natural Gas, Verizon North, City of Johnstown, Cambria County Conservation District, and Pennsylvania Department of Transportation.

ABBREVIATIONS

Table listing abbreviations for materials, construction terms, and surveying. Includes ACI (American Concrete Institute), ALUM (Aluminum), ASPH (Asphalt), BIT (Bituminous), BLVD (Boulevard), etc.

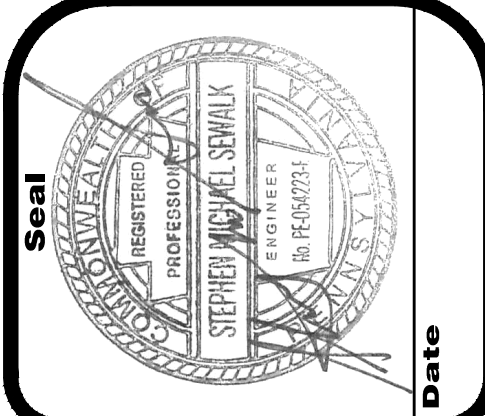


Table for Scale, AS NOTED, Date, Revisions, and No. with columns for Date, Revisions, and No.

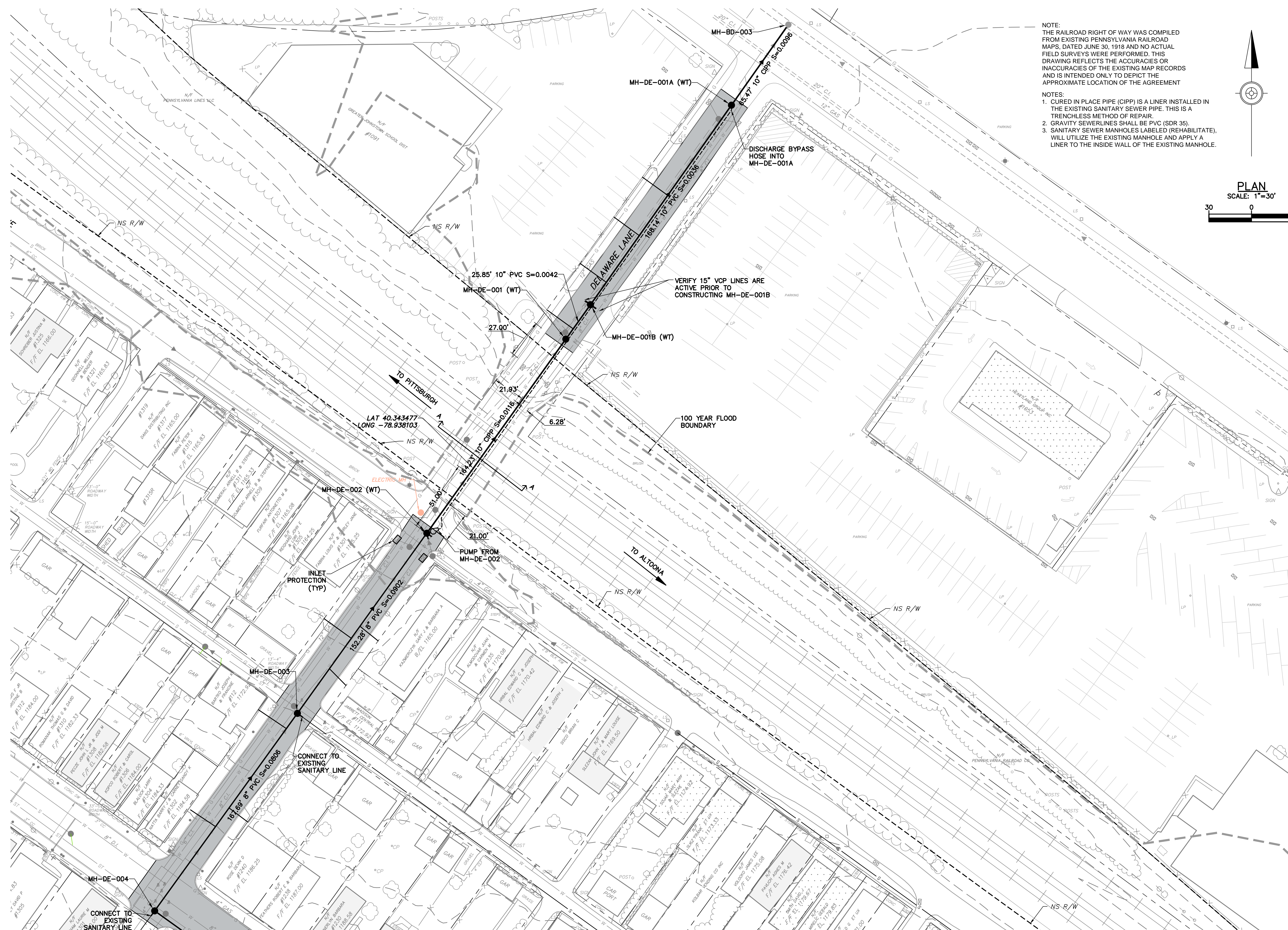
THE EADS GROUP logo and contact information for Engineering, Architecture, and Design Services. Address: 227 Franklin St., Suite 300, Johnstown, PA 15901.

JOHNSTOWN REDEVELOPMENT AUTHORITY WOODVALE / OAKHURST INTERCEPTOR REHABILITATION & STORM WATER SEPARATION PROJECT CONTRACTS 2015-INT-01 & 2015-INT-02 CAMBRIA COUNTY, PENNSYLVANIA GENERAL NOTES, ABBREVIATIONS & UTILITY LIST

CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL PA1 SYSTEMS INC. 1-800-242-1776

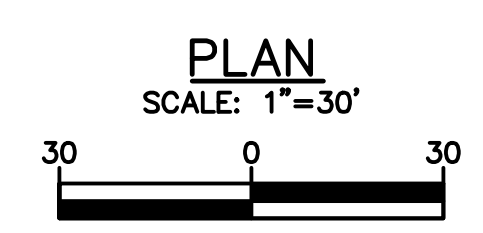
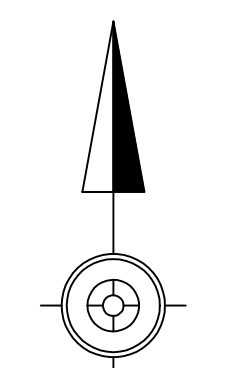
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NOTE:
THE RAILROAD RIGHT OF WAY WAS COMPILED FROM EXISTING PENNSYLVANIA RAILROAD MAPS, DATED JUNE 30, 1918 AND NO ACTUAL FIELD SURVEYS WERE PERFORMED. THIS DRAWING REFLECTS THE ACCURACIES OR INACCURACIES OF THE EXISTING MAP RECORDS AND IS INTENDED ONLY TO DEPICT THE APPROXIMATE LOCATION OF THE AGREEMENT

- NOTES:
1. CURED IN PLACE PIPE (CIPP) IS A LINER INSTALLED IN THE EXISTING SANITARY SEWER PIPE. THIS IS A TRENCHLESS METHOD OF REPAIR.
 2. GRAVITY SEWERLINES SHALL BE PVC (SDR 35).
 3. SANITARY SEWER MANHOLES LABELED (REHABILITATE), WILL UTILIZE THE EXISTING MANHOLE AND APPLY A LINER TO THE INSIDE WALL OF THE EXISTING MANHOLE.



Professional Engineer Seal for STEPHEN M. SEWELL, No. 10384, State of Pennsylvania. Includes a date field.

No.	Revisions	Date

Scale AS NOTED
Date NOVEMBER 2014
Drawn By B.T.M.
Checked By B.L.P.
Project No. 0820-14-507
File No. 4426-S-33

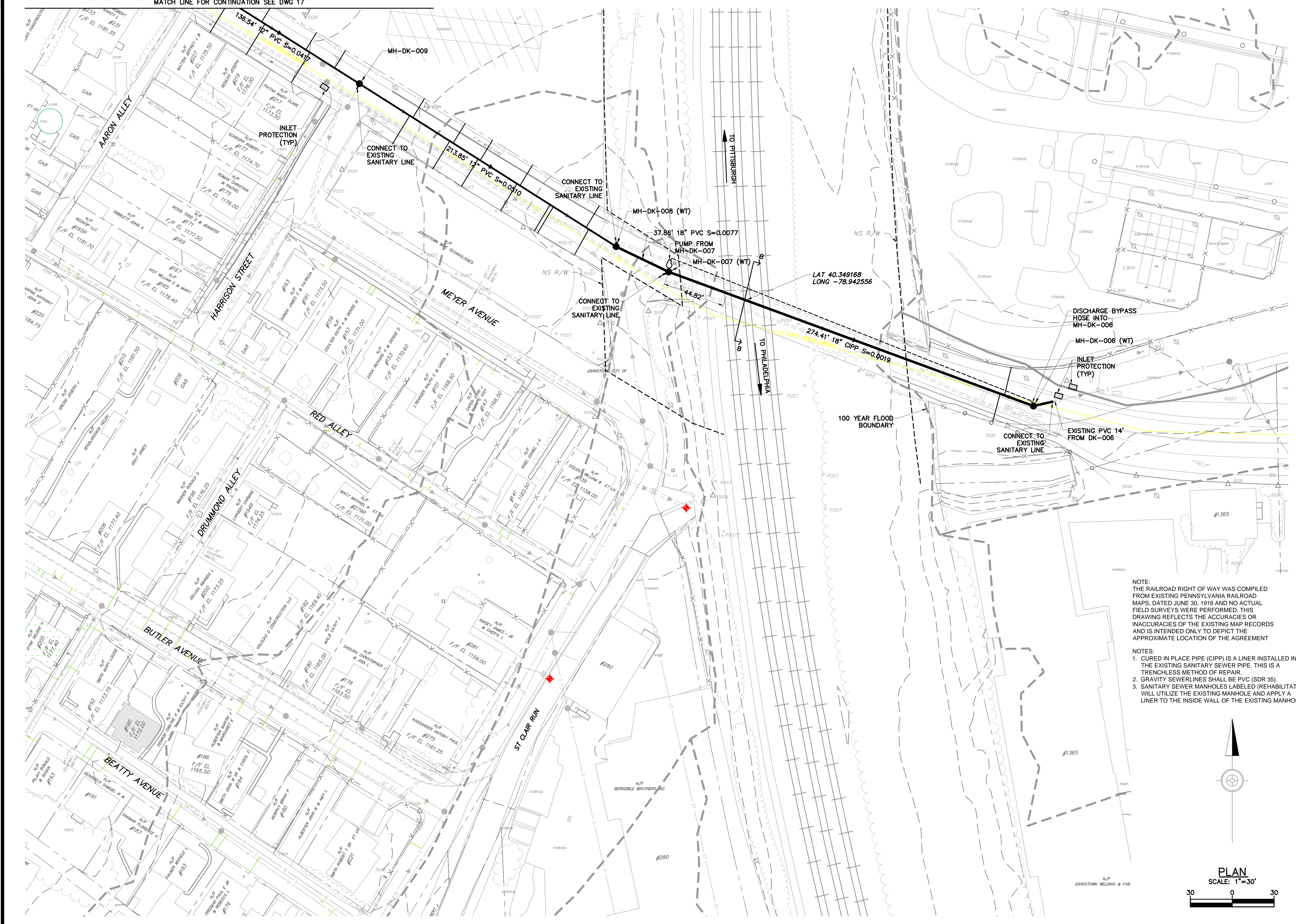
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CONTRACT 2015-INT-02 / 2016-04
CITY OF JOHNSTOWN
CAMBRIA COUNTY, PENNSYLVANIA
PLAN

Drawing No. 10

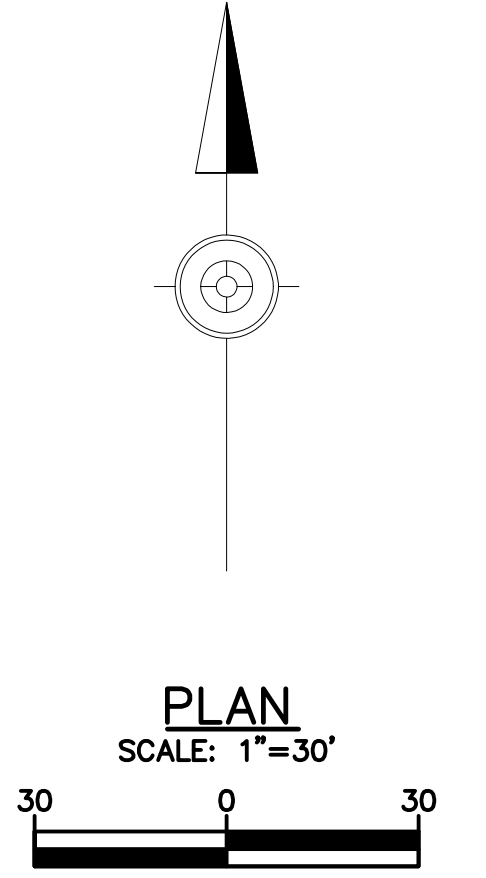
MATCH LINE FOR CONTINUATION SEE DWG 11

MATCH LINE FOR CONTINUATION SEE DWG 17



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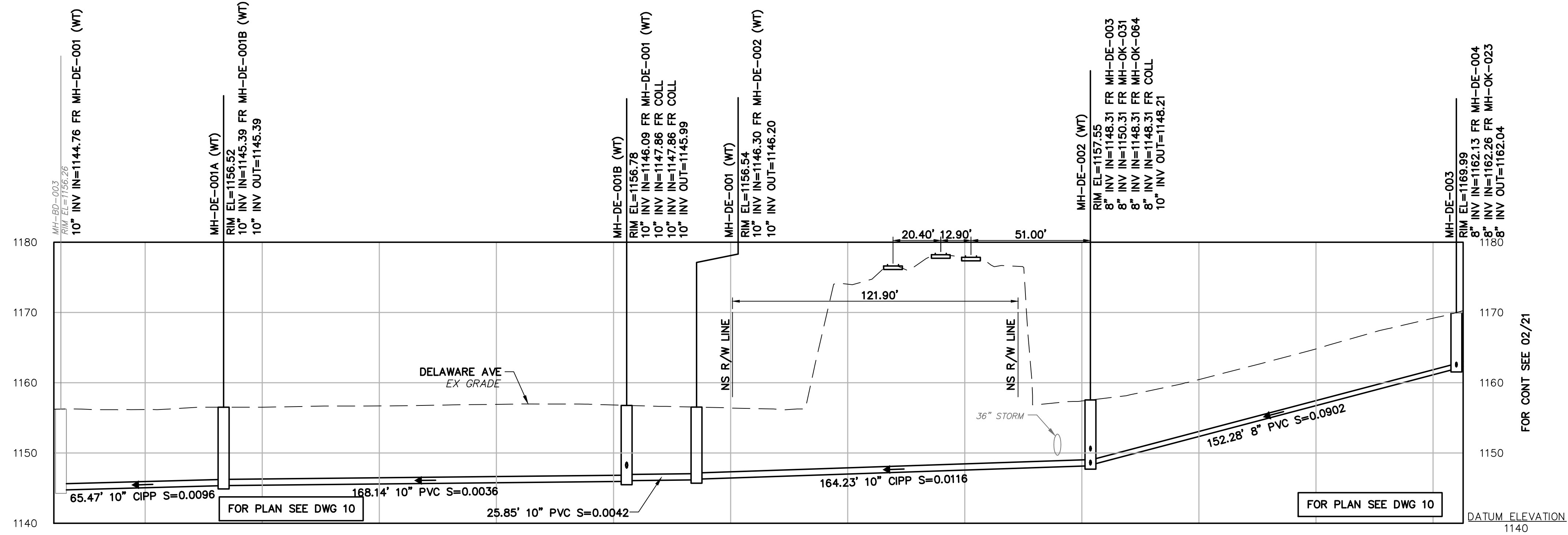
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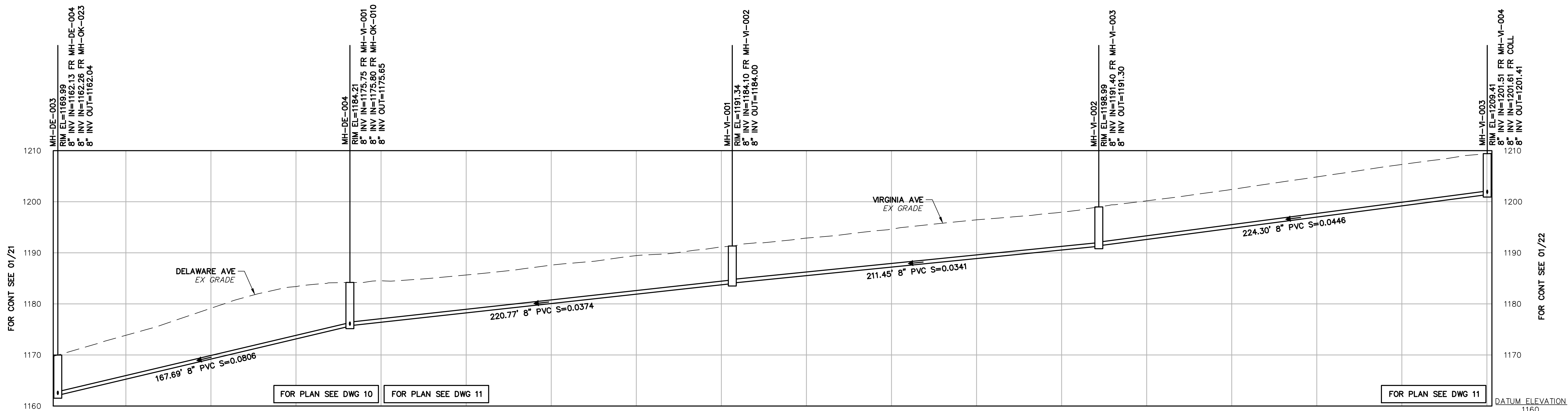
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PLAN



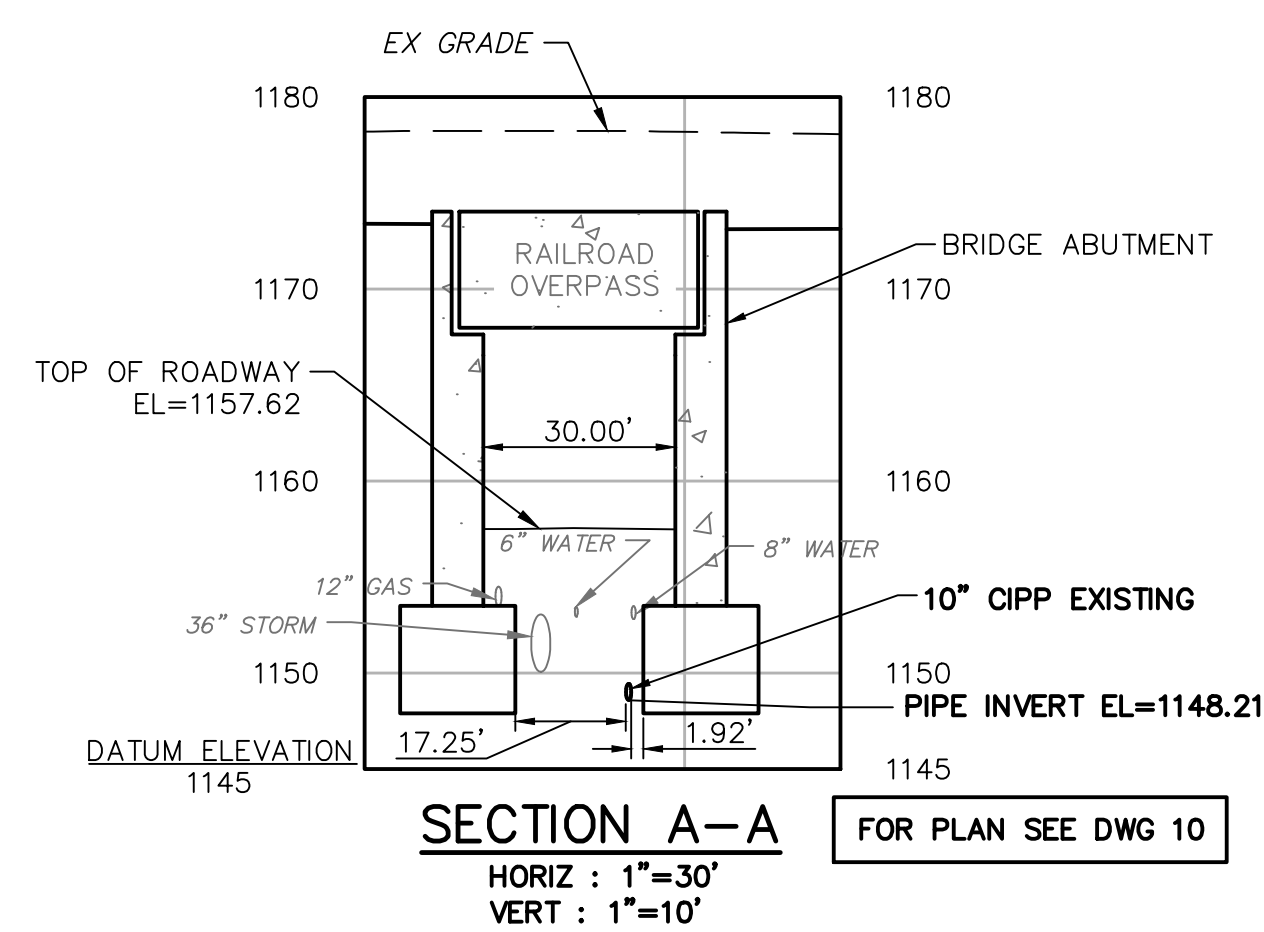
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JRA CONTRACT 2015-INT-02



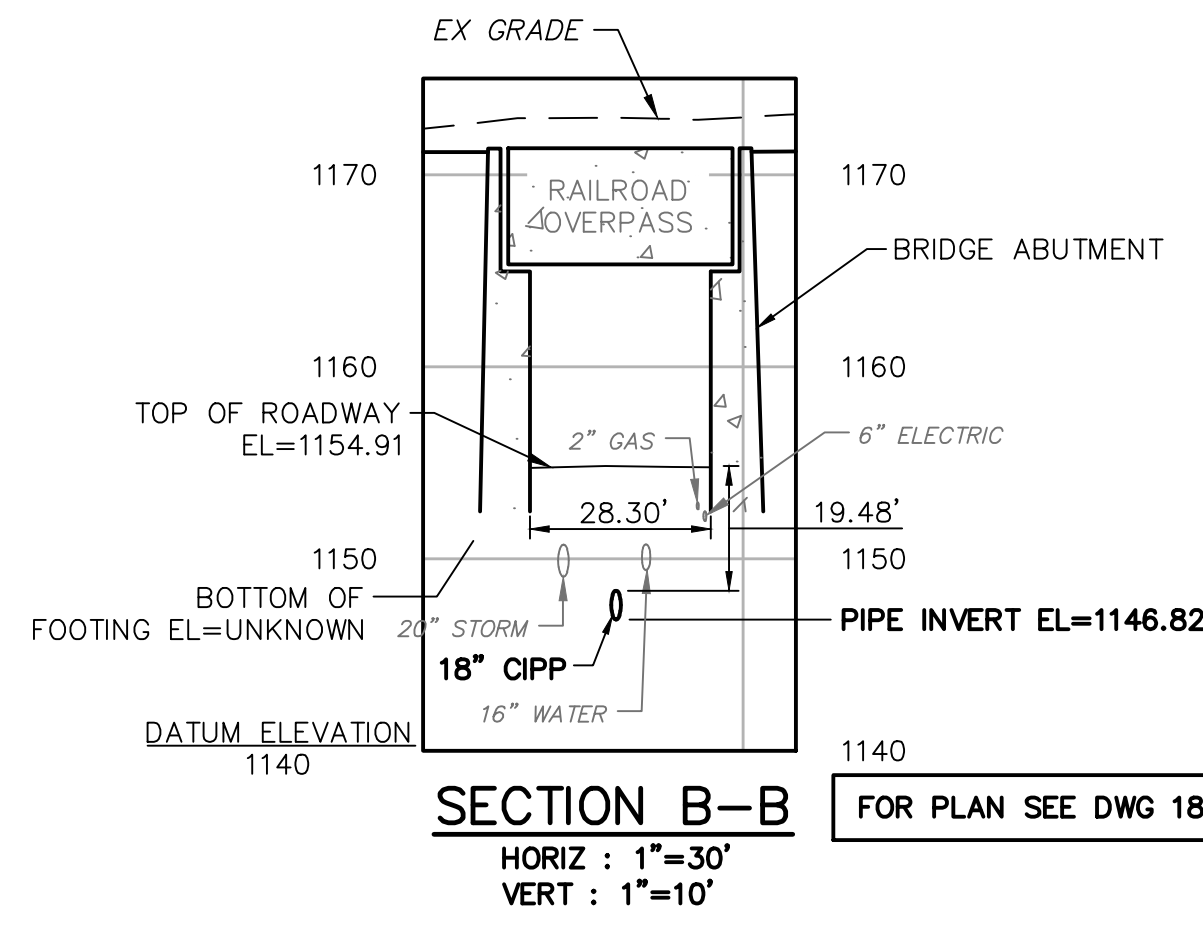
PROFILE 02/21

JRA CONTRACT 2015-INT-02



SECTION A-A

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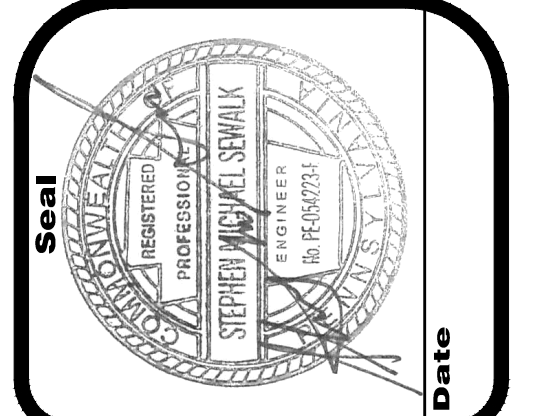


SECTION B-B

HORIZ : 1"=30'
VERT : 1"=10'

PROFILE SCALE

HORIZ : 1"=30'
VERT : 1"=10'



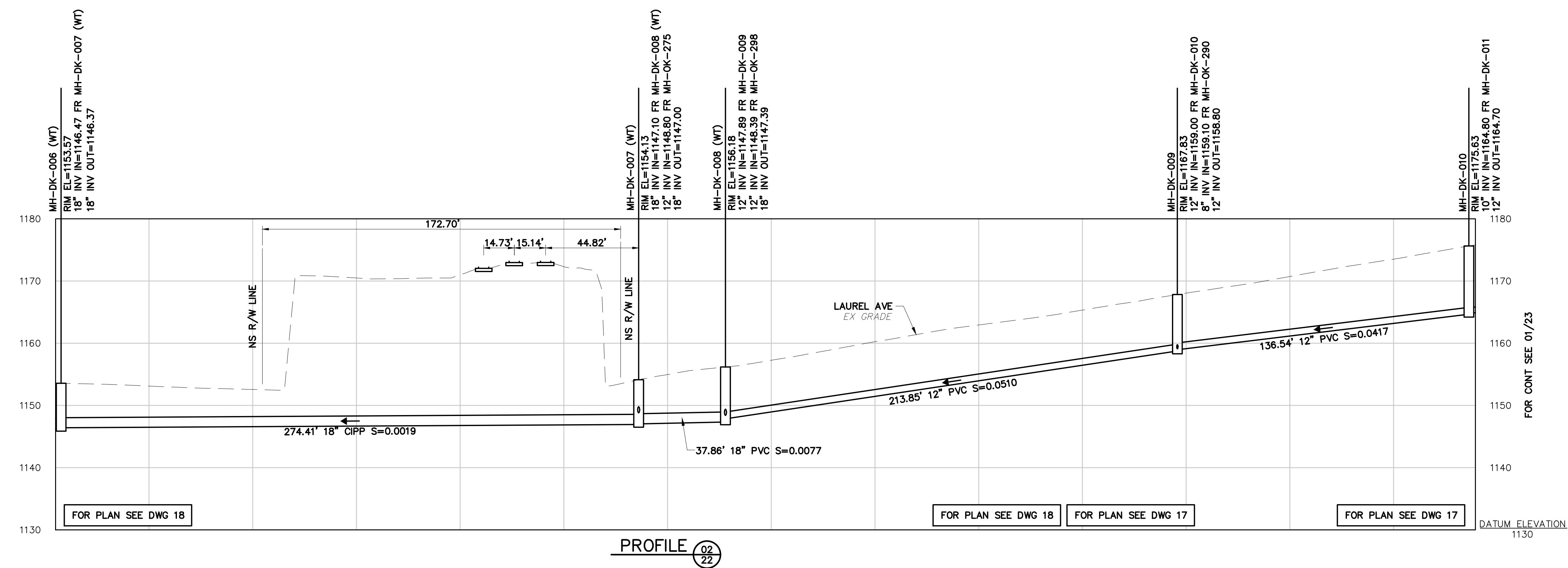
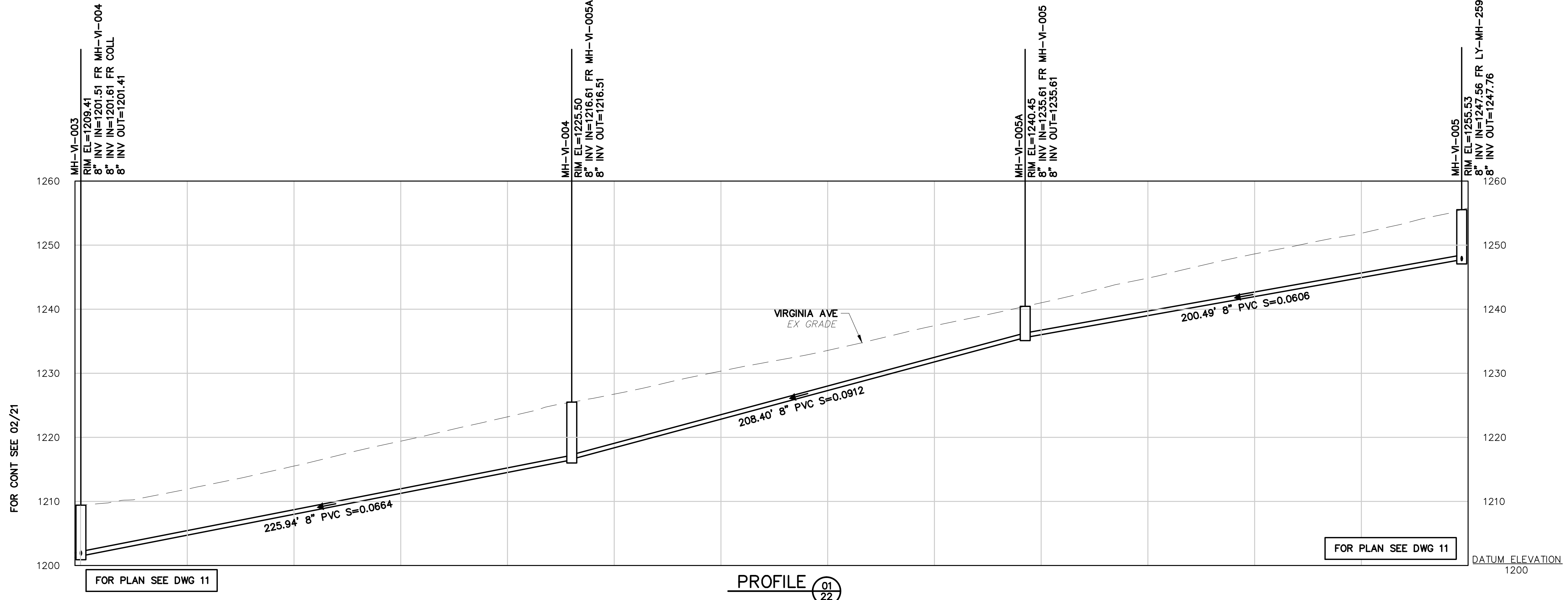
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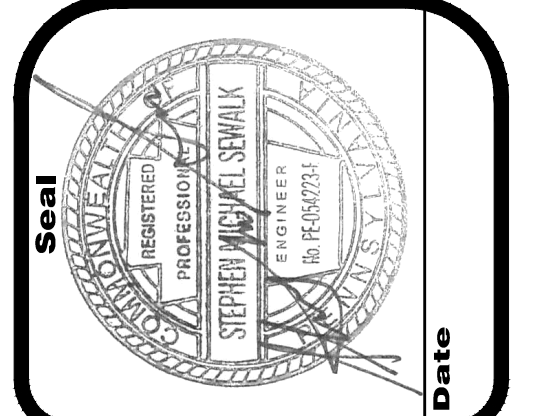
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Drawing No.
21



PROFILE SCALE
 HORIZ : 1"=30'
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