SET NO.

CITY OF RENSSELAER
JASPER COUNTY, INDIANA

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR IMPROVEMENTS
APRIL 2025

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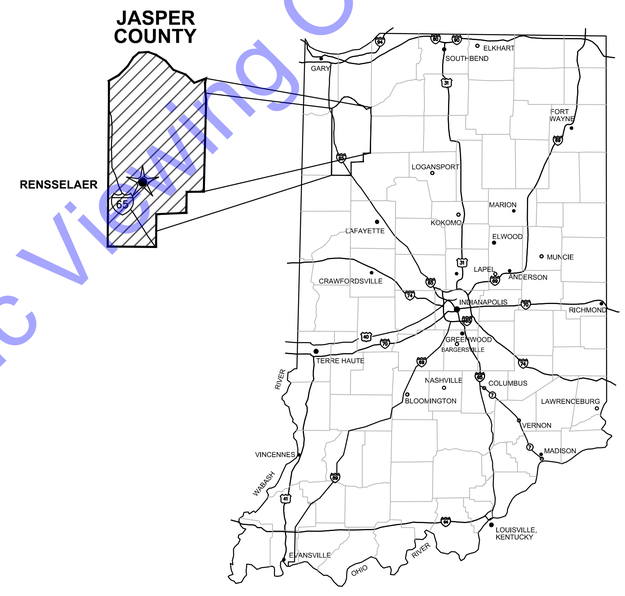

GENERAL LOCATION MAP

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QA/QC BY : _____ 4/24/2025
ANDREW ROBARGE
INDIANA P.E. No. 11100674
DATE :

CERTIFIED BY : _____ 4/24/2025
AARON BURNS
INDIANA P.E. No. 12300838
DATE :

AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER

CONTRACT NO. : S24051

File: \\EGNTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\01 - S24051 - TITLE SHEET.DWG
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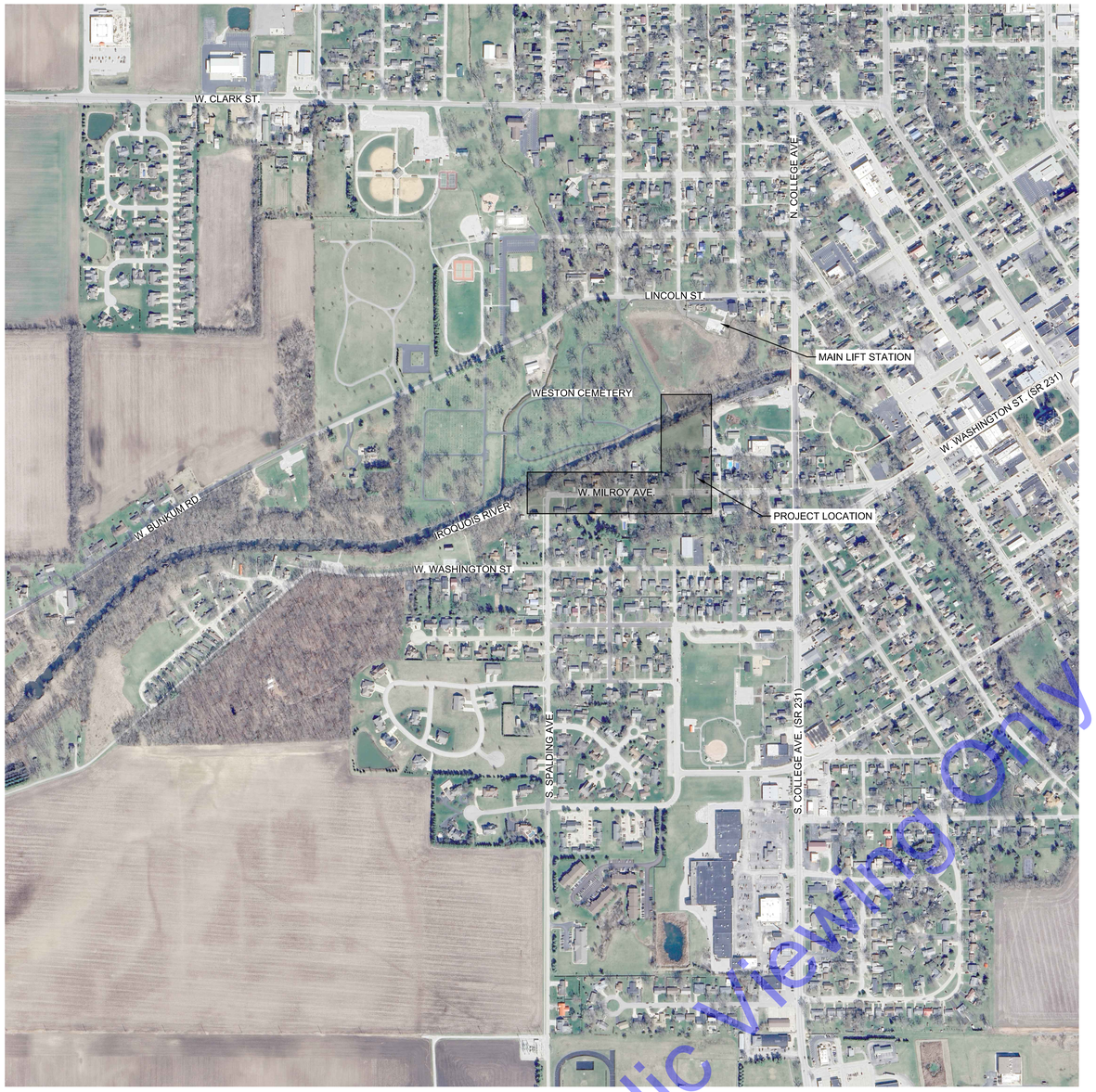
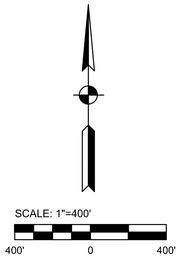


VICINITY MAP
SCALE: 1"=400'-0"



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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

CITY OF RENSSELAER,
INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
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IMPROVEMENTS

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No.	Submittal Revision	By	Date

Designed By:	Drawn By:	Checked By:
AB	BW/CH	AR
Issue Date: 4/2025	Project No: S24051	Scale: AS SHOWN

VICINITY MAP AND INDEX TO SHEETS

Drawing No: G2

Sheet: 2 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\02 - S24051 - VICINITY MAP.DWG
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DEMOLITION KEY NOTES

- D1 — CUT EXISTING ASPHALT ALONG THIS LINE TO ACCOMMODATE INSTALLATION OF NEW PAVEMENT AGAINST EXISTING PAVEMENT.
- D2 — REMOVE ASPHALT PAVEMENT/DRIVE/PARKING LOT/PATHWAY.
- D3 — REMOVE STONE DRIVE/PARKING AREA.
- D4 — REMOVE CONCRETE WALK TO NEAREST JOINT.
- D5 — CUT AND PLUG EXISTING SANITARY/STORM SEWER AT THIS LOCATION.
- D6 — TO ABANDON EXISTING SANITARY STRUCTURE, REMOVE SEWER CASTING AND CUT STRUCTURE 5' BELOW GROUND AND FILL WITH FLOWABLE FILL. IF REMOVING EXISTING SANITARY STRUCTURE; DISPOSE OF LAWFULLY.
- D7 — REMOVE EXISTING SANITARY SEWER AND DISPOSE OF LAWFULLY.
- D8 — REMOVE CURB TO NEAREST JOINT.
- D9 — CLEAR AND REMOVE EXISTING TREES AS NEEDED TO PERMIT CONSTRUCTION. SEE SPECIFICATIONS FOR TREE REMOVAL AND REPLACEMENT REQUIREMENTS.
- D10 — REMOVE AND REINSTALL EXISTING FENCE AS NECESSARY TO COMPLETE WORK. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND TO MATCH EXISTING, AS APPROVED BY OWNER.
- D11 — CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV). IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- D12 — REMOVE CONCRETE PAVEMENT DRIVEWAY.

RESTORATION KEY NOTES

- R1 — RESURFACE ASPHALT STREET/DRIVE/PARKING LOT/ PATHWAY WITH 1-1/2" OF HMA SURFACE, TYPE B, 12.5 MM. PROVIDE STRIPING/MARKINGS TO MATCH EXISTING WHERE STRIPING/MARKINGS ARE CURRENTLY PROVIDED.
- R2 — REPLACE CONCRETE PAVEMENT DRIVEWAY.
- R3 — RESTORE STONE DRIVE/PARKING AREA.
- R4 — REPLACE CONCRETE WALK TO NEAREST JOINT.
- R5 — PLUG EXISTING SANITARY SEWER PIPE AND FILL WITH FLOWABLE FILL AND ABANDON IN PLACE.
- R6 — REPLACE EXISTING VEGETATION/LANDSCAPING TO EQUAL OR BETTER AS REQUIRED FOR INSTALLATION OF IMPROVEMENTS.
- R7 — CONTRACTOR SHALL PROVIDE FINAL GRADING AND SEEDING FOR ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION TO EQUAL OR BETTER CONDITION AS APPROVED BY OWNER.
- R8 — REPLACE STACK CURB TO NEAREST JOINT.
- R9 — CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV). IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- R10 — REPLACE EXISTING TREES THAT HAVE BEEN REMOVED. SEE SPECIFICATIONS FOR TREE REMOVAL AND REPLACEMENT REQUIREMENTS.
- R11 — REMOVE AND REINSTALL EXISTING FENCE AS NECESSARY TO COMPLETE WORK. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND TO MATCH EXISTING, AS APPROVED BY OWNER.
- R12 — CONTRACTOR SHALL PROVIDE ARMORFLEX SLOPE STABALIZATION FOR RIVER CROSSING (SEE DETAIL, DWG. MD4).

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EXISTING UTILITY NOTES

1. THE EXISTING UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. LOCATION, SIZE AND MATERIAL SHOWN ON UTILITIES ARE FROM AVAILABLE RECORDS AND AVAILABLE FIELD MARKINGS, SUPPLIED BY THE RESPECTIVE UTILITY COMPANY, THE INDIANA UNDERGROUND PLANT PROTECTION SERVICE (IUPPS) MUST BE NOTIFIED 48 HOURS PRIOR TO ANY EXCAVATION FOR VERIFICATION OF LOCATION, SIZE AND MATERIAL FOR EXISTING UNDERGROUND UTILITIES (1-800-382-5544).
2. SIZE, MATERIAL, DEPTH AND LOCATION OF KNOWN EXISTING SEWER FACILITIES ARE FROM AVAILABLE HISTORIC INFORMATION AND ABOVE-GROUND INSPECTION AND MEASUREMENT. THE CONTRACTOR SHALL VERIFY ALL SEWER INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION WHICH WOULD BE IMPACTED BY FACILITIES NOT LOCATED AS SHOWN IN THE CONTRACT DOCUMENTS. THE COST TO CORRECT ANY FACILITIES INSTALLED PRIOR TO VERIFICATION OF EXISTING CONDITIONS BY THE CONTRACTOR SHALL BE AT NO COST TO THE OWNER OR ENGINEER, DIFFERING CONDITIONS DISCOVERED DURING VERIFICATION WILL BE HANDLED PER THE CONTRACT DOCUMENTS.
3. THE LOCATIONS OF UTILITIES AND STRUCTURES, BOTH SURFACE AND SUBSURFACE, ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE OR CORRECT. DETERMINING THE EXACT LOCATION AND PROTECTING UTILITIES AND STRUCTURES ARE THE RESPONSIBILITY OF THE CONTRACTOR, DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT, IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RESTORATION OF SAME IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER AND FOR ANY RESULTING CONTINGENT DAMAGE AND COST.
4. IF UTILITY FACILITIES OTHER THAN THOSE SHOWN ARE LOCATED, OR IF UTILITIES ARE LOCATED WHICH ARE NOT IN ACCORDANCE WITH THE LOCATIONS SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE IF PLAN REVISIONS ARE NEEDED.
5. ALL EXISTING UTILITIES SHOWN IN PROFILE ARE INDICATED AT THEIR ASSUMED ELEVATION. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
6. IN GENERAL, UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL ASSUME THAT UNDERGROUND SERVICE LINES EXIST TO EACH PROPERTY ALONG THE NEW SEWER ROUTE FOR WATER, SANITARY SEWER, GAS, ELECTRIC, TELEPHONE, AND FIBER OPTIC. THE CONTRACTOR SHALL LOCATE, PROTECT, AND IF DAMAGED BY CONTRACTOR, REPAIR ALL UTILITY SERVICE LINES ENCOUNTERED.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN IN SERVICE ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION UNLESS OTHERWISE INDICATED IN THE DRAWINGS. ANY UTILITY WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE OWNER AND THE APPLICABLE UTILITY OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/REPLACEMENT TO ALL DAMAGED WATER SERVICES. CONTRACTOR MUST NOTIFY WATER MAINTENANCE AND SERVICE DISPATCHER OF ANY DAMAGES TO THE WATER FACILITIES, DAMAGED WATER FACILITIES MUST BE REPAIRED BY THE CONTRACTOR WITHIN TWO (2) HOURS AT NO ADDITIONAL COST TO THE OWNER. IF WATER MAINTENANCE IS REQUIRED TO MAKE REPAIRS, THE CONTRACTOR WILL BE BILLED. WATER MAIN REPLACEMENT SHALL BE COORDINATED WITH INDIANA AMERICAN WATER CO, AND SHALL BE COMPLETED IN CONFORMANCE TO THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL PROTECT ALL POWER POLES FROM DAMAGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. WHERE REQUIRED, ALL UTILITY POLES ARE TO BE SUPPORTED IN A MANNER APPROVED BY THE APPROPRIATE UTILITY DURING INSTALLATION OF SEWER PIPE. ALL COSTS ASSOCIATED WITH MAINTAINING SAID FLOWS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS ASSOCIATED WITH THE PROTECTION AND/OR TEMPORARY SUPPORT OF UTILITY POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN FLOWS IN SEWERS AT ALL TIMES. BYPASS PUMPING OR ALTERNATE PROVISIONS MAY BE REQUIRED AND SHALL BE SUFFICIENT TO CONVEY FLOWS UNDER ALL CONDITIONS. ALL COSTS ASSOCIATED WITH MAINTAINING SAID FLOWS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. ALL PROPERTY AND RIGHT-OF-WAY LINES INFORMATION SHOWN IN DRAWING SET ARE APPARENT AND SHALLNOT BE DEEMED EXACT LOCATIONS, UNLESS OTHERWISE NOTED.
12. EXISTING UTILITY INFORMATION SHOWN IN DRAWINGS, MEETS "ASCE 36-02" QUALITY LEVEL B, UNLESS OTHERWISE NOTED.

    UTILITY COLLECTION AND PROJECT DIRECTION OF EXISTING SUBSURFACE UTILITY DATA:
    UTILITY QUALITY DESCRIPTIONS:

    UTILITY QUALITY LEVEL A: PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. ACCURACY OF LOCATION MATCHES PROJECT SURVEY TOLERANCE.

    UTILITY QUALITY LEVEL B: INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION SUBSURFACE UTILITIES. THE RELIABILITY OF THIS INFORMATION IS SURVEYED TO PROJECT CONTROL AND SUBJECT TO ACCURACY LEVELS OF THE GEOPHYSICAL TOLERANCE DEFINED BY THE PROJECT.

    UTILITY LEVEL C: INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND CORRELATING QUALITY LEVEL D INFORMATION.

    UTILITY LEVEL D: INFORMATION DERIVED FROM EXISTING RECORDS OF VERBAL RECOLLECTIONS.
13. NORTHING AND EASTING COORDINATES SHOWN ON ALL EXISTING MANHOLE, INLETS, ETC. ARE SHOWN FROM CENTER OF STRUCTURE, NOT CASTING, UNLESS OTHERWISE NOTED.

GENERAL NOTES

1. IF ANY ERRORS OR DISCREPANCIES BECOME APPARENT, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
2. LIMITS OF CONSTRUCTION SHALL BE WITHIN EXISTING RIGHT-OF-WAYS UNLESS OTHERWISE NOTED.
3. FOR AREAS OUTSIDE OF EXISTING RIGHT-OF-WAYS, THE CONTRACTOR SHALL CONFINE ALL WORK TO THE LIMITS OF PERMANENT AND TEMPORARY EASEMENTS OR CONSTRUCTION LIMIT BOUNDARIES AS SHOWN ON THE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING, AT NO ADDITIONAL COST TO THE OWNER, TEMPORARY EASEMENTS NEEDED FOR STORAGE, STOCKPILING, ACCESS, OR ANY OTHER REASON, OUTSIDE OF ANY EASEMENTS OR RIGHT-OF-WAY PROVIDED.
5. THE CONTRACTOR SHALL COORDINATE THE ACTIVITIES OF THEIR PERSONNEL, SUBCONTRACTORS, AND UTILITIES PERFORMING WORK ON THIS PROJECT, THE CONTRACTOR SHALL ALSO COORDINATE WITH THE OWNER'S OPERATIONS AND MAINTENANCE PERSONNEL WHO MAY BE WORKING IN OR NEAR THE PROJECT AREA.
6. THE CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING EROSION CONTROL AND THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES AND ELEVATIONS. ALL PIPES SHALL SLOPE UNIFORMLY BETWEEN INVERT ELEVATIONS SHOWN.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, PARKING LOTS, OR WALKS, THIS MATERIAL REMOVAL OR SWEEPING OF THE STREETS SHALL BE DONE AS FREQUENTLY AS NECESSARY TO MAINTAIN REASONABLY CLEAN AREAS. THE CONTRACTOR SHALL ALSO CONTROL DUST THROUGH THE USE OF WATERING. APPLICATION OF DUST PALLIATIVE, OR OTHER APPROVED METHODS. NO DIRECT PAYMENT WILL BE MADE FOR ANY SUCH CLEANING WORK OR DUST CONTROL.
9. EXISTING SIGNS TO BE REMOVED AND RESET AFTER CONSTRUCTION SHALL BE COORDINATED WITH THE CITY OF RENSSELAER.
10. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ALL PERMITS OBTAINED FOR THE PROJECT.
11. THE COST OF ABIDING BY THE PROVISIONS OR PERMITS ISSUED BY VARIOUS AGENCIES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS SHALL ALSO BE CONSIDERED INCIDENTAL TO THE CONTRACT.
12. THE CONTRACTOR SHALL PRESERVE AND PROTECT PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS AND BENCHMARKS, SUCH AS STONES, PIPES, OR OTHER MONUMENTS ENCOUNTERED. IF THE CONTRACTOR MUST DISTURB THE PROPERTY MARKERS OR MONUMENTS, THEIR HORIZONTAL AND VERTICAL LOCATION SHALL BE DETERMINED AND RECORDED BY A REGISTERED LAND SURVEYOR AND THE OWNER NOTIFIED BEFORE DISTURBING. ALL PROPERTY MARKERS AND MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A REGISTERED LAND SURVEYOR TO FINAL COMPLETION.
13. ROADWAY SURFACING AND BASE MATERIALS OR OTHER PROPERTY REMOVED OR DAMAGED, SHALL BE REPLACED OR REPAIRED AS PROVIDED FOR IN THE CONTRACT DOCUMENTS.
14. REGRADE AREAS AS NECESSARY WITHIN THE CONSTRUCTION LIMITS TO ALLOW PROPER DRAINAGE TO EXISTING STORM SEWER STRUCTURES, ANY EXCESS SOIL AND SPOIL MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE.
15. WORK NOT SPECIFIED FOR PAYMENT AS OR PART OF A SPECIFIC PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT BY THE CONTRACTOR.
16. COORDINATION AND PROPER FIT AND SURVEY OF ALL PROJECT ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION STAKEOUT OF THE PROJECT ELEMENTS TO VERIFY THE COORDINATES PROVIDED.
17. THE CONTRACTOR SHALL VERIFY ALL RIM ELEVATIONS OF PROPOSED STRUCTURES PRIOR TO ORDERING ANY MATERIALS.
18. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT IN CONTRACT DOCUMENTS FOR BORING LOCATIONS AND LOGS.
19. ALL NORTHINGS AND EASTINGS PROVIDED FOR NEW STRUCTURES ARE DESIGNATED TO THE CENTER OF THE STRUCTURE.
20. ADDITIONAL ACCESS ROAD OUTSIDE OF WHAT IS SHOWN ON DRAWINGS SHALL BE INCIDENTAL TO OTHER PAY ITEMS.
21. CONTRACTOR TO MAINTAIN 10'-0" HORIZONTAL AND 1'-6" VERTICAL SEPARATION BETWEEN SANITARY SEWERS/SANITARY LATERALS AND WATER MAINS/SERVICE LATERALS IN ACCORDANCE WITH IDEM REQUIREMENTS AND INDIANA ADMINISTRATIVE CODE. MANHOLES AND WATER MAINS/SERVICE LATERALS SHALL HAVE MINIMUM 8'-0" SEPARATION. WHERE SEPARATION DISTANCES CAN NOT BE MAINTAINED, PRESSURE RATED SEWER PIPE AND APPROPRIATELY LINED MANHOLES SHALL BE UTILIZED IN ACCORDANCE WITH THE SEPARATIONS. SEWER SHALL HAVE PIPE JOINTS LOCATED AS FAR AS POSSIBLE FROM THE WATER MAIN (ONE FULL SEWER PIPE LENGTH CENTERED AT WATER MAIN).
22. CONTRACTOR TO KEEP ALL CONSTRUCTION ACTIVITY, ACCESS AND STORAGE AWAY FROM WETLANDS AT ALL TIMES DURING THE PROJECT. WETLANDS ARE SHOWN ON DRAWINGS AS APPROXIMATE LOCATION.

EROSION CONTROL LEGEND

- SF — SILT FENCE
- EB — EROSION CONTROL BLANKET
- IP — INLET PROTECTION
- PS — PERMANENT SEEDING/MULCHING
- AF — ARMORFLEX

LEGEND

- GRANULAR BACKFILL (PROFILES AND SECTIONS ONLY)
- ASPHALT (PROFILES AND SECTIONS ONLY)
- ABANDONED IN PLACE (PLAN ONLY)
- STONE DRIVE (PLAN) GROUT (PROFILES AND SECTIONS)
- CONCRETE
- GRASS (PROFILE ONLY)
- ARMORFLEX
- WETLANDS
- BRICK

- NEW SANITARY MANHOLE
- NEW SANITARY SEWER
- EXISTING SANITARY MANHOLE
- EXSN — EXISTING SANITARY SEWER
- EXISTING SANITARY SEWER TO BE PLUGGED
- EXISTING SANITARY SEWER TO BE ABANDONED/FILLED
- EXISTING SANITARY SEWER TO BE REMOVED
- EXFM — EXISTING FORCE MAIN
- EXISTING STORM STRUCTURE
- EXST — EXISTING STORM SEWER
- EXISTING STORM SEWER TO BE PLUGGED
- EXISTING STORM SEWER TO BE ABANDONED/FILLED
- EXISTING STORM SEWER TO BE REMOVED
- EXW — EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER SPIGOT
- EXISTING WATER METER

- EXISTING GAS METER
- EXF/O — EXISTING FIBER OPTICS
- EXISTING FIBER OPTICS BOX
- EXISTING ELECTRIC BOX
- MB — EXISTING MAILBOX
- EXISTING SIGN
- EXISTING POST
- X — X — EXISTING FENCE
- T — T — EXISTING GUARDRAIL
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- EXISTING SHRUB/BUSH
- EXISTING TREE LINE
- 890 — EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- R/W — APPROX. RIGHT-OF-WAY
- PL — APPROX. PROPERTY LINE

- EXG — EXISTING GAS LINE
- EXISTING GAS VALVE
- EXISTING LIGHT POLE
- EXISTING POWER POLE/W/ GUY WIRE
- EXOHE — EXISTING OVERHEAD ELECTRIC
- EXBT — EXBT — EXISTING BURIED TELEPHONE
- EXBC — EXBC — EXISTING BURIED CABLE
- TP — EXISTING TELEPHONE PEDESTAL
- EDGE OF DRIVE
- X 866.8 — EXISTING SPOT ELEVATION
- CONTROL POINT
- TEMPORARY BENCH MARK
- EXISTING LARGE ROCK
- FLWY — FLOODWAY
- FLPL — FLOODPLAIN
- WATER EDGE
- EXOHT — EXOHT — EXISTING OVERHEAD TELEPHONE
- EXBE — EXISTING BURIED ELECTRIC

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AARON CHRISTOPHER BURNS — REGISTERED — No. 12300838 — STATE OF INDIANA — PROFESSIONAL ENGINEER
Signature — 4/24/2025 Date

CITY OF RENSSELAER,
INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

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Designed By:	Drawn By:	Checked By:
AB	BW/CH	AR
Issue Date: 4/2025	Project No: S24051	Scale: AS SHOWN

EXISTING UTILITY NOTES, GENERAL NOTES, UTILITY CONTACTS, AND LEGEND

Drawing No: G3

Sheet: 3 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\02 - S24051 - VICINITY MAP.DWG
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GENERAL LOCATION MAP
SCALE: 1"=100'-0"

SCALE: 1"=100'
100' 0 100'

PROJECT COORDINATES ARE BASED ON THE FOLLOWING:

HORIZONTAL - US STATE PLANE COORDINATES: NAD83 (NORTH AMERICAN DATUM) INDIANA WEST ZONE, IN83-WF.

VERTICAL - USGS 1988 NAVD (NORTH AMERICAN VERTICAL DATUM) - PER GPS OBSERVATIONS (NOT VERIFIED BY PHYSICAL LOCATION OF PUBLISHED USGS MONUMENTS).

CONTRACTOR SHALL ESTABLISH TEMPORARY BENCHMARKS ALONG ALIGNMENT AS A PART OF THEIR PRE-CONSTRUCTION SURVEY ACTIVITIES. CONTRACTOR SHALL CONFIRM ELEVATIONS OF PROPOSED ALIGNMENT AND PROVIDE TO OWNER/ENGINEER PRIOR TO CONSTRUCTION.

CONTROL SCHEDULE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
7300			659.61	BM CHZ X EAST FLANGE BOLT FH NW QUAD SPARLING/WASHINGTON
7301			649.13	BM CHZ SQR ON COMB SEWER STR BETWEEN MH CASTINGS
7302			659.56	BM CHZ X EAST FLANGE BOLT FH *BOTTOM OF DIVOT OF SCREW
7303			660.46	BM RAILROAD SPK SOUTH SIDE PWP 3589
7304			651.73	BM CHZ X BB FH
7305			650.24	BM RAILROAD SPK W FACE PWP 00668
7306			654.56	BM CHZ SQR SOUTHWEST EDGE LIFT
31001	2070819.01	2931208.50		HCV CHZ X EAST SIDE WALK 10FT S FH NW QUAD SPARLING/WASHINGTON
31002	2071233.92	2931226.89		HCV DIMPLE N RIM IR
31003	2071203.70	2931639.05		HCV MAG CNTR WALK
31004	2071248.95	2932041.23		HCV MAG N SIDE WALK
31005	2071250.94	2932610.14		HCV MAG IN WALK 10FT W SIGN MILROY/COLLEGE
31007	2071518.23	2931850.11		HCV 48IN 5/8RBR W/DIMPLE
31008	2071731.23	2931908.55		HCV MAG
31009	2072114.58	2931705.99		HCV MAG CNTR PATH AT MAUSOLEUM

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REGISTERED
AARON CHRISTOPHER BURNS
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER
Signature 4/24/2025 Date

CITY OF RENSSELAER, INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

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No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
AB	BW/CH	AR
Issue Date: 4/2025	Project No: S24051	Scale: AS SHOWN

GENERAL LOCATION PLAN & CONTROL SCHEDULE

Drawing No: G4
Sheet: 4 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\N CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\03 - S24051 - GENERAL LOCATION MAP.DWG
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EX. SANITARY STRUCTURE TABLE

STRUCTURE NAME:	COORDINATES:	RIM:	PIPES IN:	PIPES OUT:
CS - 300	N: 2071780.89 E: 2932009.20	651.6±	24" INV: 640.54 N (IN)	24" INV: 641.60 S (OUT)
CS - 301	N: 2071787.57 E: 2932010.70	651.6±	24" INV: 640.75 N (IN) 8" INV: 640.80 W (IN)	NO INFORMATION
EX. MH SAN - 205	N: 2071707.93 E: 2931978.31	648.2±	8" INV: 639.30 SE (IN)	24" INV: 638.60 E (OUT)
SAN - 10	N: 2071208.39 E: 2932101.41	657.1±	12" INV: 651.54 SE (IN) 6" INV: 651.84 E (IN) 6" INV: 654.34 NE (IN)	12" INV: 651.24 NW (OUT)
SAN - 11	N: 2071271.35 E: 2932035.63	657.3±	12" INV: 649.69 SE (IN)	12" INV: 649.59 N (OUT)
SAN - 12	N: 2071455.00 E: 2932034.52	650.2±	12" INV: 644.34 S (IN) 6" INV: 643.59 NE (IN)	12" INV: 643.19 N (OUT)
SAN - 13	N: 2071636.55 E: 2932016.76	649.2±	12" INV: 639.65 N (IN)	8" INV: 639.55 NW (OUT) 8" INV: 639.55 NW (OUT)
SAN - 201	N: 2071255.90 E: 2931239.25	649.1±	15" INV: 643.98 S (IN)	12" INV: 644.48 N (OUT) 8" INV: 643.98 NE (OUT)
SAN - 202	N: 2071259.24 E: 2931238.91	649.1±	12" INV: 644.60 S (IN)	12" INV: 643.88 N (OUT)
SAN - 203	N: 2071474.33 E: 2931671.90	649.7±	12" INV: 641.09 SW (IN)	12" INV: 641.04 NE (OUT)
SAN - 204	N: 2071706.00 E: 2931975.10	647.8±	NO INFORMATION	24" INV: 638.60 NE (OUT)
SAN - 205	N: 2071707.93 E: 2931978.31	648.2±	8" INV: 639.30 SE (IN) 8" INV: 639.30 SE (IN) 24" INV: 638.00 SW (IN)	24" INV: 638.60 E (OUT)
SAN - 206	N: 2071714.93 E: 2931977.70	648.5±	14" INV: 640.61 S (IN)	NO INFORMATION
SAN - 207	N: 2071732.96 E: 2932040.65	650.1±	24" INV: 638.54 W (IN)	24" INV: 638.49 N (OUT)
SAN - 208	N: 2071787.05 E: 2932055.84	649.9±	24" INV: 638.19 S (IN)	36" INV: 638.19 NE (OUT)
SAN - 209	N: 2071887.20 E: 2932252.91	650.0±	36" INV: 637.81 SW (IN)	36" INV: 637.91 NW (OUT)
SAN - 210	N: 2071744.33 E: 2931972.77	650.0±	15" INV: 642.20 S (IN)	15" INV: 642.20 N (OUT)

PROPOSED STRUCTURE TABLE

STRUCTURE NAME:	COORDINATES:	RIM:	STRUCTURE SIZE:	PIPES IN:	PIPES OUT:
100	N: 2071728.16 E: 2932028.68	648.0±	96 x 96 inch Rectangular Structure	18" INV: 638.70 SE (IN) 8" INV: 638.70 SE (IN)	24" INV: 638.60 E (OUT)
101	N: 2071648.47 E: 2932063.89	650.2±	120 x 120 inch Rectangular Structure	24" INV: 639.68 SE (IN)	8" INV: 639.75 NW (OUT) 18" INV: 639.75 NW (OUT)
102	N: 2071637.82 E: 2932068.90	650.6±	72 MANHOLE	24" INV: 640.09 S (IN) 12" INV: 639.80 W (IN) 8" INV: 640.50 E (IN) 8" INV: 642.10 E (IN)	24" INV: 639.70 NW (OUT)
103	N: 2071458.89 E: 2932038.20	650.1±	60 MANHOLE	24" INV: 640.55 S (IN) 6" INV: 643.59 NE (IN)	24" INV: 640.45 N (OUT)
104	N: 2071271.35 E: 2932035.63	657.3±	72 MANHOLE	24" INV: 641.03 S (IN) 12" INV: 642.40 SE (IN) 12" INV: 649.70 SE (IN)	24" INV: 640.93 N (OUT)
105	N: 2071233.91 E: 2932035.24	657.3±	60 MANHOLE	24" INV: 641.20 W (IN) 8" INV: 650.00 E (IN) 8" INV: 643.00 E (IN)	24" INV: 641.10 N (OUT)
106	N: 2071229.72 E: 2931635.26	656.0±	60 MANHOLE	24" INV: 642.10 W (IN)	24" INV: 642.00 E (OUT)
107	N: 2071222.84 E: 2931239.38	652.7±	72 MANHOLE	15" INV: 644.79 S (IN)	24" INV: 642.89 E (OUT) 15" INV: 644.79 N (OUT)
108	N: 2071630.12 E: 2932020.04	650.0±	60 MANHOLE	12" INV: 640.20 SW (IN) 8" INV: 640.00 SW (IN) 8" INV: 642.06 SW (IN)	12" INV: 639.91 E (OUT)
201	N: 2071631.53 E: 2932095.83	650.6±	48 MANHOLE	UNKNOWN (IN)	8" INV: 645.00 NW (OUT)
METAL FLARED END	N: 2071676.40 E: 2932059.03	645.5±	METAL FLARED END	8" INV: 644.77 SE (IN)	N/A

EX. STORM STRUCTURE TABLE

STRUCTURE NAME:	COORDINATES:	RIM:	PIPES IN:	PIPES OUT:
STM - 1	N: 2071144.26 E: 2931222.17	653.8±	48" INV: 645.69 S (IN)	48" INV: 644.64 N (OUT)
STM - 2	N: 2071232.82 E: 2931226.93	651.6±	6" INV: 647.99 S (IN) 48" INV: 644.09 S (IN)	42" INV: 641.19 N (OUT)
STM - 3	N: 2071148.25 E: 2931247.47	653.1±		6" INV: 651.61 N (OUT)
STM - 4	N: 2071207.77 E: 2931275.97	652.6±	6" INV: 650.40 E (IN)	6" INV: 650.35 W (OUT)
STM - 5	N: 2071206.46 E: 2931391.78	652.8±		6" INV: 650.82 W (OUT)
STM - 6	N: 2071209.68 E: 2931809.69	656.7±		4" INV: 655.90 N (OUT)
STM - 7	N: 2071236.76 E: 2931812.33	656.7±	4" INV: 655.90 S (IN)	4" INV: 655.61 W (OUT)
STM - 8	N: 2071238.22 E: 2932089.20	656.6±		6" INV: 655.53 NE (OUT)
STM - 14	N: 2071807.91 E: 2931883.64	655.0±	84" INV: 641.47 NW (IN)	84" INV: 641.42 SE (OUT)

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PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

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STRUCTURE TABLES

Drawing No: G5

Sheet: 5 OF 28

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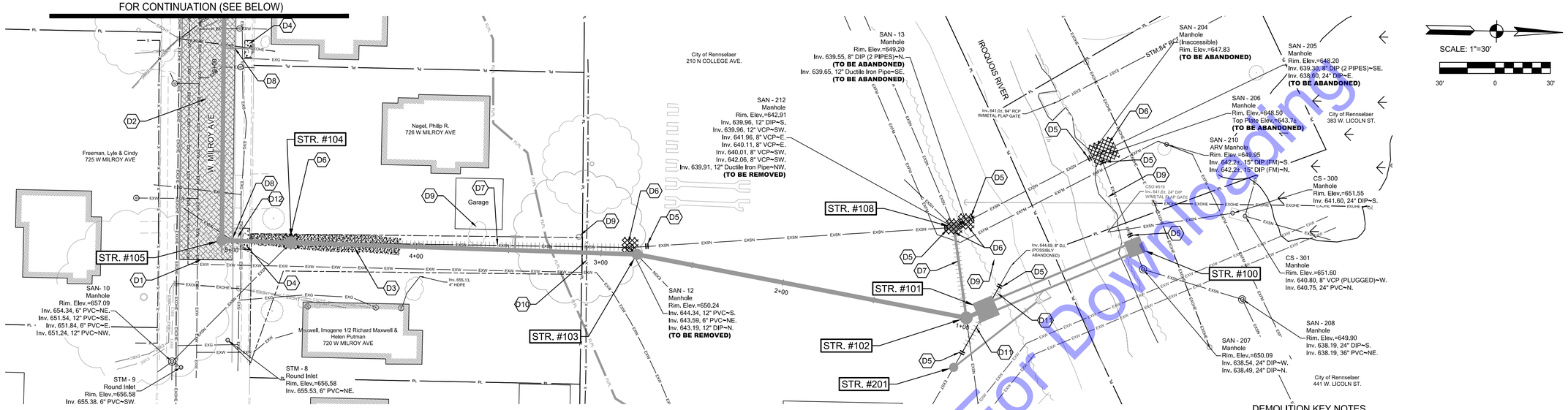
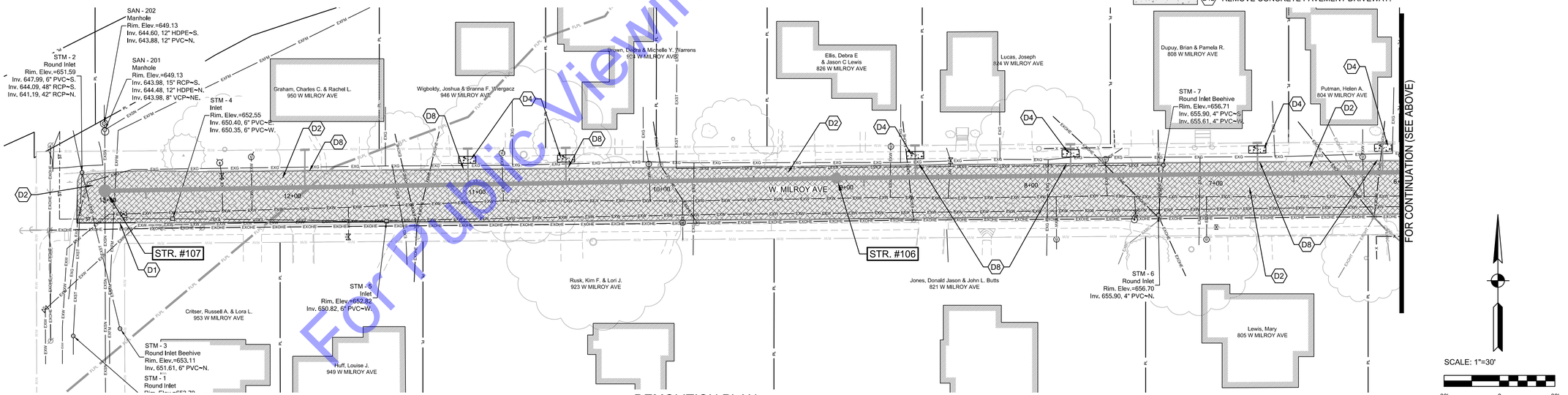


DEMOLITION PLAN

SCALE: 1"=30'-0"

DEMOLITION KEY NOTES

- D1 — CUT EXISTING ASPHALT ALONG THIS LINE TO ACCOMMODATE INSTALLATION OF NEW PAVEMENT AGAINST EXISTING PAVEMENT.
- D2 — REMOVE ASPHALT PAVEMENT/DRIVE/PARKING LOT/PATHWAY.
- D3 — REMOVE STONE DRIVE/PARKING AREA.
- D4 — REMOVE CONCRETE WALK TO NEAREST JOINT.
- D5 — CUT AND PLUG EXISTING SANITARY/STORM SEWER AT THIS LOCATION.
- D6 — TO ABANDON EXISTING SANITARY STRUCTURE, REMOVE SEWER CASTING AND CUT STRUCTURE 5' BELOW GROUND AND FILL WITH FLOWABLE FILL. IF REMOVING EXISTING SANITARY STRUCTURE; DISPOSE OF LAWFULLY.
- D7 — REMOVE EXISTING SANITARY SEWER AND DISPOSE OF LAWFULLY.
- D8 — REMOVE CURB TO NEAREST JOINT.
- D9 — CLEAR AND REMOVE EXISTING TREES AS NEEDED TO PERMIT CONSTRUCTION. SEE SPECIFICATIONS FOR TREE REMOVAL AND REPLACEMENT REQUIREMENTS.
- D10 — REMOVE AND REINSTALL EXISTING FENCE AS NECESSARY TO COMPLETE WORK. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND TO MATCH EXISTING, AS APPROVED BY OWNER.
- D11 — CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV). IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- D12 — REMOVE CONCRETE PAVEMENT DRIVEWAY.



DEMOLITION PLAN

SCALE: 1"=30'-0"

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DEMOLITION PLAN

Drawing No: D1

Sheet: 6 OF 28

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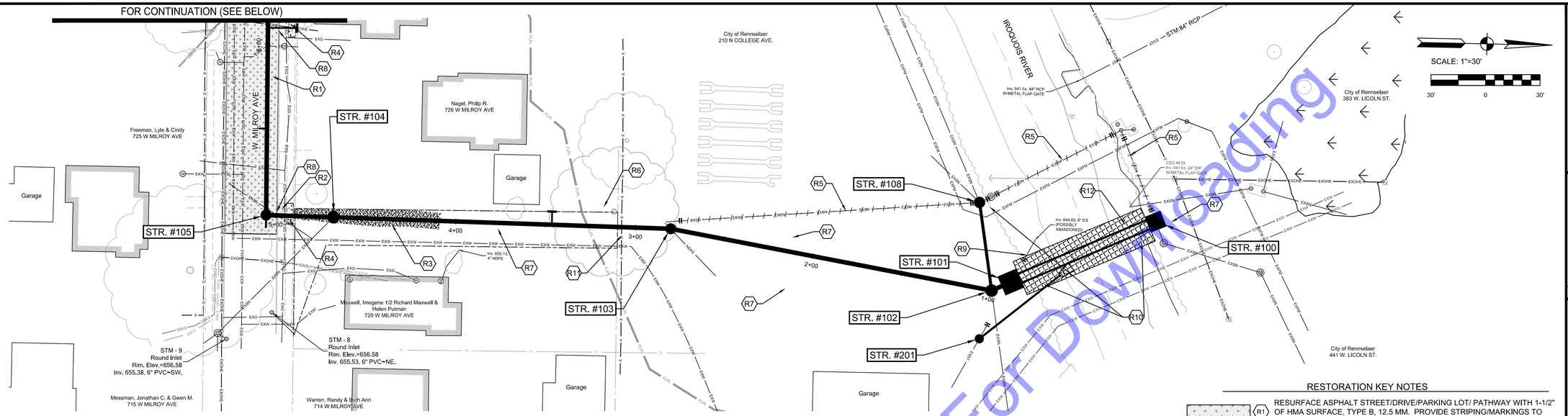
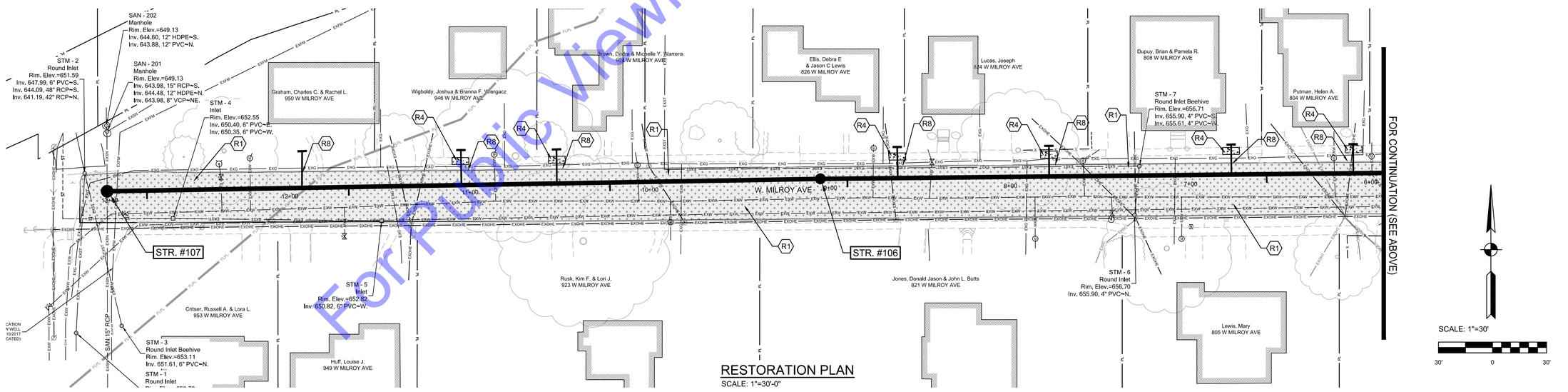


RESTORATION PLAN
SCALE: 1"=30'-0"

RESTORATION KEY NOTES

- R1 — RESURFACE ASPHALT STREET/DRIVE/PARKING LOT/ PATHWAY WITH 1-1/2" OF HMA SURFACE, TYPE B, 12.5 MM. PROVIDE STRIPING/MARKINGS TO MATCH EXISTING WHERE STRIPING/MARKINGS ARE CURRENTLY PROVIDED.
- R2 — REPLACE CONCRETE PAVEMENT DRIVEWAY.
- R3 — RESTORE STONE DRIVE/PARKING AREA.
- R4 — REPLACE CONCRETE WALK TO NEAREST JOINT.
- R5 — PLUG EXISTING SANITARY SEWER PIPE AND FILL WITH FLOWABLE FILL AND ABANDON IN PLACE.
- R6 — REPLACE EXISTING VEGETATION/LANDSCAPING TO EQUAL OR BETTER AS REQUIRED FOR INSTALLATION OF IMPROVEMENTS.
- R7 — CONTRACTOR SHALL PROVIDE FINAL GRADING AND SEEDING FOR ALL GRASSED AREAS DISTURBED DURING CONSTRUCTION TO EQUAL OR BETTER CONDITION AS APPROVED BY OWNER.
- R8 — REPLACE STACK CURB TO NEAREST JOINT.
- R9 — CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV). IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
- R10 — REPLACE EXISTING TREES THAT HAVE BEEN REMOVED. SEE SPECIFICATIONS FOR TREE REMOVAL AND REPLACEMENT REQUIREMENTS.
- R11 — REMOVE AND REINSTALL EXISTING FENCE AS NECESSARY TO COMPLETE WORK. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND TO MATCH EXISTING, AS APPROVED BY OWNER.
- R12 — CONTRACTOR SHALL PROVIDE ARMORFLEX SLOPE STABALIZATION FOR RIVER CROSSING (SEE DETAIL, DWG. MD4).



RESTORATION PLAN
SCALE: 1"=30'-0"

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Signature 4/24/2025 Date

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RESTORATION PLAN

Drawing No: R1
Sheet: 7 OF 28

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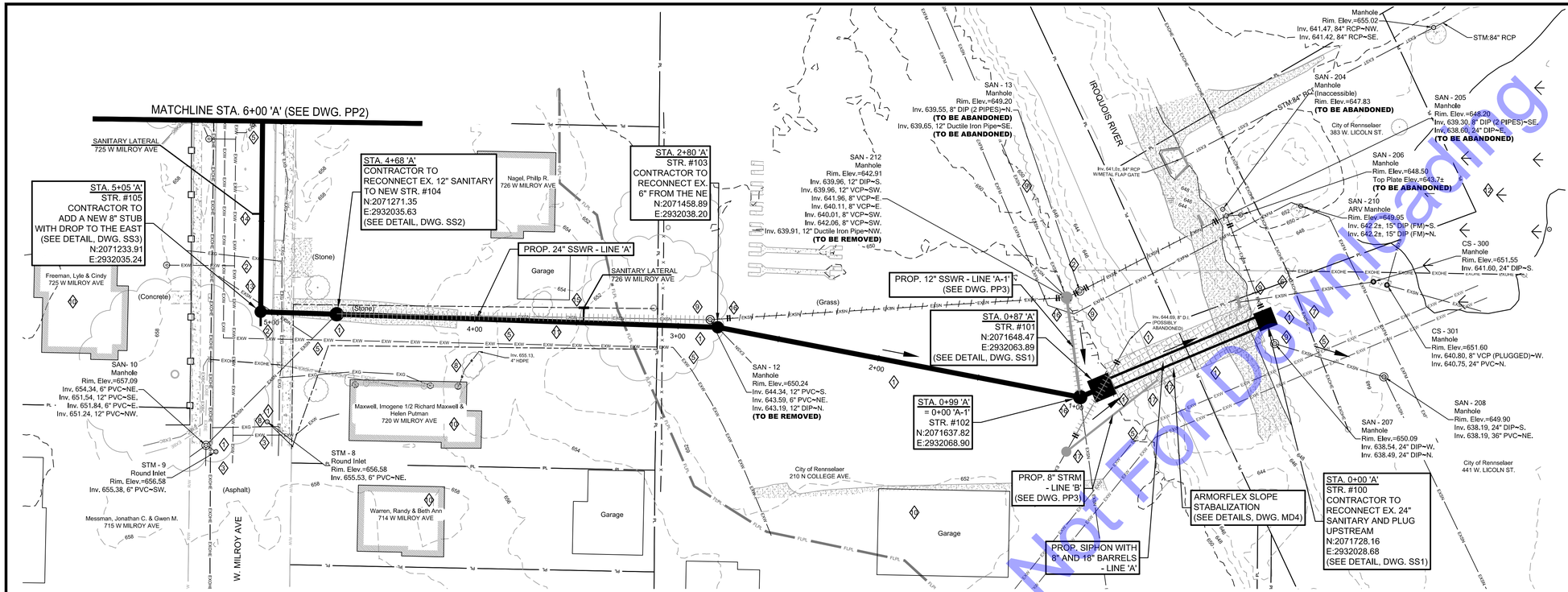
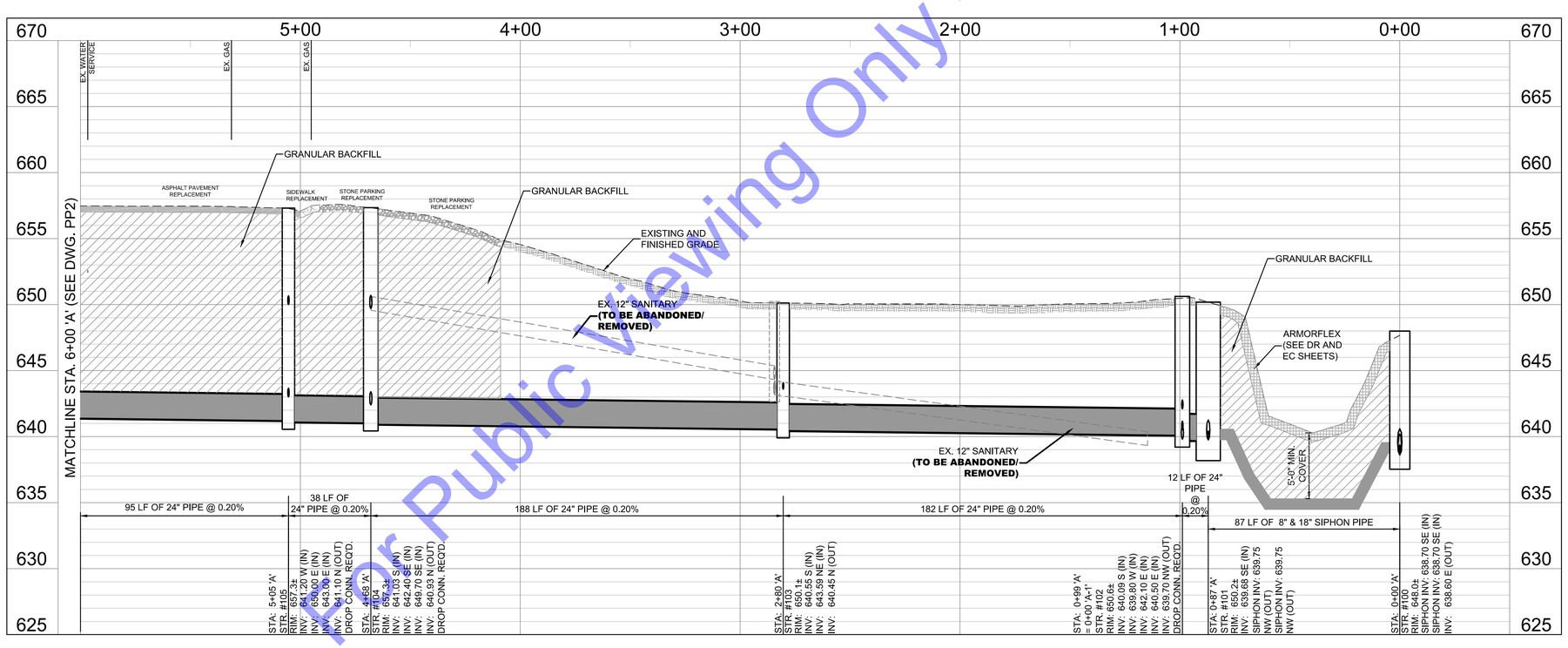


PLAN VIEW
SCALE: 1"=30'-0"



PROFILE - LINE 'A'
HORIZONTAL SCALE: 1"=30'-0"
VERTICAL SCALE: 1"=5'-0"

CODED NOTES

1. SEE EC DRAWINGS FOR EROSION CONTROL MEASURES.
2. CONTRACTOR TO VERIFY EX. UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION, IN THE EVENT OF UTILITY CONFLICTS, CONTRACTOR SHALL NOTIFY UTILITY TO RELOCATE TO AVOID CONFLICTS.
3. CONTRACTOR TO PROTECT ANY EXISTING STORM SEWER AND STRUCTURES AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION, IF ENCOUNTERED AND DISTURBED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER.
4. DAMAGE TO SIGNS TO BE CONTRACTOR RESPONSIBILITY, REMOVAL AND REPLACEMENT OF SIGNS TO BE CONSIDERED INCIDENTAL TO PROJECT.
5. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION ON LINE 'A' AND LINE 'B', MAINTAIN MINIMUM REQUIRED SEPARATION DURING INSTALLATION OF LINE 'A' AND LINE 'B'.
6. CONTRACTOR TO PROTECT ALL UTILITY POLES DURING CONSTRUCTION, COORDINATE WITH ELECTRIC UTILITY SHOULD POLES REQUIRE TEMPORARY SUPPORT.
7. PROTECT ALL OVERHEAD UTILITIES DURING CONSTRUCTION, COORDINATE WITH UTILITY IF TEMPORARY SUPPORTING OF OVERHEAD UTILITY IS REQUIRED TO COMPLETE WORK.
8. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING STORM PRIOR TO CONSTRUCTION ON LINE 'A'. NOTIFY ENGINEER IF CONFLICT.
9. EARLY ACTION:
   CONTRACTOR SHALL CONFIRM INVERTS OF EXISTING SANITARY PRIOR TO CONSTRUCTION. PROVIDE INVERTS TO OWNER/ENGINEER.
10. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING SEWER LATERALS. RECONNECT TO NEW SANITARY SEWER AS NEEDED TO MAINTAIN SERVICE.
11. CONTRACTOR SHALL PROVIDE TEMPORARY EARTH RETENTION SYSTEM DESIGN BETWEEN 3+25 AND 4+50 BASED ON CONTRACTORS PROPOSED MEANS AND METHODS. DESIGN SHALL BE PAID FOR BY CONTRACTOR AND CERTIFIED BY LICENSED IN INDIANA PROFESSIONAL ENGINEER.
12. CONTRACTOR TO AVOID ANY CONSTRUCTION ACTIVITY, ACCESS OR STORAGE IN WETLAND DELINEATED AREAS.
13. EARLY ACTION:
    CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING 10" SANITARY TIE IN LOCATION PRIOR TO CONSTRUCTION. IF EXISTING 10" SANITARY IS IN CONFLICT WITH NEW STR. #105, THEN CONTRACTOR WILL RECONNECT TO NEW STR. #105, NOTIFY ENGINEER OF CONFLICT PRIOR TO RECONNECTION.
14. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. CONTRACTOR TO RECONNECT EXISTING SANITARY SEWER LATERAL TO LINE 'A' WITHIN TRENCH AS NOTED.
15. CONTRACTOR TO CONSTRUCT NEW SANITARY LATERAL TO R/W OR PROPERTY LINE FOR FUTURE CONNECTIONS.
16. CONTRACTOR TO USE BOLT DOWN, WATERPROOF CASTING AND LID IN FLOODWAY. SEE DETAILS, DWG. MD2.
17. EARLY ACTION:
    CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV), IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.

NOTE:
THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED SANITARY SEWER.

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Aaron Burns 4/24/2025
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4/2025	S24051	AS SHOWN

PLAN & PROFILE - LINE 'A' - STATION 0+00-6+00

Drawing No:
PP1
Sheet: 8 OF 28

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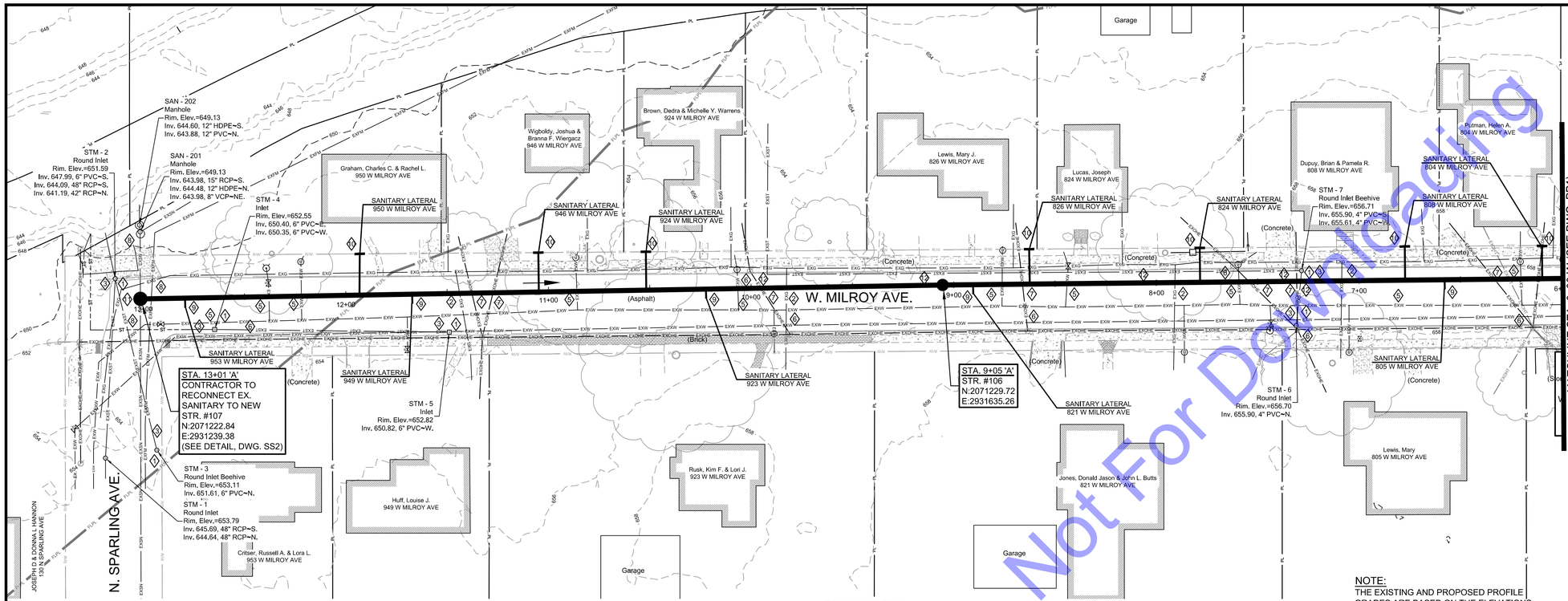

PLAN VIEW

SCALE: 1"=30'-0"

CODED NOTES

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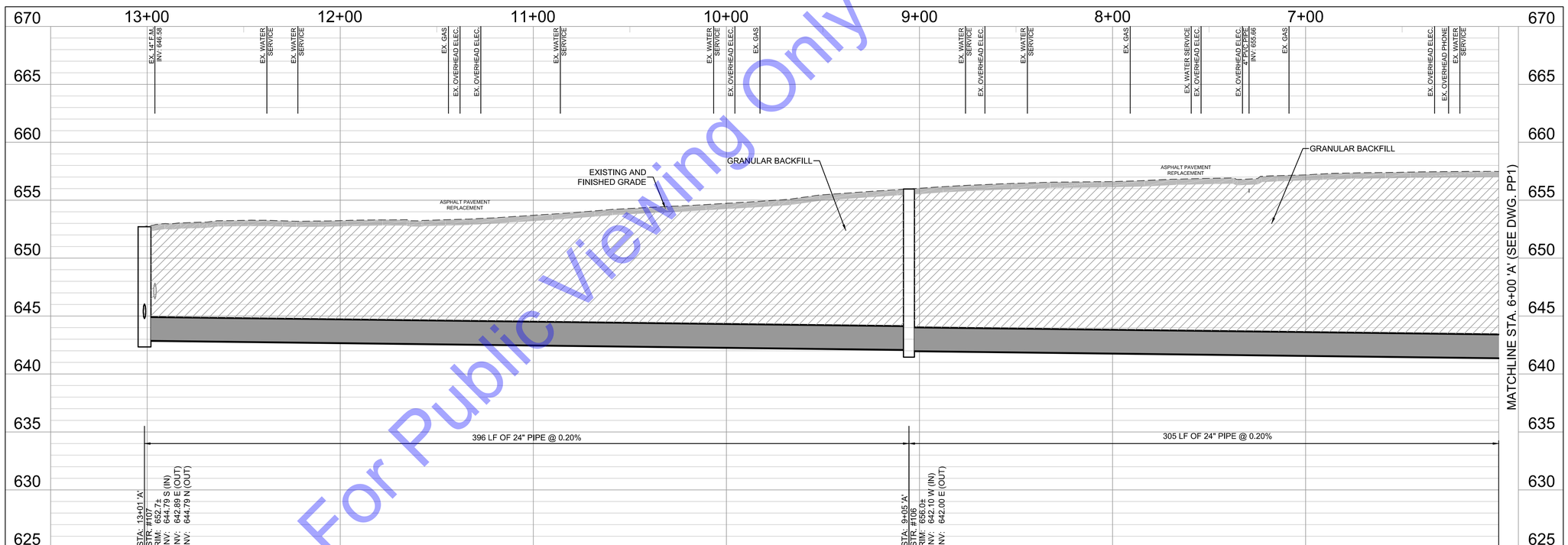
2. CONTRACTOR TO VERIFY EX. UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION, IN THE EVENT OF UTILITY CONFLICTS, CONTRACTOR SHALL NOTIFY UTILITY TO RELOCATE TO AVOID CONFLICTS.
3. CONTRACTOR TO PROTECT ANY EXISTING STORM SEWER AND STRUCTURES AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION. IF ENCOUNTERED AND DISTURBED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER.
4. DAMAGE TO SIGNS TO BE CONTRACTOR RESPONSIBILITY. REMOVAL AND REPLACEMENT OF SIGNS TO BE CONSIDERED INCIDENTAL TO PROJECT.
5. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION ON LINE 'A'. MAINTAIN MINIMUM REQUIRED SEPARATION DURING INSTALLATION OF LINE 'A'.
6. CONTRACTOR TO PROTECT ALL UTILITY POLES DURING CONSTRUCTION. COORDINATE WITH ELECTRIC UTILITY SHOULD POLES REQUIRE TEMPORARY SUPPORT.
7. PROTECT ALL OVERHEAD UTILITIES DURING CONSTRUCTION. COORDINATE WITH UTILITY IF TEMPORARY SUPPORTING OF OVERHEAD UTILITY IS REQUIRED TO COMPLETE WORK.
8. EARLY ACTION:
   CONTRACTOR SHALL CONFIRM INVERTS OF EXISTING SANITARY PRIOR TO CONSTRUCTION. PROVIDE INVERTS TO OWNER/ENGINEER.
9. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. CONTRACTOR TO RECONNECT EXISTING SANITARY SEWER LATERAL TO LINE 'A' WITHIN TRENCH AS NOTED.
10. CONTRACTOR TO CONSTRUCT NEW SANITARY LATERAL TO R/W OR PROPERTY LINE FOR FUTURE CONNECTIONS.
11. CONTRACTOR TO USE BOLT DOWN, WATERPROOF CASTING AND LID IN FLOODWAY. SEE DETAILS, DWG. MD2.
12. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND DEPTH OF EXISTING STORM SEWER PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF CONFLICT WITH NEW SANITARY SEWER.

NOTE:
THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED SANITARY SEWER.

SCALE: 1"=30'

30' 0 30'



PROFILE - LINE 'A'

HORIZONTAL SCALE: 1"=30'-0"
VERTICAL SCALE: 1"=5'-0"

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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

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JASPER COUNTY

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PLAN & PROFILE - LINE 'A' - STATION 6+00-13+01

Drawing No: PP2

Sheet: 9 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\N CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\05 - S24051 - PLAN AND PROFILE.DWG
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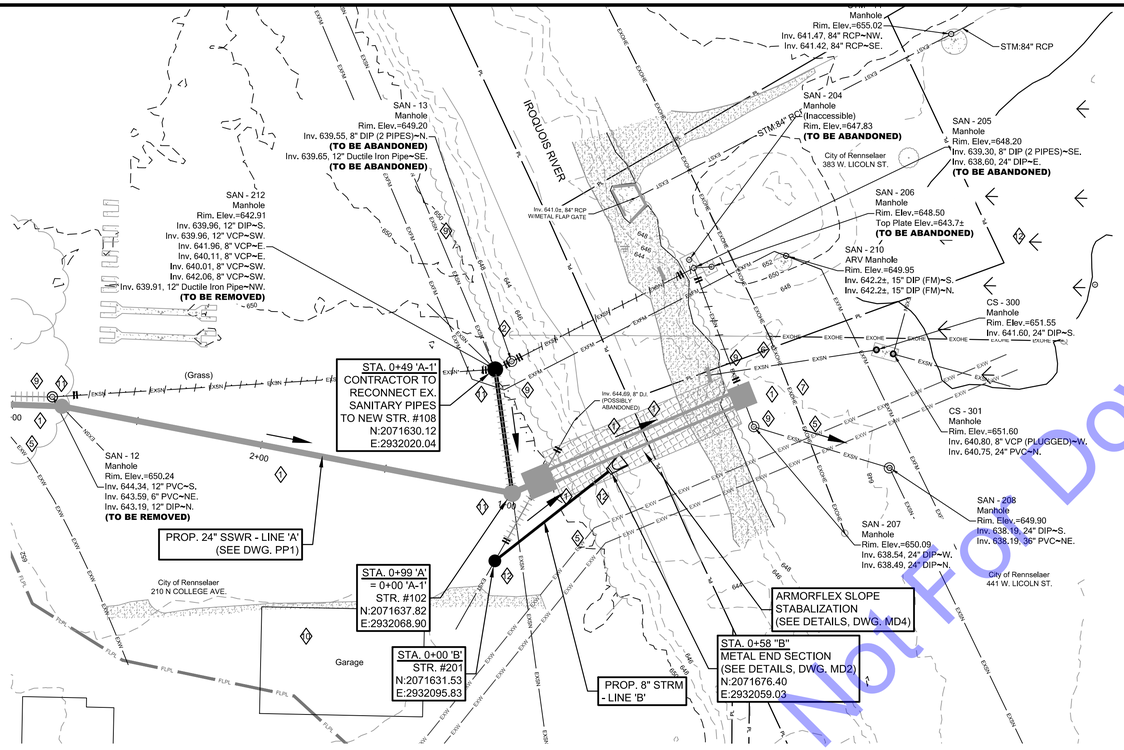
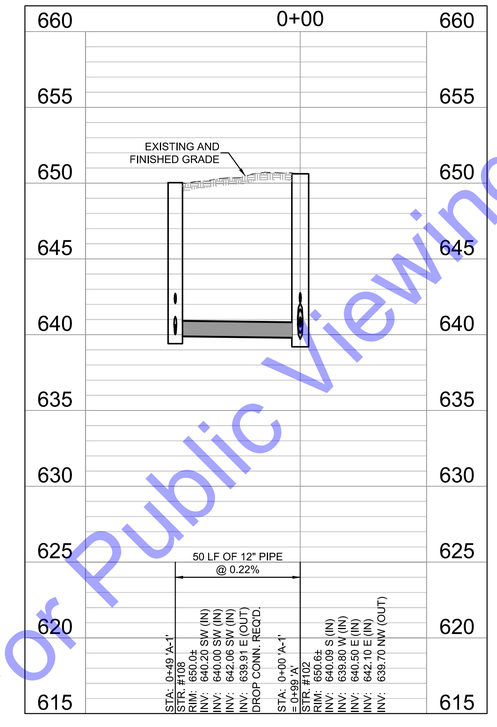


PLAN VIEW

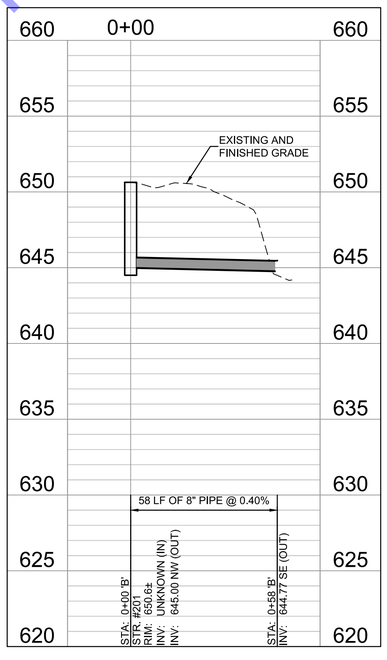
SCALE: 1"=30'-0"



PROFILE - LINE 'A-1'

HORIZONTAL SCALE: 1"=30'-0"

VERTICAL SCALE: 1"=5'-0"



PROFILE - LINE 'B'

HORIZONTAL SCALE: 1"=30'-0"

VERTICAL SCALE: 1"=5'-0"

SCALE: 1"=30'

30' 0 30'

NOTE:
THE EXISTING AND PROPOSED PROFILE GRADES ARE BASED ON THE ELEVATIONS AT THE CENTERLINE OF THE PROPOSED SANITARY SEWER.

CODED NOTES

1. SEE EC DRAWINGS FOR EROSION CONTROL MEASURES.
2. CONTRACTOR TO VERIFY EX. UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. IN THE EVENT OF UTILITY CONFLICTS, CONTRACTOR SHALL NOTIFY UTILITY TO RELOCATE TO AVOID CONFLICTS.
3. CONTRACTOR TO PROTECT ANY EXISTING STORM SEWER AND STRUCTURES AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION. IF ENCOUNTERED AND DISTURBED, CONTRACTOR TO REPLACE TO A CONDITION EQUAL TO OR BETTER.
4. DAMAGE TO SIGNS TO BE CONTRACTOR RESPONSIBILITY. REMOVAL AND REPLACEMENT OF SIGNS TO BE CONSIDERED INCIDENTAL TO PROJECT.
5. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING WATER MAIN PRIOR TO CONSTRUCTION ON LINE 'A' AND LINE 'B'. MAINTAIN MINIMUM REQUIRED SEPARATION DURING INSTALLATION OF LINE 'A' AND LINE 'B',
6. CONTRACTOR TO PROTECT ALL UTILITY POLES DURING CONSTRUCTION. COORDINATE WITH ELECTRIC UTILITY SHOULD POLES REQUIRE TEMPORARY SUPPORT.
7. PROTECT ALL OVERHEAD UTILITIES DURING CONSTRUCTION. COORDINATE WITH UTILITY IF TEMPORARY SUPPORTING OF OVERHEAD UTILITY IS REQUIRED TO COMPLETE WORK.
8. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF EXISTING STORM PRIOR TO CONSTRUCTION ON LINE 'A'. RECONNECT IF NECESSARY.
9. EARLY ACTION:
CONTRACTOR SHALL CONFIRM INVERTS OF EXISTING SANITARY PRIOR TO CONSTRUCTION. PROVIDE INVERTS TO OWNER/ENGINEER.
10. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING SEWER LATERALS. RECONNECT TO NEW SANITARY SEWER AS NEEDED TO MAINTAIN SERVICE.
11. CONTRACTOR TO USE BOLT DOWN, WATERPROOF CASTING AND LID IN FLOODWAY. SEE DETAILS, DWG. MD2.
12. EARLY ACTION:
CONTRACTOR TO VERIFY EXISTING STORM IS ABANDONED. VERIFY VIA VISUAL INSPECTION (CCTV). IF ABANDONED, REMOVE EXISTING STORM SEWER AND DISPOSE OF LAWFULLY. IF ACTIVE, VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER PRIOR TO CONSTRUCTION.

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PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

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PLAN & PROFILE - LINE 'A-1' - STATION 0+00-0+49; LINE 'B' - STATION 0+00-0+58

Drawing No:
PP3
Sheet: 10 OF 28

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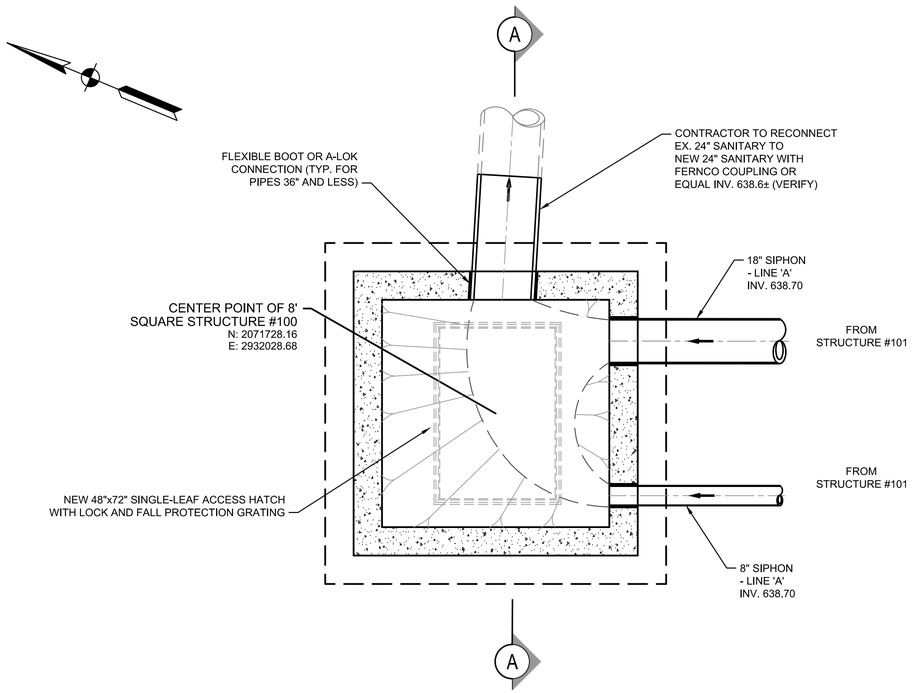
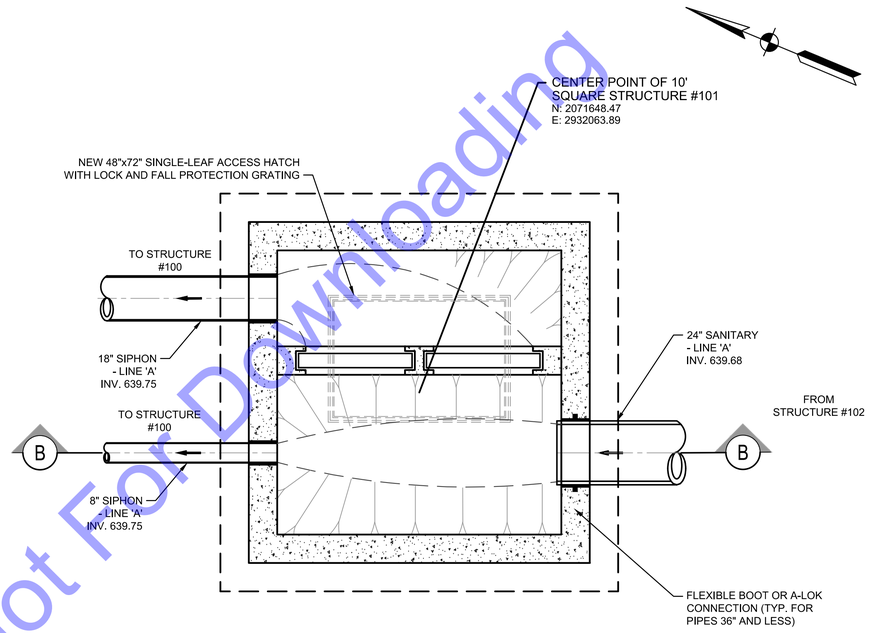


PROP. PLAN VIEW
(SEE DWG. PP1)



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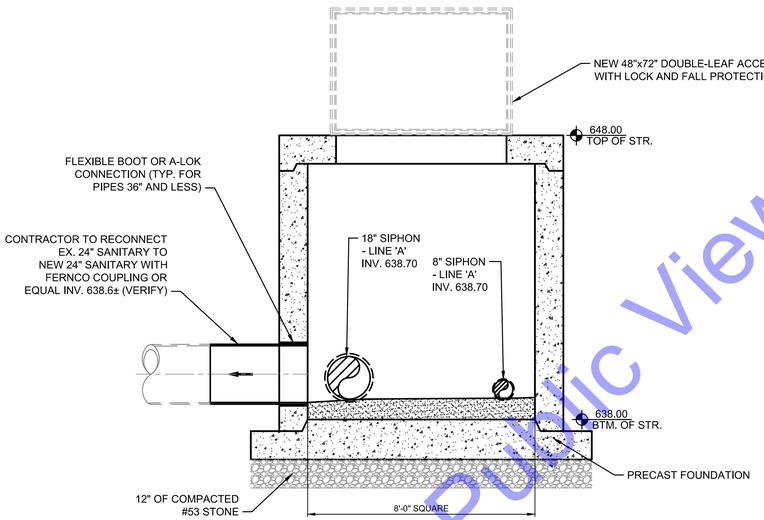
(SEE DWG. PP1)



SECTION A

8' SQUARE STRUCTURE #100
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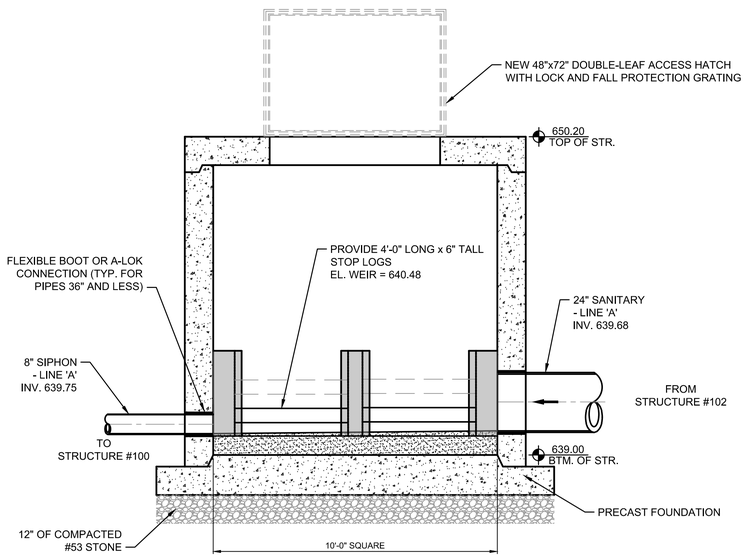

SECTION B

10' SQUARE STRUCTURE #101
SCALE: 3/8"=1'-0"

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STRUCTURE DETAILS - #100 AND #101

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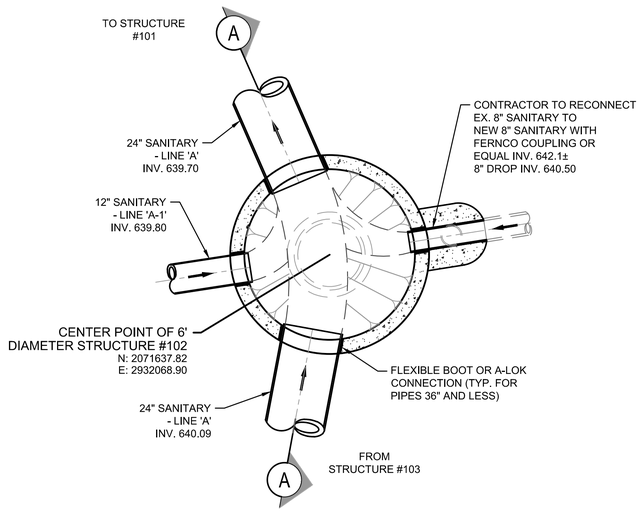
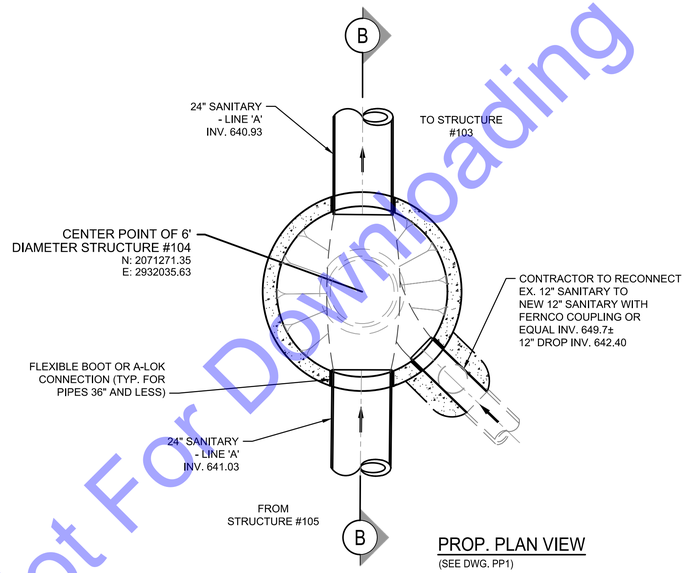


PROP. PLAN VIEW
(SEE DWG. PP1)



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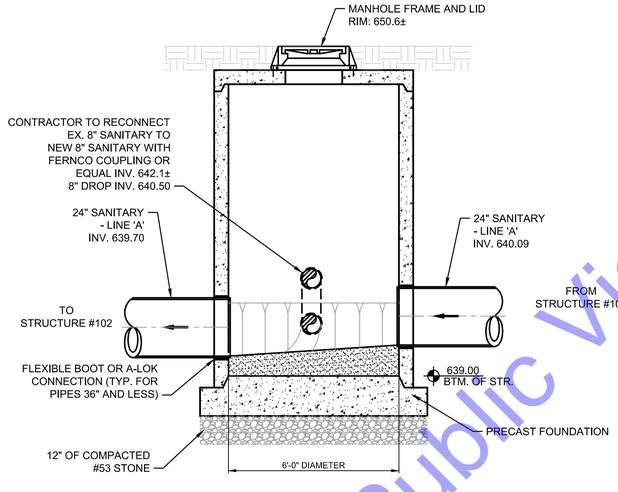
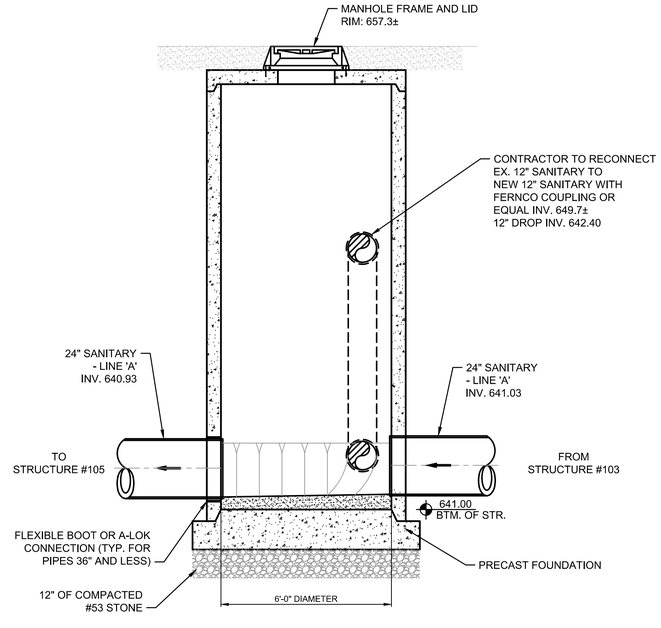


SECTION A

6' DIAMETER STRUCTURE #102
SCALE: 3/8"=1'-0"



SECTION B

6' DIAMETER STRUCTURE #104
SCALE: 3/8"=1'-0"

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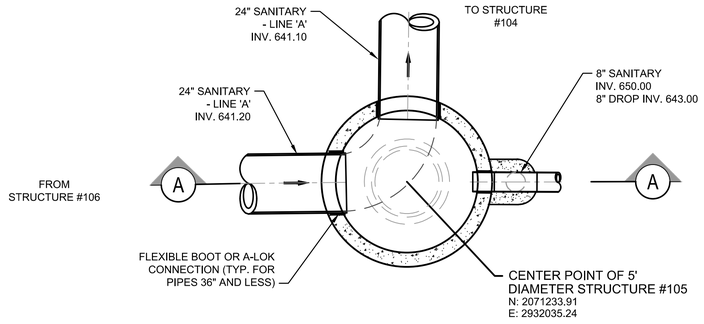
STRUCTURE DETAILS - #102 AND #104

Drawing No:
SS2
Sheet: 12 OF 28



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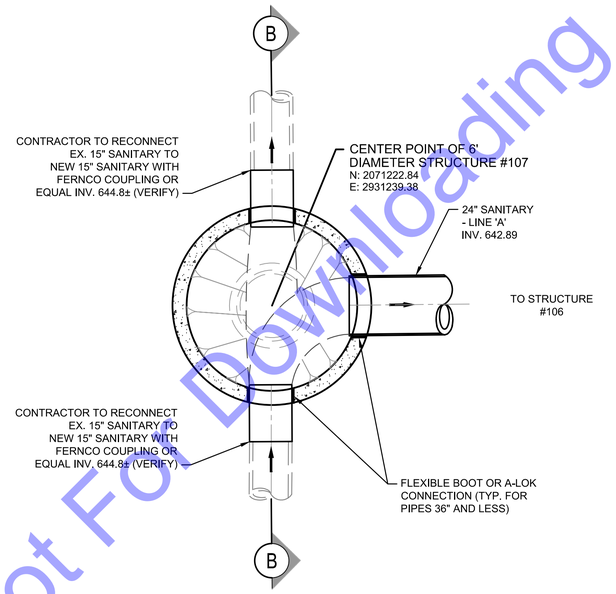
(SEE DWG. PP1)



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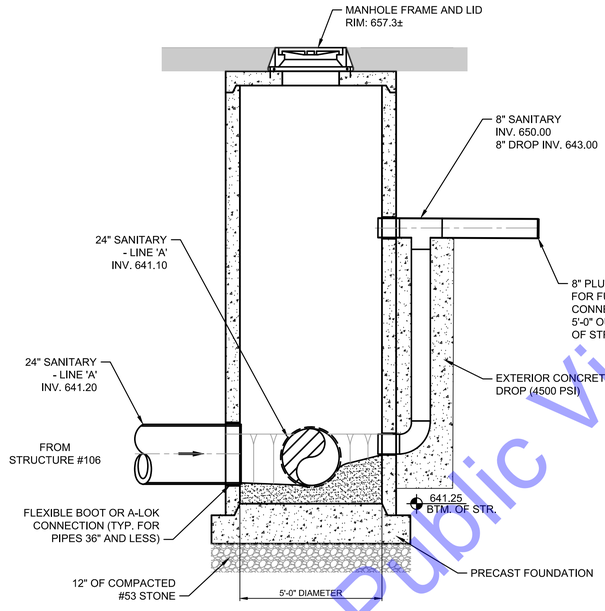
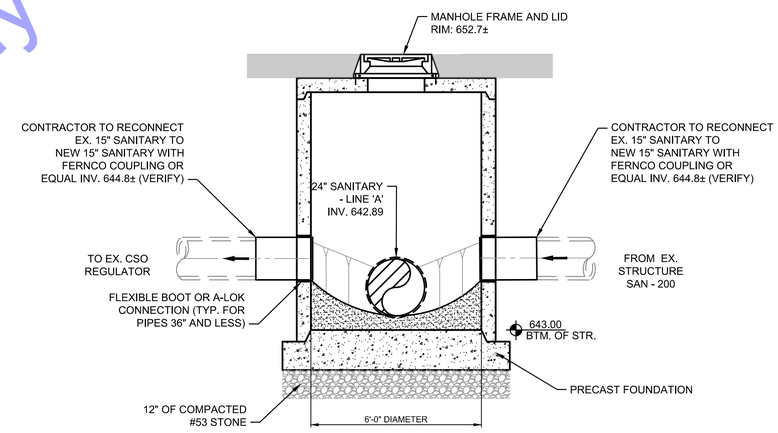
(SEE DWG. PP2)



SECTION A

5' DIAMETER STRUCTURE #105
SCALE: 3/8"=1'-0"



SECTION B

6' DIAMETER STRUCTURE #107
SCALE: 3/8"=1'-0"

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STRUCTURE DETAILS -
#105 AND #107

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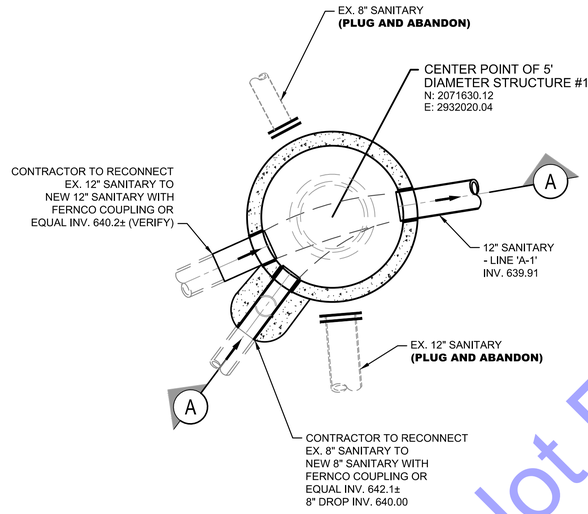

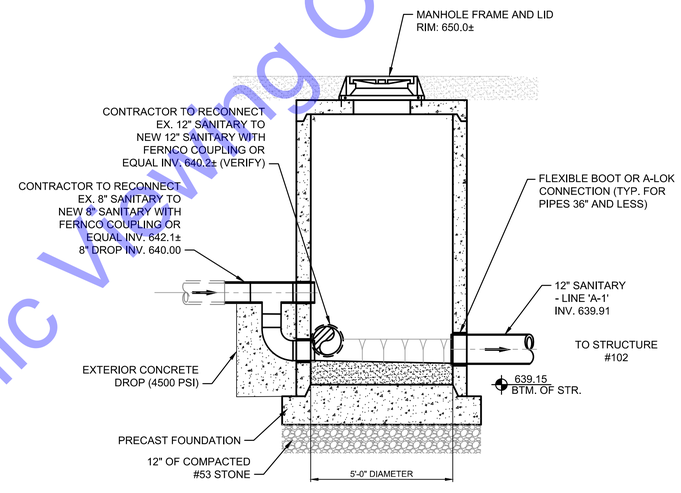

5' DIAMETER STRUCTURE #108

SCALE: 3/8"=1'-0"

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STRUCTURE DETAILS - #108

Drawing No:
SS4

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SAMPLE LINE PLAN - MILROY AVE
SCALE: 1"=30'-0"

MILROY AVENUE
SAMPLE LINE PLAN

Sheet: 15 OF 28
Drawing No: XS1

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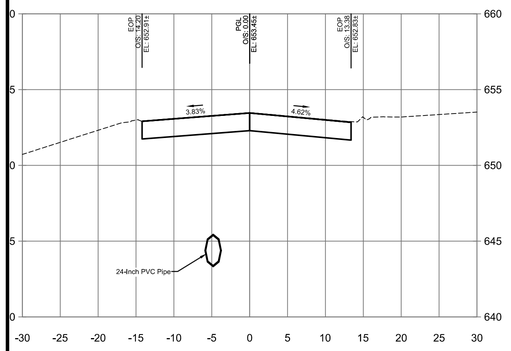

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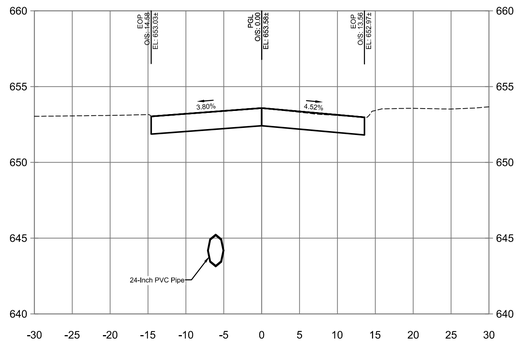

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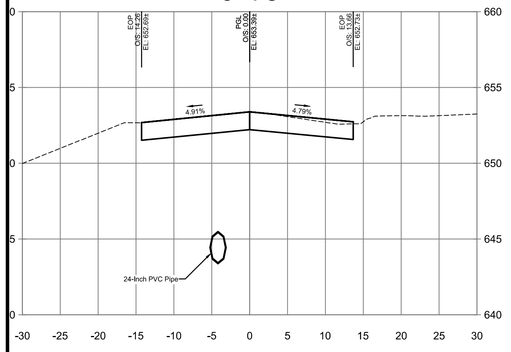

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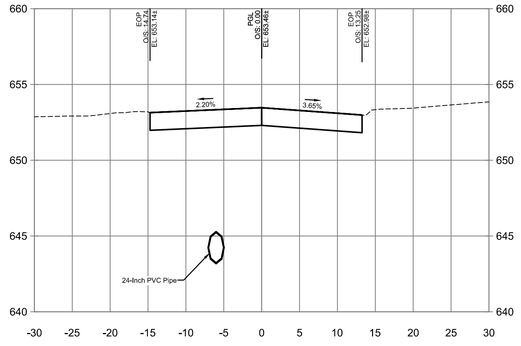

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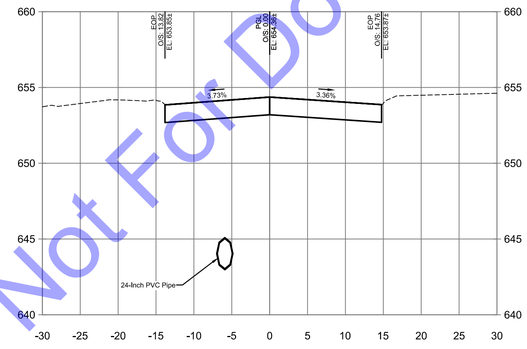

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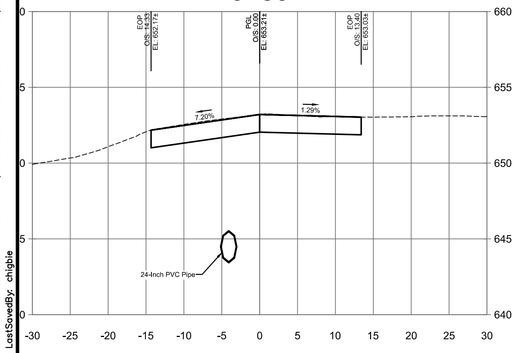

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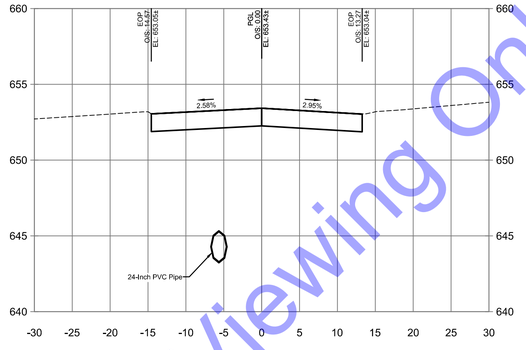

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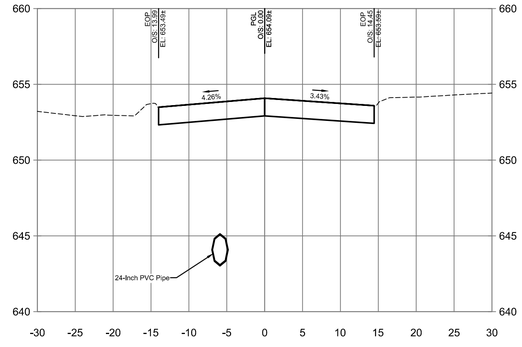

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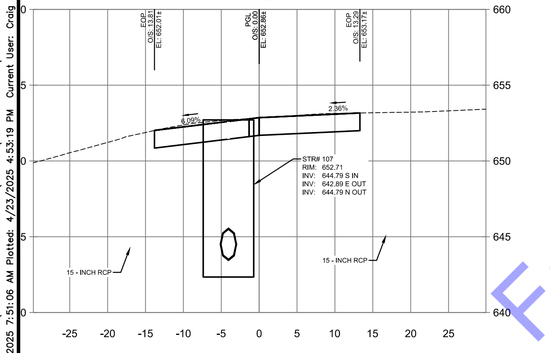

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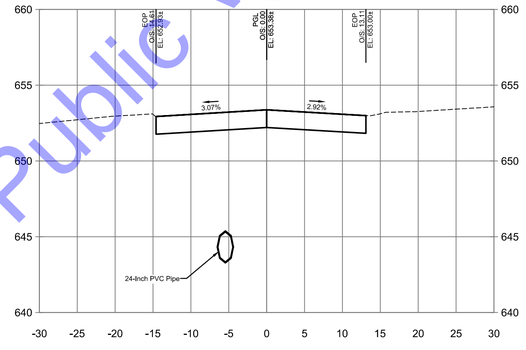

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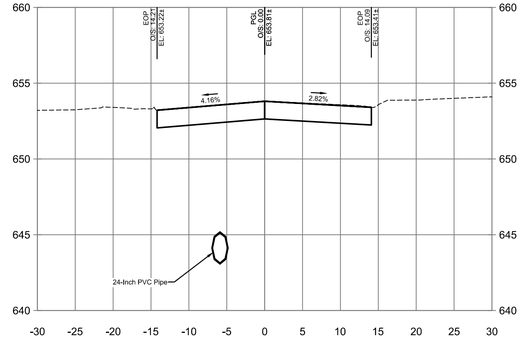

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CROSS SECTIONS - MILROY AVE

SCALE: 1"=10'-0" HORIZONTAL
1"=5'-0" VERTICAL

CROSS SECTION LEGEND
FINISH GRADE
EXISTING GRADE

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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

CITY OF RENSSELAER,
INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
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Issue Date:	Project No:	Scale:
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MILROY AVENUE CROSS SECTIONS

Drawing No:
XS2
Sheet: 16 OF 28

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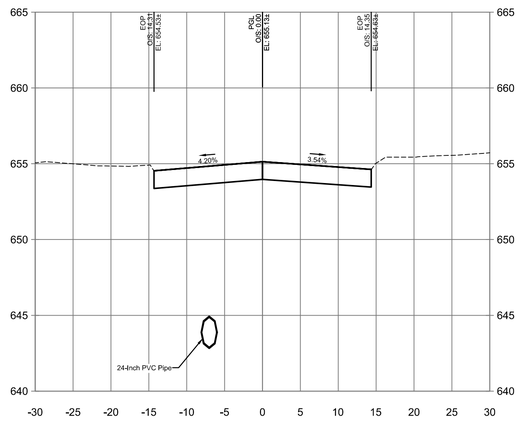

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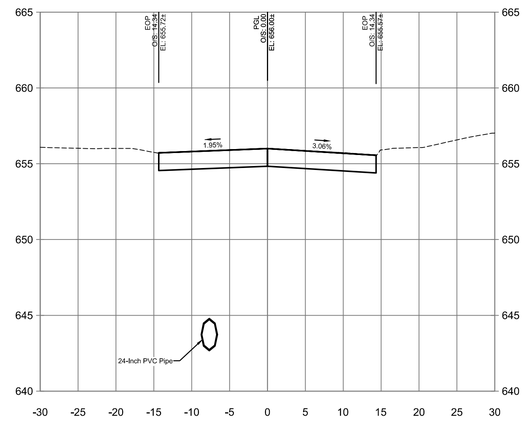

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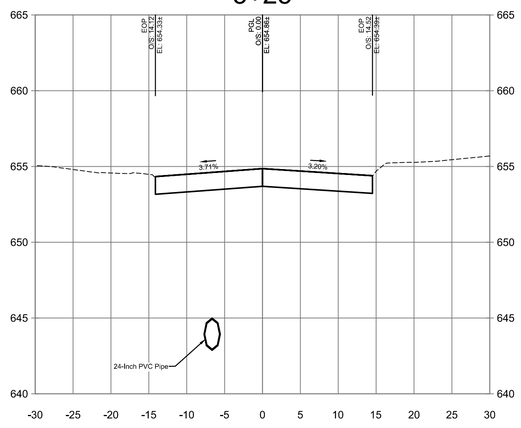

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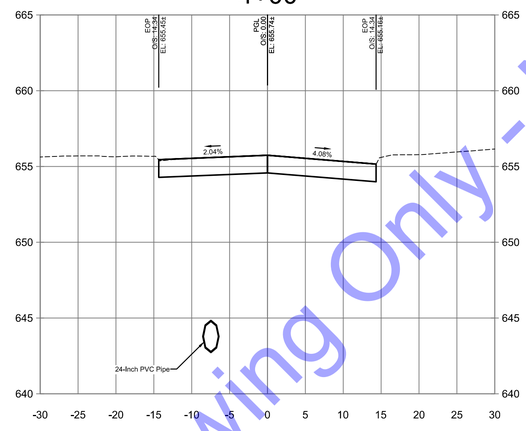

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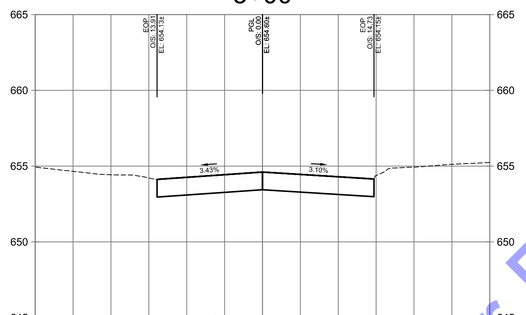

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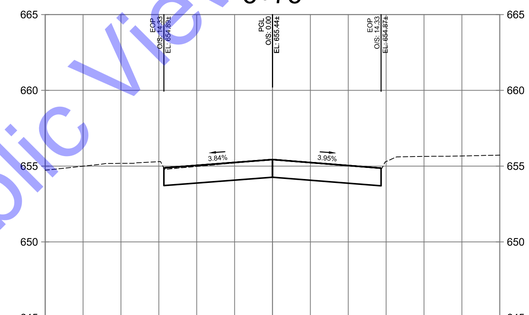

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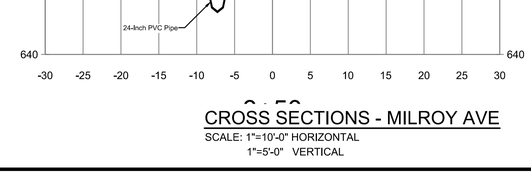

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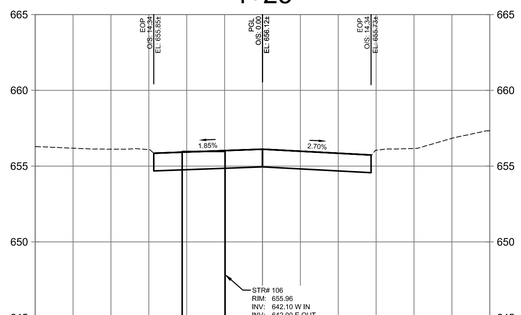

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CROSS SECTIONS - MILROY AVE

SCALE: 1"=10'-0" HORIZONTAL
1"=5'-0" VERTICAL

CROSS SECTION LEGEND
FINISH GRADE
EXISTING GRADE

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MILROY AVENUE CROSS SECTIONS

Drawing No: XS3
Sheet: 17 OF 28

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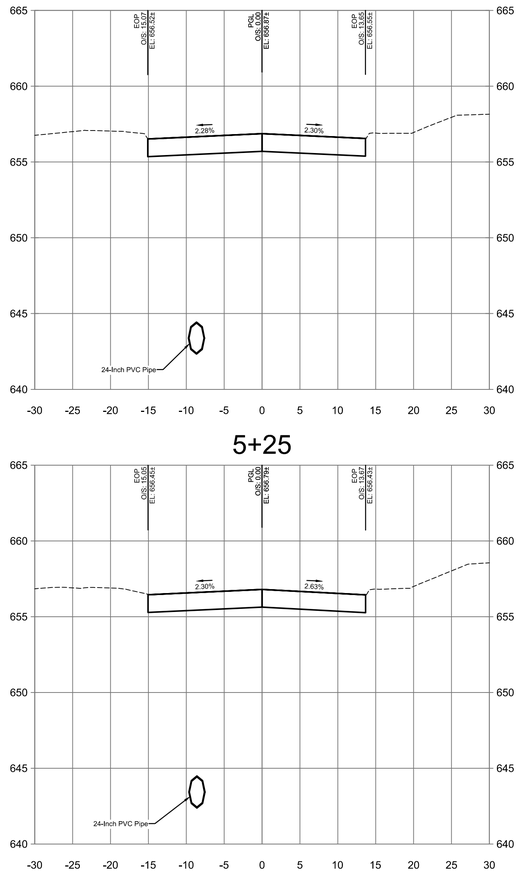

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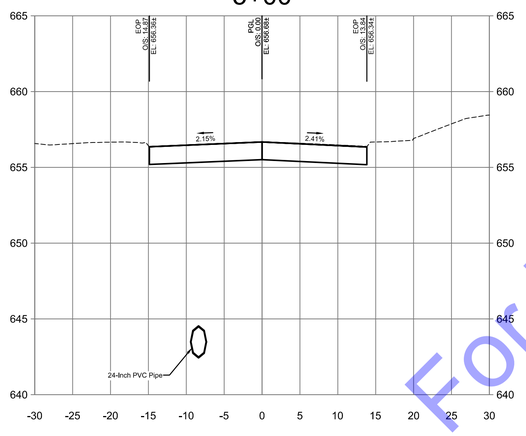

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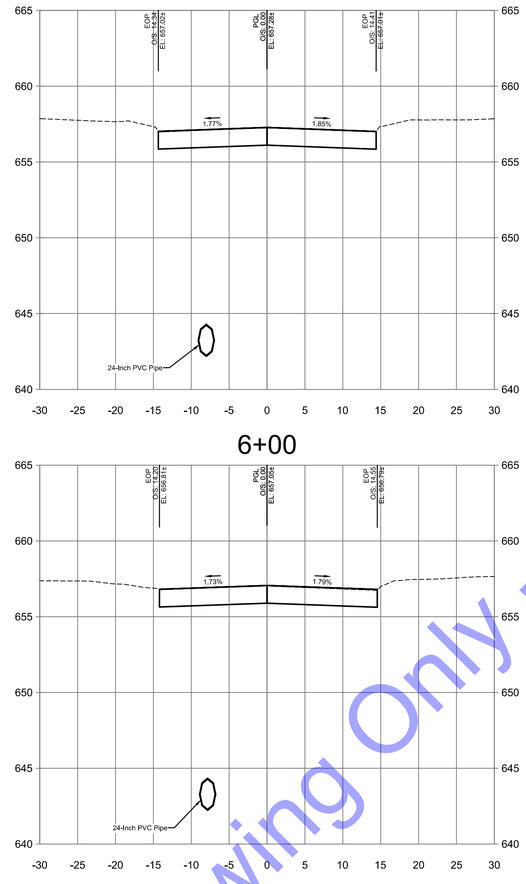

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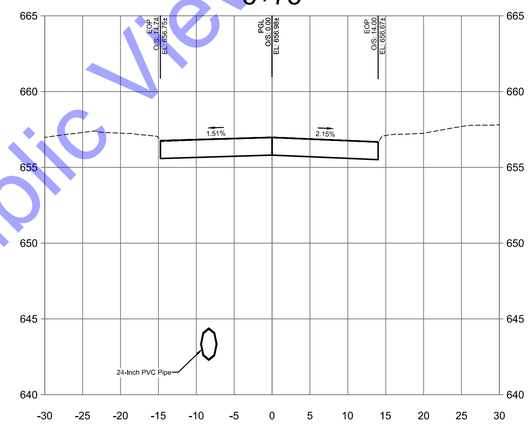

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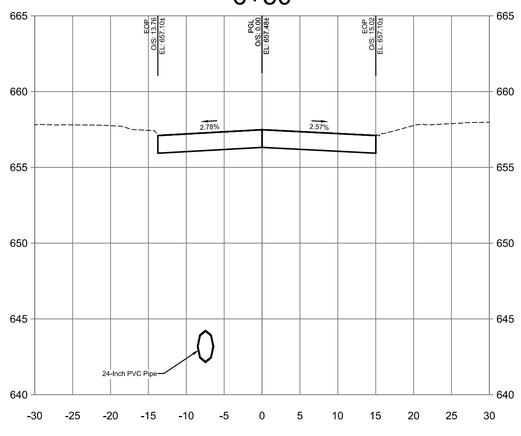

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CROSS SECTIONS - MILROY AVE

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1"=5'-0" VERTICAL

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MILROY AVENUE CROSS SECTIONS

Drawing No:
XS4
Sheet: 18 OF 28

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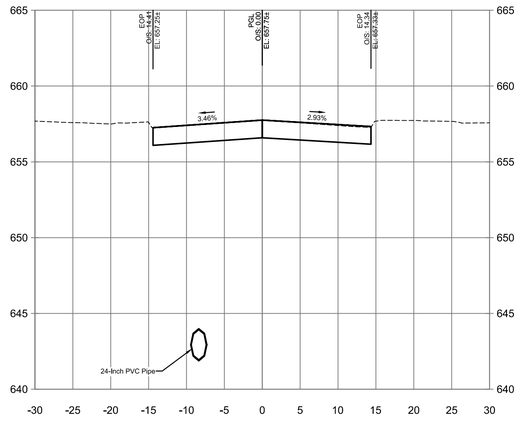

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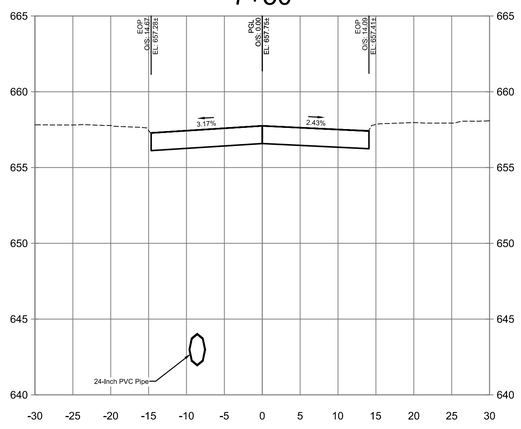

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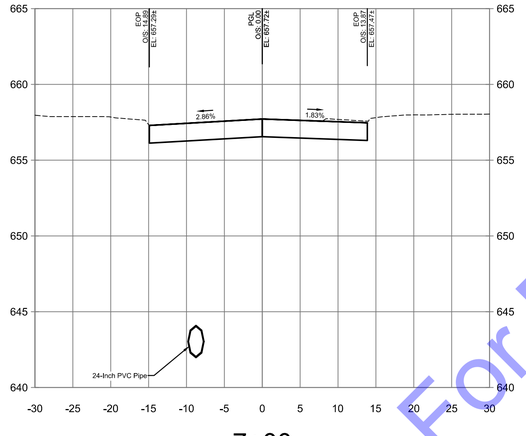

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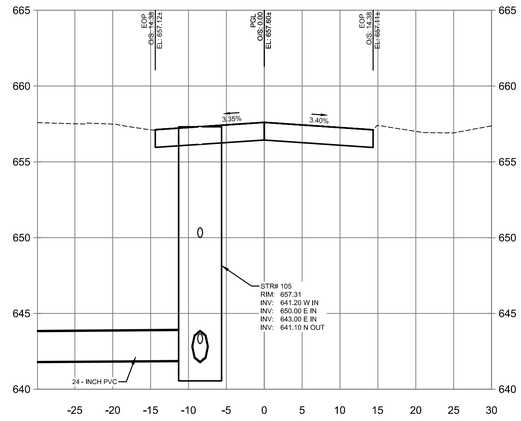

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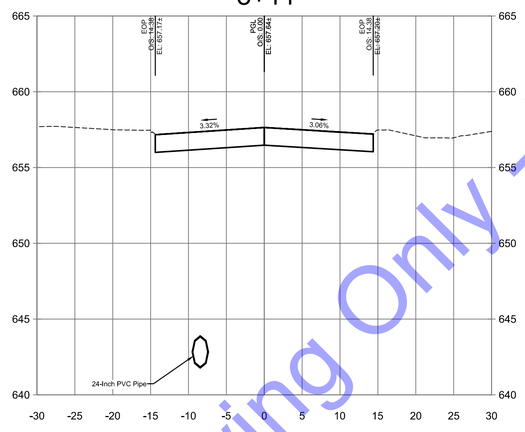

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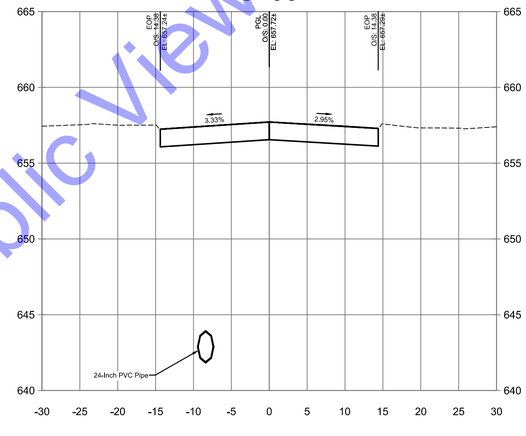

7+75

CROSS SECTIONS - MILROY AVE

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1"=5'-0" VERTICAL

CROSS SECTION LEGEND
FINISH GRADE
EXISTING GRADE

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MILROY AVENUE CROSS SECTIONS

Drawing No:
XS5
Sheet: 19 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\06 - S24051 - CROSS SECTIONS.DWG
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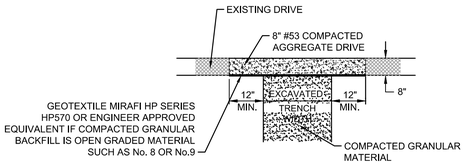
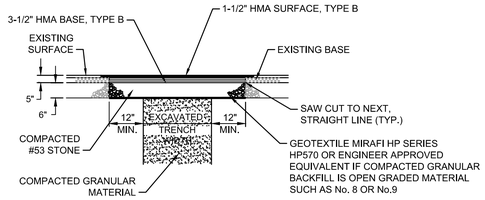
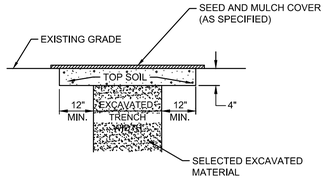


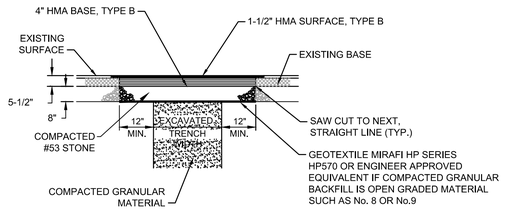
GRAVEL ROAD-DRIVE REPLACEMENT



ASPHALT PAVEMENT-DRIVES AND PARKING AREAS OUTSIDE OF PUBLIC RIGHT-OF-WAY



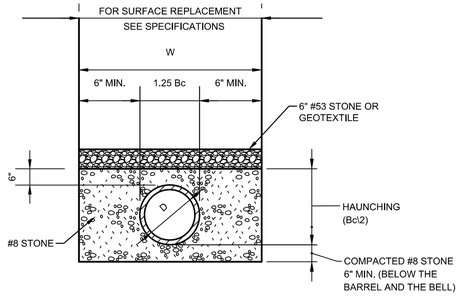
GRASSED AREA



LOCAL ASPHALT PAVEMENTS - ROADS, DRIVES, ALLEYS, AND PARKING AREAS WITHIN PUBLIC RIGHT-OF-WAY

SURFACE REPLACEMENT DETAILS

NO SCALE



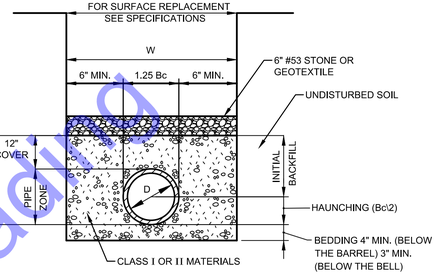
W = MINIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM D2321
D = PIPE DIAMETER (INTERNAL)
Bc = PIPE DIAMETER (EXTERNAL)

NOTES:

1. COMPACTED #8 STONE AND HAUNCHING STOP AT 6 INCHES ABOVE THE TOP OF THE PIPE. BACKFILLING ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS AND AS REQUIRED HEREIN.
2. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. FOR ALL OTHER NON-INDOT PAVEMENT AREAS (INCLUDING BOTH HARD SURFACED AND COMPACTED AGGREGATE), COMPACTED GRANULAR BACKFILL MATERIAL SHALL BE USED WITHIN 5 FEET OF THE EDGE OF THE PAVEMENT.
3. COARSE-GRADED, CRUSHED AGGREGATES UTILIZED FOR PIPE BEDDING, INITIAL BACKFILL, AND TRENCH BACKFILL SHALL BE ENVELOPED IN NON-WOVEN POLYPROPYLENE GEOTEXTILE OR 6" OF INDOT #53 STONE TO PREVENT MIGRATION OF FINER SANDS, AGGREGATES, AND NATIVE SOILS INTO THE COARSER CRUSHED AGGREGATES.

TRENCH DETAIL FOR RIGID CONDUITS

NO SCALE



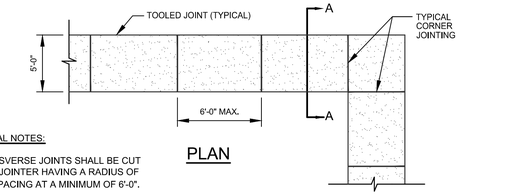
W = MAXIMUM ALLOWABLE TRENCH WIDTH FOR PIPE AS PER ASTM NOT TO EXCEED FOUR (4) FEET FOR 6" THROUGH 24" PIPE NOR SIX (6) FEET FOR 27" THROUGH 48" PIPE
D = PIPE DIAMETER (INTERNAL)
Bc = PIPE DIAMETER (EXTERNAL)

NOTES:

1. COMPACTED INITIAL BACKFILL SHALL EXTEND A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE. FINAL BACKFILL ABOVE THIS POINT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS REQUIRED HEREIN.
2. WHEN CLASS I MATERIAL IS USED FOR BEDDING, HAUNCHING, AND INITIAL BACKFILL COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING, OR BY WALKING TO A MINIMUM OF 85% STANDARD PROCTOR DENSITY.
3. WHEN CLASS II MATERIAL IS USED FOR BEDDING, HAUNCHING, AND INITIAL BACKFILL COMPACTION MAY BE ACCOMPLISHED BY HAND OR MECHANICAL TAMPING TO A MINIMUM OF 85% STANDARD PROCTOR DENSITY.
4. WORK FALLING UNDER THE JURISDICTION OF THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) SHALL UTILIZE COMPACTED GRANULAR BACKFILL MATERIAL FOR INITIAL AND FINAL BACKFILL ANYWHERE WITHIN 12 FEET OF THE EDGE OF PAVEMENT. FOR ALL OTHER NON-INDOT PAVEMENT AREAS (INCLUDING BOTH HARD SURFACED AND COMPACTED AGGREGATE), COMPACTED GRANULAR BACKFILL MATERIAL SHALL BE USED WITHIN 5 FEET OF THE EDGE OF THE PAVEMENT.
5. COARSE-GRADED, CRUSHED AGGREGATES UTILIZED FOR PIPE BEDDING, INITIAL BACKFILL, AND TRENCH BACKFILL SHALL BE ENVELOPED IN NON-WOVEN POLYPROPYLENE GEOTEXTILE OR 6" OF INDOT #53 STONE TO PREVENT MIGRATION OF FINER SANDS, AGGREGATES, AND NATIVE SOILS INTO THE COARSER CRUSHED AGGREGATES.

TRENCH DETAIL FOR FLEXIBLE CONDUITS

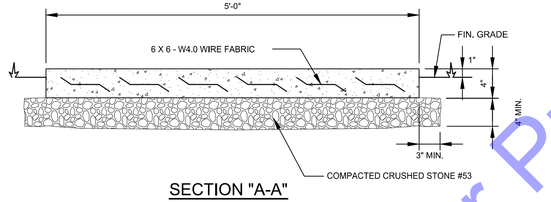
NO SCALE



GENERAL NOTES:

1. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF ¼" AT SPACING AT A MINIMUM OF 6'-0".
2. SIDEWALK SHALL BE 6" WITH 8" OF COMPACTED AGGREGATE No. 53 AT ALL DRIVEWAY CROSSINGS.

PLAN



SECTION "A-A"

CONCRETE SIDEWALK DETAIL

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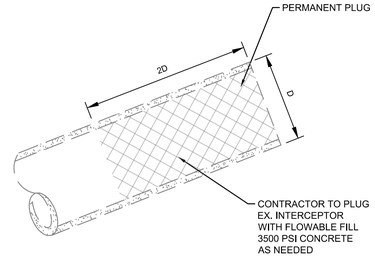

PERMANENT PLUG FOR EXISTING SANITARY

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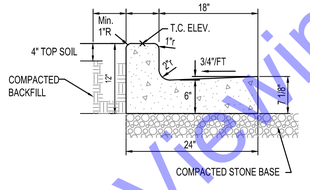

TYPICAL CONCRETE CURB AND GUTTER DETAIL

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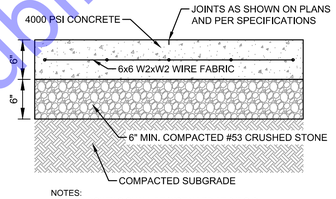
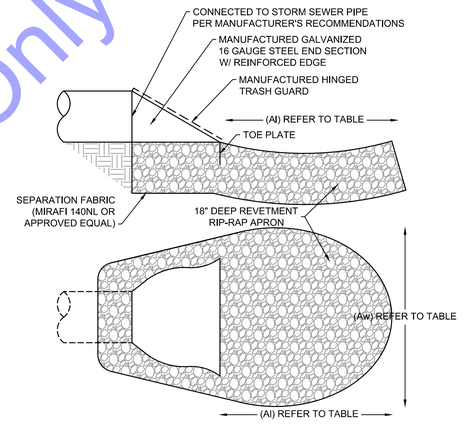


NOTES:
6" LONG DOWELS SHALL BE INSTALLED AT 24" O.C. ALONG ALL CONNECTIONS TO EXISTING CONCRETE.

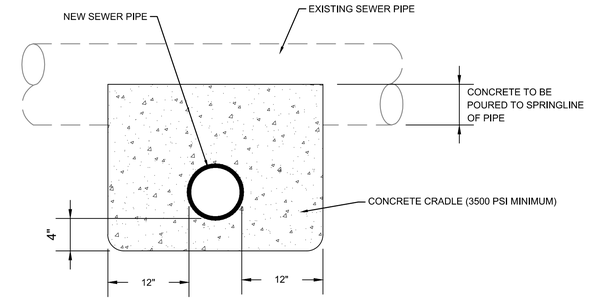
CONCRETE PAVEMENT FOR APPROACHES DETAIL



SIZING FOR FLOW DISSIPATERS AT PIPE OUTLETS			
PIPE SIZE	AVG. RIPRAP DIAMTER	APRON WIDTH (Aw)	APRON LENGTH (AI)
8"	3"	2'-3'	5'-7'
12"	5"	3'-4'	6'-12'
15"	8"	4'-6'	8'-18'
18"	8"	4'-6'	8-'18'
24"	10"	6'-8'	12'-22'
30"	12"	8'-10'	14'-28'
36"	14"	10'-12'	16'-32'

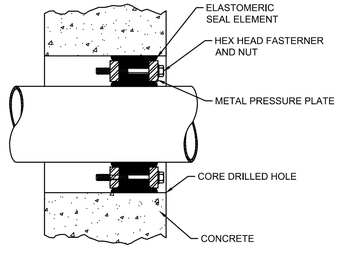
METAL FLARED END AND RIP-RAP DETAIL

NOT TO SCALE



CONCRETE CRADLE DETAIL

NO SCALE



CORE DRILL/WATERTIGHT DETAIL

NO SCALE

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No. 12300838
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PROFESSIONAL ENGINEER
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MISCELLANEOUS DETAILS

Drawing No: MD1

Sheet: 20 OF 28

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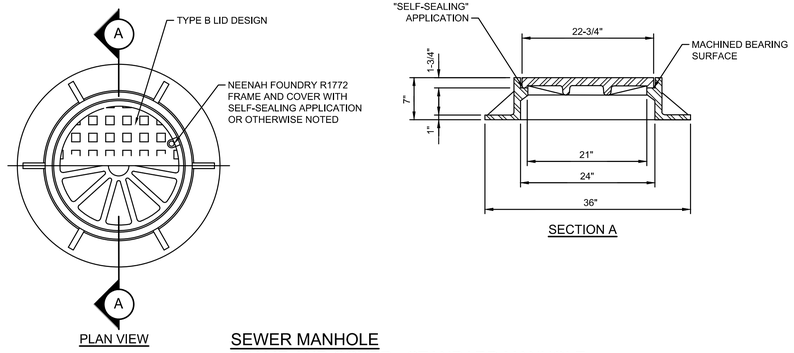
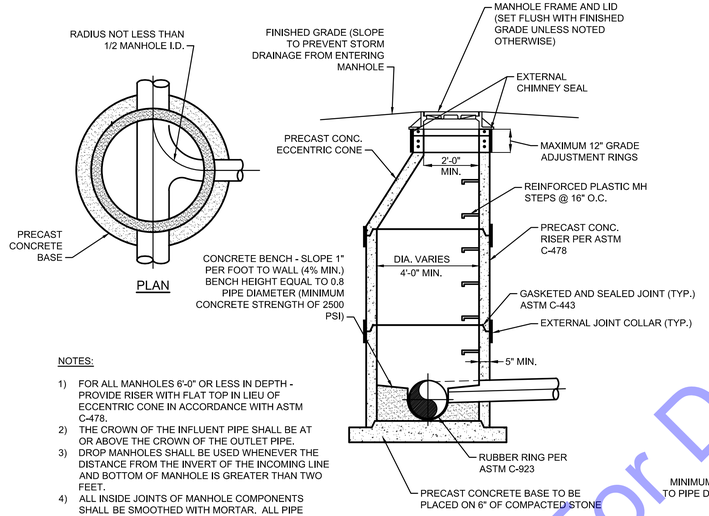


PLAN VIEW

SECTION A

SEWER MANHOLE
FRAME AND COVER - STANDARD MANHOLE

NO SCALE



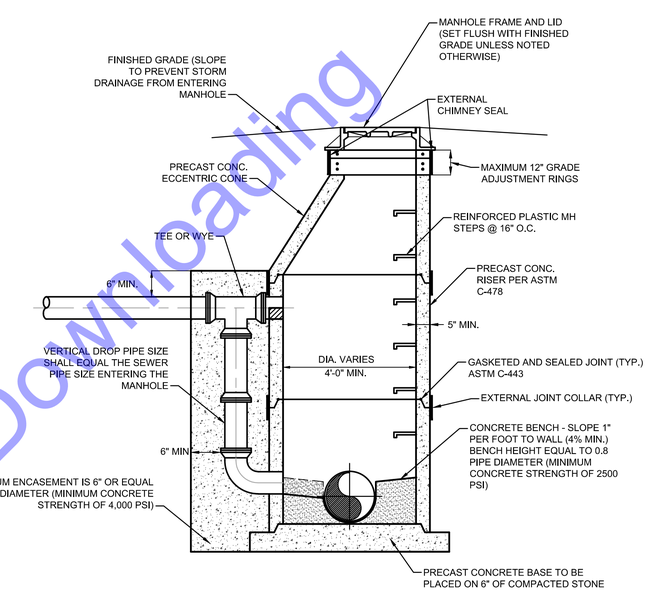
PLAN

NOTES:

1) FOR ALL MANHOLES 6'-0" OR LESS IN DEPTH - PROVIDE RISER WITH FLAT TOP IN LIEU OF ECCENTRIC CONE IN ACCORDANCE WITH ASTM C-478.
2) THE CROWN OF THE INFLUENT PIPE SHALL BE AT OR ABOVE THE CROWN OF THE OUTLET PIPE.
3) DROP MANHOLES SHALL BE USED WHENEVER THE DISTANCE FROM THE INVERT OF THE INCOMING LINE AND BOTTOM OF MANHOLE IS GREATER THAN TWO FEET.
4) ALL INSIDE JOINTS OF MANHOLE COMPONENTS SHALL BE SMOOTHED WITH MORTAR. ALL PIPE PENETRATIONS WITHIN MANHOLE SHALL BE SMOOTHED WITH MORTAR (MORTAR COLLAR).

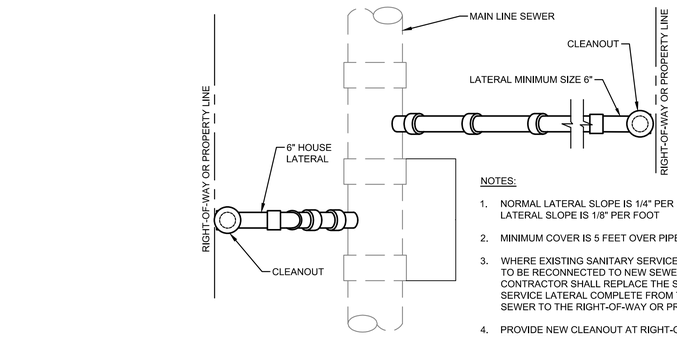
STANDARD MANHOLE DETAIL

NO SCALE



PRECAST DROP MANHOLE DETAIL

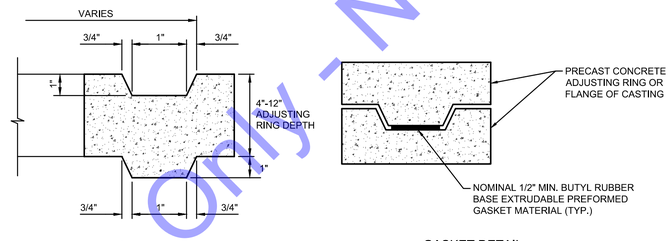
NO SCALE



PLAN VIEW

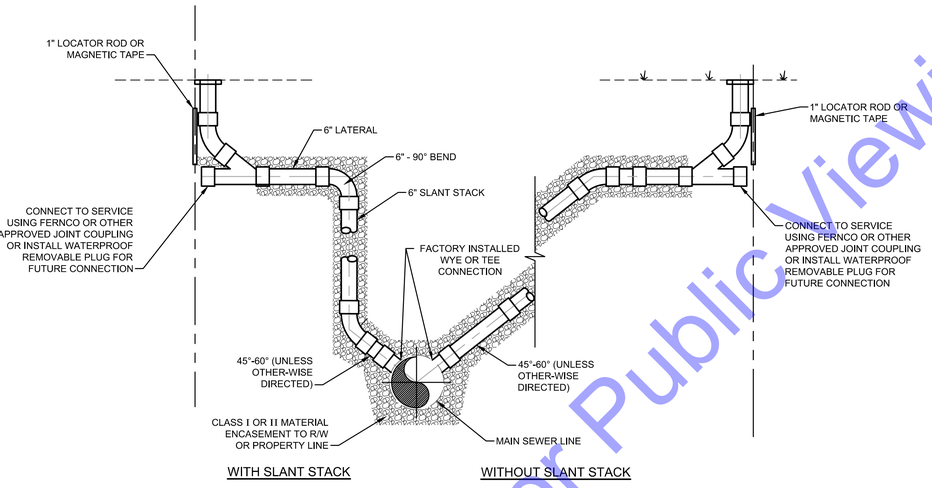
NOTES:

1. NORMAL LATERAL SLOPE IS 1/4" PER FOOT, MINIMUM LATERAL SLOPE IS 1/8" PER FOOT
2. MINIMUM COVER IS 5 FEET OVER PIPE
3. WHERE EXISTING SANITARY SERVICE LATERALS ARE TO BE RECONNECTED TO NEW SEWERS, CONTRACTOR SHALL REPLACE THE SANITARY SERVICE LATERAL COMPLETE FROM THE NEW SEWER TO THE RIGHT-OF-WAY OR PROPERTY LINE.
4. PROVIDE NEW CLEANOUT AT RIGHT-OF-WAY OR PROPERTY LINE FOR ALL SANITARY SERVICE LATERAL CONNECTIONS.



SECTION A

GASKET DETAIL



WITH SLANT STACK

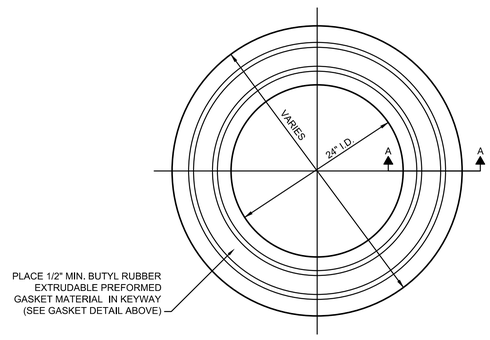
WITHOUT SLANT STACK

ELEVATION

SEWER SERVICE CONNECTION DETAIL

NO SCALE

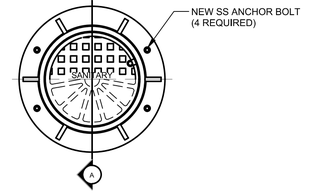
CONTRACTOR SHALL PROVIDE "AS-BUILT" SERVICE CONNECTION TIES TO THE OWNER, ENGINEER, AND PROPERTY OWNER



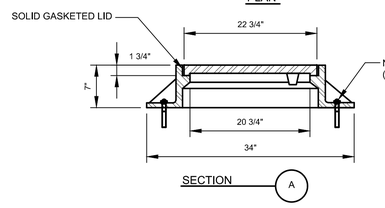
PLAN VIEW

ADJUSTING RING DETAIL

NO SCALE

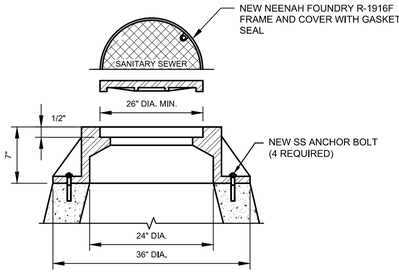


PLAN



BOLTED MANHOLE FRAME
NEENAH FOUNDRY 1772B

NO SCALE



WATERPROOF MANHOLE FRAME & BOLTED LID
NEENAH FOUNDRY R-1916F

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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

CITY OF RENSSELAER,
INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
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Issue Date:	Project No:	Scale:
4/2025	S24051	AS SHOWN

MISCELLANEOUS
DETAILS

Drawing No:
MD2
Sheet: 21 OF 28

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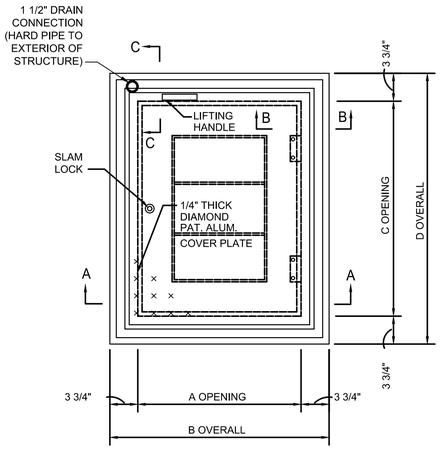
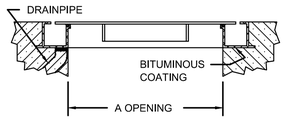
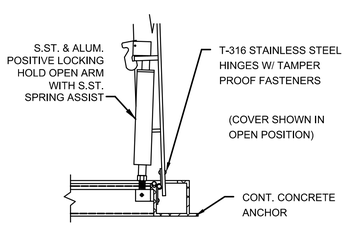


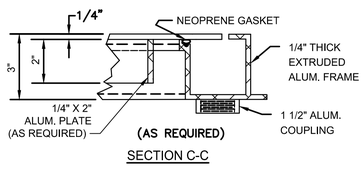
PLAN



SECTION A-A



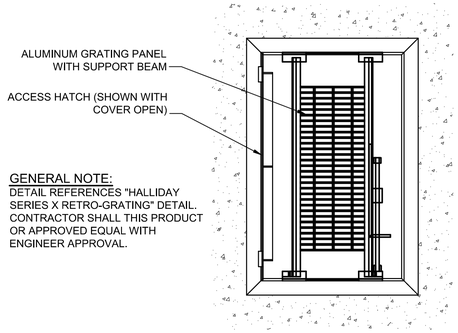
SECTION B-B



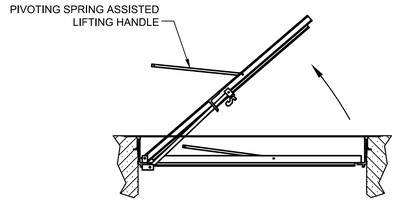
SECTION C-C

NOMINAL OPENING (INCHES)	DIMENSIONS (VARY PER MANUFACTURER)			
	A	B	C	D
72x48	72"	79 1/2"	48"	55 1/2"

TYPICAL SINGLE LEAF ACCESS HATCH DETAIL
NO SCALE

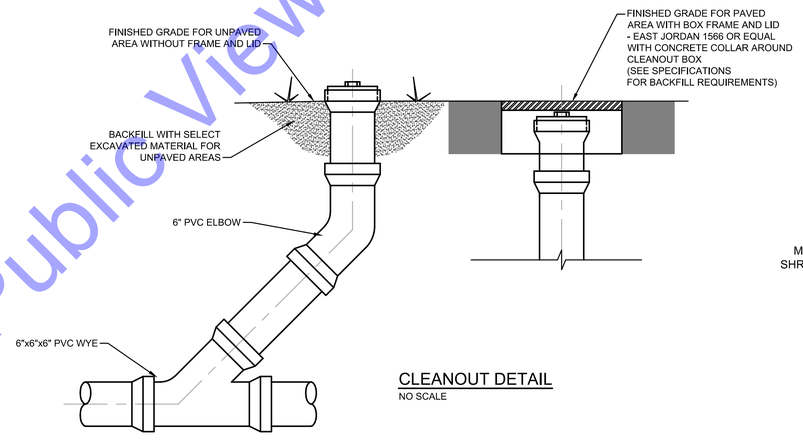


GENERAL NOTE:
DETAIL REFERENCES "HALLIDAY SERIES X RETRO-GRATING" DETAIL. CONTRACTOR SHALL THIS PRODUCT OR APPROVED EQUAL WITH ENGINEER APPROVAL.



GENERAL NOTE:
THE SERIES X RETRO-GRATE IS A HINGED ALUMINUM GRATING PANEL THAT IS EASILY INSTALLED BENEATH EXISTING ACCESS COVERS REGARDLESS OF THE ORIGINAL COVER MANUFACTURER. THE RETRO-GRATE PROVIDES ADDITIONAL PROTECTION AGAINST FALL THROUGH ACCIDENTS WHEN THE COVER IS LEFT IN THE OPEN POSITION. THE UNIT IS LOCKABLE BY AN OWNER SUPPLIED PADLOCK AND INCORPORATES A SPRING ASSISTED LIFTING HANDLE THAT POSITIONS THE HANDLE NEAR THE SLAB LEVEL. THE UNIT IS SUPPLIED WITH T-316 STAINLESS STEEL MOUNTING HARDWARE AND AN AUTOMATIC HOLD OPEN ARM WITH ALUMINUM RELEASE LATCH. THE RETRO-GRATE IS DESIGNED TO BE INSTALLED BY MOUNTING THE SUPPORT BRACKETS TO EITHER THE EXISTING FRAMEWORK OR TO THE CONCRETE SLAB BELOW THE FRAMEWORK.

ACCESS HATCH "FALL PROTECTION GRATING" DETAIL
NO SCALE



CLEANOUT DETAIL
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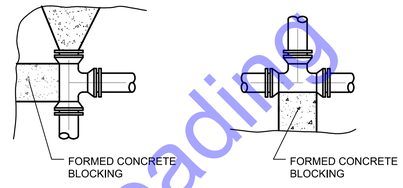
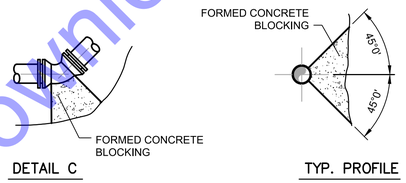


DETAIL A DETAIL B



DETAIL C

TYP. PROFILE

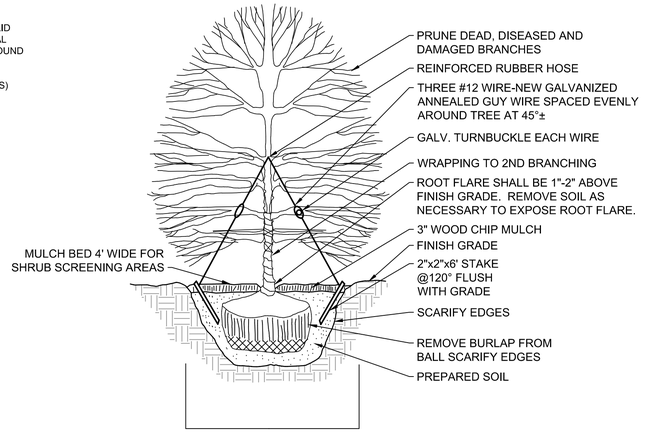
TABLE OF DIMENSION FOR CONCRETE BLOCKING

SIZE	TEE				PLUG					90° BEND				45° BEND				22½° BEND				11¼° BEND			
PIPE	L	T	W	D	L	T	W	D	S	L	T	W	D	L	T	W	D	L	T	W	D	L	T	W	D
4"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	12"	24"	8"	18"	8"	12"	8"	18"	8"	12"	8"	15"	8"	12"	6"
6"	18"	12"	12"	8"	18"	12"	18"	18"	2"	24"	15"	24"	8"	18"	10"	12"	8"	18"	10"	12"	8"	18"	10"	18"	6"
8"	30"	12"	24"	8"	30"	18"	30"	24"	4"	36"	16"	30"	8"	24"	12"	18"	8"	24"	18"	18"	8"	24"	12"	18"	8"
10"	36"	18"	30"	10"	36"	18"	36"	24"	4"	48"	20"	36"	10"	30"	14"	24"	10"	30"	14"	24"	10"	24"	14"	18"	8"
12"	48"	18"	36"	10"	42"	18"	42"	24"	4"	54"	24"	48"	10"	36"	16"	30"	10"	36"	16"	30"	10"	30"	16"	24"	10"
14"	54"	24"	42"	12"	48"	18"	48"	30"	6"	60"	28"	60"	12"	42"	16"	42"	12"	42"	16"	42"	12"	33"	16"	27"	12"
16"	60"	24"	48"	12"	54"	18"	54"	30"	6"	66"	32"	63"	12"	48"	18"	48"	12"	48"	18"	48"	12"	36"	18"	30"	12"
18"	66"	30"	54"	14"	60"	24"	60"	36"	6"	66"	36"	66"	14"	54"	18"	54"	14"	54"	18"	54"	14"	39"	18"	33"	14"
20"	72"	30"	60"	14"	66"	24"	66"	36"	8"	72"	40"	69"	14"	60"	20"	60"	14"	60"	20"	60"	14"	42"	20"	36"	14"
24"	84"	36"	72"	18"	78"	30"	78"	42"	8"	84"	48"	75"	18"	72"	22"	72"	18"	72"	22"	72"	18"	48"	22"	42"	18"

NOTES:

1. FOR TEE WITH BRANCH UNEQUAL TO RUN USE TEE TYPE KICKER WITH D, L, AND W DIMENSIONS THE SAME AS THOSE FOR PLUG WITH SAME DIAMETER AS BRANCH OF TEE. SELECT "T" DIMENSIONS FROM TEE TABLE UNDER COLUMN HEADED BY THE SIZE OF THE BRANCH.
2. IF EXACT SIZE PIPE BLOCKING IS NOT SHOWN USE NEXT LARGER SIZE.
3. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH OR ROCK.
4. CONCRETE BLOCKING SHALL BE CLASS "B".

THRUST BLOCKING DETAIL
SCALE: N.T.S.



TREE/SHRUB PLANTING DETAIL
NO SCALE

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No. 12300838
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MISCELLANEOUS DETAILS

Drawing No: MD3
Sheet: 22 OF 28

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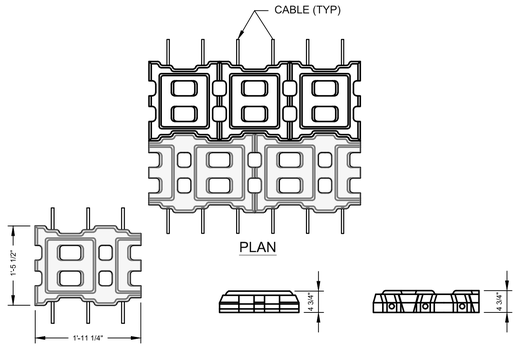

TYP. 40 - 1.5 BLOCK (1)
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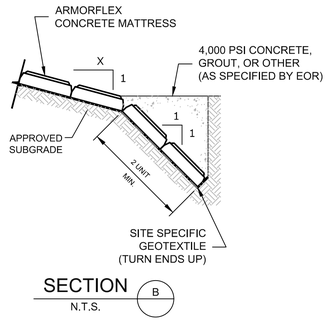

SECTION (B)
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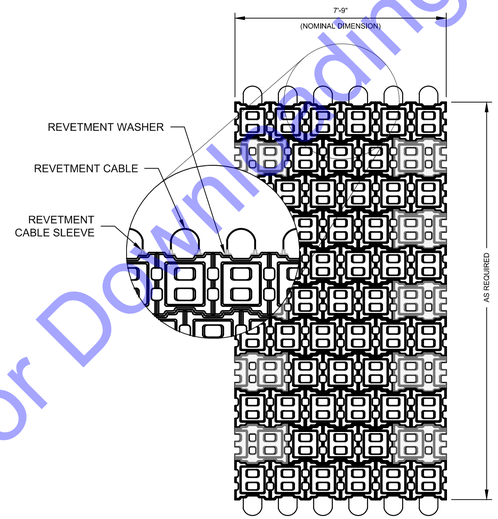

TYP. 40 BLOCK 1.5 MAT (2)
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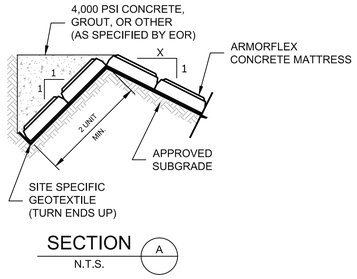

SECTION (A)
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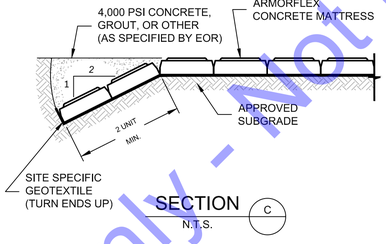

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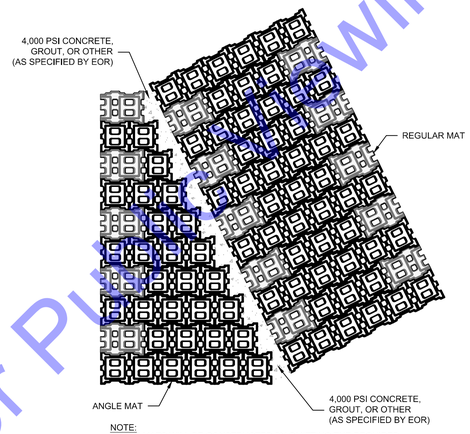
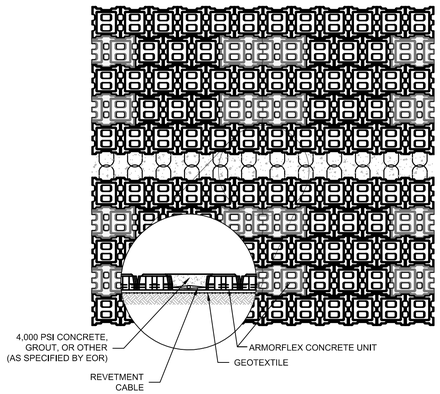


NOTE:
ANGLE MATS WILL BE CONSTRUCTED BY OMITTING THE REQUIRED UNITS SO THE REQUIRED MAT DIMENSIONS CAN BE OBTAINED.

TYP. ANGLE MAT (3)
N.T.S.



TYP. MAT TO MAT (4)
N.T.S.

ARMORFLEX DETAILS
SCALE: NONE

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Signature 4/24/2025 Date

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ARMORFLEX DETAILS

Drawing No:
MD4
Sheet: 23 OF 28

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SCALE: 1"=30'

30' 0 30'

EROSION CONTROL PLAN

SCALE: 1"=30'-0"

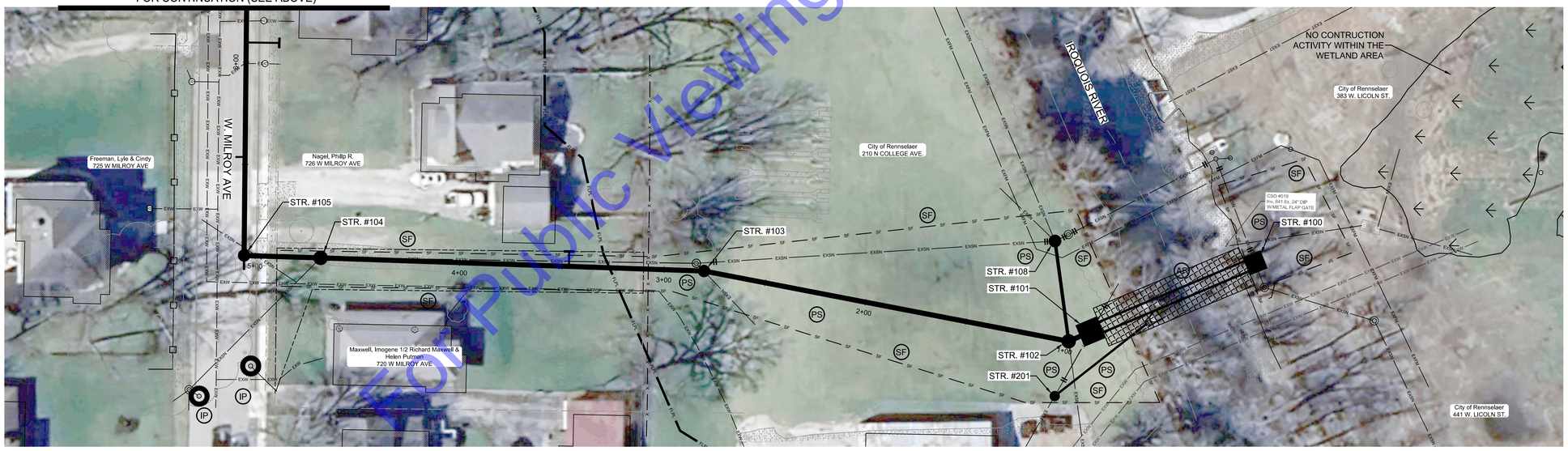
GENERAL NOTES

1. IF CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION CONTROL MEASURES, AS SPECIFIED IN THE DETAILED SPECIFICATIONS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO, CONCRETE WASHING STATIONS, TEMPORARY CONSTRUCTION ENTRANCES, TEMPORARY SEEDING, ETC. AS REQUIRED DURING THE DURATION OF THE PROJECT TO MAINTAIN COMPLIANCE WITH THE RULE 5 PERMIT AND STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF SAID RULE 5 PERMIT, INCLUDING PROVIDING REQUIRED NOTIFICATIONS TO REQUIRED AGENCIES.
2. SEE DWG. EC SHEETS FOR EROSION CONTROL DETAILS.
3. CONTRACTOR SHALL APPLY TEMPORARY AND PERMANENT SEEDING IN THE SEQUENCE SPECIFIED IN THE DETAILED SPECIFICATIONS.
4. CONTRACTOR SHALL PROTECT ALL AREAS WITH SLOPES EXCEEDING 1:4 WITH EROSION CONTROL BLANKETS INSTALLED AND STAPLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL EROSION CONTROL BLANKETS IMMEDIATELY FOLLOWING COMPLETION OF WORK, AFTER TEMPORARY OR PERMANENT SEEDING HAS BEEN COMPLETED.
5. FOR NEW STORM INLETS, CONTRACTOR SHALL INSTALL INLET PROTECTION IMMEDIATELY FOLLOWING INSTALLATION OF INLET AND BACKFILLING.

EROSION CONTROL LEGEND

- SF — SILT FENCE
- EB — EROSION CONTROL BLANKET
- IP — INLET PROTECTION
- PS — PERMANENT SEEDING/MULCHING
- AF — ARMORFLEX

FOR CONTINUATION (SEE ABOVE)



SCALE: 1"=30'

30' 0 30'

EROSION CONTROL PLAN

SCALE: 1"=30'-0"

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EROSION CONTROL PLAN

Drawing No: EC1

Sheet: 24 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\07 - S24051 - EROSION CONTROL.DWG
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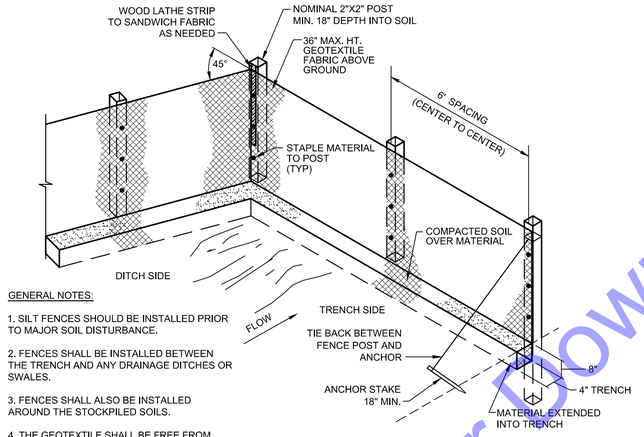
GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
2. THE NOTICE OF INTENT (NOI) AND PUBLIC NOTICE FOR THE PROJECT SHALL BE POSTED ON A SIGN INSTALLED AT OR NEAR THE SITE CONSTRUCTION TRAILER. THE NOI SHALL LIST THE CONTACT INFORMATION FOR THE SITE CONTACT PERSON. THE SIGN AND INFORMATION SHALL BE MAINTAINED AND REMAIN LEGIBLE THROUGHOUT CONSTRUCTION.
3. A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE EROSION AND SEDIMENT CONTROL REPORT SHALL BE AVAILABLE AT THE PROJECT SITE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.
4. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE SO THEY WILL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WIND, STORM WATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED.
5. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEAR OF ACCUMULATED SEDIMENT. ALL SEDIMENT THAT IS CLEARED MUST BE RETURNED TO THE LIKELY POINT OF ORIGIN OR OTHER SUITABLE LOCATION. CLEARING OF LARGE AMOUNTS OF SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER.
6. MINIMIZE THE EXPOSURE OF BARE EARTH BY LIMITING THE WORK AREA TO THAT NECESSARY TO PERFORM THE WORK, AND BY PROPER SCHEDULING OF MANPOWER AND EQUIPMENT.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED, CLEANED, AND MAINTAINED FOLLOWING EACH STORM EVENT.
8. WHEREVER POSSIBLE, MAINTAIN EXISTING VEGETATIVE COVER. USE NON-VEGETATIVE MATERIAL INCLUDING MULCH, EROSION BLANKETS, OR STONE TO CONTROL EROSION FROM DISTURBED AREAS.
9. A LOG SHALL BE MAINTAINED OF ALL INSPECTIONS (WEEKLY, AND FOLLOWING STORM EVENTS), MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL MEASURES. THE LOG SHALL BE MAINTAINED ON SITE AND BE AVAILABLE UPON REQUEST TO THE OWNERS REPRESENTATIVES AND THE OPERATING AUTHORITIES HAVING JURISDICTION OVER THE SITE.



GENERAL NOTES:

1. SILT FENCES SHOULD BE INSTALLED PRIOR TO MAJOR SOIL DISTURBANCE.
2. FENCES SHALL BE INSTALLED BETWEEN THE TRENCH AND ANY DRAINAGE DITCHES OR SWALES.
3. FENCES SHALL ALSO BE INSTALLED AROUND THE STOCKPILED SOILS.
4. THE GEOTEXTILE SHALL BE FREE FROM DEFECTS, TEARS, PUNCTURES, FLAWS, DETERIORATION OR DAMAGE INCURRED DURING MANUFACTURE, TRANSPORTATION, STORAGE, OR INSTALLATION.
5. TIE BACKS SHALL BE PLACED AS REQUIRED.

SILT FENCE
NO SCALE

A. RESIDENTIAL/COMMERCIAL SEED MIXTURE

1. 35 PARTS KENTUCKY BLUEGRASS
2. 30 PARTS PERENNIAL RYE
3. 30 PARTS KENTUCKY FESCUE

B. MULCH

1. GOOD QUALITY DRY STORM
2. WOOD CELTULOSE OR CANE FIBER
3. MANUFACTURED EROSION CONTROL BRACKET NORTH AMERICA GREEN S-75 OR EQUAL

C. FERTILIZER AND LIME

1. AGRICULTURAL HYDRATED LIME
2. FERTILIZER 10-20-10

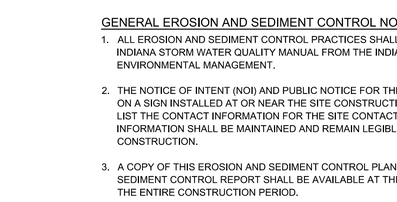
D. ROADSIDE BANK STABILIZATION MIXTURE (INDOT)

1. SEED MIXTURE CV WITH SUPPLEMENTAL
2. COLOR MIX PER INDOT SEED AND SODDING SPECIFICATION (LATEST EDITION)

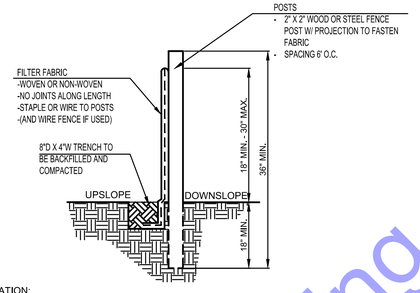
NOTE: SEE DETAILED SPECIFICATION SECTION 12 - FINAL GRADING AND SEEDING FOR INSTALLATION REQUIREMENTS.

FINAL SEEDING AND GRADING

MAINTENANCE:
1. INSPECT DAILY, AND AFTER EACH STORM EVENT OR HEAVY USE.
2. RESHAPE AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOPDRESS WITH CLEAN STONE AS REQUIRED. MAINTAIN MINIMUM DEPTH THROUGHOUT CONSTRUCTION.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY SWEEPING OR BRUSHING. (DO NOT FLUSH AREA WITH WATER UNLESS WATER IS CONVEYED TO SEDIMENT TRAP.)
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.



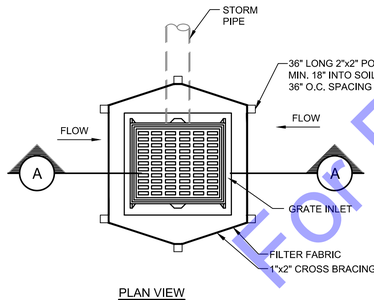
DITCH/SWALE RESTORATION DETAIL
N.T.S.



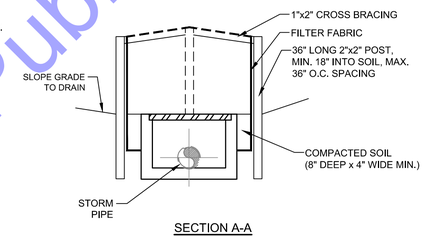
INSTALLATION:
1. THE BOTTOM 1' OF THE FENCE SHALL BE BURIED IN THE TRENCH ON THE UPSLOPE SIDE.
2. FENCE SHALL BE INSTALLED ALONG LEVEL GRADES, NOT ACROSS FLOW CHANNELS.
3. IF OPTIONAL SUPPORT WIRE FENCE IS USED, POST SPACING MAY BE EXTENDED TO 8' O.C.

MAINTENANCE:
1. INSPECT SILT FENCE PERIODICALLY (WEEKLY) AND AFTER EACH STORM EVENT.
2. IF FABRIC IS TORN OR DAMAGED OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE, OR IT IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE NOT TO UNDERMINE THE FENCE DURING SEDIMENT REMOVAL.
5. AFTER THE CONTRIBUTING AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND REMAINING SEDIMENT, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

SILT FENCE SECTION
NO SCALE

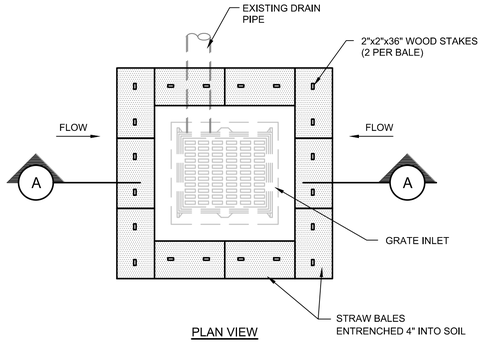


PLAN VIEW

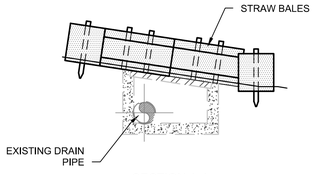


SECTION A-A

STORM INLET WITH SILT FENCE EROSION DETAIL

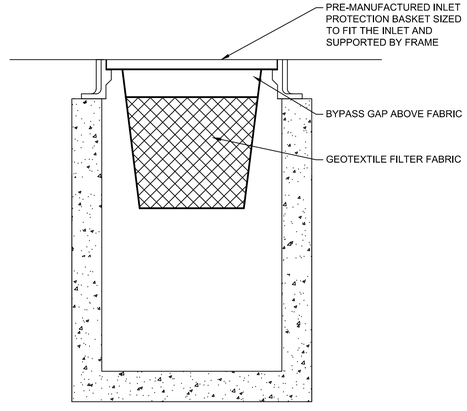


PLAN VIEW

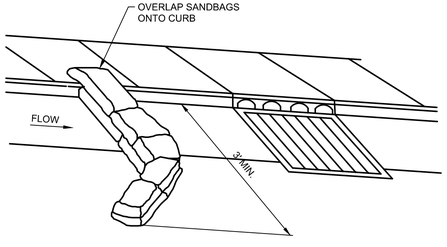


SECTION A-A

STORM INLET IN TURFED AREAS PROTECTION DETAILS
NO SCALE



INSERT (BASKET) INLET PROTECTION
N.T.S.



IN PAVED AREAS

SANDBAG DIVERSION AT CURB INLET
NO SCALE

COMMONWEALTH ENGINEERS, INC.
A wealth of resources to master a common goal.
https://commonwealthengineers.com/

AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER
Signature 4/24/2025 Date

CITY OF RENSSELAER, INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

Know what's below. Call before you dig. 811
Know what's below. 811 before you dig.
1-800-382-5544 (ITS THE LAW)

No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
AB	BW/CH	AR
Issue Date: 4/2025	Project No: S24051	Scale: AS SHOWN

EROSION CONTROL DETAILS

Drawing No: EC2
Sheet: 25 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\VN CLIENTS M-Z\RENSSELAER\D S24051 - LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\07 - S24051 - EROSION CONTROL.DWG
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SECTION A: CONSTRUCTION PLAN _ GENERAL PLAN COMPONENTS

A1 INDEX OF THE LOCATION OF REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN:

This document represents the plan index. The content is organized around the Indiana Department of Environmental Management (IDEM) Construction Stormwater General Guidance Permit Construction / Stormwater Pollution Prevention Plan development guidance. Details are specific to the City of Rensselaer LTCP Phase IIB and III Division B - West Interceptor Improvements Project.

A2 A VICINITY MAP DEPICTING THE PROJECT SITE LOCATION IN RELATIONSHIP TO RECOGNIZABLE LOCAL LANDMARKS, TOWN, AND MAJOR ROADS:

This information has been included and is shown in the plans. Aerial site maps illustrating the approximate extent of the projects are shown in the plans. All construction will take place in existing right of ways, easements, or land owned by the City of Rensselaer.

A3 NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT:

The City of Rensselaer is continuing to complete projects listed in their CSO LTCP. The West Interceptor Improvements Project is included in the CSO LTCP as needed to achieve compliance. This project includes the construction of approximately 1,215 linear feet of gravity sanitary sewer twenty-four (24) inches in diameter, fifty (50) feet of twelve (12) inch diameter gravity sanitary sewer, and eighty-seven (87) linear feet of eight (8) and eighteen (18) inch diameter dual-barrel sanitary siphon piping to be installed using open-cut methods. This project also includes existing sewer connections and the construction of new manhole structures as required for a complete and functioning wastewater collection system.

A4 LATITUDE AND LONGITUDE TO THE NEAREST FIFTEEN (15) SECONDS:

40°56'07'' N and 87°09'30'' W – Approximate center of project

A5 LEGAL DESCRIPTION OF THE PROJECT SITE:

The City of Rensselaer is located in Marion Township, Jasper County, Indiana. The project is located in Sections 30 of Township 29N Range 6W. The approximate latitude and longitude of the center of the project is 40°56'07'' N and 87°09'30'' W

A6 11 x 17-INCH PLAT SHOWING BUILDING LOT NUMBERS / BOUNDARIES AND ROAD LAYOUTS / NAMES:

Refer to the plan sheets for the proposed project.

A7 BOUNDARIES OF THE 100-YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS:

The floodplains, floodway fringes, and floodways located within the project area are shown in Exhibit #1.

A8 LAND USE OF ALL ADJACENT PROPERTIES:

Land use at the project site and the surrounding areas is shown in Exhibit #2. Land use in the project areas and the adjacent properties is entirely low, medium, and high intensity developed land and developed open space.

A9 IDENTIFICATION OF A U.S. EPA APPROVED ESTABLISHED TMDL:

The project area is located within the drainage basin, Moore Ditch-Iroquois River (071200020305).

A10 NAME OF THE RECEIVING WATER:

The receiving water body in the project area is the Iroquois River.

A11 IDENTIFICATION OF DISCHARGES TO A WATER ON THE CURRENT 303(D) LIST OF IMPAIRED WATER AND THE POLLUTANT FOR WHICH IT IS IMPAIRED.

No portions of the streams within the project areas are on the 303(D) list of impaired waters.

A12 SOILS MAP OF THE PREDOMINATE SOIL TYPES:

The soils map for this project is shown in Exhibit #3.

A13 IDENTIFICATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE:

See Exhibit #4.

A14 IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES:

For this project, an IDNR Construction in a Floodway Permit is required as well as an IDEM Permit.

A15 IDENTIFICATION AND DELINEATION OF EXISTING VEGETATIVE COVER, INCLUDING NATURAL BUFFERS:

Land use at the project site and the surrounding areas is shown in Exhibit #2.

A16 EXISTING TOPOGRAPHY SITE TOPOGRAPHY AT AN INTERVAL APPROPRIATE TO SHOW DETAILED DRAINAGE PATTERNS:

Detailed contour lines are shown on the plan sheets to indicate drainage patterns within the construction limits.

A17 LOCATION(S) WHERE RUN-OFF ENTERS THE PROJECT SITE:

Detailed contour lines are shown on the plan sheets to indicate drainage patterns within the construction limits.

A18 LOCATION(S) WHERE RUN-OFF DISCHARGES FROM THE PROJECT SITE PRIOR TO LAND DISTURBANCE:

Detailed contour lines are shown on the plan sheets to indicate drainage patterns within the construction limits.

A19 LOCATIONS OF ALL EXISTING STRUCTURES ON THE PROJECT SITE:

The location of all existing structures within the project site is shown on the plans.

A20 EXISTING PERMANENT RETENTION OR DETENTION FACILITIES, INCLUDING MANMADE WETLANDS, DESIGNED FOR THE PURPOSE OF STORMWATER MANAGEMENT:

There are no manmade retention or detention facilities in the project area.

A21 LOCATION WHERE STORMWATER MAY BE DIRECTLY DISCHARGED INTO GROUND WATER, SUCH AS ABANDONED WELLS, SINKHOLES OR KARST FEATURES:

There are no abandoned wells, sinkholes, or karst features located within the project area.

A22 SIZE OF THE PROJECT AREA EXPRESSED IN ACRES:

The total project area is approximately 1.2 acres.

A23 TOTAL EXPECTED LAND DISTURBANCE EXPRESSED IN ACRES:

The total expected land disturbance for the project is approximately 1.2 acres.

A24 PROPOSED FINAL TOPOGRAPHY:

The plan sheets show proposed site topography and drainage patterns.

A25 LOCATIONS AND APPROXIMATELY BOUNDARIES OF ALL DISTURBED AREAS:

The plans show the locations and boundaries of all disturbed areas / construction limits.

A26 LOCATIONS, SIZE, AND DIMENSIONS OF ALL STORMWATER DRAINAGE SYSTEMS SUCH AS CULVERTS, STORMWATER SEWER AND CONVEYANCE CHANNEL:

The existing stormwater drainage systems are shown on the plans. All existing stormwater systems will be protected and maintained during construction. If during construction any damage is done to an existing stormwater system, damaged structures will be either repaired or placed to equal or better condition than existing.

A27 LOCATIONS OF SPECIFIC POINTS WHERE STORMWATER AND NON-STORMWATER DISCHARGES WILL LEAVE THE PROJECT SITE:

Locations where stormwater and non-stormwater discharges will leave the project site can be seen on the plans.

A28 LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING ROADS, UTILITIES, LOT DELINEATION AND IDENTIFICATION, PROPOSED STRUCTURES, AND COMMON AREAS:

Location of all proposed site improvement, including proposed utilities, structures, and lot boundaries, are shown on the plans. No off-site construction is anticipated for this project.

A29 LOCATIONS OF ALL ON-SITE AND OFF-SITE SOIL STOCKPILES AND BORROW AREAS:

Stockpiles left inactive for seven (7) days or more shall be stabilized with temporary seed and surrounded by silt fence or other perimeter controls. All stockpiles and borrow areas, if required for the project will be located on-site and the contractor will be required to obtain a permit or release for proper disposal of excavated materials.

A30 CONSTRUCTION SUPPORT ACTIVITIES THAT ARE EXPECTED TO BE PART OF THE PROJECT:

Staging areas, material storage, and concrete washout areas are shown on the plans.

A31 LOCATION OF ANY IN-STREAM ACTIVITIES THAT ARE PLANNED FOR THE PROJECT INCLUDING, BUT NOT LIMITED TO, STREAM CROSSINGS AND PUMP AROUNDS:

There will be in-stream activity for this project as the proposed siphon extends across the Iroquois River.

SECTION B: STORMWATER POLLUTION PREVENTION PLAN – CONSTRUCTION COMPONENTS

Stormwater Pollution Prevention Measures shall be in accordance with the local regulatory authority and the applicable MS4 Stormwater Quality Standards.

B1 DESCRIPTION OF THE POTENTIAL POLLUTANT GENERATING SOURCES AND POLLUTANTS, INCLUDING ALL POTENTIAL NON-STORMWATER DISCHARGES:

Description of Potential Pollutant Sources
POTENTIAL POLLUTANT LIST: sediment from exposed soil, paints and coatings, fuel, diesel fuel, equipment lubricating oil, grease, and concrete.

1. The excavation and clearing activities may allow sediment to enter the storm water runoff. The construction activities include site grading, general excavation, trench excavation, aggregate backfilling, pipe installation, and concrete placement. Runoff from these activities is generally controlled by perimeter storm water quality controls and stabilization techniques.
2. Large machinery used for construction is a potential source of pollutants due to the possibility of leaking fuels, miscellaneous lubricating oils, grease, and antifreeze. The equipment is usually parked in a central location and serviced at that location by a service truck each morning prior to start up. The machinery is greased and checked daily prior to use. Activities to minimize the likelihood of pollutant discharge include locating the central parking area away from storm water conveyances and inspecting equipment daily for leaks. Service trucks shall be equipped with spill containment kits in the event of an oil spill. Any spillage of fuel or maintenance oils shall be promptly cleaned up. If a fuel tank is located on site, appropriate secondary containment will be provided.
3. Other ancillary practices have the potential to impact storm water quality. The following measures shall be followed to minimize their impact:
   a. **Temporary Restroom Facilities**
   Temporary restroom facilities shall be provided as required and shall be located to minimize the likelihood of a spill from exiting the site. These facilities shall not be located within 100 feet or directly up gradient from a storm sewer conveyance or additional controls may be necessary. Any spillage shall be promptly contained, cleaned-up, and disposed of properly.
   b. **Unused Construction Materials**
   Unused construction materials that may contribute pollutants to stormwater shall be promptly disposed of or removed from the site.
   c. **Garbage, Debris, and General Solid Waste Maintenance**
   The Contractor shall maintain good housekeeping practices. All trash and debris shall be placed in appropriate leak-proof trash containers to prevent contamination of stormwater. No debris shall be disposed of in the construction trench. Trash containers shall not be located on steep slopes or adjacent to any storm sewer conveyance.
   d. **Sediment Clearing and Disposal**
   Sediment clearing involves the removal of sediment contained by a stormwater quality measure, or sediment that has been discharged into roads or other areas. Bulk clearing of sediment shall NOT include flushing the area with water. Large amounts shall be shoveled or scraped, followed by sweeping and brushing. Any roads or other structures damaged by the clearing shall be repaired immediately. Cleared sediment shall be redistributed or disposed properly.

B2 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS:

The most logical location for the construction entrances are existing City streets located along and adjacent to the job site. Site access and construction entrance locations will be determined by the Contractor.

B3 SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION:

Temporary seeding shall be used for temporary surface stabilization in accordance with the Indiana Storm Water Quality Manual.

Temporary Seeding Recommendations

Seed Species *	Rate/Acre	Planting Depth	Optimum Dates **
Wheat or Rye	150 lbs.	1 to 1-1/2 in.	9/15 to 10/30
Spring Oats	100 lbs.	1 in.	3/1 to 4/15
Annual Ryegrass	40 lbs.	1/4 in.	3/1 to 5/1 8/1 to 9/1
German Millet	40 lbs.	1 to 2 in.	5/1 to 6/1
Sudangrass	35 lbs.	1 to 2 in.	5/1 to 7/30

* Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than a year.
** Seeding done outside the optimum dates increases the changes of seeding failure.

Permanent seeding shall be used for permanent surface stabilization. See Detailed Specifications – Section 15.

B4 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS:

Rock check dams will be used where necessary. Details are included in the plans.

B5 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS:

Silt fences, straw bales, and sandbags will be used where necessary to control sediment runoff from the construction limits. Details are included in the plans.

B6 RUNOFF CONTROL MEASURES:

In accordance with the Detailed Specification the Contractor shall be required to provide bypass pumping or fluming in order to maintain maximum conveyance during construction.

B7 STORMWATER OUTLET PROTECTION LOCATION AND SPECIFICATIONS:

Sandbags and/or straw bales and/or silt fence will be used to protect the existing storm inlets. This information has been included in the Detailed Specification and shown in in the plans. Sediment filters will only be used in conjunction with appropriate storm inlet protection (i.e. sandbag diversion in paved areas and straw bales in turfed areas, see plans) in order to prevent ponding and flow bypass.

B8 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS:

N/A - Outlet for existing storm sewers are already established.

B9 DEWATERING APPLICATIONS AND MANAGEMENT METHODS:

If dewatering becomes necessary on site, the following methods will be used:

Equipment operators are prohibited from discharging groundwater or accumulated stormwater that is removed from excavations, trenches, vaults, or other similar points of accumulation, unless such waters are first effectively managed by appropriate control measures.

Examples of appropriate control measures include temporary sediment basis or sediment traps, sediment socks, dewatering tanks and bags, or filtration systems (e.g. bag or sand filters) that are designed to remove sediment. Uncontaminated, not-turbid dewatering can be discharged without being routed to a control.

At a minimum, the following discharge requirements must be met for dewatering activities:

1. Allow no discharge of visible sediment or solids.
2. At all points where dewatering is discharged, utilize velocity dissipation devices.
3. Dewatering practices must involve the implementation of appropriate control measures as applicable (i.e. containment areas for weathering earth materials, portable sediment tanks and bags, pumping settling basins, and pump intake protection.

Additional dewatering requirements are defined in the detailed specifications.

B10 MEASURES UTILIZED FOR WORK WITHIN WATERBODIES:

Coffer dams will be utilized during construction across the Iroquois River.

B11 MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE:

Throughout the duration of construction, the Contractor shall monitor and manage project construction and stormwater activities through the administration of a self-monitoring program (SMP). A trained individual shall submit weekly SMP report and event inspection reports as required within 24 hours of every ½" rain event. Inspection will be provided for all erosion and sediment control structures to ensure integrity and effectiveness. Inspections will also be provided for all disturbed areas that have not achieved final stabilization, and at all points of discharge form the construction site. Refer to DS-05 "Temporary Erosion and Sediment Control" for requirements regarding the SMP reports and project management log.

B12 PLANNED CONSTRUCTION SEQUENCE THAT DESCRIBES THE IMPLEMENTATION OF STORMWATER QUALITY MEASURES IN RELATION TO LAND DISTURBANCE:

1. Mark any tree protection zones determined by the Contractor.
2. Install inlet protection on all storm water inlets within the area to be disturbed.
3. Install concrete washout areas.
4. Continuously clean streets as specified.
5. Stabilize any disturbed surface with seeding as specified.
6. Complete final cleaning of streets.
7. Remove temporary inlet protection measures and concrete washout areas.

B13 PROVISIONS FOR EROSION AND SEDIMENT CONTROL ON INDIVIDUAL RESIDENTIAL BUILDING LOTS REGULATED UNDER THE PROPOSED PROJECT:

All proposed improvements are taking place within right of ways, utility easements, or land owned by the City. The project area and erosion control are depicted in the plans.

B14 MATERIAL HANDLING AND SPILL PREVENTION PLAN:

1. **List of Expected Materials**
   - Pipe
   - Pipe Fittings and Appurtenances
   - Aggregate backfill
   - Sand bedding
   - Diesel fuel
   - Lubricating Oils
   - Grease
   - Steel
   - Concrete (Cast-In-Place, Pre-Cast)
   - Paint, Coatings
2. **Pipe, Pipe Fittings, and Appurtenances**
   Materials such as pipe, pipe fittings, and pre-cast concrete structures are not foreseen to contribute pollutants to storm water runoff.
3. **Stockpiles (aggregate backfill, sand bedding)**
   Sediment could be released from stockpiles of stone, granular backfill, and sand. To minimize the potential for these materials to enter the storm water runoff, the following measures shall be taken:
   a. Stockpile volumes shall be limited to the amount expected to be used in three (3) days. Maintaining larger stockpiles is discouraged and may require additional erosion controls for adequate protection.
   b. Stockpiles shall not be located on a slope steeper than 2:1 and shall be positioned a minimum of fifty (50) feet away from stormwater conveyances.
   c. Silt Fencing shall be placed down gradient of stockpiles as necessary to prevent sediment transport.
4. **Fuel, Lubricating Oils, Grease**
   There is a potential for a release of fuel, lubricating oils, and grease from on-site machinery due to leaks and during routine maintenance activities. To minimize the potential for these materials to enter the storm water runoff, the following measures shall be taken:
   a. Routine equipment maintenance and fueling activities shall be conducted at locations that minimize the impact of potential spill.
   b. Equipment shall be positioned within the serviceable area of nearby storm water quality controls and away from storm water conveyances during routine maintenance.
   c. Equipment shall be checked daily for leaks and repaired immediately.
   d. Spill control kits consisting of the appropriate oil sorbent socks, boom, and mats shall be provided at all fueling and maintenance areas.
   e. Any leakage or spilled oil shall be cleaned up immediately and properly disposed of in accordance with applicable laws.
   f. If a temporary oil or fuel storage tank is located on site, appropriate secondary containment shall be provided to prevent the off-site release of a spill.

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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER

Signature 4/24/2025 Date

CITY OF RENSSELAER,
INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

Indiana811
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1-800-382-5544
(ITS THE LAW)

No.	Submittal / Revision	By	Date

Designed By:	Drawn By:	Checked By:
AB	BW/CH	AR
Issue Date: 4/2025	Project No: S24051	Scale: AS SHOWN

SWPP PLAN

Drawing No: EC3

Sheet: 26 OF 28

File: \\EGNYTEDRIVE\COMMONWEALTHENGINEERS\SHARED\IN CLIENTS M-Z\RENSSELAER\D S24051 – LTCP IMPRVS PH IIB AND III\DIV B WEST INTERCEPTOR IMPRVS\06 CAD\A CURRENT FILES\1 DRAWINGS\07 – S24051 – EROSION CONTROL.DWG
Saved: 4/17/2025 8:27:22 AM Plotted: 4/23/2025 4:54:26 PM Current User: Craig Higbie LastSavedBy: chigbie

5. **Steel**
Structural steel to be used on this project is not anticipated to contribute pollutants to stormwater runoff.

6. **Cast-in-Place Concrete**
If there is excess concrete during placement, it can be discarded on site, away from stormwater conveyances and allowed to set-up. It shall be then disposed of or utilized elsewhere.

7. **Paint Coatings**
There is a potential for a release of paint or other coatings due to leaks, or spills and during transfer. To minimize the potential for these materials to enter the storm water runoff, the following measures shall be taken:
   a. Containers and application equipment shall be positioned within the serviceable area of nearby storm water quality controls and away from stormwater conveyances.
   b. Containers shall be checked daily for leaks and repaired immediately.
   c. Any leakage or spilled materials shall be cleaned up immediately and properly disposed of in accordance with applicable laws.

8. **327 IAC 2-6.1-7 reportable spills; responsibility**
Sec. 7. Any person who operates, controls, or maintains any mode of transportation or facility from which a spill occurs shall, upon discover of a reportable spill to the soil or surface waters of the state, do the following:
   (1) Contain the spill, if possible, to prevent additional spilled material from entering the waters of the state.
   (2) Undertake or cause others to undertake activities needed to accomplish a spill response.
   (3) As soon as possible, but within two (2) hours of discovery, communicate a spill report to the Department of Environmental Management, Office of Land Quality, Emergency response Section: Area Code 1-888-233-7745 for in state calls (toll free), (317) 233-7745 for out-of-state calls. If new or updated spill report information becomes known that indicates a significant increase in the likelihood of damage to the waters of the state, the responsible party shall notify the department as soon as possible but within two (2) hours of the time the new or updated information becomes known.
   (4) Submit to the Indiana Department of Environmental Management, Office of Land Quality, Emergency Response Section (MC 66-30), 2525 N. Shadeland Ave., Suite 100, Indianapolis, IN 46219-1787, a written copy of the spill report if requested in writing by the department.
   (5) Except from modes of transportation other than pipelines, exercise due diligence and document attempts to notify the following:
      a. For spills to surface water that cause damage the nearest affected downstream water user located within ten (10) miles of the spill and in the state of Indiana; and
      b. For spills to solid ground outside the facility boundary, the affected property owner or owners, operator or operators, or occupant or occupants.

9. **Supplemental Spill Prevention Plan Contact Information**
   Location: City of Rensselaer Sanitation Department
   Owner (Individual): Bryce Black
   Owner (Company): City of Rensselaer
   Address: 124 S Van Rensselaer St
   Phone: (219) 866 - 5530

   EMERGENCY CONTACTS
   IDEM Spill Line (call within 2 hours of spill): (888) 233 -7745
   County Health Department: (219) 866 - 4917

B15 MATERIAL HANDLING AND STORAGE PROCEDURES ASSOCIATED WITH CONSTRUCTION ACTIVITY:

Fuels, oils, grease, or other petroleum products must be stored in appropriate and approved areas. Preventative maintenance will be required for on-site equipment. Hazardous materials will be required to be stored in a field trailer to avoid any outside storage.

All fuel is to be contained in a mobile service truck or in the construction equipment operating on site. Small containers of oils, grease, and related products may be stored in the Contractor's construction trailer. These items will be required to be inspected regularly to ensure proper storage and handling and to guard against leakage. Defective containers will be removed from the project site immediately.

SECTION C: STORMWATER POLLUTION PREVENTION – POST CONSTRUCTION COMPONENTS

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE:

Potential post construction pollutants will remain the same as potential pre-developed pollutants since the land use is not changing. These potential pollutants include sediment, fluid leaks from automobiles, trash, and debris from surrounding residents.

C2 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER MEASURES:

Other than permanent seeding, no permanent stormwater quality measures will be constructed as a part of this project. Permanent seeding is detailed in Part 8 - Detailed Specification 15 of the Contract Book.

C3 PLAN DETAILS FOR EACH STORMWATER QUALITY MEASURE:

Temporary storm water quality measures will be installed prior to any construction activities. Permanent seeding will be used to stabilize disturbed areas following completion of construction activities in the immediately surrounding area. Permanent seeding is detailed in Part 8 - Detailed Specification 15 of the Contract Book.

C4 SEQUENCE DESCRIBING STORMWATER MEASURE IMPLEMENTATION:

Post-construction sequencing measures for this project shall be as follows:

1. Temporary planting will be provided in critical areas devoid of vegetation and subject to erosion. Such temporary plantings may be necessary to protect an area when preparing for winter shut down or to provide cover when permanent seedlings are likely to fail due to an extended period of heat or drought. The intent of these plantings is to provide protective cover while waiting for optimal planting conditions.
2. Removal and cleanup of all temporary erosion control measures including silt fences, inlet and culvert protection areas.
3. The entire construction area is to be inspected and cleaned, including the collection and disposal of construction trash and debris.
4. Permanent seeding and mulching will be installed immediately after achieving final grade or within seven (7) days of inactivity. If necessary, a temporary stabilization practice will be employed until the next prime seeding period.
5. A final site inspection will take place to assure that all requirements of the SWPP, construction drawings, and supporting documentation have been fulfilled.

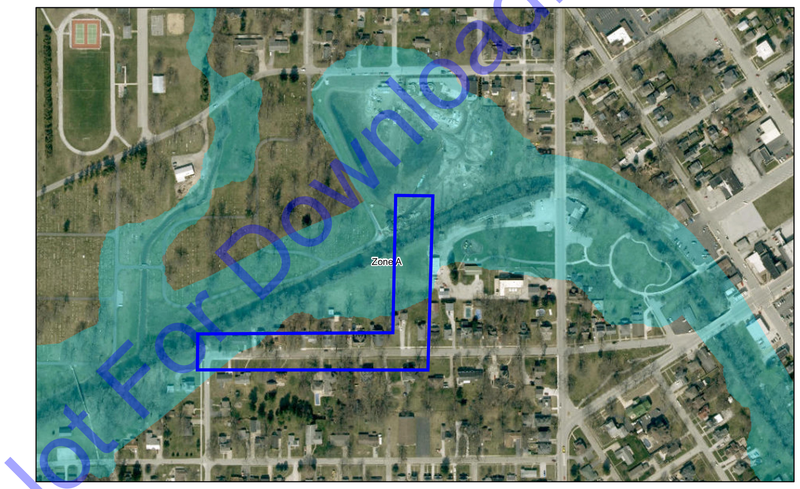
C5 MAINTENANCE GUIDELINES FOR PROPOSED POST-CONSTRUCTION STORMWATER MEASURES:

All areas receiving permanent seeding will be fertilized and maintained in accordance with the specifications.

C6 ENTITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MEASURES:

The City of Rensselaer will be responsible for the operation and maintenance of post-construction stormwater measures.

Rensselaer West Interceptor Floodplain



3/26/2025
FIRM Flood Hazard Zones 2023
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World Imagery
Low Resolution 15m Imagery
High Resolution 60cm Imagery
High Resolution 30cm Imagery
Citations
1.2m Resolution Metadata
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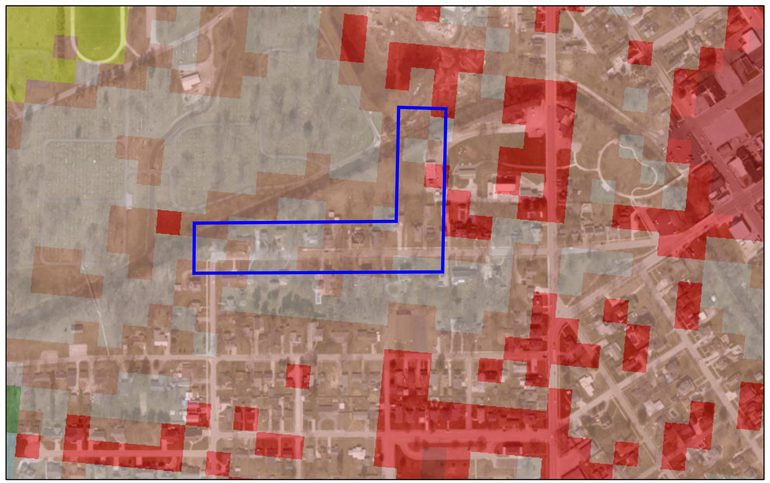
0 0.05 0.1 0.2 km
IGIO, Maxar

Land Use Map - Div. B



January 7, 2025
NLCD Land Cover 2021
Developed, Open Space
Developed, Low Intensity
Developed, Medium Intensity
Developed, High Intensity
Deciduous Forest
Hay/Pasture
Woody Wetlands
1:5,000
0 0.03 0.06 0.12 mi
0 0.05 0.1 0.2 km
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AARON CHRISTOPHER BURNS
REGISTERED
No. 12300838
STATE OF INDIANA
PROFESSIONAL ENGINEER
Signature 4/24/2025 Date

CITY OF RENSSELAER, INDIANA
JASPER COUNTY

WASTEWATER LTCP PHASE IIB AND III
DIVISION B - WEST INTERCEPTOR
IMPROVEMENTS

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SWPP PLAN

Drawing No: EC4

Sheet: 27 OF 28

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MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

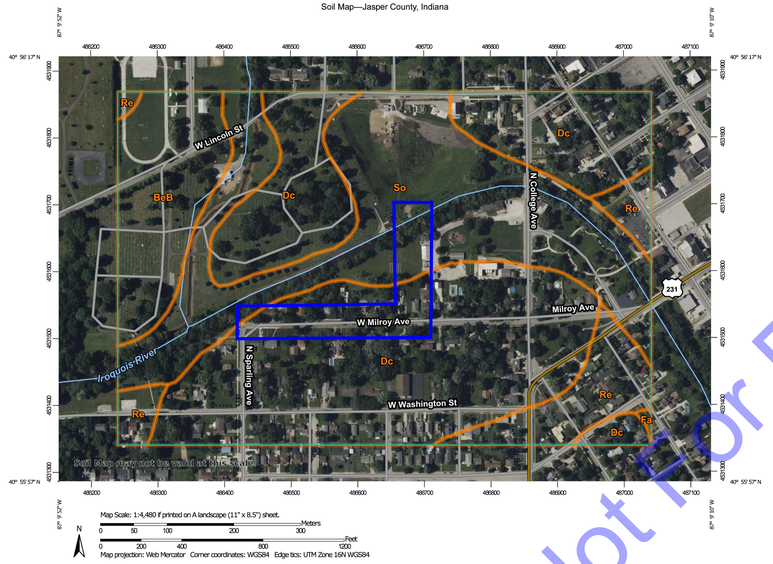
Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

Soil Map—Jasper County, Indiana



Map Scale: 1:4,480 if printed on A landscape (11" x 8.5") sheet.
Meters: 0 50 100 200 300
Feet: 0 200 400 800 1200
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

USDA **Natural Resources Conservation Service**

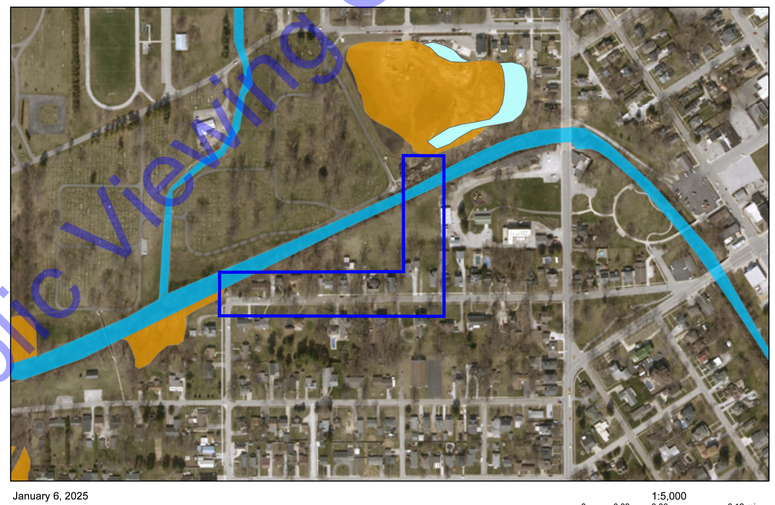
Web Soil Survey
National Cooperative Soil Survey

11/26/2024
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BeB	Brems loamy sand, 1 to 3 percent slopes	11.1	10.6%
Dc	Darroch loam	52.1	49.6%
Fa	Faxon loam	0.1	0.1%
Re	Rensselaer loam, 0 to 1 percent slopes	8.7	8.3%
So	Sloan silt loam, frequently flooded, undrained	33.0	31.4%
Totals for Area of Interest		**105.1**	**100.0%**

Wetland Map - Division B



January 6, 2025

National Wetlands Inventory - NWI Historic Wetlands
National Wetlands Inventory - NWI Wetlands
Palustrine
Riverine
National Wetlands Inventory - NWI Indiana Area
National Wetlands Inventory - NWI Wetlands Project Metadata
National Wetlands Inventory - NWI Historic Wetlands Project Metadata

1:5,000
0 0.03 0.06 0.12 mi
0 0.05 0.1 0.2 km
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Aaron Burns 4/24/2025
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EC5
Sheet: 28 OF 28

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