



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ENVIRONMENTAL FIELD OFFICE**

**3711 Middlebrook Pike
Knoxville, TN 37921**

(865)594-6035 STATEWIDE 1-888-891-8332 (865)594-6105

Receipt: EAC-K-12838

Date of Receipt: 12-Jan-2023 10:27 am

Created By: Sondra Wood (BG57016)

County: Knox

EFO/Office: Knoxville Field Office

Received From: Sharon T. Miller

Company/Affiliation: WK Dickson & Co.

Recipient Address: 1213 W. Morehead Street, Suite 300
CHARLOTTE, NC- 28208

Amount Received: \$1,000.00

Method of Payment: 3

Check Number:

Comments: (1) ARAP-Kellum Creek Crossing

(2) ARAP-Knob Creek Water Main

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-ARAP-\$500 Permit Application	43.340.F02	2	\$500.00	\$1,000.00

Receipt Total: \$1,000.00



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 Division of Water Resources
 William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
 Nashville, Tennessee, 37243
 1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY	Site #:	Permit #:
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Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name (company or individual):		SOS #:	Status:
Primary Contact/Signatory:		Signatory's Title or Position:	
Mailing Address:		City:	State: Zip:
Phone:	Fax:	E-mail:	

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name:			
Company:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone:	Fax:	E-mail:	

Section 3. Fee (application will be incomplete until fee is received)

No Fee	Fee Submitted with Application	Amount Submitted: \$ _____
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Current application fee schedules can be found at the Division of Water Resources webpage at:
<https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html>
 or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".

Billing Contact (if different from Applicant):	Name:	Email:
Address:	Phone:	

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name:		Nearest City, Town or Major Landmark:	
Street Address or Location (include zip):			
County(ies):	MS4 Jurisdiction:	Latitude (dd.dddd):	
		Longitude (dd.dddd):	
Resources Proposed for Alteration:	Stream / River	Wetland	Reservoir
Name of Water Resource (for more information, access http://tdeconline.tn.gov/dwr):			
Brief Project Description (a more detailed description is required under Section 8):			
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? Yes No			
If Yes, provide the permit reference numbers:			
Will the activity require a 401 Water Quality Certification: Yes No			
If Yes, attach any 401 WQC pre-filing meeting request documentation			
Is the proposed activity associated with a larger common plan of development: Yes No			
If Yes, submit site plans and identify the location and overall scope of the common plan of development.			
Plans attached? Yes No			
If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):			

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 5. Project Schedule (fill in information and check appropriate boxes)		
Proposed start date:	Estimated end date:	
Is any portion of the activity complete now?	Yes	No
If yes, describe the extent of the completed portion:		

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Description	Attached
	Yes No
6.1 A narrative description of the scope of the project	
6.2 USGS topographic map indicating the exact location of the project (can be a photographic copy)	
6.3 Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	
6.4 A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	
6.5 A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	
6.6 In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	
6.7 A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	

Section 7. Project Rationale	Attached
	Yes No
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources	

Section 8. Technical Information	Attached
	Yes No
8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	
8.2 For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring	
8.3 Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	

<p>Section 9. Water Resources Degradation (degree of proposed impact)</p> <p>Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than <i>de minimis</i> degradation to water quality. Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:</p> <ol style="list-style-type: none"> a. <i>De minimis</i> degradation, no appreciable permanent loss of resource values b. Greater than <i>de minimis</i> degradation (if greater than <i>de minimis</i> complete Sections 10-11) <p><i>For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule:</i> https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm <i>For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at:</i> https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html</p>
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Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

Section 10. Detailed Alternatives Analysis		Attached Yes No
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.	
10.2	Discuss the social and economic consequences of each alternative	
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	

Section 11. Compensatory Mitigation		Attached Yes No
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.	
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)	

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. ***I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.***

Printed Name	Official Title	Signature	Date
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Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



Allensville Sewer Improvements Aquatic Resource Alteration Permit

Application

WKD Project No: 20210474.00.KV



Prepared for:

City of Sevierville
2295 McCroskey Island Rd
Sevierville, TN 37876
Phone (865) 453-5522

Prepared by:

WK Dickson Co., Inc.
1111 N. Northshore Drive
Suite S-400
Knoxville, TN 37919
Phone (865) 270-3310



SECTION 6: Project Description

6.1 Narrative Description

Sevierville is constructing a new sewer pump station and approximately 9,029 LF of 6" PVC sewer force main. This new pump station will replace 3 existing pump stations that are deteriorated, inefficient, and unable to pump their rated capacities. This pump station and force main design has been approved by TDEC. During construction, the contractor was unable to bore under the creek and will require an open-cut crossing. The location of the creek crossing has also been modified to approximately 35 LF upstream from the original bored crossing.

One (1) stream crossing on Kellum Creek is associated with this force main crossing. A vicinity map has been included below in Section 6.2 and is further detailed in the attached construction plans. The stream crossing coordinates are identified in the table below:

STREAM CROSSING	DESCRIPTION	LATITUDE	LONGITUDE
1	Kellum Creek	35.8894135N	83.5486240W

We have been advised by the contractor; the strategy to bore 10 feet under the stream at about station 20+00 will not be feasible and almost impossible in this area. The high road embankment presents the possibility of losing the road when construction bore pits are created, and the proximity of the headwall for the stream culvert under the road presents the possibility of damage (possibly partial collapse) to the culvert structure. The presence of an existing water main and natural gas line along the toe of the road embankment further complicates trying to make the bore under the creek in the proximity of the road. Directionally drilling the new force main under the creek cannot be accomplished due to prohibitive access conditions and insufficient drilling development lengths.

The only solution available is to cross the creek further from the road. The area shown in this narrative is not favorable for bore/jack construction equipment use. The use of directional drilling equipment at this site has been ruled prohibitively expensive. However, it could be crossed rather quickly by open-cut, especially if accomplished while the area is relatively dry. Figure 2 shows the plan and profile of the stream bypass strategy. The bypass steel casing inserted on the stream bottom, into the stream flow line, can be as large as 60" in diameter, with steel "wing walls" on each end to channel flow into the bypass casing. Once installed, the force main casing pipe can be installed under the bypass casing bridge of the stream, covered with a 12" thick layer of flowable fill, backfilled with large river rock/gravel to bring the trench cut and creek bank cuts back to the original grade, and the entire bypass casing removed in a single activity. Because the existing stream is relatively narrow in this area, it would be reasonable to anticipate minimal disturbance to the stream and adjacent banks.

The force main and pump station construction is not expected to have any long-term impacts on the stream listed above and will therefore not significantly affect the quality of the environment. The temporary impacts associated with the sewer will be minimal during the construction. Erosion control measures already provided in the approved contract documents will be implemented to minimize the potential for run-off from construction activities to enter the stream. The excavation and backfill activities associated with the stream encroachments and crossing will be kept separated from flowing waters. The buffer areas will be constructed so as not to impede waterways.

6.2 USGS Topographic Map and Vicinity Map

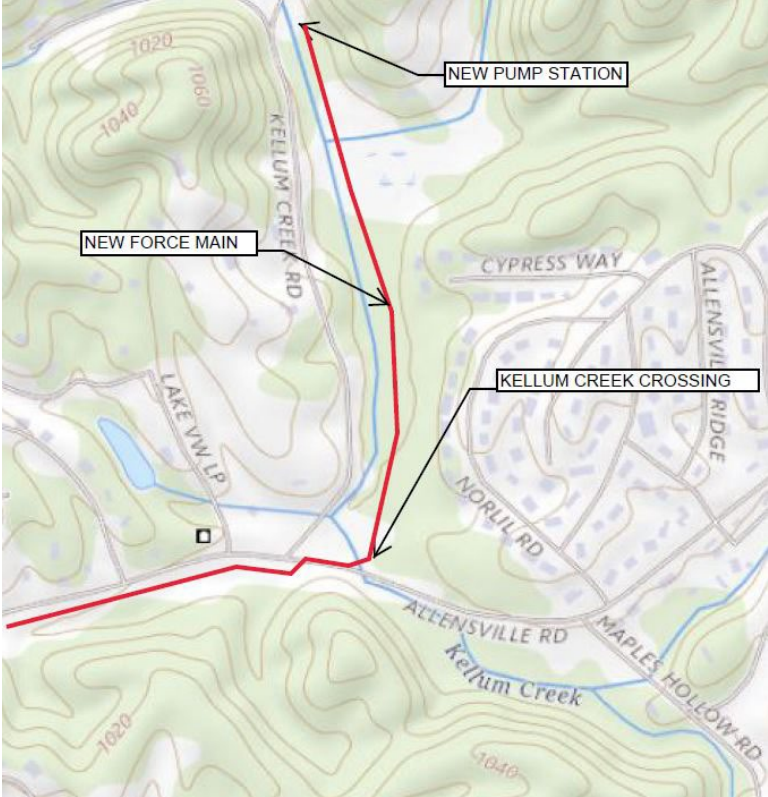


Figure 1: USGS Map

6.3 Photographs of Resources Proposed for Alteration



Kellum Creek - Stream Crossing – Photo

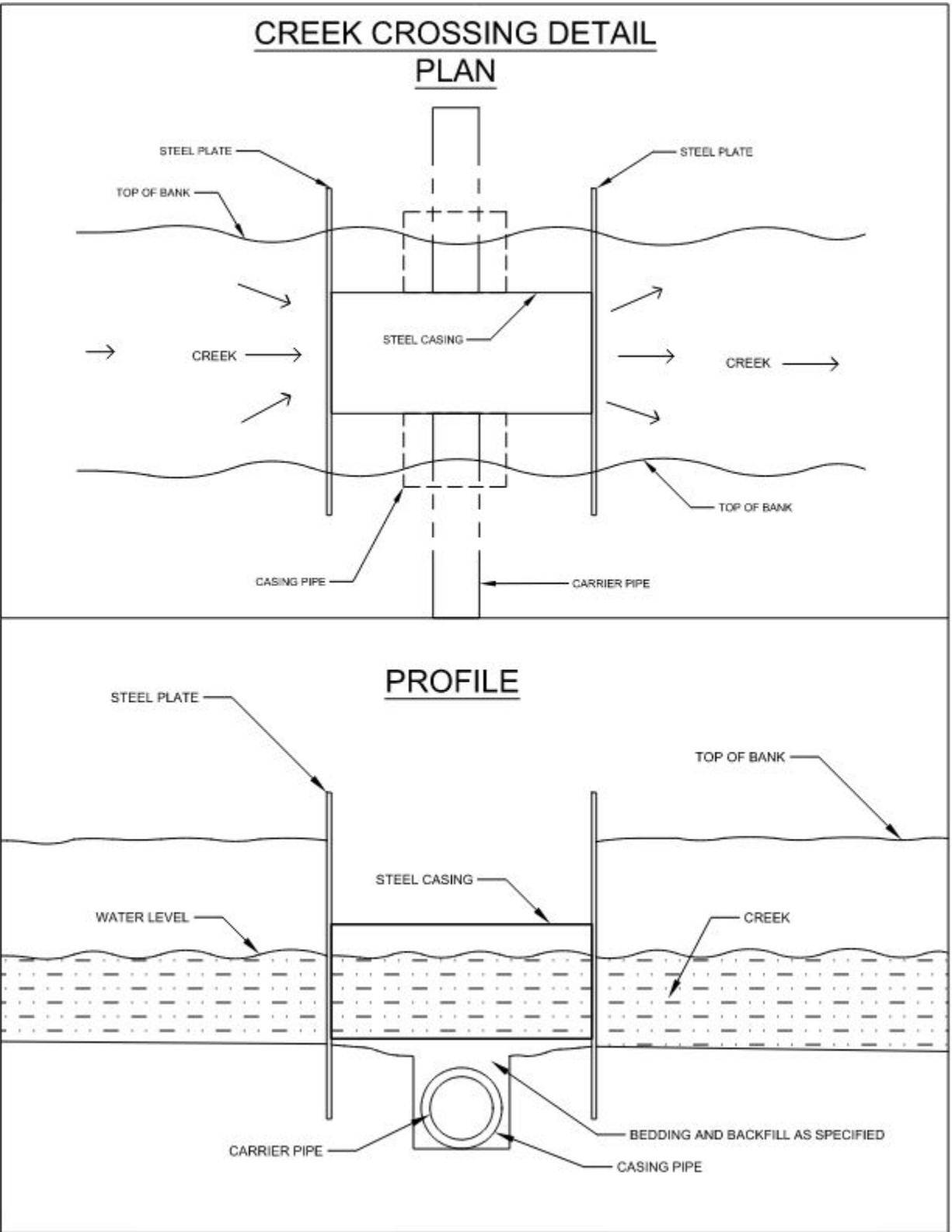


Figure 2: Creek Crossing Bypass

6.4 Narrative Description of Existing Streams

Kellum Creek stream crossing is approximately 6-feet wide (top of the bank to top of bank) and at the time of site investigation, the depth was approximately 3 to 9 inches. The riparian buffer zone consists of some vegetation on each side of the stream. The streambed consists of silty soils and river stones.

6.5 Narrative Description of Proposed Streams

It is not anticipated there will be significant changes to the existing conditions at the completion of construction, and the stream will retain its approximate width and depth. Stream changes are anticipated to be “de minimis”.

6.6 Wetlands Information— *Not applicable.*

6.7 Hydrologic or Jurisdictional Determination Documents— *Not applicable.*

SECTION 7: Project Rationale

The Allensville Road service area portion of the Sevierville Wastewater Collection System is currently served with 3 pump stations. These facilities are old, deteriorated, inefficient, and unable to pump their rated capacities. Rather than replace the 3 pump stations with new stations, the City of Sevierville has concluded a new single pump station for the service area is the most cost-effective solution. Its capacity will address the current connected peak daily flow demands and the probable life cycle build-out demands of the service area for residential and commercial customers.

SECTION 8: Technical Information

8.1 Detailed Project Plans

See attached Design Packet.

8.2 Sequencing of Events

Proper erosion control measures will be put into place prior to disturbance. Two steel plates with the bypass piping will be placed to allow for the diversion of water. The trench will be dug across the stream channel and under the bypass piping. The pipe will be installed and backfilled as detailed on the drawings. Temporary and permanent erosion control measures will be removed following the installation and re-stabilization.

Riparian zone streambank restoration will be performed as detailed on the drawings.

Mitigation is not required per the “Stream Mitigation Guidelines for the State of Tennessee” because aquatic resources are not anticipated to be significantly impacted.

8.3 Erosion Prevention and Sedimentation Control

Erosion control measures will adhere to the State of Tennessee Erosion and Sedimentation Control Handbook. These measures will be incorporated into the installation. Temporary sedimentation controls may include but are not limited to: berms, cofferdams, silt fences, traps, barriers, filter bags, filter stone, and appurtenances at the foot of sloped surfaces which will ensure that migrating silt will be either eliminated or maintained within acceptable limits as established by the Federal Clean Water Act of 1987. If necessary, cofferdams will be installed in the streams and the flow will be pumped to a secondary settling pond before being discharged downstream. The banks will be stabilized and monitored. Please see the attached drawings.

SECTION 9: Water Resources Degradation

These activities are anticipated to cause “de minimis” degradation of water quality.

SECTION 10: Detailed Alternative Analysis

Alternatively, the force main could be horizontally directionally drilled or jack and bored. To horizontally directionally drill across the creek, more than 60 feet of “development” distance is needed behind the bore. Not only is insufficient easement available, but the steep terrain also does not accommodate this technology.

Regarding the jack and bore option, due to the limited space between the road and the creek, the receiving bore pit for jack and bore could interfere with existing water and gas lines. Also, the depth of the bore and receiving pits will cause significant groundwater intrusion, making this method cost-prohibitive compared to open cut.

SECTION 11: Compensatory Mitigation – *Not applicable.*

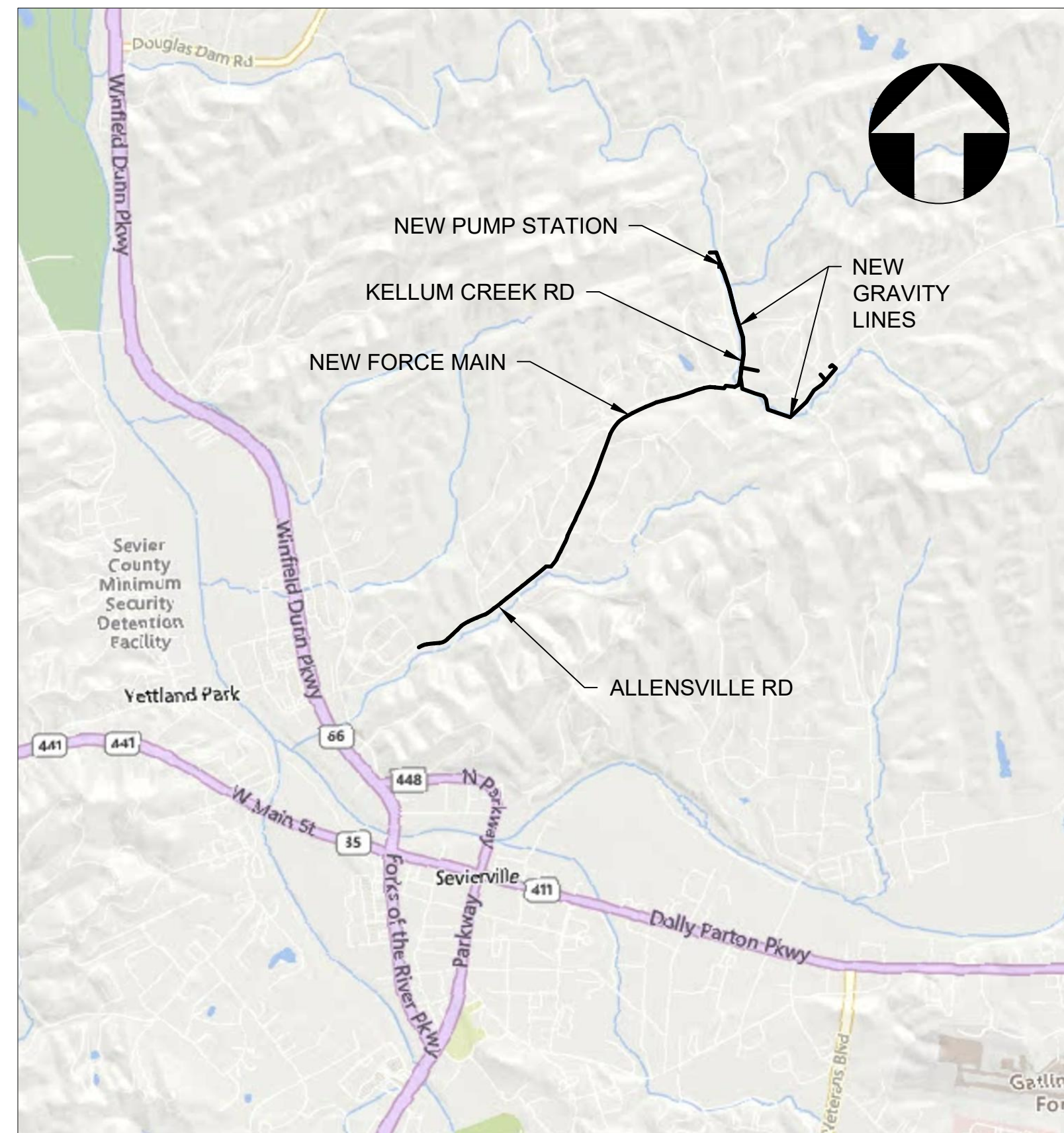
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ALLENSVILLE SEWER IMPROVEMENTS

FOR CITY OF SEVIERVILLE SEVIER COUNTY, TENNESSEE

MARCH 2022

WK DICKSON NO.: 20210474.00.KV



VICINITY MAP

NOT TO SCALE

CITY OF SEVIERVILLE
PO BOX 5500 120
GARY WADE BOULEVARD
SEVIERVILLE, TN 37864

SHEET INDEX

Sheet #	Sheet Title
C-1	COVER
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2	FORCE MAIN - STA 12+00 TO STA 25+00
3	FORCE MAIN - STA 25+00 TO STA 38+00
4	FORCE MAIN - STA 38+00 TO STA 51+00
5	FORCE MAIN - STA 51+00 TO STA 64+00
6	FORCE MAIN - STA 64+00 TO STA 77+00
7	FORCE MAIN - STA 77+00 TO STA 90+29
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9	GRAVITY LINE B - STA 0+00 TO STA 14+00
10	GRAVITY LINE B - STA 14+00 TO STA 28+00
11	GRAVITY LINE B - STA 28+00 TO STA 41+73.04
12	GRAVITY LINE C - STA 0+00 TO STA 2+60.89
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14	PUMP STATION SITE PLAN
14.1	PUMP STATION GRADING PLAN
15	PUMP STATION DETAILS
15.1	PUMP STATION DETAILS
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D-2	DETAILS
D-3	DETAILS
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EC-2	EROSION CONTROL DETAILS
E-1	LEGEND AND SCHEDULE
SE-1	SITE PLAN - ELECTRICAL

NOTICE TO CONTRACTOR

1) PRIOR TO CONSTRUCTION, DIGGING, OR EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST AND CROSS THROUGH THE AREA(S) OF CONSTRUCTION, WHETHER INDICATED ON THE PLANS OR NOT. CALL "811" A MINIMUM OF 72 HOURS PRIOR TO DIGGING OR EXCAVATING. REPAIRS TO ANY UTILITY DAMAGED RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.
Call before you dig

WK DICKSON
community infrastructure consultants
200 W. MLK BLVD
SUITE 1000
CHATTANOOGA, TN 37402
(423) 813-3450
(704) 334-0078
WWW.WKDICKSON.COM

JOHN R. BURRIS
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
No. 12395
STATE OF TENNESSEE
PROFESSIONAL SEAL
Jan 11 2023 5:34 PM

NO.	DATE	INITIAL ISSUE	DESCRIPTION
	04-06-2022		

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
FOR
CITY OF SEVIERVILLE
SEVIER COUNTY, TENNESSEE
DRAWING TITLE: COVER

DRAWING STATUS

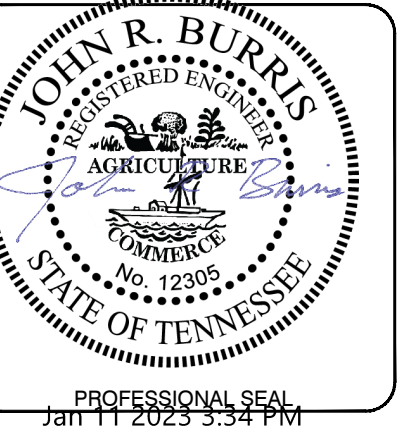
PROJ. MGR.:	JB
DESIGN BY:	DWM
DRAWN BY:	DWM
PROJ. DATE:	MARCH 2022
DRAWING NUMBER:	C-1

WKD PROJ. NO.: 20210474.00.KV

FILE PATH: Z:\projects\sevier\20210474\00.kv - Alternate Files - Information\2022\The - 2022\04-06-2022\04-06-2022.dwg - COPY - dwg - REFLECTY - 11/10/2022 10:44 PM

GENERAL NOTES:

1. THE ENGINEER HAS MADE ALL POSSIBLE ATTEMPTS TO LOCATE EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO NOTE ANY CONFLICTS. ANY DAMAGE TO UTILITIES INCURRED DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. TENNESSEE 811 CAN BE CONTACTED BY CALLING 811, OR (800) 351-1111.
2. UTILITIES SHOWN WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCY RECORDS AND ANY OTHER AVAILABLE EVIDENCE OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR VARY FROM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO THE ACTUAL LOCATION OF ANY UTILITIES SHOWN, WHICH ARE NOT VISIBLE FROM THE SURFACE.
3. LOCATION OF EXISTING UTILITIES, PIPING AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND ARE NOT NECESSARILY REPRESENTATIVE OF ALL EXISTING FACILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPING, AND UNDERGROUND STRUCTURES THAT MAY INTERFERE WITH THE PROPOSED WORK BY POTHOLING AND CONTACTING THE UTILITY COMPANIES INVOLVED.
4. PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
5. MINIMUM SEPARATION DISTANCES FOR SANITARY SEWER LINES FROM:
 - A. WATER LINES - 18" VERTICAL OR 10' HORIZONTAL
 - B. STORM SEWERS - 12" VERTICAL
6. IF CONDITIONS DO NOT ALLOW WATER PIPE TO BE PLACED ABOVE EXISTING SANITARY SEWER PIPE THE CONTRACTOR SHALL PROVIDE MINIMUM 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF SANITARY SEWER PIPE AND TOP OF WATER PIPE AND INSURE THAT SANITARY SEWER PIPE IS LOCATED MID SPAN ON THE LENGTH OF WATER PIPE
7. THE CONTRACTOR SHALL SAW CUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ACCESS TO PRIVATE PROPERTY FROM THE PROJECT AREA SHALL BE MAINTAINED AT ALL TIMES.
8. THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE DRIVEWAYS AND SIDEWALKS TO THE NEAREST EXPANSION/CONTROL JOINT AND PROVIDE 1/2" EXPANSION MATERIAL BETWEEN EXISTING AND NEW CONCRETE.
9. SEWER SERVICE LATERALS ARE SHOWN AT ANTICIPATED LOCATIONS. CONTRACTOR SHALL COORDINATE FINAL LOCATIONS WITH PROPERTY OWNERS TO BEST SERVE THE PROPERTY.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT
11. ALL CONSTRUCTION TO CONFORM TO APPLICABLE CITY OF SEVIERVILLE WATER AND WASTEWATER STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH CITY OF SEVIERVILLE ORDINANCES.
12. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
13. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS A MINIMUM OF 72 HOURS BEFORE COMMENCEMENT OF UTILITY INSTALLATION AND FOR COORDINATION OF CONNECTIONS TO EXISTING LINES.
14. FENCE REMOVAL AND REPLACEMENT: AREAS REQUIRING FENCE REMOVAL SHALL BE PERFORMED BY THE CONTRACTOR ONLY TO THE EXTENT REQUIRED FOR SAFE REMOVAL OF THE EXISTING PUMP STATION AND INSTALLATION OF THE NEW PUMP STATION OR INSTALLATION OF GRAVITY SEWERS/FORCE MAIN THE FENCE SHALL BE CAREFULLY REMOVED AND SAFELY STORED FOR REPLACEMENT AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER REALIGNMENT OF THE RESTORED FENCE LINE. ANY MISALIGNMENT OR DAMAGE TO THE RESTORED FENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTE ANY DAMAGE TO THE FENCE PRIOR TO CONSTRUCTION WITH ADEQUATE PHOTOGRAPHS OR OTHER EVIDENCE AND SHALL IDENTIFY THE SAME TO THE ENGINEER PRIOR TO CONSTRUCTION.
15. ACCESS TO PRIVATE PROPERTY FROM THE PROJECT AREA SHALL BE MAINTAINED AT ALL TIMES.
16. TRAFFIC CONTROL IS REQUIRED FOR ALL CONSTRUCTION ACTIVITIES WITHIN 15' OF THE EDGE OF ANY ROADWAY. TRAFFIC CONTROL DEVICES, PRACTICES, AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) MILLENNIUM EDITION BY THE FEDERAL HIGHWAY ADMINISTRATION.
17. CONTRACTOR SHALL REPLACE ANY VEGETATION, SHRUB, BUSH, OR TREE THAT IS DISTURBED OR DESTROYED DURING CONSTRUCTION TO A CONDITION EQUIVALENT OR BETTER THAN IT PREVIOUSLY EXISTED, WHETHER THE LANDSCAPING ITEM IS ON PRIVATE PROPERTY OR INSIDE THE RIGHT-OF-WAY.
18. CONTRACTOR SHALL KEEP AND MAINTAIN A SET OF PLANS WITH ACCURATE LOCATIONS, MEASUREMENTS, AND OTHER DATA NOT READILY AVAILABLE FROM ABOVE GROUNDS AS-BUILT EFFORTS. A COPY OF THESE PLANS SHALL BE SUBMITTED TO THE OWNER AT THE COMPLETION OF THE PROJECT.
19. CONTRACTOR SHALL GRADE DITCH LINES TO DRAIN BETWEEN DRIVEWAY PIPES.
20. ALL DISTURBED DITCH LINES SHALL BE STABILIZED WITH EROSION CONTROL MATTING.
21. TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
22. CONTRACTOR TO COORDINATE DISRUPTION/REMOVAL OF ANY LANDSCAPING, SPRINKLER SYSTEMS, FENCES, SHEDS, GARDENS, RETAINING WALLS, ORNAMENTALS, ETC. WITH THE PROPERTY OWNER AND REPLACE TO MATCH OR IMPROVE EXISTING CONDITIONS.
23. WHEN EXCAVATION MUST OCCUR NEAR A UTILITIES POLE, THE CONTRACTOR SHALL EMPLOY A LICENSED ELECTRICAL CONTRACTOR TO GUY, ANCHOR, BRACE, MECHANICALLY HOLD, ETC., THE POLE THROUGHOUT THE EXCAVATION PROCESS AND UNTIL THE EXCAVATED AREA CAN BE PROPERLY BACKFILLED AND COMPACTED TO PREVENT MOVEMENT OF THE POLE. IF THE EXCAVATION AFFECTS AN ANCHOR, THE POLE WILL NEED TO BE STABILIZED IN A SIMILAR MANNER UNTIL THE ANCHOR CAN BE REINSTALLED IN THE EXACT LOCATION. CONTRACTOR SHALL NOTIFY OWENR NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO EXCAVATION WITHIN THE UTILITY (20) FEET OF ANY POLE AND SHALL PROVIDE INFORMATION TO OWNER PERTAINING TO THE METHOD THAT IS TO BE USED TO STABILIZE THE POLE, AS WELL AS THE NAME OF THE ELECTRICAL CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK.
24. WHERE EXISTING SHOULDER GRADE IS ABOVE EDGE OF PAVEMENT ELEVATION, TOP OF SEWER LINE SHALL BE INSTALLED A MINIMUM OF 36" BELOW TOP OF PAVEMENT TO ASSURE MINIMUM COVER REQUIREMENT IN THE EVENT OF FUTURE GRADING AND/OR PAVING ACTIVITIES.
25. THE MAXIMUM OPEN JOINT DEFLECTION FOR ALIGNMENT AND GRADE FOR PRESSURE MAIN SHALL BE THREE DEGREES (3').
26. CONTRACTOR TO VERIFY GAS LINES TO DETERMINE TYPE OF PIPE MATERIAL AND IF CATHODIC PROTECTION IS IN PLACE. IF PROPOSED SEWER LINE CROSSES OR IS WITHIN 5 FEET OF CATHODICALLY PROTECTED GAS LINE, SEWER LINE SHALL BE POLYWRAPPED.
27. AUTOMATIC AIR RELEASE VALVES ARE SHOWN AS APPROXIMATE LOCATIONS. COORDINATE EXACT LOCATION WITH UTILITY REPRESENTATIVE AND/OR ENGINEER.
28. ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND /OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF THE CITY OF SEVIERVILLE'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE THE CITY OF SEVIERVILLE'S STANDARD SPECIFICATIONS, ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE TDEC ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY. REVIEW AND APPROVAL OF THE PLANS DOES NOT RELIEVE THE OWNER, CONTRACTOR, OR DEVELOPER FROM MEETING THE REQUIREMENTS OF CITY OF SEVIERVILLE ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, (AS APPLICABLE), AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS & APPROVALS. THE CONTRACTOR MUST CONTACT THE -- ENGINEERING CONSTRUCTION MANAGER, -- AT LEAST 24-HOURS PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY.
29. ALL PUMP STATION PIPING IS STAINLESS STEEL, UNLESS NOTED OTHERWISE.
30. REHABILITATION OF EXISTING MANHOLES SHALL INCLUDE FORMATION OF NEW TROUGH, REPAIR OF SURFACE OR STRUCTURAL DAMAGE, AND THE APPLICATION OF A TWO-COMPONENT POLYUREA LINER APPLIED TO THE EXISTING MANHOLE. THE LINER SYSTEM SHALL BE OBIC 1000 AS INSTALLED BY OBIC, LLC OR THEIR APPROVED APPLICATOR.
31. UNLESS NOTED OTHERWISE, ALL MANHOLE FRAME AND COVERS ARE TO BE WATERTIGHT.



NO.	DATE	INITIAL ISSUE	DESCRIPTION	BY
	04-06-2022			JB

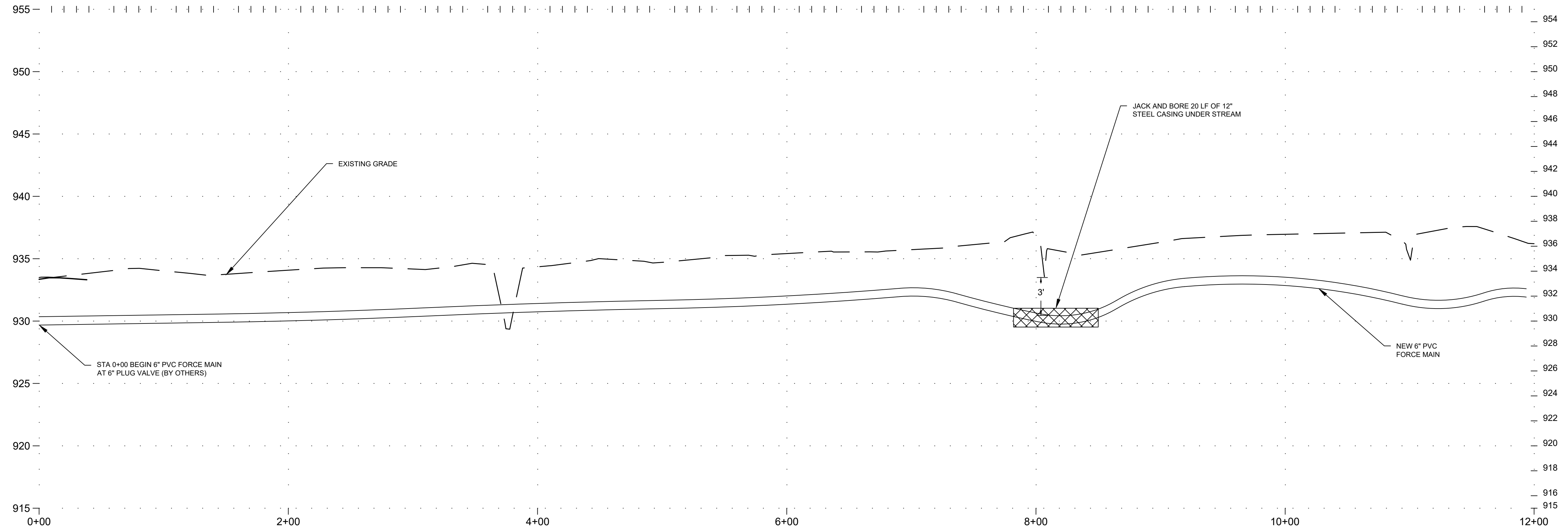
PROJECT NAME: **ALLENSVILLE SEWER IMPROVEMENTS FOR CITY OF SEVIERVILLE SEVIER COUNTY, TENNESSEE**

DRAWING TITLE: **GENERAL NOTES**

PROJ. MGR.: JB
 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
G-1
 WKD PROJ. NO.:
 20210474.00.KV

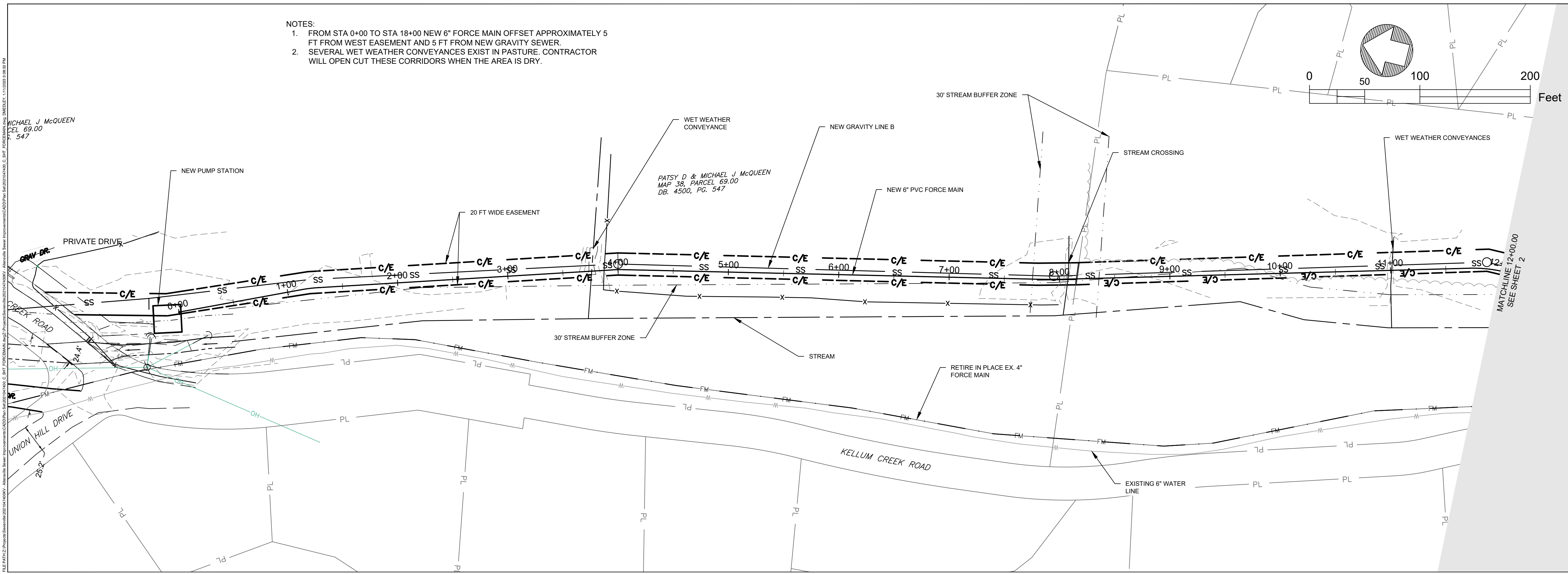
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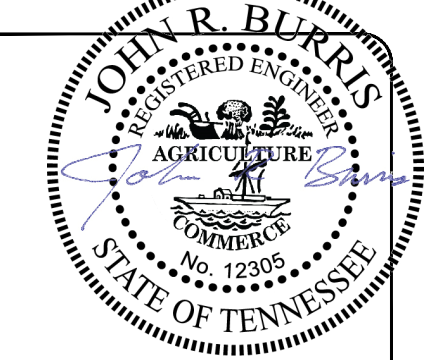


ALLENSVILLE FORCE MAIN PROFILE
 H: 1"=50
 V: 1"=5

- NOTES:
- FROM STA 0+00 TO STA 18+00 NEW 6" FORCE MAIN OFFSET APPROXIMATELY 5 FT FROM WEST EASEMENT AND 5 FT FROM NEW GRAVITY SEWER.
 - SEVERAL WET WEATHER CONVEYANCES EXIST IN PASTURE. CONTRACTOR WILL OPEN CUT THESE CORRIDORS WHEN THE AREA IS DRY.



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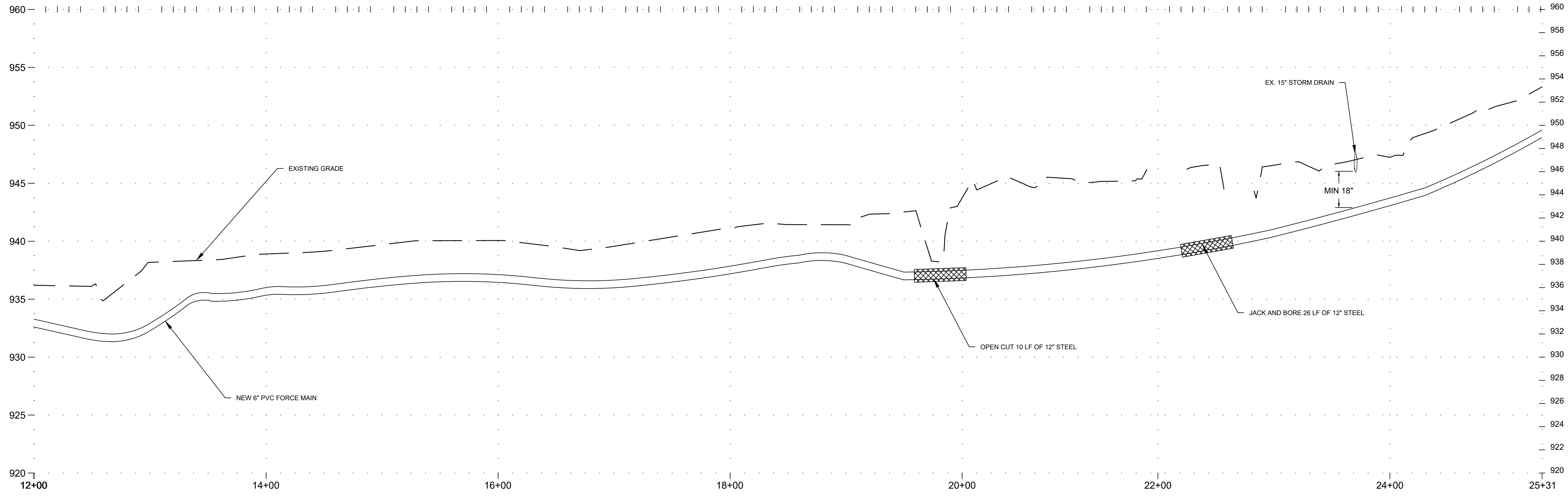
REVISION RECORD		DESCRIPTION	
NO.	DATE	INITIAL	ISSUE

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
DRAWING TITLE: FORCE MAIN - STA 0+00 TO STA 12+00

DRAWING STATUS

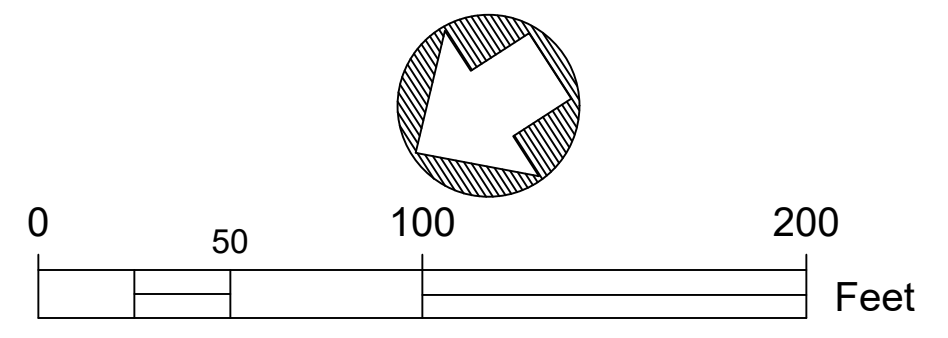
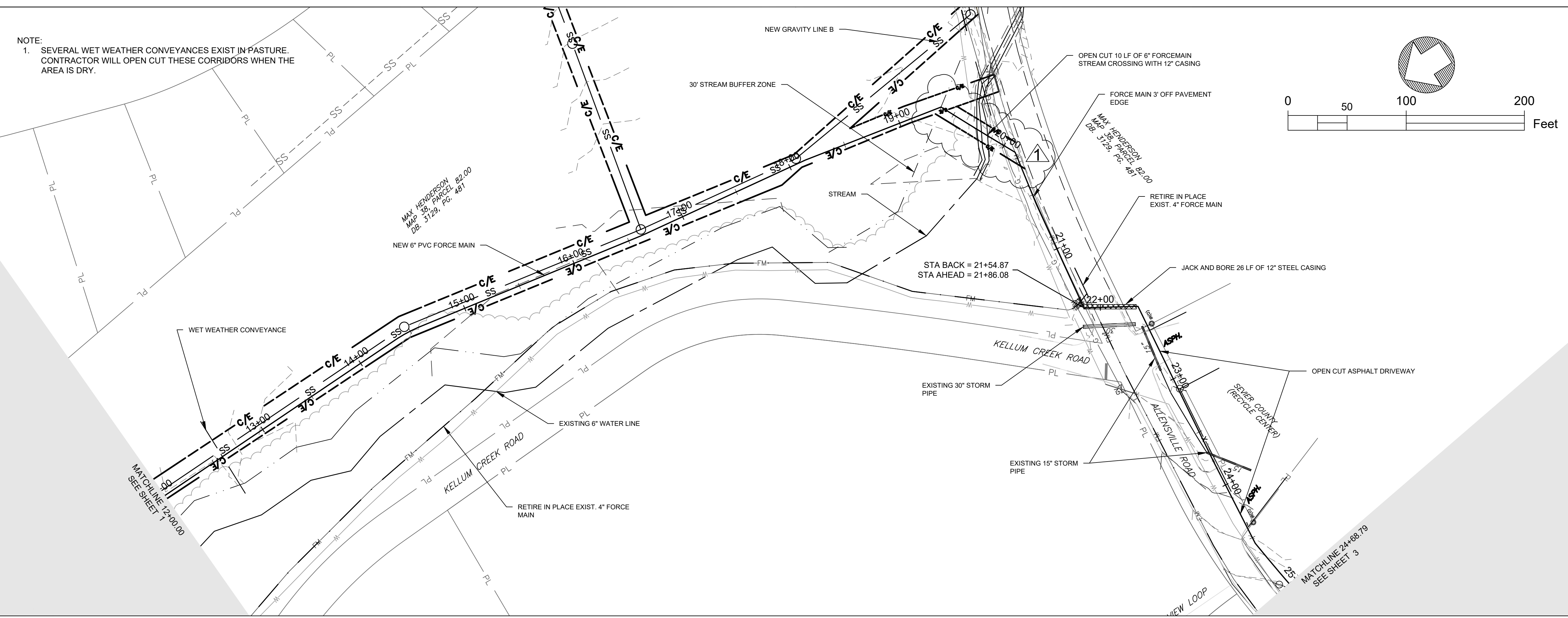
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DRAWN BY:	DWM
PROJ. DATE:	MARCH 2022
DRAWING NUMBER:	1
WKD PROJ. NO.:	20210474.00.KV

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ALLENSVILLE FORCE MAIN PROFILE
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 V: 1"=5

NOTE:
 1. SEVERAL WET WEATHER CONVEYANCES EXIST IN PASTURE. CONTRACTOR WILL OPEN CUT THESE CORRIDORS WHEN THE AREA IS DRY.



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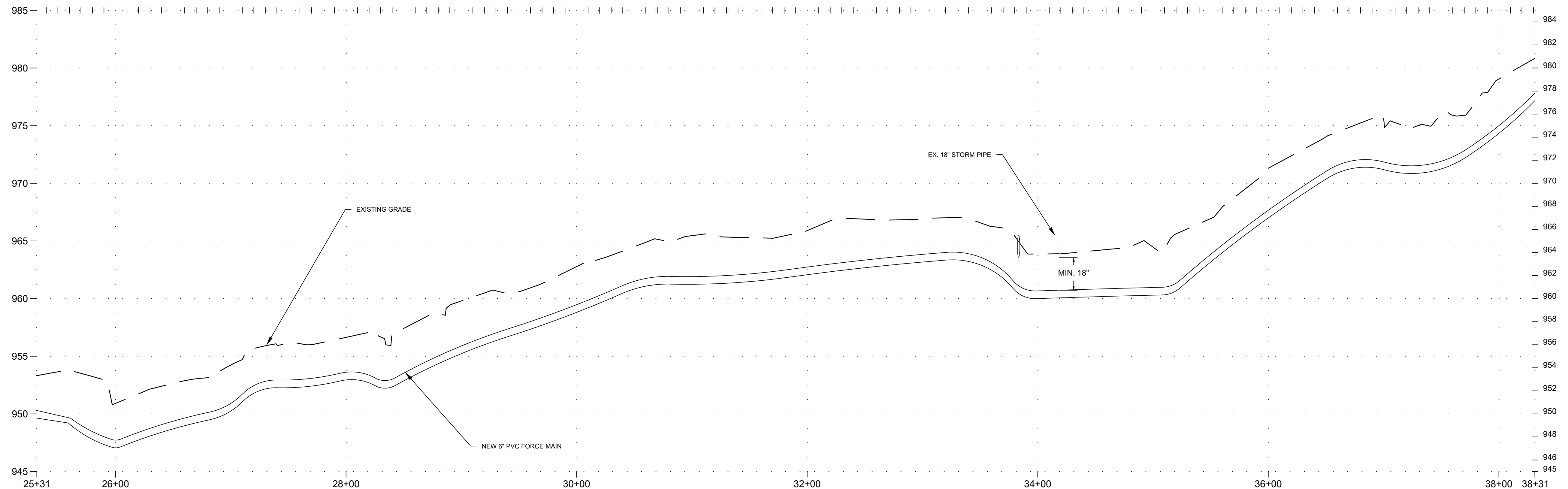
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NO.	DATE	DESCRIPTION	BY
1	01-10-2023	REVISED STREAM CROSSING ALIGNMENT FOR OPEN CUT	JB
2	04-06-2022	INITIAL ISSUE	JB

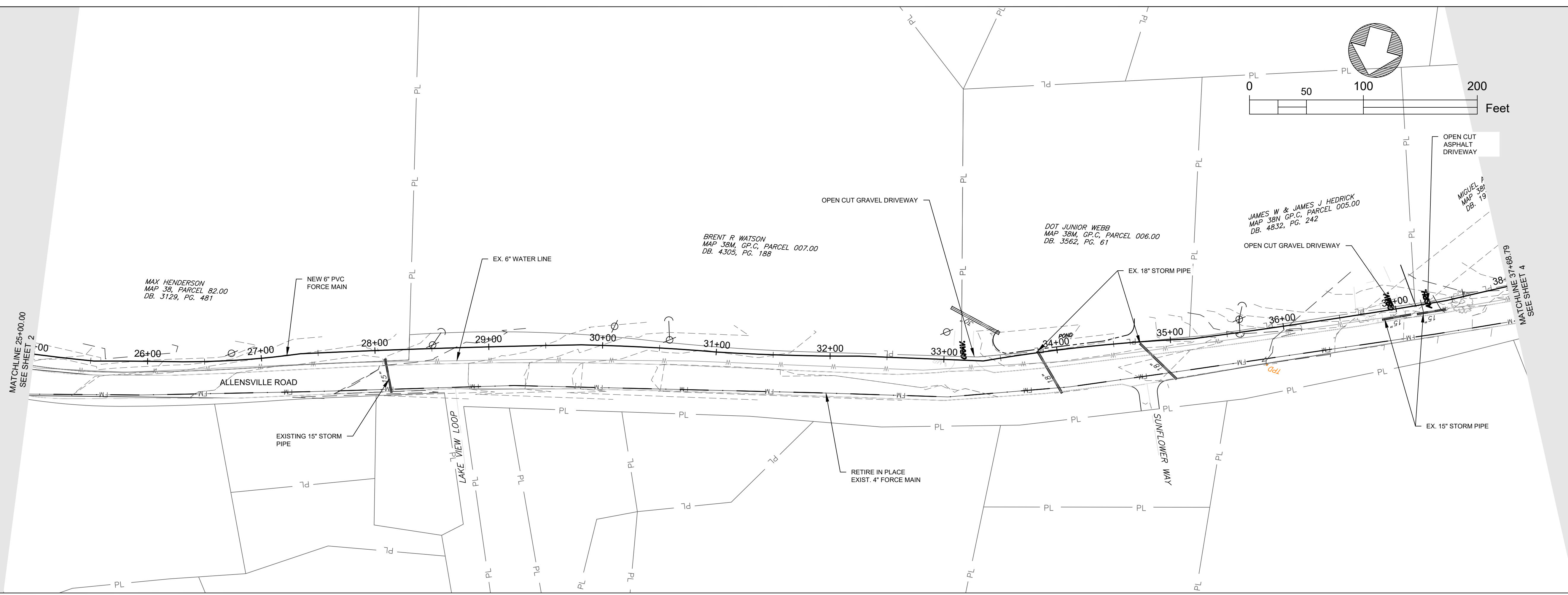
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 DRAWING TITLE: FORCE MAIN - STA 12+00 TO STA 25+00

DRAWING STATUS
 PROJ. MGR.: JB
 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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 WKD PROJ. NO.:
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ALLENSVILLE FORCE MAIN PROFILE
H: 1"=50
V: 1"=5



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DATE	INITIAL ISSUE	DESCRIPTION	BY
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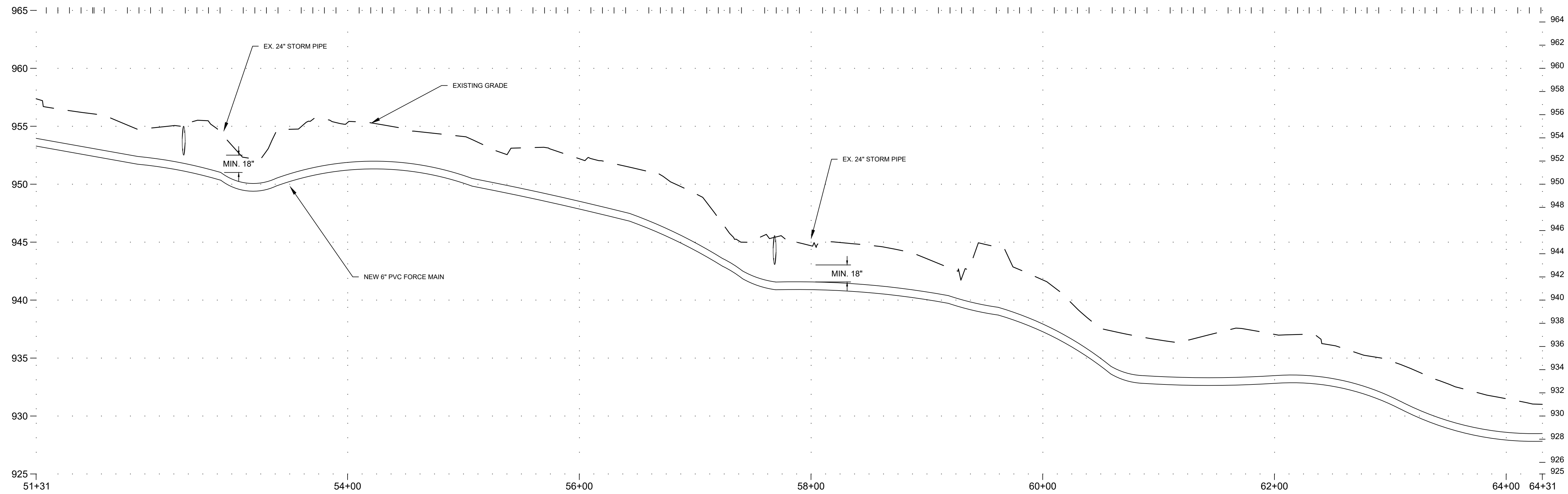
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DRAWING TITLE: FORCE MAIN - STA 25+00 TO STA 38+00

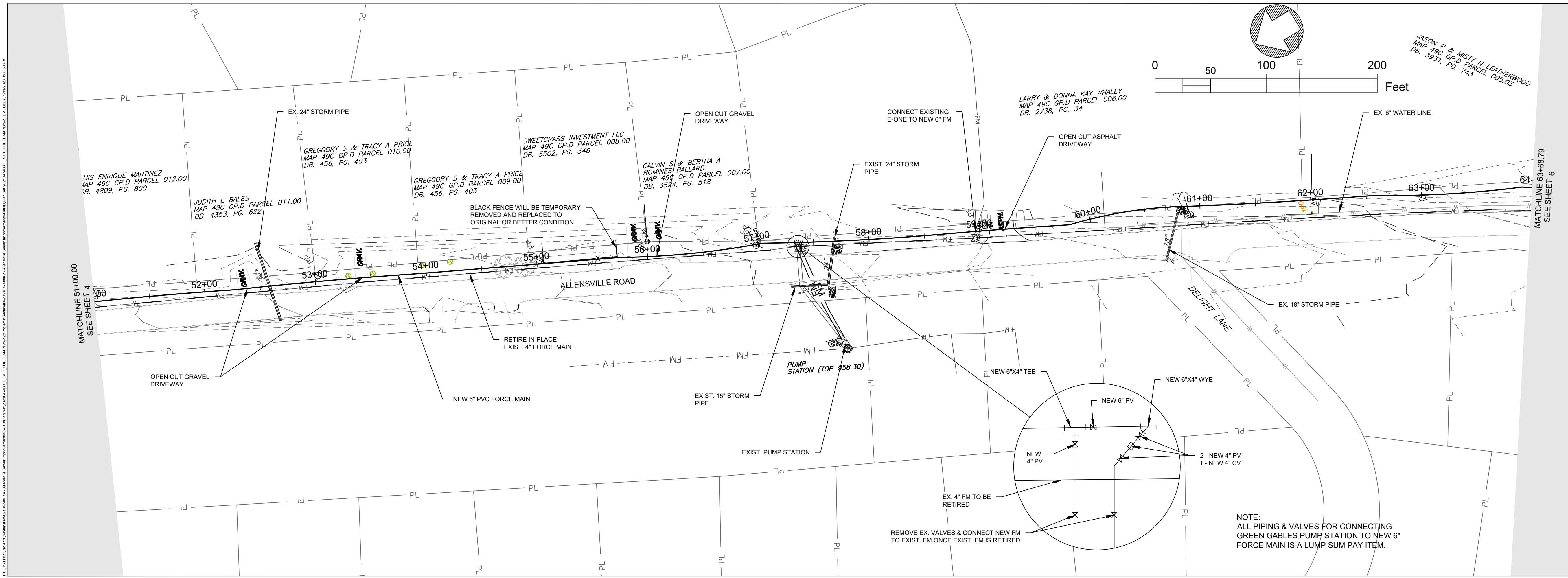
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PROJ. DATE:	MARCH 2022
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ALLENSVILLE FORCE MAIN PROFILE
 H: 1"=50
 V: 1"=5



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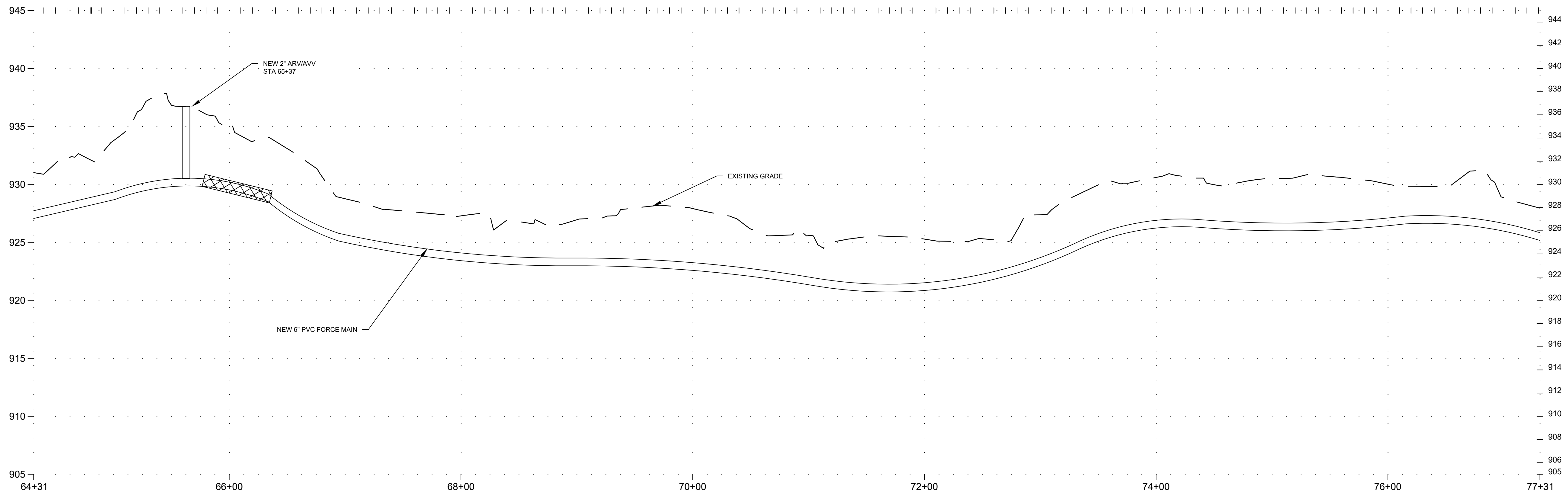
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 DRAWING TITLE:
 FORCE MAIN - STA 51+00 TO STA 64+00

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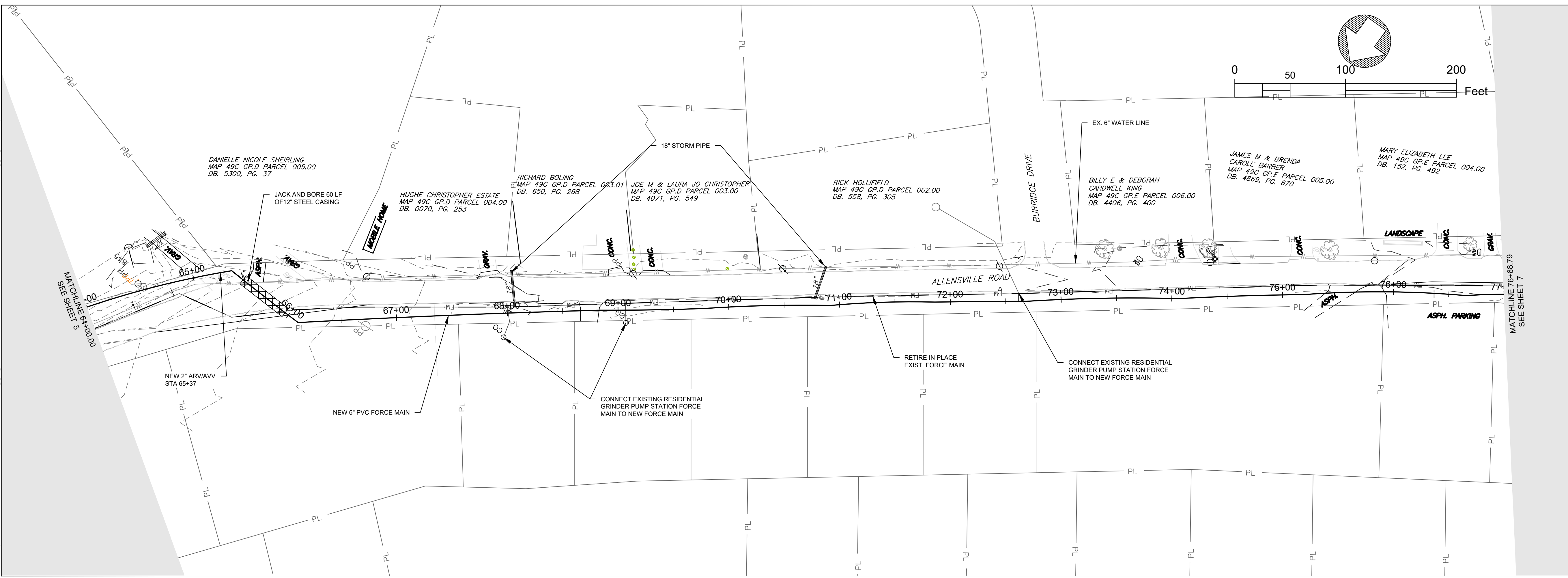
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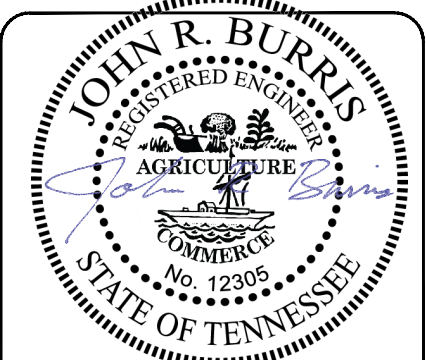
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ALLENSVILLE FORCE MAIN PROFILE
 H: 1"=50
 V: 1"=5



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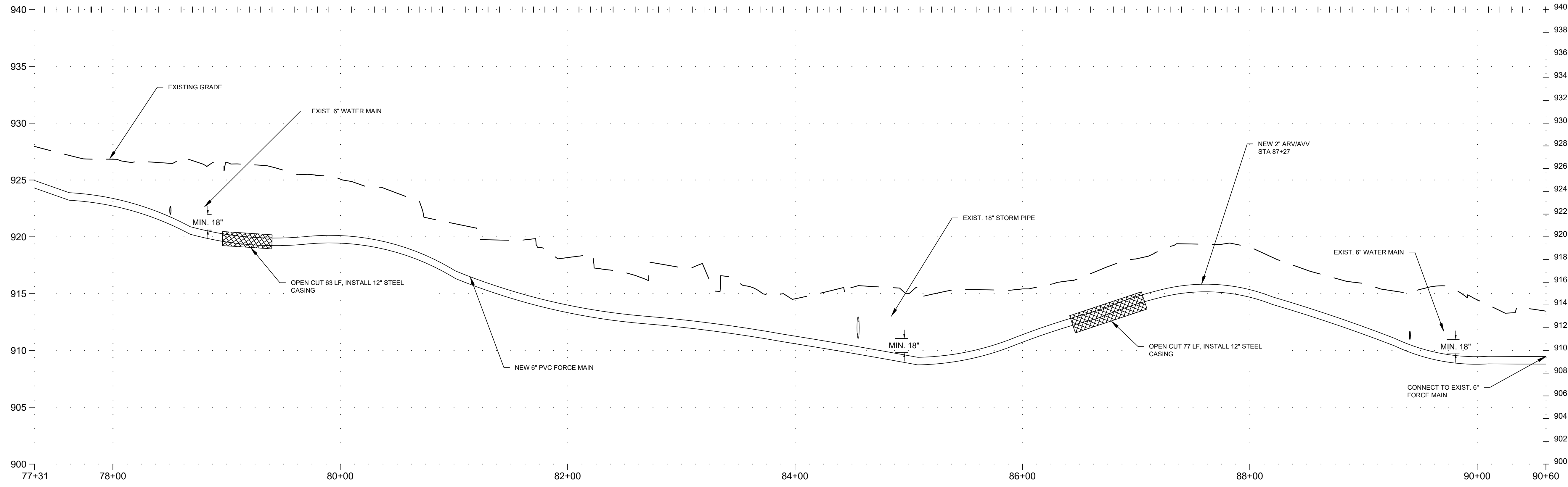
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PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: FORCE MAIN - STA 64+00 TO STA 77+00

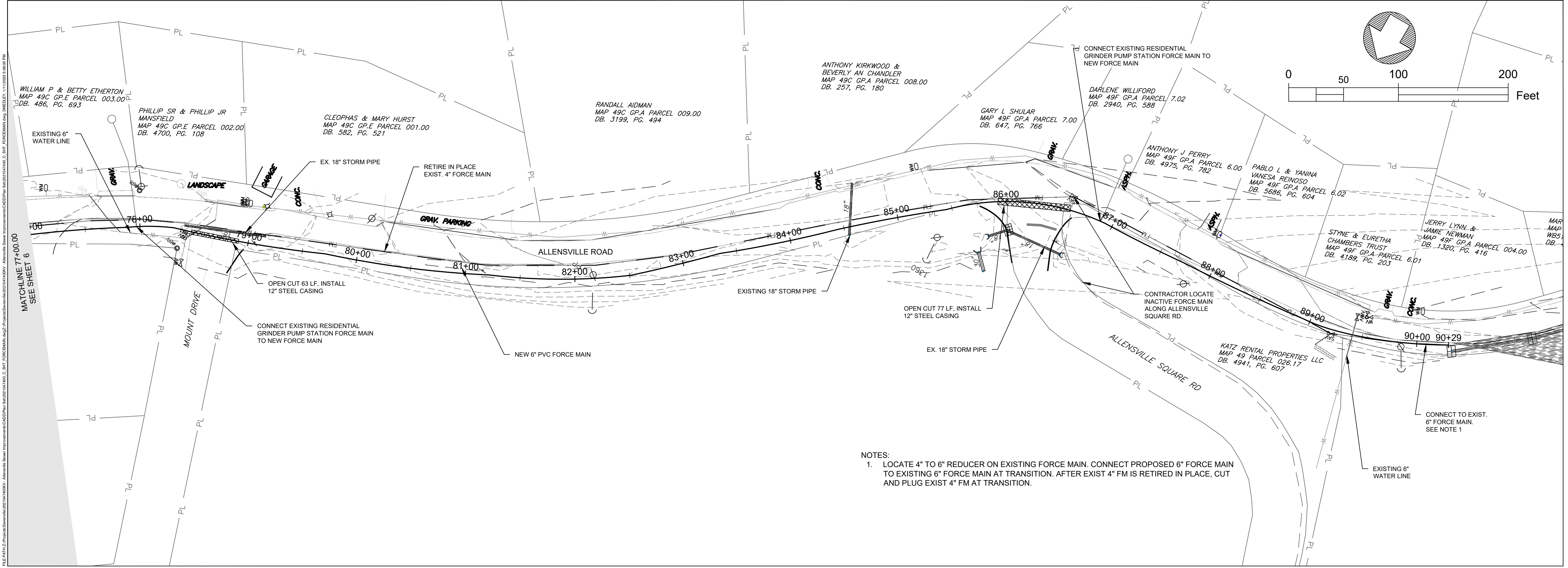
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PROJ. DATE:	MARCH 2022
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ALLENSVILLE FORCE MAIN PROFILE
 H: 1"=50
 V: 1"=5



NOTES:
 1. LOCATE 4" TO 6" REDUCER ON EXISTING FORCE MAIN. CONNECT PROPOSED 6" FORCE MAIN TO EXISTING 6" FORCE MAIN AT TRANSITION. AFTER EXIST 4" FM IS RETIRED IN PLACE, CUT AND PLUG EXIST 4" FM AT TRANSITION.

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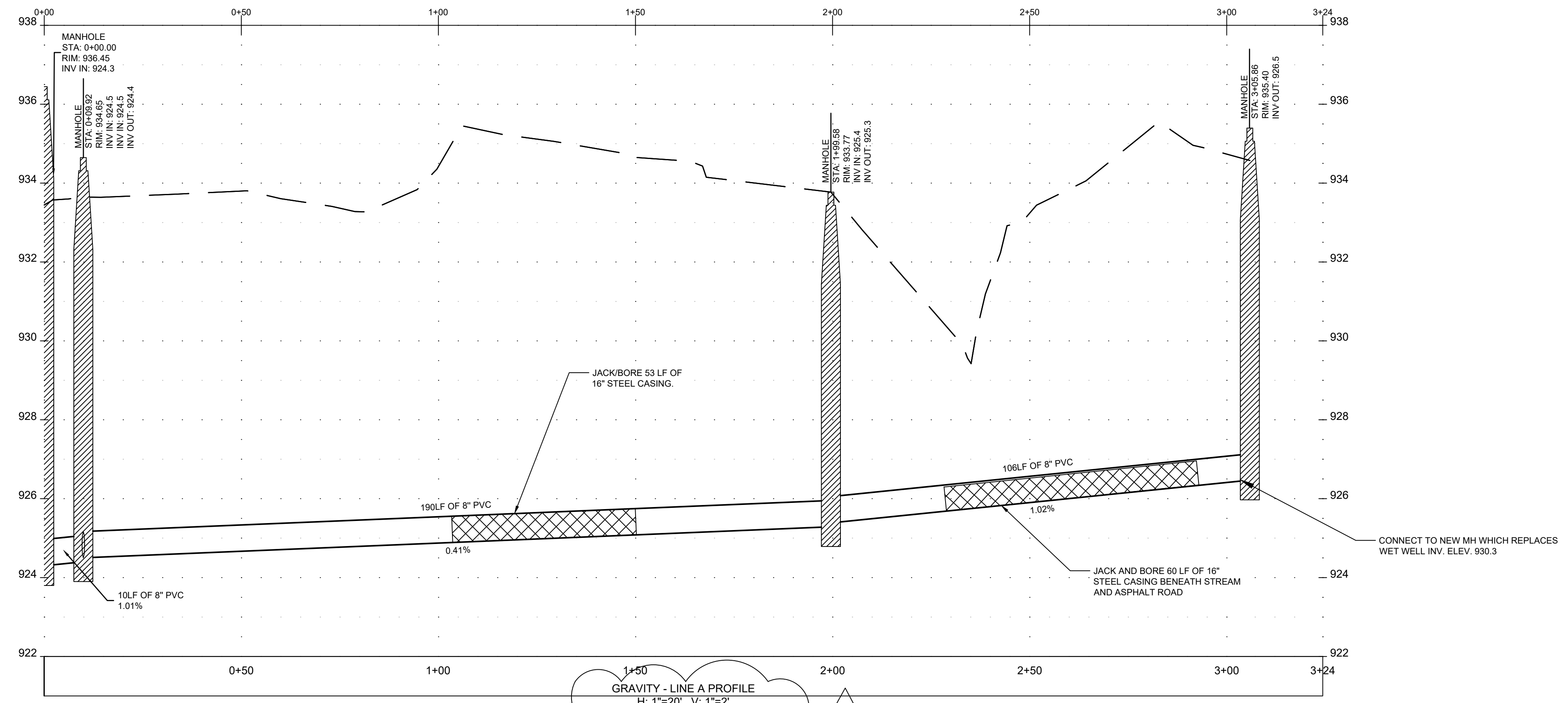
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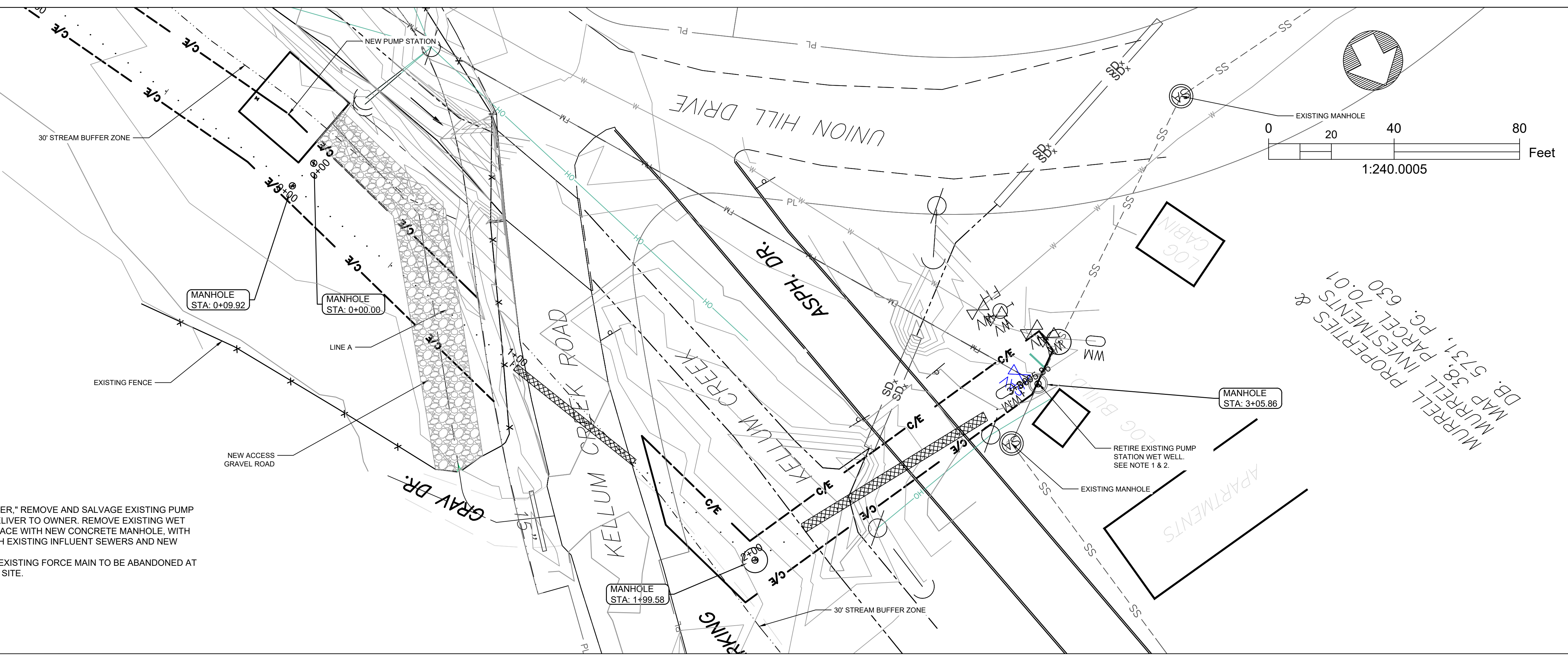
PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: FORCE MAIN - STA 77+00 TO STA 90+29

DRAWING STATUS
 PROJ. MGR.: JB
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 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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GRAVITY - LINE A PROFILE
 H: 1"=20' V: 1"=2'
 1



- NOTE:
1. "WHEN AUTHORIZED BY OWNER," REMOVE AND SALVAGE EXISTING PUMP STATION EQUIPMENT AND DELIVER TO OWNER. REMOVE EXISTING WET WELL STRUCTURE AND REPLACE WITH NEW CONCRETE MANHOLE, WITH INVERT ELEVATION TO MATCH EXISTING INFLUENT SEWERS AND NEW EFFLUENT GRAVITY SEWER.
 2. CUT, CAP/PLUG, AND BLOCK EXISTING FORCE MAIN TO BE ABANDONED AT THE DEMOLISHED WET WELL SITE.

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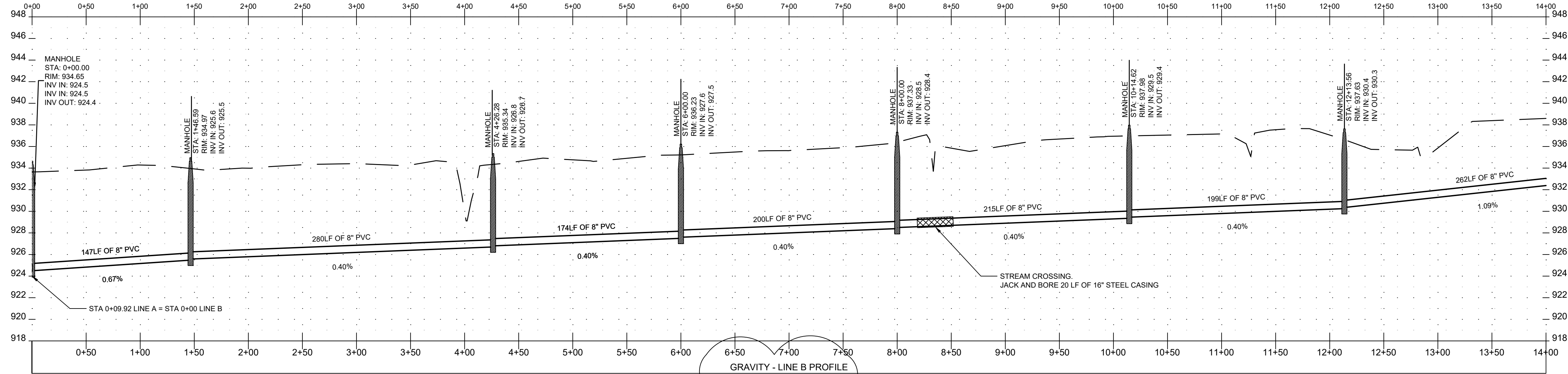
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NO.	DATE	DESCRIPTION
1	07-29-2022	REVISED SCALE DISCREPANCY
0	04-08-2022	INITIAL ISSUE

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: GRAVITY LINE A - STA 0+00 TO STA 3+05.83

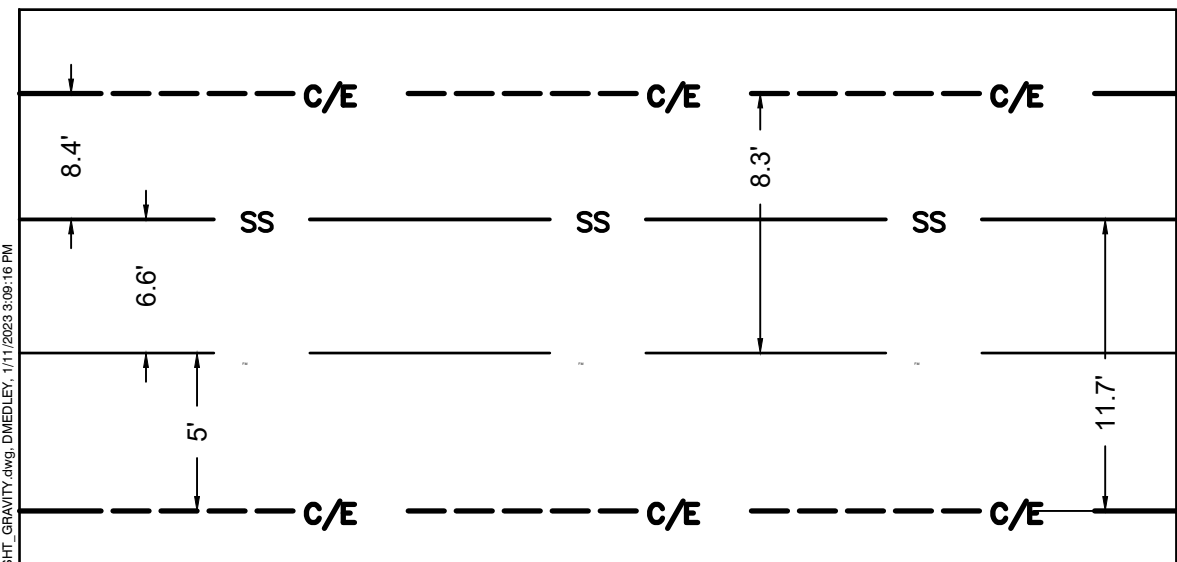
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 PROJ. MGR.: JB
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 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
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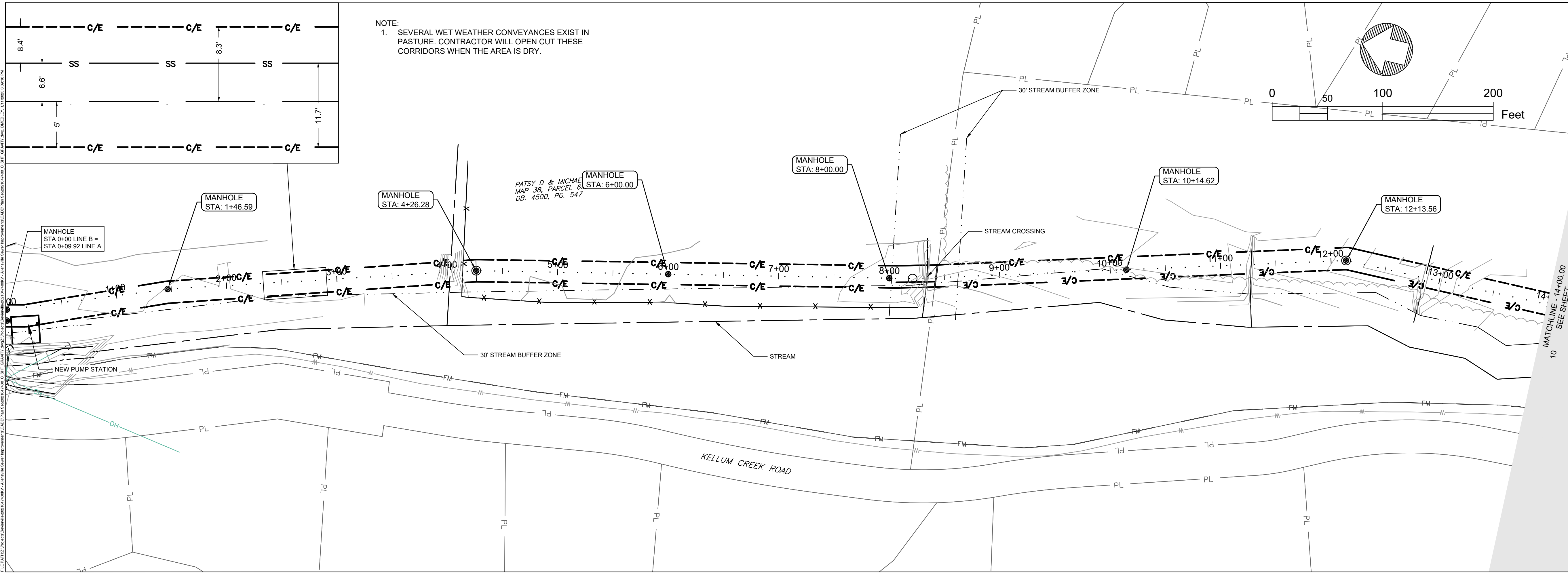


GRAVITY - LINE B PROFILE
H: 1"=60' V: 1"=6'

1

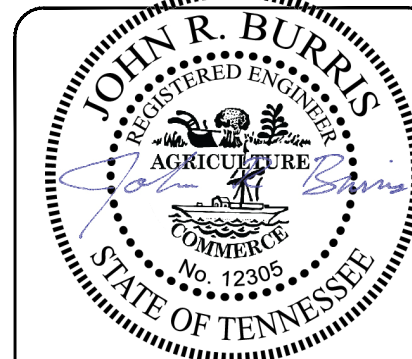


NOTE:
1. SEVERAL WET WEATHER CONVEYANCES EXIST IN PASTURE. CONTRACTOR WILL OPEN CUT THESE CORRIDORS WHEN THE AREA IS DRY.



MATCHLINE - 14+00.00
SEE SHEET 10

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NO.	DATE	DESCRIPTION
1	07-29-2022	REVISED SCALE DISCREPANCY
2	04-06-2022	INITIAL ISSUE

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
DRAWING TITLE: GRAVITY LINE B - STA 0+00 TO STA 14+00

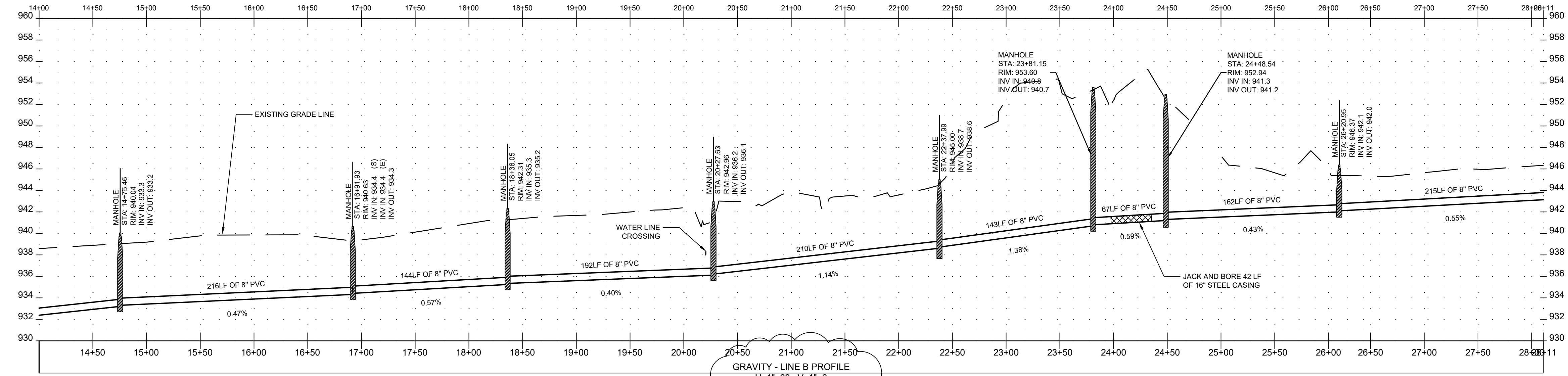
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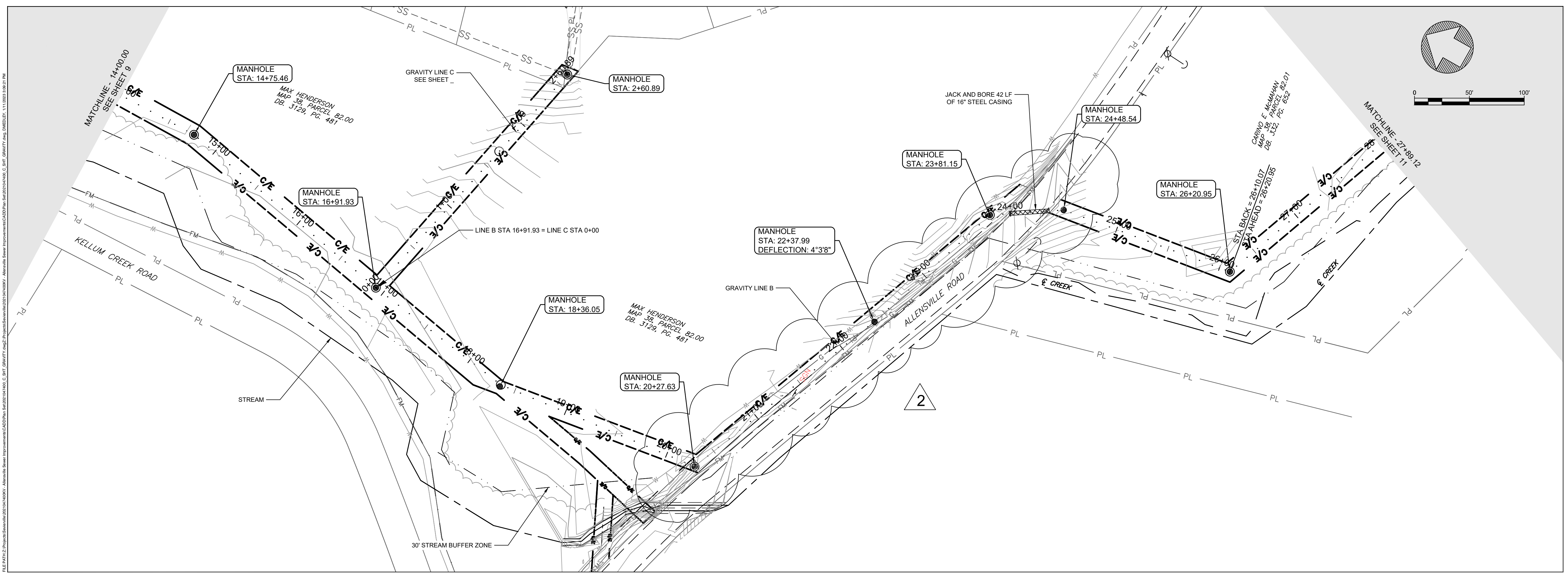
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GRAVITY - LINE B PROFILE
 H: 1"=60' V: 1"=6'

1



2

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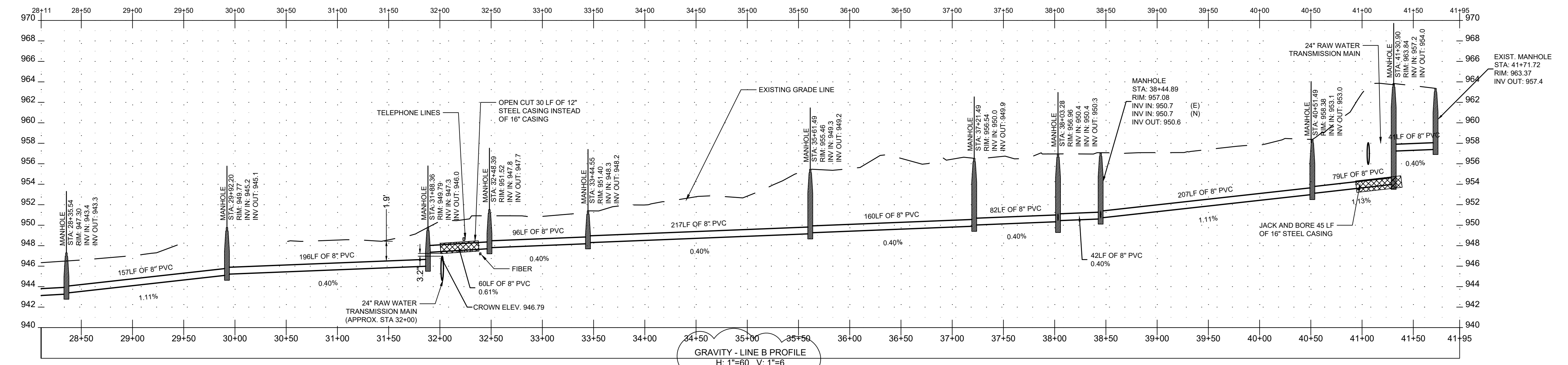
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NO.	DATE	DESCRIPTION
1	04-06-2022	INITIAL ISSUE
2	07-29-2022	REVISED SCALE DISCREPANCY
3	01-10-2023	SEWER ALIGNMENT SHIFT

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: GRAVITY LINE B - STA 14+00 TO STA 28+00

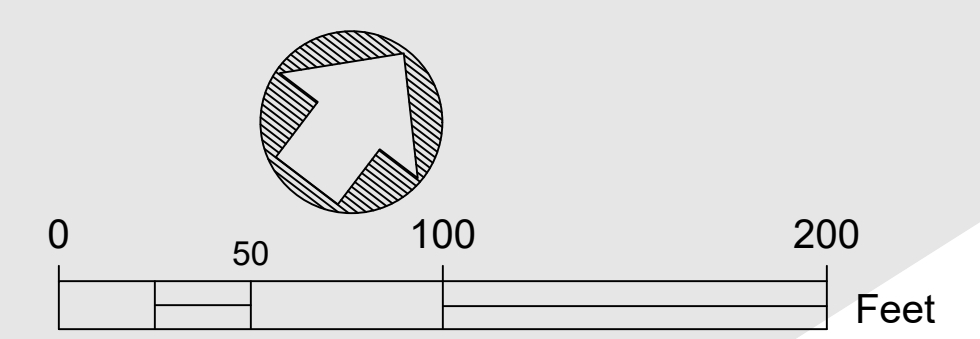
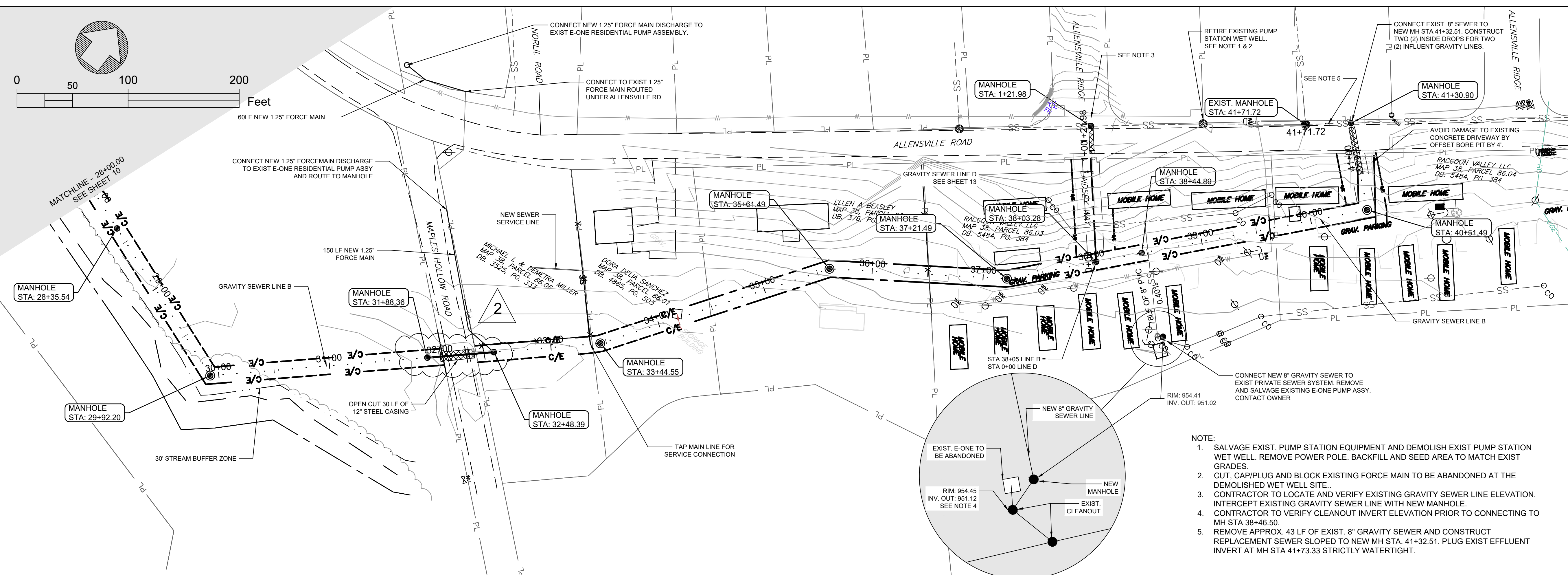
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 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
10
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GRAVITY - LINE B PROFILE
H: 1"=60' V: 1"=6'

1



- NOTE:
1. SALVAGE EXIST. PUMP STATION EQUIPMENT AND DEMOLISH EXIST PUMP STATION WET WELL. REMOVE POWER POLE. BACKFILL AND SEED AREA TO MATCH EXIST GRADES.
 2. CUT, CAP/PLUG AND BLOCK EXISTING FORCE MAIN TO BE ABANDONED AT THE DEMOLISHED WET WELL SITE.
 3. CONTRACTOR TO LOCATE AND VERIFY EXISTING GRAVITY SEWER LINE ELEVATION. INTERCEPT EXISTING GRAVITY SEWER LINE WITH NEW MANHOLE.
 4. CONTRACTOR TO VERIFY CLEANOUT INVERT ELEVATION PRIOR TO CONNECTING TO MH STA. 38+46.50.
 5. REMOVE APPROX. 43 LF OF EXIST. 8\"/>

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NO.	DATE	DESCRIPTION
1	01-10-2023	REVISED CROSSING FROM BORE TO OPEN CUT
2	07-29-2022	REVISED SCALE DISCREPANCY
3	04-08-2022	INITIAL ISSUE

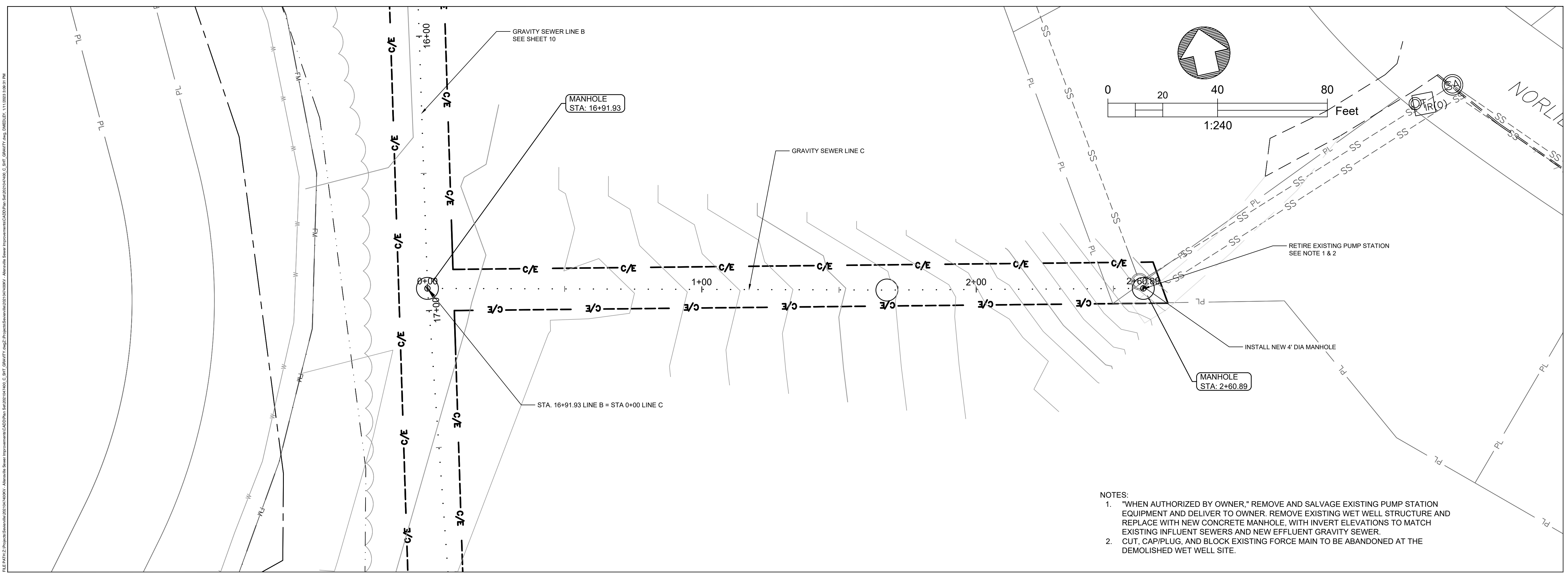
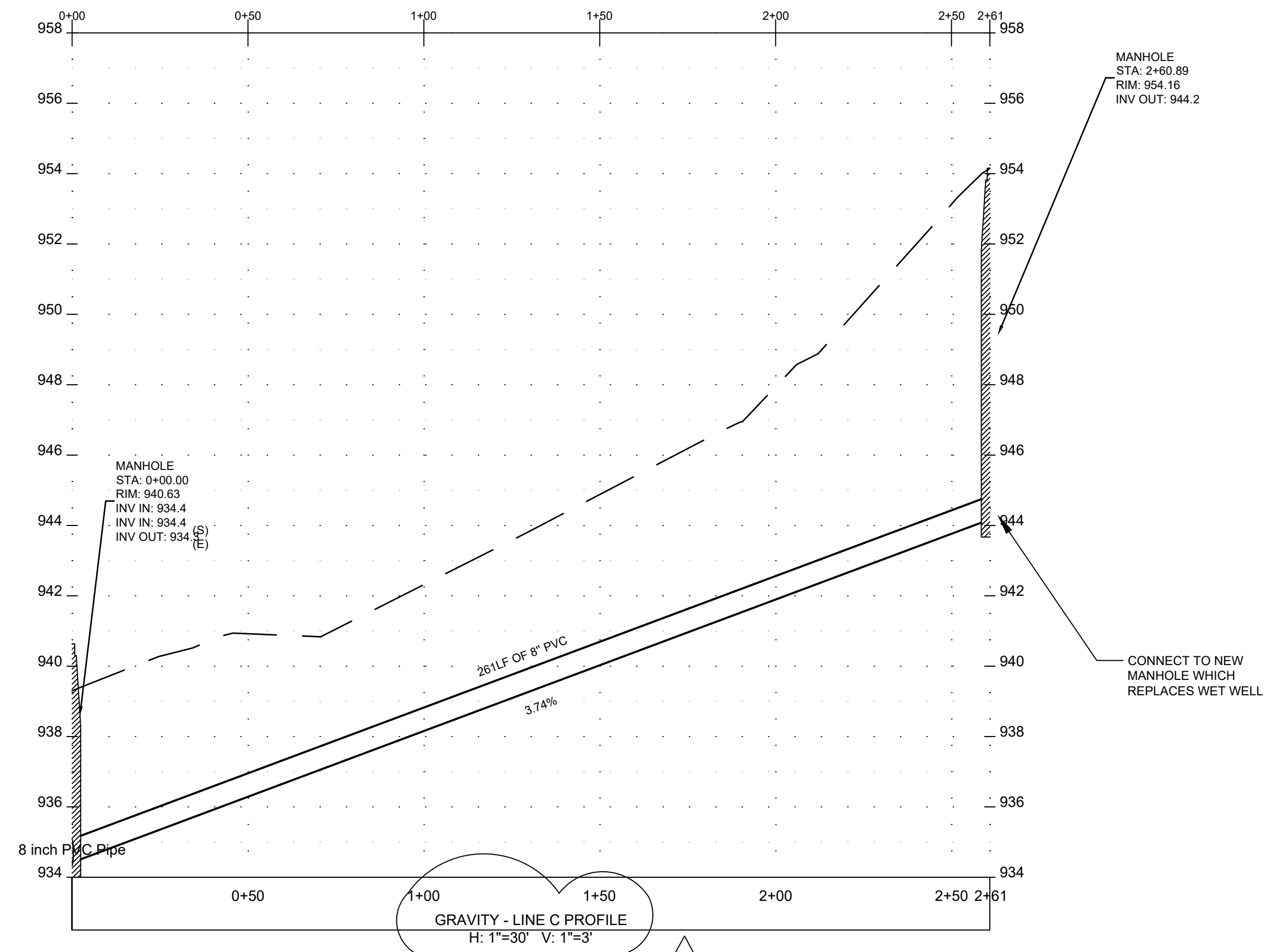
PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
DRAWING TITLE: GRAVITY LINE B - STA 28+00 TO STA 41+73.04

DRAWING STATUS

PROJ. MGR.:	JB
DESIGN BY:	DWM
DRAWN BY:	DWM
PROJ. DATE:	MARCH 2022
DRAWING NUMBER:	11

WKD PROJ. NO.: 20210474.00.KV

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- NOTES:
- "WHEN AUTHORIZED BY OWNER." REMOVE AND SALVAGE EXISTING PUMP STATION EQUIPMENT AND DELIVER TO OWNER. REMOVE EXISTING WET WELL STRUCTURE AND REPLACE WITH NEW CONCRETE MANHOLE, WITH INVERT ELEVATIONS TO MATCH EXISTING INFLUENT SEWERS AND NEW EFFLUENT GRAVITY SEWER.
 - CUT, CAP/PLUG, AND BLOCK EXISTING FORCE MAIN TO BE ABANDONED AT THE DEMOLISHED WET WELL SITE.

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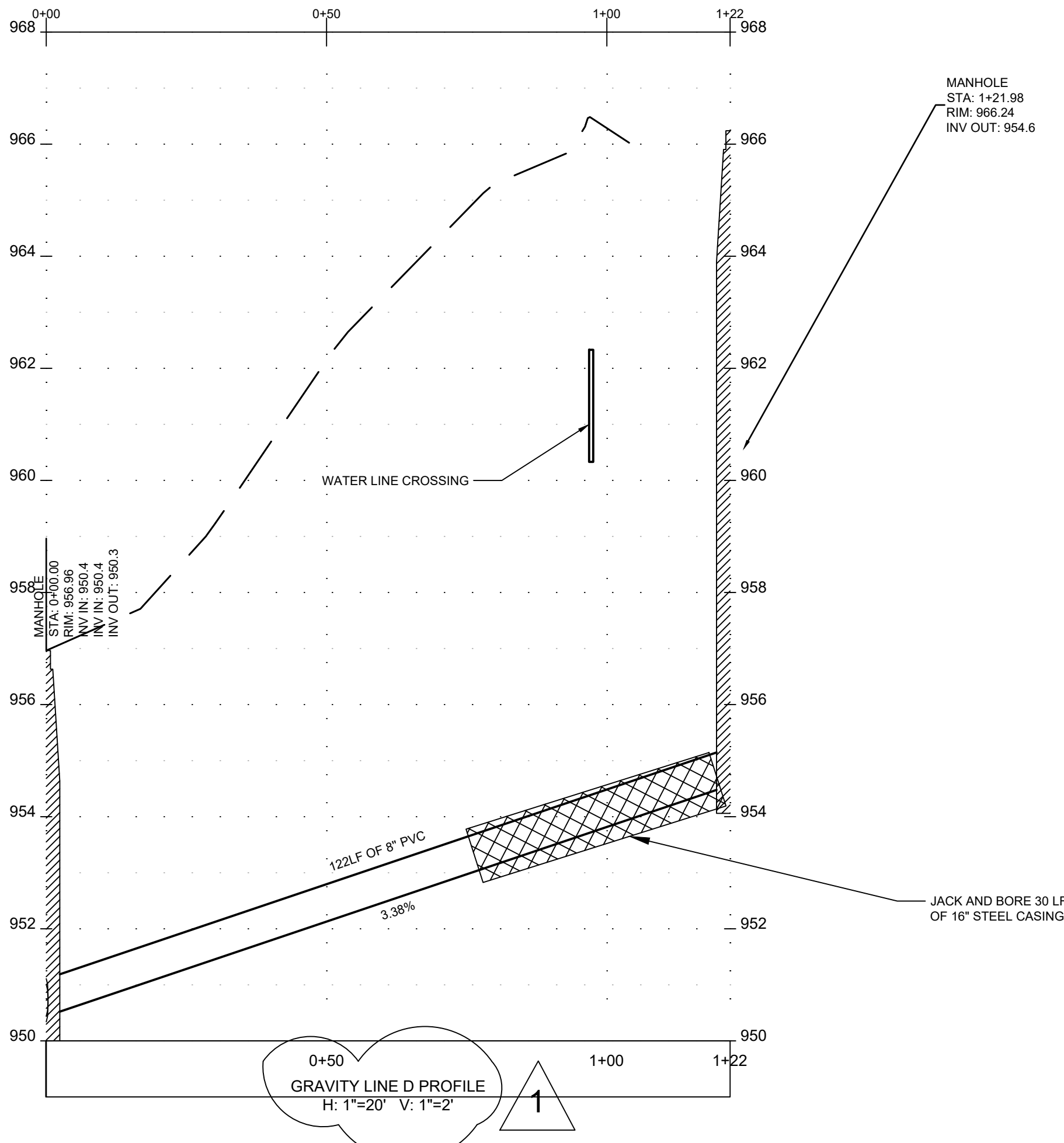
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REVISION RECORD		DATE	DESCRIPTION
1	07-29-2022		REVISED SCALE DISCREPANCY
0	04-06-2022		INITIAL ISSUE

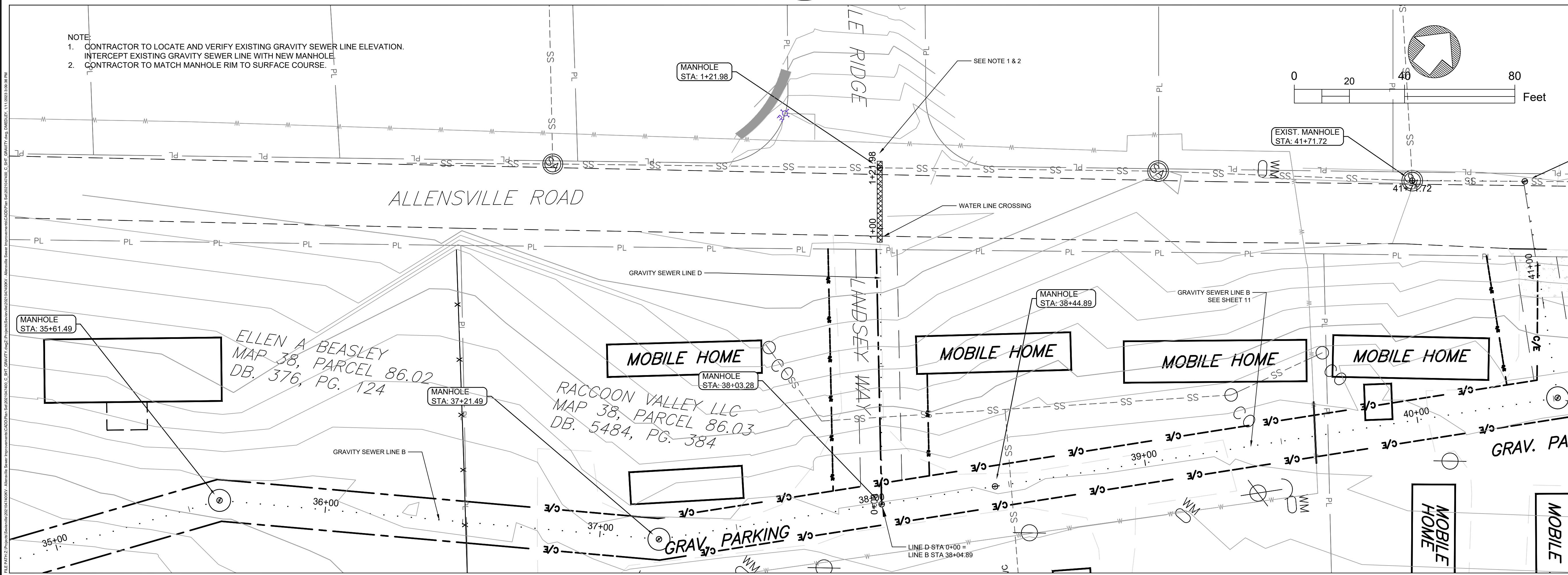
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 DRAWING TITLE: GRAVITY LINE C - STA 0+00 TO STA 2+60.89

DRAWING STATUS
 PROJ. MGR.: JB
 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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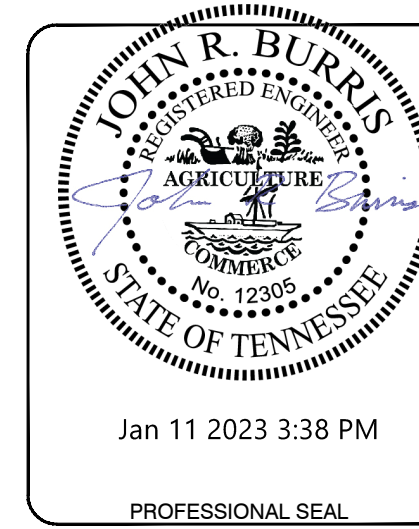
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NOTE:
 1. CONTRACTOR TO LOCATE AND VERIFY EXISTING GRAVITY SEWER LINE ELEVATION.
 2. INTERCEPT EXISTING GRAVITY SEWER LINE WITH NEW MANHOLE.
 3. CONTRACTOR TO MATCH MANHOLE RIM TO SURFACE COURSE.



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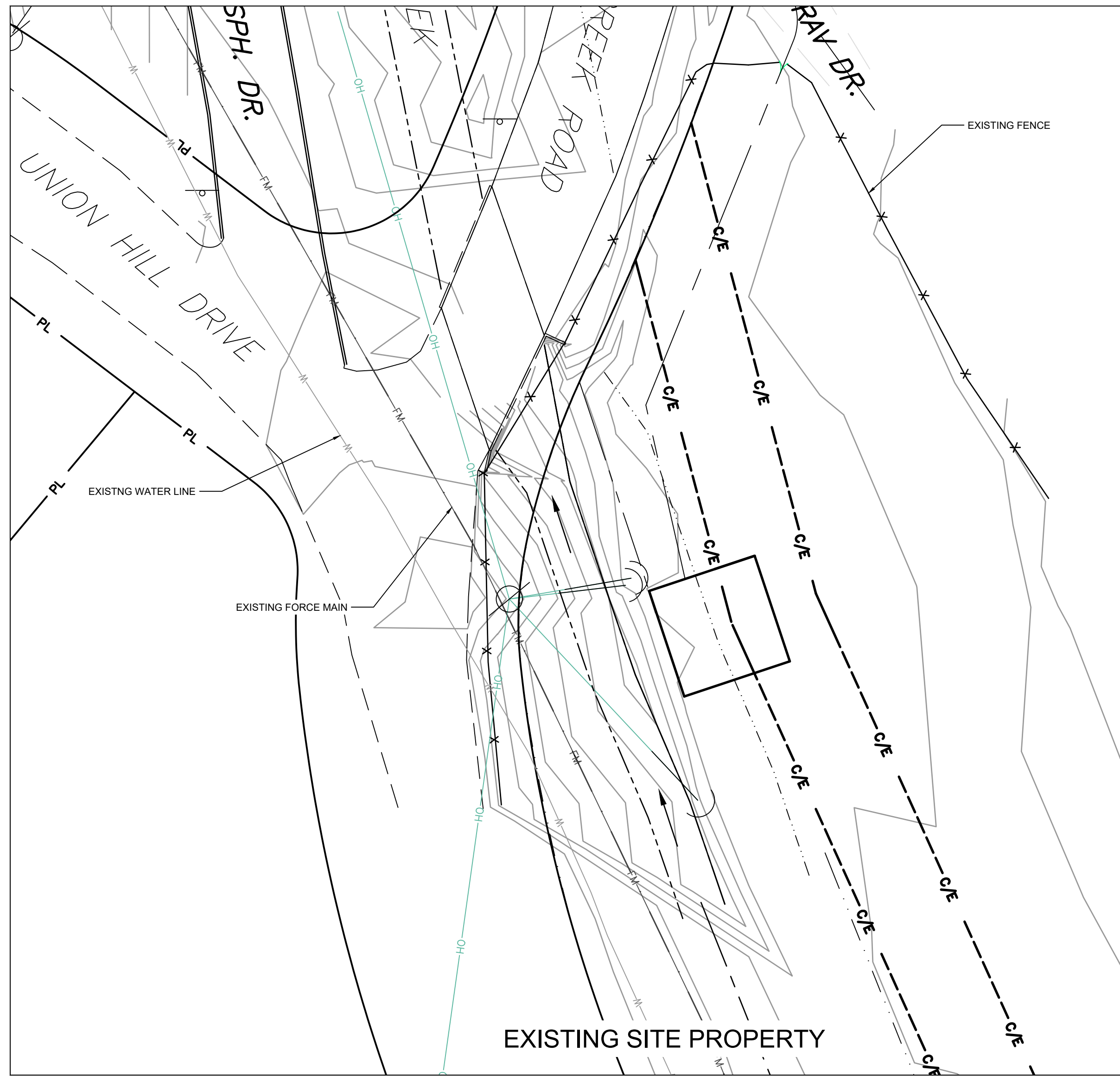
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2	04-08-2022	INITIAL ISSUE

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: GRAVITY LINE D - STA 0+00 TO STA 1+27.37

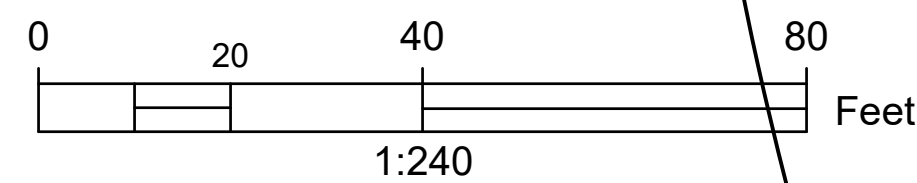
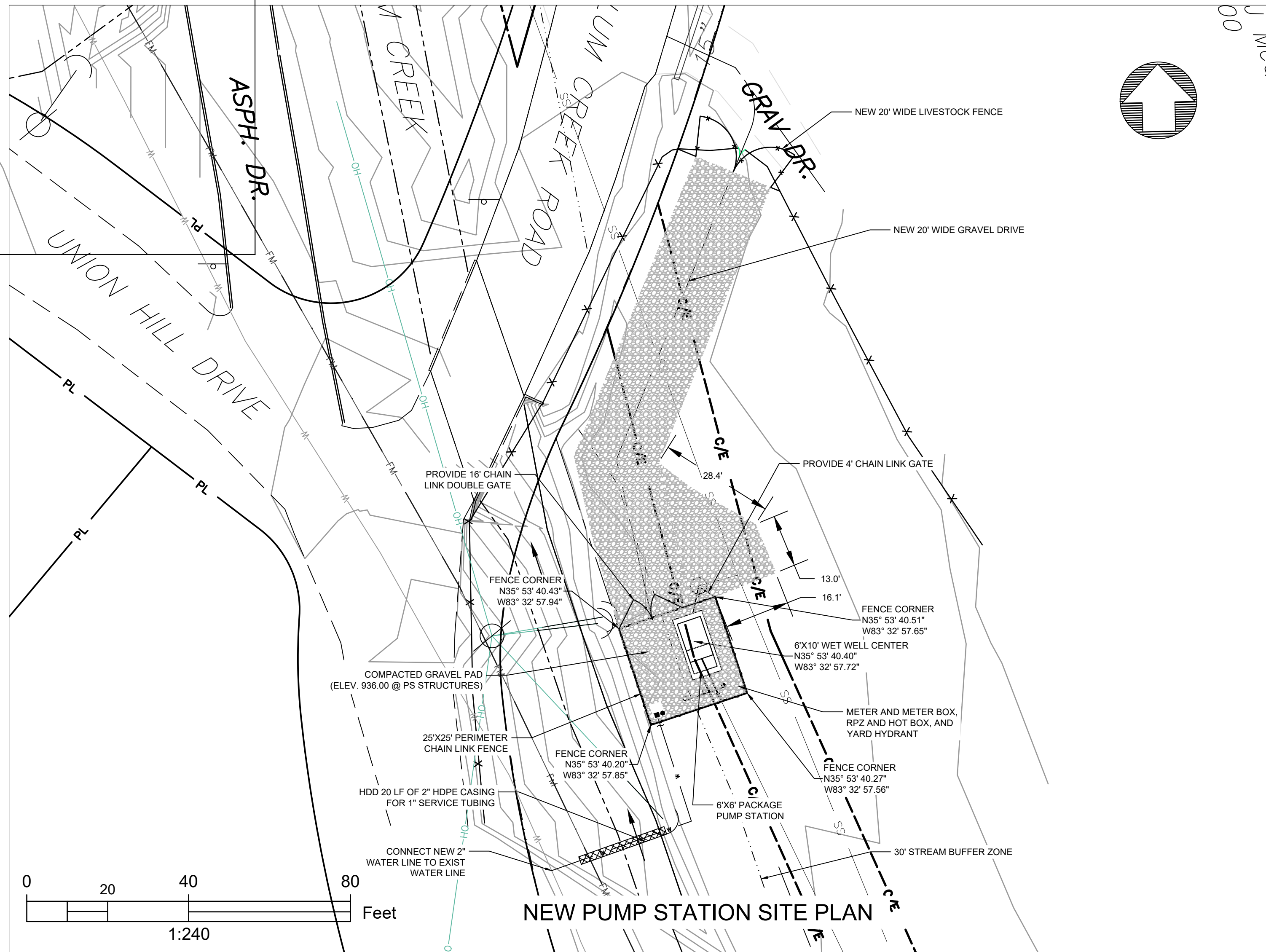
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 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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 WKD PROJ. NO.:
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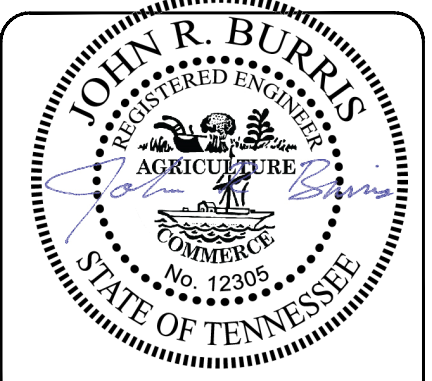


- NOTES:
- OWNER WILL CONNECT TO THE EXISTING POTABLE WATER SUPPLY AT LOCATION INDICATED. CONTRACTOR WILL HDD A 1" SERVICE UNDER CREEK AND ROUTE IT TO CORNER OF THE PS SITE INDICATED. PROVIDE WATER ASSEMBLIES SHOWN (METER AND METER BOX, RPZ AND HOT BOX, YARD HYDRANT, ETC.)



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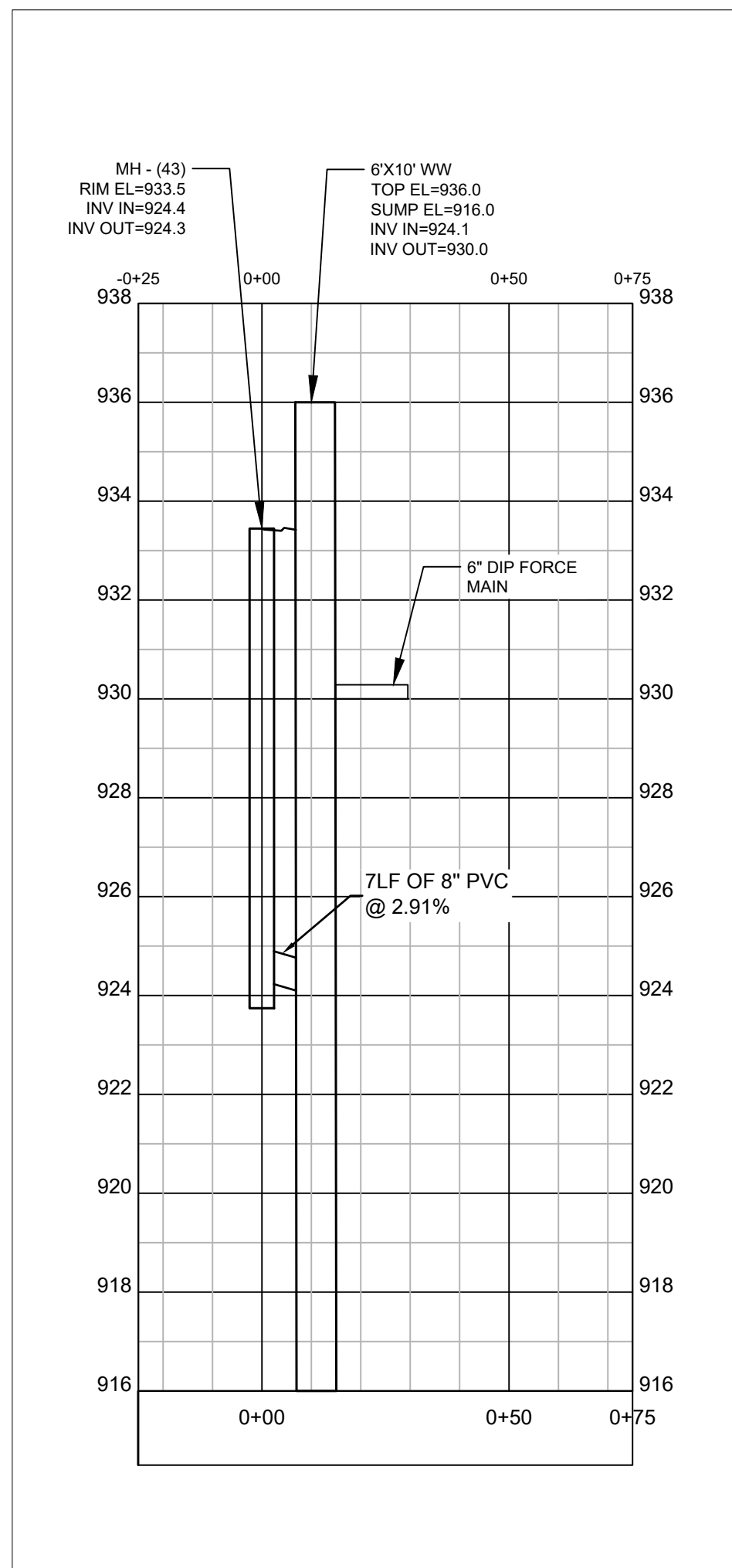
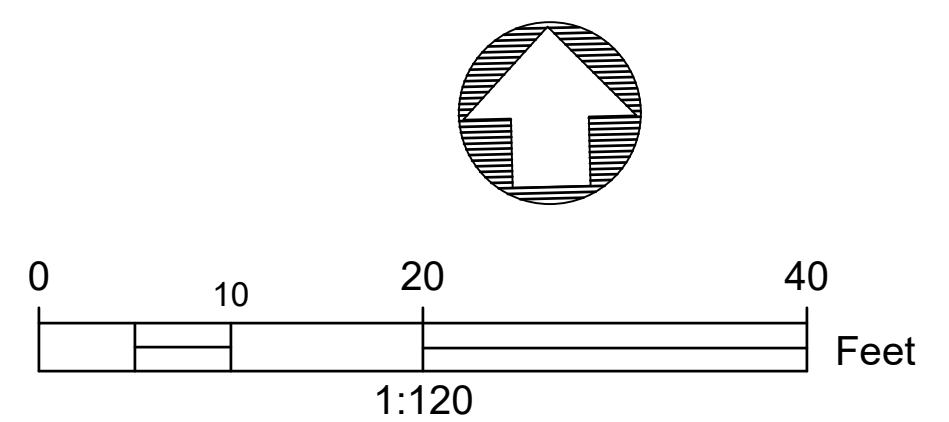
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NO.	DATE	INITIAL ISSUE	DESCRIPTION
1	04-09-2022		

PROJECT NAME: ALLENVILLE SEWER IMPROVEMENTS
DRAWING TITLE: PUMP STATION SITE PLAN

PROJ. MGR.: JB
DESIGN BY: DWM
DRAWN BY: DWM
PROJ. DATE: MARCH 2022
DRAWING NUMBER:
14
WKD PROJ. NO.:
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PROJ. DATE:	MARCH 2022
DRAWING NUMBER:	14.1
WKD PROJ. NO.:	20210474.00.KV

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS

DRAWING TITLE: PUMP STATION GRADING PLAN

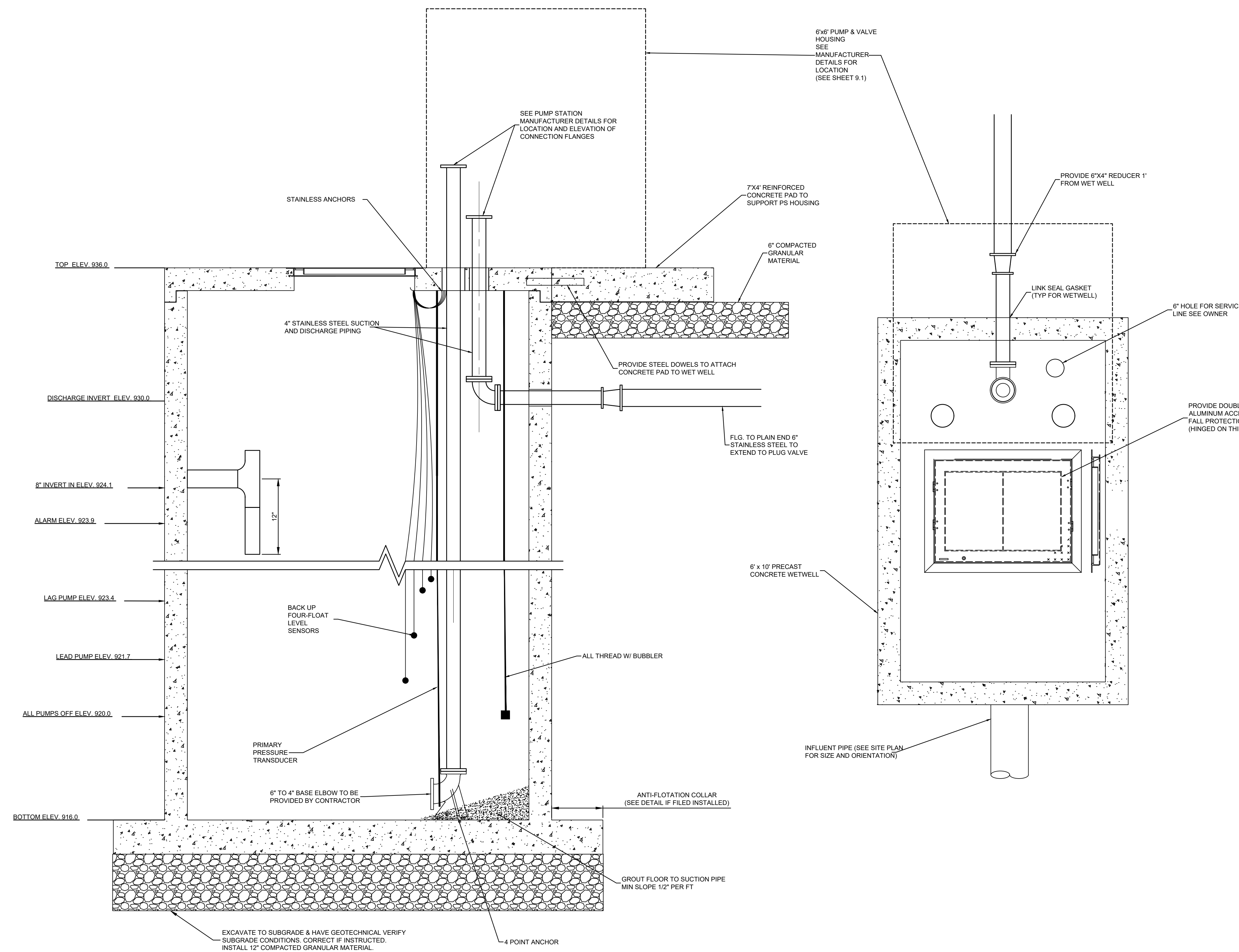
NO.	DATE	INITIAL ISSUE	DESCRIPTION
0	04-06-2022		

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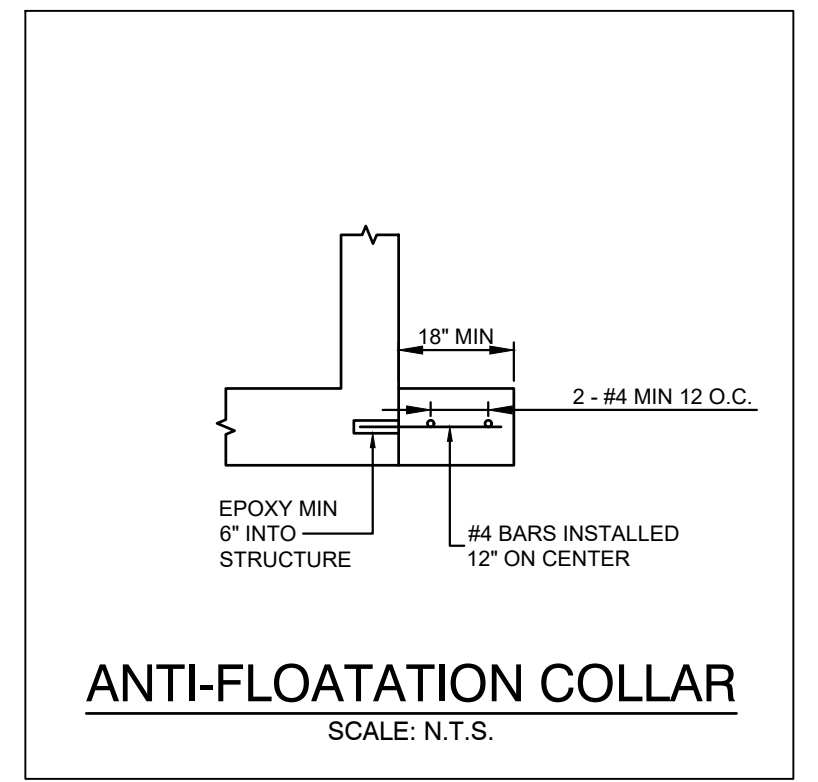


GENERAL NOTES

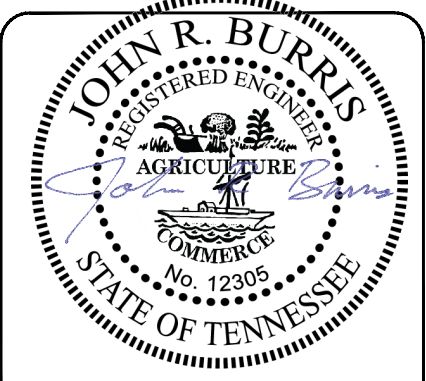
1. WET WELL PIPING IS FLANGED-END TO PLAIN-END STAINLESS STEEL, UNLESS NOTED OTHERWISE.
2. FOR ORIENTATION OF WET WELL SEE PUMP STATION SITE PLAN.
3. CONCRETE FOR STRUCTURES TO INCLUDE XYPEX C1000-R ADMIXTURE.
4. LOCATE PUMP AND PUMP BASE PER MFG'S SHOP DRAWINGS. CONTRACTOR TO FURNISH SS ANCHOR BOLTS PER APPROVED DRAWINGS.
5. CORE HOLE IN PRE-CAST WETWELL FOR NEW PIPE.
6. ALL PIPE OPENINGS IN WETWELL AND VALVE VAULT TO BE FITTED WITH LINK SEAL GASKETS.
7. LIFT STATION TO BE EQUIPPED WITH ALL 304 STAINLESS STEEL HARDWARE INCLUDING BUT NOT LIMITED TO LIFTING CHAINS, BOLTS, NUTS, GUIDE RAILS AND ANCHOR BOLTS.
8. PUMPS SHALL OPERATE IN A LEAD/LAG SEQUENCE AND BE ON AN ALTERNATING CYCLE.
9. PRESSURE TRANSDUCER TO PROVIDE PRIMARY PUMP CONTROL. SECONDARY FIVE FLOAT SYSTEM TO BE INSTALLED AS BACKUP.
10. JOINTS ON ALL PRECAST STRUCTURES TO BE SEALED UTILIZING BUYTL RUBBER SEALANT. INTERIOR OF ALL NEW OR REHABILITATED CONCRETE STRUCTURES TO BE LINED WITH OBIC EPOXY COATING.
11. CONTRACTOR TO COORDINATE SYSTEMS PANEL DESIGN WITH OWNER.
12. MINIMUM DISTANCE BETWEEN STRUCTURES SHALL BE NO LESS THAN 3 FT UNLESS NOTED OTHERWISE.
13. ALL HATCHED OPENING SHALL BE EQUIPPED WITH PROTECTIVE GRATING FACTORY ASSEMBLED WITH ALUMINUM HATCH.
14. PROTECTIVE GRATING IS NOT SHOWN IN DETAILS FOR CLARITY. CLEARANCE TO NEARBY DEVICES SHALL BE VERIFIED BY THE CONTRACTOR.
15. SUCTION AND DISCHARGE PIPING SHALL BE LOCATED AS INDICATE IN MANUFACTURERS SPECIFICATIONS.

PUMP SELECTION

1. PUMP: GORMAN-RUPP V3CSC-B-1
2. OPERATING POINT: 300 GPM @ 105 FT TDH
3. IMPELLER: 9 IN.
4. MOTOR: 25 HP



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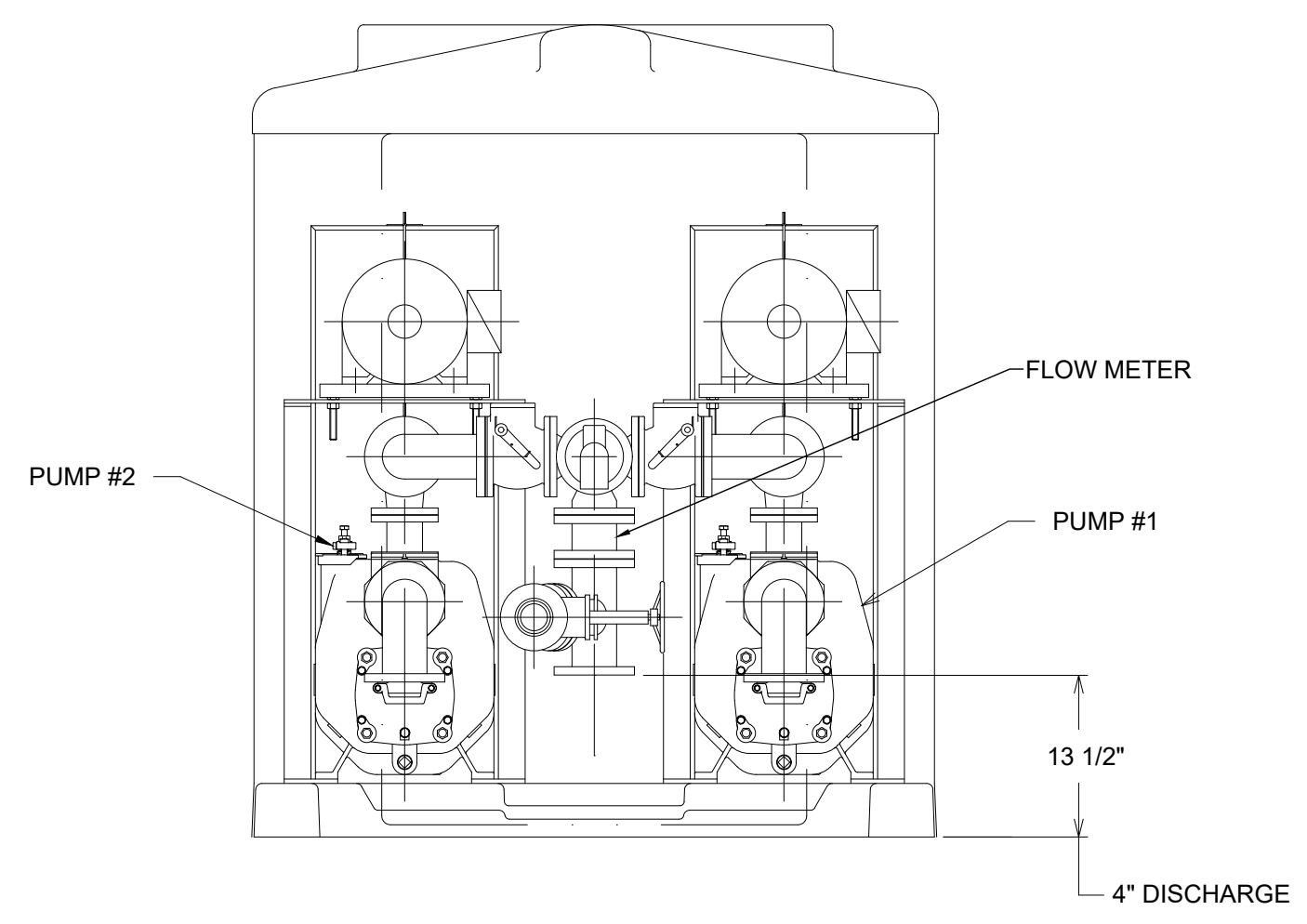
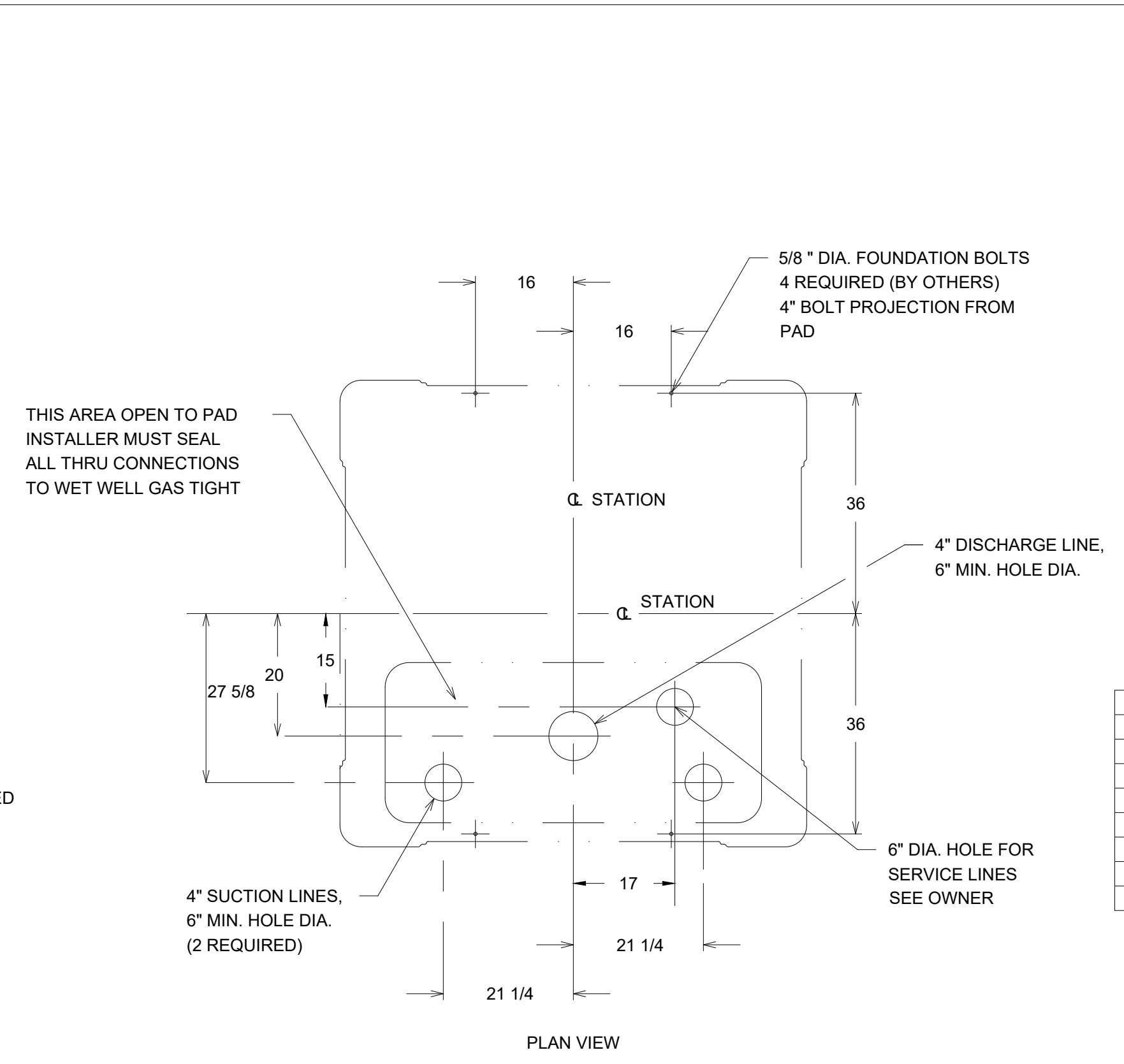
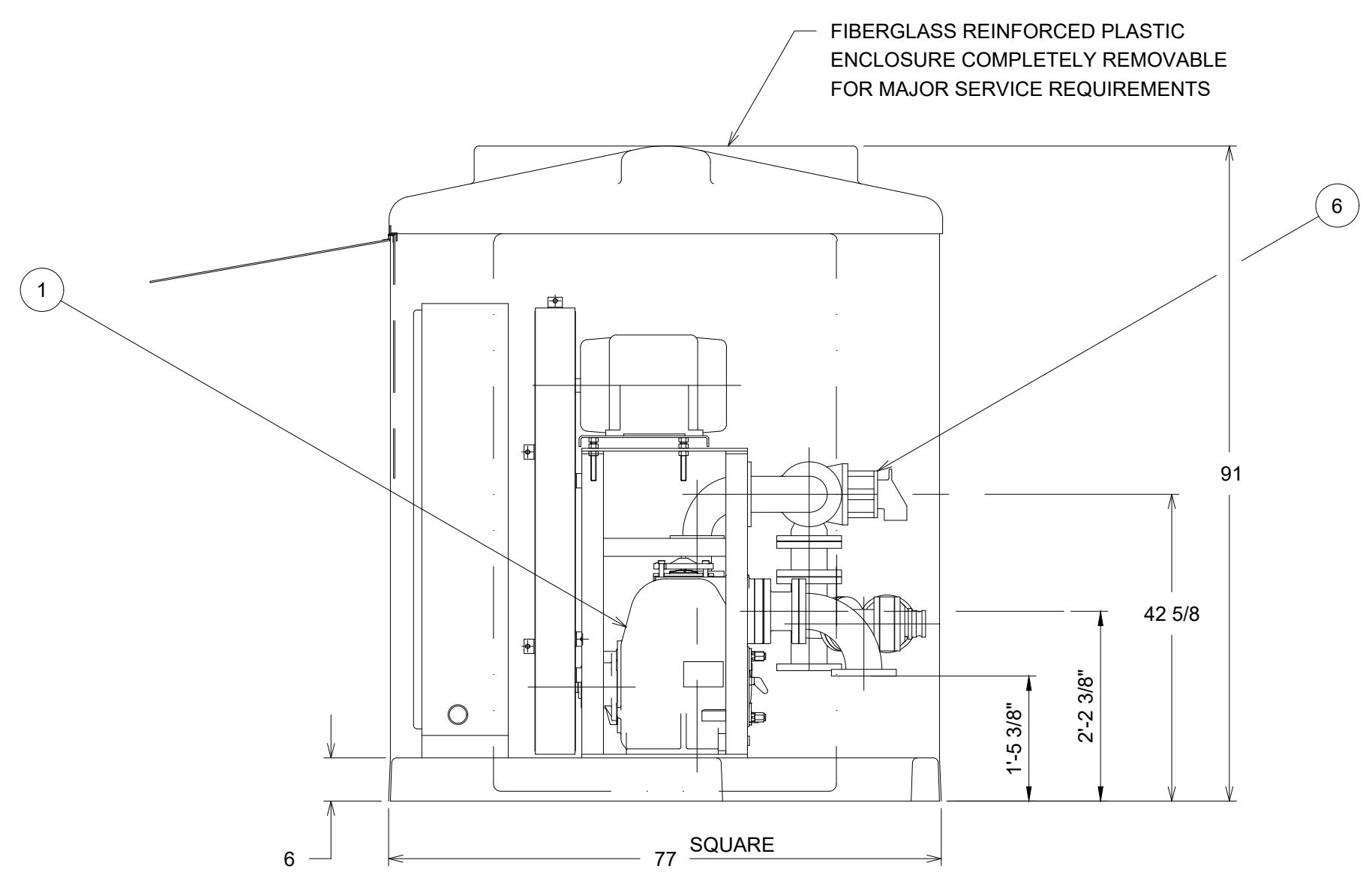
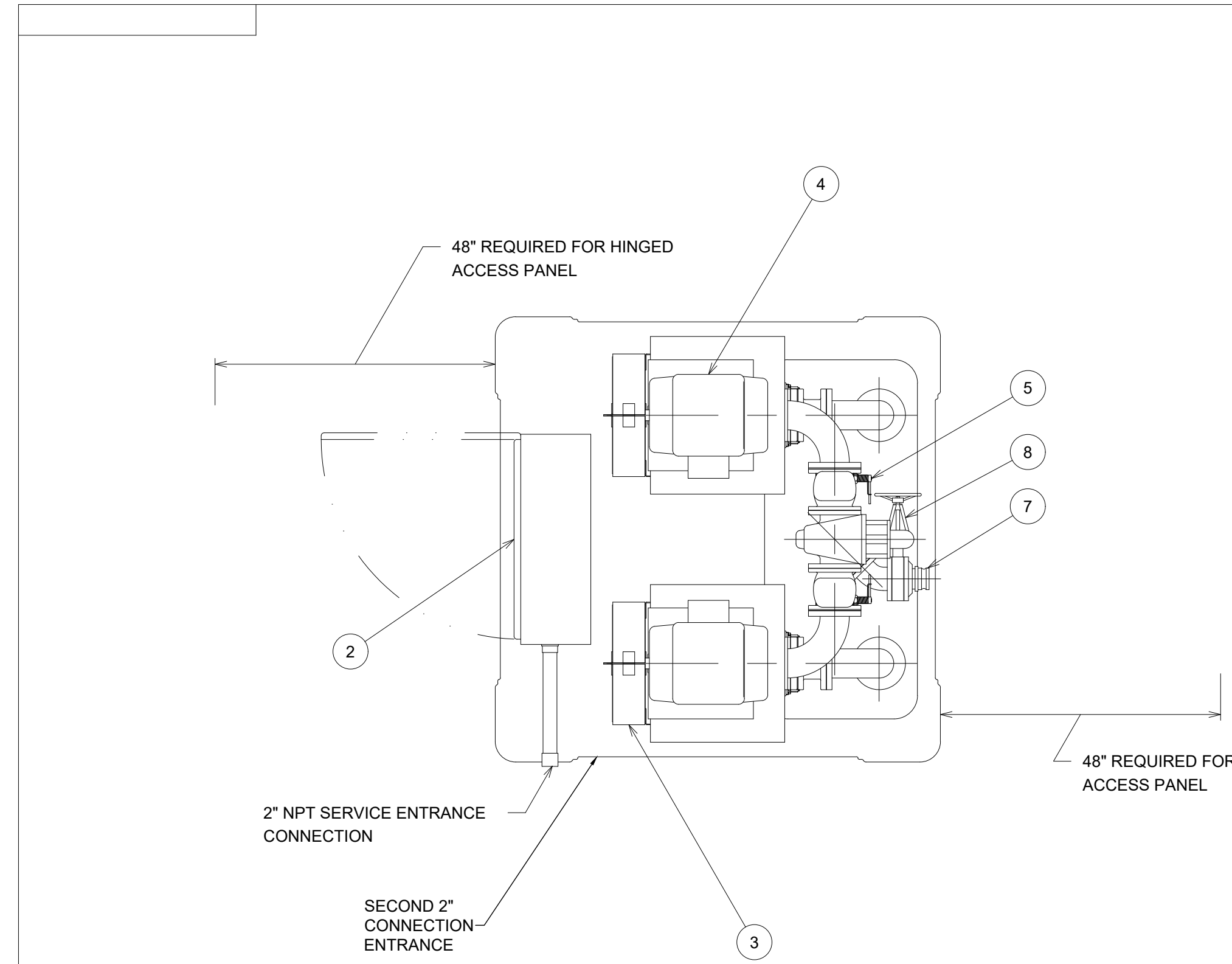
NO.	DATE	INITIAL ISSUE	DESCRIPTION

PROJECT NAME: ALLENSVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: PUMP STATION DETAILS

DRAWING STATUS
 PROJ. MGR.: JB
 DESIGN BY: DWM
 DRAWN BY: DWM
 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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 WKD PROJ. NO.:
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SYM	REVISIONS		DR/CK
	DATE	RECORD	

ITEM	DESCRIPTION	MATERIAL & SIZE
1	PUMP	CAST IRON V3-B
2	CONTROL PANEL	STAINLESS STEEL
3	BELT GUARD ASSY	STEEL
4	MOTOR	CAST IRON
5	DISCHARGE CHECK VALVE	CAST IRON 4"
6	DISCHARGE PLUG VALVE	CAST IRON 4" 3-WAY
7	OPW ADAPTER	ALUMINUM
8	BY-PASS GATE VALVE	CAST IRON 3"

NOTE
CUSTOMER SUCTION AND DISCHARGE CONNECTIONS ARE 125# FLANGED

V3-B, 4" X 4" X 4"
4" X 4" X 6" WITH INCREASER
WITH PORTABLE PUMP CONNECTION

46146093.S01.DGN

		THE GORMAN-RUPP CO. MANSFIELD, OHIO ST. THOMAS, ONTARIO	
NAME 6' X 6' ABOVEGROUND SEWAGE LIFT STATION WITH DUPLEX V3-B PUMPS			
DRN. BW	CHK. BM	APP. BM	DATE 10-11-10
D	46146-093		SERIAL NO.

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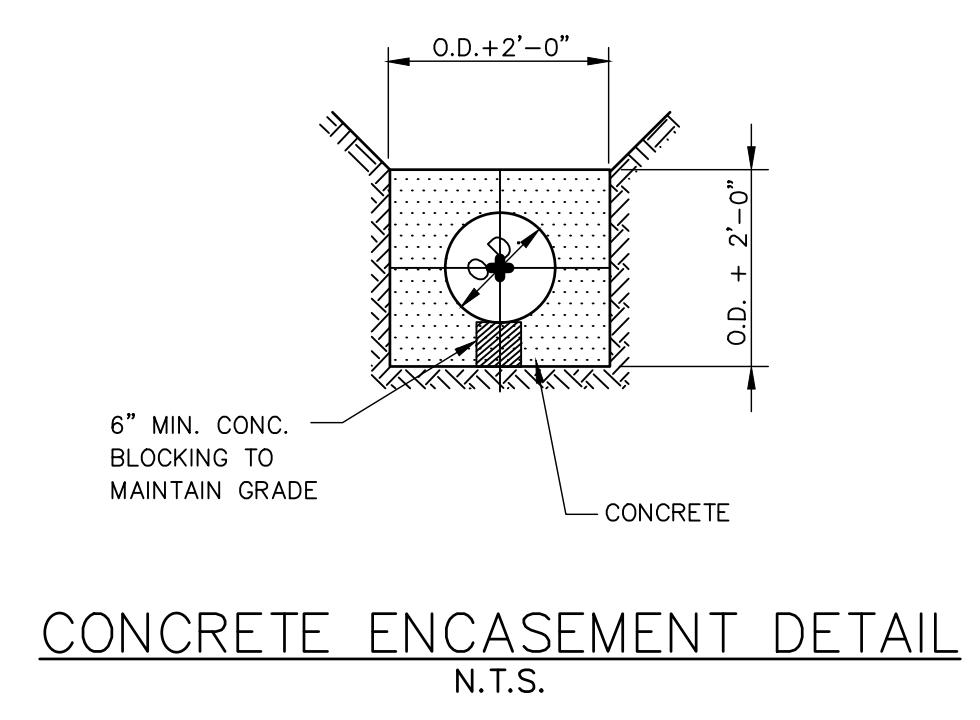
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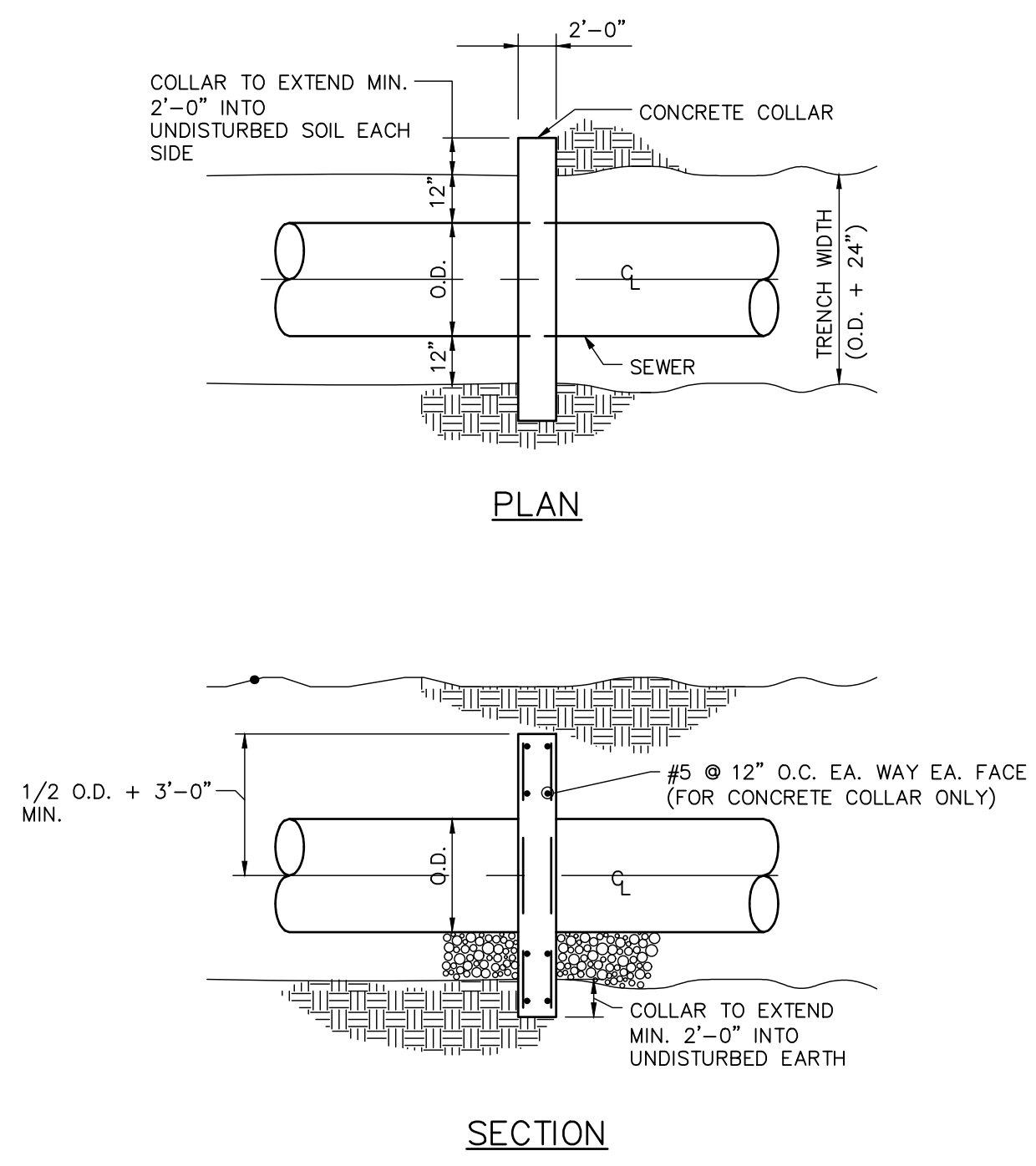
PROJECT NAME: ALLENVILLE SEWER IMPROVEMENTS
 DRAWING TITLE: PUMP STATION DETAILS

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 PROJ. DATE: MARCH 2022
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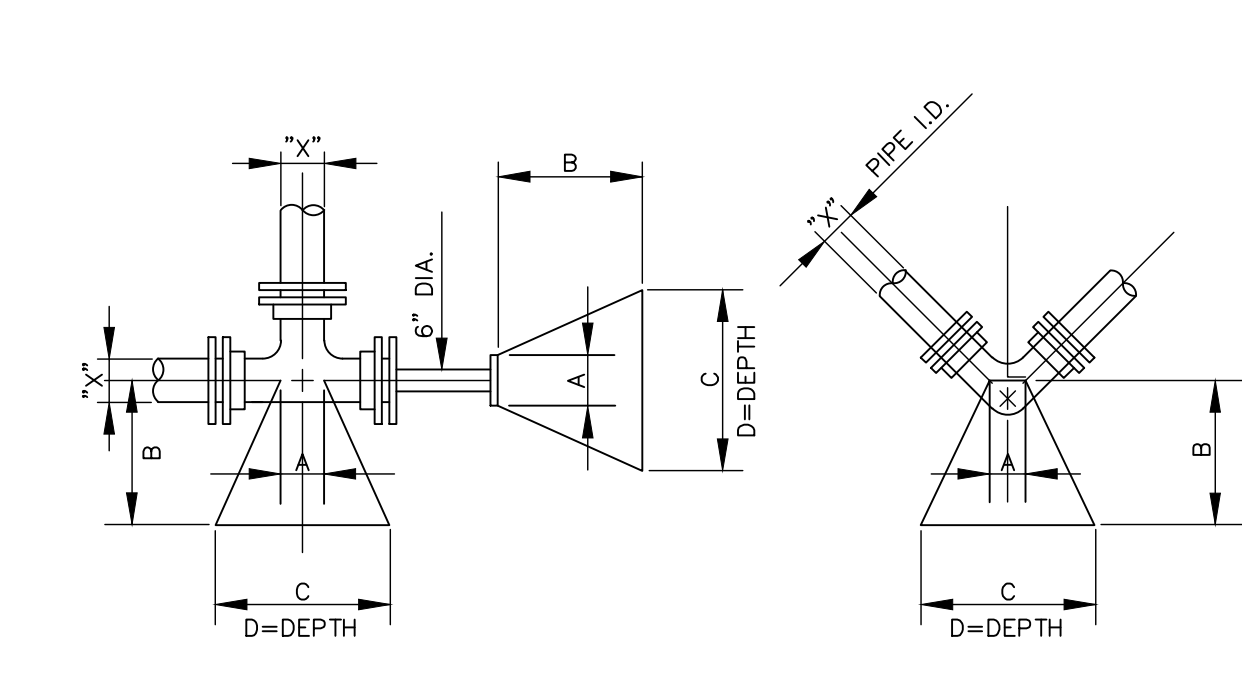
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CONCRETE ENCASEMENT DETAIL
N.T.S.



CONCRETE/WATERSTOP COLLAR DETAIL
N.T.S.

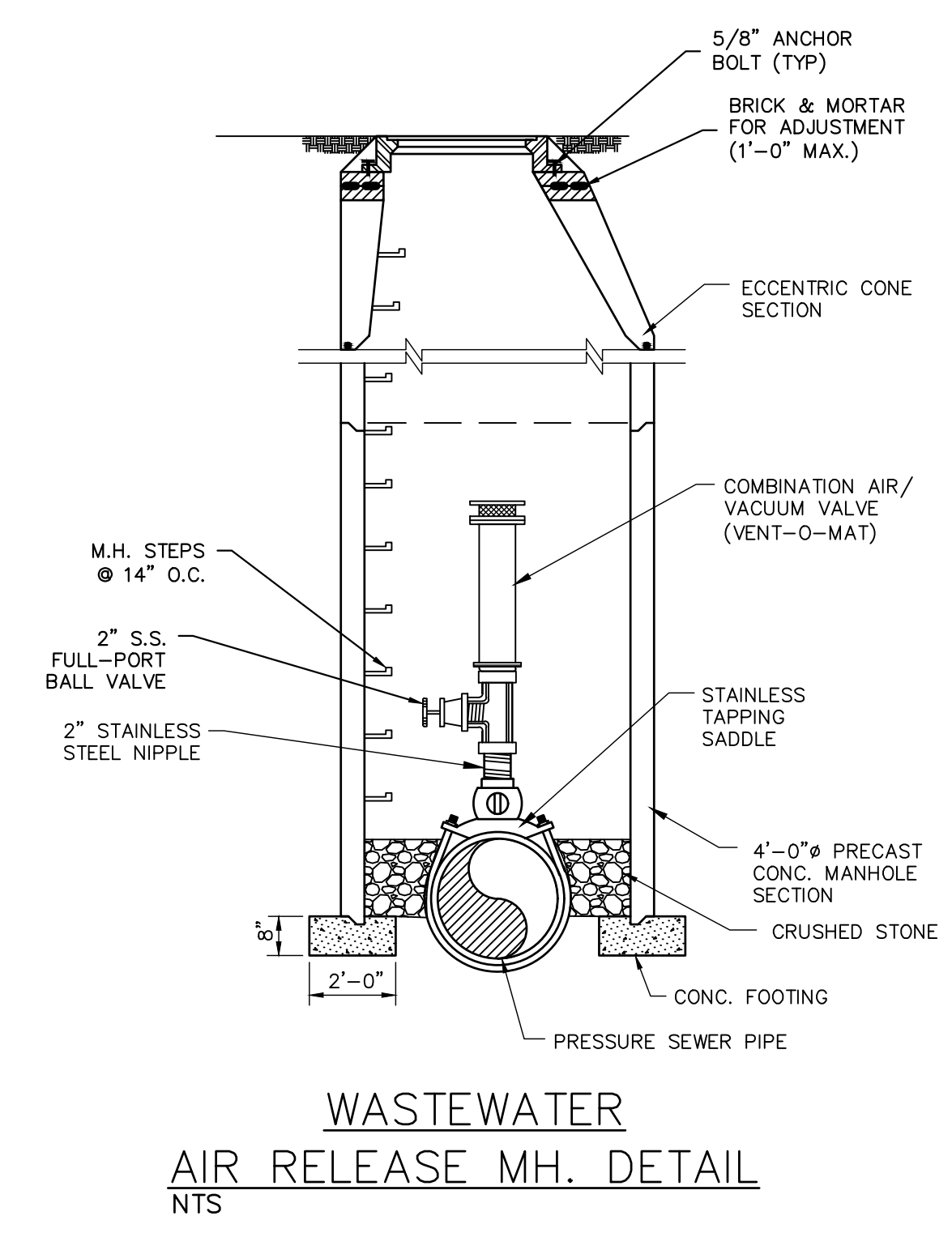


200 PSI TEST PRESSURE (MAXIMUM)
2000 PSF SOIL BEARING

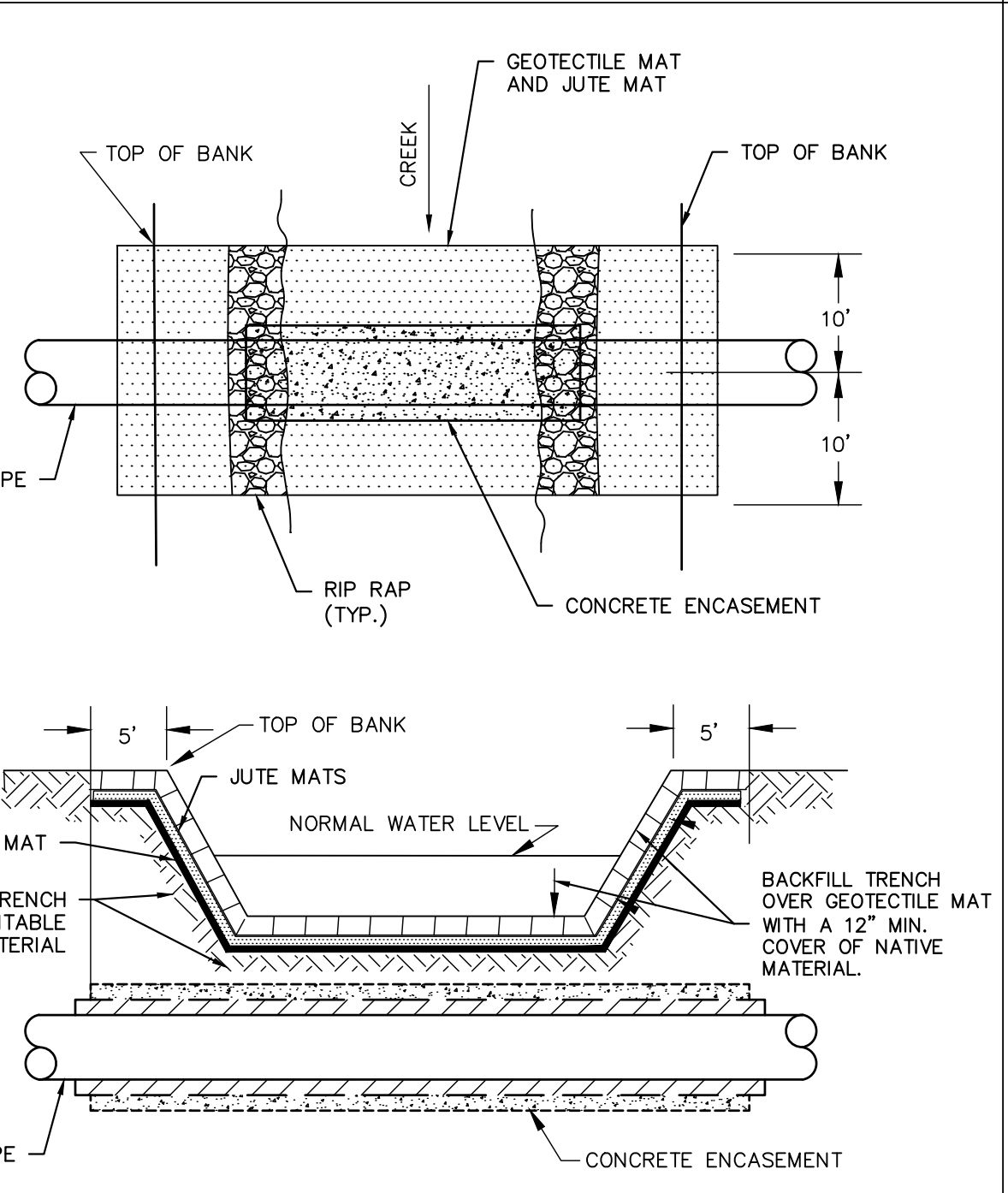
DEAD END & TEES	BLOCKING DIMENSIONS			
	A	B	C	D
10"	1'-0"	2'-6"	4'-0"	2'-6"
8"	0'-10"	2'-3"	3'-3"	2'-0"
6"	0'-8"	1'-6"	2'-6"	1'-6"
10"	1'-0"	3'-6"	5'-0"	2'-9"
8"	0'-10"	2'-9"	4'-0"	2'-3"
6"	0'-8"	2'-0"	3'-0"	1'-9"
10"	1'-0"	1'-9"	3'-0"	2'-6"
8"	0'-10"	1'-6"	2'-6"	2'-0"
6"	0'-8"	1'-3"	2'-0"	1'-6"
10"	1'-0"	1'-4"	2'-6"	1'-6"
8"	0'-10"	1'-0"	2'-0"	1'-3"
6"	0'-8"	0'-9"	1'-6"	1'-0"
10"	1'-0"	0'-6"	1'-6"	1'-3"
8"	0'-10"	0'-6"	1'-4"	1'-0"
6"	0'-8"	0'-6"	1'-0"	0'-9"

X* = DIAMETER OF PIPE TO BE BLOCKED

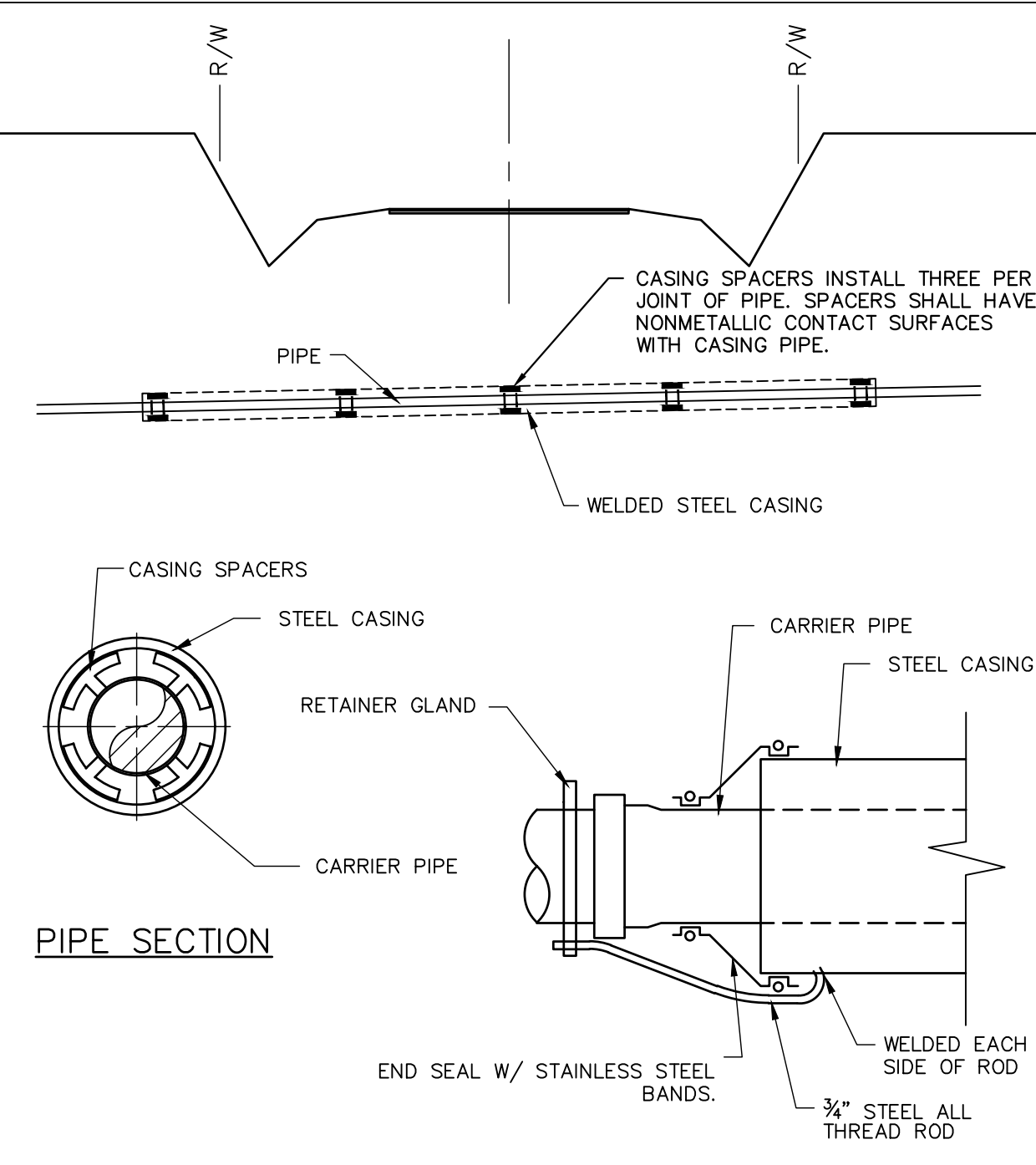
TYPICAL BLOCKING DETAIL
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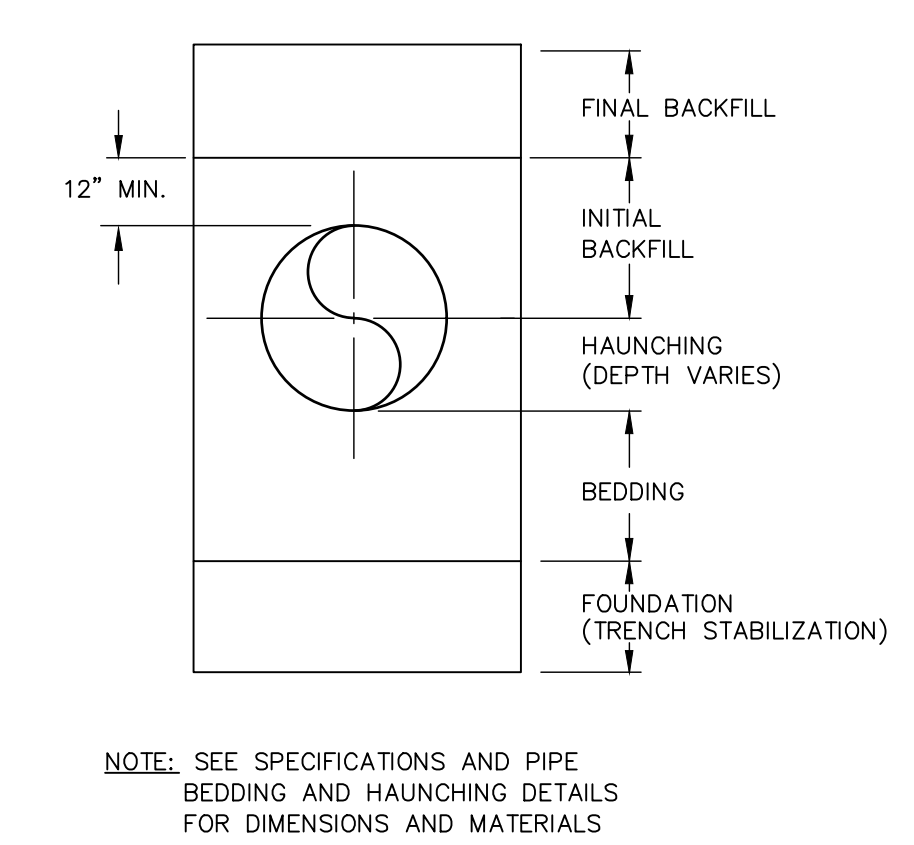
WASTEWATER AIR RELEASE MH. DETAIL
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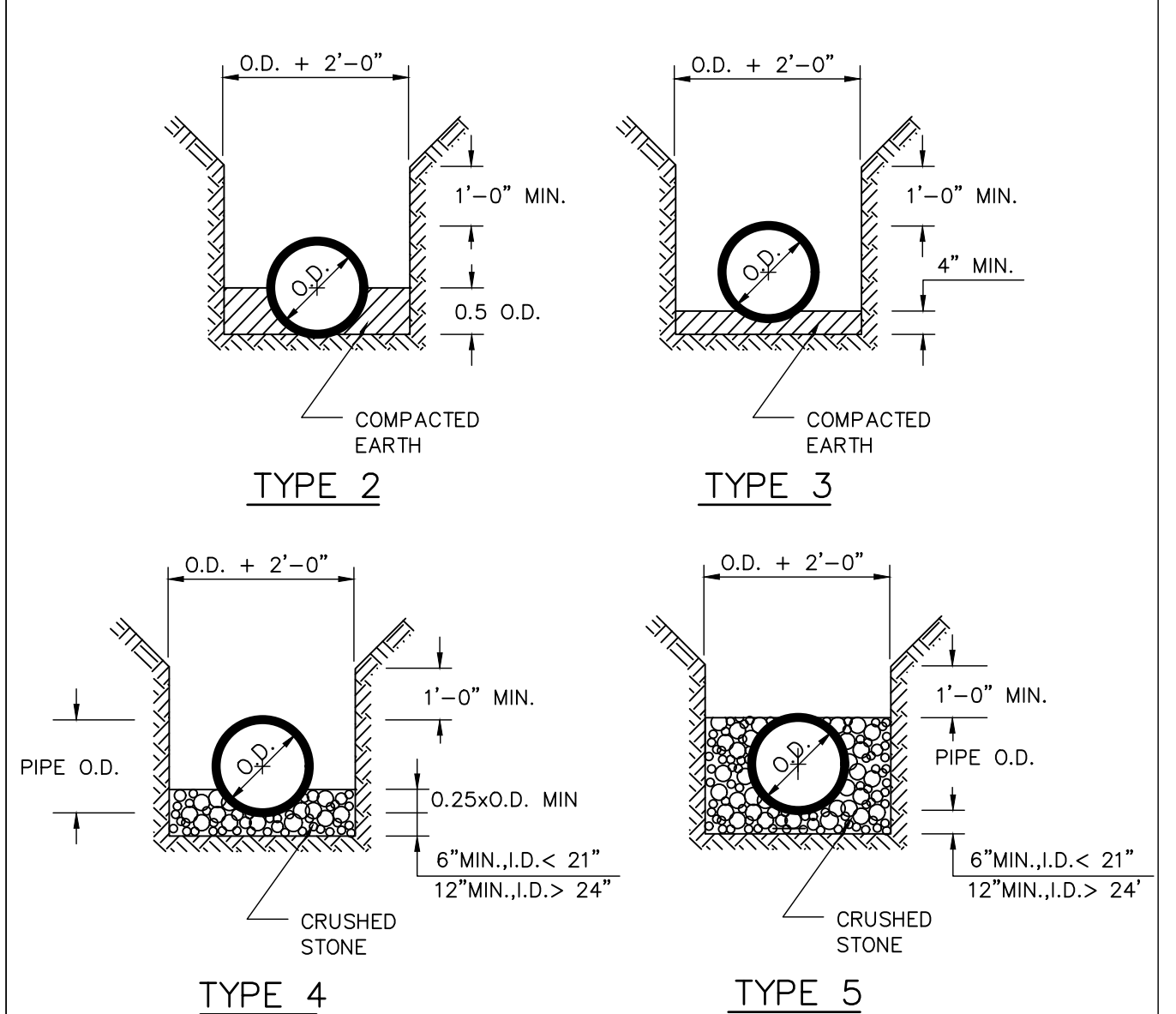
CREEK CROSSING DETAIL
N.T.S.



TYPICAL ROAD BORING DETAIL
N.T.S.



TRENCH TERMINOLOGY DETAIL
N.T.S.



PRESSURE PIPE BEDDING AND HAUNCHING DETAILS
N.T.S.

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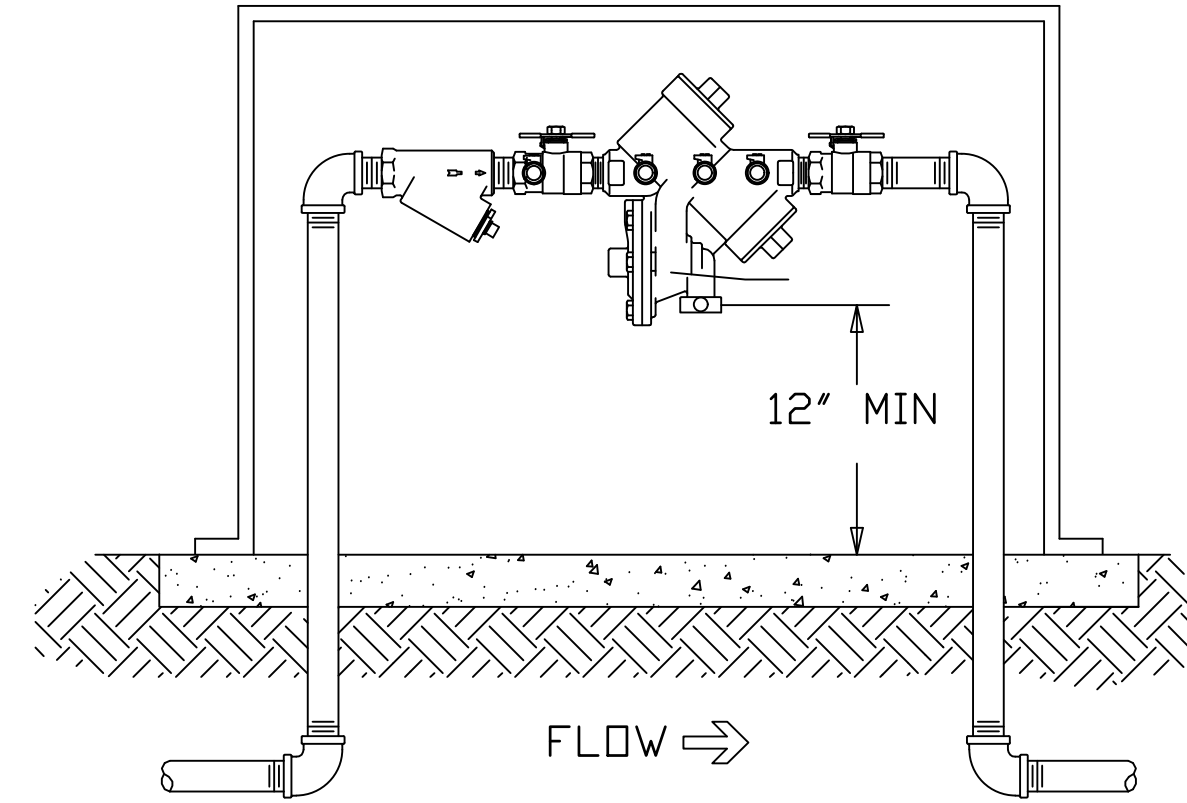
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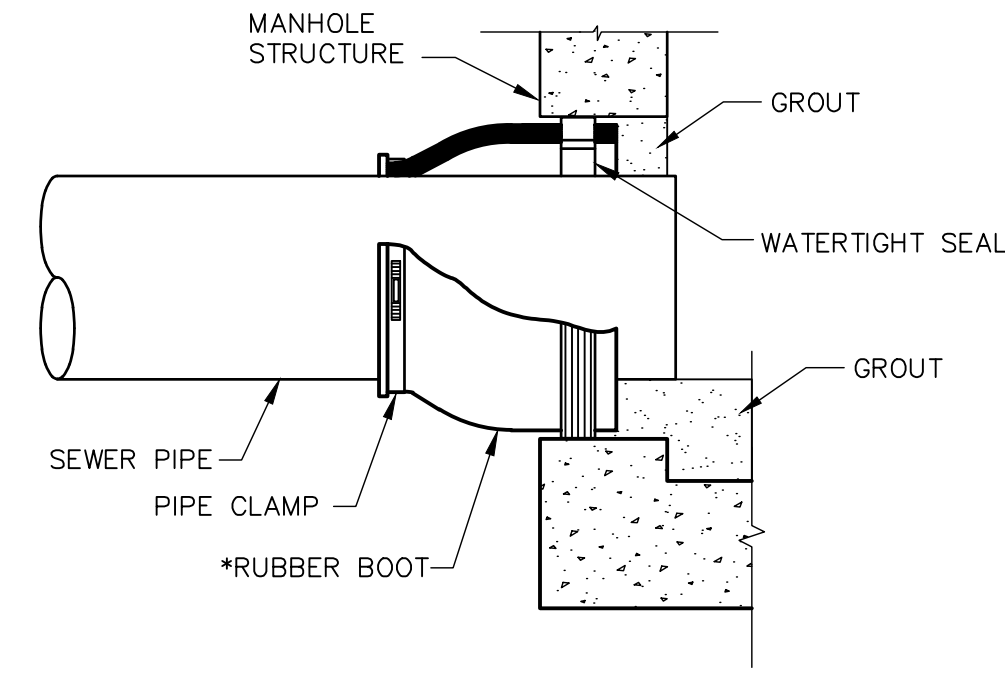
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 DRAWING TITLE: DETAILS

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 PROJ. DATE: MARCH 2022
 DRAWING NUMBER:
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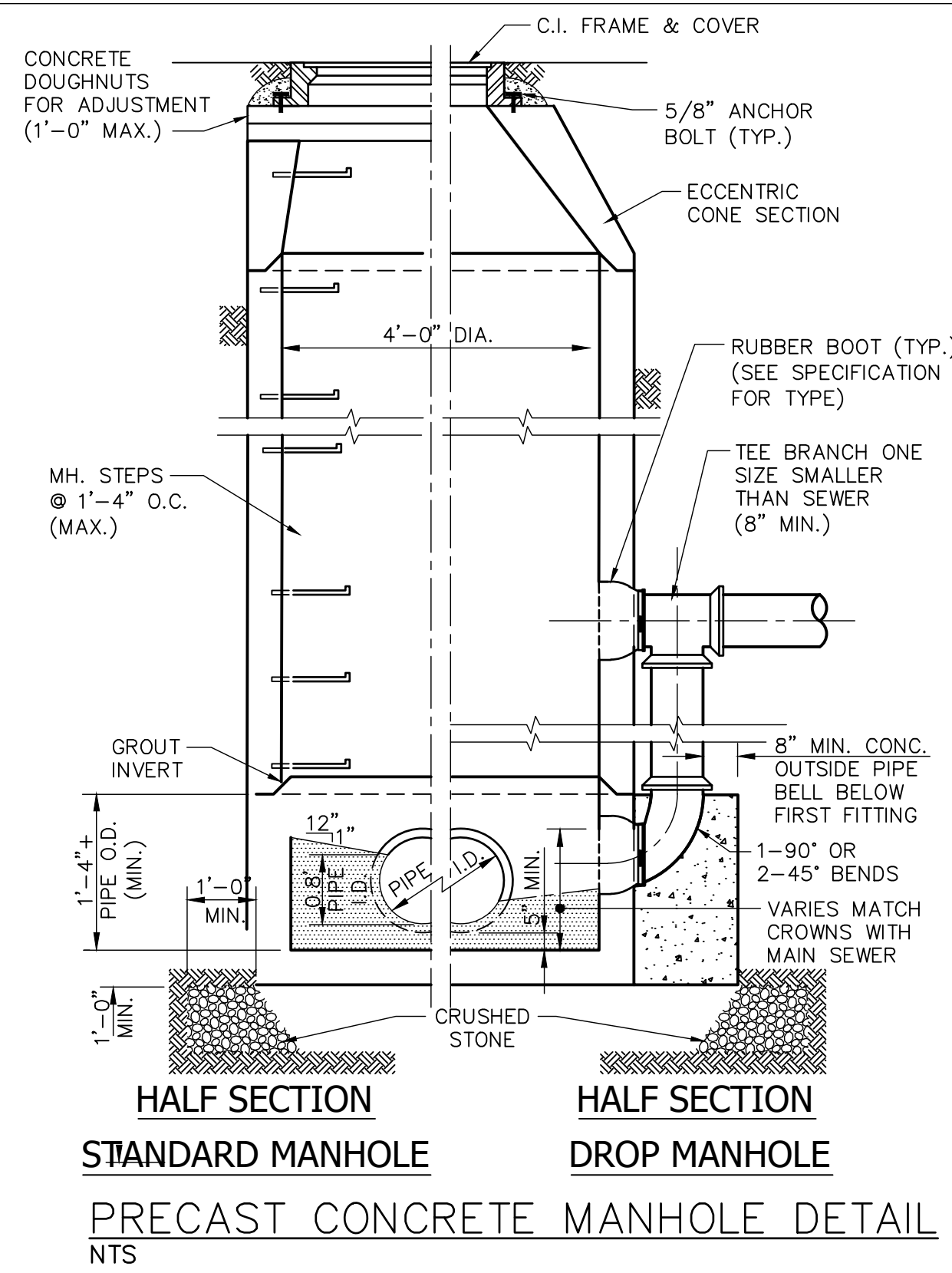
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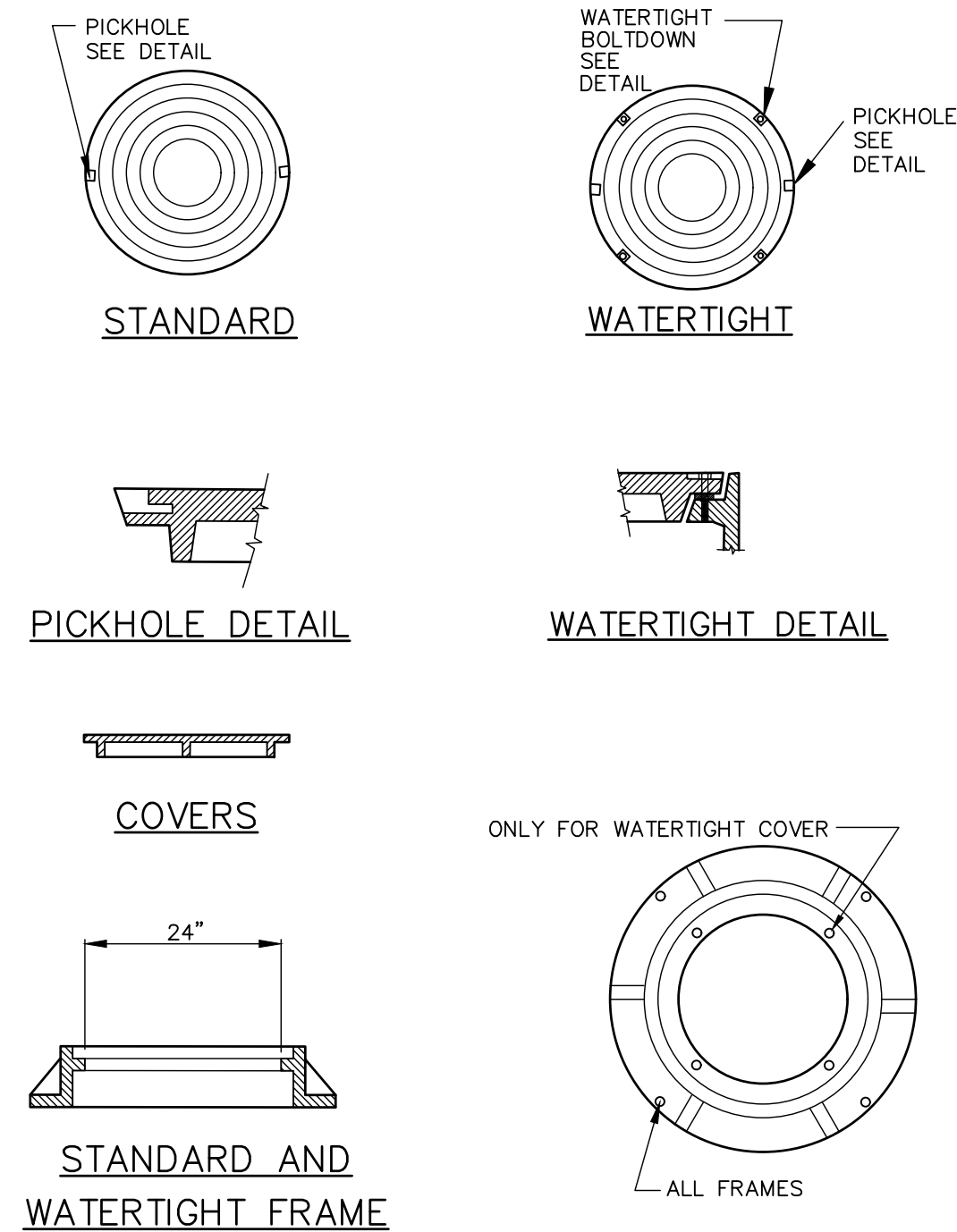
RPZ & "HOT BOX"
N.T.S.



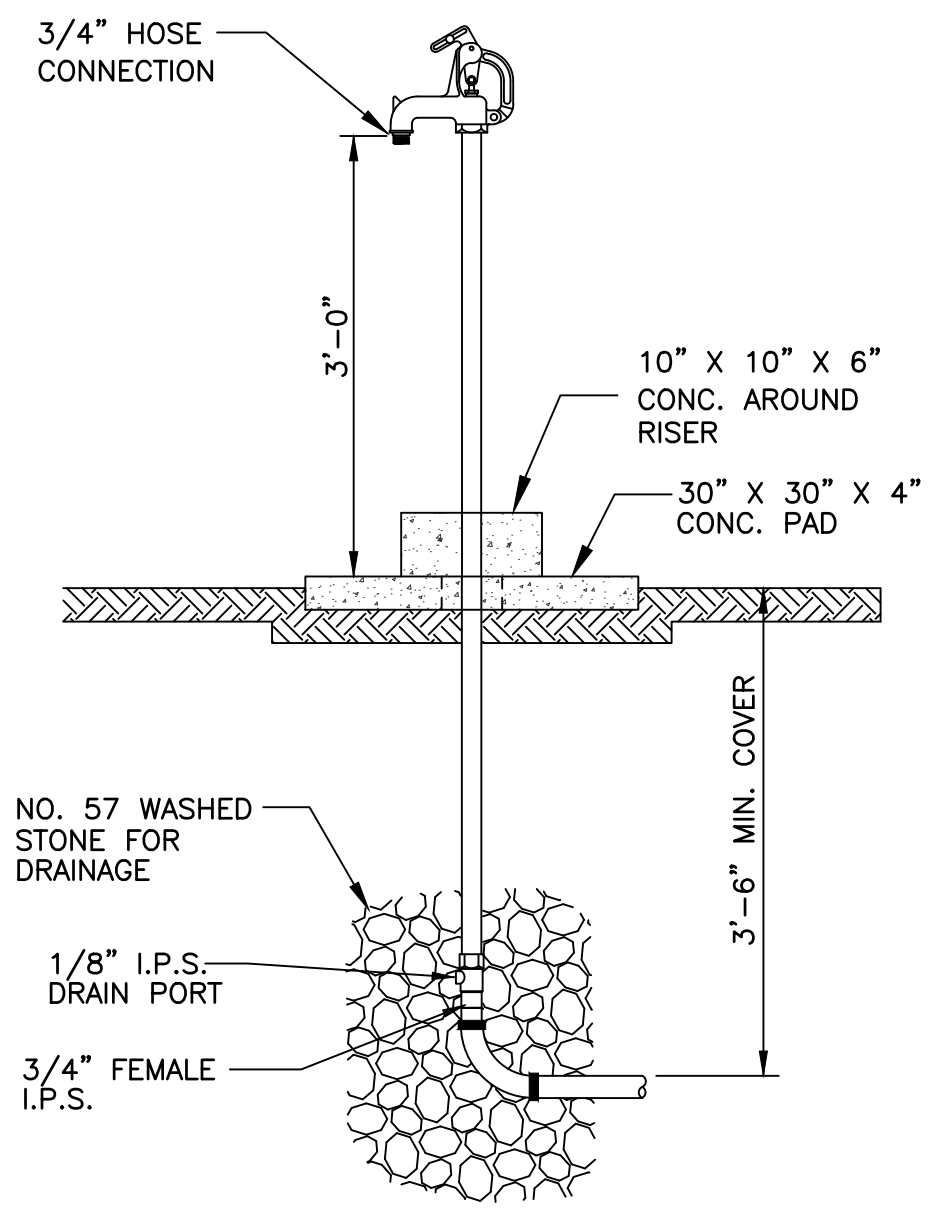
RUBBER BOOT DETAIL
NTS



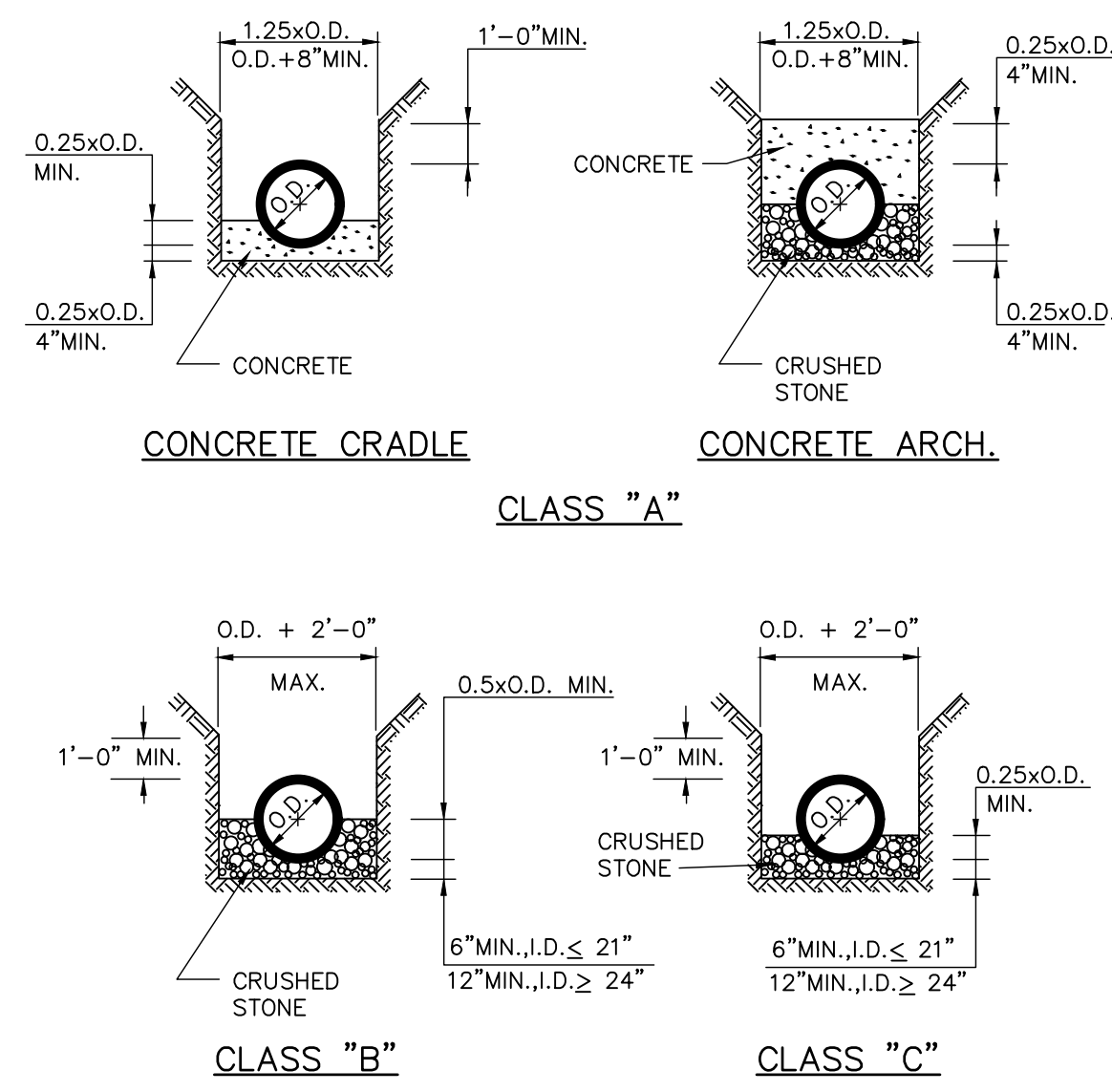
STANDARD MANHOLE DROP MANHOLE
PRECAST CONCRETE MANHOLE DETAIL
NTS



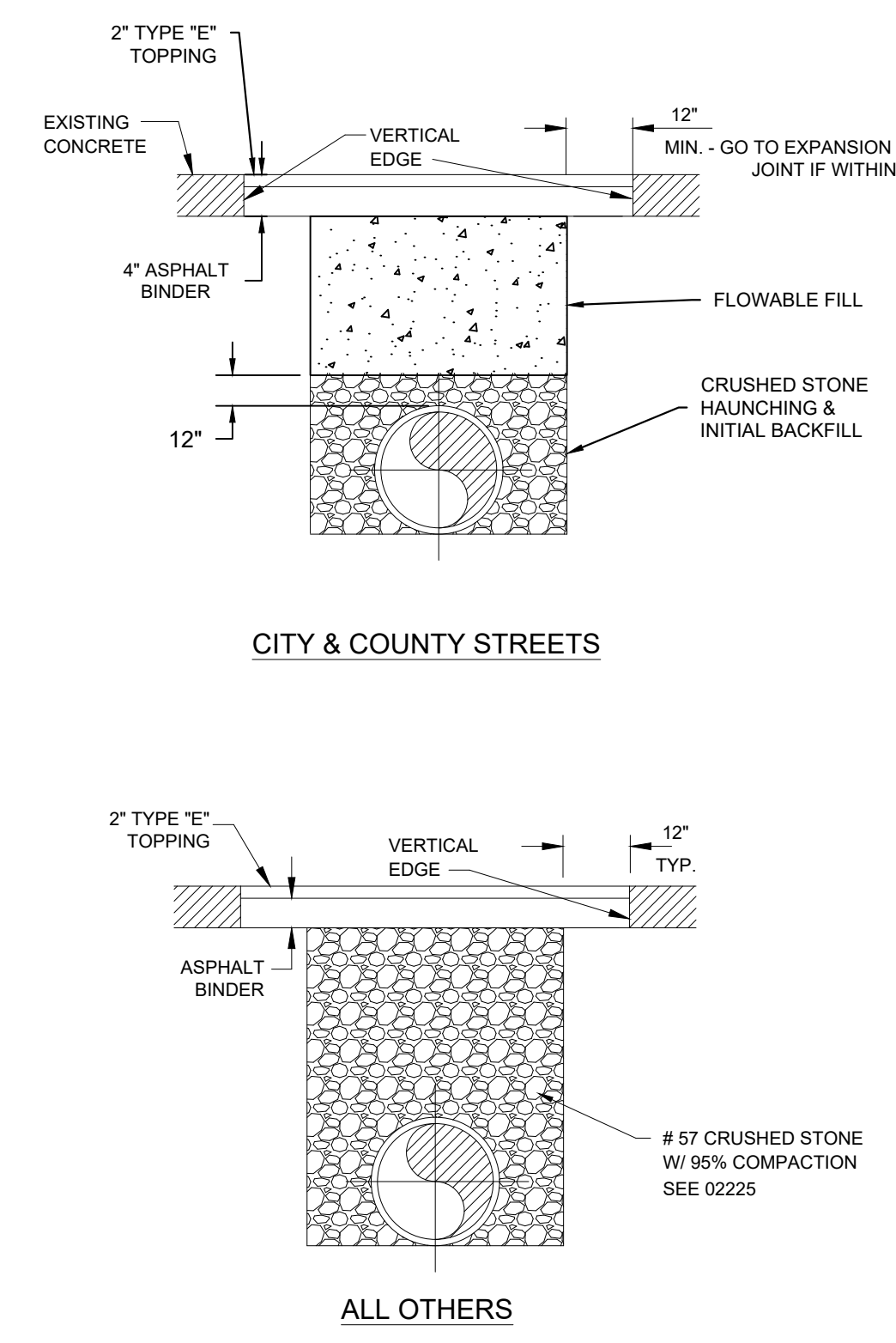
MANHOLE FRAME & COVER
NTS



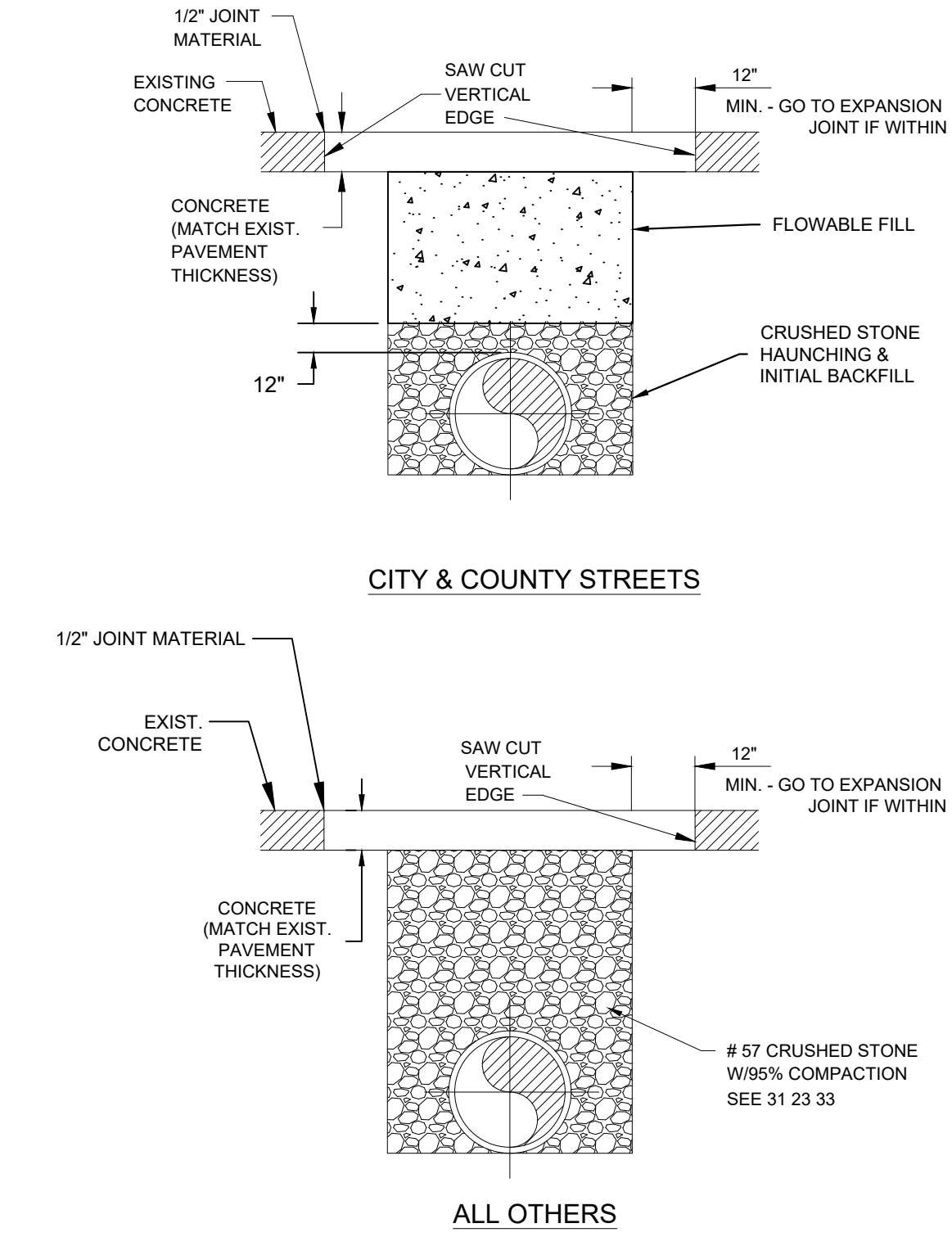
NON-FREEZE YARD HYDRANT
N.T.S.



GRAVITY PIPE BEDDING AND HAUNCHING DETAILS
N.T.S.



ASPHALT REPLACEMENT DETAIL
NTS



CONCRETE REPLACEMENT DETAIL
NTS

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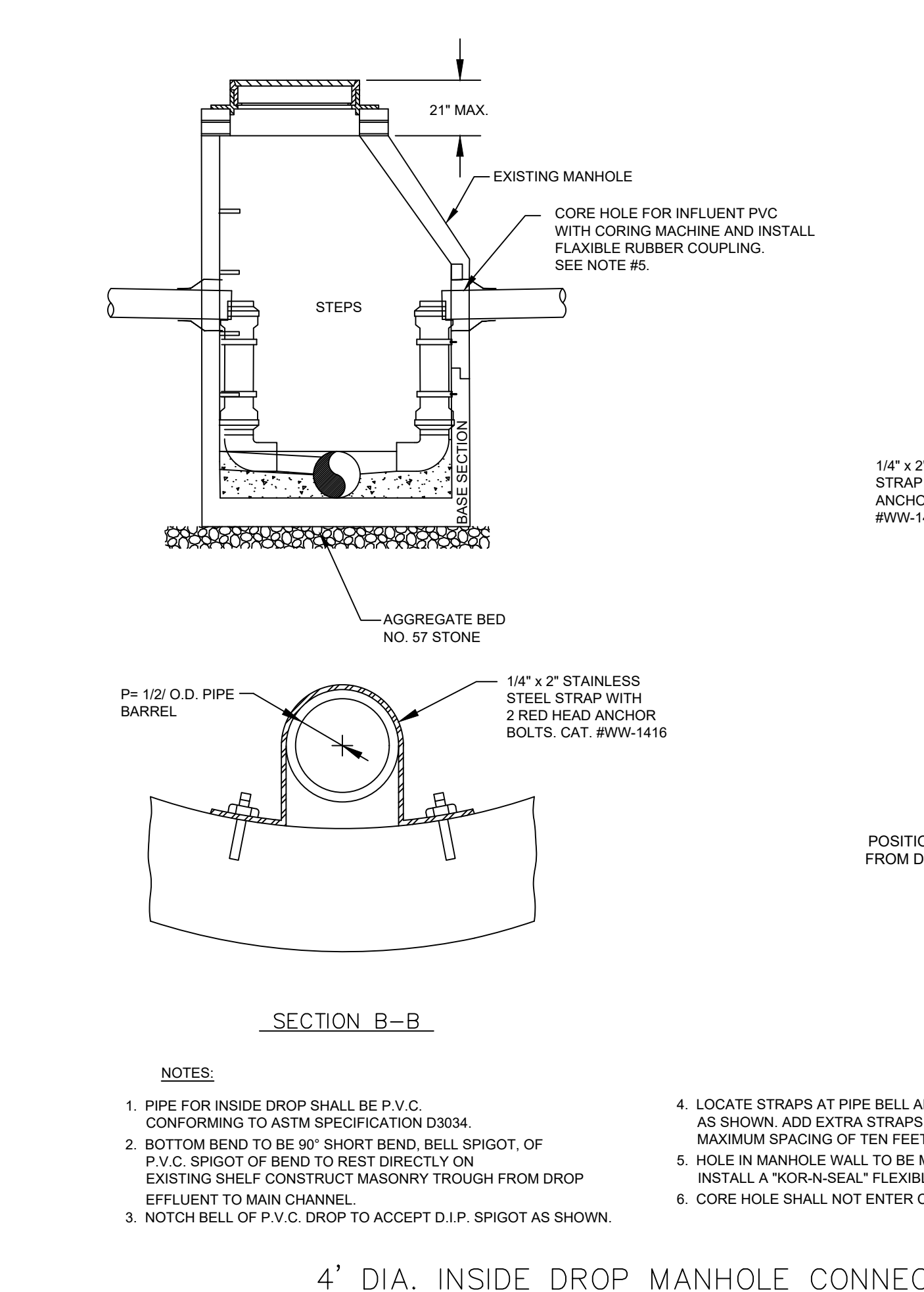
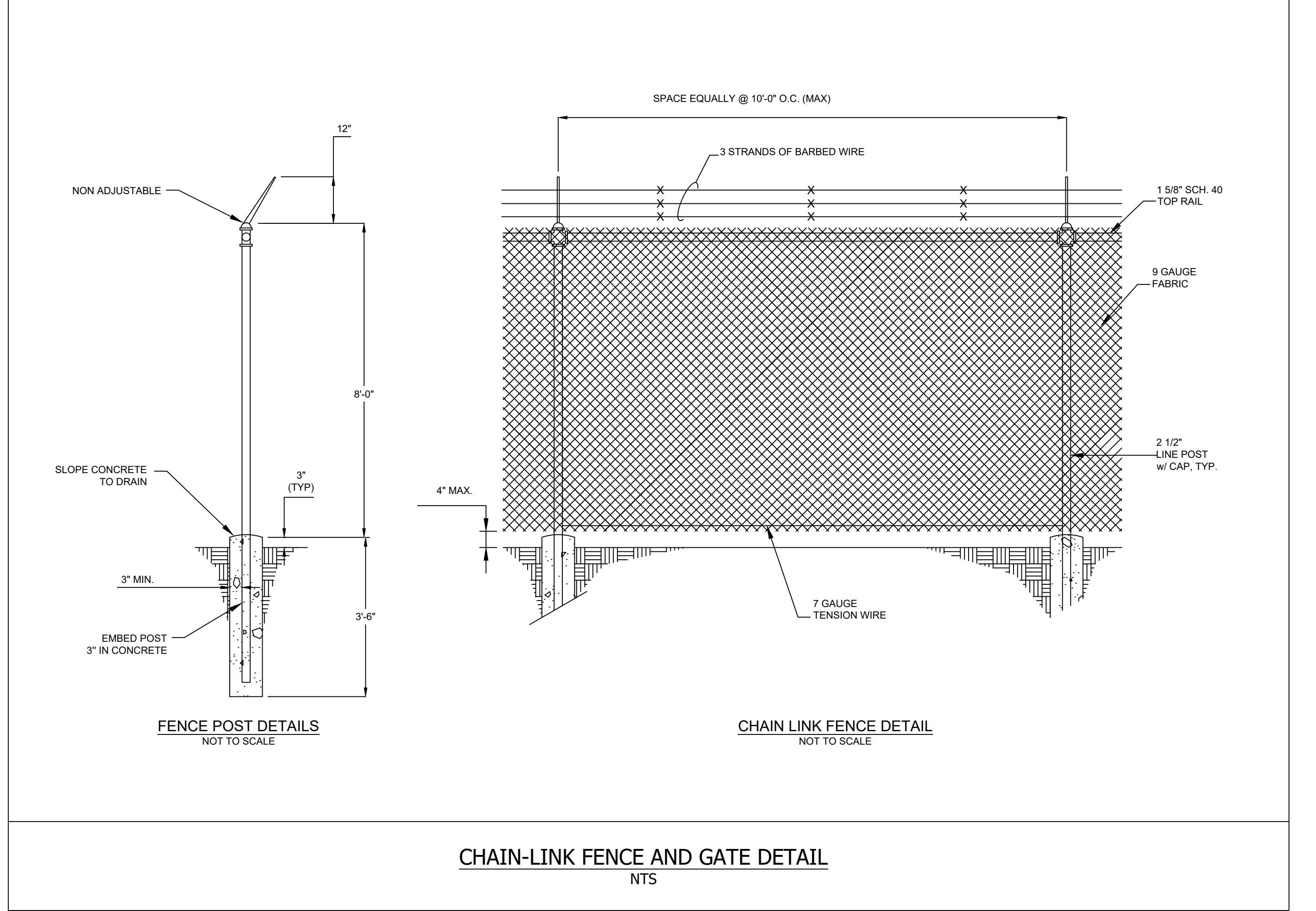
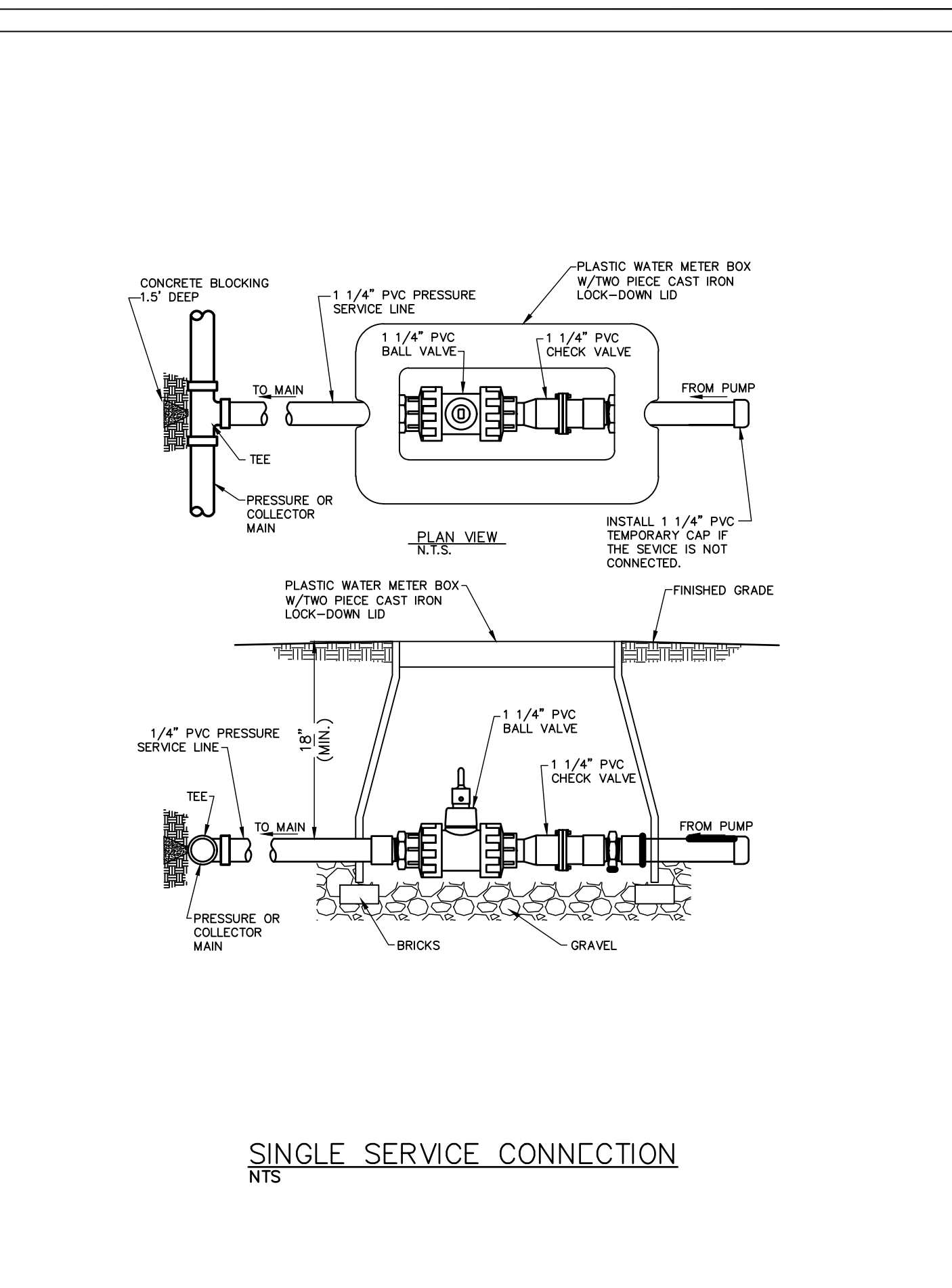
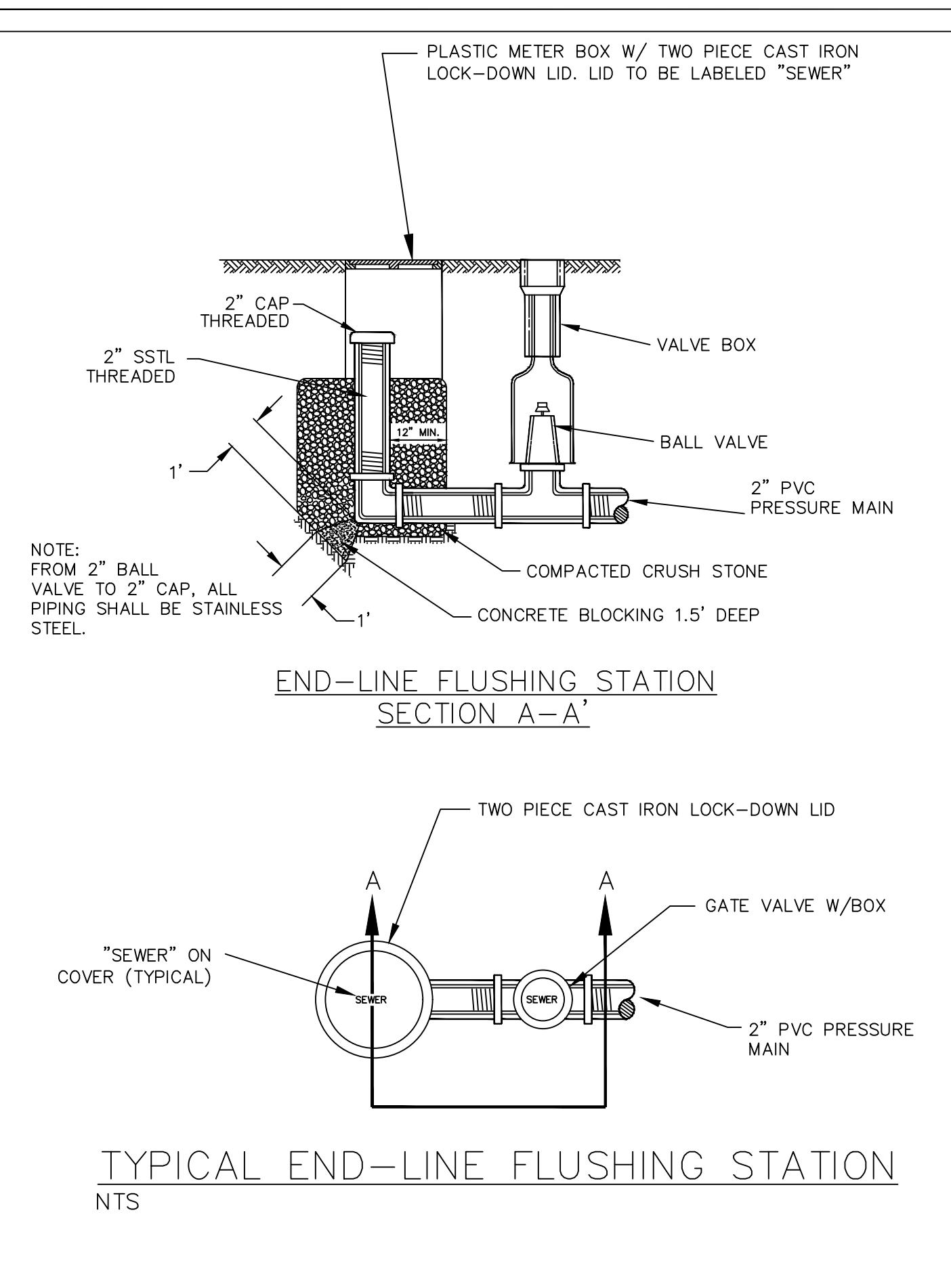
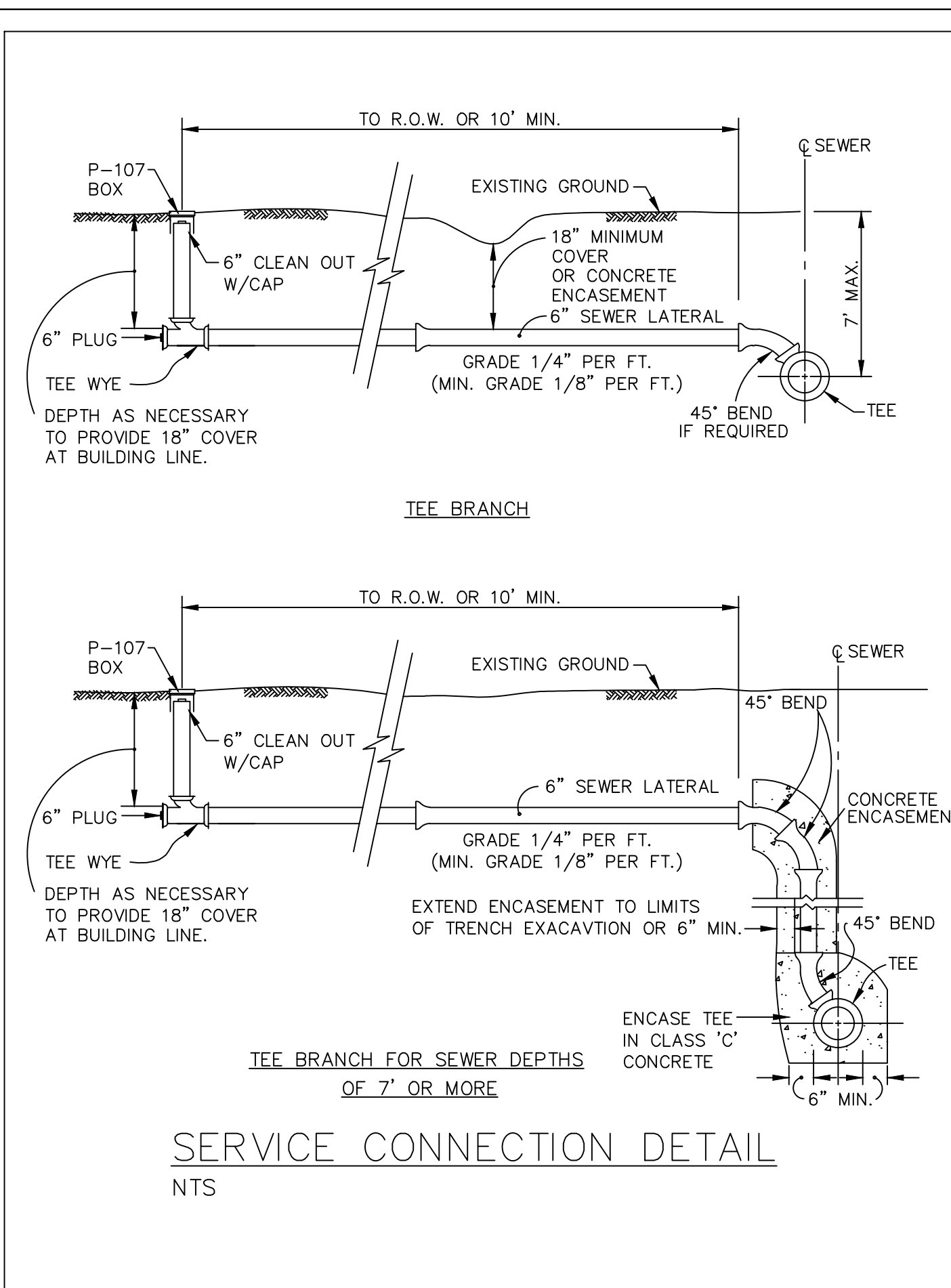
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EROSION AND SEDIMENT CONTROL NOTES

THE FOLLOWING IS GENERAL GUIDANCE, BUT THE SWPPP PROVIDES FURTHER DIRECTION AND INFORMATION. IN THE CASE OF ANY CONFLICT BETWEEN THESE NOTES AND THE SWPPP, THE SWPPP SHALL TAKE PRECEDENCE.

1. GENERAL CRITERIA AND REQUIREMENTS:

- A. THE CONSTRUCTION-PHASE EROSION AND SEDIMENT CONTROLS ARE DESIGNED TO RETAIN SEDIMENT ON SITE.
- B. ALL CONTROL MEASURES ARE PROPERLY SELECTED, AND MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES. IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS.
- C. IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS A CONTROL MEASURE, THEN THE TIMING OF THE PLANTING OF THE VEGETATION COVER MUST BE DISCUSSED IN THE SWPPP. DELAY IN PLANTING COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- D. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN EVENT AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). PERMITTEES SHALL NOT INITIATE REMEDIATION/RESTORATION OF A STREAM WITHOUT CONSULTING THE DIVISION FIRST. THIS PERMIT DOES NOT AUTHORIZE ACCESS TO PRIVATE PROPERTY.
- E. SEDIMENT SHOULD BE REMOVED FROM INLET SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS, AND OTHER SEDIMENT CONTROLS AS NECESSARY, AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
- F. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WATER SHALL BE PICKED UP PRIOR TO ANTICIPATED STORM EVENTS (E.G., FORECASTED BY LOCAL WEATHER REPORTS), OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES (E.G., SCREENING OUTFALLS, DAILY PICK-UP, ETC.). AFTER USE, SILT FENCES SHOULD BE REMOVED OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
- G. OFFSITE MATERIAL STORAGE AREAS (ALSO INCLUDING OVERBURDEN AND STOCKPILES OF DIRT, ETC.) USED SOLELY BY THE PERMITTED PROJECT ARE CONSIDERED A PART OF THE PROJECT AND SHALL BE ADDRESSED IN THE POLLUTION PREVENTION PLAN.
- H. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- I. CLEARING AND GRUBBING MUST BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
- J. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
- K. EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE DISTURBANCE OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
- L. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- M. PERMITTEES SHALL MAINTAIN A RAIN GAUGE AND RAINFALL RECORDS AT SITE OR USE A REPRESENTATIVE REFERENCE SITE FOR DAILY RECORDS.
- N. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED, EXCEPT IN THE SITUATIONS DISCUSSED IN THE SWPPP.
- O. EROSION PREVENTION AND SEDIMENT CONTROLS USED AT THE SITE ARE DESIGNED TO CONTROL STORM RUNOFF GENERATED BY A 5 YEAR, 24 HOUR STORM EVENT. WHEN CLAY OR OTHER FINE PARTICLE SOILS ARE FOUND ON SITE, ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORM WATER MAY BE USED.
- P. ALL TOPOGRAPHY SHALL BE RETURNED TO ORIGINAL CONTOURS AND DRAINAGE PATTERNS SHALL NOT BE DISTURBED.
- Q. STRUCTURAL CONTROLS SHALL NOT BE PLACED IN STREAMS OR WETLANDS EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT AND/OR TENNESSEE AQUATIC RESOURCE ALTERATION PERMIT.
- R. NO BLASTING WILL BE PERMITTED WITHIN 50 FEET OF A STREAM OR WETLAND, INCLUDING ALL STREAM CROSSINGS.

2. SCHEDULE OF INSPECTIONS:

- S. INSPECTIONS SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE), SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTIONS REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CONDUCT ONLY MONTHLY INSPECTIONS AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE, OR THE DIVISION'S NASHVILLE CENTRAL OFFICE FOR PROJECTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) AND THE TENNESSEE VALLEY AUTHORITY (TVA).
- T. THE ON-SITE INSPECTOR MUST HAVE COMPLETED THE TDEC LEVEL I EROSION PREVENTION AND SEDIMENT CONTROL COURSE. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.
- U. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWPPP SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
- V. MONITORING POINTS (WHERE DISCHARGES LEAVE THE SITE OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
- W. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.
- X. INSPECTIONS SHALL BE DOCUMENTED AND INCLUDE THE SCOPE OF THE INSPECTION, NAME(S) AND TITLE OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (INCLUDING THE LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE AND OF ANY CONTROL DEVICE THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO THE DIVISION WITHIN 10 DAYS OF THE REQUEST.

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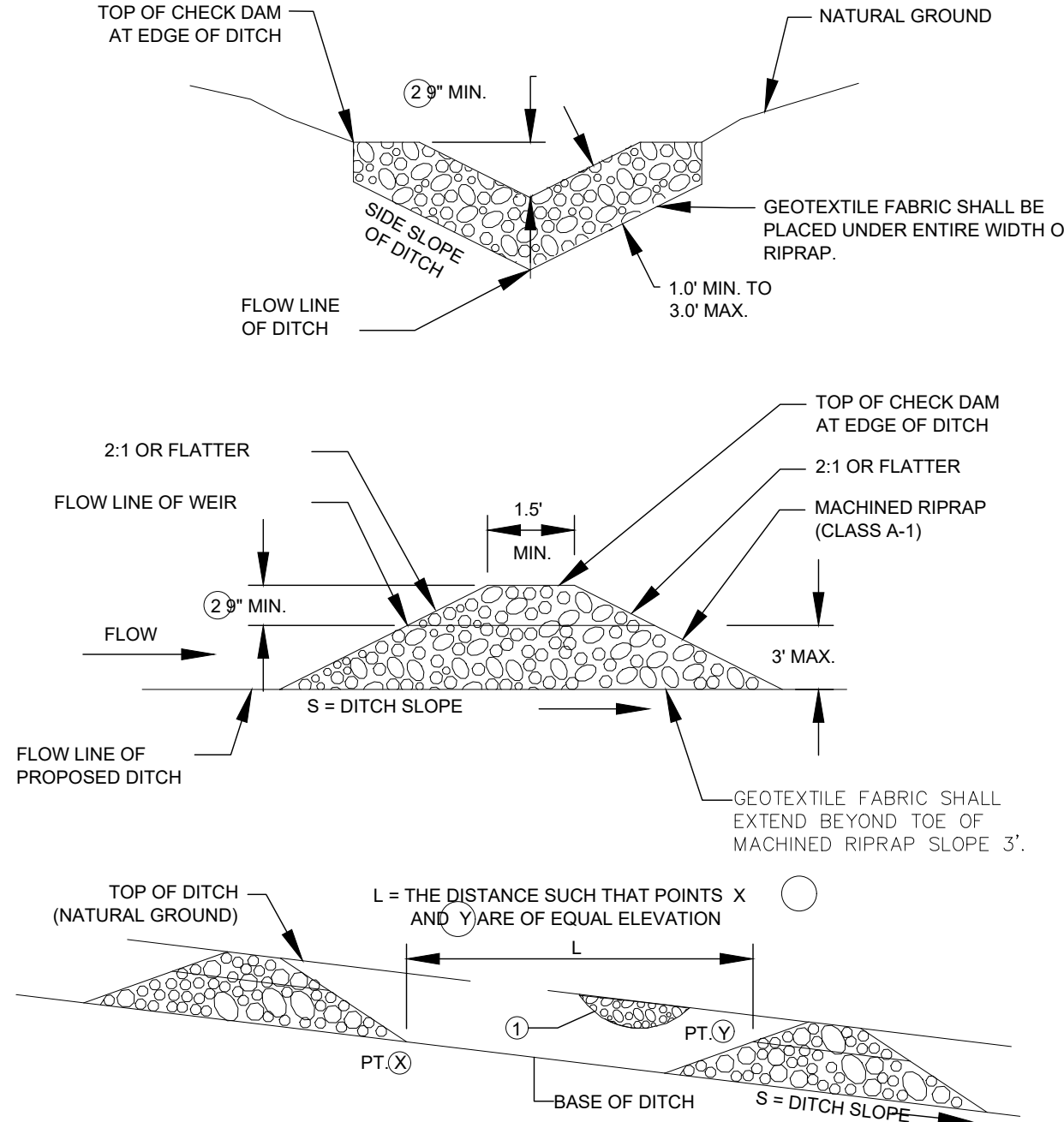
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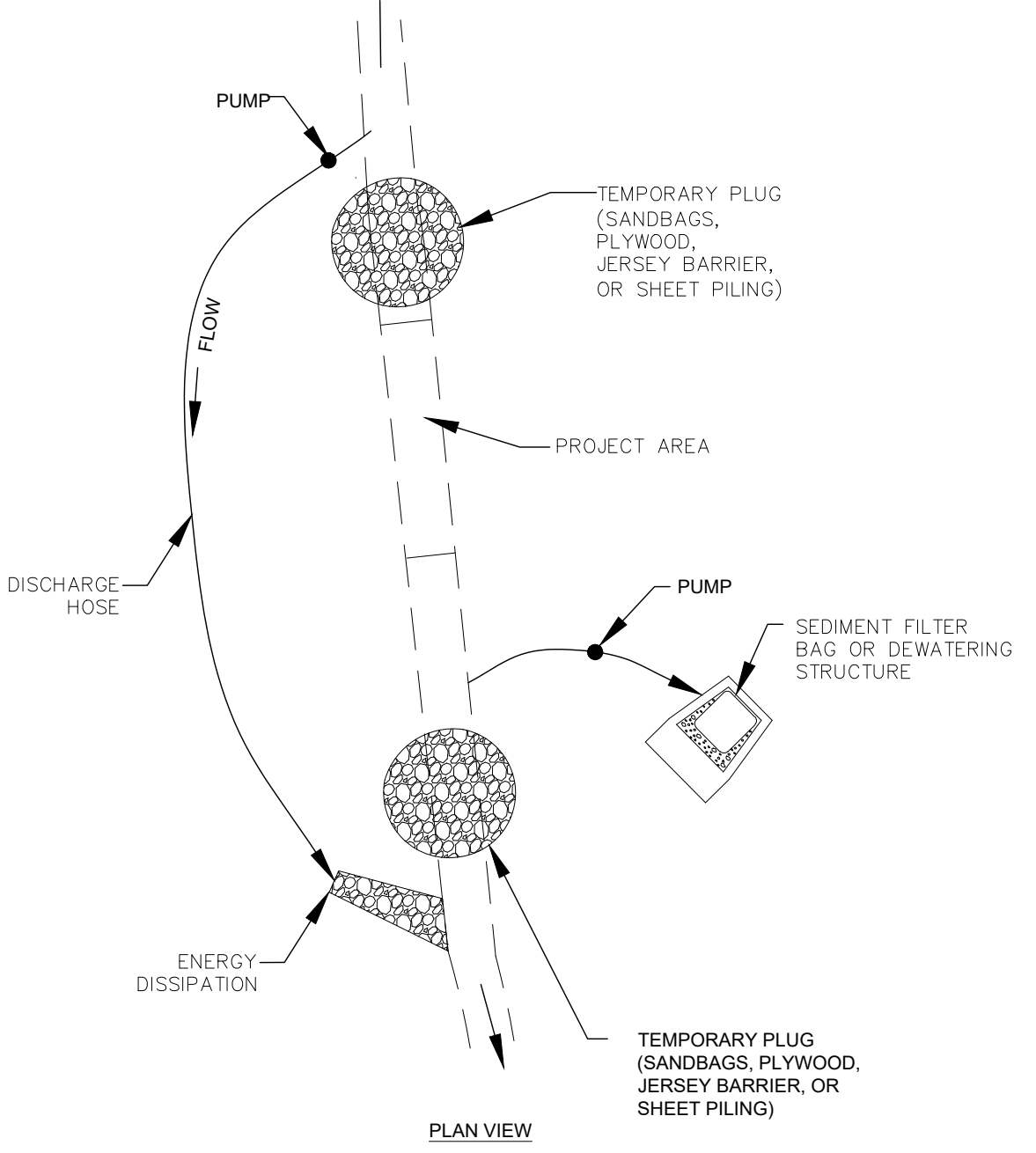
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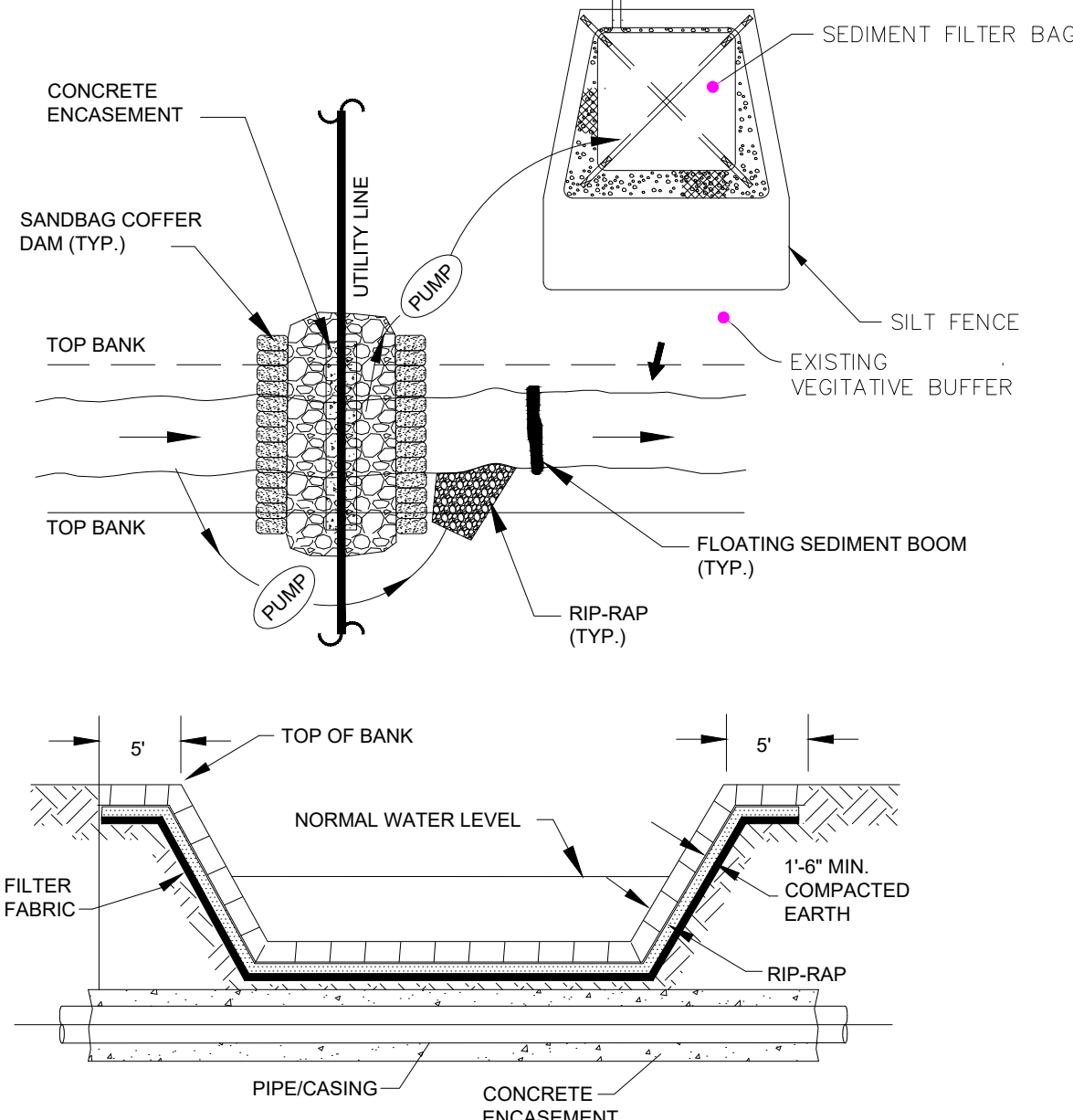


- NOTES:**
1. FILL LOW AREAS ALONG TOP OF BANK TO PREVENT BACKWATER FROM EXITING DITCH.
 2. WEIR FLOW DEPTH BASED UPON $5y/24hr$ EVENT.

STONE CHECK DAM
NTS

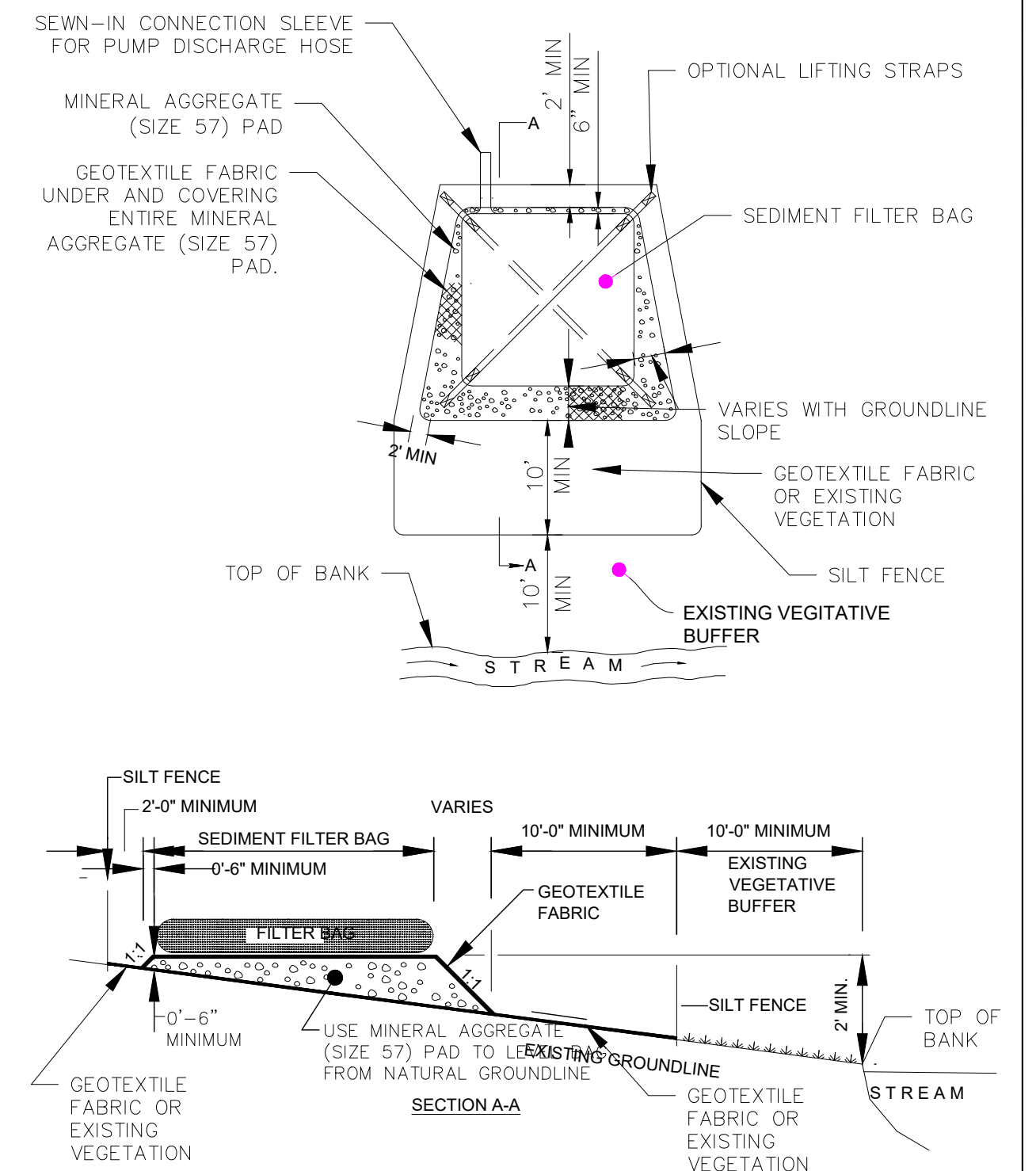


LOW FLOW STREAM CROSSING BY DIVERSION DETAIL
NTS

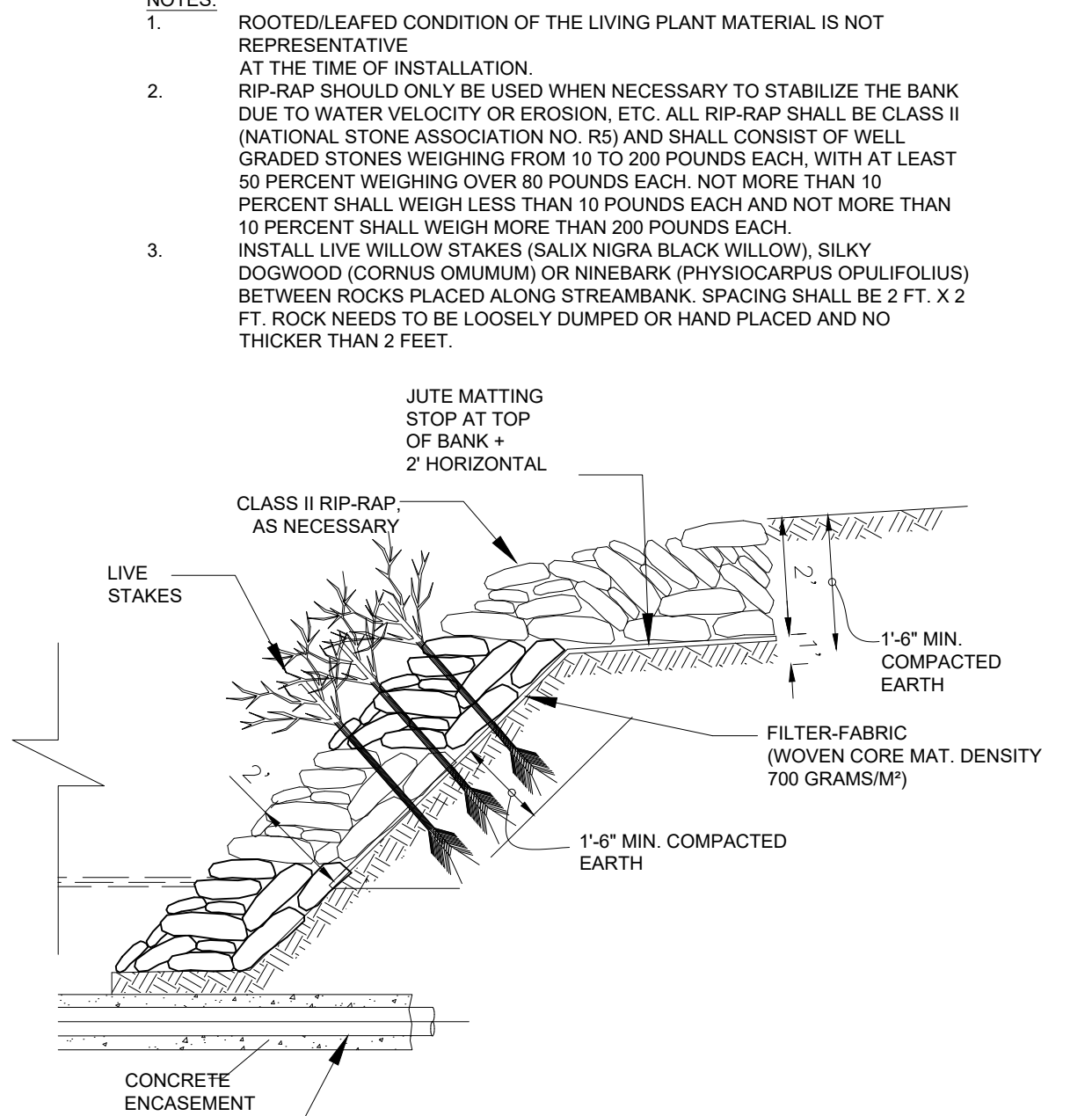


- NOTES:**
1. CONSTRUCT DEWATERING STRUCTURE AND LINE WITH GEOTEXTILE MATTING, MINIMUM DEPTH=2'
 2. PLACE SANDBAGS IN STREAM ABOVE AND BELOW UTILITY CROSSING.
 3. DIVERT STREAM AROUND WORK AREA WITH A PUMP.
 4. DEWATER WORK AREA, PUMP TO DEWATERING STRUCTURE.
 5. PERMANENTLY STABILIZE CROSSING AREA AND REMOVE SANDBAGS.
 6. STABILIZE ALL STREAM BANKS DISTURBED DURING CONSTRUCTION.
 7. INSTALL CONCRETE ENCASEMENT A MINIMUM SPAN OF 5 FEET FROM THE TOP OF BANK ON BOTH SIDES OF THE CREEK.

STREAM CROSSING BY COFFER DAM DETAIL
NTS

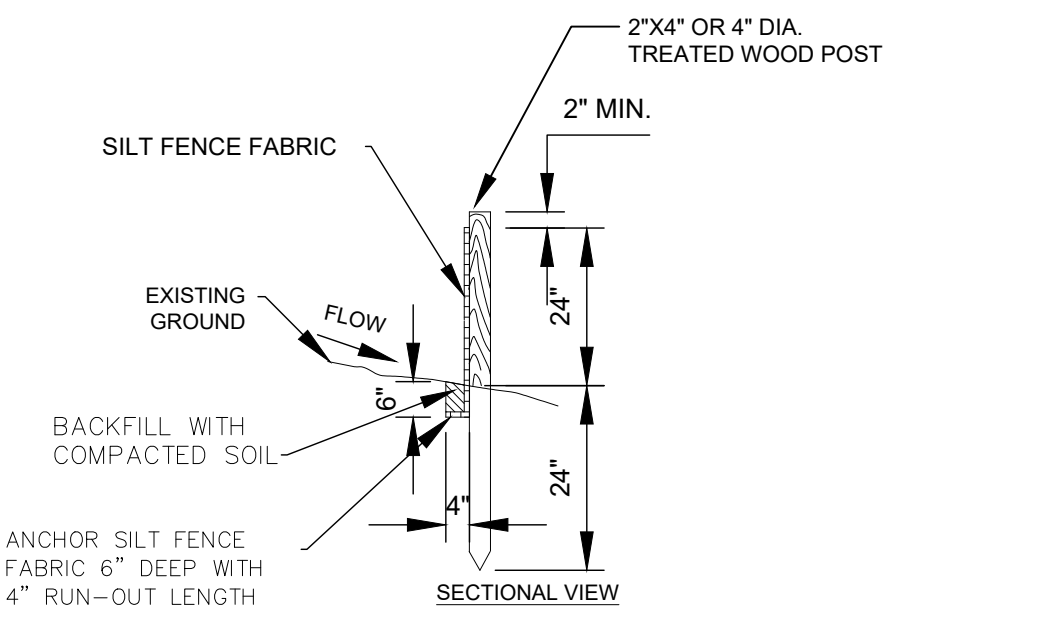
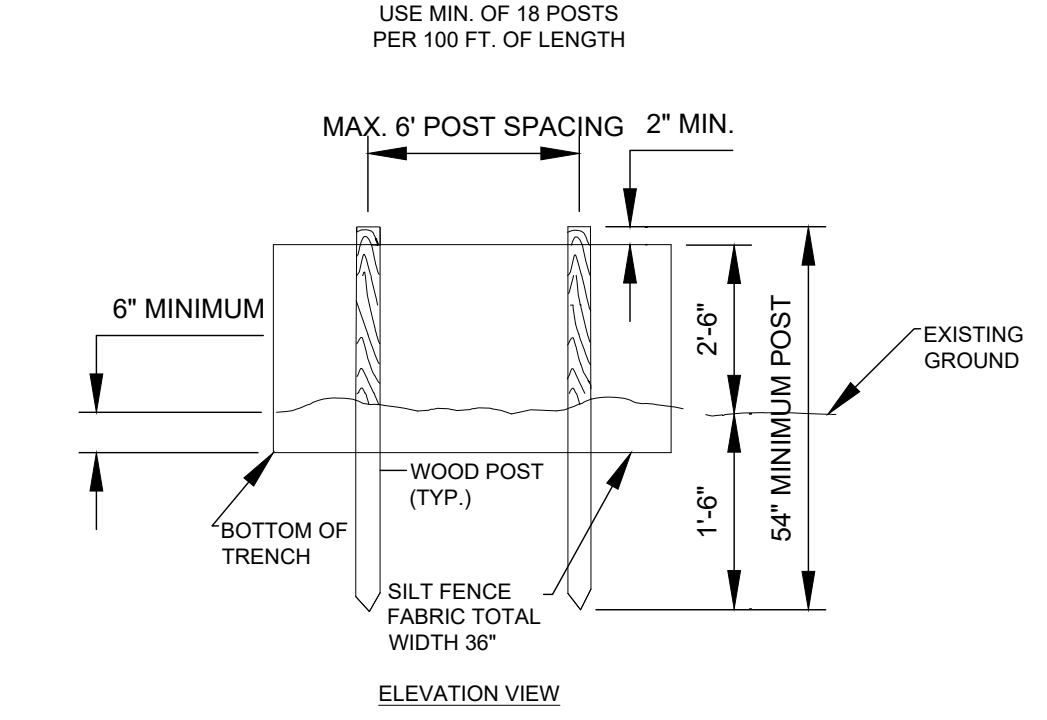


DEWATERING PRACTICES
NTS

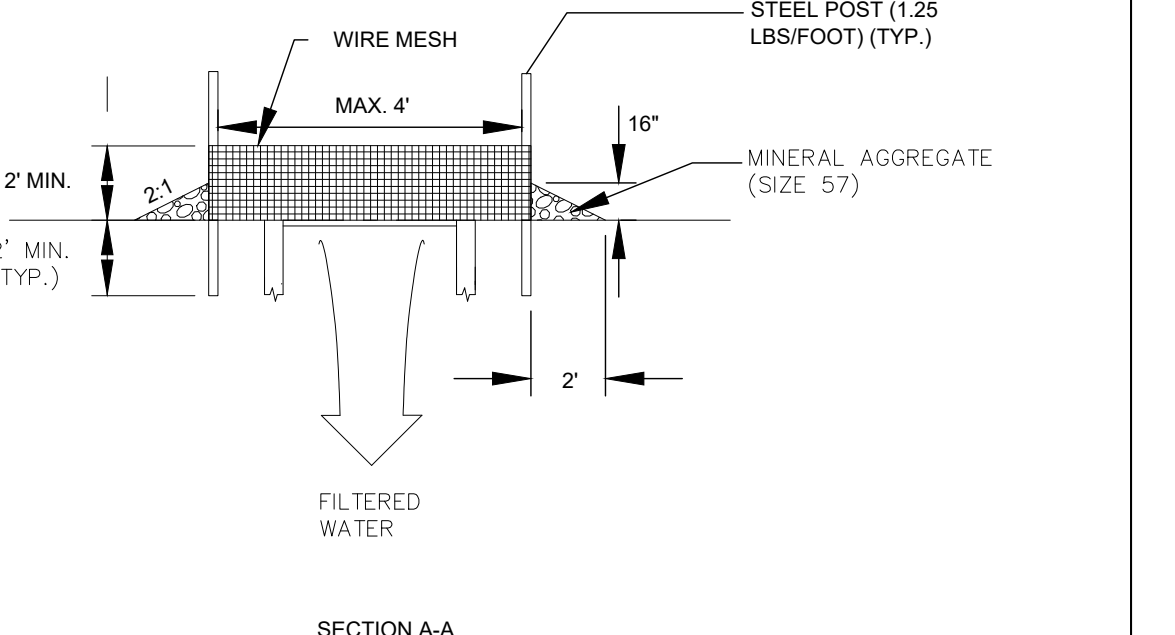
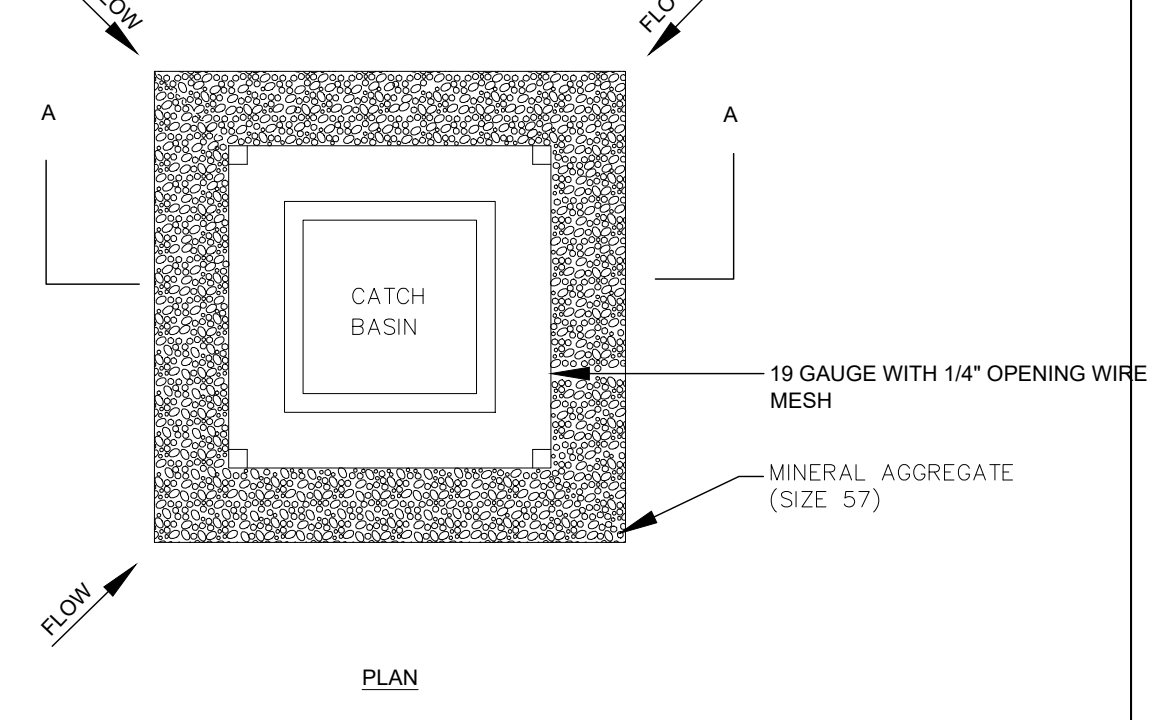


- NOTES:**
1. ROOTED/LEAFED CONDITION OF THE LIVING PLANT MATERIAL IS NOT REPRESENTATIVE AT THE TIME OF INSTALLATION.
 2. RIP-RAP SHOULD ONLY BE USED WHEN NECESSARY TO STABILIZE THE BANK DUE TO WATER VELOCITY OR EROSION, ETC. ALL RIP-RAP SHALL BE CLASS II (NATIONAL STONE ASSOCIATION NO. R5) AND SHALL CONSIST OF WELL GRADED STONES WEIGHING FROM 10 TO 200 POUNDS EACH, WITH AT LEAST 50 PERCENT WEIGHING OVER 80 POUNDS EACH, NOT MORE THAN 10 PERCENT SHALL WEIGH LESS THAN 10 POUNDS EACH AND NOT MORE THAN 10 PERCENT SHALL WEIGH MORE THAN 200 POUNDS EACH.
 3. INSTALL LIVE WILLOW STAKES (SALIX NIGRA BLACK WILLOW), SILKY DOGWOOD (CORNUS OMUMUM) OR NINEBARK (PHYSOCARPUS OPULIFOLIUS) BETWEEN ROCKS PLACED ALONG STREAMBANK. SPACING SHALL BE 2 FT. X 2 FT. ROCK NEEDS TO BE LOOSELY DUMPED OR HAND PLACED AND NO THICKER THAN 2 FEET.

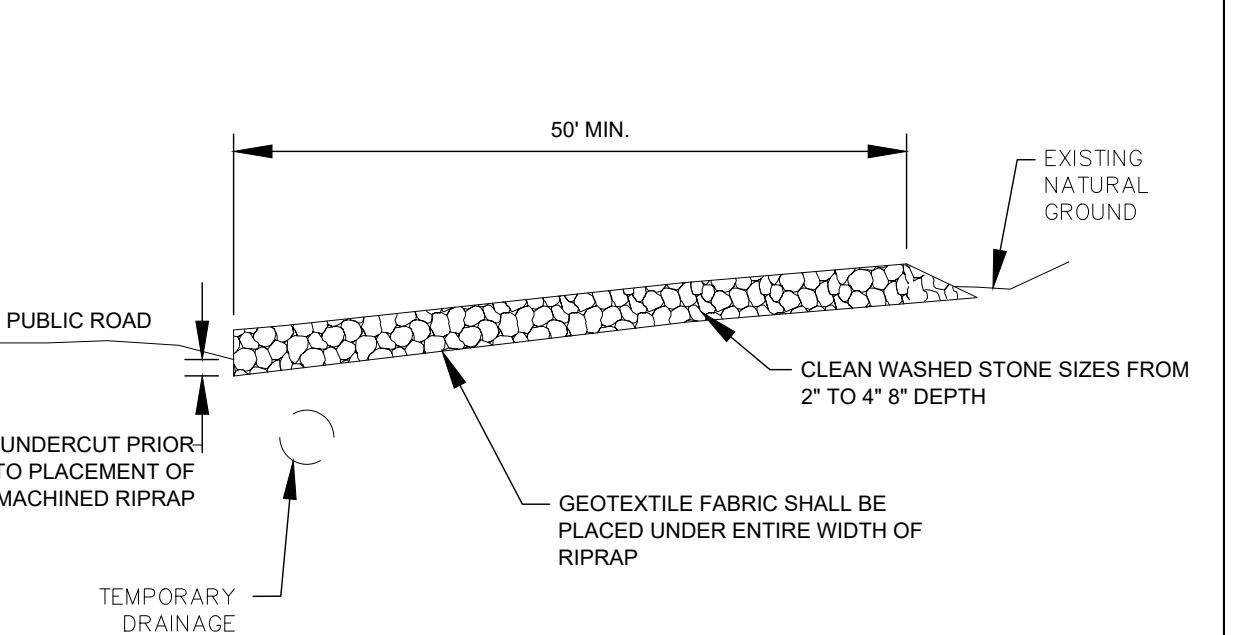
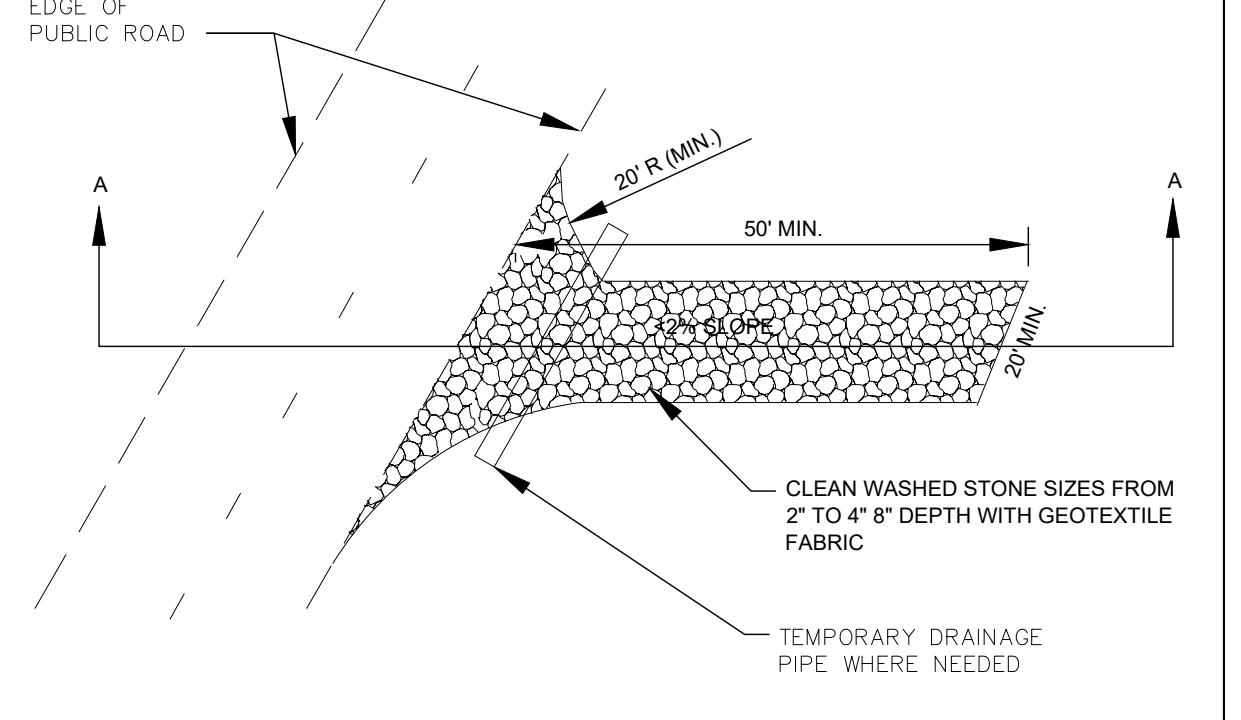
BIOENGINEERED STREAM BANK RESTORATION DETAIL
NTS



SILT FENCE DETAIL
NTS



INLET PROTECTION
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CONSTRUCTION ENTRANCE
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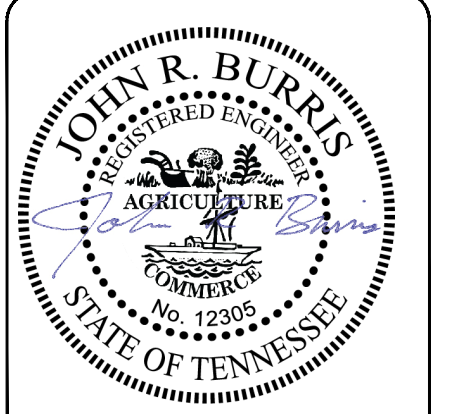
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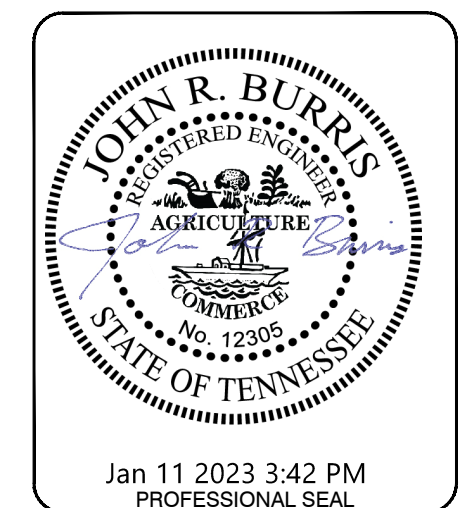
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DRAWING TITLE:
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