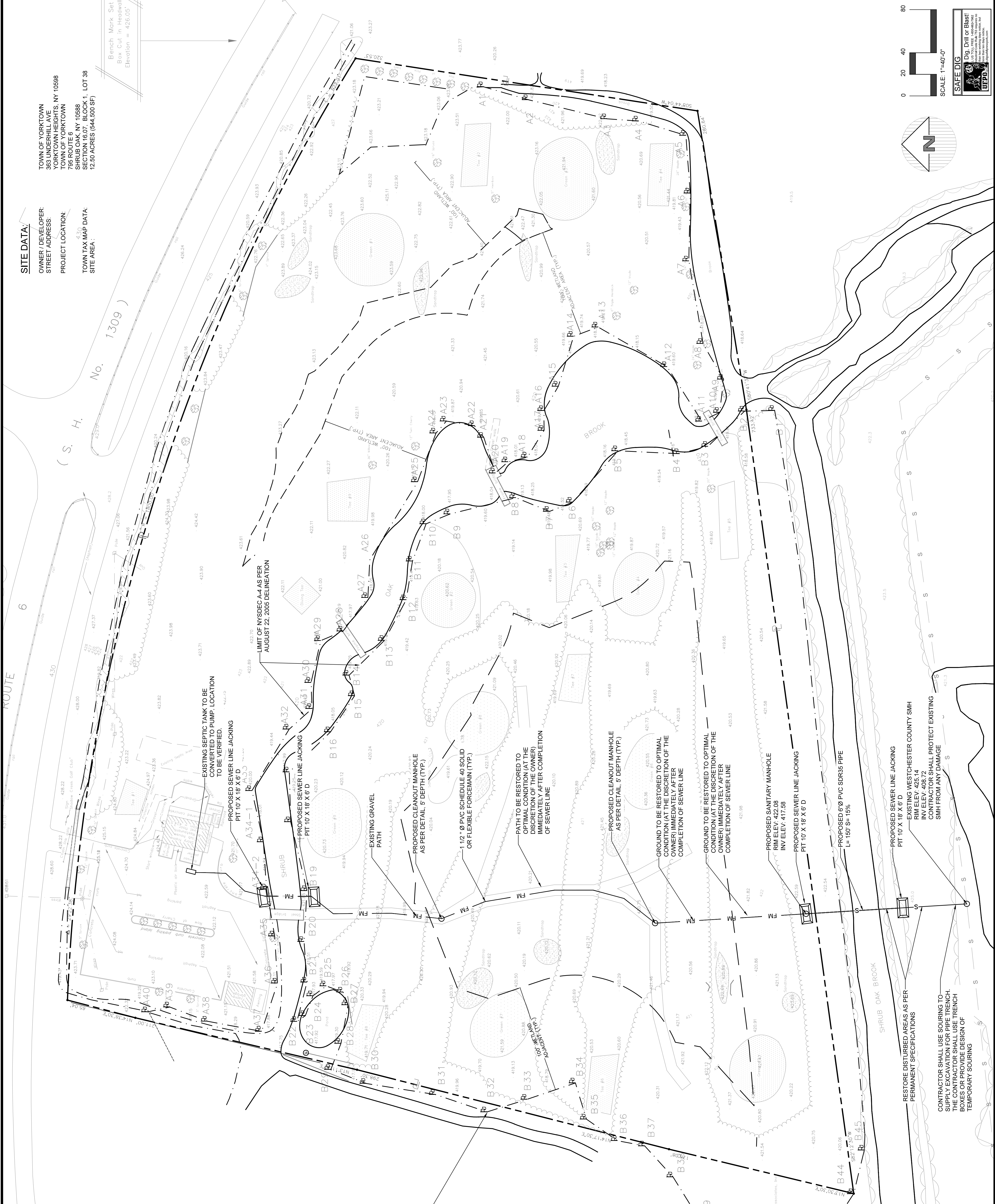


LOCATION MAP
NOT TO SCALE

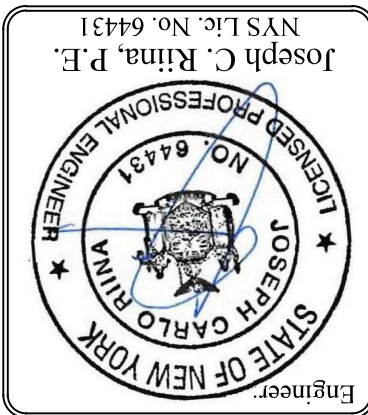


SITE DATA:
OWNER / DEVELOPER:
STREET ADDRESS:
PROJECT LOCATION:
TOWN TAX MAP DATA:
SITE AREA:

TOWN OF YORKTOWN
363 UNDERHILL AVE
YORKTOWN HEIGHTS, NY 10598
TOWN OF YORKTOWN
795 ROUTE 6
SHRUB OAK BLK 1, LOT 38
12.50 ACRES (644,500 SF)

Bench Mark Set
Box Cut in Headwall
Elevation = 426.05'

Site Design Consultants
Civil Engineers • Land Planners
251-F Underhill Avenue, Yorktown Heights, NY 10598
(914) 962-4488 • Fax: (914) 962-7386
www.sitedesignconsultants.com



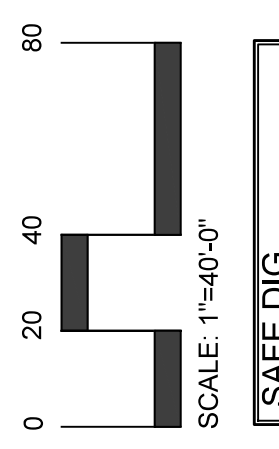
Revisions:

No.	Date	Comments

SCALE: #####
DRAWN BY: JPT
DATE: 3-12-25

SEWER CONNECTION PLAN

PREPARED FOR
TOWN OF YORKTOWN
GOLF COURSE
795 EAST MAIN STREET (ROUTE 6)
Westchester, NY
Town of Yorktown



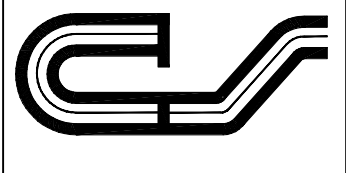
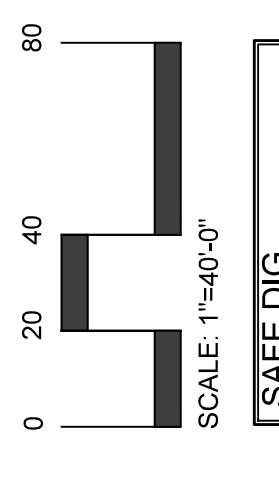
NOTE: UNLESS INDICATED OTHERWISE, ALL DIMENSIONS ARE IN FEET AND INCHES. THIS DRAWING IS A VIOLATION OF SECTION 2602 OF THE NEW YORKS PROFESSIONAL ENGINEERING LAW.

No.	Date	Comments

Engineer
Joseph C. Riina, P.E.
STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
NO. 64451
NYSLIC No. 64451

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251-F Underhill Avenue, Yorktown Heights, NY 10598
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Project No. 24-31

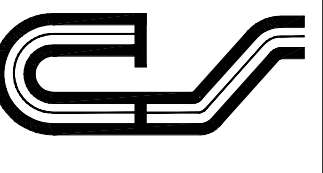
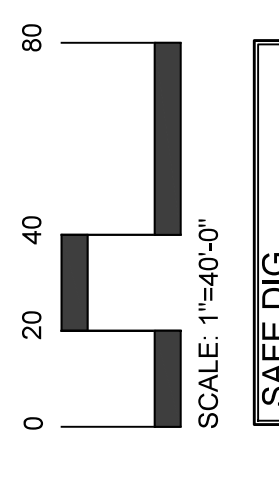
SAFE DIG
Dig, Drill or Blast
USE THE APPROPRIATE SAFETY
PROCEDURES FOR ALL TYPES OF
UNDERGROUND UTILITY LOCATIONS
AND DEPTHS.
UPPU

Revisions:	No.	Date	Comments:

Engineer:
Joseph C. Riha, P.E.
STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
NO. 6451
NYS Lic. No. 64431

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Project No. 24-31

6

Bench Mark See Box Cut in Hicrow Elevation = 426.05'

LIMIT OF NYSDEC A-4 AS PER AUGUST 22, 2005 DELINEATION

PROPOSED SOIL STOCKPILE AREA (TYP.)

EXISTING GRAVEL PATH

SHRUB

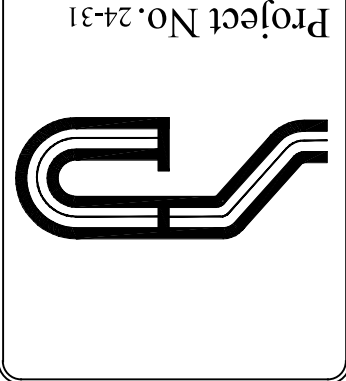
DEWATERING BAG (TYP.)

SILT FENCE (TYP.)

PROPOSED APPROXIMATE LIMIT OF DISTURBANCE AREA OF DISTURBANCE = 18,079 S.F.

LIMIT OF NYSDEC A-4 AS PER AUGUST 22, 2005 DELINEATION

NOTE: UNLESS INDICATED OTHERWISE, ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF. THIS DRAWING IS A VULNERABLE DOCUMENT UNDER SECTION 87(2)(b) OF THE NEW YORK STATE EDUCATION LAW.



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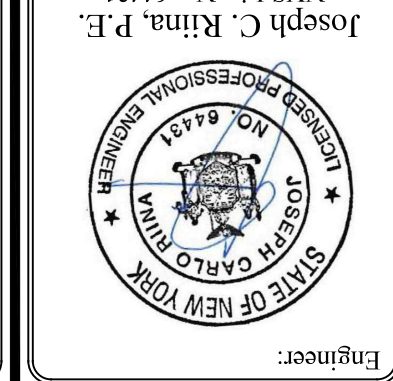


Table with 2 columns: No., Date, Comments

SCALE: #####
DRAWN BY: JPT
DATE: 3-12-25

PROJECT NOTES

TOWN OF YORKTOWN
GOLF COURSE
795 EAST MAIN STREET (ROUTE 6)
Westchester, NY
PREPARED FOR

Trenchless Installation:
Sub-Sections A through H are directly quoting sections of the NYS DOT guidance EI 07-017. Title: DESIGN GUIDANCE FOR TRENCHLESS INSTALLATION OF CASING

GENERAL
The intent of the specification is to pay the Contractor for opening a cased hole from one point to another, as indicated in the contract documents. For instances where a utility is to be installed, the item may be used to open a hole/pathway for the placement of the utility carrier pipe.
The specification is organized by casing size (XX denotes casing diameter size).

- A. Pipe Jacking (PJ). A technique for installing a prefabricated pipe through the ground from a drive shaft to a reception shaft. The pipe is propelled by jacks located in the drive shaft. The jacking force is transmitted through the pipe to the face of the PJ excavation. The excavation is accomplished, and the spoil is transported out of the jacking pipe and shaft manually or mechanically. Both the excavation and spoil removal processes require workers to be inside the pipe during the jacking operation.
- B. Microtunneling (MT). A remotely controlled, guided pipe-jacking process that provides a means of installing a prefabricated pipe through the ground from a drive shaft to a receiver shaft. The drive shaft communicating a reference line to a target mounted inside the MT machine's articulated steering head. The MT process provides ability to control excavation face stability by applying mechanical or fluid pressure to counterbalance the earth and hydrostatic pressures.
- C. Horizontal/Directional Drilling (HDD). A 2-stage process that consists of drilling a small diameter pilot directional hole along a predetermined path and then developing the pilot hole into a suitable bore hole that will accommodate the desired utility and then pulling the utility into place. The HDD process provides the ability to track the location of the drill bit and steer during the drilling process. Vertical profile bore holes are typically in the shape of a curve, and are drilled to form a support to the bore hole.
- D. Because trenchless installations are typically specified to minimize/eliminate disturbance to the surrounding area, the specification dictates monitoring tasks for the Contractor to perform. A survey of the existing ground surface along the proposed path of casing installation, prior to the start of work, will establish baseline data. The trenchless installation process will be closely monitored during its operation to minimize/eliminate ground movements. The designer should ensure that the project contains Item 625.01 Survey and Stakeout.
- E. If Pipe Jacking or Utility Tunneling is determined to be the method of installation during the design process, the contractor shall be responsible for providing the necessary equipment for pipe during the jacking operation. Work will proceed in accordance with §107.05 R. Confined Spaces and a written confined space plan (addresses prevention of unauthorized entry, type of hazard, work practices, monitoring, provision for attendant, duties of employees, rescue and emergency medical services, multi-employer operations, and provisions for review procedures).
- F. Pipe Jacking (PJ). The pipe jacking method installs a prefabricated pipe through the ground from a drive shaft to a reception shaft by propelling it by jacks located in the drive shaft. The jacking force is transmitted through the pipe to the face of the PJ excavation. Therefore, the type of casing must be capable of transmitting the required jacking forces from the thrust plate to the jacking shaft/steering casing, reinforced concrete pipe (RCP), or glass-fiber reinforced polymer (GFRP) pipe. The contractor shall be responsible for providing the necessary equipment for pipe during the jacking operation. Work will proceed in accordance with §107.05 R. Confined Spaces and a written confined space plan (addresses prevention of unauthorized entry, type of hazard, work practices, monitoring, provision for attendant, duties of employees, rescue and emergency medical services, multi-employer operations, and provisions for review procedures).
- G. Microtunneling (MT). The microtunneling method is a remotely controlled, guided pipe-jacking process. Since the microtunneling process is cyclic pipe jacking process, the discussion on the pipe jacking method applies. Steel casing, reinforced concrete pipe (RCP), or glass-fiber reinforced plastic pipe (GFRP) are the most common types of casing used. • Steel pipe shall be bare steel casing pipe meeting the requirement of ASTM A53, Grade B, or approved equal. • High Density Polyethylene (HDPE) pipe shall be SDR-11 and shall meet the requirements of AWWA C905, PPI PE 3409 and ASTM D3350 B PPE 345444C.

Continuation of Construction Sequence
STREAM CROSSING JACKING PIT CONSTRUCTION SEQUENCE:
REFER TO THE PLAN SET FOR ALL PLANS AND DETAILS WHICH RELATE TO CONSTRUCTION SEQUENCE.
1. PRIOR TO ANY WORK, A LICENSED SURVEYOR MUST DEFINE INFRASTRUCTURE LOCATIONS, LIMITS OF DISTURBANCE, STORMWATER BASIN, LIMITS, AND GRADES IN THE FIELD. LIMITS OF DISTURBANCE SHALL BE MARKED WITH THE INSTALLATION OF CONSTRUCTION FENCE OR APPROVED EQUAL.
2. INSTALL ALL PERIMETER EROSION CONTROL MEASURES, CONSTRUCTION ACCESS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND THE ASSOCIATED DETAILS. INSTALL SILT FENCING AT THE BOTTOM OF SLOPES, DELINEATE CLEARING LIMIT WITH ORANGE CONSTRUCTION FENCE.
3. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND JUDGEMENT TO ENSURE SAFE AND SOUND RESOURCES FOR ALL CONSTRUCTION METHODS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PARTS OF THE WORK UNDER HIS CONTRACT.
4. THE CONTRACTOR WILL ENSURE ALL DEC REGULATIONS AND STANDARDS ARE ADHERED TO FOR THE PROTECTION OF LOCAL FAUNA, FLORA, WATERWAYS AND OVERALL ENVIRONMENT.
5. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE CHOSEN METHOD AND MATERIALS FOR THE TRENCHLESS UTILITY OPERATION.
6. EXCAVATE JACKING PIT AS PER PLAN TO THE DEPTH REQUIRED TO ACHIEVE ADEQUATE DEPTH FOR BORING UNDER STREAM. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL GRADES AND SLOPES TO BE MAINTAINED UNDER THE STREAM. THE PIT SHALL BE BUILT ON THE SIDE SLOPE 24:20 OR PROVIDE WIDE SHEETING. SHEETING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.
7. THE CONTRACTOR SHALL INSTALL TEMPORARY THE DEWATERING PIT, SILT BAG, AND PUMP TO REMOVE WATER FROM THE EXCAVATION.
8. THE CONTRACTOR SHALL PROCEED WITH THE BORING OPERATION INSTALLING ADEQUATE SLEEVE FOR ENCASES THE PROPOSED SEWER LINES 1 1/2" Ø PVC SCH40 SOLID OR FLEXIBLE FORCE MAIN AND 8" Ø SDR 35 PIPE ACROSS THE BROOK.
9. ONCE THE PIPES ARE IN PLACE AND ALL CONNECTIONS MADE THE PIT MAY BE BACKFILLED. THE BACKFILL SHALL BE THE NATIVE SOIL IN TWO FOOT COMPACTED LIFTS. THE PIT COVER BE BACKFILLED WITH WET MOIST OR DAMP SOIL IS NOT PERMISSIBLE. SOIL MUST BE DRY.
10. ONCE BACKFILLING IS COMPLETE RESTORE SURFACE CONDITIONS AS SPECIFIED BY THE OWNER.

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CODE OF THE TOWN OF YORKTOWN AND THE REGULATIONS OF THE WESTCHESTER COUNTY DEPARTMENT OF ENVIRONMENTAL FACILITIES.
2. SANITARY MANHOLE/LEANOUT MANHOLES SHALL BE PRECAST CONCRETE.
3. ALL WORK SHALL BE MANUFACTURED IN ACCORDANCE WITH APPROVED STANDARDS. MANHOLE POSITIONING SHALL BE AS TO PREVENT THE ENTRANCE OF SURFACE WATER DURING STORMS. MANHOLE RIMS ARE TO BE WATER TIGHT IN AREAS SUBJECT TO POSSIBLE FLOODING CONDITIONS.
4. SANITARY SEWER CONSTRUCTION SHALL MEET ALL SEWER CONSTRUCTION SPECIFICATIONS FOR THE TOWN OF YORKTOWN.
5. THE TOWN ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY WORK AND THE WCDPE.
6. A CODE 753 SHALL BE CALLED BEFORE THE START OF ANY EXCAVATION WORK.
7. ALL SEWERS SHALL BE LAID AT LEAST 10 FT HORIZONTALLY FROM AN EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
8. MANHOLE STEPS SHALL BE CAST IRON NEMAH NO. R-1981-0 OR CAMPBELL FOUNDRY NO. 2589-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
9. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE THE LETTERS "SEWER" CAST ON THE COVER.
10. MANHOLE COVERS AND STRUCTURES SHALL MEET OR EXCEED A S.T.M. AND O.S.H.A. REQUIREMENTS AND MUST BE RATED FOR H-20 LOADING. MANHOLES MUST BE MIN. 48" DIAMETER.
11. ALL SANITARY STRUCTURES SHALL RECEIVE 2 MIL COATS OF BITUMINOUS MATERIAL (INERTOL NO. 48) KOPPEERS SUPPLIER SERVICE BLACK OR APPROVED EQUAL, APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
12. G-RING JOINTS TO CONFORM TO A.S.T.M. DESIGNATION C-443 LATEST REVISION. JOINTS TO BE MORTARED INSIDE AND OUT USING NON-SHRINKING MORTAR.
13. PRE-CAST MANHOLE SECTIONS TO BE IN ACCORDANCE WITH "PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS" A.S.T.M. DESIGNATION C-478 LATEST REVISION. MINIMUM COMPRESSIVE STRENGTH TO BE 4000 P.S.I.
22. WHERE SEWER MAIN IS TO BE INSTALLED 10" DEEP OR GREATER, PVC SDR-26 SHALL BE USED.
14. WATER MAINS CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS, SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION OF A MINIMUM OF 18" BETWEEN THE BOTTOM OF WATER MAIN AND TOP OF SEWER IN ADDITION, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF THE JOINTS AND THE SEWER SETTLING AND BREAKING THE WATER MAIN. IN ADDITION, THE LENGTH OF WATER PIPE IS TO BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUITANT AND AS FAR AS POSSIBLE FROM A SEWER OR SEWER MANHOLE.
15. MANHOLES AND SANITARY SEWER LINES SHALL BE TESTED TO CONFORM WITH WESTCHESTER COUNTY AS PER CONTRACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
16. THE WESTCHESTER COUNTY TOWN ENGINEER SHALL BE PROVIDED A 48 HOUR NOTICE PRIOR TO THE TESTING OF THE INSTALLED UTILITIES TO ALLOW WITHNESSING OF TESTING BY THE DEPARTMENT.
17. ALL INSTALLATIONS AND TESTING SHALL BE IN ACCORDANCE WITH THE TEN STATES STANDARDS, LATEST VERSION.

GENERAL CONSTRUCTION NOTES:
1. FINISHED GRADES SHALL BE SUCH MARK FROM THE SURVEYOR IN THE SAME DATUM AS THE DESIGN PLANS.
2. CONSTRUCTION ACTIVITY SHALL BE LIMITED FROM 8:00 A.M. TO 6:00 P.M. AND NO CONSTRUCTION ACTIVITY SHALL OCCUR ON SUNDAYS OR LEGAL NEW YORK STATE HOLIDAYS. WHERE BLASTING IS NECESSARY, IT SHALL OCCUR FROM MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 6:00 A.M. AND 6:00 P.M. NO BLASTING SHALL OCCUR ON HOLIDAYS, SATURDAY OR SUNDAY. ALL BLASTING SHALL ALSO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF YORKTOWN AND NEW YORK STATE BLASTING ORDINANCES.
4. NO CRUSHING OR PROCESSING IS PERMITTED ON THE SITE WITHOUT PRIOR APPROVAL BY THE TOWN OF YORKTOWN PLANNING BOARD.
5. ALL MATERIALS TO BE REMOVED FROM THE SITE OR DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL STANDARDS. IF NECESSARY THE REMOVAL SHALL BE DONE BY A CONTRACTOR LICENSED TO REMOVE AND DISPOSE OF VARIOUS MATERIALS

SANITARY SEWER NOTES (NON-GRAVITY SYSTEM):

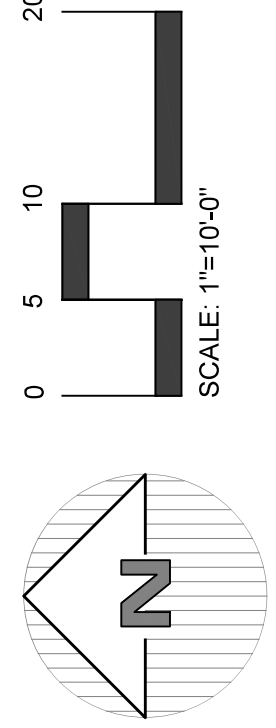
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- 15. MANHOLES AND SANITARY SEWER LINES SHALL BE TESTED TO CONFORM WITH WESTCHESTER COUNTY AS PER CONTRACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
- 16. THE WESTCHESTER COUNTY TOWN ENGINEER SHALL BE PROVIDED A 48 HOUR NOTICE PRIOR TO THE TESTING OF THE INSTALLED UTILITIES TO ALLOW WITHNESSING OF TESTING BY THE DEPARTMENT.
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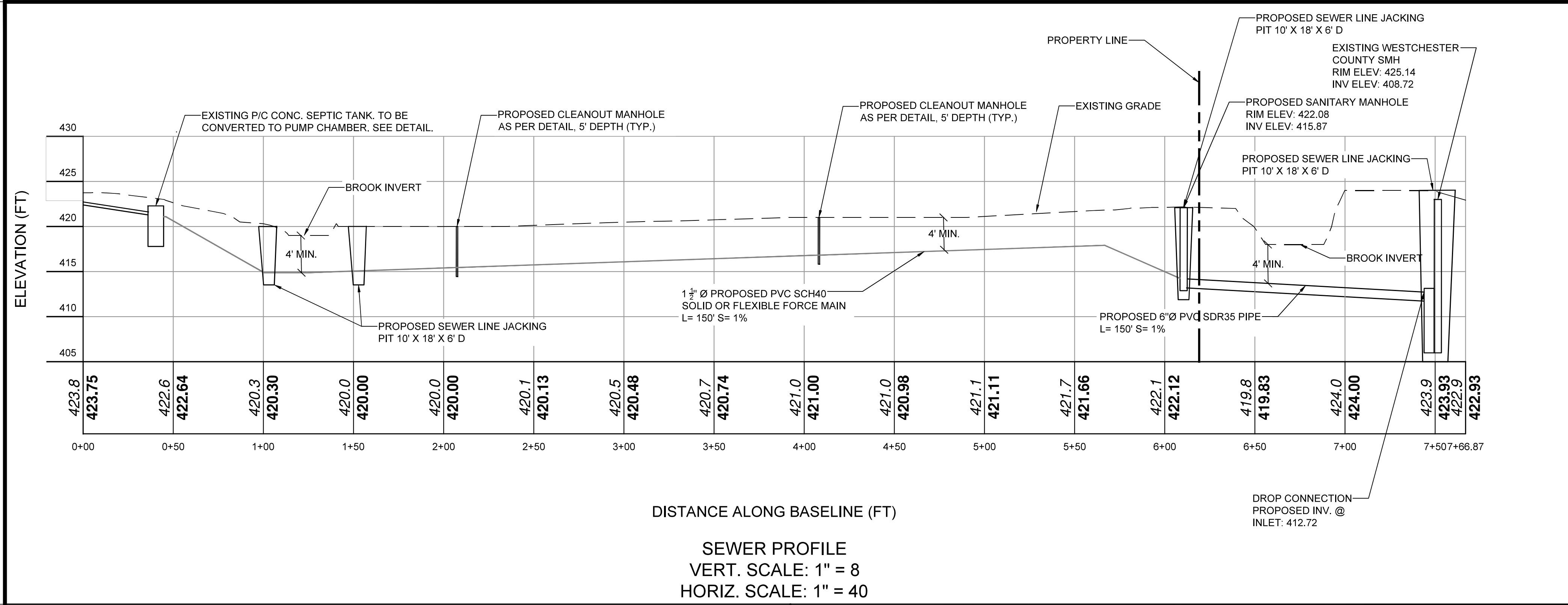
SANITARY SEWER TESTING

PROCEDURE AND METHOD OF TESTING - THE TEST LENGTH INTERVALS AND TYPE OF LEAKAGE TEST SHALL BE APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AND SITE ENGINEER. IN THE CASE OF SEWERS LAID ON STEEP GRADES, THE LENGTH OF LINE TO BE TESTED BY EXFILTRATION AT ANY ONE TIME MAY BE LIMITED BY THE MAXIMUM ALLOWABLE INTERNAL PRESSURE ON THE PIPE AND JOINTS AT THE LOWER END OF THE LINE, DEPENDING ON FIELD CONDITIONS AND/OR DESIRE OF THE CONTRACTOR. THE FOLLOWING TESTS FOR LEAKAGE MAY BE EMPLOYED:

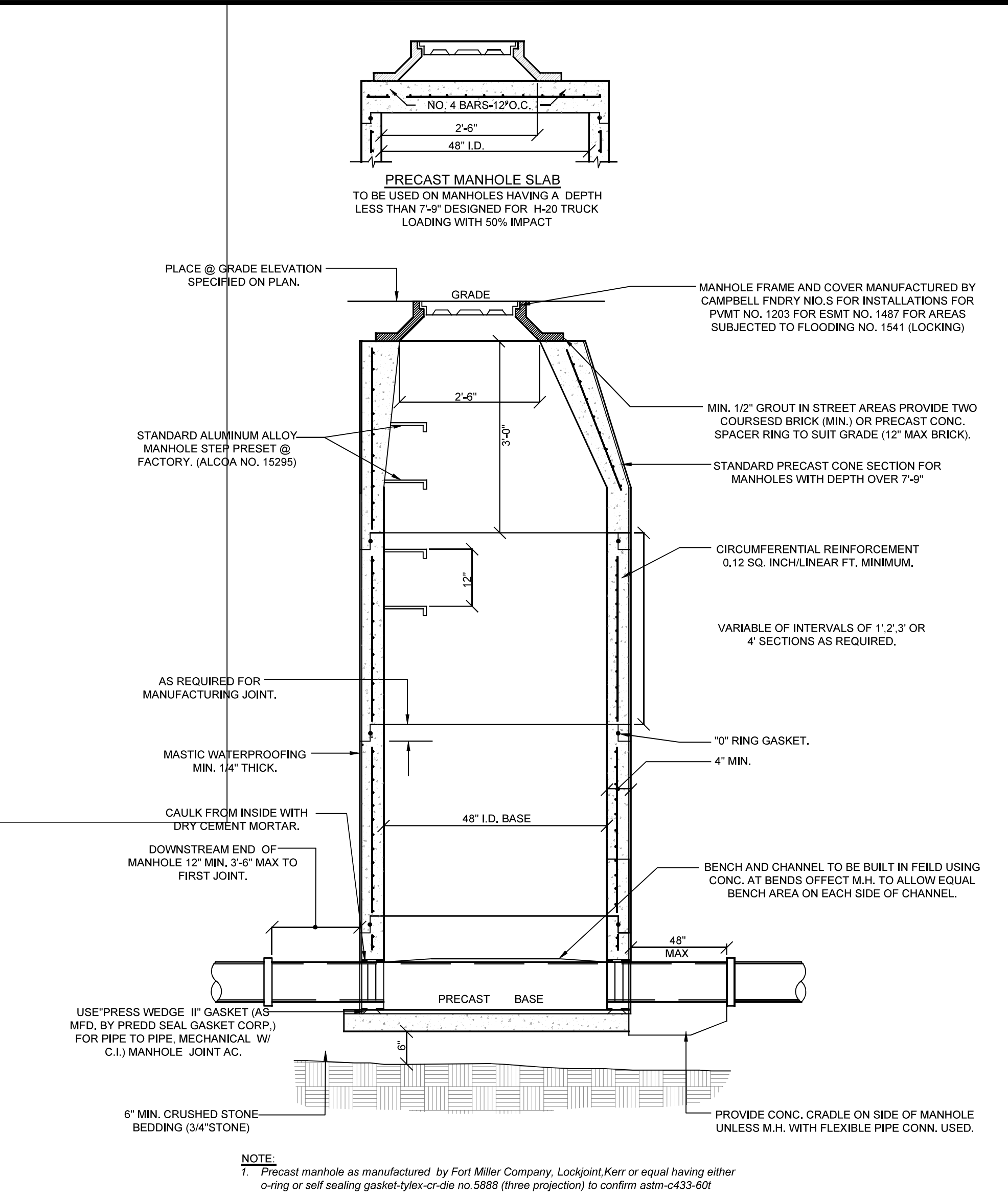
- 1. LOW-PRESSURE AIR TEST OF PIPE LINES.
PLUG ALL OPENINGS IN THE TEST SECTION. ADD AIR UNTIL THE INTERNAL PRESSURE OF THE LINE IS RAISED TO APPROXIMATELY 4.0 PSI. AFTER THE PRESSURE IS REACHED, ALLOW THE PRESSURE TO STABILIZE. THE PRESSURE WILL NORMALLY DROP AS THE AIR TEMPERATURE STABILIZES. THIS USUALLY TAKES 2 TO 5 MIN. DEPENDING ON THE PIPE SIZE. THE PRESSURE MAY BE REDUCED TO 3.5 PSI BEFORE STARTING THE TEST.
WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE THE STARTING TEST PRESSURE OF 3.5 PSI, START THE TEST. IF THE PRESSURE DROPS MORE THAN 1.0 PSI DURING THE TEST TIME, THE LINE IS PRESUMED TO HAVE FAILED THE TEST. IF A 1.0-PSI DROP DOES NOT OCCUR WITHIN THE TEST TIME, THE LINE HAS PASSED THE TEST.
- TEST TIMES ARE FOR A 1.0 PSI PRESSURE DROP FROM 3.5 TO 2.5 PSI. IF THE SECTION OF LINE TO BE TESTED INCLUDES MORE THAN ONE PIPE SIZE, CALCULATE THE TEST TIME FOR EACH SIZE AND ADD THE TEST TIMES TO ARRIVE AT THE TOTAL TEST TIME FOR THE SECTION. MINIMUM TEST TIMES FOR VARIOUS PIPE SIZES IN INCHES ARE AS FOLLOWS:

PIPE SIZE (INCHES)	MIN. TEST TIME (MIN.)
UP TO 8	12
10	18
12	18
14	18

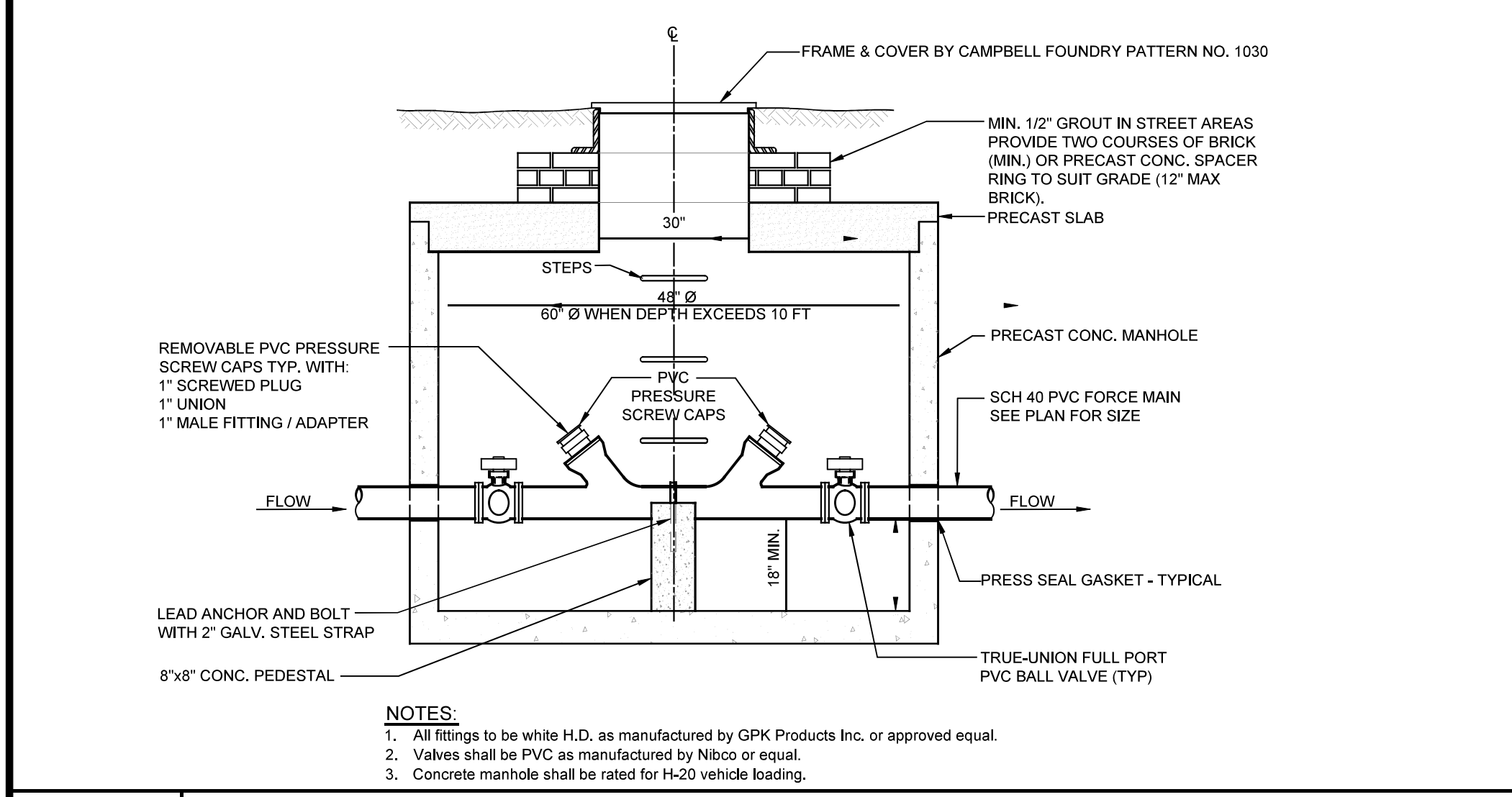




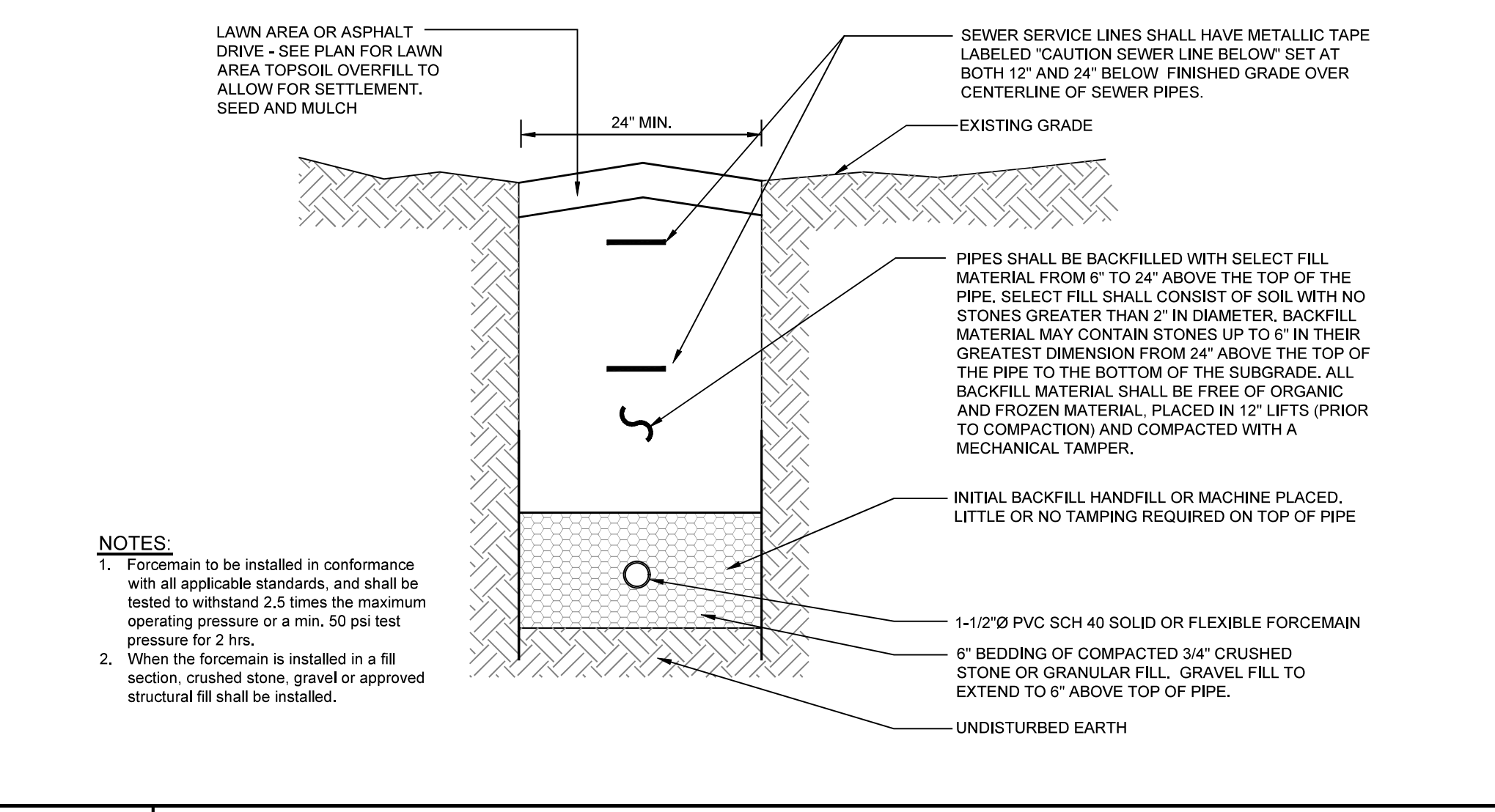
SEWER PROFILE
VERT. SCALE: 1" = 8
HORIZ. SCALE: 1" = 40



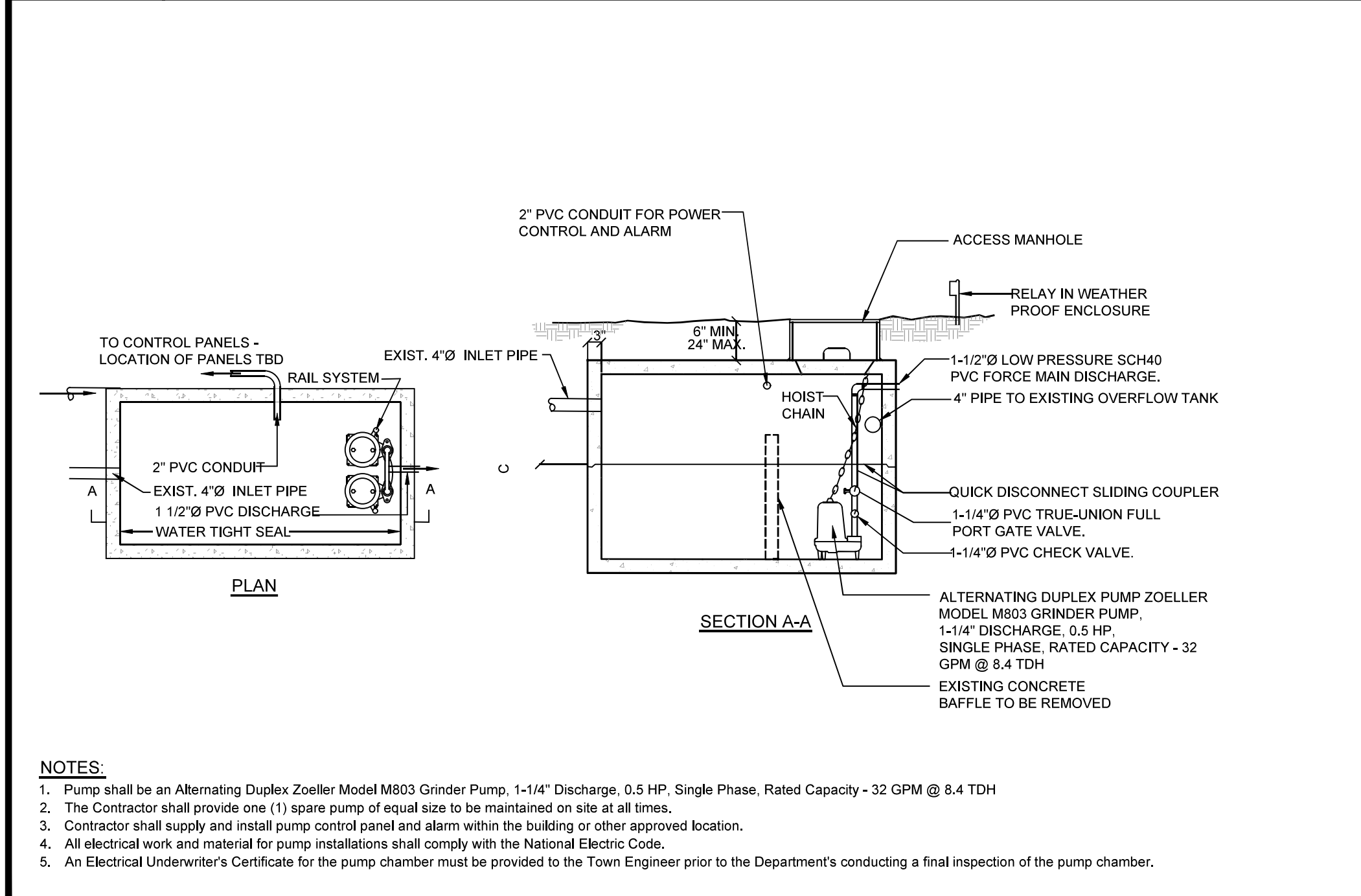
S-6 SEWER MANHOLE DETAIL
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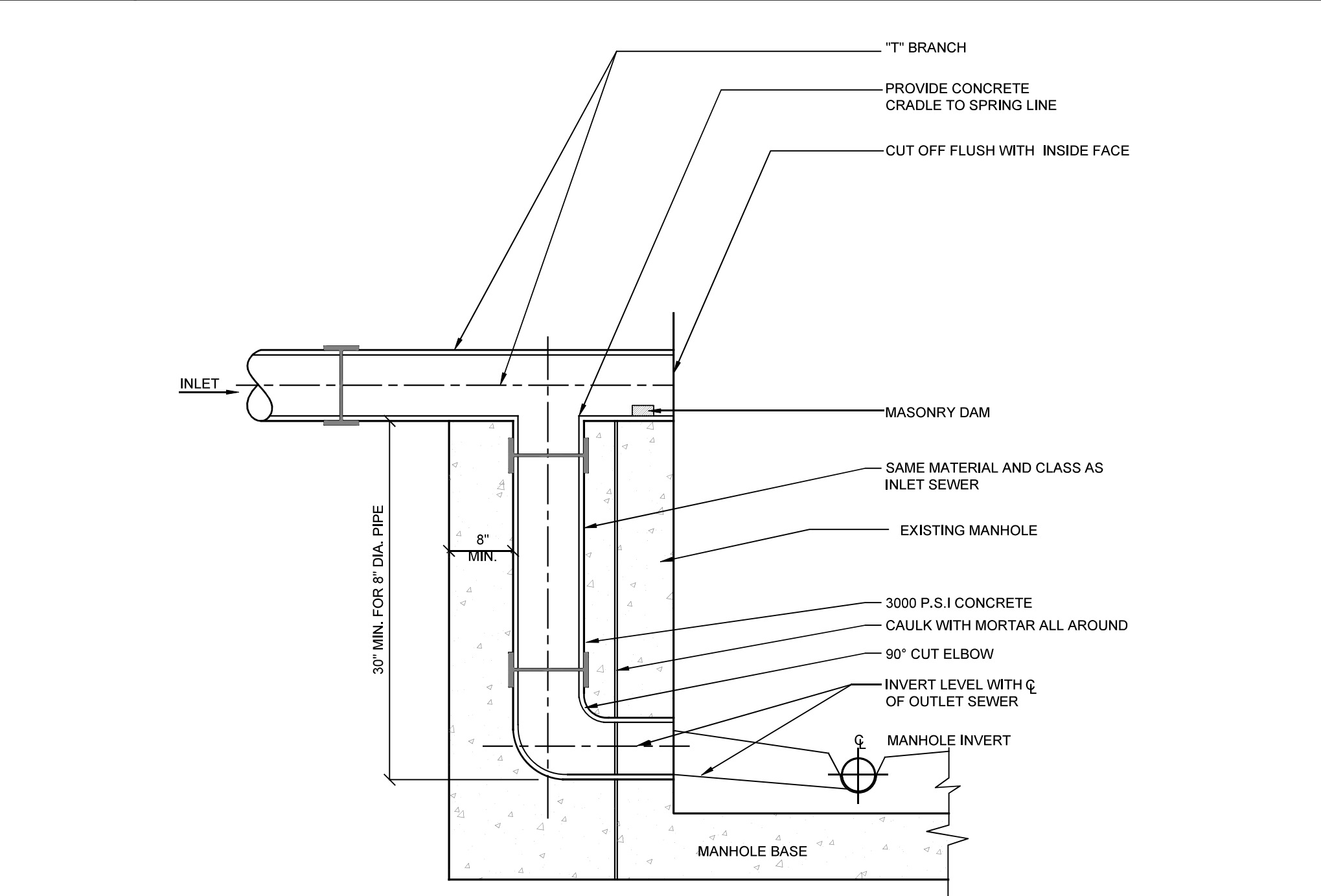
S-1 FORCE MAIN CLEAN-OUT DETAIL
NOT TO SCALE



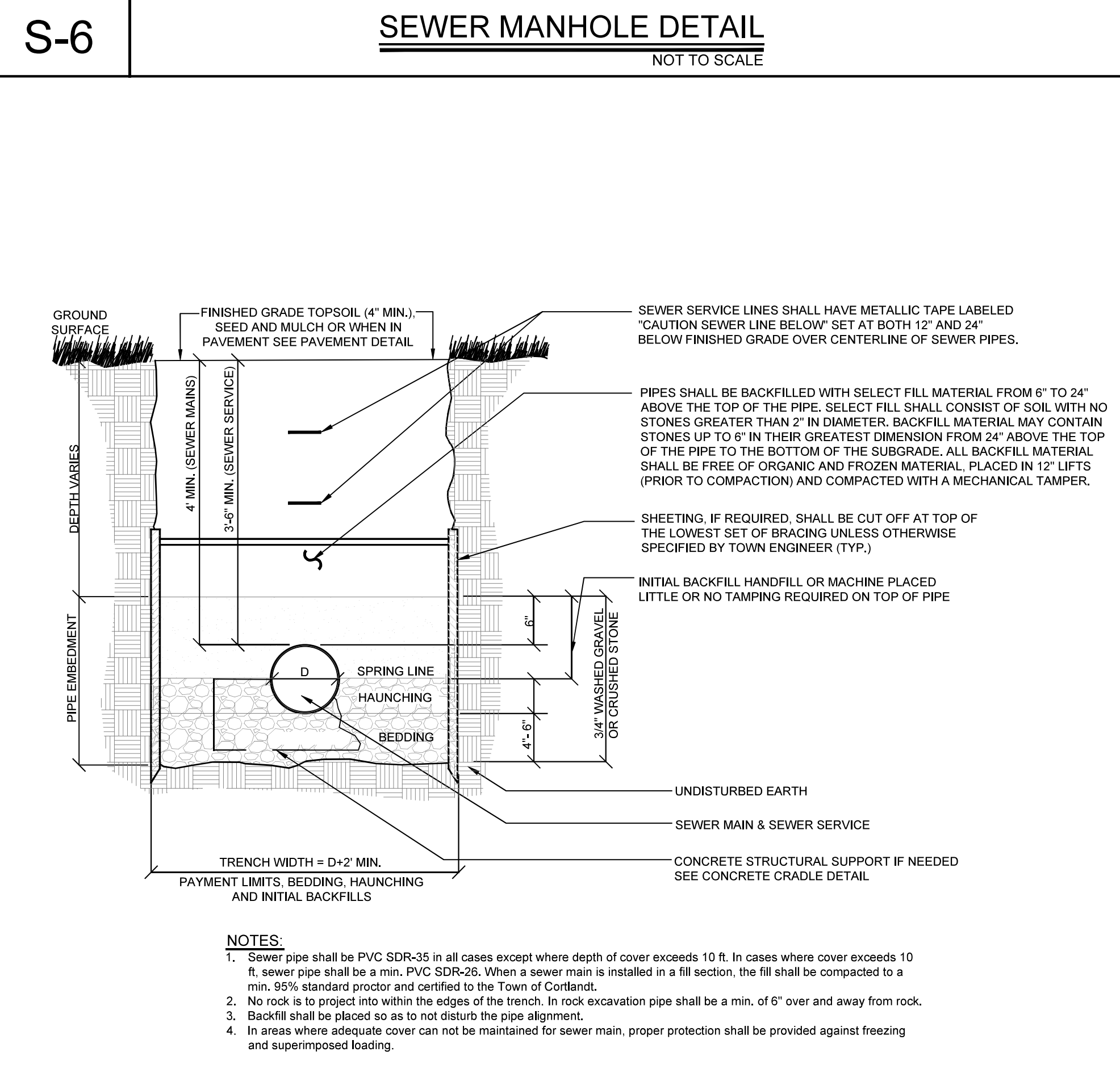
S-2 LOW PRESSURE FORCE MAIN DETAIL
NOT TO SCALE



S-3 PUMP CHAMBER DETAIL
NOT TO SCALE



S-4 DROP MANHOLE DETAIL
NOT TO SCALE



S-5 SEWER MAIN / SEWER SERVICE TRENCH DETAIL
NOT TO SCALE

Revisions:	No.	Date	Comments:

SCALE: #####	DRAWN BY: JPT	DATE: 3-12-25
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SEWER DETAILS