

GENERAL UTILITY NOTES:

- COORDINATE ALL SITE UTILITY WORK WITH THE MECHANICAL AND ELECTRICAL DRAWINGS.
- THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS, AS-BUILT PLANS, AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY CONTRACTOR'S WORK FORCE.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL FEES ASSOCIATED WITH PERMITS REQUIRED TO PERFORM THE WORK PROPOSED ON THESE PLANS (I.E. TAPPING, INSPECTION, ETC.).
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- SANITARY AND WATER LINE SHALL BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.)
- ALL UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- RIMS OF EXISTING STRUCTURES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITH WATER TIGHT LIDS.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND GAS SERVICE.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICTS, AS WELL AS COORDINATING WITH THE AUTHORITY HAVING JURISDICTION UTILITY REQUIREMENTS AS TO ASSURE PROPER LOCATION AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST WVA DESIGN AND CONSTRUCTION STANDARDS.
- THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY THE WESTERN VIRGINIA WATER AUTHORITY IN WRITING AT LEAST THREE (3) DAYS PRIOR TO ANY CONSTRUCTION. PLEASE CONTACT MARK SINK AT (540) 537-3460.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE WESTERN VIRGINIA WATER AUTHORITY.
- FIELD CORRECTIONS SHALL BE APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY PRIOR TO SUCH CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE VERTICALLY AND 2' MINIMUM HORIZONTALLY FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT ALL WATER, SANITARY SEWER CROSSINGS OF ANY OTHER UTILITIES. WHERE THIS CANNOT BE ACHIEVED ADDITIONAL MEASURES IN ACCORDANCE WITH WVA STANDARDS SHALL BE ENFORCED.
- ANY EXISTING APPURTENANCES SHOULD BE ADJUSTED TO GRADE AND NEW FRAME AND COVERS INSTALLED WHERE REQUIRED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UTILITIES LOCATED AND POTHOLED TO VERIFY LOCATIONS. THIS PLAN REVIEW DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY EXISTING CONFLICTS FOUND DURING CONSTRUCTION.

CODED NOTES:

- ELECTRIC SERVICE. CONTRACTOR TO COORDINATE WITH POWER COMPANY FOR CONNECTION.
- TELEPHONE SERVICE. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR CONNECTION.
- 1.5" WATER SERVICE LINE PER WESTERN VIRGINIA WATER AUTHORITY REQUIREMENTS. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR CONNECTION.
- GAS SERVICE. CONTRACTOR TO COORDINATE WITH GAS COMPANY FOR CONNECTION.
- SANITARY SERVICE LINE PER WESTERN VIRGINIA WATER AUTHORITY REQUIREMENTS. SERVICE TO BE INSTALLED PER COUNTY REGULATIONS AND SPECIFICATIONS. CONTRACTOR TO FIELD LOCATE EXISTING SANITARY SERVICE STUB AND VERIFY INVERT PRIOR TO BEGINNING ANY WORK AND ADJUST CONNECTIONS AS NECESSARY. NOTIFY THE ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
- 1" WATER METER TO BE PLACED WITHIN EXISTING WATER METER VAULT. PER WESTERN VIRGINIA WATER AUTHORITY. CONTRACTOR TO COORDINATE WITH SERVICE PROVIDER FOR CONNECTION.
- OIL-WATER SEPARATOR LOCATION WITHIN BUILDING. REFER TO PLUMBING PLANS FOR DETAILS.
- SANITARY SAMPLING MANHOLE, PER WESTERN VIRGINIA WATER AUTHORITY DETAILS.
- PRESSURE REDUCING VALVE (PRV), PER WESTERN VIRGINIA WATER AUTHORITY DETAILS.
- PROPOSED 20X10' SANITARY SEWER EASEMENT.

LEGEND

EXISTING

REFER TO TITLE SHEET FOR EXISTING FEATURES LEGEND

PROPOSED

SYMBOL	DESCRIPTION
STW	STORM SEWER
SAN	SANITARY SEWER
W	DOMESTIC WATER SERVICE
G	GAS SERVICE
UGE	UNDERGROUND ELEC. LINE
UGT	UNDERGROUND TEL. LINE
PRIV. UTILITY	PROPOSED EASEMENT
PUB. UTILITY	PRIVATE / PUBLIC UTILITY
CLEAN OUT	CLEAN OUT
METER	METER
WATER METER	WATER METER
WATER VALVE	WATER VALVE
ELECTRIC TRANSFORMER	ELECTRIC TRANSFORMER
SANITARY SAMPLING MANHOLE	SANITARY SAMPLING MANHOLE

UTILITY CROSSING SCHEDULE			
NO.	UTILITY	ELEVATIONS	DIFF.
A	PR. 6" SAN	B/PIPE = 1026.92	2.30
	PR. 12" STM	T/PIPE = 1024.62	
B	PR. 1 1/2" WATER	B/PIPE = 1025.90 ±	1.41
	PR. 12" STM	T/PIPE = 1024.49	

WATER NOTES:

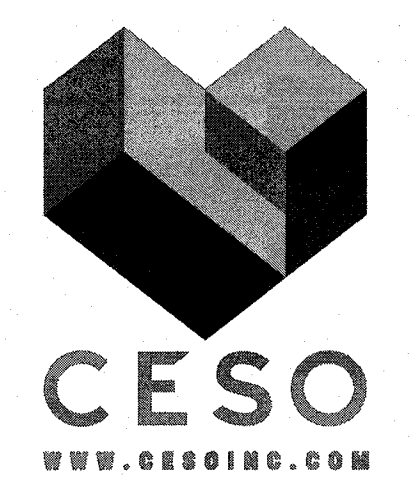
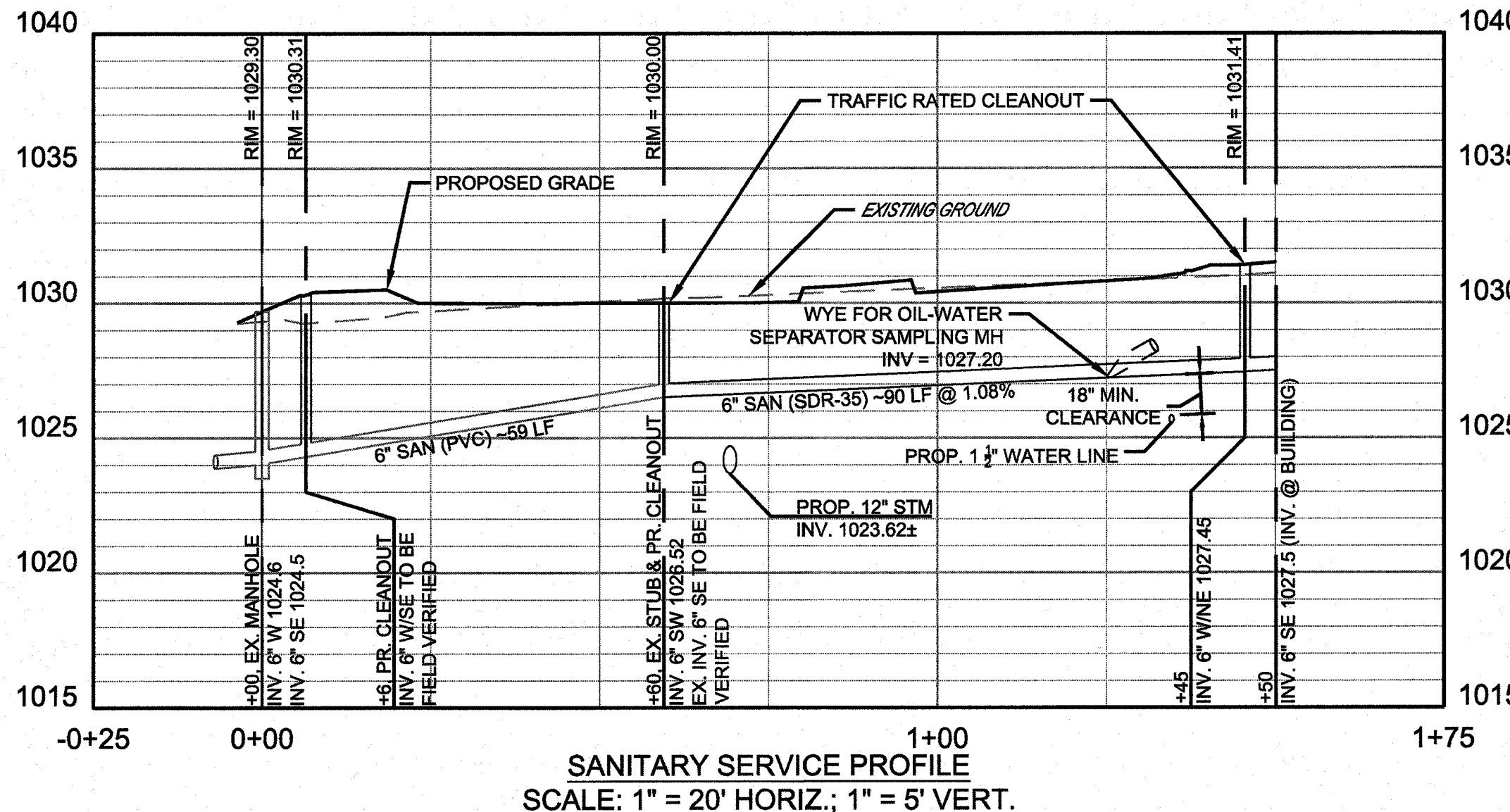
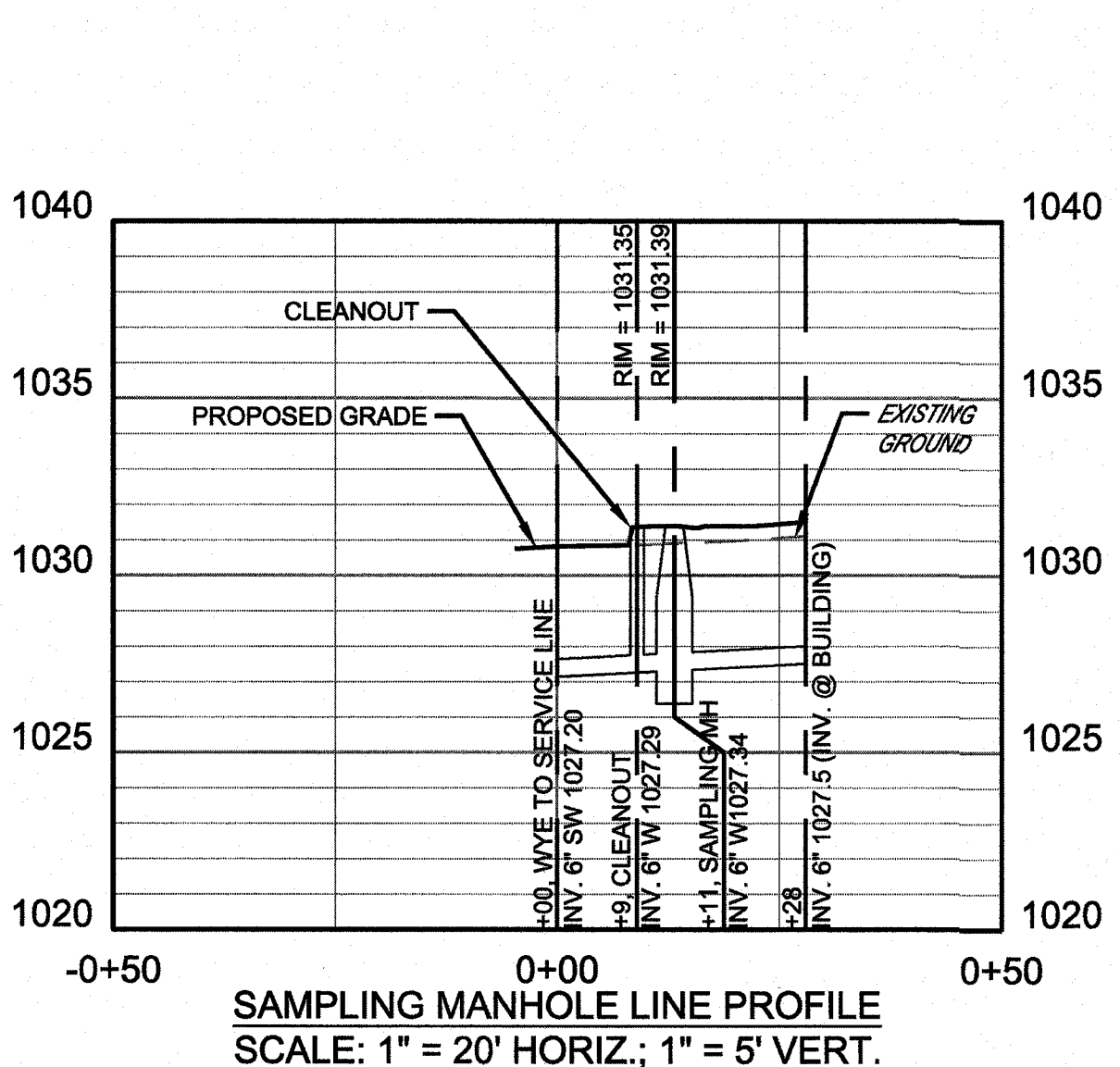
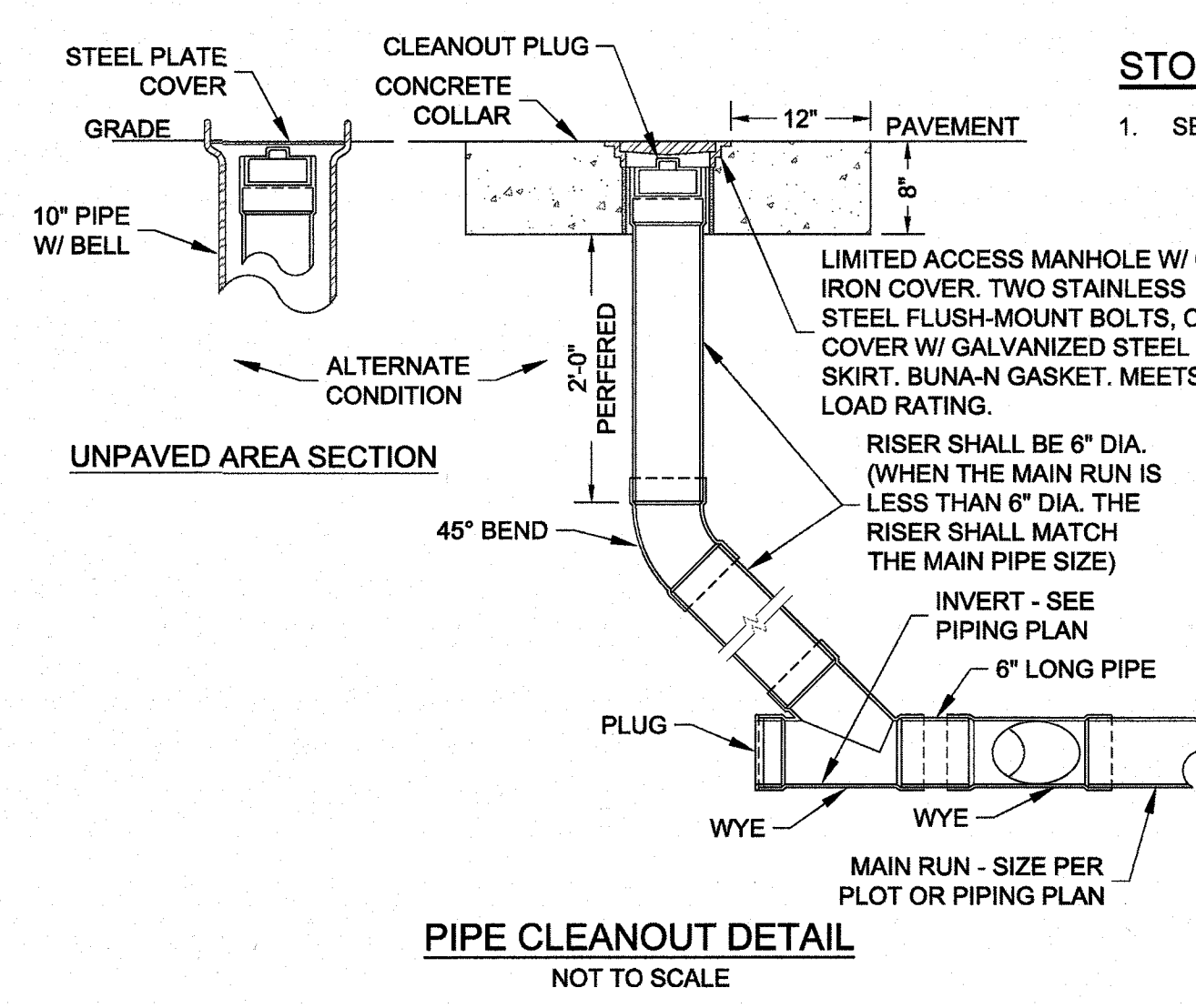
- WATER SERVICE MATERIAL LARGER THAN 2" SHALL BE DUCTILE IRON IN CONFORMANCE WITH ANSI A21.51 (AWWA C151) DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS AND ANSI A21.50 (AWWA C150) THICKNESS DESIGN OF IRON PIPE. ALL SERVICE LINES 2" OR LESS SHALL BE COPPER TYPE K. SIZE TO BE AS NOTED IN PLAN VIEW. SERVICE CONNECTION TO HAVE MINIMUM COVER OF 60" COVER.
- ALL FITTINGS SHALL BE DUCTILE IRON IN CONFORMANCE WITH AWWA C110 OR AWWA C153. ALL FITTINGS SHALL BE RATED FOR 350 PSI WORKING PRESSURE, HAVE MECHANICAL JOINTS AND BE COATED AND CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104. ALL BOLTS AND NUTS SHALL BE COR-TEN.
- WATER LINE SHALL HAVE A MINIMUM BURY DEPTH OF 4'.
- A SEPARATE GATE VALVE, THE SAME SIZE AS THE METER CONNECTIONS, SHALL BE PLACED ON THE SERVICE PIPE ON BOTH SIDES OF THE METER. SUCH VALVES SHALL BE EQUAL IN QUALITY TO THE SERVICE COCK.
- ALL WATER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
- ALL WATER AND SANITARY SEWER FACILITIES ARE TO BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

SANITARY SEWER NOTES:

- ALL SANITARY SEWERS SHALL BE PVC, SDR 35 MATERIAL, CONFORMING TO ASTM SPECIFICATION D3034 WITH 3/4" STONE BEDDING.
- PVC PIPE SHALL HAVE AN INTEGRAL BELL AND JOINTS SHALL BE PREMIUM GASKETED JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 TO PROVIDE A WATERTIGHT SEAL AND SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL SANITARY SEWER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
- ALL WATER AND SANITARY SEWER FACILITIES ARE TO BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

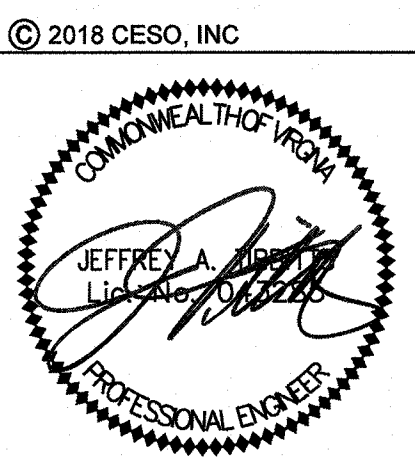
STORM SEWER NOTES:

- SEE GRADING PLAN FOR STORM SEWER NOTES.



NO.	REVISION	DATE
1	ISSUED FOR FINAL APPROVAL	10/19/18
2	BID SET	10/04/18
3	ISSUED FOR DEVELOPMENT PLAN RESUBMITTAL	09/24/18
4	ISSUED FOR DEVELOPMENT PLAN REVIEW	08/01/18
5	ISSUED FOR OWNER REVIEW	07/17/18

VALVOLINE INSTANT OIL CHANGE
4025 CHALLENGER AVE. NE
ROANOKE, VA



Project No.	755208
Scale	AS NOTED
Drawn	JUL
Checked	EJB
Date	07/17/18
Drawing Title	

UTILITY PLAN