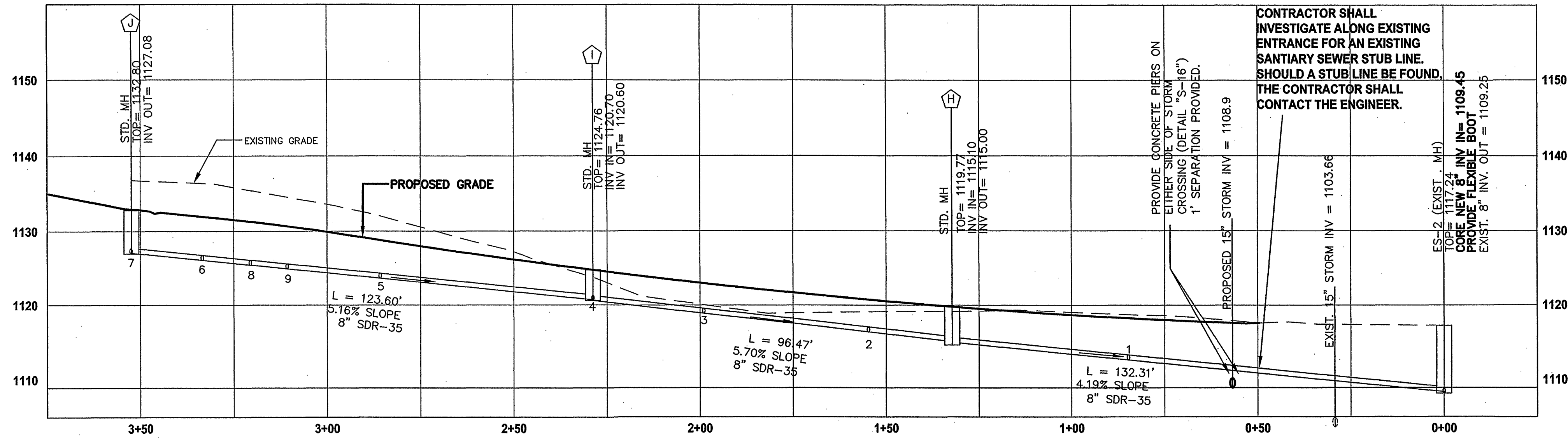
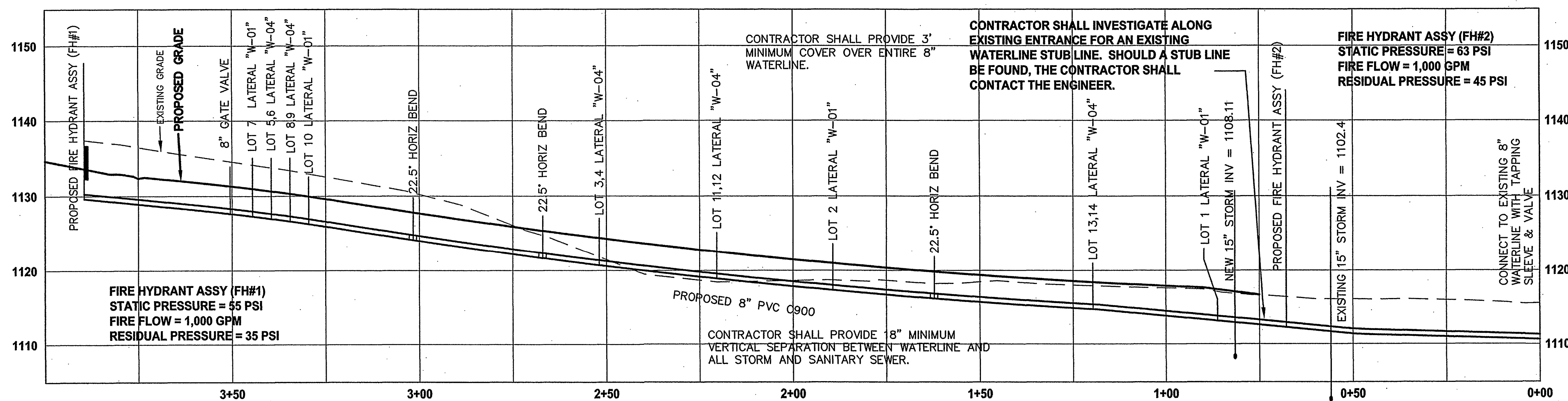




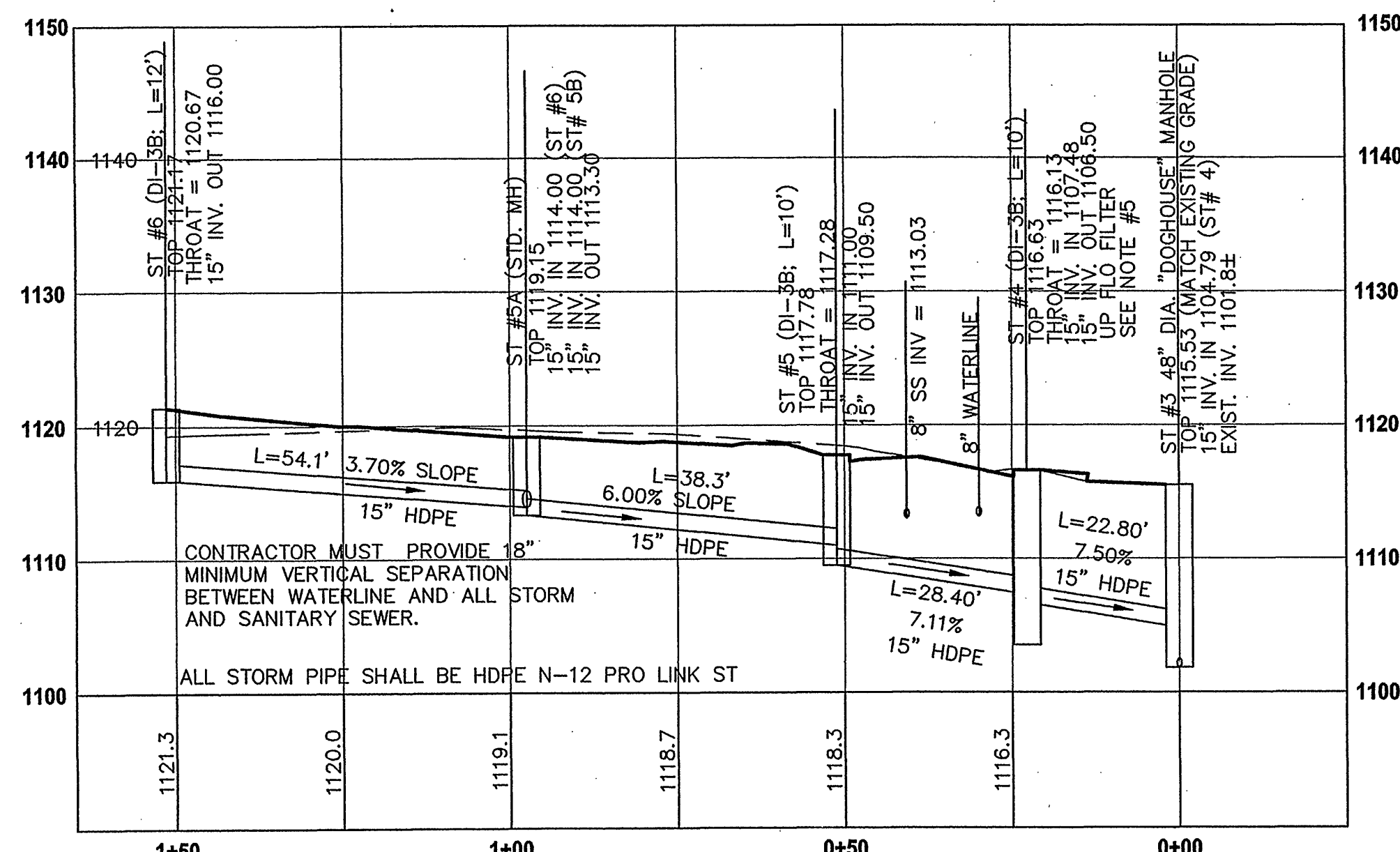
SENECA DRIVE SANITARY SEWER PROFILE

SCALE: HORZ. 1" = 20' ; VERT. 1" = 10'



SENECA DRIVE WATERLINE PROFILE

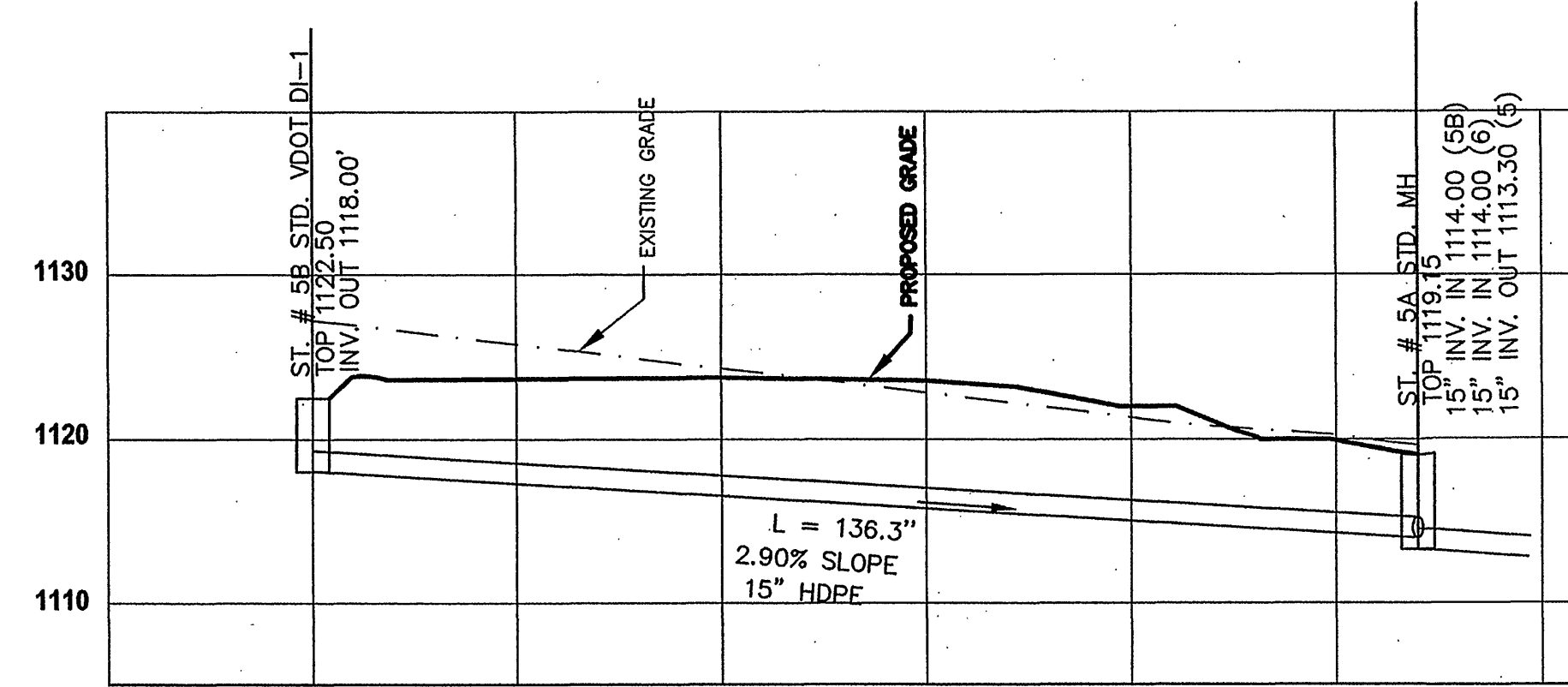
SCALE: HORZ. 1" = 20' ; VERT. 1" = 10'



SENECA DRIVE STORM SEWER PROFILE

SCALE: HORZ. 1" = 20' ; VERT. 1" = 10'

NOTE: HDPE PIPE TO BE SMOOTH WALL N-12 PIPE



LOT 2 STORM SEWER PROFILE

SCALE: HORZ. 1" = 20' ; VERT. 1" = 10'

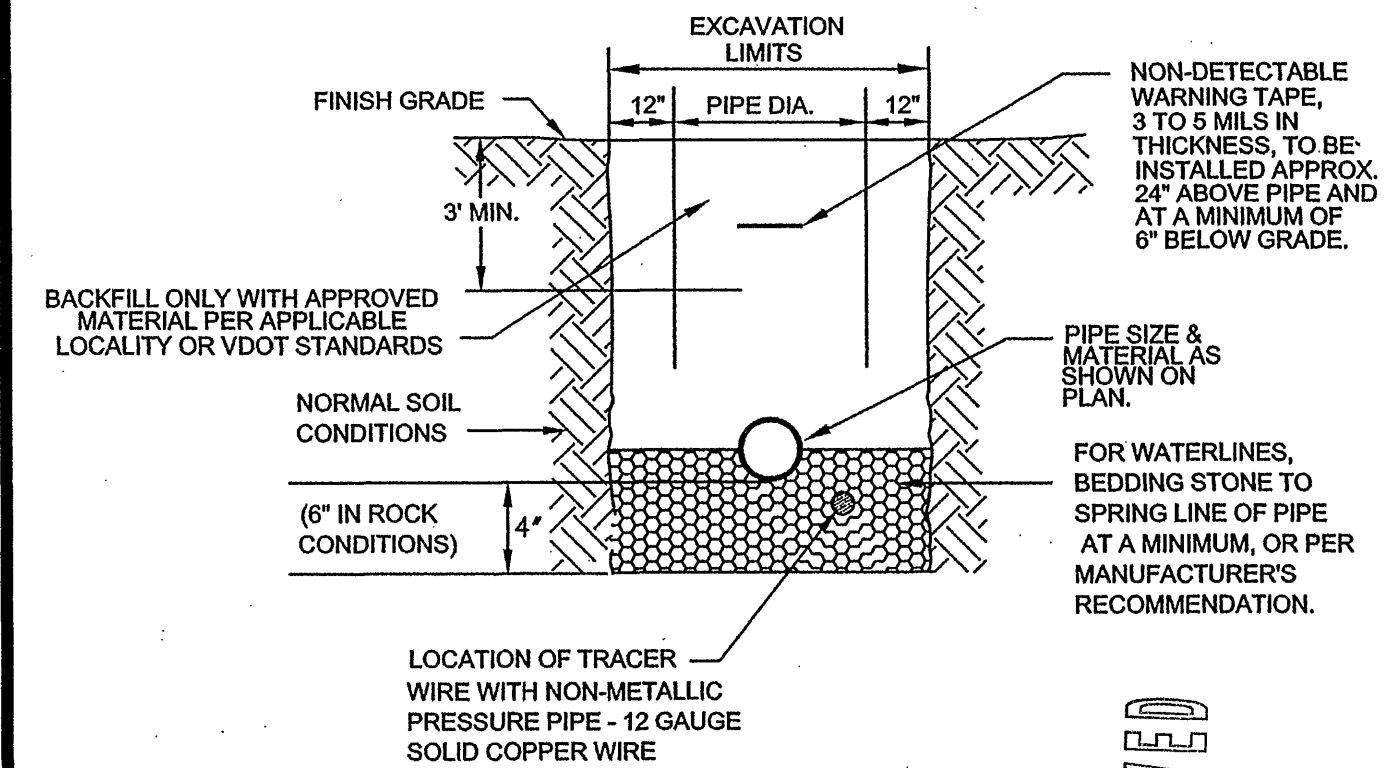
NOTE: HDPE PIPE TO BE SMOOTH WALL N-12 PIPE

DRAINAGE PIPE NOTES

- ALL DRAINAGE PIPE SHALL BE HDPE N-12 PRO LINK ST BY "ADS" OR AN APPROVED EQUIVALENT.
- ALL DRAINAGE PIPE BEDDING FOR HDPE SHALL FOLLOW THE FOLLOWING SPECIFICATIONS:
 - CLASS I & CLASS II BEDDING SHALL BE #26 OR #68 CRUSHED STONE
 - TRENCH WIDTH SHALL BE OUTSIDE PIPE DIAMETER PLUS 24"
 - COVER OVER PIPE SHALL BE A MINIMUM OF 2 FEET
 - STONE BACKFILL IS REQUIRED TO A DEPTH OF 12" ABOVE TOP OF PIPE
 - CONTRACTOR SHALL HAND COMPACT MATERIAL UNDER PIPE HAUNCHES
 - "NORMAL EARTH FOUNDATION" DETAILS APPLY FOR THE PIPE BACKFILL, BOTH WITH "NO PIPE PROJECTING ABOVE GROUND LINE"
 - SOIL MATERIAL PLACED ABOVE STONED BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 90% STANDARD PROCTOR.
- SHOULD THE DEVELOPER CHOOSE TO UTILIZE REINFORCED CONCRETE PIPE, MATERIAL SHALL BE CLASS III, O-RING PIPE
- THE CONTRACTOR SHALL PLACE IS-1, INLET SHAPING ON STRUCTURES NOTED. THE CONTRACTOR SHALL VERIFY INLET SHAPING ON SOME EXISTING STRUCTURES AND/OR INSTALL INLET SHAPING ON THOSE STRUCTURES NOTED.
- AN UP-FLOW FILTER WILL BE INSTALLED IN ST#4 AND ST#1. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ORDERING THE STRUCTURES AND UP-FLOW FILTER DEVICES. THE CONTRACTOR SHALL CONTACT ENGINEER FOR SHOP DRAWING REVIEW AND ORDERING.

NOTES:

- BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE.
- IN AREAS NOT SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS FROM BOTTOM OF TRENCH TO 1' ABOVE THE PIPE AND THE REMAINING SHALL BE PLACED IN 10" LIFTS AND SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
- BEDDING REQUIREMENTS FOR DUCTILE IRON WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
- ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING."

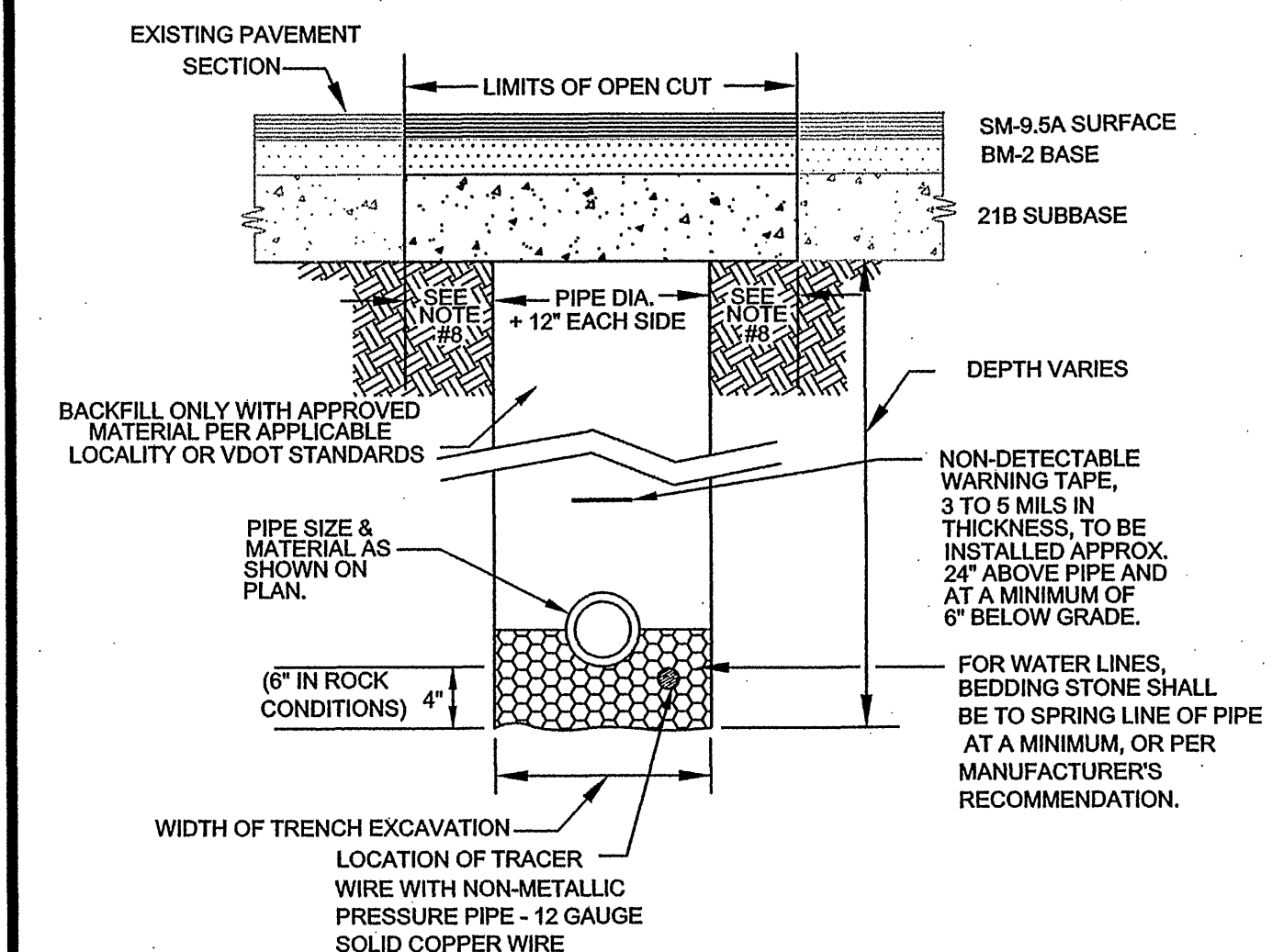


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE		
07/01/04		
03/01/06		

BEDDING AND BACKFILL OUTSIDE OF PAVED AREAS

W-24



NOTES:

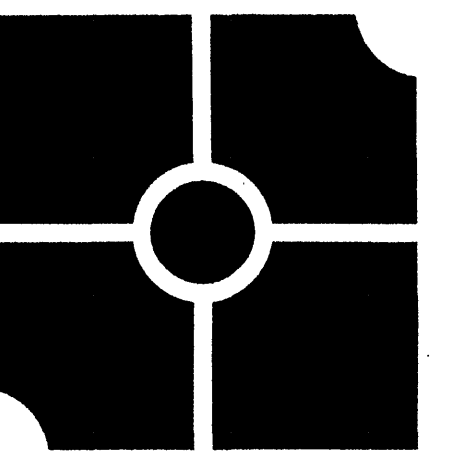
- BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- ALL PVC PIPE SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE.
- IN ROANOKE COUNTY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP COURSE OF 1.5" (MINIMUM) VDOT SM-9.5A, BASE COURSE OF 8" VDOT BM-2B, AND SUBBASE OF 10" VDOT 21B, OR AS REQUIRED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.
- ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY.
- PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS FROM VDOT AND/OR APPLICABLE LOCALITY.
- IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 698.
- BEDDING REQUIREMENTS FOR DUCTILE IRON WATER LINE ARE DEPENDENT ON MANUFACTURER'S BEDDING CRITERIA.
- BENCH CUT ON EACH SIDE OF PAVEMENT: CITY OF ROANOKE EQUALS 12"; VDOT RIGHT-OF-WAY EQUALS 6".
- ALL EXCAVATIONS SHALL COMPLY WITH OSHA TECHNICAL MANUAL, CHAPTER 2, TITLED "EXCAVATIONS: HAZARD RECOGNITION IN TRENCHING AND SHORING."

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS

REVISION DATE		
07/01/04		
03/01/06		

BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY

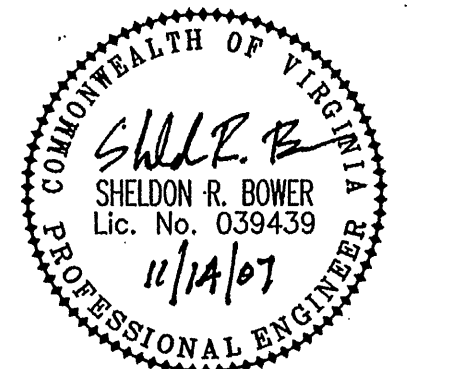
W-25



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DESIGN GROUP

816 Boulevard
Salem, Virginia 24153
Phone: 540-387-1153
Fax: 540-389-5767
www.parkerdg.com

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**Comprehensive Site Plan for
The Village at Tinker Creek-Phase II**
Prepared for Star City Developers
Hollins Magisterial District
Roanoke County, Virginia

REVISIONS:

Revisions per Roanoke County comments: 8-28-07
Revisions per Roanoke County comments: 10-15-07
Revisions per Roanoke County comments: 11-14-07

DESIGNED BY:

SRB

DRAWN BY:

AAS

CHECKED BY:

SRB

SCALE:

1"=20'

DATE:

July 20, 2007

SHEET TITLE:

Utility
Profiles
Seneca Drive

C10
10 OF 16
PROJECT NUMBER:
06-0402-04