

GENERAL NOTES:

1. CONTRACTOR SHALL REPLACE LINE FROM MH #12B-3190 USING PIPE BURSTING TECHNOLOGY TO MH #12B-3189. OPEN CUT CONSTRUCTION FROM MH #12B-3189 TO M H #12B-3183 IS NECESSARY.
2. EXISTING MANHOLE #12B-3189 TO BE ABANDONED. EXISTING MANHOLE HAS A 6" PIPE RUNNING THROUGH THE INTERIOR THAT IS ASSUMED TO BE A ROOF DRAIN. CONTRACTOR SHALL PROTECT PIPE DURING CONSTRUCTION UNLESS IT CAN BE ABANDONED. LOCATION OF THE PIPE OUTSIDE OF MANHOLE WAS NOT DETERMINED.
3. THE SEWER LINE FROM MH #12B-3183 SHALL BE REPLACED TO MANHOLE #12B-3182.
4. CONTRACTOR SHALL PROVIDE UNINTERRUPTED SERVICE TO WATER AND SEWER CUSTOMERS.
5. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR THE CHARACTER AND ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, STRUCTURES, OTHER FACILITIES, AND OBSTRUCTIONS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, CONTACT THE OWNERS/OPERATORS OF ALL UTILITIES AND ARRANGE FOR THE VERIFICATION AND MARKING OF UTILITY LOCATIONS BY SAID OWNERS/OPERATORS. THE CONTRACTOR SHALL ASSIST THE UTILITY OWNERS/OPERATORS BY EVERY MEANS POSSIBLE TO DETERMINE THE LOCATION OF UTILITIES. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ALL DISTURBANCE OF ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S FAILURE TO ARRANGE FOR THE LOCATION OF UTILITIES BY THE OWNERS/ OPERATORS OF THE UTILITIES. CONTACT MISS UTILITY 8-1-1.

TRAFFIC NOTES:

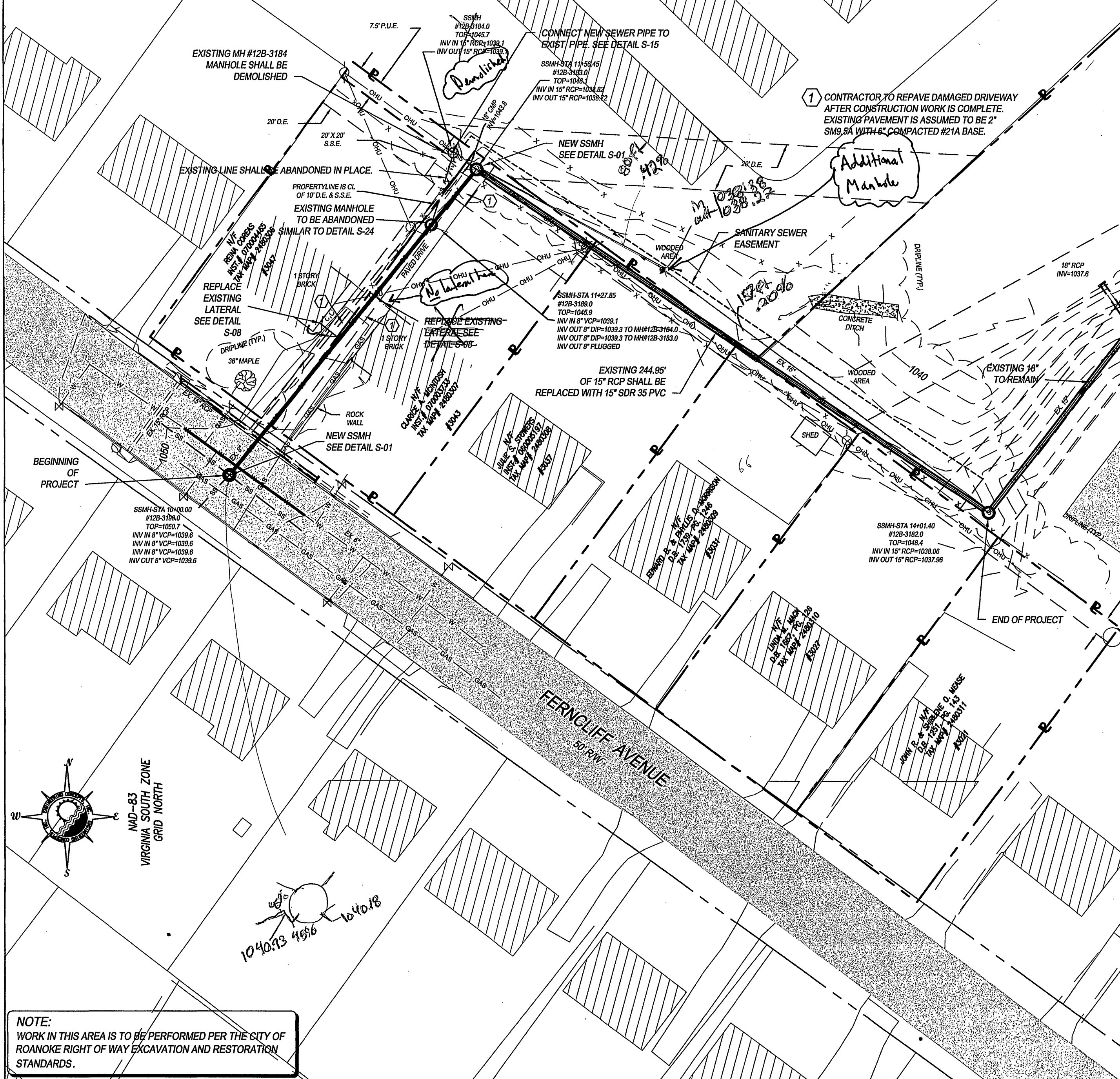
1. FERNCLIFF AVENUE MAY BE CLOSED TO THRU TRAFFIC DURING CONSTRUCTION ACTIVITIES IN THE RIGHT OF WAY. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF ROANOKE PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL SECURE THE REQUIRED PERMITS FROM ROANOKE CITY FOR ROAD CLOSURE AND PROVIDE ALL NECESSARY SIGNS, BARRICADES, AND CONTROLS.
3. NO OPEN CUTS SHALL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
4. THE USE OF STEEL PLATES CAN BE USED WITH PROPER SIGNAGE AND STRUCTURAL CAPACITIES.
5. ROAD CLOSURE SHALL BE LIMITED TO 9:00 A.M. - 4:00 P.M. MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.

Structure Name	Structure Details
MH #12B-3190.0 Manhole (0)	RIM = 1050.688 DEPTH = 11.1' Pipe - (8) (1) (1) INV IN = 1039.60
MH #12B-3183.0 Manhole (1)	RIM = 1046.106 DEPTH = 7.4' Pipe - (8) (1) (1) INV IN = 1038.82 Pipe - (7) (1) (1) INV OUT = 1038.72
MH #12B-3182.0 Manhole (2)	RIM = 1048.391 DEPTH = 10.4' Pipe - (7) (1) (1) INV IN = 1038.06 Pipe - (6) (1) (1) INV OUT = 1037.98

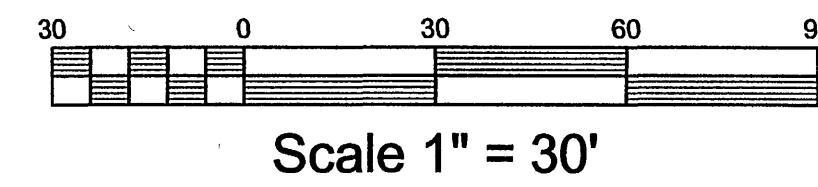
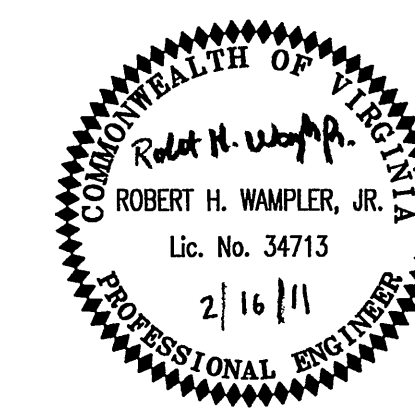
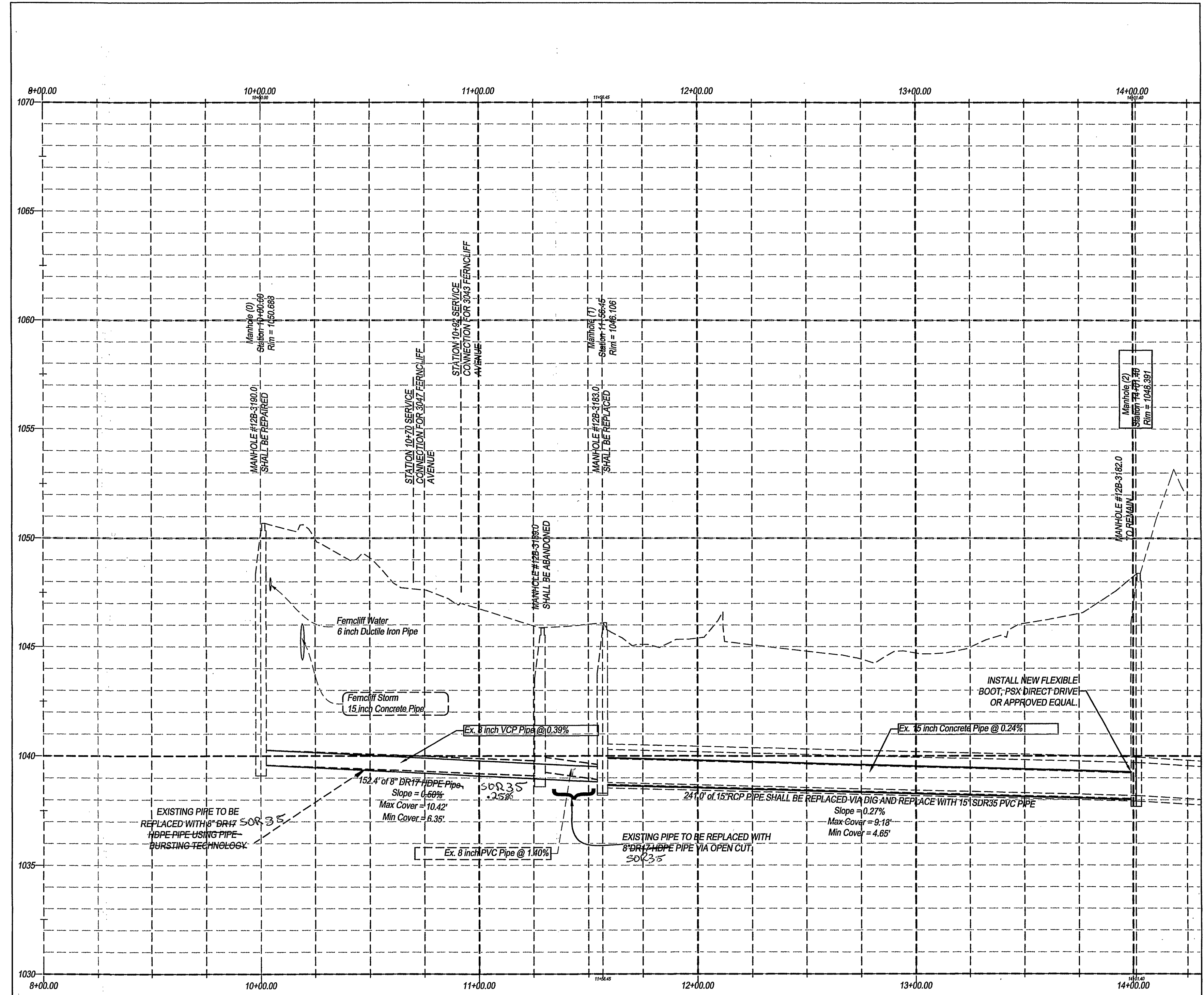
NOTES:

1. SEE SHEET 2 FOR BYPASS PUMPING NOTES.

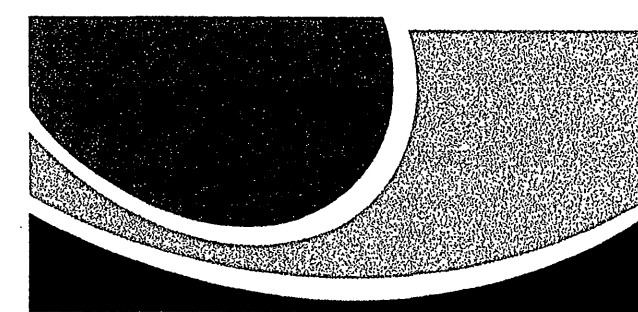
Pipe Table					
Pipe Name	Size	Length	Slope	Min Cover	Max Cover
Pipe - (7)	15"	245.0'	0.27%	4.65'	9.18'
Pipe - (8)	8"	156.4'	0.50%	6.35'	10.42'



NOTE:
WORK IN THIS AREA IS TO BE PERFORMED PER THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.



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**WESTERN VIRGINIA
WATER AUTHORITY**

Drawn	9TH ST. & FERNCLIFF AVE. SANITARY SEWER PROJECTS WESTERN VA. WATER AUTHORITY FERNCLIFF PLAN AND PROFILE	SCALE: 1"=30'
Designed		February 16, 2011
Checked		PROJECT: 09001
Approved		4