

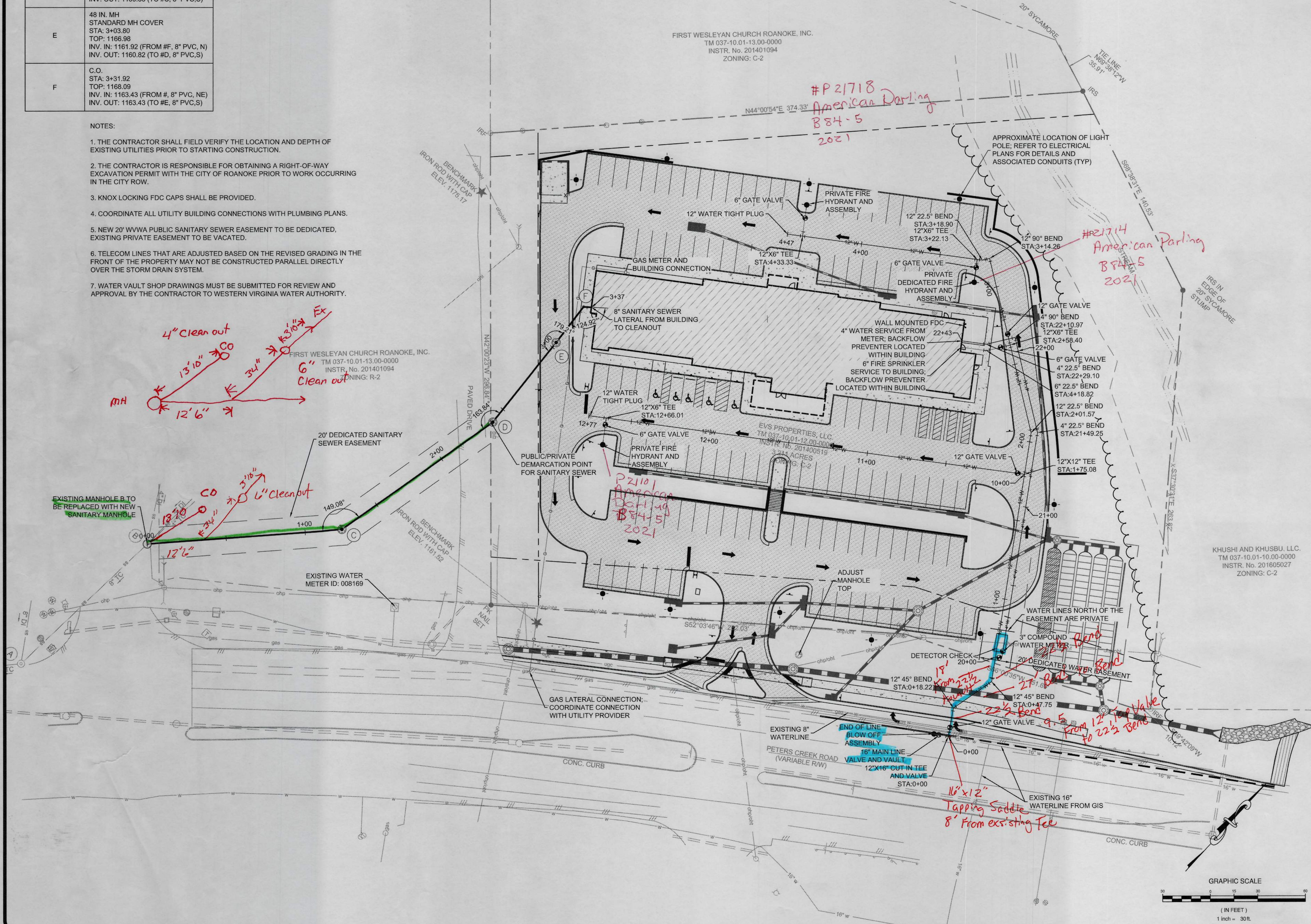
SANITARY STRUCTURE SCHEDULE	
STRC. NUMBER	STRC. DATA
C	48 IN. MH STANDARD MH COVER STA: 1+23.12 TOP: 1166.40 INV. IN: 1158.75 (FROM #D, 8" PVC, N) INV. OUT: 1158.65 (TO #B, 8" PVC, SW)
D	48 IN. MH STANDARD MH COVER STA: 2+39.70 TOP: 1166.73 INV. IN: 1159.43 (FROM #E, 8" PVC, N) INV. OUT: 1159.33 (TO #C, 8" PVC, S)
E	48 IN. MH STANDARD MH COVER STA: 3+03.80 TOP: 1166.98 INV. IN: 1161.92 (FROM #F, 8" PVC, N) INV. OUT: 1160.82 (TO #D, 8" PVC, S)
F	C.O. STA: 3+31.92 TOP: 1168.09 INV. IN: 1163.43 (FROM #, 8" PVC, NE) INV. OUT: 1163.43 (TO #E, 8" PVC, S)

SANITARY PIPE					
PIPE	SIZE	LENGTH	SLOPE	MATERIAL	
D-E	8"	64.09 LF	2.16%	PVC	PUBLIC
F-	8"	5.04 LF	17.24%	PVC	PUBLIC
E-F	8"	28.12 LF	5.37%	PVC	PRIVATE
B-C	8"	123.12 LF	0.50%	PVC	PRIVATE
C-D	8"	116.58 LF	0.50%	PVC	PRIVATE

SANITARY SEWER CALCULATIONS											
Avg Flow (GPD)	15,860	*Using Sewage Flows from VDH Table 3, page 80									
Peak Flow (GPD)	63,440	*Peak factor of 4									
STRUCTURE #	STRUCTURE #	INV OUT	INV IN	PIPE LENGTH (LF)	PIPE DIAMETER (IN)	SLOPE (ft/ft)	MATERIAL	n	CAPACITY (CFS)	CAPACITY (GPD)	VELOCITY FULL (ft/s)
BLDG	F	1164.3	1163.43	8.7	8	0.10000	PVC	0.01	4.97	3,209,592	14.23
F	E	1163.43	1161.92	28.12	8	0.05370	PVC	0.01	3.64	2,351,964	10.43
E	D	1160.82	1159.43	64.09	8	0.02169	PVC	0.01	2.31	1,494,728	6.63
D	C	1159.33	1158.75	116.58	8	0.00498	PVC	0.01	1.11	715,899	3.17
C	B	1158.65	1158.03	123.12	8	0.00504	PVC	0.01	1.11	720,247	3.19

NOTES:

1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A RIGHT-OF-WAY EXCAVATION PERMIT WITH THE CITY OF ROANOKE PRIOR TO WORK OCCURRING IN THE CITY ROW.
3. KNOX LOCKING FDC CAPS SHALL BE PROVIDED.
4. COORDINATE ALL UTILITY BUILDING CONNECTIONS WITH PLUMBING PLANS.
5. NEW 20" VVWA PUBLIC SANITARY SEWER EASEMENT TO BE DEDICATED, EXISTING PRIVATE EASEMENT TO BE VACATED.
6. TELECOM LINES THAT ARE ADJUSTED BASED ON THE REVISED GRADING IN THE FRONT OF THE PROPERTY MAY NOT BE CONSTRUCTED PARALLEL DIRECTLY OVER THE STORM DRAIN SYSTEM.
7. WATER VAULT SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CONTRACTOR TO WESTERN VIRGINIA WATER AUTHORITY.



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3rd Review

UTILITY PLAN

REVISIONS

DESIGNED BY: KMJ
DRAWN BY: DEP
CHECKED BY: CAH
SCALE: 1"=30'
DATE: MAY 24, 2021
PROJECT NUMBER:
20010271-010301

C700

New Facility for
WOODSPRING SUITES
3812 Peters Creek Road
Roanoke County, Virginia

SHEET
17
OF
35

APPROVED, 8/4/2021