

UTILITY NOTES:

1. G.C. SHALL COORDINATE THE EXACT SANITARY SEWER, WATER, AND STORM SEWER BUILDING TIE-IN LOCATIONS WITH THE ARCHITECTURAL PLANS.
2. ALL UTILITY SERVICE LATERALS OR LINES, INCLUDING ELECTRIC, SHALL BE INSTALLED UNDERGROUND PER SECTION 36-2-610. WATER & SEWER CONNECTIONS SHALL CONFORM TO WVWA UTILITY STANDARDS AND INTERNATIONAL BUILDING CODE.
3. THE G.C. SHALL COORDINATE TEMPORARY POWER FOR THE PROPOSED BUILDING AS REQ'D.
4. G.C. SHALL PROVIDE ALL REQUIRED COORDINATION, MATERIALS, AND INSTALLATION TIMING BETWEEN AEP, ROANOKE GAS, AND OTHER PROVIDERS.

GENERAL W.V.W.A. NOTES:

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST WVWA DESIGN AND CONSTRUCTION STANDARDS.
2. 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 BRIAN WHITENACK AT (540) 400-4079.
3. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE WESTERN VIRGINIA WATER AUTHORITY.
4. FIELD CORRECTIONS SHALL BE APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY PRIOR TO THE START OF CONSTRUCTION.
5. 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 WVWA STANDARDS SHALL BE ENFORCED.
6. 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.
7. REFER TO PLAN SET AND WVWA DETAILS FOR SPECIFIC CONSTRUCTION STANDARDS.
8. ALL PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE RESTORED BASED ON THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS.

FIRE NOTES

1. G.C. SHALL PROVIDE A 4400 SERIES OR ABOVE KNOX BOX AT THE MAIN ENTRY DOOR AND AT ELEVATORS PER THE FIRE MARSHALL'S OFFICE, CONTACT THE FIRE MARSHALL'S OFFICE AT 540-853-2795 FOR ORDERING INFORMATION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS ON SPECIFIC MOUNTING LOCATIONS, ETC.
2. THE PROPOSED BUILDING SHALL HAVE SPRINKLER SERVICE. G.C. SHALL BE RESPONSIBLE FOR PROVIDING A P.I.V., FIRE DEPARTMENT CONNECTION, KNOX BOXES, AND IN-GROUND WATER VAULT FOR THE DOMESTIC WATER METER, AND DOUBLE DETECTOR CHECK FOR THE FIRE SERVICE.
3. A FIRE HYDRANT SHALL BE LOCATED WITHIN 250' OF THE MOST REMOTE PART OF BUILDING. BUILDING A HAS MIXED OCCUPANCY USE GROUPS TO INCLUDE B, R-2, & A WITH TYPE II-A CONSTRUCTION. BUILDING B HAS MIXED OCCUPANCY USE GROUPS TO INCLUDE B, R-2, M, & A-3 WITH TYPE II-A CONSTRUCTION.
4. FLOW OF 2,500 GPM FROM THE ADJACENT FIRE HYDRANTS SHALL BE PROVIDED FOR THE SITE.
5. EACH FIRE DEPARTMENT CONNECTION (FDC) IS REQUIRED TO HAVE A KNOX BOX LOOKING CAP INSTALLED WITH SINGLE 5" STORZ COUPLING AND A 30' ELBOW. PLEASE CALL THE NUMBER LISTED ABOVE IN NOTE #1, OR VISIT WWW.KNOXBOX.COM FOR ORDERING INFORMATION.

STORM SCHEDULE											
STR#	TYPE	NOSE	TOP ELEV.	HEIGHT	LENGTH	DIAMETER	MATERIAL	SLOPE	INV. IN	INV. OUT	COMMENTS
1	DI-1		917.55	2.75							IS-1
2					47.53	15"	CL III RCP	0.63%	914.80	914.50	
3	DI-1		917.62	3.22							IS-1
4					71.29	15"	CL III RCP	1.12%	914.40	913.60	
5	48" MH-2		917.22	3.72							IS-1
6					100.01	15"	CL III RCP	0.83%	913.50	912.67	
7	DI-1		918.00	2.95							IS-1
8					51.19	15"	CL III RCP	0.59%	915.05	914.75	
9	DI-1		917.45	2.80							IS-1
10					60.54	15"	CL III RCP	0.48%	914.65	914.36	
17	DI-48	TYPE B	917.91		6.00						IS-1
18	DI-48	TYPE B	917.31		6.00						IS-1
J	48" MH-2		916.67								EX. MANHOLE
S	48" MH-2		918.00								NEW. MANHOLE
T	48" MH-2		917.82								NEW. MANHOLE
V	48" MH-2		917.52								NEW. MANHOLE
W	48" MH-2		917.50								NEW. MANHOLE
Y	DI-3B	TYPE B	917.74		6.00						NEW. CURB INLET, IS-1

SANITARY SEWER SCHEDULE:

- (A) 8" S.S. CO. (W/TRAFFIC BEARING LID) - PUBLIC
TOP=916.70
INV. AT BLDG=913.71
INV. IN: 913.41
INV. OUT: 913.31
- (A) S.S. C.O. -PUBLIC
TOP=917.15
INV. AT BLDG.=912.5
- (A)-(EX) 9 LF OF 8" SDR-26 PVC AT 10.3%
INV. OUT INTO EX. 24" MAIN: 912.38
(GC SHALL PROVIDE AN INSERT-A-TEE AT CONNECTION TO MAIN)
S.S. MANHOLE
TOP=916.83
INV. IN=912.24
INV. OUT=912.14
- (B) S.S. MANHOLE
TOP=916.83
INV. IN=912.24
INV. OUT=912.14
- (B)-(EX) 19 LF OF 8" SDR-26 PVC AT 2.08%
- (EX) EX. S.S. M.H.
TOP=916.34
NEW INV. IN=911.74
EX. INV. OUT=911.64

- NOTES:
1. G.C. TO CONFIRM & COORDINATE THE BUILDING TIE-IN LOCATION AND ELEVATION WITH M.E.P. AND ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OF LATERAL.
 2. G.C. TO CONFIRM THE TIE-IN LOCATION AND ELEVATION TO THE EXISTING MANHOLE PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 3. G.C. TO CORE DRILL THE EXISTING MANHOLE '01' AND PROVIDE FLEXIBLE BOOT CONNECTION FOR THE PROPOSED SEWER CONNECTION.
 4. G.C. TO ENSURE GREATER THAN 90 DEGREE ANGLE BETWEEN THE PROPOSED 8" S.S. MAIN & EXISTING 24" S.S. MAIN AT TIE IN AT EX. S.S. M.H. '01'

FIRE HYDRANT FLOWS:

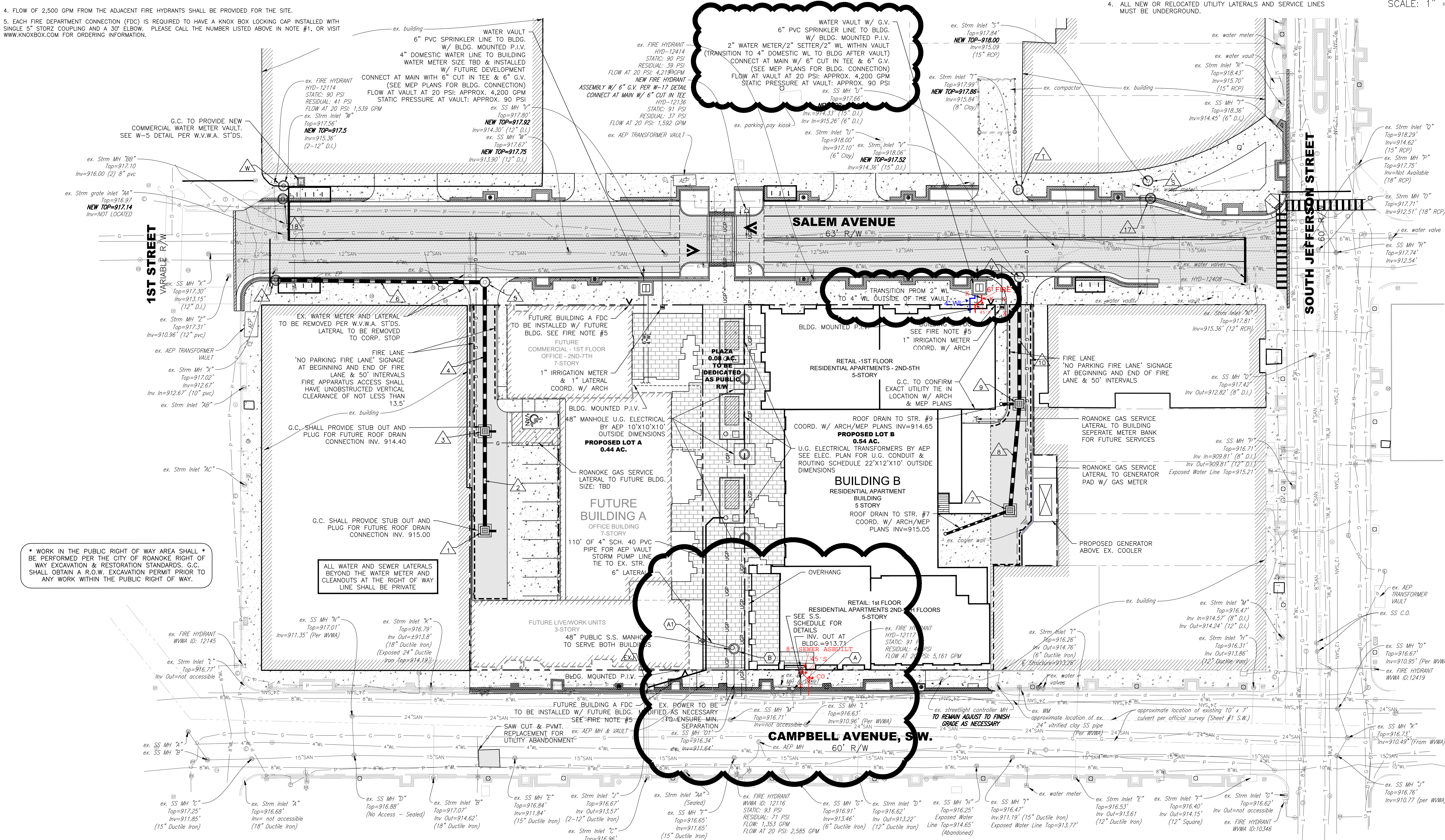
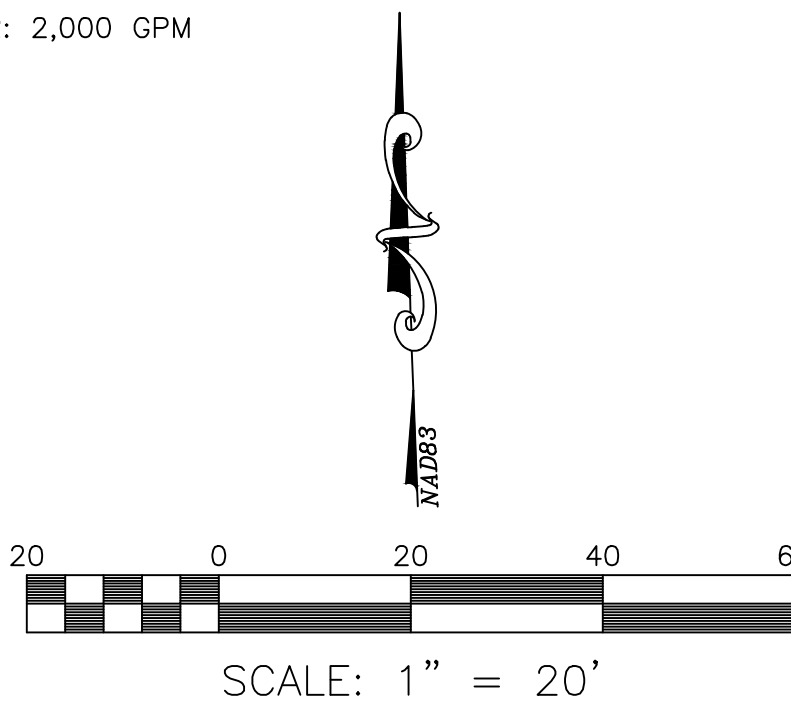
- HYD-12114
STATIC: 90 PSI
RESIDUAL: 41 PSI
FLOW AT 20 PSI: 1,539 GPM
FLOW TEST DATE: 9/15/2021 FLOWED BY WVWA
- HYD-12117
STATIC: 91 PSI
RESIDUAL: 46 PSI
FLOW AT 20 PSI: 5,161 GPM
FLOW TEST DATE: 9/15/2021 FLOWED BY WVWA
- HYD-12136
STATIC: 91 PSI
RESIDUAL: 37 PSI
FLOW AT 20 PSI: 1,692 GPM
FLOW TEST DATE: 9/15/2021 FLOWED BY WVWA
- HYD-12414
STATIC: 90 PSI
RESIDUAL: 39 PSI
FLOW AT 20 PSI: 4,219 GPM
FLOW TEST DATE: 9/15/2019 FLOWED BY WVWA

FIRE FLOW REQUIREMENTS BY LOCALITY

1. USE GROUP A, B, E GREATER THAN 2 STORIES: 2,500 GPM
2. USE GROUP R-1, R-2, R-3 AND R-4 WITH 3 STORIES OR GREATER: 2,000 GPM

NOTE:

1. EXISTING STRUCTURES THAT ARE TO BE RESET ARE DAMAGED DURING CONSTRUCTION OR FOUND IN DISREPAIR SHALL BE REPLACED WITH NEW APPROPRIATE STRUCTURES.
2. ANY EXISTING WATER OR SEWER CONNECTIONS OR OTHER WVWA ASSETS SERVING THIS PROPERTY NOT UTILIZED FOR THIS DEVELOPMENT SHALL BE ABANDONED AT THE MAIN BY THE DEVELOPER PER DETAILS ON SHEET C13.
3. NO PLANTINGS OR ERECTIONS SHALL BE MADE WITHIN A FOUR-FOOT (4') RADIUS OF ANY FIRE HYDRANT, OR AT ANY LOCATION THAT WOULD RESTRICT ACCESS TO THE FIRE HYDRANT FROM THE STREET. THE GROUND SURFACE WITHIN THE SAME RADIUS SHALL BE LEVEL.
4. ALL NEW OR RELOCATED UTILITY LATERALS AND SERVICE LINES MUST BE UNDERGROUND.



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Roanoke, VA 24018
540.772.9580

PRELIMINARY

The improvements were installed in substantial conformance with the approved plan set with applicable construction specifics noted within the subject contractor mark-up Jerry "Jay" Bush- Plumbing and More with JB

CAMPBELL COURT RESIDENTIAL BUILDING

CAMPBELL AVE SW / SALEM AVE SW

CITY OF ROANOKE, VIRGINIA

DRAWN BY SMD
DESIGNED BY BTC
CHECKED BY BTC
DATE 5/8/2024 - F.R.#2
SCALE 1" = 20'
REVISIONS

SITE WATER, FIRE & SEWER AS-BUILTS
6-4-24

C4
PROJECT NO. 03190021.00