NOTES:
1. THIS TOPOGRAPHIC BASED ON A CURRENT FIELD SURVEY DATED SEPTEMBER 2019.

2. HORIZONTAL CONTROL: VIRGINIA STATE PLANE (SOUTH ZONE) (NAD83, NSRS 2011, US FT)
VERTICAL CONTROL: NAVD88
HORIZONTAL AND VERTICAL CONTROL ESTABLISHED BY GPS OBSERVATIONS AND COMPUTED USING THE KEYNETGPS VIRTUAL REFERENCE STATION NETWORK(VRS). GRID COORDINATES WERE HELD ON CONTROL POINT NO. 2.
N: 3618543.972 E: 11062997.897 ELEV: 927.01

COMBINED GRID FACTOR = 0.999908178, DISTANCES AND COORDINATES ARE HORIZONTAL GROUND, UNLESS OTHERWISE NOTED. NORTH ARROW IS GRID NORTH.

NGS MONUMENT DF3611 PUBLISHED HORIZONTAL HELD.
N: 3616761.13 E: 11061644.22 ELEV: 969.6

CONTOUR INTERVAL = 1 FEET

3. LOCATIONS OF UTILITIES SHOWN ON THIS SURVEY WERE DETERMINED BY OBSERVED EVIDENCE, LOCATION OF ABOVE GROUND UTILITY APPURTENANCES, AND UTILITY MARKINGS (PAINT, ETC.) PROVIDED BY MISS UTILITY OF VIRGINIA (TICKET #A924900434). UNDERGROUND UTILITIES NOT SHOWN, MAY EXIST. STORM SEWER AND SANITARY SEWER DATA HAS BEEN COLLECTED FROM THE RIM OF THE MANHOLE WITHOUT ENTERING THE STRUCTURE. PIPE SIZES AND TYPES SHOULD BE CONSIDERED APPROXIMATE AND BE FIELD VERIFIED IF CRITICAL.

4. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT THEREFORE NECESSARILY INDICATE ALL ENCUMBRANCES ON THE PROPERTY.

SANITARY SEWER SYSTEM

(EX. A) (A) SMH TOP = 935.28 PUMP STATION
TOP OF UNKNOWN PIPE SIZE & MATERIAL = 913.90 FR BLDG
4" DIP IN = 931.76 (B)
4" DIP IN = 931.41 (C)
8" DIP OUT= 925.02 (ABS) POSSIBLE CONNECTION TO (F)

(EX. B) (B) MH TOP = 935.20 (VALVE INSIDE)
LID ON MH SAYS STORM SEWER, HOWEVER ITS BELIEVED TO BE A SANITARY SEWER MH WITH VALVE INSIDE AND PUMPING SEWER TO POSSIBLE CONNECTION TO (D).

(EX. C) (C) MH TOP = 935.25 (VALVE INSIDE)
LID ON MH SAYS STORM SEWER, HOWEVER ITS BELIEVED TO BE A SANITARY SEWER MH WITH VALVE INSIDE AND PUMPING SEWER TO POSSIBLE CONNECTION TO (D).

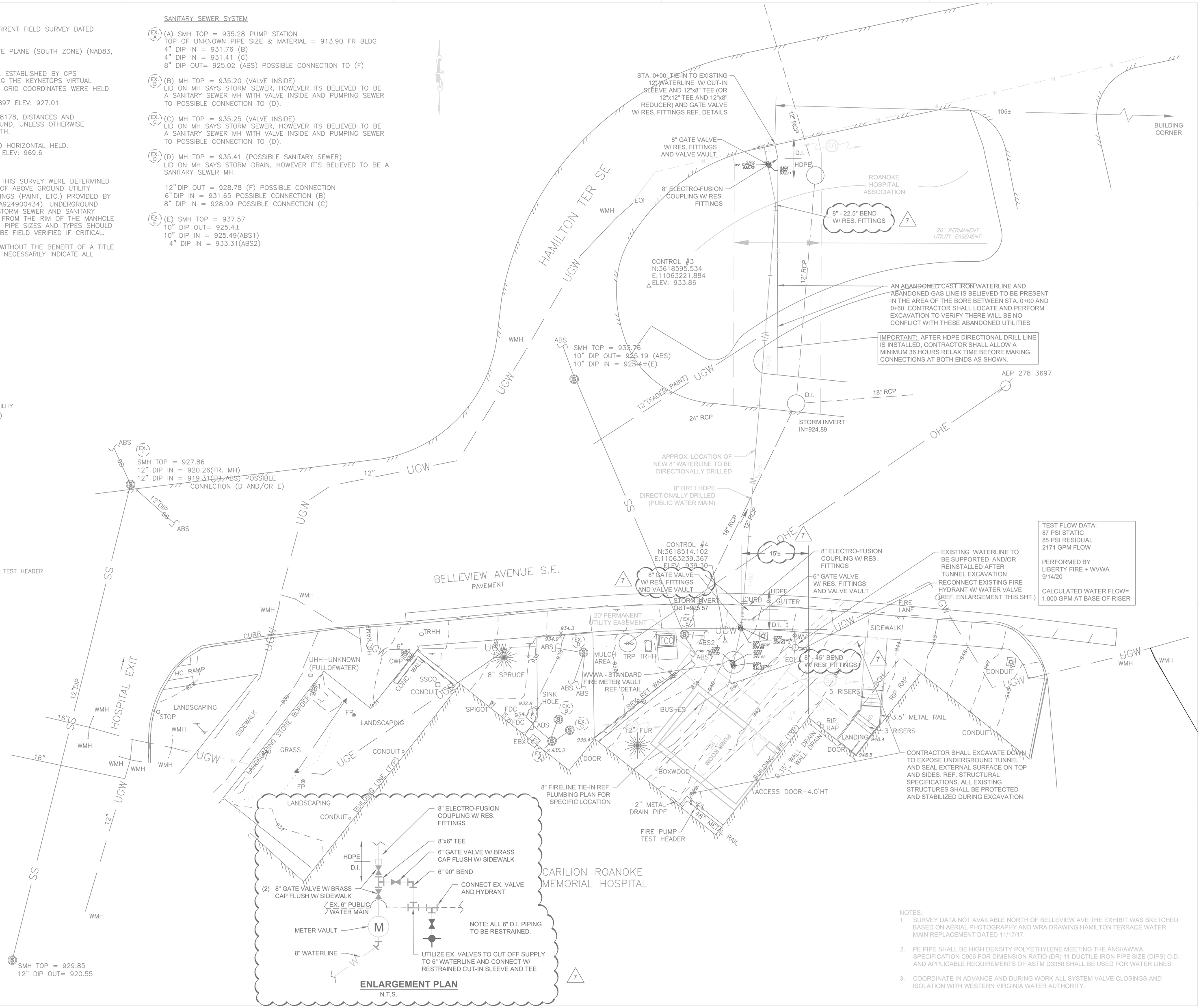
(EX. D) (D) MH TOP = 935.41 (POSSIBLE SANITARY SEWER)
LID ON MH SAYS STORM DRAIN, HOWEVER IT'S BELIEVED TO BE A SANITARY SEWER MH.

12" DIP OUT = 928.78 (F) POSSIBLE CONNECTION
6" DIP IN = 931.65 POSSIBLE CONNECTION (B)
8" DIP IN = 928.99 POSSIBLE CONNECTION (C)

(EX. E) (E) SMH TOP = 937.57
10" DIP OUT= 925.4±
10" DIP IN = 925.49(ABS1)
4" DIP IN = 933.31(ABS2)

LEGEND:

- LIGHT POLE
- OHE–OVERHEAD UTILITY
- UGE–UNDERGROUND ELECTRIC
- UGW–UNDERGROUND WATER
- ROAD SIGN
- SMH–SANITARY SEWER MAHHOLE
- SS–SANITARY SEWER
- DIP–DUCTILE IRON PIPE
- ABS–APPROX. LOCATION OF U/G UTILITY (ORIGIN/DESTINATION UNKNOWN)
- HYDRANT
- WMH–WATER MANHOLE
- WV–WATER VALVE
- SSCO–SANITARY SEWER CLEANOUT
- FDC–FIRE DEPARTMENT CONNECTION
- SPIGOT
- TRHH–TRAFFIC HAND HOLE
- CWP–CROSSWALK SIGNAL POLE
- UHH–UTILITY HAND HOLE
- TRP–TRAFFIC POLE
- EBX–ELECTRIC BOX
- ELECTRIC METER
- TCC–TRAFFIC CONTROL CABINET
- GROUND LIGHT
- FP=FLAG POLE
- EOI–END OF INVESTIGATION
- BOH–BUILDING OVERHANG
- AEP–AMERICAN ELECTRIC POWER
- QUICK CONNECTION FOR FIRE PUMP TEST HEADER



TEST FLOW DATA:
87 PSI STATIC
85 PSI RESIDUAL
2171 GPM FLOW

PERFORMED BY
LIBERTY FIRE + WVWA
9/14/20

CALCULATED WATER FLOW=
1,000 GPM AT BASE OF RISER

NOTES:
1. SURVEY DATA NOT AVAILABLE NORTH OF BELLEVIEW AVE THE EXHIBIT WAS SKETCHED BASED ON AERIAL PHOTOGRAPHY AND WRA DRAWING HAMILTON TERRACE WATER MAIN REPLACEMENT DATED 11/17/17.

2. PE PIPE SHALL BE HIGH DENSITY POLYETHYLENE MEETING THE ANSI/AWWA SPECIFICATION C906 FOR DIMENSION RATIO (DR) 11 DUCTILE IRON PIPE SIZE (DIPS) O.D. AND APPLICABLE REQUIREMENTS OF ASTM D3350 SHALL BE USED FOR WATER LINES.

3. COORDINATE IN ADVANCE AND DURING WORK ALL SYSTEM VALVE CLOSINGS AND ISOLATION WITH WESTERN VIRGINIA WATER AUTHORITY.

Dewberry

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CARILION CLINIC

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FIRE PUMP REPLACEMENT AND RELOCATION
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ROANOKE, VA 24014

SEAL
COMMONWEALTH OF VIRGINIA
R. SCOTT EHRHARDT
Lic. No. 019303
PROFESSIONAL ENGINEER

KEY PLAN

RECORD DRAWING
3/16/21
THESE DRAWINGS REFLECT WORK AS RECORDED BY OTHERS AT THE TIME OF CONSTRUCTION.

SCALE AS SHOWN

No.	DATE	BY	Description
7	3/16/21	MWC	REVISION RECORD DRAWING
6	12/2/20	MWC	REVISION PER WVWA
5	10/28/20	MWC	REVISION PER WVWA
4	10/15/20	MWC	REVISION #4 - FIRE PUMP ROOM RELOCATION

REVISIONS

DRAWN BY	MWC
APPROVED BY	SRE
CHECKED BY	LAB
DATE	11/4/20

TITLE
WATERLINE PLAN VIEW

PROJECT NO. 50115290

C-101

1/22/2016 9:07:15 AM
V:\GIS\KIP\SCANS\2022-CARILION\HOSPITAL\CAD ASBUILT FIRE PUMP STATION.DWG