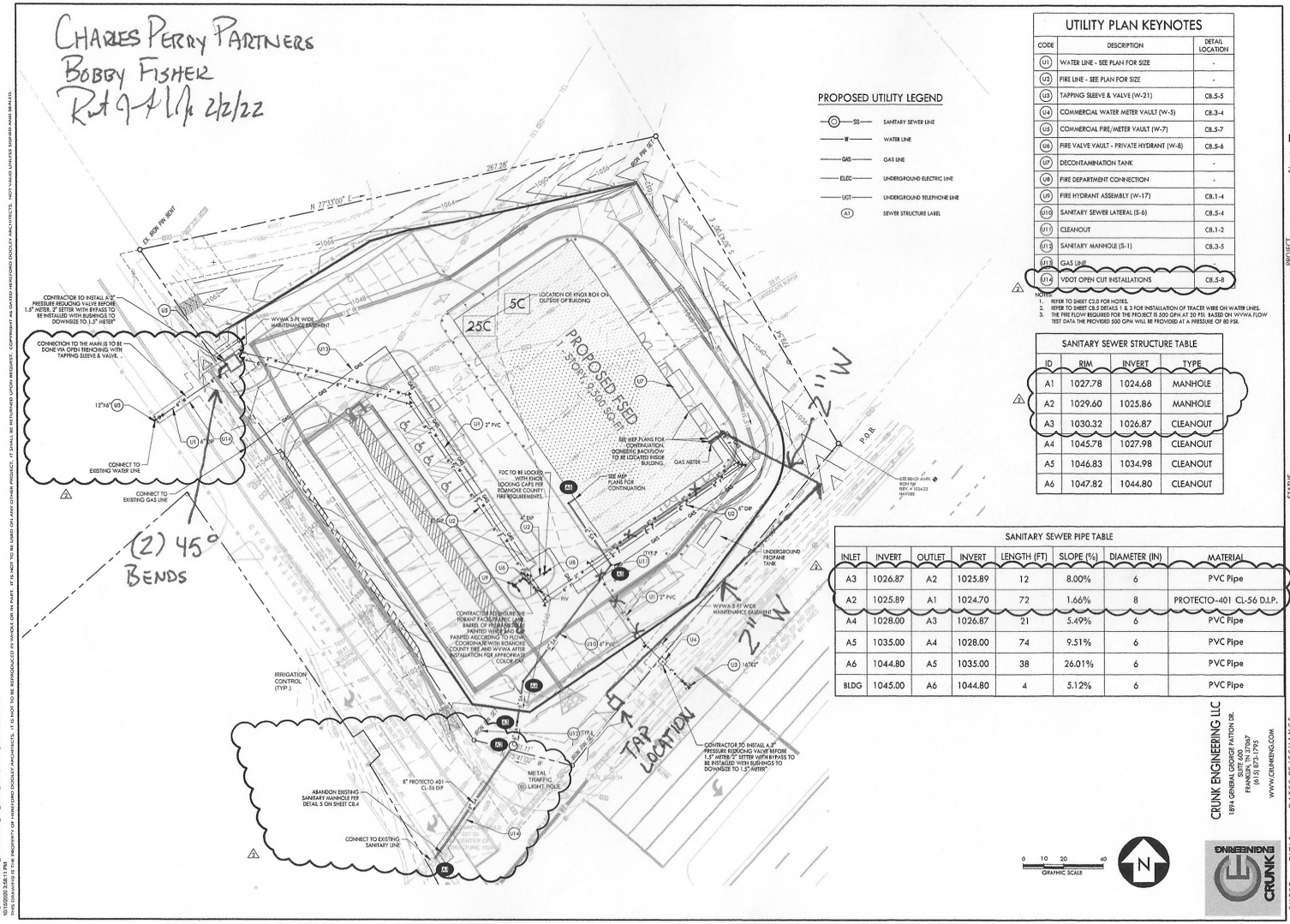
CHARLES PERRY PARTNERS
BOBBY FISHER
Rut 9-4 1/4 2/2/22



PROPOSED UTILITY LEGEND

—SS—	SANITARY SEWER LINE
—W—	WATER LINE
—GAS—	GAS LINE
—ELEC—	UNDERGROUND ELECTRIC LINE
—UGT—	UNDERGROUND TELEPHONE LINE
A1	SEWER STRUCTURE LABEL

UTILITY PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
U1	WATER LINE - SEE PLAN FOR SIZE	-
U2	FIRE LINE - SEE PLAN FOR SIZE	-
U3	TAPPING SLEEVE & VALVE (W-21)	C8.5-5
U4	COMMERCIAL WATER METER VAULT (W-5)	C8.3-4
U5	COMMERCIAL FIRE/METER VAULT (W-7)	C8.5-7
U6	FIRE VALVE VAULT - PRIVATE HYDRANT (W-8)	C8.5-6
U7	DECONTAMINATION TANK	-
U8	FIRE DEPARTMENT CONNECTION	-
U9	FIRE HYDRANT ASSEMBLY (W-17)	C8.1-4
U10	SANITARY SEWER LATERAL (S-6)	C8.5-4
U11	CLEANOUT	C8.1-2
U12	SANITARY MANHOLE (S-1)	C8.3-5
U13	GAS LINE	-
U14	VDOT OPEN CUT INSTALLATIONS	C8.5-8

NOTES:
1. REFER TO SHEET C2.0 FOR NOTES.
2. REFER TO SHEET C8.5 DETAILS 1 & 3 FOR INSTALLATION OF TRACER WIRE ON WATER LINES.
3. THE FIRE FLOW REQUIRED FOR THE PROJECT IS 500 GPM AT 20 PSI. BASED ON WVWA FLOW TEST DATA THE PROVIDED 500 GPM WILL BE PROVIDED AT A PRESSURE OF 80 PSI.

SANITARY SEWER STRUCTURE TABLE

ID	RIM	INVERT	TYPE
A1	1027.78	1024.68	MANHOLE
A2	1029.60	1025.86	MANHOLE
A3	1030.32	1026.87	CLEANOUT
A4	1045.78	1027.98	CLEANOUT
A5	1046.83	1034.98	CLEANOUT
A6	1047.82	1044.80	CLEANOUT

SANITARY SEWER PIPE TABLE

INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	DIAMETER (IN)	MATERIAL
A3	1026.87	A2	1025.89	12	8.00%	6	PVC Pipe
A2	1025.89	A1	1024.70	72	1.66%	8	PROTECTO-401 CL-56 D.I.P.
A4	1028.00	A3	1026.87	21	5.49%	6	PVC Pipe
A5	1035.00	A4	1028.00	74	9.51%	6	PVC Pipe
A6	1044.80	A5	1035.00	38	26.01%	6	PVC Pipe
BLDG	1045.00	A6	1044.80	4	5.12%	6	PVC Pipe

0 10 20 40
GRAPHIC SCALE

N

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PROJECT # 220014.00
CLIENT PROJECT # 3463000002

BLUE HILLS FSER
1423 WEST BURTON ROAD
ROANOKE, VIRGINIA 24012
LEWIS GALE MEDICAL CENTER
1500 ELECTRIC ROAD, SALEM, VIRGINIA 24153

STATUS: CONSTRUCTION DOCUMENTS

COMMONWEALTH OF VIRGINIA
ADAM W. CRUNK
Lic. No. 0402054858
10/12/21
PROFESSIONAL ENGINEER

DATES OF ISSUANCE
11/06/2020
1 REV 1_07-30-2021
2 REV 2_10-12-2021

TITLE: UTILITY PLAN

SHEET: C7.0

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