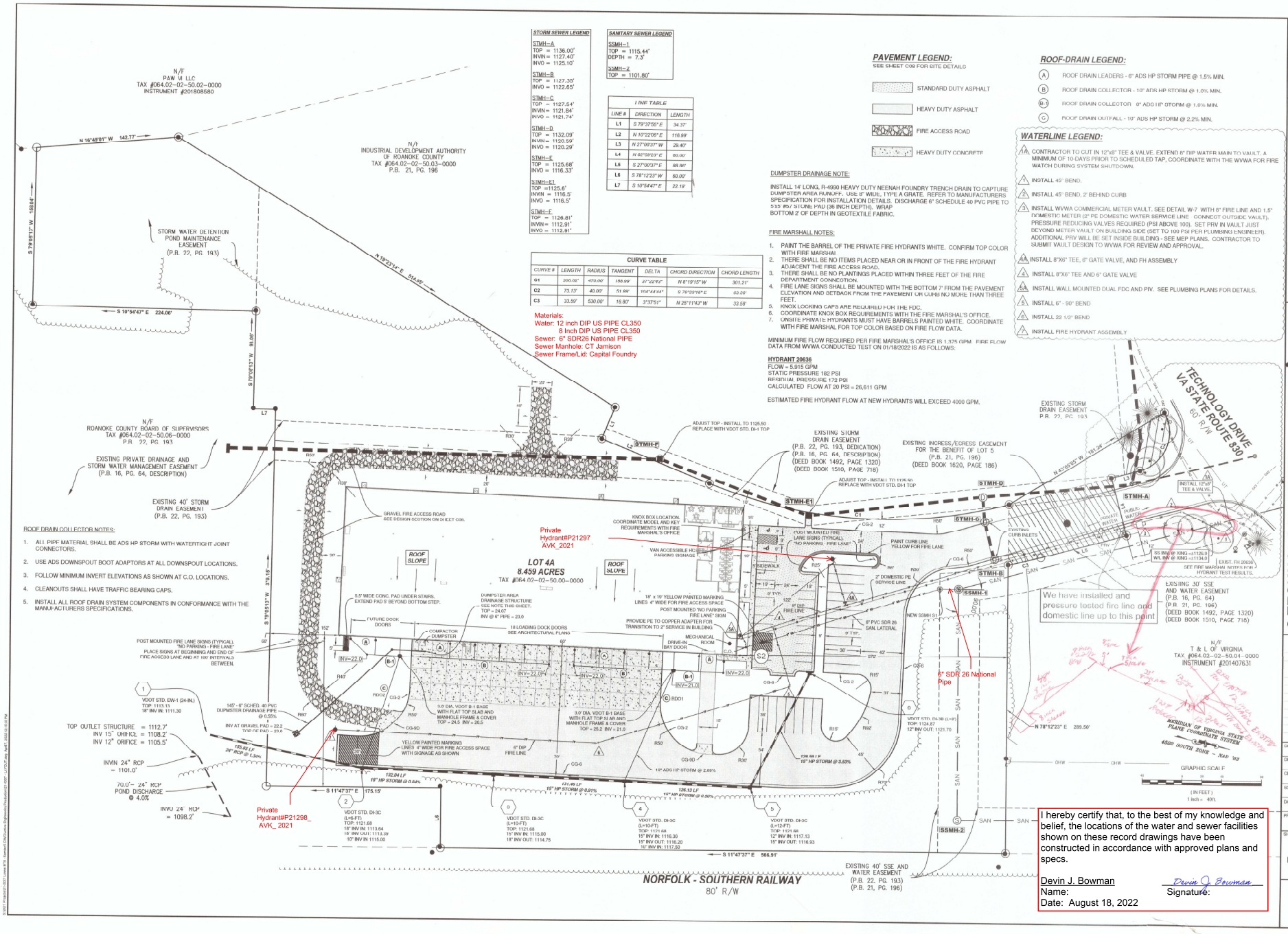

STORM SEWER LEGEND
STMH-A TOP = 1136.00' INVIN = 1127.40' INVO = 1125.10'
STMH-B TOP = 1127.35' INVO = 1122.65'
STMH-C TOP = 1127.54' INVIN = 1121.84' INVO = 1121.74'
STMH-D TOP = 1132.09' INVIN = 1120.59' INVO = 1120.29'
STMH-E TOP = 1125.68' INVO = 1116.33'
STMH-E1 TOP =1125.6' INVIN = 1116.5' INVO = 1116.5'
STMH-F TOP = 1126.61' INVIN = 1112.91' INVO = 1112.91'

SANITARY SEWER LEGEND
SSMH-1 TOP = 1115.44' DEPTH = 7.3'
SSMH-2 TOP = 1101.80'

LINE TABLE		
LINE #	DIRECTION	LENGTH
L1	S 79°37'55" E	34.37'
L2	N 10°22'05" E	116.99'
L3	N 27°00'37" W	29.40'
L4	N 62°09'23" E	60.00'
L5	S 27°00'37" E	88.86'
L6	S 78°12'23" W	60.00'
L7	S 10°54'47" E	22.19'

CURVE TABLE						
CURVE #	LENGTH	RADIUS	TANGENT	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	206.02'	470.00'	105.99'	31°22'43"	N 8°19'15" W	301.21'
C2	73.13'	40.00'	51.89'	104°44'44"	S 70°23'16" E	63.36'
C3	33.59'	530.00'	16.80'	3°37'51"	N 25°11'43" W	33.58'

Materials:
Water: 12 inch DIP US PIPE CL350
8 Inch DIP US PIPE CL350
Sewer: 6" SDR26 National PIPE
Sewer Manhole: CT Jamison
Sewer Frame/Lid: Capital Foundry

DUMPSTER DRAINAGE NOTE:

INSTALL 14' LONG, R-4990 HEAVY DUTY NEENAH FOUNDRY TRENCH DRAIN TO CAPTURE DUMPSTER AREA RUNOFF. USE 8" WIDE, TYPE A GRATE. REFER TO MANUFACTURERS SPECIFICATION FOR INSTALLATION DETAILS. DISCHARGE 6" SCHEDULE 40 PVC PIPE TO 530 lbs / SQUARE YAD (36 INCH DEPTH). WRAP BOTTOM 2' OF DEPTH IN GEOTEXTILE FABRIC.

FIRE MARSHALL NOTES:

1. PAINT THE BARREL OF THE PRIVATE FIRE HYDRANTS WHITE. CONFIRM TOP COLOR WITH FIRE MARSHAL
2. THERE SHALL BE NO ITEMS PLACED NEAR OR IN FRONT OF THE FIRE HYDRANT ADJACENT THE FIRE ACCESS ROAD.
3. THERE SHALL BE NO PLANTINGS PLACED WITHIN THREE FEET OF THE FIRE DEPARTMENT CONNECTION.
4. FIRE LANE SIGNS SHALL BE MOUNTED WITH THE BOTTOM 7' FROM THE PAVEMENT ELEVATION AND SETBACK FROM THE PAVEMENT OR CURB NO MORE THAN THREE FEET.
5. KNOX LOCKING CAPS ARE REQUIRED FOR THE FDC.
6. COORDINATE KNOX BOX REQUIREMENTS WITH THE FIRE MARSHAL'S OFFICE.
7. ONSITE PRIVATE HYDRANTS MUST HAVE BARRELS PAINTED WHITE. COORDINATE WITH FIRE MARSHAL FOR TOP COLOR BASED ON FIRE FLOW DATA.

MINIMUM FIRE FLOW REQUIRED PER FIRE MARSHAL'S OFFICE IS 1,375 GPM. FIRE FLOW DATA FROM WVWA CONDUCTED TEST ON 01/18/2022 IS AS FOLLOWS:

HYDRANT 20636
FLOW = 5,915 GPM
STATIC PRESSURE 182 PSI
RESIDUAL PRESSURE 172 PSI
CALCULATED FLOW AT 20 PSI = 26,611 GPM

ESTIMATED FIRE HYDRANT FLOW AT NEW HYDRANTS WILL EXCEED 4000 GPM.

ROOF DRAIN COLLECTOR NOTES:

1. ALL PIPE MATERIAL SHALL BE ADS HP STORM WITH WATERTIGHT JOINT CONNECTORS.
2. USE ADS DOWNSPOUT BOOT ADAPTORS AT ALL DOWNSPOUT LOCATIONS.
3. FOLLOW MINIMUM INVERT ELEVATIONS AS SHOWN AT C.O. LOCATIONS.
4. CLEANOUTS SHALL HAVE TRAFFIC BEARING CAPS.
5. INSTALL ALL ROOF DRAIN SYSTEM COMPONENTS IN CONFORMANCE WITH THE MANUFACTURERS SPECIFICATIONS.

PAVEMENT LEGEND:

SEE SHEET C08 FOR SITE DETAILS

- STANDARD DUTY ASPHALT
- HEAVY DUTY ASPHALT
- FIRE ACCESS ROAD
- HEAVY DUTY CONCRETE

ROOF-DRAIN LEGEND:

- (A) ROOF DRAIN LEADERS - 6" ADS HP STORM PIPE @ 1.5% MIN.
- (B) ROOF DRAIN COLLECTOR - 10" ADS HP STORM @ 1.0% MIN.
- (B-1) ROOF DRAIN COLLECTOR 8" ADS HP STORM @ 1.0% MIN.
- (C) ROOF DRAIN OUTFALL - 10" ADS HP STORM @ 2.2% MIN.

WATERLINE LEGEND:

- 1A CONTRACTOR TO CUT IN 12"x8" TEE & VALVE. EXTEND 8" DIP WATER MAIN TO VAULT. A MINIMUM OF 10 DAYS PRIOR TO SCHEDULED TAP, COORDINATE WITH THE WVWA FOR FIRE WATCH DURING SYSTEM SHUTDOWN.
- 1 INSTALL 45° BEND.
- 2 INSTALL 45° BEND, 2' BEHIND CURB
- 3 INSTALL WVWA COMMERCIAL METER VAULT, SEE DETAIL W-7. WITH 8" FIRE LINE AND 1.5" DOMESTIC METER (2" PE DOMESTIC WATER SERVICE LINE. CONNECT OUTSIDE VAULT). PRESSURE REDUCING VALVES REQUIRED (PSI ABOVE 100). SET PRV IN VAULT JUST BEYOND METER VAULT ON BUILDING SIDE (SET TO 100 PSI PER PLUMBING ENGINEER). ADDITIONAL PRV WILL BE SET INSIDE BUILDING - SEE MEP PLANS. CONTRACTOR TO SUBMIT VAULT DESIGN TO WVWA FOR REVIEW AND APPROVAL.
- 4A INSTALL 8"X6" TEE, 6" GATE VALVE, AND FH ASSEMBLY
- 4 INSTALL 8"X6" TEE AND 6" GATE VALVE
- 5A INSTALL WALL MOUNTED DUAL FDC AND PIV. SEE PLUMBING PLANS FOR DETAILS.
- 5 INSTALL 6" - 90° BEND
- 6 INSTALL 22 1/2° BEND
- 7 INSTALL FIRE HYDRANT ASSEMBLY

I hereby certify that, to the best of my knowledge and belief, the locations of the water and sewer facilities shown on these record drawings have been constructed in accordance with approved plans and specs.

Devin J. Bowman
Name:
Date: August 18, 2022

Devin J. Bowman
Signature:

COMMONWEALTH OF VIRGINIA
JACK D. ELLINWOOD
Lic. No. 001107
08/29/2022
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0 TECHNOLOGY DRIVE
LOWES BTS - SAMET
SITE DEVELOPMENT PLANS

TAX ID: 064.02-02-50.00-0000
ROANOKE COUNTY, VIRGINIA

REVISIONS
PLAN REVISION #1
MARCH 29, 2022

DESIGNED BY: PDG
DRAWN BY: JDE / JMD
CHECKED BY: JDE
SCALE: 1" = 40'
DATE: FEBRUARY 03, 2022
PROJECT NUMBER: 21-0337
SHEET TITLE: SITE LAYOUT & DIMENSIONAL PLAN

C04
04 OF 13

APPROVED, 4/26/2022