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**0 TECHNOLOGY DRIVE
LOWES BTS - SAMET
AS-BUILT PLANS**
ROANOKE COUNTY, VIRGINIA

REVISIONS

DESIGNED BY: JMD
DRAWN BY: JDE / JMD
CHECKED BY: JDE
SCALE: 1" = 20'
DATE: AUGUST 24, 2022
PROJECT NUMBER: 21-0337
SHEET TITLE: AS-BUILT WATER & SANITARY SEWER PLANS - PUBLIC

AB1
01 OF 02

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. ON-SITE 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 WYMA CONDUCTED TEST ON 01/18/2022 IS AS FOLLOWS:

HYDRANT 20936

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.

WATERLINE LEGEND:

- 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 WYMA FOR FIRE WATCH DURING SYSTEM SHUTDOWN.
- INSTALL 45° BEND.
- INSTALL 45° BEND, 2' BEHIND CURB
- INSTALL WYMA 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 WYMA FOR REVIEW AND APPROVAL.
- INSTALL 8"x6" TEE, 6" GATE VALVE, AND FH ASSEMBLY
- INSTALL 8"x6" TEE AND 6" GATE VALVE
- INSTALL WALL MOUNTED DUAL FDC AND PRV. SEE PLUMBING PLANS FOR DETAILS.
- INSTALL 6" - 90° BEND
- INSTALL 22 1/2° BEND
- INSTALL FIRE HYDRANT ASSEMBLY

