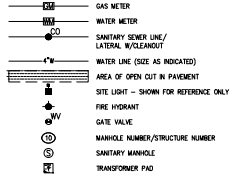


# UTILITY GENERAL NOTES:

- CONTRACTOR TO CONFIRM LOCATION & INVERT OF EXISTING UTILITY LINES AND NEW SERVICE LINE PRIOR TO INSTALLATION ON ANY NEW UTILITY LINES. REFER TO BUILDING PLANS FOR EXACT LOCATION AND INVERT OF SERVICE LINES / LATERALS EXISTING THE BUILDING. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES OR CONFLICTS.
- CONTRACTOR TO CONTACT THE WESTERN VIRGINIA WATER AUTHORITY (WVWA) PRIOR TO EXTENDING WATER & SEWER SERVICE LINES TO COORDINATE THE CONNECTION TO THE EXISTING WATER AND SEWER MAINS AND TO ARRANGE FOR ALL REQUIRED PRE-CONSTRUCTION CONFERENCES AND INSPECTIONS.
- CLEAN-OUTS IN PAVEMENT OR SIDEWALK SHALL BE SET IN TRAFFIC BEARING CAST IRON VALVE BOX OR APPROVED CLEAN-OUT BOX WITH TOP SET FLUSH WITH FINISHED PAVED GRADE (CAPITAL FOUNDRY MODEL #80-MS, OR APPROVED EQUAL).
- UNLESS OTHERWISE NOTED, SANITARY SEWER LATERALS SHALL BE INSTALLED AT 1/4" PER 1' SLOPE (MIN.) FROM POINT OF CONNECTION TO BUILDING. CONTRACTOR TO CONFIRM INVERT OF EXISTING MAIN OR LATERAL PRIOR TO INSTALLATION OF LATERAL. REFER TO INTERNATIONAL PLUMBING CODE (IPC) FOR OTHER REQUIREMENTS.
- WHERE APPLICABLE, ALL WATER AND SEWER WORK (BOTH PUBLIC AND PRIVATE) SHALL CONFORM TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS, LATEST EDITION. SEWER LATERALS AND DOMESTIC WATER SERVICE LINES SHALL CONFORM TO INTERNATIONAL PLUMBING CODE, LATEST ADOPTED EDITION.
- CONTRACTOR SHALL ENSURE THAT EXISTING WATER AND SEWER SERVICES LINES WHICH RUN THROUGH OR ADJACENT TO THE SITE REMAIN IN SERVICE AT ALL TIMES UNLESS A SHUTOFF IS APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY.
- IN ACCORDANCE WITH THE VIRGINIA STATEWIDE FIRE PREVENTION CODE SECTION 3301.1, AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
- A RIGHT-OF-WAY EXCAVATION PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE CITY OF ROANOKE PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT-OF-WAY. THE PERMIT APPLIES TO ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY, INCLUDING BUT NOT LIMITED TO DRIVEWAY CONNECTION TO RIGHT-OF-WAY, INSTALLATION OF SEWERALS AND UTILITY CONNECTIONS. THIS PERMIT IS SUBMITTED TO THE CITY PERMIT CENTER AND IS ADMINISTERED BY THE TRANSPORTATION DIVISION. ALL CONSTRUCTION EXERCISED WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF ROANOKE, RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS.

# UTILITY LEGEND:



# UTILITY CONTACTS:

**ELECTRIC:**  
APPALACHIAN POWER COMPANY  
P.O. BOX 2021  
ROANOKE, VA 24022  
RIVER AVENUE SERVICE CENTER  
802 RIVER AVENUE  
(540) 427-3643

**CABLE TELEVISION:**  
CSC COMMUNICATIONS  
P.O. BOX 13726  
ROANOKE, VA 24026  
(540) 778-3844, EXT. 120  
(540) 778-8362 (FAX)

**NATURAL GAS:**  
ROANOKE GAS COMPANY  
P.O. BOX 13007  
ROANOKE, VA 24013  
(540) 453-3800  
(540) 777-3801  
(540) 777-3804 (FAX)

**WATER AND SEWER:**  
WESTERN VIRGINIA WATER AUTHORITY  
2912 S. JEFFERSON STREET  
ROANOKE, VA 24014  
(540) 853-5688  
(540) 853-1017 (FAX)

**TELEPHONE:**  
VERIZON  
4843 OAKLAND BOULEVARD  
ROANOKE, VA 24012  
(540) 365-7510  
(540) 365-2608 (FAX)

# KEYNOTES:

- POINT OF CONNECTION TO EXISTING PUBLIC WATERLINE FOR NEW WATER SERVICE. CONTRACTOR SHALL CONTACT WVWA - UTILITY LINE SERVICES ENGINEERING COORDINATOR (MR. MARK SIMS) AT 540-523-3460 AT LEAST 72 HOURS IN ADVANCE OF PERFORMING WORK. CONNECTION TO BE PERFORMED WITH SADDLE TAP AND CORPORATION STOP IN ACCORDANCE WITH WESTERN VIRGINIA WATER AUTHORITY (WVWA) PROCEDURES, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED FITTINGS AND COUPLINGS NEEDED TO JOIN THE NEW LINE TO EXISTING LINE. REFER TO KEYNOTE 5 FOR ADDITIONAL INFORMATION REGARDING TRENCH BACKFILLING AND COMPACTION AND PAVEMENT RESTORATION. SEE GENERAL NOTE 8.
- NEW DOMESTIC WATER SERVICE LINE (SIZE AS INDICATED) AND COMMERCIAL METER VAULT. WATER SYSTEM APPURTENANCES (VALVE, BENDS, TEES, ETC.) ARE AS INDICATED HEREON. SEE WVWA DETAIL W-5 (COMMERCIAL METER VAULT) ON SHEET C4-2 FOR ADDITIONAL INFORMATION.
- NEW SANITARY SEWER LATERAL (SIZE INDICATED) WITH SAMPLING M.H. AND CLEAN-OUTS PLACED AS SHOWN. PIPE MATERIAL SHALL CONFORM TO INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS FOR UNDERGROUND BUILDING DRAINAGE AND VENT PIPE. REFER TO BUILDING PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- NEW AND EXISTING STORM DRAIN LINES AND STRUCTURES SHOWN HEREON FOR UTILITY COORDINATION INFORMATION ONLY. REFER TO SHEET C5-1 FOR DETAILED STORM DRAINAGE AND GRADING PLAN AND ADDITIONAL INFORMATION.
- OPEN CUT ASPHALT PAVEMENT FOR INSTALLATION OF NEW SANITARY SEWER OR WATER LINE, WHERE NECESSARY, REPAIR/REPLACE DAMAGED CURB TO MATCH ORIGINAL AS NEEDED AFTER INSTALLATION. TRENCH BACKFILLING AND COMPACTION AND PAVEMENT RESTORATION MUST MEET THE SPECIFICATIONS FOUND IN THE CITY OF ROANOKE, RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS. REFER TO DETAIL U-1 ON SHEET C4-2 FOR ADDITIONAL INFORMATION. UNLESS OTHERWISE NOTED IN THE RIGHT-OF-WAY EXCAVATION PERMIT, ALL PAVEMENT MUST BE RESTORED WITHIN 48 HOURS OF COMPLETION OF WORK AND SHALL BE COORDINATED WITH CITY OF ROANOKE.
- NEW GAS METER AND SERVICE LINE BY ROANOKE GAS COMPANY. COORDINATE LOCATION OF METER AND RISE-UP DOES NOT DRAIN TO SANITARY SEWER. (PROTECTED CONDITION)
- SITE LIGHT (TYPICAL) SHOWN FOR COORDINATION ONLY. PLAN PREPARED BY OTHERS.
- CONCRETE ELECTRICAL TRANSFORMER PAD (BY CONTRACTOR) IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS PROVIDED BY A.E.P.
- ELECTRICAL CONDUITS FOR PRIMARY AND SECONDARY POWER OR BRANCH CIRCUITS SHOWN FOR COORDINATION AND GENERAL, POSITIVE PURPOSES ONLY. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND/OR POWER COMPANY DURING INSTALLATION OF CONDUITS / LINES.
- TELEPHONE AND/OR COMMUNICATIONS CONDUITS SHOWN FOR COORDINATION PURPOSES ONLY. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND/OR TELEPHONE COMPANY DURING INSTALLATION OF CONDUITS / LINES.
- EXISTING WATER SERVICES TO BE REMOVED. REMOVE EXISTING 8" METER AND 1" SERVICE LINE BACK TO MAIN. CAP/PLUG AT CORP. STOP. REFER TO KEYNOTE 5 FOR PAVEMENT REMOVAL/RESTORATION.
- ROOFTOP P.E.T. AREA THAT DRAINS TO SANITARY SEWER. SHALL BE COVERED SUCH THAT RAIN WATER AND RUN-OFF DOES NOT DRAIN TO SANITARY SEWER. (PROTECTED CONDITION)
- KEY BOX LOCATION - WALL MOUNTED NEXT TO MAIN ENTRANCE IN ACCORDANCE WITH CITY OF ROANOKE FIRE MARSHAL REQUIREMENT. SEE TIME DRAWING/NOTES.

# SEWER TABULATION:

10 4" DIA. MANHOLE (SAMPLING MANHOLE)  
Type = 950.00  
Inv. = 953.00

# FIRE DATA / KEYNOTES:

- FD-1- USE GROUP: "B" (REFER TO ARCHITECTURAL PLAN)
- FD-2- CONSTRUCTION TYPE: "IB" (UNREINFORCED NON-COMBUSTIBLE)
- FD-3- USE GROUP AND CONSTRUCTION TYPE PROVIDED BY PROJECT ARCHITECT IN ACCORDANCE WITH VIRGINIA UNIFORM STATEwide BUILDING CODE AND INTERNATIONAL BUILDING CODE.
- FD-6- BUILDING IS NOT SPRINKLER.
- FD-9- FIRE FLOW REQUIRED (BY CODE): 2,000 GPM.
- FD-4- FIRE FLOW AVAILABLE:  
AT FIRE HYDRANT HYD-11824 (ADJACENT TO SITE)  
- STATIC PRESSURE = 40 PSI  
- RESIDUAL PRESSURE = 40 PSI  
- FLOW (MEASURED AT 157') = 1,484 GPM  
- FLOW AT 20 PSI (CALCULATED) = 1,480 GPM  
AT FIRE HYDRANT HYD-11827 (210'-FEET NORTHEAST OF SITE)  
- STATIC PRESSURE = 74 PSI  
- RESIDUAL PRESSURE = 64 PSI  
- FLOW (MEASURED AT 157') = 1,404 GPM  
- FLOW AT 20 PSI (CALCULATED) = 1,400 GPM  
FIRE FLOW AVAILABLE (AT 20 PSI) IS BASED ON FLOW TEST INFORMATION PROVIDED BY THE WESTERN VIRGINIA WATER AUTHORITY. FLOW TESTS PERFORMED BY LOCAL FIRE DEPARTMENT.
- FD-7- EXISTING FIRE HYDRANT WVWA FHY 11824 (PUBLIC) IS LOCATED AT THE SOUTHEAST CORNER OF THE SITE AND IS WITHIN 300'-FEET OF THE MOST REMOTE PART OF THE BUILDING.
- FD-8- KEY BOX (DINCK 2000 SERIES OR ABOVE) TO BE WALL-MOUNTED WHERE SHOWN. SEE KEYNOTE NO. 13.

City of Roanoke  
Planning, Building, & Development  
COMPREHENSIVE DEVELOPMENT PLAN  
**APPROVED**  
by Aaron Cypher 06/10/2020

CITY PLAN NO.: CP20-0016

0 10' 20' 40'  
SCALE: 1" = 20'

Date: \_\_\_\_\_  
 Drawn By: WVA  
 Checked By: WVA  
 Date: 06/08/20  
 Designated By: WVA  
 Date: 06/08/20

**Matthew C. Craig**  
 PROFESSIONAL ENGINEER  
 701 FIRE STREET, S.E.  
 ROANOKE, VA 24012  
 TEL: (540) 365-7510  
 FAX: (540) 365-2608

NEW ANGELS OF ASSOS CHURCH  
 775 FRANKLIN ROAD, SW  
 ROANOKE, VIRGINIA

**UTILITY PLAN**  
 Vertical Scale: N/A  
 Horizontal Scale: 1" = 20'  
 Computation Number: 4009  
 Sheet No.: \_\_\_\_\_

**C4.1**