

**SANITARY SEWER SCHEDULE**

- SEE SHEET C-13 FOR PROFILE OF NEW SANITARY SEWER LATERAL.
  - SEE SHEET C-13 FOR SANITARY SEWER BORE & JACK, EXCAVATION, AND TAP REQUIREMENTS.
  - SEE SHEET C-16 FOR WYMA STANDARDS PERTAINING TO INSTALLATION.
  - ALL NEW SANITARY SEWER PIPE AND CLEANOUTS SHALL BE SIX-INCH DIAMETER SDP-35 UNPLASTICIZED PVC. MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH WYMA STANDARDS AND SPECIFICATIONS.
  - ALL NEW CLEANOUTS SHALL BE INSTALLED WITH TRAFFIC-BEARING FRAME AND COVER.
- 1 PROVIDE 3" NEW 6" SS AT 6.22% INV. OUT=1049.2. BORE & JACK REQ'D UNDER HOLLINS ROAD. SEE "SANITARY SEWER LATERAL CROSSING HOLLINS ROAD" NOTES ON PROFILE SHEET.
  - 2 PROVIDE WYMA STANDARD SAMPLING MANHOLE.  
RM = 1055.5  
INV. IN = 1053.84  
INV. OUT = 1053.74
  - 3 PROVIDE 48" NEW 6" SS AT 40.5%  
PROVIDE NEW SSCD, TOP = ±1078.1, INV. = 1073.3
  - 4 PROVIDE 14" NEW 6" SS AT 13.8%  
PROVIDE NEW SSCD, TOP = ±1079.7, INV. = 1075.2
  - 5 PROVIDE 18" NEW 6" SS AT 44.4%  
PROVIDE NEW SSCD, TOP = ±1086.6, INV. = 1083.2
  - 6 PROVIDE 36" NEW 6" SS AT 7.37%  
PROVIDE NEW SSCD, TOP = ±1091.0, INV. = 1086.0
  - 7 PROVIDE 5' STUB OF NEW 6" SS AT MIN 1.04% TO BUILDING. CAP AND PLUG FOR EXTENSION BY BUILDING PLUMBING CONTRACTOR. COORDINATE ALIGNMENT AND SLOPE OF STUB WITH BUILDING PLANS.
  - 8 PROVIDE 18" NEW 6" SS AT 1.67%  
PROVIDE NEW SSCD, TOP = ±1090.7, INV. = 1086.3
  - 9 PROVIDE 36" NEW 6" SS AT 4.00%  
PROVIDE NEW SSCD, TOP = ±1091.3, INV. = 1087.7
  - 10 PROVIDE 41" NEW 6" SS AT 28.78%  
PROVIDE NEW SSCD, TOP = ±1103.7, INV. = 1099.5
  - 11 PROVIDE 5' STUB OF NEW 6" SS AT MIN 1.04% TO BUILDING. CAP AND PLUG FOR EXTENSION BY BUILDING PLUMBING CONTRACTOR. COORDINATE ALIGNMENT AND SLOPE OF STUB WITH BUILDING PLANS.

**NEW WATER SERVICE NOTES**

SEE SHEET C-16 FOR WYMA STANDARDS PERTAINING TO INSTALLATION.

THE CONTRACTOR SHALL COORDINATE TAPS FOR NEW SANITARY SEWER AND WATERLINES WITH MARK SINK, ENGINEERING COORDINATOR WITH THE WESTERN VIRGINIA WATER AUTHORITY (WVWA), AT 537-3460.

THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS TO MAKE THE TAPS ON THE WATER MAIN, INCLUDING TAPPING SLEEVES AND SADDLES. THE WVWA WILL PERFORM THE ACTUAL TAPS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS AND LABOR NECESSARY FOR FULL CONSTRUCTION OF THE NEW LATERAL AND FIRE HYDRANT SUPPLY. WATERLINE MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH WYMA STANDARDS AND SPECIFICATIONS.

IF NON-METALLIC MATERIALS ARE USED FOR NEW LATERAL, A TRACER-WIRE SHALL BE INSTALLED BETWEEN THE METER BOX AND THE NEW ISOLATION VALVE BOX AT THE BUILDING.

ALL WORKS WILL BE INSPECTED BY WVWA AND/OR ROANOKE COUNTY INSPECTORS.

UPON OWNER'S PAYMENT OF FEES AND COMPLETION OF APPLICATION FOR NEW WATER SERVICE, THE CONTRACTOR SHALL COORDINATE WITH THE WVWA FOR SCHEDULING THE NEW 2" & 6" TAPS INTO THE EXISTING WATERLINE. ACTUAL TAPS BY WVWA.

- 1 TAP EXISTING 12" WATERLINE WITH NEW 6". ALL MATERIALS BY CONTRACTOR, ACTUAL TAP BY THE WVWA
- 2 PROVIDE NEW 6" DUCTILE IRON WATERLINE, PROVIDE TAP FOR NEW 2" DOMESTIC WATERLINE
- 3 PROVIDE NEW 6" DETECTOR CHECK AND MANHOLE FOR FIRE HYDRANT BACKFLOW PROTECTION. SEE DETAIL W-8, SHEET C-16
- 4 PROVIDE NEW 6" DUCTILE IRON WATERLINE, BONDS AND THROUST BLOCKS TO SUPPLY NEW PRIVATE FIRE HYDRANT
- 5 PROVIDE NEW PRIVATE FIRE HYDRANT AND ISOLATION VALVE ASSEMBLY. BASE OF NEW PRIVATE HYDRANT SHALL BE PAINTED WHITE.
- 6 TAP EXISTING 12" WATERLINE WITH NEW 2". ALL MATERIALS BY CONTRACTOR, ACTUAL TAP BY THE WVWA. PROVIDE NEW 2" DOMESTIC WATERLINE, PRESSURE-REDUCING VALVE (PRV)-REDUCE PRESSURE TO 90 psi ON THE LOW SIDE, FROM LOCATION OF TAP TO EDGE OF EXISTING WATER EASEMENT
- 7 PROVIDE NEW METER BOX AND SETTER FOR 1-1/2" DOMESTIC WATER METER. METER BODY BY WVWA FOLLOWING OWNER'S PAYMENT OF METER FEE
- 8 PROVIDE NEW 2" DOMESTIC WATER LATERAL
- 9 PROVIDE NEW 2" ISOLATION VALVE IN BOX. SEE C-16 FOR DETAILS. PROVIDE 2" WATERLINE TO BUILDING LINE AND CAP FOR EXTENSION BY BUILDING PLUMBER. COORDINATE EXACT POINT OF BUILDING ENTRY WITH PLUMBING SHEETS OF BUILDING PLANS.

**NEW ELECTRIC SERVICE NOTES**

SEE BUILDING PLANS FOR NEW ELECTRICAL SERVICE REQUIREMENTS.

AT THE TIME OF SITE PLAN PREPARATION, IT IS ANTICIPATED THAT THE NEW ELECTRIC SERVICE WILL BE BROUGHT OVERHEAD FROM THE EXISTING LINES LOCATED AT THE NORTHERN EDGE OF THE CHURCH PROPERTY, AND THAT A NEW GROUND-MOUNTED TRANSFORMER WILL BE REQUIRED NEAR THE NEW BUILDING. IT IS FURTHER ASSUMED THAT THE NEW SERVICE WILL BE UNDERGROUND FROM THE TRANSFORMER TO THE BUILDING. THE LOCATION AND SIZE OF THE REQUIRED TRANSFORMER IS UNKNOWN AT THIS TIME. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND AMERICAN ELECTRIC POWER RELATIVE TO LOCATION AND SIZE OF TRANSFORMER AND PAD.

NEW TRANSFORMER SHALL BE PLACED WITH RESPECT TO NEW SANITARY SEWER, STORM DRAIN, ROOF COLLECTORS, AND DOMESTIC WATERLINE SERVICES. INFORM ENGINEER PRIOR TO INSTALLATION OF ELECTRIC SERVICE. IF POTENTIAL CONFLICTS EXIST BETWEEN NEW ELECTRIC AND NEW IMPROVEMENTS SHOWN HEREIN.

**TRAFFIC CONTROL NOTES**

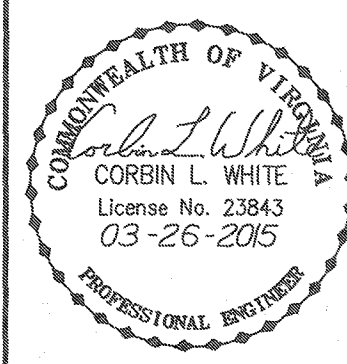
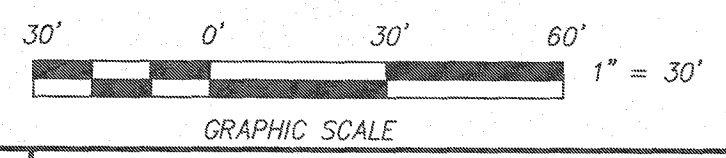
TEMPORARY LANE CLOSURES IN HOLLINS ROAD MAY BE REQUIRED FOR INSTALLATION OF THE NEW SANITARY SEWER LATERAL. THE CONTRACTOR IS REQUIRED TO PROVIDE THE VDOT SALEM RESIDENCY WITH A TRAFFIC MAINTENANCE PLAN AT THE TIME OF APPLICATION FOR A LAND USE PERMIT TO ALLOW THE UTILITY CROSSING.

CONTRACTOR SHALL PERFORM HIS WORK SUCH THAT TEMPORARY LANE CLOSURES, IF REQUIRED, ARE DURING NON-PEAK TIMES OF TRAFFIC ON HOLLINS ROAD.

MARCH 23, 2020 AS-BUILT CONDITIONS FOR EXISTING WATER METER, WATER MANHOLE, SANITARY SEWER SAMPLING MANHOLE, AND PRIVATE FIRE HYDRANT

DATE OF FIELD SURVEY: MARCH 17, 2020

AS-BUILTS PERFORMED BY: CALDWELL WHITE ASSOCIATES



**SITE UTILITIES PLAN FOR SEVENTH DAY ADVENTIST REFORM MOVEMENT GENERAL CONFERENCE**

SHOWING CONSTRUCTION OF A NEW CHAPEL FACILITY AND ASSOCIATED PARKING

SITUATE 5232 / 5248 HOLLINS ROAD, NE HOLLINS MAGISTERIAL DISTRICT COUNTY OF ROANOKE, VIRGINIA

**CWA CALDWELL WHITE ASSOCIATES**

ENGINEERS / SURVEYORS / PLANNERS

4803 MELROSE AVENUE  
P.O. BOX 6890  
ROANOKE, VIRGINIA 24017-0260  
(540) 368-5400  
FAX: (540) 368-8708

**HOLLINS ROAD**  
VA SEC. ROUTE 601  
VARIABLE R/W  
(45 MPH POSTED SPEED LIMIT)

SHEET REVISED TO ADD PRIVATE FIRE HYDRANT AND VALVING REQUIREMENTS, ADD PRESSURE-REDUCING VALVE (PRV), ADD A SEPARATE SANITARY LATERAL FROM KITCHEN, AND TO REQUIRE BORE & JACK OF HOLLINS ROAD FOR NEW SANITARY SEWER LATERAL

SHEET REVISED TO ADD SEPARATE WATERLINE TAPS FOR FIRE HYDRANT AND DOMESTIC CONNECTIONS

REVISED MARCH 26, 2015 PER ROANOKE COUNTY / WVWA REVIEW - CLW

REVISED DECEMBER 11, 2014 PER RHE, CO / VDOT / WVWA REVIEW - CLW