



- NOTES:**
- EXISTING GRADE TOPOGRAPHY SHOWN HEREON IS TAKEN FROM COUNTY OF ROANOKE AERIAL MAPPING. CALDWELL WHITE ASSOCIATES HAS PERFORMED NO FIELD SURVEYS TO CONFIRM TOPOGRAPHIC CONDITIONS SHOWN HEREON.
  - LOCATIONS AND ELEVATIONS OF EXISTING SANITARY SEWER MANHOLES SHOWN HEREON ARE TAKEN FROM THE WESTERN VIRGINIA WATER AUTHORITY'S (WVWA) GEOGRAPHICAL INFORMATION SYSTEM (GIS). CALDWELL WHITE ASSOCIATES HAS PERFORMED NO FIELD SURVEYS TO CONFIRM THE EXISTENCE, LOCATION, OR ELEVATIONS OF EXISTING SANITARY SEWER SYSTEMS SHOWN HEREON.
  - ALL NEW SANITARY SEWER LATERALS SHALL BE SD-35 UNPLASTICIZED PVC PIPE, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND SPECIFICATIONS.
  - PIPE SHALL BE BEDDED IN MINIMUM 2" OF BEDDING STONE IN NORMAL SOIL CONDITIONS, AND IN A MINIMUM OF 6" IN ROCK CONDITIONS.
  - BEDDING STONE SHALL BE PROVIDED TO 4" OVER TOP OF PIPE.
  - PROVIDE NON-DETECTABLE METALLIC WARNING TAPE ABOVE TOTAL LENGTH OF CARRIER PIPE, LOCATED 12" BELOW FINISH GRADE.
  - ABSOLUTE MINIMUM PIPE SLOPE IS 1/8" PER FOOT (1.04%).
  - ABSOLUTE MINIMUM COVER ON SEWER LATERAL CARRIER PIPE IS 36".
  - NEW CLEANOUT MATERIALS, FITTINGS, ADAPTERS, ETC. SHALL MATCH CARRIER PIPE IN TYPE AND DIAMETER.
  - ELEVATIONS SHOWN IN PROFILE FOR TOP OF CLEANOUT ARE EXISTING GRADE, BASED ON AERIAL MAPPING, TO SHOW DEPTH OF COVER ON NEW SYSTEM. ALL CLEANOUTS SHALL EXTEND ONE FOOT ABOVE EXISTING GRADE, AND SHALL BE EQUIPPED WITH CLEANOUT ADAPTER AND RAISED HEAD PLUG.
  - MINOR MODIFICATION TO LOCATION AND INVERT MAY BE PERFORMED BY THE CONTRACTOR IF NECESSARY DUE TO GROUND CONDITIONS DIFFERING FROM AERIAL MAPPING PROVIDED HEREIN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO MAJOR CHANGES.
  - CONTRACTOR SHALL DISTURB THE MINIMUM AMOUNT OF GROUND NECESSARY TO INSTALL THE NEW SEWER LATERAL SYSTEM, UNLESS OTHERWISE APPROVED BY THE COUNTY OF ROANOKE. THE CONTRACTOR SHALL NOT DISTURB LANDS BEYOND THE LIMITS SHOWN HEREIN.
  - SEE NOTES BELOW FOR DISPOSITION OF WASTE TREES AND BRUSH GENERATED BY THE PROPOSED CONSTRUCTION.
  - COMPACTION OVER NEW LATERAL SHALL BE TO 95% STANDARD PROCTOR WHERE LATERAL CROSSES EXISTING PAVED DRIVEWAY AND DITCH. SEE PAVEMENT REPLACEMENT DETAIL FOR RESURFACING REQUIREMENTS IN THIS AREA.
  - WHERE NEW LATERAL CONSTRUCTION IS THROUGH WOODED OR LAWN AREAS, COMPACT ALL BUT THE UPPER ONE FOOT TO 95% STANDARD PROCTOR. COMPACT UPPER ONE FOOT TO 80% PROCTOR, AND SCARIFY IMMEDIATELY PRIOR TO APPLICATION OF PERMANENT SEEDING MEASURES.
  - ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH OSHA REGULATIONS, PAYING PARTICULAR ATTENTION TO STANDARDS FOR TRENCHING AND EXCAVATION.

**EXISTING WATER LATERAL NOTES**

IT IS KNOWN THAT THE CHURCH BUILDINGS ARE ON THE WVWA PUBLIC WATER SYSTEM, AND ARE SERVED VIA AN EXISTING 1" WATER METER LOCATED ON THE WESTERN SIDE OF GREEN RIDGE ROAD. THE EXACT LOCATION OF THE LATERAL BETWEEN THE METER AND THE BUILDINGS IS NOT KNOWN. INFORMATION PROVIDED TO THE ENGINEER INDICATES THAT THE EXISTING LATERAL RUNS BENEATH THE EXISTING PAVED DRIVE IN THE VICINITY OF THE NEW SEWER CROSSING.

PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING METER AND INSURE THAT THE SHUT-OFF IS OPERABLE, IN THE EVENT THE EXISTING WATER SERVICE REQUIRES TEMPORARY INTERRUPTION DUE TO CONSTRUCTION.

THE CONTRACTOR SHALL EXCAVATE CAREFULLY IN THE VICINITY OF WHERE THE NEW SANITARY LATERAL CROSSES THE DRIVEWAY, AND SHALL NOTIFY THE CHURCH IMMEDIATELY UPON DISTURBANCE OF THE EXISTING WATERLINE. IN THE EVENT THAT THE WATER LATERAL IS STRUCTURALLY ALTERED, THE CONTRACTOR SHALL MAKE REPAIRS USING APPROPRIATE MATERIALS, UNIONS, ETC. TO PROVIDE A PERMANENT REPAIR, AND NOTIFY THE ENGINEER IMMEDIATELY UPON DISTURBANCE.

**BRUSH AND TREE REMOVAL ALONG NEW SEWER ROUTE**

A PORTION OF THE NEW SANITARY SEWER LATERAL IS ROUTED THROUGH AREAS OF TREES AND BRUSH UNDERGROWTH. IT IS UNDERSTOOD THAT THE CONTRACTOR MUST PERFORM A CERTAIN LEVEL OF CLEARING IN ORDER TO CONSTRUCT THE NEW PIPELINE. HOWEVER, IN THE INTERESTS OF BOTH THE OWNER AND THE CONTRACTOR, IT IS DESIRED THAT THE MINIMUM AMOUNT OF CLEARING BE PERFORMED AS POSSIBLE. WHERE REMOVAL OF TREES AND BRUSH ARE UNAVOIDABLE, THE CONTRACTOR IS DIRECTED TO PLACE THE CUT AND CLEARED MATERIAL ON THE LOWER SIDE OF THE CLEARED ROUTE IN ORDER TO SERVE AS ADDITIONAL PROTECTION AGAINST EROSION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER RELATIVE TO DISPOSITION OF LARGER TREES THAT ARE REQUIRED TO BE REMOVED, BUT FOR PRICING PURPOSES THE CONTRACTOR SHALL ASSUME THAT ALL MATERIALS MAY BE LEFT ON-SITE.

IF NECESSARY TO PROVIDE ROOM ALONGSIDE THE AREA OF DISTURBANCE, THE CONTRACTOR MAY CUT ADDITIONAL TREES AND BRUSH BEYOND THE LIMITS OF LAND DISTURBANCE SHOWN HEREON. HOWEVER, THE GROUND MAY NOT BE GRUBBED OR TRAVELED ON WITH HEAVY EQUIPMENT BEYOND THE LIMITS OF DISTURBANCE SHOWN HEREON.

**GRAPE MYRTLE TREE REMOVAL NOTES**

IN THE VICINITY OF THE NEW SANITARY LATERAL / DRIVEWAY CROSSING, THERE ARE EXISTING MATURE GRAPE MYRTLE TREES ALONG THE WESTERN EDGE OF THE ACCESS DRIVEWAY. THE CONTRACTOR SHALL INSTALL THE NEW SEWER LATERAL SUCH AS TO MINIMIZE THE DISTURBANCE TO THE EXISTING TREES. IN THE EVENT THAT MORE THAN ONE OF THE TREES MUST BE REMOVED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION. A SLIGHTLY REVISED ALIGNMENT MAY BE PROVIDED TO REDUCE THE IMPACT TO THE TREES IN THIS LOCATION.

**SOIL EROSION CONTROL MEASURES**

**SILT FENCE BARRIER**

A SILT FENCE BARRIER SHALL BE PROVIDED BELOW DENuded AREAS AS SHOWN ON THE PLANS. PROVIDE DOUBLE ROW OF WIRE-BACKED SILT FENCE BELOW EXISTING WVWA MANHOLE AT PETERS CREEK, AS SHOWN. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THESE PLANS AND THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK, LATEST EDITION.

**TEMPORARY SEEDING**

ALL DISTURBED AREAS NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL RECEIVE TEMPORARY SEEDING.

**PERMANENT SEEDING**

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE, OR ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN ONE YEAR. IN THE EVENT THAT CERTAIN DISTURBED AREAS ARE TO BE LANDSCAPE MULCHED IN LIEU OF PERMANENT SEEDING, THE AREAS MUST BE MULCHED WITH SHREDED HARDWOOD OR OTHER PROTECTIVE COVERINGS IN ACCORDANCE WITH THE TIMELINES FOR TEMPORARY AND PERMANENT SEEDING, SHOWN HEREIN.

**TEMPORARY CONSTRUCTION ENTRANCE**

TEMPORARY STONE CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS GENERALLY SHOWN HEREON, SUBJECT TO ACTUAL LOCATIONS OF SIDEWALKS AND OTHER PHYSICAL IMPROVEMENTS THAT MAY REQUIRE MINOR RELOCATION OF CONSTRUCTION ACCESS POINTS. MAINTAIN ENTRANCES TO PREVENT TRANSPORT OF MUD, DIRT AND SEDIMENT ONTO PAVED SURFACES IN ACCORDANCE WITH THESE PLANS AND THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK, LATEST EDITION.

40' 20' 0' 40' 80' 1" = 40'

GRAPHIC SCALE

COMMONWEALTH OF VIRGINIA  
CORBIN L. WHITE  
License No. 23843  
07-20-2014  
PROFESSIONAL ENGINEER

DESIGNED: C.L. White  
DRAWN: C.L. White  
CHECKED: June 10, 2014  
DATE: June 10, 2014  
SCALE: 1" = 40'  
TAX PARCEL: 36.12-03-01.00  
FIELD BOOK: N/A  
W.O. No.: 14-0045

APPROVED

REVISD JULY 20, 2014 PER 1ST COUNTY REVIEW - CLW

NEW SANITARY SEWER LATERAL AND SOIL EROSION CONTROL PLAN FOR  
**UNITY OF ROANOKE VALLEY**  
SHOWING THE CONSTRUCTION OF A NEW PRIVATE SANITARY SEWER LATERAL AND ABANDONMENT OF AN EXISTING SEPTIC SYSTEM  
SITUATE 3300 GREEN RIDGE ROAD  
CATANBA MAGISTERIAL DISTRICT  
COUNTY OF ROANOKE, VIRGINIA

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