



- UTILITY NOTES:**
- LOCATE EXISTING UTILITIES. CALL THE TENNESSEE ONE CALL SYSTEM, AT 1-800-351-1111.
  - PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS TO NOTIFY THEM OF WORK IN THE AREA AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITIES. NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
  - CONTRACTOR MUST HAVE A VALID STATE OF TENNESSEE MUNICIPAL UTILITY LICENSE FOR CONSTRUCTION OF WATER AND SANITARY SEWER MAINS.
  - SPRINKLER AND/OR STANDPIPE INSTALLATION MUST BE PERFORMED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR.
  - THE LOCATIONS OF THE EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY POT-HOLING AND BY CONTACTING THE UTILITY COMPANIES INVOLVED.
  - PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD THE EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. FURNISH ANY SPECIAL EQUIPMENT REQUIRED TO WORK OVER AND AROUND THE UTILITIES.
  - TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND OSHA REGULATIONS.
  - WATER AND SANITARY SEWER INSTALLATION MUST BE INSPECTED BY KUB. CONTACT TIM BRANSON (865.558.2552) AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
  - THE STONE BEDDING AND BACKFILL SHALL BE PLACED IN STRICT COMPLIANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.
  - UTILITIES SHALL BE INSTALLED AFTER GRAVING IS COMPLETED AND APPROVED AND BEFORE ANY PAVEMENT IS INSTALLED.
  - INSTALL SERVICE LATERALS ACROSS STREETS BEFORE PAVING STREETS.
  - UNLESS OTHERWISE NOTED, ALL WATER LINES 4" OR GREATER SHALL BE CLASS 350 DIP, 3" LINES SHALL BE SDR 21 PVC, 2" OR LESS SHALL BE TYPE K COPPER.
  - ALL MECHANICAL JOINT FITTINGS FOR WATER LINES 4" OR GREATER SHALL BE RESTRAINED USING CONCRETE THRUST BLOCKING OR ENGINEER APPROVED EQUAL.
  - INSTALL FITTINGS AS NEEDED TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UNDERGROUND LINES AND OBSTRUCTIONS.
  - LOCATE WATER VALVES OUTSIDE OF PAVED AREAS.
  - WATER SERVICES SHOWN ON THESE DRAWINGS ARE FOR GENERAL LOCATION ONLY. PRIOR TO INSTALLATION, CONTRACTOR TO COORDINATE WITH THE UTILITY OWNER AND OWNER TO DETERMINE ACTUAL FIELD LOCATION OF WATER SERVICE TAPS, SERVICE LINES, VALVES, AND WATER METER.
  - A RUBBER BOOT CONNECTOR SHALL BE PROVIDED FOR EACH SANITARY SEWER MAIN OR LATERAL CONNECTING TO A MANHOLE. EACH TAP TO AN EXISTING MANHOLE MUST BE MECHANICALLY CORED.
  - ALL SANITARY SEWER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH KNOXVILLE UTILITY BOARD'S STANDARD WATER & SEWER SYSTEM SPECIFICATIONS AND DETAILS.
  - UNLESS OTHERWISE NOTED, ALL SANITARY SEWER LINES SHALL BE SDR 26 PVC.
  - WATER STOPS SHALL BE INSTALLED IN SEWER LINE TRENCHES NO MORE THAN 500 FEET APART TO PREVENT WATER FROM DRAINING THROUGH THE GRAVEL BEDDING. THE STOPS SHALL CONSIST OF COMPACTED CLAY AT LEAST THREE (3) FEET THICK FROM THE BOTTOM OF THE TRENCH TO THE TOP OF THE TRENCH. THE TAPS SHALL BE CUT A MINIMUM DEPTH OF TWO (2) FEET INTO BOTH WALLS OF THE TRENCH. THE PREFERRED LOCATION OF A WATER STOP IS UPSTREAM OF EACH MANHOLE. ALL STREAM CROSSINGS SHALL INCLUDE WATER STOPS ON BOTH SIDES OF CROSSING.

**UTILITY OWNERS:**

**WATER, SEWER, GAS, & ELECTRIC**  
KNOXVILLE UTILITIES BOARD (KUB)  
P.O. BOX 59017  
KNOXVILLE, TN 37950-9017  
CONTACT: MR. CHRIS MCCORMICK  
OFFICE PHONE: 865.558.2123

**TELEPHONE**  
AT&T  
9733 PARKSIDE DRIVE  
KNOXVILLE, TN 37922  
CONTACT: MR. VAUGHN JONES  
OFFICE PHONE: 865.539.8579

**CABLE**  
COMCAST  
5720 ASHEVILLE HIGHWAY  
KNOXVILLE, TN 37924  
CONTACT: MR. JIMMY GARDNER  
OFFICE PHONE: 865.437.0333

**LEGEND:**

|          |                                  |
|----------|----------------------------------|
| — W —    | PROPOSED WATER LINE              |
| — W —    | PROPOSED WATER VALVE             |
| — H —    | PROPOSED FIRE HYDRANT ASSEMBLY   |
| — SS —   | PROPOSED SANITARY SEWER          |
| — SS —   | PROPOSED SANITARY SEWER MANHOLE  |
| — CO —   | PROPOSED SANITARY SEWER CLEANOUT |
| — SD —   | PROPOSED STORM DRAIN             |
| — W —    | EXISTING WATER LINE              |
| — SS —   | EXISTING SANITARY SEWER          |
| — G —    | EXISTING GAS LINE                |
| — OH —   | EXISTING OVERHEAD UTILITIES      |
| ---      | PROPERTY LINE                    |
| TYP.     | TYPICAL                          |
| (21/C11) | DETAIL REF. (DETAIL NO./SHT NO.) |

