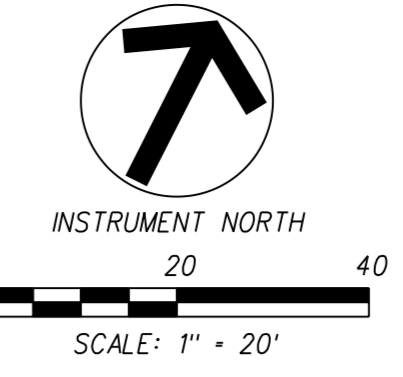
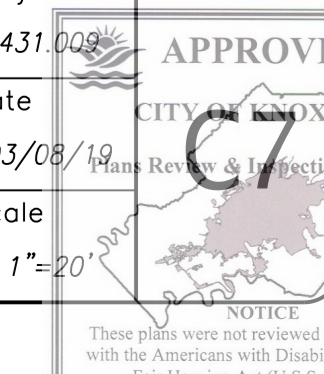




PROJ. NO.	DATE	BY	REVISION/ISSUE
431.008	06/21/19	AMC	DESIGNED BY
	06/04/19	AMC	REVISED PER COK COMMENTS
	03/08/19	AMC	REVISED PER COK COMMENTS
	03/08/19	AMC	ISSUED FOR CONSTRUCTION

Project	Sheet
431.008	07/24/19



- STORM PIPE NOTES:**
1. INSTALL STORM SEWER PIPING AND APPURTENANCES TO MEET THE MATERIALS, EQUIPMENT, AND CONSTRUCTION REQUIREMENTS OF THE CITY OF KNOXVILLE STANDARD SPECIFICATIONS.
  2. TRENCH DESIGN AND SAFETY FOR PIPELINE CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND USHA REGULATIONS.
  3. UNLESS NOTED OTHERWISE, STORM SEWER PIPE SHALL BE EITHER CLASS II REINFORCED CONCRETE PIPE (RCP), SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE PIPE (HDPE), OR SDR 26 POLYVINYL CHLORIDE PIPE (PVC). RCP SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M170 (ASTM C76). HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO M294.
  4. HDPE PIPE SHALL BE INSTALLED WITH WATER TIGHT (WT) JOINTS MEETING ALL AASHTO AND ASTM REQUIREMENTS. JOINTS SHALL BE MADE OF POLYISOPRENE AND INSTALLED AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP BY THE MANUFACTURER.
  5. PIPE DEFLECTION AND ALIGNMENT SHALL BE CHECKED AFTER BACKFILLING AND COMPACTION ARE COMPLETE AND PRIOR TO PLACING THE BASE. TEST DEFLECTION WITH A MANDREL OR OTHER APPROVED METHOD.
  6. PIPE WITH DEFLECTION 5% OR GREATER OR WITH UNDUPLICATE MISALIGNMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
  7. PIPE/CULVERTS ARE MEASURED IN TERMS OF HORIZONTAL LENGTH COMPLETE IN PLACE REGARDLESS OF TYPE, DEPTH, CLASS, SHAPE AND SIZE, AS MEASURED ALONG THE CENTERLINE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE (NO DEDUCTIONS FOR STRUCTURES). ACTUAL QUANTITY OF PIPE MAY VARY. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE NECESSARY QUANTITY OF PIPE TO CONSTRUCT THE COMPLETE SYSTEM AS SHOWN. INSTALLATION INCLUDES EXCAVATION, SHORING, FURNISHING AND INSTALLATION OF PIPES, JOINT MATERIALS, COUPLINGS, AND BACKFILL.
  8. FOR RCP PIPE WITH SLOPES GREATER THAN 15% USE JOINT TIES OR JOINT FASTENERS AS SPECIFIED BY THE MANUFACTURER. FOR HDPE PIPE WITH SLOPES GREATER THAN 15% USE CONCRETE PIPE ANCHORS AS SPECIFIED BY THE MANUFACTURER.
  9. WATER QUALITY UNIT SHALL BE 8'-FT DIAMETER FIRST DEFENSE HIGH CAPACITY BY HYDRO INTERNATIONAL OR ENGINEER APPROVED EQUAL. FIRST FLUSH TREATMENT = 4.2 CFS BYPASS FLOW = 17.5 CFS

Adam Kolontopp

- LEGEND:**
- PROPOSED DOUBLE CATCH BASIN
  - PROPOSED CATCH BASIN/AREA DRAIN
  - PROPOSED LANDSCAPE DRAIN
  - PROPOSED STORM MANHOLE
  - SD — PROPOSED STORM DRAIN
  - PROPERTY LINE
  - TYP. (13/C9) DETAIL REF. (DETAIL NO./SHT NO.)

CITY OF KNOXVILLE  
DEPARTMENT OF ENGINEERING  
APPROVED  
Adam Kolontopp  
07/24/19

