

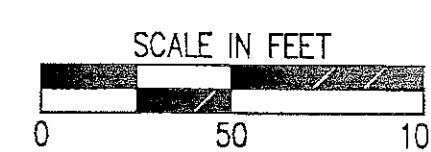
UTILITY KEYNOTES

- (A) EXISTING SANITARY SEWER TO BE REMOVED AND REPLACED WITH SDR-21 IN ACCORDANCE WITH ROANOKE COUNTY UTILITY DEPARTMENT STANDARDS. REFER TO SHEET C-26 FOR PROFILE AND ADDITIONAL INFORMATION.
- (B) NEW 8" WATERLINE, TYP.
- (C) PROPOSED FIRE HYDRANT ASSEMBLY, TYPICAL AS INDICATED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING BURY DEPTH WITH OTHER UTILITIES.
- (D) 2" WATER SERVICE TAP FOR FUTURE GAS STATION. EXTEND 2" WATER SERVICE LINE TO 5' BEYOND BACK OF CURB AND CAP.
- (E) ADJUST RIM OF EXISTING SANITARY SEWER MANHOLE. SEE EXISTING SANITARY SEWER PROFILES ON SHEET C-26 FOR DETAILS.
- (F) SITE LIGHTING. REFER TO SHEET C-34 FOR TYPICAL LIGHTING POLE BASE DETAIL. REFER TO BUILDING ELECTRICAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
- (G) 2- 2" CONDUIT FOR FIBER OPTIC CABLES TO SERVE FUTURE GAS STATION. CONDUIT SHALL BE 2" DIA. CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 2" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED FIBER OPTIC CABLE" WORDING, 12" ABOVE THE CONDUIT.
- (H) 16" X 8" WET TAP TO BE PERFORMED BY COUNTY OF ROANOKE. CONTRACTOR TO COORDINATE TAP WITH ROANOKE COUNTY. CONTRACTOR TO EXTEND WATERLINE FROM VALVE ON WET TAP AS SHOWN ON DRAWINGS.
- (I) TEMPORARY END OF LINE ASSEMBLY W/ 2 INCH BLOW-OFF. REFER TO ROANOKE COUNTY STANDARD DETAIL ON SHEET C-33.
- (J) NOT USED
- (K) CONCRETE ENCASE 20' OF EXISTING 10" S.S. REFER TO SHEET C-23 FOR ADDITIONAL INFORMATION.
- (M) NEW SIGNAL POLE & CONDUIT. REFER TO SHEET TS-2 FOR INFORMATION.

SITE UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAN 12' DEEP
8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
6" PVC SCHEDULE 40
DUCTILE IRON PIPE PER AWWA C150
4. WATER LINES SHALL BE AS FOLLOWS:
6" AND LARGER DUCTILE IRON PIPE PER AWWA C150
SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI 816.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS OR AS REQUIRED BY ROANOKE COUNTY UTILITY STANDARDS
7. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-0" COVER ON ALL WATERLINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE, MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
10. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
14. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
15. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
16. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF ROANOKE COUNTY WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
17. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
18. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
19. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
20. REFER TO THE BUILDING ELECTRICAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
21. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF OVERHEAD TELEPHONE LINES. CONTRACTOR SHALL COORDINATE THE TYPING OF INDIVIDUAL METERS WITH THE ELECTRIC COMPANY. CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY TO INSURE PROPER SEPARATION BETWEEN OVERHEAD LINES AND LIGHT POLES.
22. NEW SANITARY SEWER MANHOLES WITHIN THE LIMITS OF THE 100-YEAR FLOODWAY SHALL BE CONSTRUCTED WITH WATERTIGHT FRAMES AND COVERS.
23. ALL DOMESTIC WATER LINES SHALL BE EQUIPPED WITH A PRESSURE REDUCING VALVE.
24. A ROANOKE COUNTY INSPECTOR SHALL BE ON SITE DURING ANY WORK BEING PERFORMED ON THE PUBLIC SANITARY SEWER SYSTEM.
25. CONTRACTOR SHALL SUBMIT A BY-PASS PUMP PLAN TO ROANOKE COUNTY FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK ON THE EXISTING SANITARY SEWER MAIN. THIS PLAN MUST INCLUDE PUMP SYSTEM LAYOUT, EQUIPMENT, OPERATING PROCEDURES AND BACKUP EQUIPMENT/PROCEDURES.
26. NEW STORM DRAIN LINES SHOWN HEREON FOR INFORMATION ONLY. REFER TO SHEET C-7 THRU C-9 FOR DETAIL.

AS-BUILT
10-16-2002



Wm. Thomas Austin
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PROFESSIONAL ENGINEER

Commission No.: 1823

Drawn By: JFR

Checked By: WTA

Date: 9/28/01

Project Coordinator: WTA

WAL-MART STORE #3243-00

SITE UTILITY PLAN

AREA 'A'

ROANOKE COUNTY, VIRGINIA

Vertical Scale:

N/A

Horizontal Scale:

1"=50'

Issue Date:

9/28/01

Sheet No.:

C-4