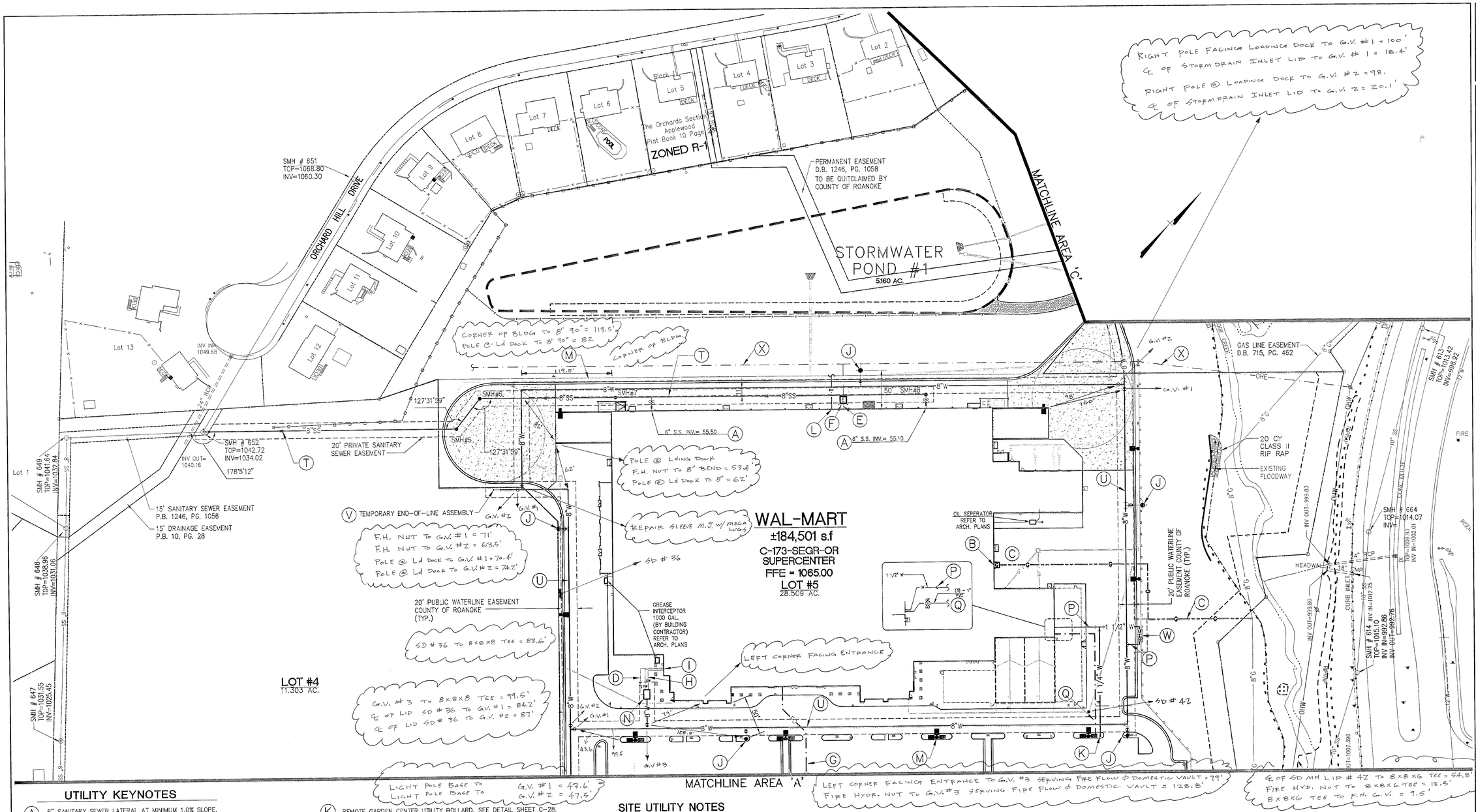

UTILITY KEYNOTES

(A) 6" SANITARY SEWER LATERAL AT MINIMUM 1.0% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.

(B) GAS ENTRY WITH GAS METER. CONTRACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AT METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYING OF INDIVIDUAL METER.

(C) CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE AND INSTALLATION OF GAS SERVICE LINE.

(D) 3/4" PVC CONDUIT FOR FIRE PROTECTION TAMPER SWITCH (TS).

(E) ELECTRICAL ENTRY. COORDINATE EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT (FROM BLDG TO TRANSFORMER) AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY. REFER TO THE BUILDING ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

(F) PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY REQUIREMENTS WITH ELECTRIC COMPANY.

(G) 2- 2" CONDUIT FOR FIBER OPTIC CABLES TO SERVE FUTURE GAS STATION. CONDUCT SHALL BE 2" DIA. CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DVCT OR 2" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPOLYTHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED FIBER OPTIC CABLE" WORDING, 12" ABOVE THE CONDUIT.

(H) 3" DOMESTIC WATERLINE (DW) ENTRY PER ROANOKE COUNTY UTILITY DEPARTMENT REQUIREMENTS. CONTRACTOR TO COORDINATE WITH COUNTY OF ROANOKE UTILITY DEPARTMENT. RPZ BACKFLOW PREVENTOR TO BE LOCATED IN BUILDING.

(I) 8" FIRE SERVICE/LINE/SPRINKLER ENTRY.

(J) PROPOSED FIRE HYDRANT ASSEMBLY, TYPICAL AS INDICATED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING DEPTH OF BURY WITH OTHER UTILITIES.

(K) REMOTE GARDEN CENTER UTILITY BOLLARD. SEE DETAIL SHEET C-28.

(L) TELEPHONE ENTRY. 50'-4" CONDUIT (2 RUNS).

(M) SITE LIGHTING. REFER TO SHEET C-34 FOR TYPICAL LIGHTING POLE BASE DETAIL. REFER TO BUILDING ELECTRICAL PLANS FOR SITE LIGHTING ELECTRICAL PLAN.

(N) CONCRETE WATER SERVICE VAULT CONTAINS FIRE LINE METER, CHECK VALVE, DOMESTIC METER, AND VALVES. VAULT AND ITS CONTENTS SHALL BE PROVIDED & INSTALLED ONLY BY ROANOKE COUNTY. CONTRACTOR SHALL CONNECT TO WATER LINE AND EXTEND AS SHOWN.

(P) GARDEN CENTER WATER SUPPLY, 1 1/2"W. CONTRACTOR TO TAP MAIN AND EXTEND 1 1/2" WATERLINE TO BUILDING, PROVIDE RPZ BACKFLOW PREVENTER AND METER ASSEMBLY PER ROANOKE COUNTY. SEE KEYNOTE 'W'.

(Q) (3)-1" CONDUITS FOR REMOTE UTILITY BOLLARD SUPPLY.
-GE FOR DUPLEX OUTLET
-GIG FOR IG OUTLET
-GD FOR DATA

(R) NOT USED

(S) NOT USED

(T) NEW PRIVATE 8" SANITARY SEWER. REFER TO SHEET C-27 FOR PROFILE.

(U) NEW 8" WATERLINE, TYP.

(V) TEMPORARY END OF LINE ASSEMBLY W/ 2 INCH BLOW OFF. REFER TO ROANOKE COUNTY STANDARD DETAIL ON SHEET C-33.

(W) 1" WATER METER (IRRIGATION WATER ONLY) AND 1" RPZ BACKFLOW PREVENTER (ABOVE GRADE) IN FREEZE PROOF BOX.

(X) NEW OVERHEAD ELECTRIC SERVICE. CONTACT AMERICAN ELECTRIC POWER TO SCHEDULE WORK. NEW PRIMARY ELECTRIC SERVICE (OVERHEAD/UNDERGROUND) BY A.E.P.

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. GARDEN CENTER WATER SUPPLY SOURCE TO BE PROVIDED THRU SEPARATE IRRIGATION METER.
22. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF OVERHEAD TELEPHONE LINES. CONTRACTOR SHALL COORDINATE THE TYING OF INDIVIDUAL METERS WITH THE ELECTRIC COMPANY. CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY TO INSURE PROPER SEPARATION BETWEEN OVERHEAD LINES AND LIGHT POLES.
23. NEW STORM DRAIN LINES SHOWN HEREON FOR INFORMATION ONLY. REFER TO SHEET C-7 THRU C-9 FOR DETAIL.

SCALE IN FEET
0 50 100

R:\DWGS\1823-AD\DWG\UTIL-B.DWG

COMMONWEALTH OF VIRGINIA
WM. THOMAS AUSTIN
No. 030907
PROFESSIONAL ENGINEER

Date:
Revisions

Commission No.: 1823
Drawn By: JPR
Checked By: WTA
Date: 9/28/01
Project Coordinator: WTA

Mattern & Craig
CONSULTING ENGINEERS • SURVEYORS
701 FIRST STREET
ROANOKE, VIRGINIA 24012
(540) 345-3342
FAX (540) 345-7691

WAL-MART STORE #3243-00
SITE UTILITY PLAN
AREA 'B'
ROANOKE COUNTY, VIRGINIA

Vertical Scale: N/A
Horizontal Scale: 1"=50'
Issue Date: 9/28/01
Sheet No.: C-5