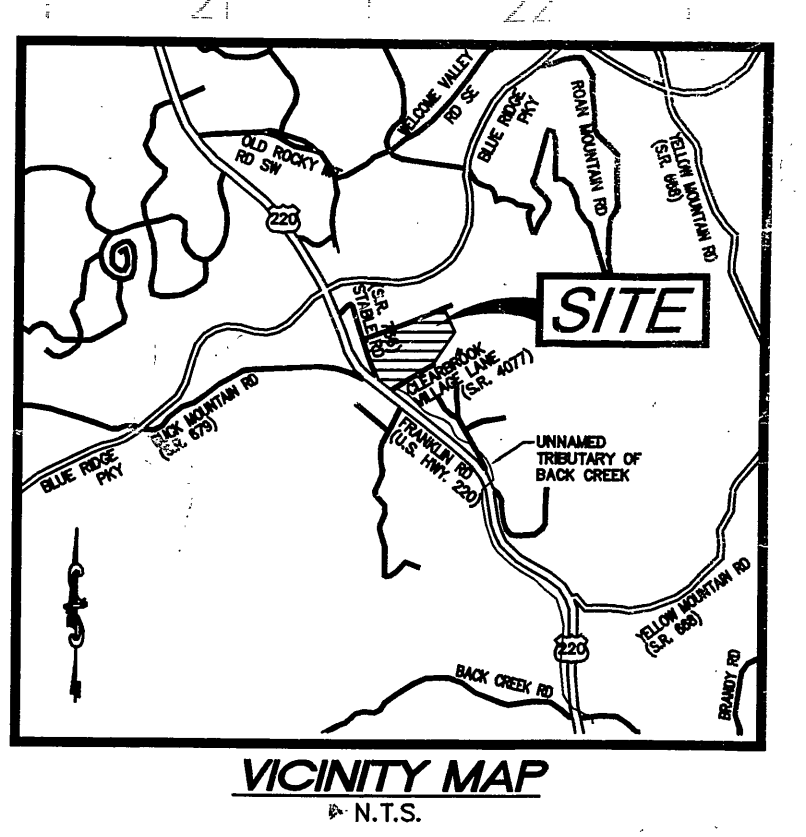


STRUCTURE TABLE				
STRUCTURE #	STRUCTURE TYPE	TOP OF COVER	INVERT	INVERT
001	MANHOLE	1184.18	1187.07	1187.07 (0.00)
002	MANHOLE	1186.62	1185.46	1185.46 (0.00)
003	MANHOLE	1172.39	1169.39	1169.39 (0.00)
004	MANHOLE	1172.60	1172.00	1172.00 (0.00)
005	MANHOLE	1172.54	1164.00	1164.00 (0.00)
006	MANHOLE	1172.61	1164.00	1164.00 (0.00)
007	MANHOLE	1172.40	1165.00	1165.00 (0.00)
008	MANHOLE	1172.40	1165.00	1165.00 (0.00)
009	MANHOLE	1172.40	1165.00	1165.00 (0.00)
010	MANHOLE	1172.40	1165.00	1165.00 (0.00)

Severe
Tested from MH 2 to MH 5. It passed
Tested from MH 5 to MH 6. It passed
Tested from MH 6 to MH 7. It passed
Tested from MH 7 to MH 8. It passed
Tested from MH 2 to MH 3. It passed
Tested from MH 3 to MH 4. It passed
All manholes passed

AREA OUTLINED AS PHASE II CONSTRUCTION SHALL BE MASS GRADED TO FINAL GRADE AS SHOWN. STUB UTILITIES TO 5 LF. PRESENT WITHIN 10' OF END OF WATER OR IRRIGATION LINE SHALL BE PERMANENTLY STABILIZED WITH FULL ERS MEASURES PER SEDIMENT AND EROSION CONTROL PLAN.

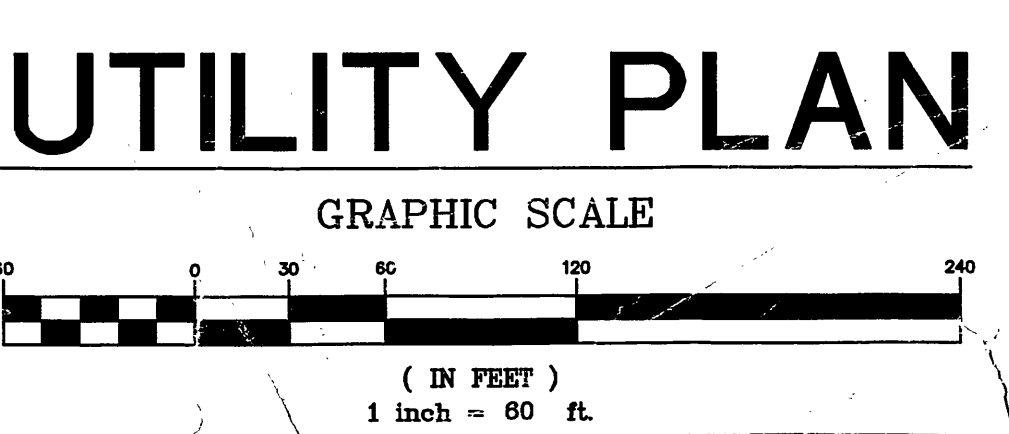
Tested 12" water main from 12" top to where it ties in with the 8". 4/27/10
Ken told the sat of 12" water main. 8/23/10



- ### UTILITY LEGEND
- (A) 6" SANITARY SEWER LATERAL AT MINIMUM 1.00% SLOPE. COORDINATE WITH ARCHITECTURAL PLANS.
 - (B) GAS ENTRY WITH GAS METER AT BUILDING. CONTRACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AT METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYPING OF INDIVIDUAL METERS.
 - (C) CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE AND INSTALLATION OF GAS SERVICE LINE.
 - (D) UNDERGROUND ELECTRIC SERVICE FROM POLE TO BUILDING. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BEDDING, CONDUIT, CABLES, PULL WIRES, SECONDARY CONDUITS, TRAP TAPES, BACKFILL, ETC., WHICH MAY BE REQUIRED BY ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH POWER COMPANIES. THE CONTRACTOR IN CONJUNCTION WITH THE UTILITY COMPANIES SHALL DETERMINE THE AMOUNT OF UTILITY LINE HE IS TO PROVIDE OUTSIDE THE UTILITY COMPANY'S ALLOWANCE.
 - (E) PROPOSED LOCATION OF TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH POWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD, CONDUIT AND PIPE BOLLARDS AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY.
 - (F) UNDERGROUND TELEPHONE FROM POLE TO BUILDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCHING, BEDDING, CONDUIT, PULL WIRE, TRAP TAPES, BACKFILL, ETC., WHICH MAY BE REQUIRED BY TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR SAID WORK. PROVIDE CONDUITS AS SHOWN.
 - (G) CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE UTILITY COMPANIES FOR THE INSTALLATION OF OVERHEAD/UNDERGROUND ELECTRIC AND TELEPHONE LINES. TYPICAL CONTRACTOR SHALL COORDINATE THE TYPING OF INDIVIDUAL METER WITH THE ELECTRIC COMPANY. SEE NOTE D, E, & F FOR ADDITIONAL NOTES PERTAINING TO ELECTRIC AND TELEPHONE LINES.
 - (H) DOMESTIC WATERLINE ENTRY WITH METER PER LOCAL WATER COMPANY REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE IN SIDE BLDG. SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC., WHICH MAY BE REQUIRED TO COORDINATE WITH WATER COMPANY.
 - (I) SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC., MEETING WATER COMPANY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS.
 - (J) PROVIDE FIRE HYDRANT AND ASSEMBLY, TYPICAL AS INDICATED. CONTRACTOR TO PROVIDE PIPE BOLLARD PROTECTION WHEN FIRE HYDRANT IS LOCATED IN PAVED AREA OR WHERE SHOWN. ALL HYDRANTS SHALL BE SUPPLIED BY A MINIMUM 8" WATER LINE.
 - (K) CONDUIT FOR FIBER POLE MOUNTED SECURITY CAMERAS:
A PULL BOX SHALL BE LOCATED WITHIN THE SIDEWALK AREA OR AS CLOSE TO THE BUILDING AS POSSIBLE. THE CONDUIT FROM THE BUILDING TO THE FIRST PULL BOX SHALL BE 3" DIAMETER CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 3" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPYLENE/ETHYLENE 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 CABLE" WARNING, 12" ABOVE CONDUIT. WHEN THE SECURITY CAMERA LIGHT POLES ARE LOCATED FURTHER THAN 400 FEET FROM THE FIRST PULL BOX, WHICH IS NEXT TO THE BUILDING, EXTEND THE 3" CONDUIT FROM THE FIRST PULL BOX TO A SECOND PULL BOX.
F.A.C. SECURITY CAMERA LIGHT POLE SHALL HAVE A 2" CONDUIT FROM THE NEAREST PAVED AREA PULL BOX TO THE LIGHT POLE BASE. JUNCTION BOX. THE CONDUIT SHALL BE CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPYLENE/ETHYLENE 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 CABLE" WARNING, 12" ABOVE CONDUIT. THE 2" LP CAMERA CONDUIT SHALL BE SEPARATED FROM THE ABOVE CONDUIT BY A DIVIDER PLACED IN THE LIGHT POLE BASE JUNCTION BOX.
ALL CHANGES IN DIRECTION OF THE CONDUIT SHALL UTILIZE STANDARD SWEEPS WITH A MINIMUM BENDING RADIUS LISTED IN THE NEC. NO MORE THAN (2) 90-DEGREE BENDS WILL BE ALLOWED BETWEEN PULLING POINTS. OR A TOTAL OF 180 DEGREES COMBINED IN SEVERAL BENDS. PULL BOXES SHALL BE LOCATED EVERY 400 FEET UNLESS THE COMBINED TOTAL OF BENDS REQUIRES ADDITIONAL BOXES.
ALL PULL BOXES LOCATED IN PAVED AREAS SUBJECT TO TRUCK TRAFFIC SHALL BE 14"-20" LOAD RATED. THE TYPICAL PULL BOX SIZE WILL BE 17" X 20" X 24" QUARTER POST/200000 LB. OR APPROXIMATELY EQUAL. DEEPER BOXES MAY BE REQUIRED WHEN THE CONDUIT ALIGNMENT IS AFFECTED BY OTHER UTILITIES. THE PULL BOX SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION WITH A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL COMPACTED PER PROJECT SPECIFICATIONS.
 - (L) UTILITY BOLLARD.
 - (M) CONTRACTOR SHALL CONTACT WESTERN VIRGINIA WATER AUTHORITY (WVWA) TO PAY ALL METER AND TAP FEES. AFTER TAP FEES ARE PAID TO WVWA, CONTRACTOR SHALL CALL CLEAR FLOW AT 540-942-3500 TO COORDINATE AND ORDER METER WALL. CONTRACTOR SHALL COORDINATE WITH METER AND BACKFLOW PREVENTER. CONTRACTOR SHALL INSTALL PRE-ASSEMBLED VAULT AND CONNECT TO PROPOSED WATERLINES ENTERING AND EXITING VAULT. THE CONTRACTOR SHALL PAY ALL FEES REQUIRED FOR THE DELIVERY AND INSTALLATION OF VAULT, METER, AND BACKFLOW PREVENTER.
 - (N) REMOTE FIRE DEPARTMENT CONNECTION (FDC).

- ### PROPOSED UTILITY PLAN LEGEND
- UGE—ELECTRICAL CONDUIT
 - UGT—TELEPHONE CONDUIT
 - SC—SECURITY CAMERA CONDUIT
 - 8"SS—SANITARY SEWER PIPE
 - 8"W—WATER MAIN PIPE
 - 12"W—WATER MAIN PIPE
 - 3"W—DOMESTIC WATER PIPING
 - 2"W—IRRIGATION WATER PIPING
 - GAS—GAS PIPE
 - TS—TAMPER SWITCH CONDUIT
 - IC—IRRIGATION CONTROLLER CONDUIT
 - FDC—FIRE DEPARTMENT CONNECTION
 - TAPPING SLEEVE & VALVE
 - WATER VALVE
 - FIRE HYDRANT
 - THRUST BLOCK
 - SANITARY SEWER MANHOLE
 - POWER POLE
 - GAS METER

REFER TO ROADWAY PLANS FOR EROSION CONTROL IN ROAD RIGHTS OF WAY.



Project Title
Walmart SUPERCENTER #1301-02
© CLEARBROOK VILLAGE SHOPPING CENTER
ROANOKE COUNTY, VIRGINIA
BY: WAL-MART REAL ESTATE BUSINESS TRUST
BENTONVILLE, AR

REVISIONS		BY
ADDENDUM 5	10/14/09	BGL
VDOT & COUNTY COMMENTS, CDD #1	10/27/09	BGL

DRAWN BY RD
CHECKED BY BGL
DATE 9/21/2009
SCALE 1" = 60'
JOB No. 08-203
SHEET NAME

IF YOU DIG IN VIRGINIA...
CALL US FIRST!
811 OR 1-800-552-7001
THE CONTRACTOR OR HIS REPRESENTATIVE SHALL ENSURE HE HAS A VALID LOCATOR TICKET AT ALL TIMES.