

UTILITY LEGEND

- (A)** EXISTING LIGHT POLE, BASE & ASSOCIATED WIRING TO BE REMOVED & DISPOSED OF. ABANDON & PLUG ENDS OF EXISTING CONDUIT WATERTIGHT. (TYP. OF ALL EX. LIGHTS)
- (B)** EXISTING LIGHT POLE, BASE & ASSOCIATED WIRING TO BE REMOVED & DISPOSED OF BY OTHERS.
- (C)** NEW 39 FT. LIGHT POLE w/ FIXTURES & LUMINATES OF TYPE INDICATED TO BE MOUNTED ON CONCRETE PEDISTALS (SEE DETAIL) 3 FT. ABOVE FINISHED GRADE, FOR A TOTAL MOUNTING HEIGHT OF 42'.
- (D)** 2-2" CARLON TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 2" PVC SCH-40 CONDUIT. PROVIDE & INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLETHYLENE ROPE w/ A MINIMUM PULLING TENSION OF 100 LBS. IN EACH CONDUIT. MINIMUM BURIAL DEPTH SHALL BE 24". PROVIDE & INSTALL ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED FIBER OPTIC" WORDING 12" ABOVE THE CONDUIT. USE LONG FACTORY NOT STANDARD, SWEEPS FOR CHANGES IN DIRECTION. MARK ENDS OF CONDUIT.
- (E)** 1-4" PVC SCH-40 ELECTRICAL GRADE CONDUIT. PROVIDE & INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLETHYLENE ROPE w/ A MINIMUM PULLING TENSION OF 100 LBS. IN EACH CONDUIT. MINIMUM BURIAL DEPTH SHALL BE 24". PROVIDE & USE LONG FACTORY, NOT STANDARD, SWEEPS FOR CHANGES IN DIRECTION. MARK ENDS OF CONDUIT.
- (F)** H-20 LOAD RATED PULL BOX. MINIMUM SIZE SHALL BE 18"x24"x24". INSTALL PULL BOX PER MANUFACTURER'S SPECIFICATIONS w/ A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL COMPACTED PER THE PROJECT SPECIFICATIONS. CONDUITS SHALL ENTER THE PULL BOX 180 DEGREES APART.
- (G)** 2-5" PVC SCH-40 ELECTRICAL GRADE CONDUIT. PROVIDE & INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLETHYLENE ROPE w/ A MINIMUM PULLING TENSION OF 100 LBS. IN EACH CONDUIT. MINIMUM BURIAL DEPTH SHALL BE 24". PROVIDE & USE LONG FACTORY, NOT STANDARD, SWEEPS FOR CHANGES IN DIRECTION. MARK ENDS OF CONDUIT.
- (H)** 10-5" PVC SCH-40 ELECTRICAL GRADE CONDUIT. PROVIDE & INSTALL GALVANIZED PULL WIRE OR PURPLE PROPYLETHYLENE ROPE w/ A MINIMUM PULLING TENSION OF 100 LBS. IN EACH CONDUIT. MINIMUM BURIAL DEPTH SHALL BE 24". PROVIDE & USE LONG FACTORY, NOT STANDARD, SWEEPS FOR CHANGES IN DIRECTION. MARK ENDS OF CONDUIT.

SAM'S CLUB #8220-00 L-L-128E-TL EXISTING 107,432 S.F. (APPROX.) PROPOSED 135,460 S.F. (APPROX.) F.F.E.=1154.51

EXPANSION 28,028 S.F.

SITE UTILITY NOTES

- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
- SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- SANITARY SEWER PIPE AND MANHOLE 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
 - MANHOLES SHALL BE PRECAST CONCRETE W/BOOTS (TRAFFIC MODEL RING & COVER)
- WATERLINES SHALL BE AS FOLLOWS:
 - A. 4" AND LARGER SHALL BE C-900 CLASS 150 PVC PER ASTM 2241. VALVES SHALL BE M&H RESILIENT SEAT AND M.J. GATE VALVES.
 - B. ALL FIRE HYDRANTS SHALL BE M&H MODEL 129 (3 WAY) (BRASS SEAT) 4 1/2" VALVE OPENING, 3 1/2" BURY, M.J. FOOT, 2-2 1/2 HOSE NOZZLES, 1-4 PLUMPER NOZZLE.
- ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.)
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- 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).
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITH WATER TIGHT LIDS.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY OF ROANOKE, DIVISION OF UTILITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- 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.
- 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.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATION AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- THE INSTALLATION OR REPAIR OF ANY UNDERGROUND FACILITIES OR PIPING WHICH CONNECTS TO OR FURNISHES WATER FOR THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE PERFORMED ONLY BY A LICENSED UTILITY CONTRACTOR, FIRE PROTECTION SPRINKLER CONTRACTOR, OR LICENSED PLUMBER. SEE O.C.G.A. TITLE 26-11-7-(c). A COPY OR CERTIFICATE OF COMPETENCY SHALL BE PROVIDED TO THE INSPECTOR AT THE FINAL INSPECTION.
- UTILITY WORK TO BE DONE IN FRONT OF STORE TO BE COORDINATED WITH WAL-MART CONSTRUCTION MANAGER. FRONT UTILITY WORK WILL BE DONE AT NIGHT IF NOT LOCATED BEHIND CONSTRUCTION FENCE.
- CONTRACTOR TO RELOCATE LIGHT POLE AND REPLACE LUMINAIRES AS INDICATED. CONTRACTOR TO BUILD NEW POLE BASE AND STUB WIRE AS NEEDED.
- REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING ELECTRICAL DESIGN & LAYOUT.

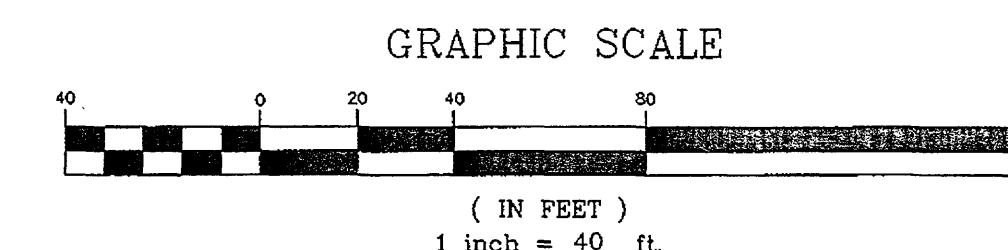
NOTES:

- PIPE LENGTHS LISTED ARE BASED ON HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND USED FOR DESIGN. CONTRACTOR TO FIELD VERIFY ACTUAL PIPE LENGTHS NEEDED FOR CONSTRUCTION.
- SEE ALSO DEMOLITION PLAN FOR DETAIL OF REMOVAL AND/OR MODIFICATION OF EXISTING UTILITIES.

GOLDEN CORRAL

TOWNE SQUARE BOULEVARD

RUTGERS STREET

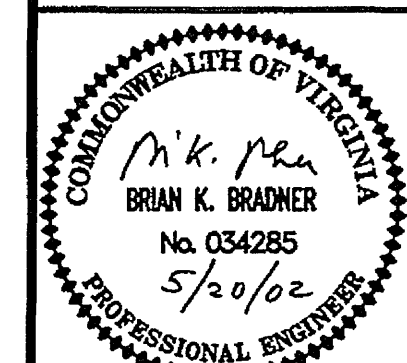


BENCHMARK:
CHISELED SQUARE ON DROP INLET
ON TOWN SQUARE BOULEVARD
ELEVATION=1142.75'

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WAL-MART STORES, INC.
ROANOKE, VIRGINIA

UTILITY
PLAN



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