

**811**  
Know what's below.  
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SCALE IN FEET  
0 30 45 60

**GENERAL UTILITY NOTES**

1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES 72 HOURS BEFORE CONNECTING TO ANY EXISTING UTILITY.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:  
ALL DRAIN/SANITARY SEWER LINES SHALL BE PVC ASTM D3033 OR D3034 WITH 36 INCHES OF MINIMUM COVER.  
ALL FORCE MAIN SANITARY SEWER LINES SHALL BE PVC AWWA C900, CLASS 150, MANUFACTURED IN THE UNITED STATES AND MEET REQUIREMENTS OF ASTM D-2241 WITH 36 INCHES OF MINIMUM COVER.
4. WATER LINES SHALL BE AS FOLLOWS:  
WATER LINES 8" AND SMALLER SHALL BE PVC SCHEDULE 40, BEAR THE NATIONAL FOUNDATION SEAL, FOR POTABLE WATER PIPE MARKED WITH SD1 AND CLASS NUMBER, AND MEET THE REQUIREMENTS OF ASTM D 1785, LATEST REVISION WITH 30 INCHES OF MINIMUM COVER.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. WATER AND SANITARY SEWER SHALL HAVE MINIMUM TEN FEET HORIZONTAL CLEARANCE (PARALLEL, OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE).
7. ALL UTILITIES SHALL HAVE MINIMUM 18 INCHES VERTICAL CLEARANCE (OUTSIDE EDGE TO OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE).
8. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18 INCHES CLEARANCE MEETING REQUIREMENTS OF ANSI A21.10 (OR ANSI A21.11 (AWWA C-151) (2/2005 50).
9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
10. WHEN IN PAVED AREAS, TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND WHEN IN UNPAVED AREAS, TOPS SHALL BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
11. ALL CONCRETE FOR ENCASUREMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
13. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
15. 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.
16. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
17. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
18. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
19. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
20. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
21. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
22. PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND REFER TO DETAIL SHEETS.  
TYPICAL CLEANOUT PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS  
PRECAST CONCRETE MANHOLE GRAVITY AND FORCE MAIN CONNECTION PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS  
TYPICAL BEDDING GRAVITY SEWER LINE PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS  
TYPICAL BEDDING SANITARY SEWER FORCE MAIN PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS
23. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS: ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER UTILITY TRENCH & BEDDING DETAIL, REF. DETAIL SHEETS.

**EXISTING LEGEND**

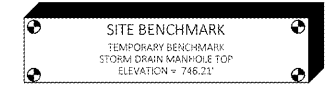
PROPERTY LINE	---
ADJACENT PROPERTY LINE	---
EASEMENT LINE	---
WOODS LINE	---
UNDERGROUND POWER	---
BUILDING SETBACK LINE	---
LANDSCAPE BUFFER LINE	---
EXISTING CONTOUR LINE	---
UNDERGROUND POWER LINE	---
SANITARY SEWER LINE	---
STORM SEWER LINE	---
HCM PIN FOUND (SIZE AND TYPE AS NOTED)	⊗
1/2" REBAR W/ CAP SET	⊕
NAIL & DISK SET	⊕
LIGHT POLE	⊕
STORM MANHOLE	⊕
DRIP INLET	⊕
SANITARY MANHOLE	⊕
CLEANOUT	⊕
SPOT ELEVATION	⊕
SCHEDULE B1 EXCEPTION	⊕
STREET ADDRESS	---
ASPHALT	---
CONCRETE	---
GRAVEL	---

**PROPOSED LEGEND**

STORM DRAIN	---
N/S	---
SANITARY SEWER LINE	---
SANITARY SEWER FORCE MAIN	---
FM	---
UGE	---
K'W	---
FDC	---
FIBER OPTIC CABLES / TELEPHONE CONDUITS	---

**UTILITY LEGEND**

A	IRRIGATION WATER METER PER HAMMOND WATER DISTRICT REQUIREMENTS, REF IRRIGATION PLANS FOR BACKFLOW PREVENTER LOCATION.
B	FIBER OPTIC CONDUIT TO FUEL STATION.
C	TWO 2" CONDUITS FOR FIBER OPTIC CABLES AND TELEPHONE LINES REQUIRED FROM BUILDING TO GAS LOT AS NECESSARY, COORDINATE WITH CURRENT UGP. THE CONDUITS SHALL BE 2" DIAMETER CARLIN TYPE "DB" DIRECT BURIAL TELEPHONE DUCT OR 2" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE PROPOL-POLYETHYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS IN EACH CONDUIT. THE MINIMUM BURIAL DEPTH SHALL BE 24" . INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL BURIED FIBER OPTIC CABLE WRAPPING, 12" ABOVE THE CONDUITS.
D	CONTRACTOR SHALL COORDINATE TRENCH CONSTRUCTION WITH STORE MANAGER TO LIMIT DISTURBANCE TO STORE OPERATIONS.
E	ASPHALT STREET OR DRIVE CUT / REPAIR, REF DETAIL SHEET.
F	PROPOSED LOCATION OF TRANSFORMER. 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. FINAL LOCATION OF TRANSFORMER AND BOLLARD CANNOT CONFLICT WITH TRUCK ACCESS TO UNDERGROUND STORAGE TANKS.
G	FIBER OPTIC AND TELEPHONE POINT OF CONNECTION, EXACT LOCATION AS SPECIFIED BY ARCHITECT.
H	LOCATION FOR THIS UTILITY AS SHOWN IS FOR DRAWING PURPOSES ONLY. CONTRACTOR SHALL VERIFY THE EXACT LOCATION IN FIELD PRIOR TO THE CONSTRUCTION OF THE PROPOSED UTILITY LINE TO BE CONNECTED. CONTRACTOR SHALL NOTIFY CEI ENGINEERS IF THE DESIGN AS SHOWN IS NOT ACHIEVABLE.
I	DOMESTIC WATER METER WITH INTERIOR BACKFLOW PREVENTER PER HAMMOND WATER DISTRICT REQUIREMENTS, REF ARCH / MEP PLANS FOR CONTINUATION.
J	POINT OF CONNECTION - ELECTRICAL SERVICE (PER ELECTRIC COMPANY REQUIREMENTS)
K	MAINTAIN 18 INCHES VERTICAL SEPARATION.
L	VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTION OF PROPOSED UTILITY.
M	POINT OF CONNECTION - DOMESTIC WATER SERVICE PER HAMMOND WATER DISTRICT REQUIREMENTS
N	LIFT STATION POWER AND MONITORING CONDUITS.
T	VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTION OF PROPOSED UTILITY.
U	SANITARY SEWER SERVICE CONNECTION PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS
V	LIFT STATION, REF SHEET LSD-1
W	TYPICAL CLEANOUT PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS
X	PRECAST CONCRETE MANHOLE GRAVITY AND FORCE MAIN CONNECTION PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS
Y	TYPICAL BEDDING GRAVITY SEWER LINE PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS
Z	TYPICAL BEDDING SANITARY SEWER FORCE MAIN PER CITY OF ANDERSON STANDARD DRAWINGS, REF DETAIL SHEETS



**ALERT TO CONTRACTOR:**  
ALL SAMS CLUB GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

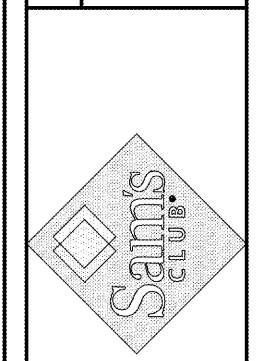
**REVISIONS**

NO.	DATE	DESCRIPTION

**CEI**  
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SAMS CLUB FUEL STATION #663-502  
UTILITY PLAN  
3812 LIBERTY HWY #6  
ANDERSON SOUTH CAROLINA



INITIAL DESIGN	11/7/19		
DATE	11/7/19		
JDG	JPD	JAP	DV
DPOR	PM	DES	DRW

NOTE: SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOCKS, BUILDING UTILITY ENTRANCE LOCATIONS AND PRECISE BUILDING DIMENSIONS.	
JOB NO.: 31076	SHEET NO.
DWG NAME: 31076-UP	C6
DATE: 11/7/19 8:59 AM	

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