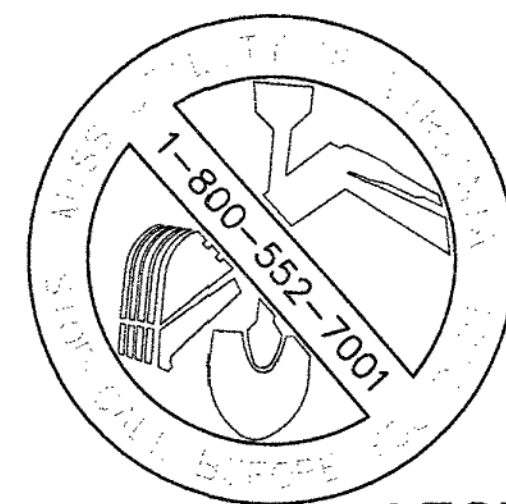


BM: BENCHMARK #1
CHISELED SQUARE ON TOP OF
CONCRETE BASE FOR LIGHT POLE
ELEVATION: 1051.74
LATITUDE: N37° 19' 26.95"
LONGITUDE: W79° 52' 19.66"

Water: Existing, is per plan.



LEGEND

EXISTING	
CHDPE	CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE
MH	MANHOLE
ICV	IRRIGATION CONTROL VALVE
WM	WATER METER
RCP	REINFORCED CONCRETE PIPE
BM	BENCHMARK
CP	CONTROL POINT

PROPOSED LEGEND	
---	BOUNDARY LINE
SAN>	SANITARY SEWER SERVICE
UE	UNDERGROUND ELECTRIC SERVICE
T	UNDERGROUND TELEPHONE SERVICE
1-1/4"W	WATER SERVICE
CF	CONSTRUCTION FENCE (SEE CIVIL DETAILS)

GENERAL UTILITY NOTES

- ALL BUILDING WATER LINES FROM METER TOWARDS BUILDING SHALL BE SCHEDULE 40 PVC MEETING ASTM D1785 & D2665 SPECIFICATIONS, AND SHALL BE RATED FOR USE WITH POTABLE WATER PER NSF STD. 61 & STD.14, WITH 36" MIN. COVER.
- ALL SANITARY SEWER LINES SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, PROVIDE 36" MINIMUM COVER.
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- 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.
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM GREENBERGFARROW ENGINEERS AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF (72) HOURS PRIOR TO CONSTRUCTION. ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- CONTRACTOR SHALL COMPLY COMPLETELY 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 IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- BUILDING WILL NOT BE SPRINKLERED.
- ANTICIPATED STATIC PRESSURE AT METER: 120 TO 130 PSI
- CONTRACTOR MUST EXCAVATE AND UNCOVER THE WMAW SEWER MAIN IN THE VICINITY OF THE PROPOSED SERVICE CONNECTION. FOLLOWING EXCAVATION AND PROPER SHORING PER OSHA REGULATIONS, WMAW WILL INSTALL THE SERVICE TAP ON THE SEWER MAIN, WITHIN TWO (2) WORKING DAYS OF NOTIFICATION.

UTILITY NOTES

- 18E POINT OF RELOCATION
- 19A EXISTING TO REMAIN
- 22A POINT OF CONNECTION - WATER SERVICE (PER LOCAL CODES)
- 22L METERED DOMESTIC WATER SERVICE ENTRY
- 22M PROPOSED WATER METER (SEE SIZE THIS SHEET)
- 22N SEWER DUCT METER (SEE LAYOUT DETAIL ON SHEET C-17)
- 23L CONNECT GREASE TRAP VENT TO BUILDING VENT SYSTEM. GREASE TRAP VENT INVERT MUST BE HIGHER THAN INLET INVERT.
- 25A POINT OF CONNECTION FOR UNDERGROUND TELEPHONE
- 300 VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTING PROPOSED UTILITY

UTILITY DETAILS - SEE DETAIL SHEETS

- 30C STEEL CASING FOR UTILITY PER WMAW DETAIL
- 39C SANITARY SEWER DROP MANHOLE (INSDC) (PER WESTERN VIRGINIA REGIONAL STANDARD)
- 39G SANITARY SEWER GREASE TRAP
- 40B SANITARY SEWER WYE CONNECTION
- 40C SANITARY SEWER CLEAN-OUT (PER WESTERN VIRGINIA REGIONAL STANDARD)
- 41G REDUCED PRESSURE ZONE BACKFLOW PREVENTER. CONTRACTOR TO VERIFY TYPE (ABOVE/GROUND) PRIOR TO COMMENCING CONSTRUCTION.
- 42B SANITARY SEWER TRENCHING AND BEDDING.

UTILITY CONTACT INFORMATION

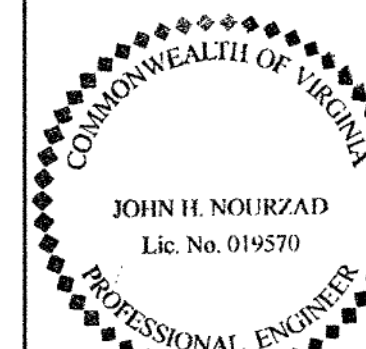
ELECTRIC	WATER AND SEWER
APPALACHIAN POWER ROANOKE, VA 24018 PHONE: (800) 956-4237	WESTERN VIRGINIA WATER AUTHORITY ROANOKE, VA 24018 (540) 853-5700

UTILITY INSTALLATION RESPONSIBILITIES

- WATER SERVICE:**
- WATER COMPANY TO INSTALL IRRIGATION SEWER DUCT METER.
 - CONTRACTOR TO INSTALL ALL WATER LINE APPURTENANCES UP TO THE METER, INCLUDING BACKFLOW PREVENTERS.
- POWER SERVICE:**
- ELECTRIC COMPANY PROVIDES SERVICE MATERIALS AND INSTALLS SERVICE LINES INCLUDING A TRANSFORMER UP TO THE PROPOSED TRANSFORMER PAD.
- CONTRACTOR IS RESPONSIBLE FOR SERVICE CONSTRUCTION FROM TRANSFORMER PAD TO BUILDING PER ELECTRIC COMPANY SPECIFICATIONS.
- CONTRACTOR TO PROVIDE A CONCRETE TRANSFORMER PAD PER ELECTRIC COMPANY SPECIFICATIONS.
- CONTRACTOR TO TRENCH AND INSTALL CONDUIT, ELECTRIC COMPANY TO PULL PRIMARY WIRE, CONTRACTOR TO BACK-FILL.

SHEET NO.

C-6



JAN 11 2016

UTILITY PLAN
WALMART SUPERCENTER #3243
4530 CHALLENGER AVENUE
ROANOKE VIRGINIA

GreenbergFarrow

1430 W. PEACH STREET, NW SUITE 200
ATLANTA, GA 30309
PHONE: (404) 601 4000
FAX: (404) 601 2970
DWG NO: 20150420
JOB NO: 20150420

MURPHY OIL USA, INC.

MURPHY 200 PEACH STREET
P.O. BOX 7000
USA EL DORADO, AR 71730-7000

1. THE MURPHY STATION WILL NOT DROP THE WAL-MART GREEN SPACE BELOW COUNTY REQUIREMENTS.
2. ALL PERMANENT TURF AREAS MUST BE SODED.
3. GC TO ENSURE THAT TRAFFIC THROUGH MAIN WAL-MART DRIVES IS NOT INTERRUPTED AT ANY TIME DUE TO CONSTRUCTION ACTIVITIES. ENSURE A MINIMUM TEMPORARY LAKE WIDTH OF 10' (EACH DIRECTION) IS AVAILABLE AT ALL TIMES. FREE OF OBSTRUCTIONS TO VEHICLES. AT NO TIME SHALL THE CONSTRUCTION FENCE EXTEND INTO THE DRIVE MORE THAN 2' FROM THE FACE OF THE CURB OR DRIVE.
4. IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE WAL-MART TRAFFIC FLOW OR ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH THE WAL-MART CONSTRUCTION/STORE MANAGER AND/OR ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING DOT APPROVED TRAFFIC BARRICADES, BARRELS AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
5. ALL WAL-MART PROPERTY DAMAGED DUE TO CONSTRUCTION ACTIVITIES MUST BE REPLACED/RESTORED TO MATCH THE EXISTING TYPE AND QUALITY OF WORK AND MATERIALS, AND IS SUBJECT TO WAL-MART APPROVAL.
6. UTILITY WORK DONE ON WAL-MART PARCEL, WHETHER BY THE GC, COUNTY OR THE UTILITY COMPANIES, SHALL BE REPAIRED BACK TO EXISTING CONDITIONS.
7. EROSION CONTROL MEASURES IMPLEMENTED INSIDE THE WAL-MART DRIVE ISLES AND PARKING LOT SHALL INCLUDE ONLY SILT BASINS (OR WAL-MART PRE-APPROVED EQUAL) TO DISBURSE TRAFFIC CIRCULATION IS NOT IMPEDED. GRAVEL INLET PROTECTION DEVICES SHALL NOT BE ALLOWED INSIDE THE WAL-MART DRIVE ISLES OR PARKING LOT.
8. GC SHALL UTILIZE DIRECTIONAL BORING OR JACK AND BORE METHODS TO INSTALL ALL UTILITIES THROUGH THE WAL-MART PARKING LOT, ANY PAVED AREAS OR DRIVE ISLES.

CHALLENGER AVENUE

Sewer Info:

Pipe: 6" North American SDR-26 PVC
Manhole: CP&P pre-cast
F&C: East Jordan, watertight

SEWER TAP BY WATER AUTHORITY (A1)
INV. IN 996.93 (S)(8")
INV. IN 996.93 (W)(6")
INV. OUT 996.93 (N)(8")

EX. SAN. SEWER MANHOLE
(PER WATER/SEWER AS-BUILT PREPARED
BY MATTERN & CRAIG, DATED 10/16/02)
RIM 1005.51
INV. IN 998.21 (SW)(8")
INV. OUT 998.21 (N)(8")

SEWER LINE INFORMATION ADDED PER
WATER/SEWER AS-BUILT PREPARED
BY MATTERN & CRAIG,
DATED 10-16-2002

EX. SAN. SEWER MANHOLE
(PER WATER/SEWER AS-BUILT PREPARED
BY MATTERN & CRAIG, DATED 10/16/02)
RIM 1002.02
INV. IN 994.02 (S)(8")
INV. OUT 986.22 (E)(8")

1000 GAL. GREASE TRAP (A8)
RIM 1051.17
SUMP 1044.40
INV. IN 1046.68 (NE)(6")
INV. OUT 1046.51 (SW)(6")

SAN. MH (INSIDE DROP) (A2)
STANDARD COVER
RIM 1008.00
INV. IN 1003.49 (W)(6")
INV. OUT 999.60 (E)(6")

23 LF 6" PVC (SDR26) @ 11.86%

EX. SAN. SEWER MANHOLE
(PER WATER/SEWER AS-BUILT PREPARED
BY MATTERN & CRAIG, DATED 10/16/02)
RIM 1005.51
INV. IN 998.21 (SW)(8")
INV. OUT 998.21 (N)(8")

As-Built Substantial Completion 12.13.16 K. Winslow