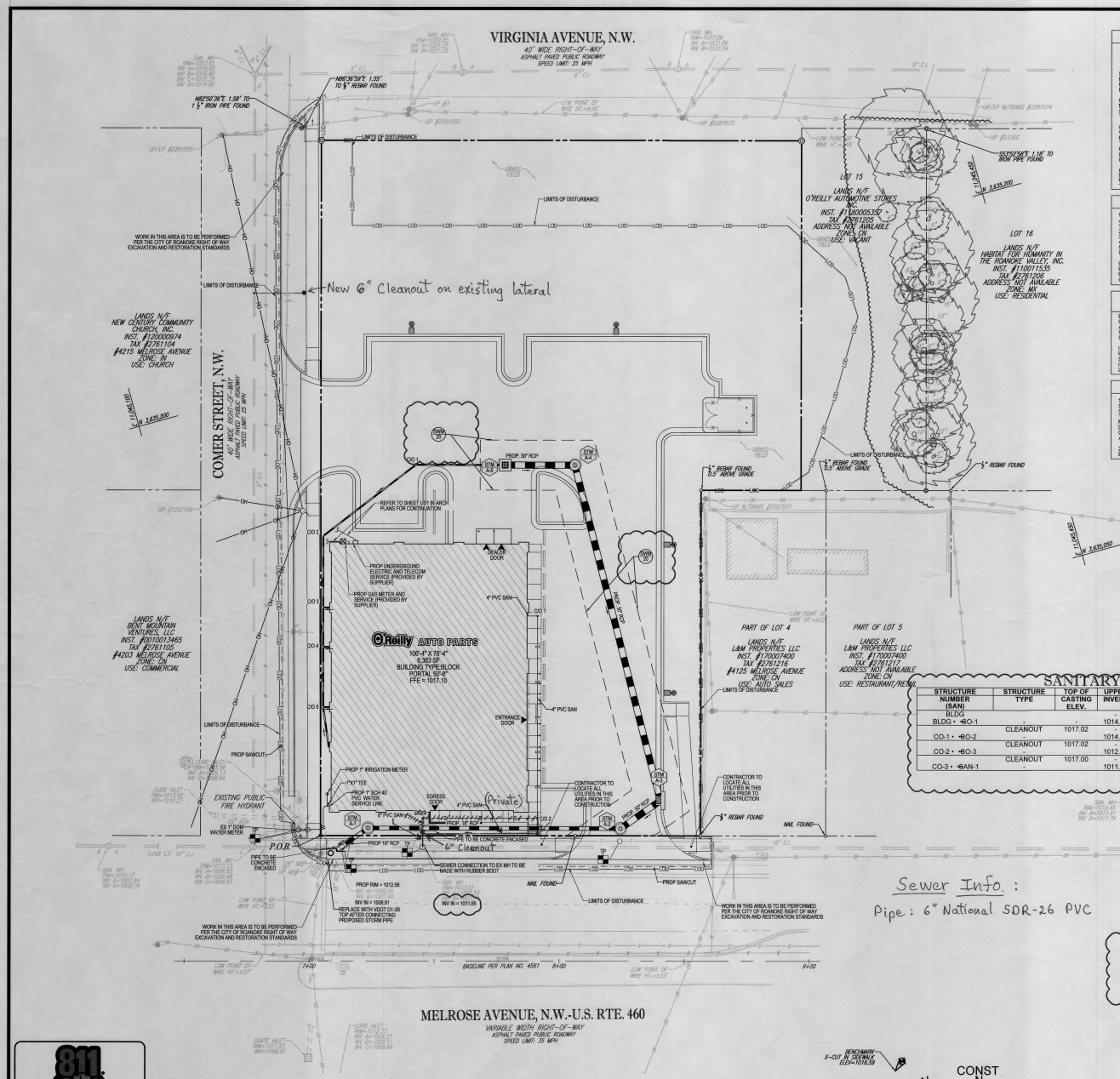


TELEPHONE SERVICE REQUIREMENTS:

SPECIAL NOTE: NEW SERVICE TO BUILDING SHALL BE AN UNDERGROUND SERVICE. CONTRACTOR SHALL SCHEDULE INSTALLATION OF U/G TELEPHONE SERVICE CONDUIT WITH OWNER.

SCHEDULE 40 PVC CONDUIT WITH RIGID GALVANIZED STEEL LONG SWEEP BENDS @ 18"-24" DEPTH FOR PHONE SERVICE. PROVIDE MINIMUM 1/4" POLYPROPYLENE PULL LINE. PLACE CONDUIT A MINIMUM OF 12" FROM U/G ELECTRICAL CONDUITS IN SAME TRENCH.

CAP CONDUIT AT PROPERTY LINE BELOW FINISHED GRADE AND INSTALL CABLE MARKER FOR PHONE COMPANY. IF NECESSARY, OTHERWISE, CONTINUE PHONE SERVICE CONDUIT TO BUILDING AND INSTALL A PROPERLY GROUNDED STEEL CONDUIT TO A MINIMUM 10' ABOVE FINISH GRADE, ATTACHED TO POLE.

CONTRACTOR SHALL COORDINATE INSTALLATION AND VERIFY REQUIREMENTS WITH PHONE COMPANY, PLUS INCLUDE ALL FEES (IF ANY) BY PHONE COMPANY FOR INSTALLATION OF NO LESS THAN 10 PAIR CABLE, IN MENTIONED CONDUIT, TO CONTRACTOR INSTALLED 4'x8'x3/4" BACKBOARD WITHIN BUILDING. CONTRACTOR SHALL PROVIDE #6 AWG CU. GROUND TO TELEPHONE EQUIPMENT LOCATION, FROM ELECTRICAL GROUNDING ELECTRODE SYSTEM. FINAL CONNECTIONS AND INSIDE PHONE WIRING BY OWNER.

ONLY IF UNDERGROUND PHONE SERVICE IS NOT AVAILABLE, THEN MAY CONTRACTOR INSTALL APPROPRIATE OVERHEAD PHONE SERVICE RISER, WEATHERHEAD, ETC. COORDINATE WITH OWNER AND PHONE CO.

SAWCUT NOTE:

WHERE NEW UTILITY SERVICES ARE ROUTED UNDER EXISTING PAVED AREAS, ALL EXISTING PAVING SHALL BE REMOVED IN THE FOLLOWING STEPS:
1) SAWCUTTING PAVING
2) REMOVAL AND TRENCHING
3) INSTALLATION OF UTILITY
4) BACKFILL AND COMPACTION
5) INSTALLATION OF NEW PAVING THAT MATCHES THE EXISTING SURROUNDING PAVING IN BOTH MATERIAL AND ELEVATION.

CONTRACTOR SHALL COORDINATE, OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES TO PERFORM THIS WORK AND SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL WHILE PERFORMING SAWCUTTING OPERATIONS AS NECESSARY.

CONTRACTOR CAUTION!! VERIFY SEWER LINE ELEVATION

BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL, CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE LINE OR MAIN.

IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

EXISTING CONDITIONS NOTES:

1. EXISTING INSTALLATIONS (SUCH AS WATER MAINS/LINES, GAS MAINS/LINES, SEWER MAINS/LINES, TELEPHONE LINES, POWER LINES, AND UTILITY STRUCTURES IN THE VICINITY OF THE WORK TO BE DONE) ARE INDICATED ON THE DRAWINGS ONLY TO THE EXTENT THAT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR IS FOR THE ACCURACY AND COMPLETENESS THEREOF IS EXPRESSLY DISCLAIMED.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING ALL EXISTING INSTALLATIONS.

GRAVEL CROSSING NOTE:

WHERE NEW UTILITY SERVICES ARE ROUTED UNDER EXISTING GRAVEL AREAS, ALL EXISTING GRAVEL SHALL BE REMOVED IN THE FOLLOWING STEPS:

1) REMOVAL & TRENCHING
2) INSTALLATION OF UTILITY
3) BACKFILL & COMPACTION
4) INSTALLATION OF NEW GRAVEL THAT MATCHES THE EXISTING SURROUNDINGS IN BOTH MATERIAL AND ELEVATION.

CONTRACTOR SHALL COORDINATE, OBTAIN & PAY FOR ALL REQUIRED PERMITS & LICENSES TO PERFORM THIS WORK & SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL.

SANITARY SCHEDULE

STRUCTURE NUMBER (SAN)	STRUCTURE TYPE	TOP OF CASTING ELEV.	UPPER INVERT	LOWER INVERT	PIPE LENGTH (FEET)	PIPE SIZE/ TYPE	PERCENT SLOPE
BLDG	-	-	-	-	-	-	-
BLDG • -CO-1	-	-	1014.50	1014.40	4.20	4" / PVC	2.38%
CO-1 • -CO-2	CLEANOUT	1017.02	-	-	-	-	-
	-	-	1014.40	1012.75	80.67	4" / PVC	2.05%
CO-2 • -CO-3	CLEANOUT	1017.02	-	-	-	-	-
	-	-	1012.75	1011.80	45.66	4"/ PVC	2.08%
CO-3 • -SAN-1	CLEANOUT	1017.00	-	-	-	-	-
	-	-	1011.80	1011.65	11.47	6" / PVC	1.31%

TEST PIT NOTE:

CONTRACTOR TO TEST PIT FOR EXACT LOCATION OF EXISTING UTILITY AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING PRIOR TO CONSTRUCTION.

CITY OF ROANOKE NOTES:

1. PER HYDRANT FLOW TEST PERFORMED BY ROANOKE CITY FIRE DEPT, THE CALCULATED FLOW AT 20 PSI WAS 3,821 GPM.

GENERAL NOTES

(A) BRANCH CIRCUIT CONDUCTOR SIZES ARE INCREASED, TO ALLOW FOR VOLTAGE DROP.

(B) CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES, USING UTILITY COMPANY CONTACT INFORMATION GIVEN. COORDINATE FOR ALL UTILITY WORK SHOWN. GIVE UTILITY COMPANIES NOTICE OF CONSTRUCTION START DATE AND ESTIMATED COMPLETION DATE.

(C) GENERAL CONTRACTOR SHALL CONFIRM THAT LIGHT POLES, LANDSCAPING AND UTILITIES DO NOT CONFLICT WITH SIGN LOCATION SHOWN. IF ANY POTENTIAL CONFLICT IS DISCOVERED, GENERAL CONTRACTOR SHALL CONTACT THE O'REILLY PROJECT ADMINISTRATOR BEFORE PROCEEDING.

(D) REFER TO SHEETS C4.2, C4.3 AND C4.4 FOR ADDITIONAL UTILITY DETAILS.

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND

NEW UTILITIES

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

- —W— WATER SERVICE
- —S— SANITARY SEWER
- STORM SEWER
- —E— U/G ELECTRIC
- —T— U/G PHONE (BY PHONE CO.)
- — OH — OVERHEAD ELECTRIC
- CONNECTING TO EXISTING
- —G— GAS SERVICE (BY GAS CO.)
- SAW CUT

P.O.C. = POINT OF CONNECTION BETWEEN SITE PIPING (SPEC 33 00 00) AND BUILDING PIPING (SPEC 22 00 00, 21 13 13). AS NECESSARY - SPEC 22 00 00 DENOTES CONDITIONS OTHERWISE.

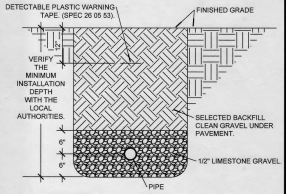
SWM 20 — 20' STORMWATER EASEMENT

PLAN REFERENCES

- REFER TO GENERAL NOTES SHEET FOR GRADING & UTILITY NOTES
- THIS PLAN TO BE UTILIZED FOR SITE UTILITY PURPOSES ONLY

UTILITY COMPANY CONTACTS

ELECTRIC:	APPALACHIAN POWER (888) 710-4237
TELEPHONE:	VERIZON (540) 362-4836
GAS:	ROANOKE GAS (540) 777-0623
WATER:	WESTERN VIRGINIA WATER AUTHORITY (540) 853-5700
SEWER:	WESTERN VIRGINIA WATER AUTHORITY (540) 853-5700



2 / C4.1 PIPE INSTALLATION DETAIL
NO SCALE

BOHLER ENGINEERING
38 BLACKWELL PARK LANE, SUITE 201 WARRENTON, VA 20186
PHONE: (540) 349-4500 FAX: (540) 349-0321

PROJECT No.: V183202 | SCALE: AS NOTED
DRAWN BY / CHECKED BY: DSH/JQR | CAD I.D.: SS2

COMMONWEALTH OF VIRGINIA
JONATHAN PAUL MILLER
Lic. No. 052544
7/17/19
PROFESSIONAL ENGINEER

CRAIG A. SCHNEIDER, AIA
ARCHITECT
1736 East Sunshine, Suite 417
Springfield, Missouri 65804
417.862.0558
Fax: 417.862.3265
e-mail: architect@estertyschneider.com

PROJECT:
NEW O'REILLY AUTO PARTS STORE
MELROSE AVENUE, N.W.
ROANOKE, VA #1

SITE UTILITY PLAN

O'Reilly AUTO PARTS
CORPORATE OFFICES
233 SOUTH PATTERSON
SPRINGFIELD, MISSOURI 65802
(417) 862-2674 TELEPHONE

COMM #	4278
DATE:	2-1-19
REVISION DATE:	4-18-19
	7-17-19

C4.1

KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast. It's free. It's the law.

1 / C4.1 SITE UTILITY PLAN
SCALE: 1" = 20'

H:\183202\DRAWINGS\PLAN SET\SITE PLAN DOCUMENTS\V183202SS2.DWG PRINTED BY: SSHEIFFIELD 7:17 PM @ 4:13 PM LAST SAVED BY: SSHEIFFIELD

Inspector's As-Builts K. Winslow 11.11.22