

# EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. RETURN EROSION CONTROL MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REFER TO 10C3 FOR SILT FENCE CONSTRUCTION.
7. ALL GRASS SLOPES WHICH EXCEED 4:1 (H:V) SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS TRM 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.

## GENERAL NOTES:

- A. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- B. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- C. FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- D. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

## SITE EXCAVATION REQUIREMENTS:

1. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. REFER TO PROJECT MANUAL.
2. FOLLOW GEOTECHNICAL ANALYSIS RECOMMENDATION FOR SITE EXCAVATION.
3. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.

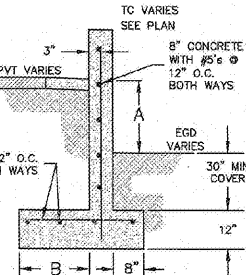
**SPECIAL NOTE:**  
PRIOR TO CONTRACT CLOSEOUT, CONTRACTOR SHALL SECURE THE SERVICES OF A REGISTERED LAND SURVEYOR TO PROVIDE SITE SURVEY OF COMPLETED PROJECT CONDITIONS AND SUBMIT FOR REVIEW AND APPROVAL BY OWNER. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.

## STAGES OF CONSTRUCTION:

1. CONTACT THE CITY OF NORTH CHARLESTON PUBLIC WORKS 48 HRS PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS. MONTH 1
3. INSTALLATION OF CONSTRUCTION ENTRANCE. MONTH 1
4. INSTALLATION OF EROSION CONTROL FENCE. MONTH 1
5. DEMOLITION OF EXISTING SITE IMPROVEMENTS. MONTH 1
6. REMOVAL OF EXISTING PAVEMENT ON THE SITE. MONTH 1
7. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS. MONTH 1
8. ROUGH GRADING. MONTH 1 & MONTH 2
9. CONSTRUCTION OF NEW SITE IMPROVEMENTS. MONTH 2
10. FINAL GRADING. MONTH 3
11. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOG. MONTH 3
12. CONTACT THE CITY OF NORTH CHARLESTON PUBLIC WORKS FOR FINAL INSPECTION FOR CLOSE OUT. MONTH 3
13. REMOVAL OF EROSION CONTROL FENCE. MONTH 3

## STORM WATER RUNOFF SUMMARY:

STORMWATER DESIGNED TO FLOW TO EXISTING STRUCTURE IN ACCESS DRIVE  
 TOTAL PROPERTY AREA= 0.89 ACRES  
 TOTAL DISTURBED AREA= 0.26 ACRES  
 NOI NOT REQUIRED. STORMWATER WILL BE CONTROLLED VIA UNDERGROUND DETENTION

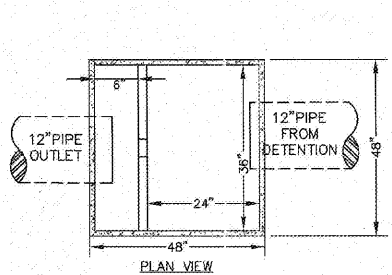


**5 RETAINING CURB**  
SCALE: NOT TO SCALE

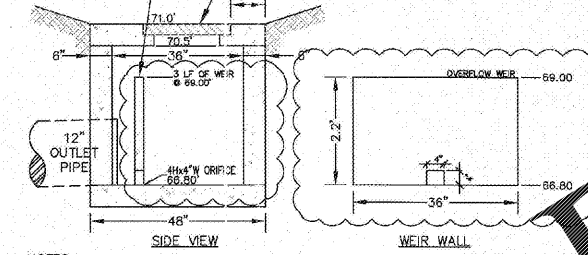
**GENERAL NOTES:**  
 1. ALL CONCRETE TO BE 3,000 PSI.  
 2. ALL REINFORCING BARS TO BE GRADE 60.

## PIPES NOTES:

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), HIGH DENSITY POLYETHYLENE (HDPE) 14-12 CORRUGATED METAL PIPE (CMP) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.



INSTALL 6" THICK WEIR WALL W/ #4'S @ 6" E.W. DOWEL WEIR WALL INTO CONCRETE BOX. NEENAH R-4810 (1.5 SQ.FT. OPEN AREA MIN.) INLET GRATE WITH NEENAH R-4899 ANGLE FRAME.



- NOTES:**
1. SEAL ALL CONNECTIONS WITH NON-SHRINK GROUT.
  2. MIN. #4 BARS @ 12" O.C. EACH WAY (ALL WALLS VERT. & SLAB)
  3. INSTALL 6" THICK WEIR WALL W/ #4'S @ 6" E.W. DOWEL WEIR WALL INTO CONCRETE BOX.
  4. AFTER EACH MAJOR RAINFALL EVENT OWNER MUST INSPECT FOR QUALITY/DETENTION OUTLET FOR SEDIMENT ACCUMULATION AND REMOVE SEDIMENT IF PRESENT.

## 4 4'x4' DETENTION OUTLET

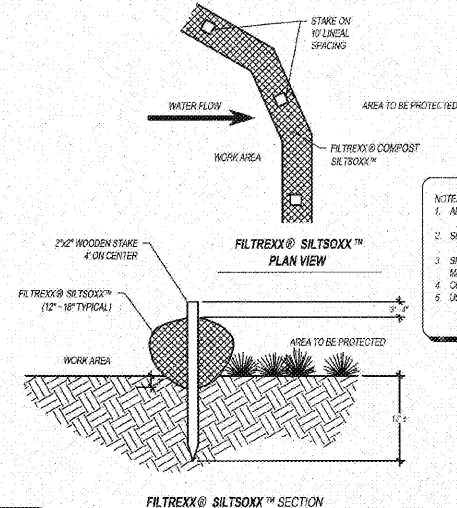
C1.1 SCALE: NOT TO SCALE

## KEY NOTES:

- LIMITS OF TEMPORARY EROSION CONTROL FENCE REFER TO DETAIL C1.1
- C2 INSTALL CONSTRUCTION EGRESS PER NOTES
  - C3 INSTALL 60 LF OF 8" PIPE REFER TO PIPE NOTES
  - C4 INSTALL 4'x4' AREA INLET RIM=71.1 INV=68.8 PER DETAIL C1.1
  - C5 INSTALL 33 LF OF 4" PIPE REFER TO PIPE NOTES
  - C6 INSTALL 4'x4' JUNCTION BOX (NO GRATE) RIM=71.1 INV=68.8 PER DETAIL C1.1
  - C7 INSTALL 60 FT OF 4" PERFORATED DRAIN PIPE. REFER TO SWMPAVE DETAILS ON SHEET C1.2 FOR DEPTH TIE INTO INLET C1.2
  - C8 INSTALL 4'x4' AREA INLET RIM=70.8 INV=68.3 PER DETAIL C1.1
  - C9 INSTALL 108 LF OF 12" DRAIN PIPE. REFER TO PIPE NOTES
  - C10 INSTALL 60 FT OF 4" PERFORATED DRAIN PIPE. REFER TO SWMPAVE DETAILS ON SHEET C1.2 FOR DEPTH TIE INTO INLET C1.2
  - C11 INSTALL 125 LF OF RETAINING WALL PER DETAIL C1.1 CONTRACTOR TO NOTIFY ENGINEER IF WALL NEEDS TO BE SHORTER OR LONGER THAN SHOWN ON PLANS.
  - C12 INSTALL 4'x4' DETENTION OUTLET RIM=71.6 INV=68.8 PER DETAIL C1.1
  - C13 INSTALL 4 LF OF 1" DIAM PIPE PER PIPE NOTES
  - C14 INSTALL 108 FT OF 4" PERFORATED DRAIN PIPE. REFER TO SWMPAVE DETAILS ON SHEET C1.2 FOR DEPTH
  - C15 INSTALL 36 FT OF 4" PERFORATED DRAIN PIPE. REFER TO SWMPAVE DETAILS ON SHEET C1.2 FOR DEPTH
  - C16 INSTALL APPROXIMATELY 2671 SQ. FT. OF SWMPAVE PAVEMENT REFER TO SHEET C1.2 FOR SWMPAVE DETAILS.

## 2 FILTREXX SILTISOXX™

C1.1 NOT TO SCALE

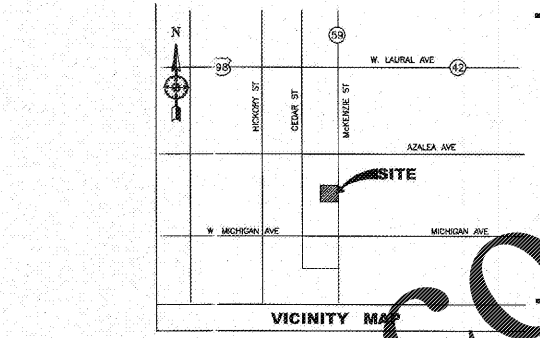


- NOTE:**
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR PER ISM TECHNICAL MANUAL OR ORGANIC FILTER TUBES.
  2. SILTISOXX COMPOSITE SAND/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. SILTISOXX EMPLOYED AS FILL FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE REINFORCING SOCKS PER THE ENGINEER.
  4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
  5. USE OF MULTIPLE SOCKS MUST OVERLAP 10" MINIMUM.

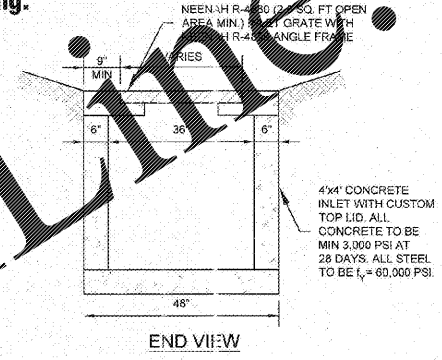
## 3 AREA INLET DETAIL

C1.1 SCALE: NOT TO SCALE

NOTE: MIN. #4 BARS @ 12" O.C. (ALL WALLS VERT, HOR, & SLAB)



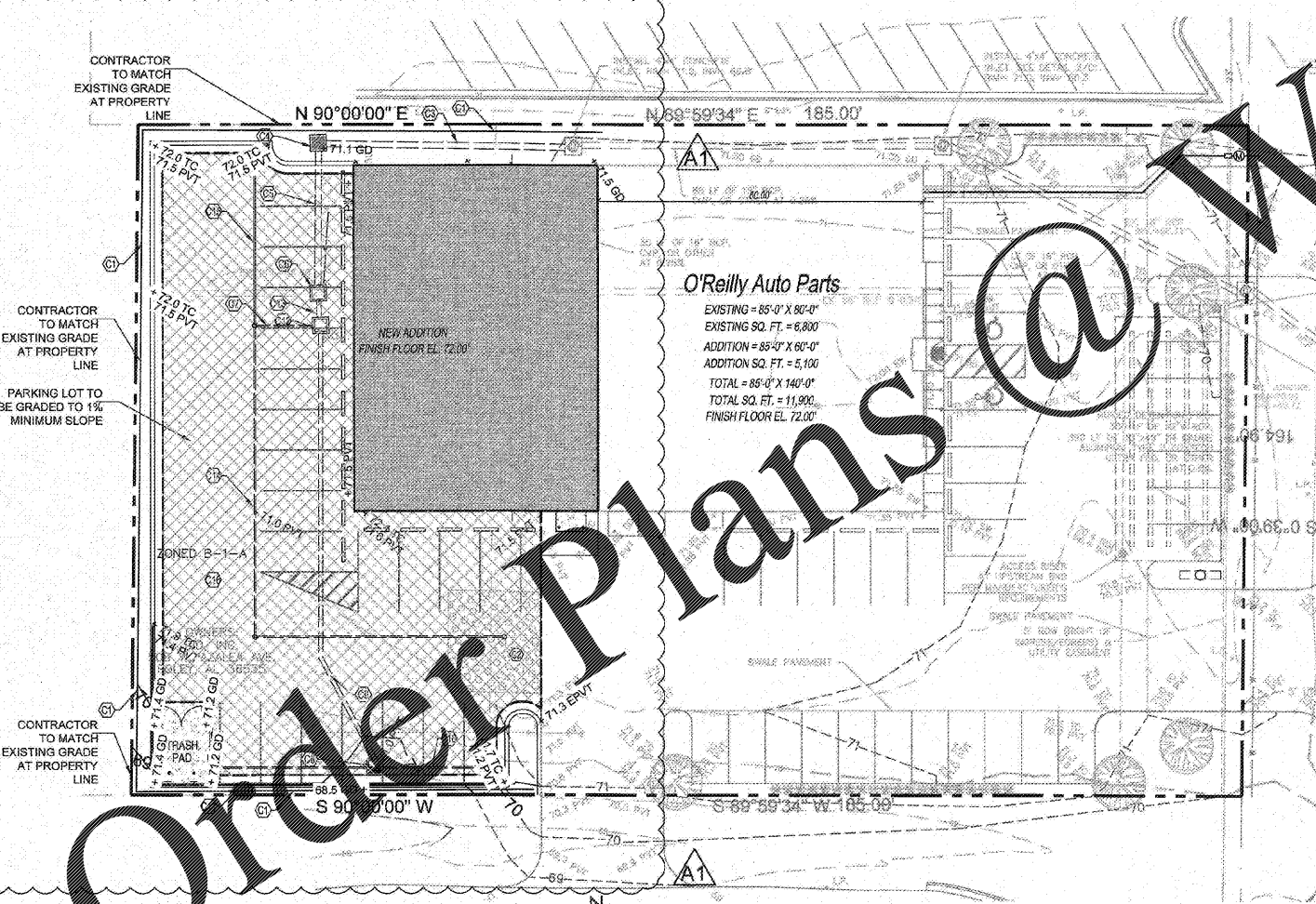
Know what's below  
Call before you dig.



## PIPES NOTES:

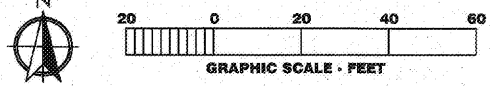
1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), HIGH DENSITY POLYETHYLENE (HDPE), POLYPROPYLENE PIPE (PP).
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

**NOTE: PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY & DRAINAGE CONNECTIONS TO EXISTING SYSTEMS BY POT HOLING AND SHALL NOTIFY ENGINEER OF NEEDED CHANGES: FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL REVISION COSTS AND DELAYS.**



## 1 SITE GRADING PLAN

C1.1 SCALE: 1" = 20'-0"



SYMBOLS LEGEND			
REFER TO SURVEY (SVI) FOR EXISTING CONDTION SYM: QLS LEGEND AND SITE CONTROL			
---	72	EXISTING GRADE LINES	
---	72	PROPOSED NEW GRADE LINES	
[Hatched Box]		NEW BUILDING CONSTRUCTION	
[Circle]		NEW POLE SIGN LOCATION	
[Line]		NEW CONCRETE PAVING BLOCK	
[X]		TEMPORARY EROSION CONTROL FENCE	
[Arrow]		SURFACE FLOW ARROW	
[Symbol]		NEW SPOT ELEVATIONS LIST	ABBREVIATION
		GRADE	NGKE
		SIDEWALK	SW
		TOP OF CURB	TC
		TOP OF PAVEMENT	TPV
		NEW GRADE	GD
		CONCRETE	CONC
		EXISTING TOP OF CURB	ETC
		EXISTING GRADE	ESD
		EXISTING PAVEMENT	EPV
		EXISTING SIDEWALK	ESW
		FLOW LINE	FL
		TOP OF BERM	TOP
		TBM #1 - ELEV. = 74.52, TOP OF FIRE HYDRANT @ N.E. CORNER OF PROPERTY	

ALABAMA HIGHWAY NO. 59 (100' RW) ALSO KNOWN AS MCKENZIE STREET

O'Reilly Auto Parts  
 EXISTING = 85'-0" X 90'-0"  
 EXISTING SQ. FT. = 6,800'  
 ADDITION = 85'-0" X 60'-0"  
 ADDITION SQ. FT. = 5,100'  
 TOTAL = 85'-0" X 140'-0"  
 TOTAL SQ. FT. = 11,900'  
 FINISH FLOOR EL. 72.00

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

PROJECT: BUILDING ADDITION  
**O'REILLY AUTO PARTS STORE**  
 1040 SOUTH MCKENZIE STREET  
 FOLEY, ALABAMA  
**SITE GRADING PLAN**

**ANDERSON ENGINEERING**  
 EMPLOYEE OWNED  
 ENGINEERS - SURVEYORS - LABORATORIES - DRILLING  
 2045 W. WOODLAND - SPRINGFIELD, MISSOURI 65807 - PHONE (417) 885-2741  
 ANDERSON COMP. CORP. 1818 N. BRADY - PHOENIX, ARIZONA  
 PROJECT: 18SP10026 DRAWING # WB-111-120

DRAWN BY: **DG** CHECKED BY: **NB**  
 DATE: **09/28/18**  
 REVISION: **AD1** 02/09/2019  
 PROJECT NUMBER: **FOL-1133**  
 SHEET NUMBER: **C1.1**