

SEP 18 2018  
 1:58 PM  
 TAKE OFF SHEET 4/1  
 SPRINGFIELD, MO

**BILL OF MATERIALS**

ITEM	QTY	DESCRIPTION	MATERIAL	VENDOR	NOTE
1	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
2	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
3	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
4	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
5	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
6	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
7	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
8	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
9	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
10	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
11	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
12	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
13	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL
14	1	30" X 60" HP DW MANIFOLD BEND	304 SS	ACE	SEE DETAIL

**NOTES**

- THE BUYER SHALL OBTAIN ALL NECESSARY PERMITS AND NECESSARY ADJUST DRAINAGE TO ENSURE PROPER FLOW AND PREVENTION OF BACKFLOW.
- ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- NOT FOR CONSTRUCTION - THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION.

**NOTES**

- ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONCRETE SHALL BE PLACED AND FINISHED TO THE FINISH ELEVATION SHOWN ON THIS SHEET.
- REINFORCEMENT SHALL BE PLACED AND TIED TO THE REINFORCEMENT AS SHOWN ON THIS SHEET.
- CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS BEFORE THE STRUCTURE IS USED.

**NOTES**

- WELD VENT TUBES SHUT PRIOR TO SHIPPING.
- WELD VENT TUBES SHUT PRIOR TO SHIPPING.

**NOTES**

- WELD VENT TUBES SHUT PRIOR TO SHIPPING.
- WELD VENT TUBES SHUT PRIOR TO SHIPPING.

**NOTES**

- WELD VENT TUBES SHUT PRIOR TO SHIPPING.
- WELD VENT TUBES SHUT PRIOR TO SHIPPING.

**NOTES**

- WELD VENT TUBES SHUT PRIOR TO SHIPPING.
- WELD VENT TUBES SHUT PRIOR TO SHIPPING.

**Order Plans @**

ALL DETAILS PROVIDED BY ADS ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY. BOHLER ENGINEERING SHALL BE HELD HARMLESS IN THE EVENT OF ERRONEOUS INFORMATION CONTAINED WITHIN THESE DETAILS AND/OR STRUCTURAL FAILURE.

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

**OUTLET STRUCTURE DETAIL - STRUCTURE A-1**  
 NOT TO SCALE

NOTE: CONTRACTOR TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

**WWW.LDILLINE.COM**

Virginia Runoff Reduction Method New Development Compliance Spreadsheet - Version 8.0

Site Summary: 290 Deacon Road, Fredericksburg, VA

Site Land Cover Summary	A (ac)	B (ac)	C (ac)	D (ac)	Total	% of Total
Forest/Open Areas	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0

Site T1 and Land Cover Nutrient Loads	Site T1	Site T2	Site T3	Site T4	Site T5
Treatment Volume (ft <sup>3</sup> )	2,500	2,500	2,500	2,500	2,500
TP Load (lb/yr)	1.85	1.85	1.85	1.85	1.85
TN Load (lb/yr)	11.77	11.77	11.77	11.77	11.77

Site Compliance Summary	Site T1	Site T2	Site T3	Site T4	Site T5
Total Runoff Volume Reduction (ft <sup>3</sup> )	0	0	0	0	0
Total TP Load Reduction Achieved (lb/yr)	0.00	0.00	0.00	0.00	0.00
Total TN Load Reduction Achieved (lb/yr)	0.00	0.00	0.00	0.00	0.00

**Drainage Area A Summary**

Land Cover Summary	A (ac)	B (ac)	C (ac)	D (ac)	Total	% of Total
Forest/Open Areas	0.00	0.00	0.00	0.00	0.00	0
Managed Turf (acres)	0.00	0.00	0.00	0.00	0.00	0
Impervious Cover (acres)	0.00	0.00	0.00	0.00	0.00	0

**500' Selection**

Practice	Managed Turf Credit Area (Acres)	Impervious Cover Credit Area (Acres)	SMP Treatment Volume (ft <sup>3</sup> )	TP Load from Stormwater Practice (lb/yr)	Unreduced TP Load to Practice (lb/yr)	TP Reduced (lb/yr)	TP Remaining (lb/yr)	Downstream Treatment to be Employed
Total Impervious Cover Treated (Acres)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total TP Load Treated (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total TP Load Reduction Achieved in D.A. (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total TN Load Reduction Achieved in D.A. (lb/yr)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

OVERLAND VA

April 2, 2018

Lawrence O'Brien  
 Bohler Engineering  
 28 Blackwell Park Lane,  
 Suite 201  
 Warrenton, VA 20186

RE: Nutrient Credits for project at 290 Deacon Rd, Fredericksburg, VA

Dear Lawrence,

This letter is to certify that as of today, April 2, 2018, Outcrop Nutrient Bank (Servicing Hydrologic Unit Codes: 02080103, 02080104 and parts of 02080102) has 21.84 pounds of phosphorus and 67.93 pounds of nitrogen available for transfer to those entities requiring offsets in accordance with the Chesapeake Bay Watershed Nutrient Credit Exchange Program. Please feel free to reach out with any questions or concerns. I hope we have the opportunity to work together on this assignment. Best,

Harrison Hall  
 804-814-5299  
 hallharrison@bohlereng.com

1 | OVERLAND VA, LLC | 1801 Beckley Court, Suite 101 | Richmond, VA 23226 | 604.474.5299

**BOHLER ENGINEERING**  
 28 BLACKWELL PARK LANE, SUITE 201 WARRENTON, VA 20186  
 PHONE: (840) 349-4200 FAX: (840) 349-0221

PROJECT No.: V183201 SCALE: AS NOTED  
 DRAWN BY / CHECKED BY: DSH/JOR CAD I.D.: SD0

COMMONWEALTH OF VIRGINIA  
 JONATHAN SCHEIDER  
 Lic. No. 052544  
 9/11/19  
 PROFESSIONAL ENGINEER

CRAIG A. SCHNEIDER, AIA  
 ARCHITECT  
 1736 East Sunshine, Suite 417  
 Springfield, Missouri 65864  
 417.862.0588  
 417.862.3265  
 Fax: 417.862.3265  
 e-mail: architect@esterstyschneider.com

PROJECT:  
 NEW O'REILLY AUTO PARTS STORE  
 290 DEACON ROAD  
 FREDERICKSBURG, VA #4  
 SWM/BMP DETAILS

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

COMM # 4251  
 DATE: 11-2-18  
 REVISION  
 DATE: 03-25-19  
 06-24-19  
 09-11-19

**C3.5**