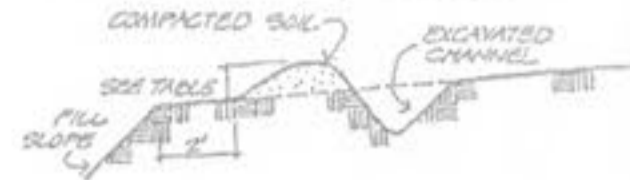


DIVERSIONS
For Urban Development Sites

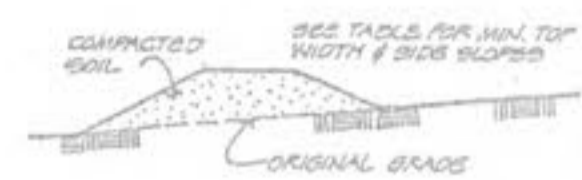
APPENDIX B

*3 Details for diversions must be stable. Stable details consist of grass waterways, earthen channels with capacity adequate to prevent gully erosion, grade stabilization structures or other practices as approved by the Designated Official.

Combination Diversion
Used at the top of a fill slope.



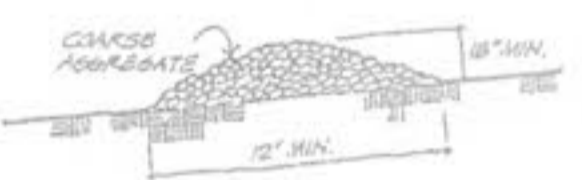
Earth Ridge Diversion
Used around the perimeter of a construction site.



Combination Diversion
General use.



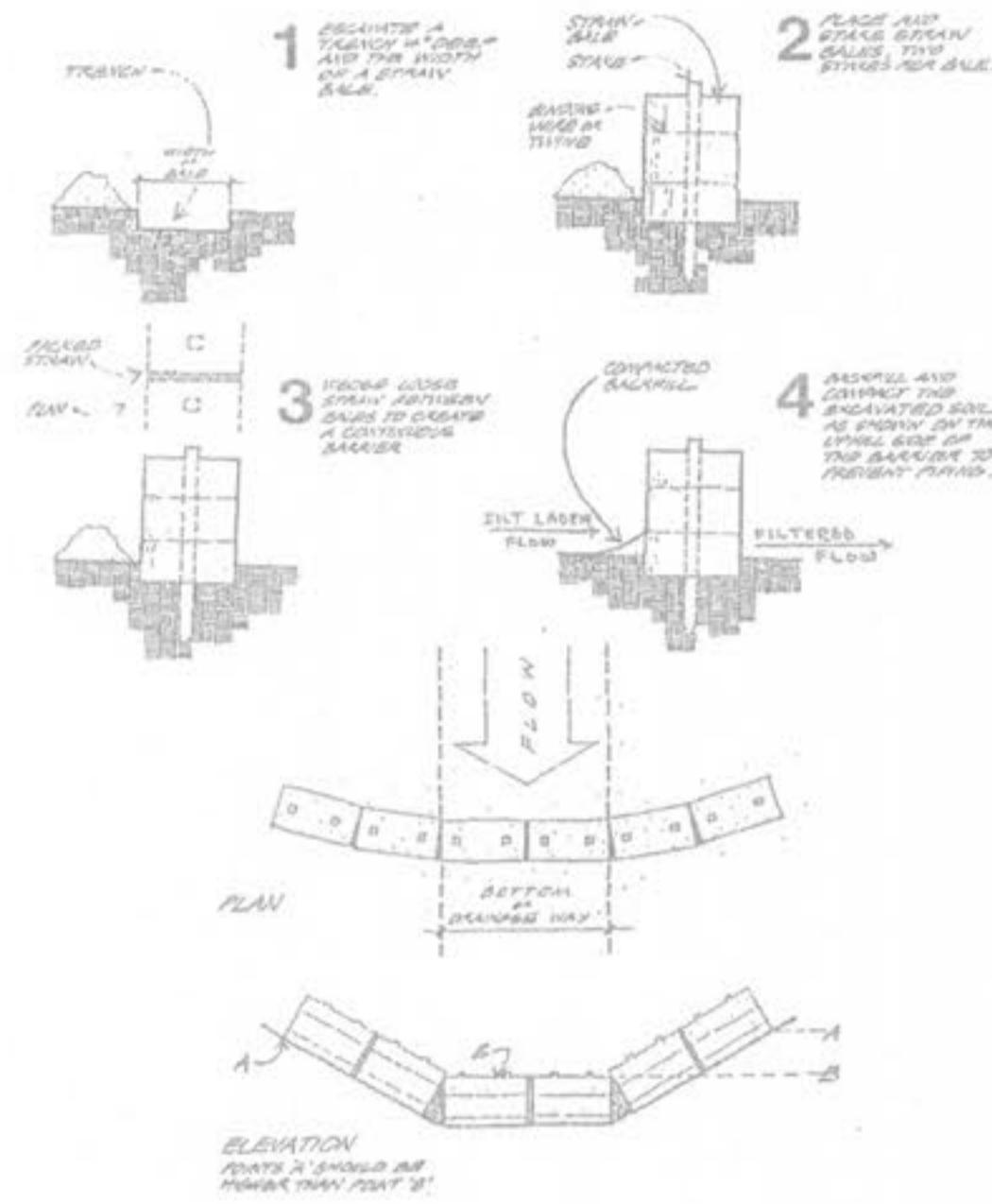
Gravel Ridge Diversion
General use.



(7)

STRAW BALE BARRIERS
For Urban Development Sites

APPENDIX C



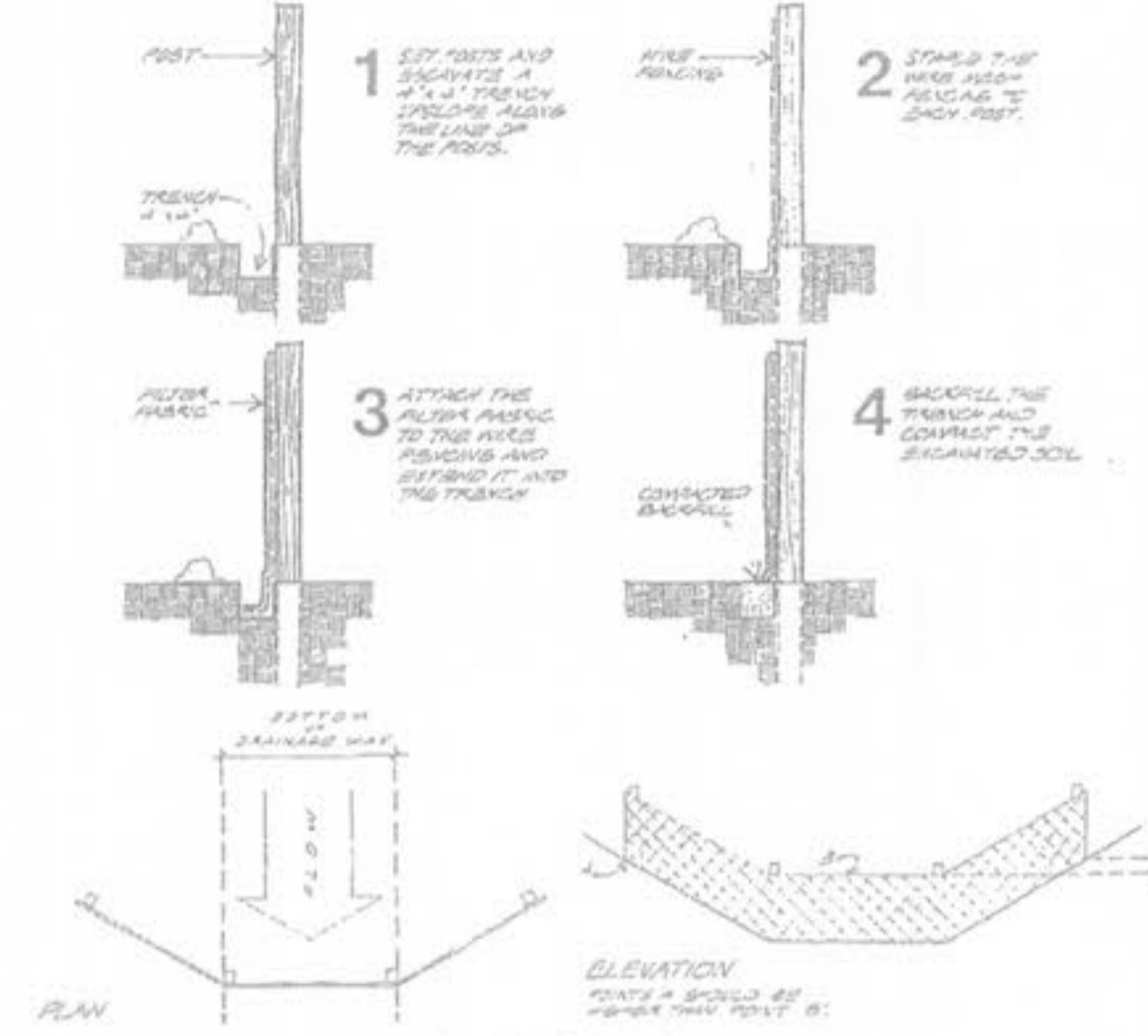
(8)

SYNTHETIC FILTER BARRIERS
For Urban Development Sites

APPENDIX D

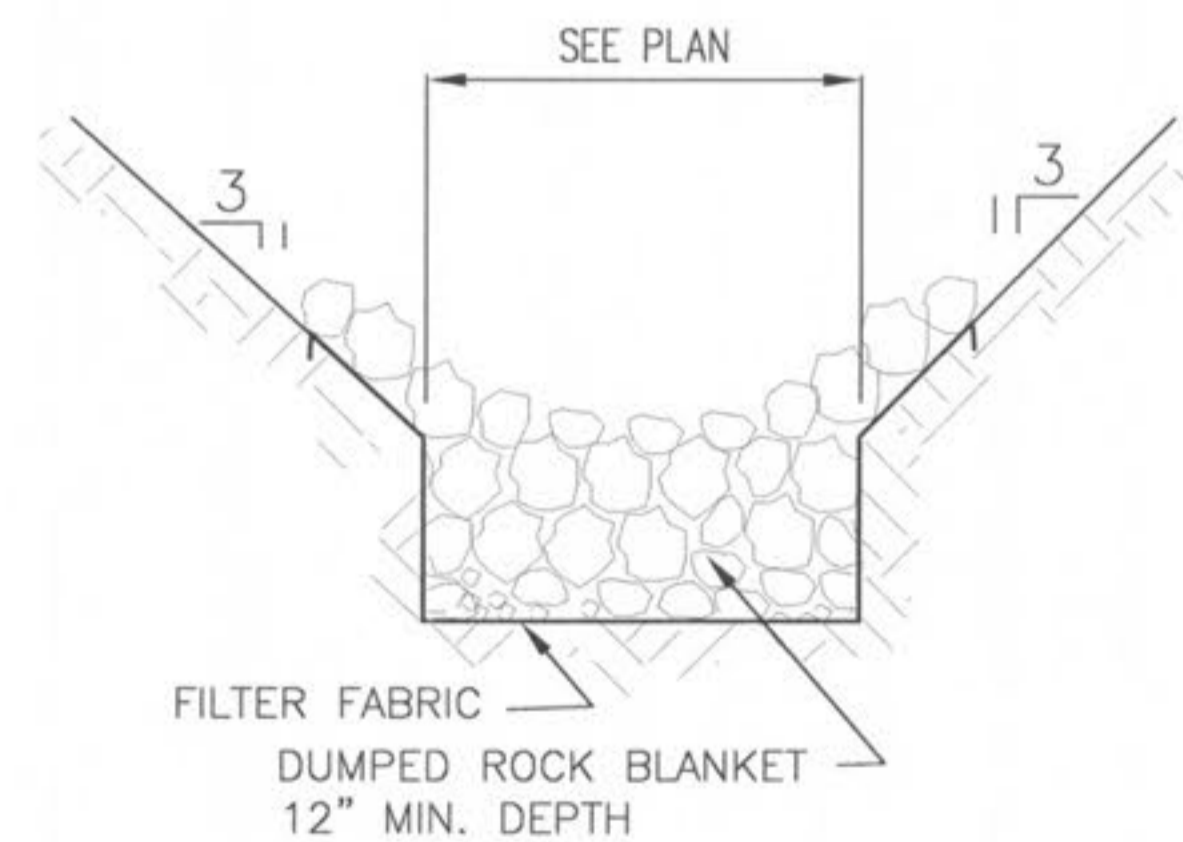
Maintenance

- Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- Should the fabric decompose or become ineffective prior to the end of the expected useful life and the barrier still be necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.
- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



(9)

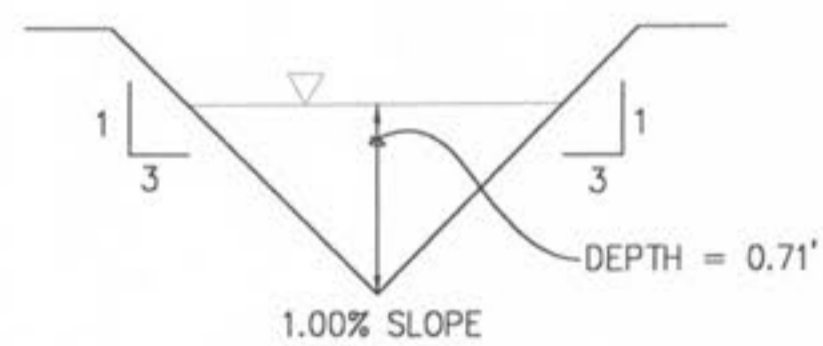
TYPICAL DITCH CHECK DETAIL



NOTE: DUMPED ROCK BLANKET TO BE A MIN. 12" DIA. QUARRY RUN STONE.

3 ROCK BLANKET DETAIL
SCALE: N.T.S.

REF. DWG.

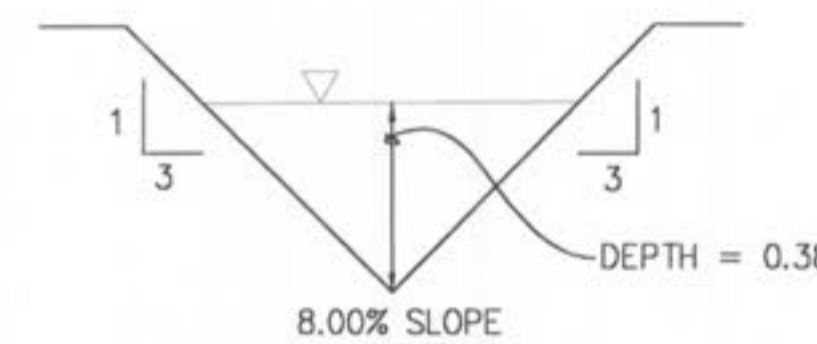


TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
TYPICAL YARD SWALE WITH 1% SLOPE

September 21, 2007

PROGRAM INPUT DATA		VALUE
DESCRIPTION		
Flow Rate (cfs)	4.0	
Channel Bottom Slope (ft/ft)	0.01	
Manning's Roughness Coefficient (n-value)	0.027	
Channel Left Side Slope (horizontal/vertical)	3.0	
Channel Right Side Slope (horizontal/vertical)	3.0	
Channel Bottom Width (ft)	0.01	
COMPUTATION RESULTS		VALUE
DESCRIPTION		
Normal Depth (ft)	0.71	
Flow Velocity (fps)	2.66	
Froude Number	0.789	
Velocity Head (ft)	0.11	
Energy Head (ft)	0.82	
Cross-Sectional Area of Flow (sq ft)	1.50	
Top Width of Flow (ft)	4.25	

HYDROCALC Hydraulics for Windows, Version 1.2a Copyright (c) 1996
Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 77069
Phone: (281) 440-3787, Fax: (281) 440-4742, Email: software@dodson-hydro.com
All Rights Reserved.



TRAPEZOIDAL CHANNEL ANALYSIS
NORMAL DEPTH COMPUTATION
TYPICAL YARD SWALE WITH 8% SLOPE

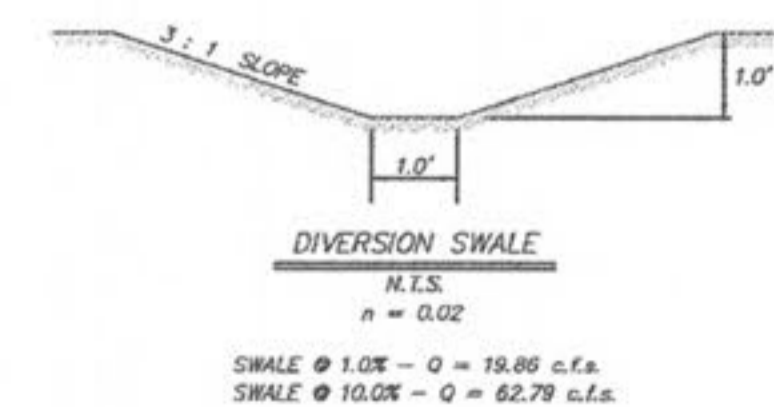
September 26, 2007

PROGRAM INPUT DATA		VALUE
DESCRIPTION		
Flow Rate (cfs)	2.16	
Channel Bottom Slope (ft/ft)	0.08	
Manning's Roughness Coefficient (n-value)	0.027	
Channel Left Side Slope (horizontal/vertical)	3.0	
Channel Right Side Slope (horizontal/vertical)	3.0	
Channel Bottom Width (ft)	0.01	
COMPUTATION RESULTS		VALUE
DESCRIPTION		
Normal Depth (ft)	0.38	
Flow Velocity (fps)	4.99	
Froude Number	2.02	
Velocity Head (ft)	0.39	
Energy Head (ft)	0.77	
Cross-Sectional Area of Flow (sq ft)	0.43	
Top Width of Flow (ft)	2.28	

HYDROCALC Hydraulics for Windows, Version 1.2a Copyright (c) 1996
Dodson & Associates, Inc., 5629 FM 1960 West, Suite 314, Houston, TX 77069
Phone: (281) 440-3787, Fax: (281) 440-4742, Email: software@dodson-hydro.com
All Rights Reserved.

TYPICAL TEMPORARY DIVERSION SWALE

SWALE IS TO BE SEEDED.



REVISIONS

DATE	BY	REVISION
12/18/07	JKW	ISSUE COMMENTS/DTY COMMENTS
1/17/08	JKW	ISSUE COMMENTS/DTY COMMENTS

DEVELOPER/OWNER:
THE JONES COMPANY HOMES, L.L.C.
16640 CHESTERFIELD GROVE, SUITE 200
CHESTERFIELD, MO 63005
PHONE: (636) 537-7192

THE PROFESSIONAL ENGINEER HAS REVIEWED AND APPROVED THE DESIGN AND CONSTRUCTION OF THIS PROJECT. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DESIGN OR CONSTRUCTION. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIMSELF OR HIS FIRM. ANY PART OF THIS PROJECT TO WHICH THIS PAGE REFERS.

MIKE E. VONDERHEIDE
REGISTERED PROFESSIONAL ENGINEER
NUMBER E-20077
12/20/07

PRESTON WOODS - PHASE III
MASS GRADING PLANS
+ PARTIAL STORM SEWER
ST. CHARLES, MO. 63366

planning • engineering • surveying • landscape architecture
Cole and Associates
INCORPORATED
10777 sunset office dr.
saint louis, missouri
p. 314.984.9887 f. 314.984.0687

DESIGNED BY
JKW
DRAWN BY
JKW
CHECKED BY
JFH
DATE
8/13/07

Job Number
07-0178
Sheet Number
G6.1

USER: jelson TAB: G6.1
DATE: Jan 11, 2008 - 7:51am
DRAWING: S:\0805\080507\07-0178\037-0178.dwg MASS GRADING PLANS PHASE III NO. G6.1 DETAILS.dwg