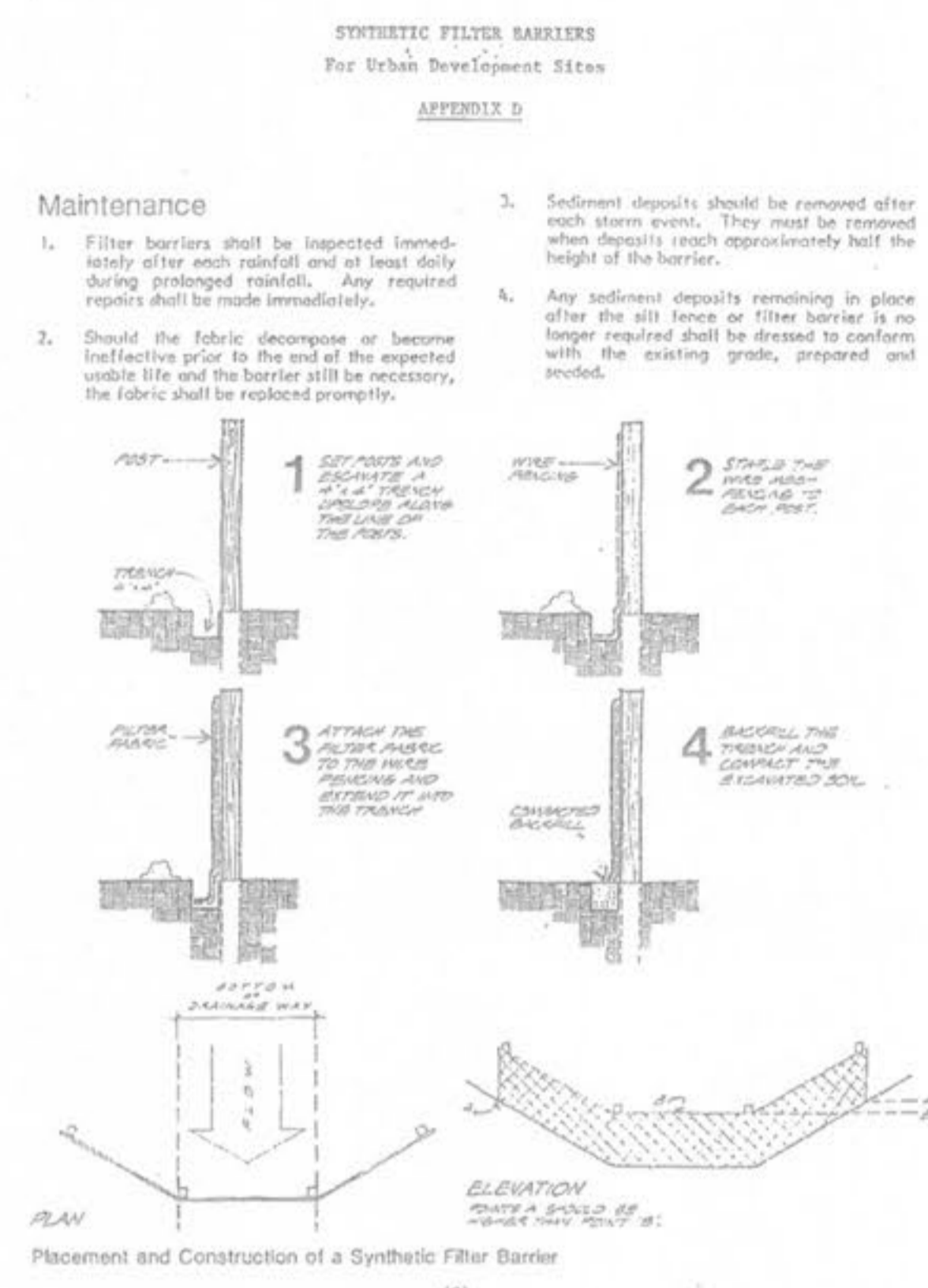
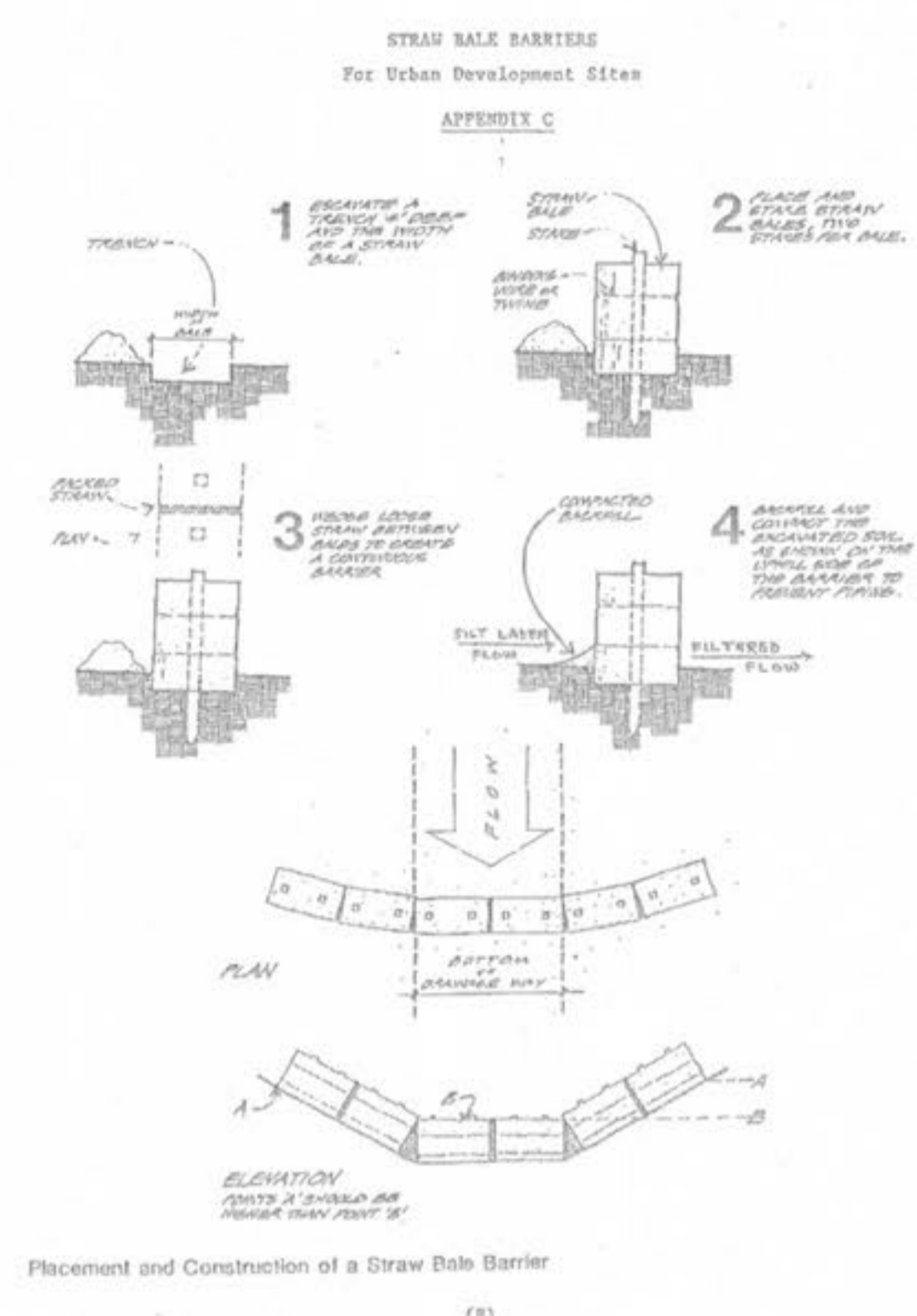
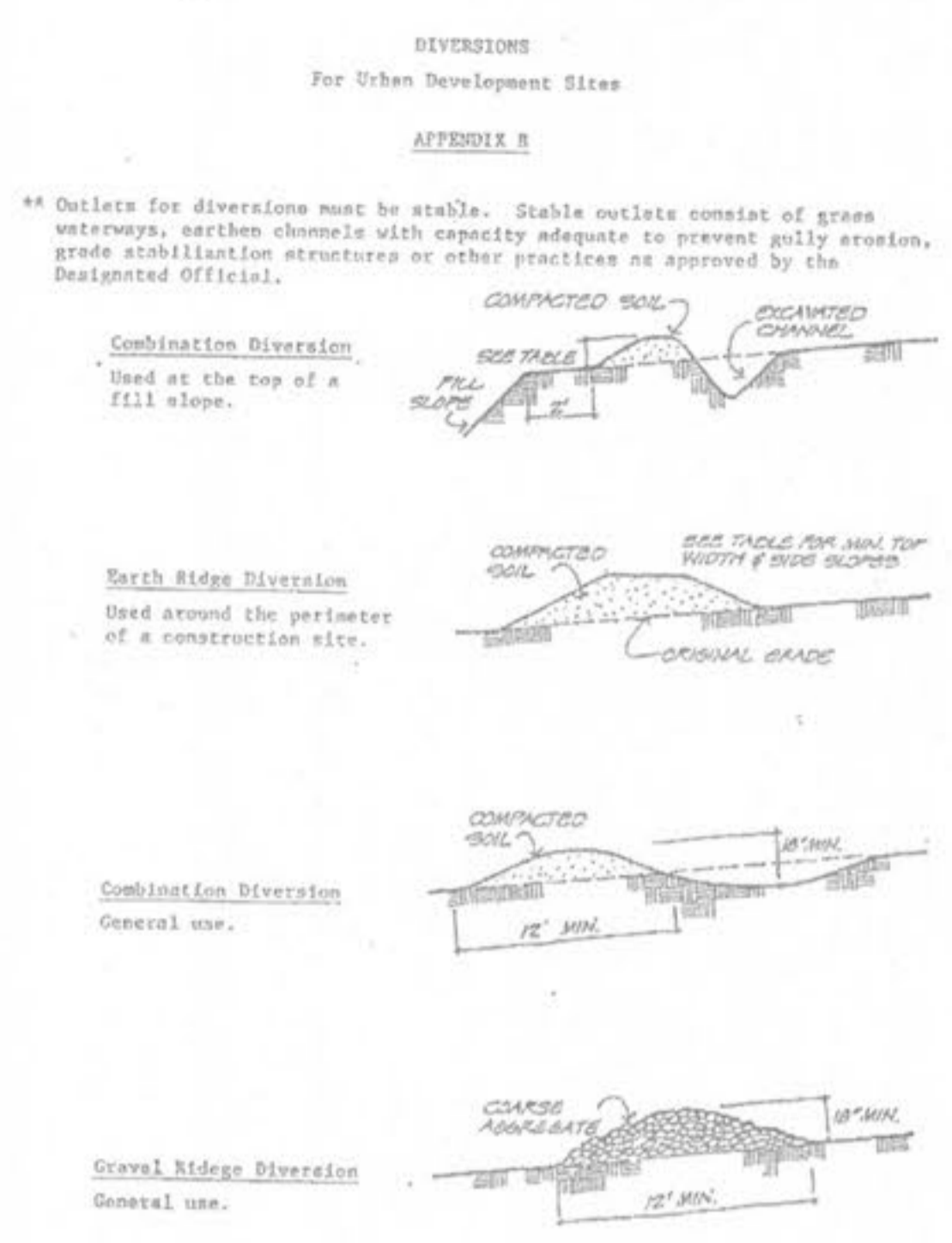
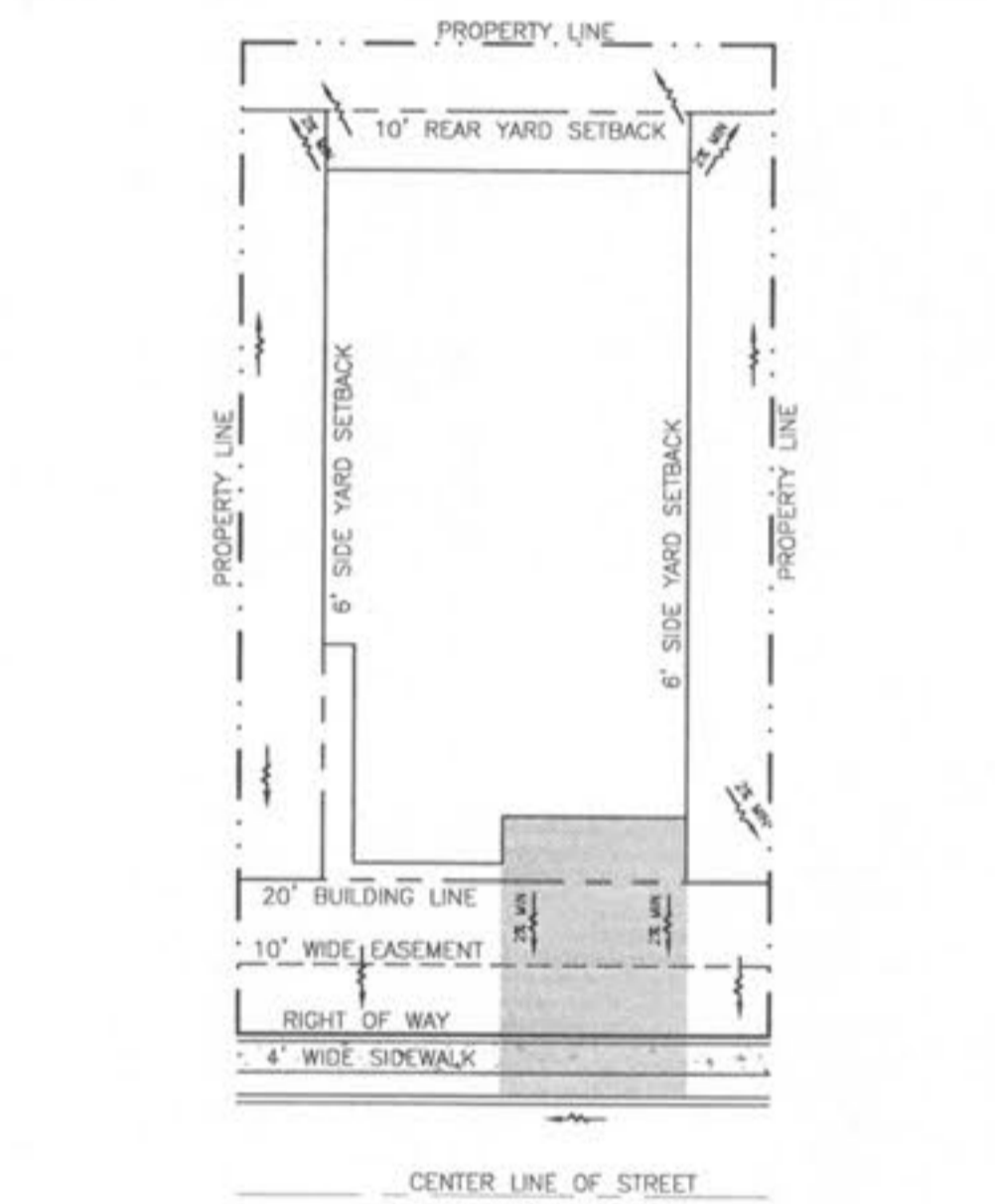
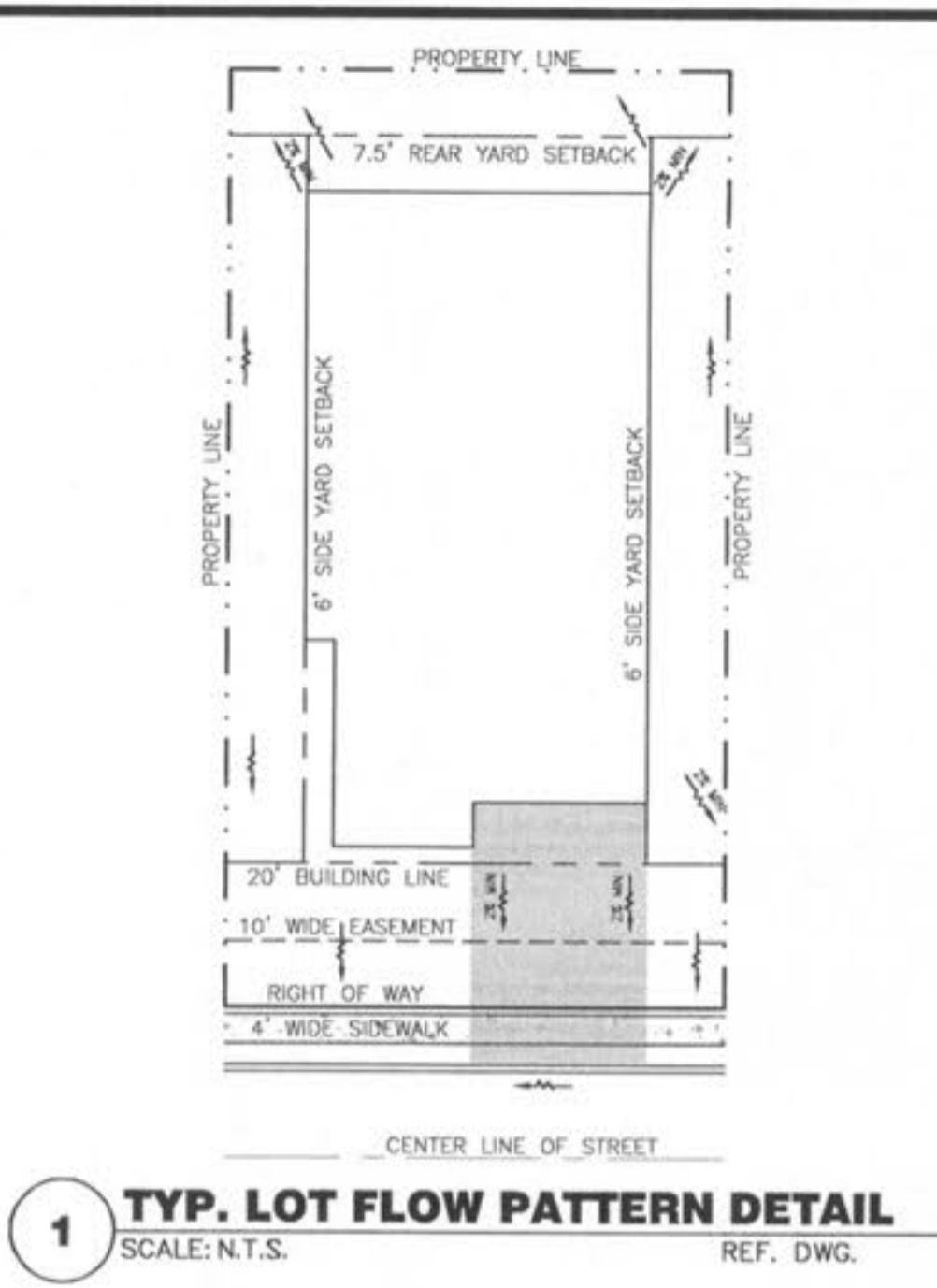


**AMBER WILLOW COURT -  
FLOWERING ASH LANE INTERSECTION**  
SCALE = 1" = 20'

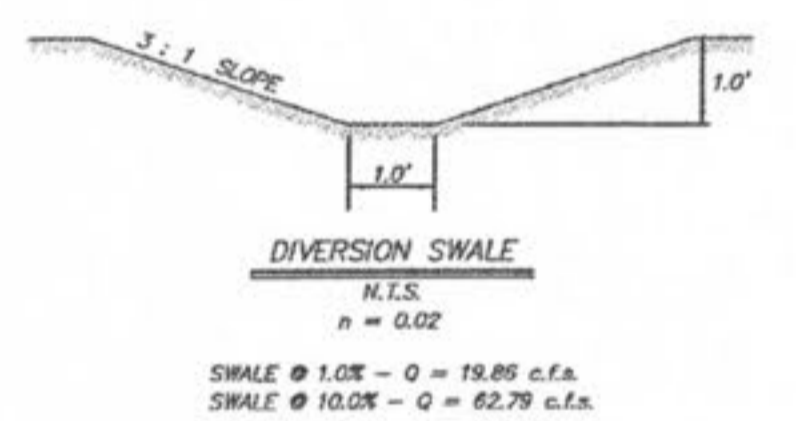


**Maintenance**

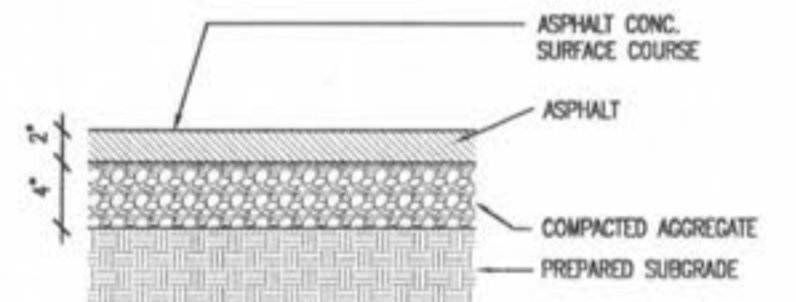
- Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfalls. Any required repairs shall be made immediately.
- Should the fabric decompose or become ineffective prior to the end of the expected useful life and the barrier still be necessary, the 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 sill fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



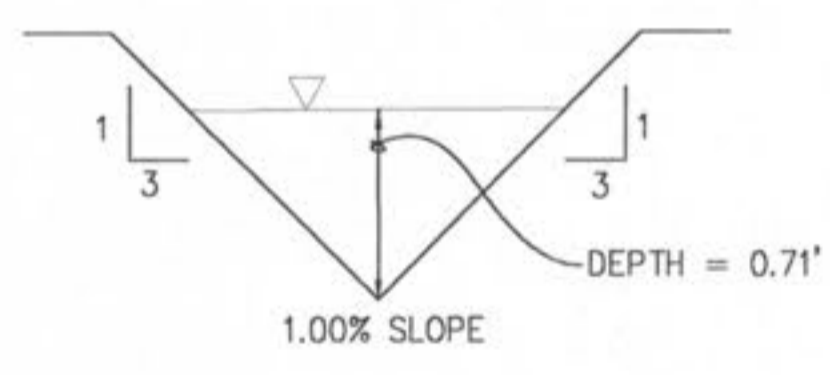
**TYPICAL TEMPORARY DIVERSION SWALE**  
SWALE IS TO BE SEEDDED.



**2 MULTI-USE WALKING TRAIL DETAIL**  
SCALE: N.T.S. REF. DWG.



NOTE: THE DETAILS SHOWN HEREIN ARE FOR THE PURPOSE OF PRIVATE CONSTRUCTION ONLY. PUBLIC CONSTRUCTION WILL REQUIRE STRICT ADHERENCE TO THE DETAILS PUBLISHED BY DUCKETT CREEK AND ST. CHARLES COUNTY.

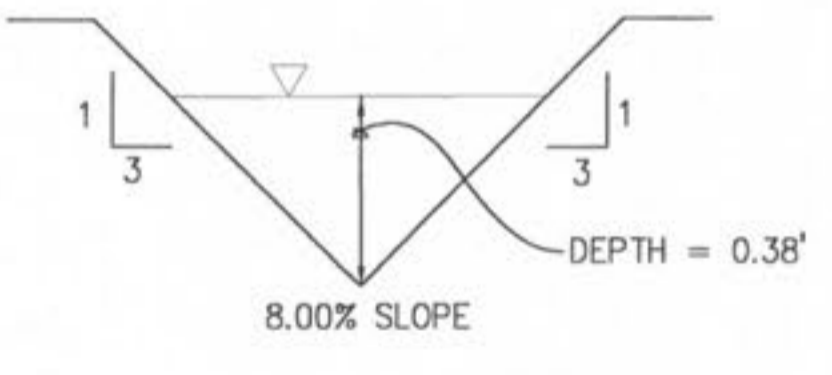


**TRAPEZOIDAL CHANNEL ANALYSIS**  
NORMAL DEPTH COMPUTATION  
TYPICAL YARD SWALE WITH 1% SLOPE  
September 21, 2007

DESCRIPTION	PROGRAM INPUT DATA	VALUE
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

DESCRIPTION	COMPUTATION RESULTS	VALUE
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

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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  
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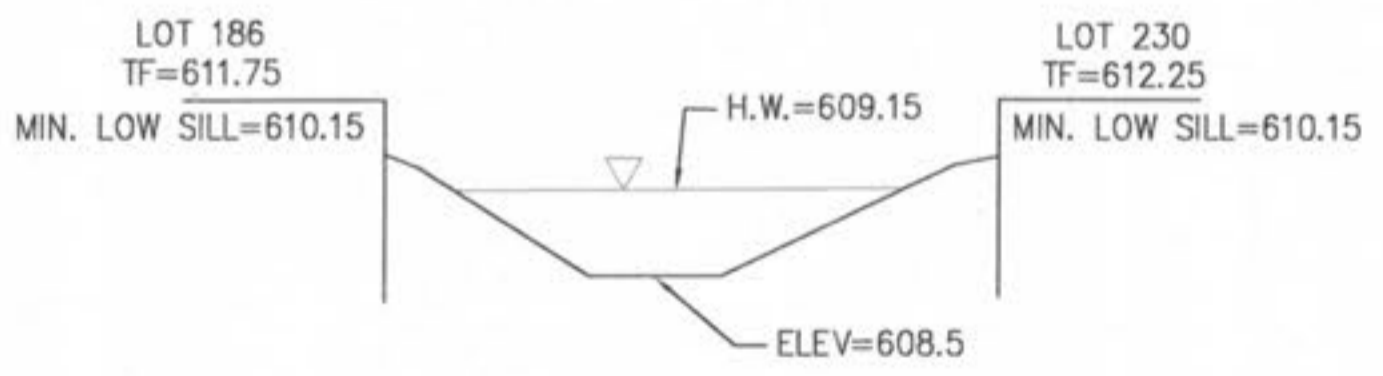


**TRAPEZOIDAL CHANNEL ANALYSIS**  
NORMAL DEPTH COMPUTATION  
TYPICAL YARD SWALE WITH 8% SLOPE  
September 26, 2007

DESCRIPTION	PROGRAM INPUT DATA	VALUE
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

DESCRIPTION	COMPUTATION RESULTS	VALUE
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

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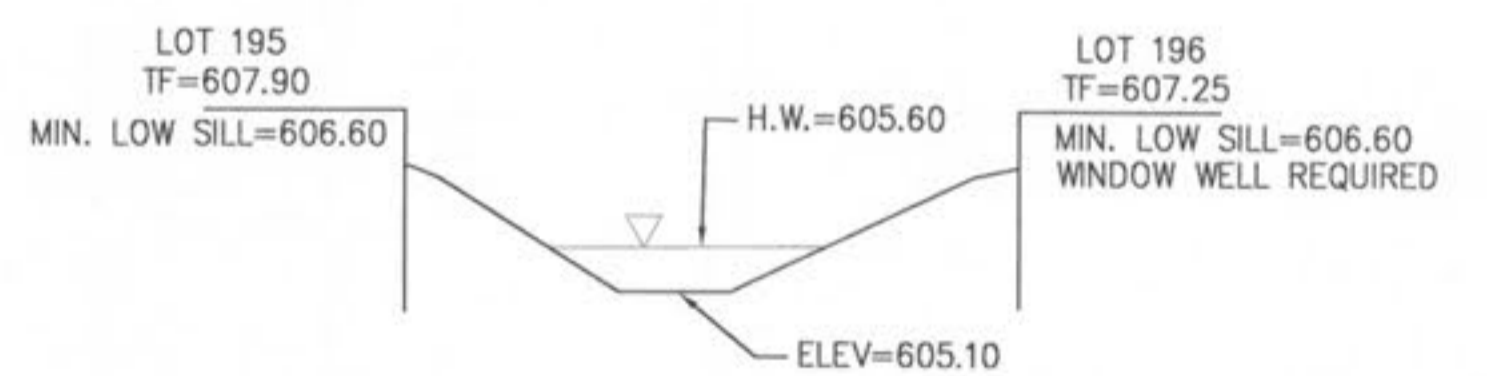


**TRAPEZOIDAL CHANNEL ANALYSIS**  
NORMAL DEPTH COMPUTATION  
March 10, 2008

DESCRIPTION	PROGRAM INPUT DATA	VALUE
Flow Rate (cfs)		6.07
Channel Bottom Slope (ft/ft)		0.02
Manning's Roughness Coefficient (n-value)		0.035
Channel Left Side Slope (horizontal/vertical)		3.0
Channel Right Side Slope (horizontal/vertical)		3.0
Channel Bottom Width (ft)		1.0

DESCRIPTION	COMPUTATION RESULTS	VALUE
Normal Depth (ft)		0.65
Flow Velocity (fps)		3.13
Froude Number		0.879
Velocity Head (ft)		0.15
Energy Head (ft)		0.81
Cross-Sectional Area of Flow (sq ft)		1.94
Top Width of Flow (ft)		4.93

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**TRAPEZOIDAL CHANNEL ANALYSIS**  
NORMAL DEPTH COMPUTATION  
March 10, 2008

DESCRIPTION	PROGRAM INPUT DATA	VALUE
Flow Rate (cfs)		3.37
Channel Bottom Slope (ft/ft)		0.02
Manning's Roughness Coefficient (n-value)		0.035
Channel Left Side Slope (horizontal/vertical)		3.0
Channel Right Side Slope (horizontal/vertical)		3.0
Channel Bottom Width (ft)		1.0

DESCRIPTION	COMPUTATION RESULTS	VALUE
Normal Depth (ft)		0.50
Flow Velocity (fps)		2.69
Froude Number		0.848
Velocity Head (ft)		0.11
Energy Head (ft)		0.61
Cross-Sectional Area of Flow (sq ft)		1.25
Top Width of Flow (ft)		4.0

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REVISIONS	
DATE	DESCRIPTION
5/1/08	CITY INSPECTION & DCKETT CREEK COMMENTS
5/1/08	CITY COMMENTS
5/1/08	CITY COMMENTS

DEVELOPER/OWNER:  
**THE JONES COMPANY HOMES, L.L.C.**  
16640 CHESTERFIELD GROVE, SUITE 200  
CHESTERFIELD, MO 63005  
PHONE: (636) 637-7192



**PRESTON WOODS - PHASE III**  
IMPROVEMENT PLANS  
PRESTON WOODS LANE  
O'FALLON, MO. 63366  
**SITE DETAILS & WARPING**

planning • engineering • surveying • landscape architecture  
**Cole and Associates**  
INCORPORATED  
10777 sunset office dr.  
saint louis, missouri 63127  
p: 314 984 9887 f: 314 984 0887

DESIGNED BY: JKW  
DRAWN BY: KDK  
CHECKED BY: JFH  
DATE: 12/19/07  
Job Number: 07-0178  
Sheet Number: C9.9

USER: mison TAB: SITE DETAIL SHEET 9.9  
DATE: May 01, 2008 10:08am  
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