VEGETATION ESTABLISHMENT
For Urban Development Sites
APPENDIX A

SEEDING RATES:

PERMANENT:
- Tall Fescue – 30 lbs./ac.
- Smooth Brome – 20 lbs./ac.
- Combined – Fescue @ 15 lbs./ac. AND Brome @ 10 lbs./ac.

TEMPORARY:
- Wheat or Rye – 150 lbs./ac. (3.5 lbs. per sq. ft.)
- Oats – 120 lbs./ac. (2.75 lbs. per sq. ft.)

SEEDING PERIODS:
- Fescue or Brome – March 1 to June 1; August 1 to October 1
- Wheat or Rye – March 15 to November 1
- Oats – March 15 to September 15

MULCH RATES:
- 100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.)

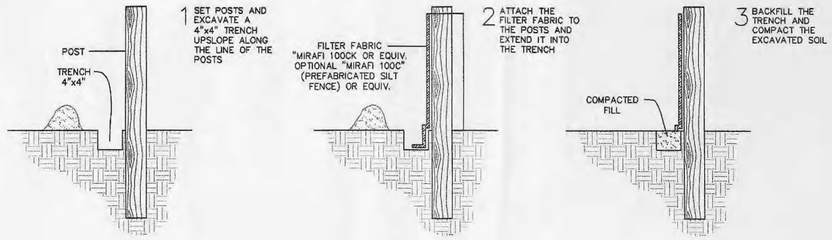
FERTILIZER RATES:

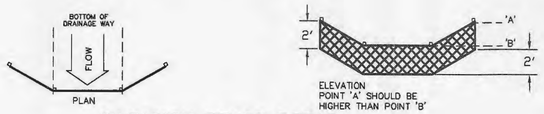
Nitrogen	30 lbs./ac.
Phosphate	30 lbs./ac.
Potassium	30 lbs./ac.
Lime	600 lbs./ac. ENM*

* ENM = effective neutralizing material as per State evaluation of quarried rock.

MAINTENANCE

1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. 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.





SILTATION FENCE DETAIL

SILTATION CONTROL SWALE: FLOW

INTERIM TEMPORARY GRADING:

Project Description

Project File	j:\haestad\fmw\0212311.fm2
Worksheet	SWALE TO BED BSN 1
Flow Element	Triangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data

Mannings Coefficient	0.030	
Channel Slope	0.030000	ft/ft
Left Side Slope	6.000000	H : V
Right Side Slope	6.000000	H : V
Discharge	7.17	cfs

Results

Depth	0.57	ft
Flow Area	1.95	ft²
Wetted Perimeter	6.93	ft
Top Width	6.84	ft
Critical Depth	0.62	ft
Critical Slope	0.018977	ft/ft
Velocity	3.68	ft/s
Velocity Head	0.21	ft
Specific Energy	0.78	ft
Froude Number	1.22	
Flow is supercritical.		

SWALE SECTION A–A TO SEDIMENT BASIN 1

Project Description

Project File	j:\haestad\fmw\0212311.fm2
Worksheet	SWALE TO BED BSN 4
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data

Mannings Coefficient	0.030	
Channel Slope	0.010300	ft/ft
Left Side Slope	3.000000	H : V
Right Side Slope	3.000000	H : V
Bottom Width	30.00	ft
Discharge	27.96	cfs

Results

Depth	0.38	ft
Flow Area	11.24	ft²
Wetted Perimeter	32.29	ft
Top Width	32.17	ft
Critical Depth	0.30	ft
Critical Slope	0.018923	ft/ft
Velocity	2.49	ft/s
Velocity Head	0.10	ft
Specific Energy	0.48	ft
Froude Number	0.74	
Flow is supercritical.		

SWALE SECTION B–B TO SEDIMENT BASIN 4

Project Description

Project File	j:\haestad\fmw\0212311.fm2
Worksheet	SWALE TO BED BSN 4
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

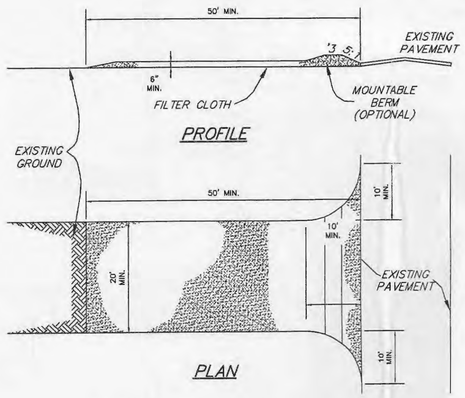
Input Data

Mannings Coefficient	0.030	
Channel Slope	0.010300	ft/ft
Left Side Slope	3.000000	H : V
Right Side Slope	3.000000	H : V
Bottom Width	30.00	ft
Discharge	27.96	cfs

Results

Depth	0.38	ft
Flow Area	11.24	ft²
Wetted Perimeter	32.29	ft
Top Width	32.17	ft
Critical Depth	0.30	ft
Critical Slope	0.018923	ft/ft
Velocity	2.49	ft/s
Velocity Head	0.10	ft
Specific Energy	0.48	ft
Froude Number	0.74	
Flow is supercritical.		

SWALE SECTION C–C TO SEDIMENT BASIN 9

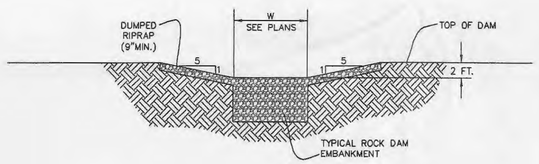


CONSTRUCTION SPECIFICATIONS

1. Stone Size – Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length – As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness – Not less than six (6) inches.
4. Width – Twenty (20) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth – Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
6. Surface Water – All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance – The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights–of–way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights–of–way must be removed immediately.
8. Washing – Wheels shall be cleaned to remove sediment prior to entrance onto public rights–of–way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

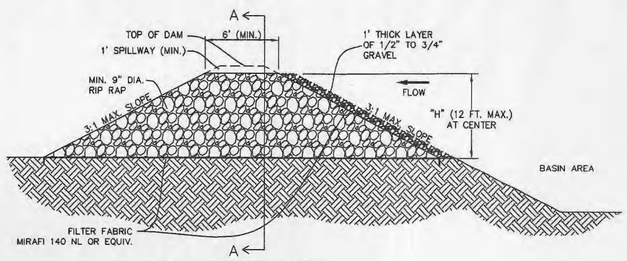
STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA

NOT TO SCALE



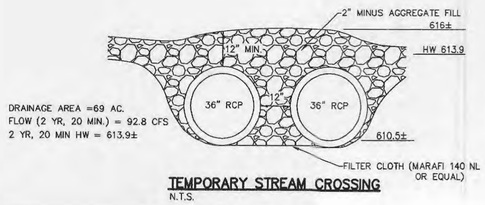
SECTION A–A
ROCK SPILLWAY DETAIL

N.T.S.



SEDIMENT TRAP
TYPICAL BASIN ROCK EMBANKMENT DETAIL

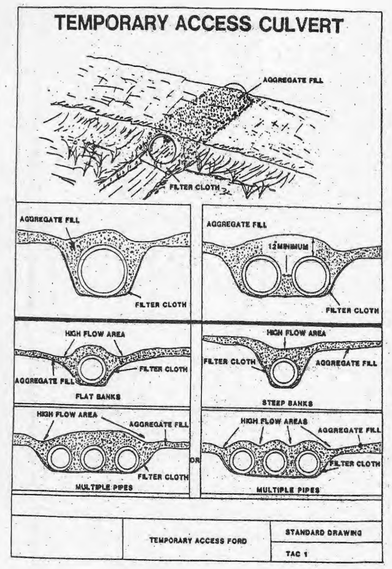
N.T.S.



DRAINAGE AREA =69 AC.
FLOW (2 YR, 20 MIN.) = 92.8 CFS
2 YR, 20 MIN HW = 613.9±

TEMPORARY STREAM CROSSING

N.T.S.



ISSUE	REMARKS/DATE
1	CITY COMMENTS/05-18-05

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DRAWN: DESIGNED: CHECKED:

PROJECT: COUNTRYSHIRE

SHEET TITLE: SILTATION CONTROL DETAILS

NO. 02 12 311
M.S.D. P#
SHEET 8 OF
DIGITAL FILE LOCATION SERVER=STERLING-2 DATA

BASE MAP

Drawing name: K:\DV\021231 RHODES TRACT\GRADING\231TLS.dwg Plotted on: May 18, 2005 - 4:07pm Plotted by: lgreen