

ZONING (office use)

APPLICATION FEE: \$100

DATE RECEIVED: _____

DATE COMPLETE: _____

PERMIT #: _____

HELLAM TOWNSHIP TIMBER HARVEST PERMIT APPLICATION

PRINT LEGIBLY – USING BLUE OR BLACK INK

An incomplete application will not be reviewed until all missing information is submitted. This includes all signatures. If information is not submitted the application can be deemed incomplete and can be denied. Mark N/A if a section is not applicable.

CONTACT INFORMATION

Check box to indicate main contact

	Name	Address	Phone(s)	E-mail
<input type="checkbox"/> Property Owner				
<input type="checkbox"/> Applicant				
<input type="checkbox"/> Contractor				

PA Act 132 Registration # _____

Provide a list of sub-contractors if any are being used.

Indicate insurance and attach a copy:

- Self - provide copy of homeowners insurance
- Contractor's Workers Compensation or Waiver

EXISTING SITE INFORMATION

Site Address: _____ Tax Parcel ID #: 31-000-____-0____-____ Lot Area: _____ acres

Zoning District: Rural-Ag. Res. Comm/Ind MU-1 MU-2 Interchange Quarry
 Floodplain Historic Village TDR Steep Slopes Woodlands/Canopy Riparian

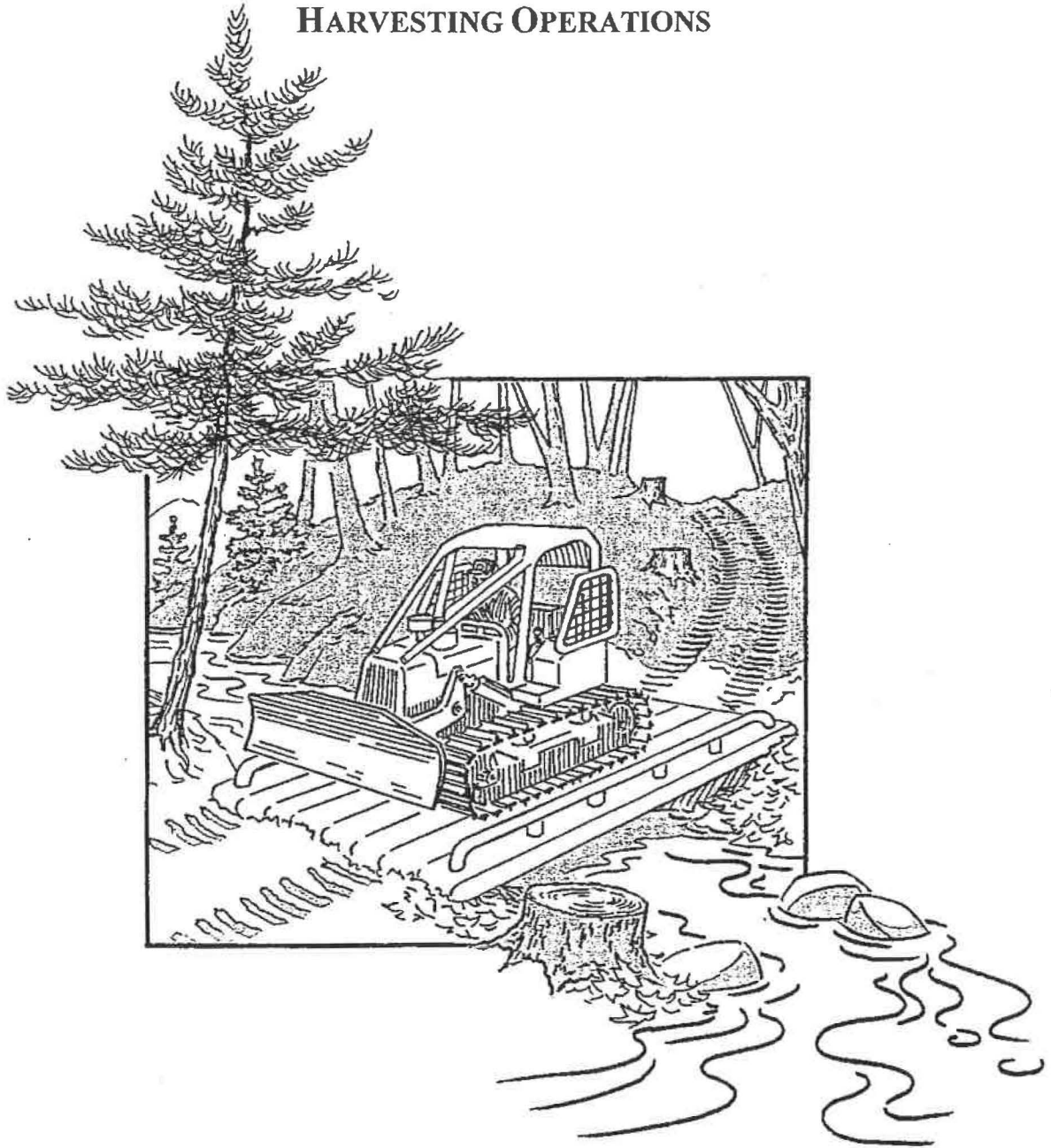
Overlay Zone: Buffer

Utilities: Sewer Service: Public Private Water Service: Public Private

- Are there any easements or right-of-ways on the property? Yes No
- Are any utility poles on your property? Yes No
- Are there any underground utilities through the property? Yes No
- Are there any deed restrictions or homeowner's association for the property? Yes No
- What type of road does the site access? Township State Private

Attach a copy of documents (deed, restrictions, HOP permits, driveway permits, etc.)

**CONTROLLING EROSION AND SEDIMENT
FROM TIMBER
HARVESTING OPERATIONS**



**PROFESSIONAL TIMBER HARVESTERS
ACTION PACKET**

Edward G. Rendell, *Governor*
Commonwealth of Pennsylvania

An Equal Opportunity Employer

Kathleen A. McGinty, *Secretary*
Department of Environmental Protection

Recommended Distances for Cross Drain Culverts (*Minimum of 12" culvert)

Road grade (%slope)	Culvert spacing (feet)
2	500
3	400
4	350
5-6	300
7-8	250
9-11	200
12-13	150
14+	

Suggested Temporary Stream Crossing Culvert Sizes, by Acres Drained
Refer to DEP-ESPC Program Manual for design assumptions and restrictions

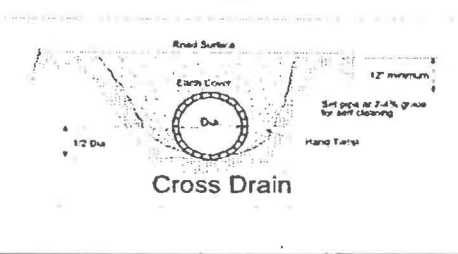
Filter Strip Widths by Slope of Land Between Roads and Perennial Streams

Slope of land between road and stream (%)	Minimum width of filter strip (feet)+
0	25++
10	45++
20	65
30	85
40	105
50	125
60	145
70	165

+ Widths should be doubled when the harvesting activity is located where receiving waters have a designated use/existing use of High Quality or Exceptional Value or within a municipal water supply, source water area.

++ Earth disturbance 50 feet or less from a stream requires a water obstruction and encroachment permit from the appropriate DEP Regional Office, Permitting and Technical Services Section.

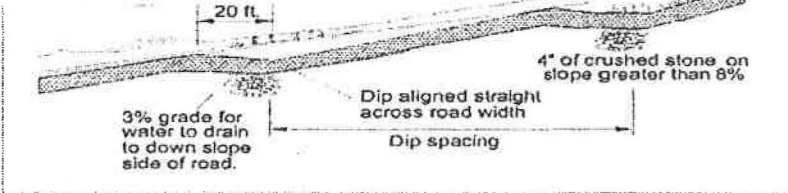
Cross Drain Culvert Installation



Broad-Based Dip Spacing

Road grade (% slope)	Spacing (feet)
2	300
3	250
4	200
5	180
6	170
7	160
8	150
9-10	140

Broad-Based Dips



Suggested Seeding Mixes for Landings, Roads, and Critical Areas

Mixes	Seeding rate (lb/acre)	Mixes	Seeding rate (lb/acre)
Permanent		Temporary	
a. Birdsfoot trefoil*	8	f. Spring oats	96 (3 bu)
Redtop	3	g. Winter wheat	180 (3 bu)
b. Creeping red fescue	30	h. Winter rye	168 (3 bu)
Perennial ryegrass	10	i. Annual rye	40
c. Birdsfoot trefoil	8		
Timothy	4	*Recommended for somewhat poor and poorly drained soils in partial shade to full sunlight.	
d. White clover	1		
Kentucky bluegrass	6		
Timothy	2		
e. Annual ryegrass	10		
Redtop	10		
Birdsfoot trefoil	5		

Note: Birdsfoot trefoil and white clover seed should be properly inoculated.

Waterbar Spacing

Road Grade (% Slope)	Recommended Spacing (feet)
2	250
5	135
10	80
15	60
20	45
25	40
30	35
40	30

Waterbars



MATRIX FOR CALCULATING ACRES OF DISTURBED AREA

	WIDTH OF DISTURBED AREA (FT.)										WIDTH OF DISTURBED AREA (FT.)											
	20	40	60	80	100	120	140	160	180	200	20	40	60	80	100	120	140	160	180	200		
D											D	0.09	0.19	0.28	0.38	0.48	0.57	0.67	0.77	0.86	0.96	
I	20	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	I	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.01	
S	30	0.01	0.02	0.04	0.05	0.06	0.08	0.09	0.11	0.12	S	0.10	0.21	0.31	0.42	0.52	0.63	0.73	0.84	0.95	1.05	
T	40	0.01	0.03	0.05	0.07	0.09	0.11	0.12	0.14	0.16	T	0.11	0.22	0.33	0.44	0.55	0.66	0.77	0.88	0.99	1.10	
U	50	0.02	0.04	0.06	0.09	0.11	0.13	0.16	0.18	0.20	U	0.11	0.22	0.34	0.45	0.57	0.68	0.80	0.91	1.03	1.14	
R											R											
B	60	0.02	0.05	0.08	0.11	0.13	0.16	0.19	0.22	0.24	B	0.11	0.23	0.35	0.47	0.59	0.71	0.83	0.95	1.07	1.19	
E	70	0.03	0.06	0.09	0.12	0.16	0.19	0.22	0.25	0.28	E	0.12	0.24	0.37	0.49	0.61	0.74	0.86	0.99	1.11	1.23	
D	80	0.03	0.07	0.11	0.14	0.18	0.22	0.25	0.29	0.33	D	0.12	0.25	0.38	0.51	0.64	0.77	0.89	1.02	1.15	1.28	
	90	0.04	0.08	0.12	0.16	0.20	0.24	0.28	0.33	0.37		290	0.13	0.26	0.39	0.53	0.66	0.79	0.93	1.06	1.19	1.33
A	100	0.04	0.09	0.13	0.18	0.22	0.27	0.32	0.36	0.41	A	300	0.13	0.27	0.41	0.55	0.68	0.82	0.96	1.10	1.23	1.37
R											R											
E	110	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	E	310	0.14	0.28	0.42	0.56	0.71	0.85	0.99	1.13	1.28	1.42
A	120	0.05	0.11	0.16	0.22	0.27	0.33	0.38	0.44	0.49	A	320	0.14	0.29	0.44	0.58	0.73	0.88	1.02	1.17	1.32	1.46
	130	0.05	0.11	0.17	0.23	0.29	0.35	0.41	0.47	0.53		330	0.15	0.30	0.45	0.60	0.75	0.90	1.06	1.21	1.36	1.51
L	140	0.06	0.12	0.19	0.25	0.32	0.38	0.44	0.51	0.57	L	340	0.15	0.31	0.46	0.62	0.78	0.93	1.09	1.24	1.40	1.56
E	150	0.06	0.13	0.20	0.27	0.34	0.41	0.48	0.55	0.61	E	350	0.16	0.32	0.48	0.64	0.80	0.96	1.12	1.28	1.44	1.60
N											N											
G	160	0.07	0.14	0.22	0.29	0.36	0.44	0.51	0.58	0.66	G	360	0.16	0.33	0.49	0.66	0.82	0.99	1.15	1.32	1.48	1.65
T	170	0.07	0.15	0.23	0.31	0.39	0.46	0.54	0.62	0.70	T	370	0.16	0.33	0.50	0.67	0.84	1.01	1.18	1.35	1.52	1.69
H	180	0.08	0.16	0.24	0.33	0.41	0.49	0.57	0.66	0.74	H	380	0.17	0.34	0.52	0.69	0.87	1.04	1.22	1.39	1.57	1.74
	190	0.08	0.17	0.26	0.34	0.43	0.52	0.61	0.69	0.78		390	0.17	0.35	0.53	0.71	0.89	1.07	1.25	1.43	1.61	1.79
(R.)	200	0.09	0.18	0.27	0.36	0.45	0.55	0.64	0.73	0.82	(R.)	400	0.18	0.36	0.55	0.73	0.91	1.10	1.28	1.46	1.65	1.83

Erosion and Sediment Control Plan for a Timber Harvesting Operation

1. GENERAL INFORMATION

	Date
A. Location _____	_____
Municipality	County
B. Timber sale area = _____ acres	
C. Landowner _____	
Name	Home Phone _____ Work Phone _____
Street Address _____	
City _____ State _____ Zip Code _____	Signature of Landowner _____
D. Person(s) responsible for construction and maintenance of erosion and sediment control BMPs during earth disturbance activities. (NOTE: If duties are assigned to more than one party, list all others under Section 12 of this plan.)	
Name _____	Home Phone _____ Work Phone _____
Street Address _____	
City _____ State _____ Zip Code _____	Signature of person(s) responsible _____
E. Erosion and Sediment Control Plan prepared by:	
Name _____	Phone _____
Street Address _____	
City _____ State _____ Zip Code _____	Signature of Plan Preparer _____

2. TOPOGRAPHICAL MAP

The map must include the location of the project with respect to roadways, streams, wetlands, lakes, ponds, floodplains, type and extent of vegetation and other identifiable landmarks. A United States Geologic Service (USGS) quadrangle map may be used to show the existing topographical features of the project site and the immediate surrounding area. The map scale site must be large enough to clearly depict the topographical features of the project. Enlargements of the USGS quadrangle map are sufficient.

The scale and north arrow must be plainly marked. A complete legend of all symbols used on the map must also be included.

3. SOIL MAP

Soils information is available in soil survey reports, published by the USDA Natural Resource Conservation Service in cooperation with Penn State University, College of Agriculture and others. These reports are available for review at the county conservation district offices.

The soils drainage classes must be examined to determine areas with the best drainage for the placement of haul roads and log landings, and to determine proper retirement treatments.

Provide the following soils information for all disturbed areas.

Map Symbols	Soil Series	Limiting Characteristics ¹ That May Apply to Timber Harvesting Activities (Check as Appropriate)		
		Erosion Hazards ²		
		Slight	Moderate, severe	Seasonably Wet ³
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹ Soils with a moderate or severe erosion hazard or seasonably wet are poor choices for log landing and road locations, and, if possible, alternatives should be considered.

² The degree or ease by which soil particles can be detached from the soil surface. Moderate or severe ratings require additional consideration of soil erosion and sediment control BMPs during logging and road construction.

³ Somewhat poorly drained soils remain wet for a longer period after rain and would be susceptible to disturbance. These soils may be hydric, indicating a possible wetland. They may have to be logged during dry seasons, when the profile may be relatively dry, or when the soils are frozen. They are poor choices for log landing and road locations, and, if possible, alternate areas should be considered.

4. SKETCH MAP

The characteristics of the earth disturbance activity. The limits of the harvesting area must be shown on a map(s). Such information as the limits of clearing and grubbing and the areas of cuts and fills for roads and landings, and other proposed disturbances for the timber harvesting area are to be included. Roads, skid roads and landings located within 50 ft. of a stream bank may require a Department Chapter 105 Water Obstruction and Encroachment. The following should be clearly shown on the sketch map:

- Dimensions
- North Arrow
- Landings
- Haul Roads
- Skid Roads
- Wetland Crossings
- Stream Crossings
- Equipment Maintenance/Fueling Areas
- Existing Roads

5. RUNOFF

The amount of runoff from the timber harvest area and its upstream watershed area. You do not have to provide runoff calculations unless you plan to use BMPs different from those described in Section 8. If you use different BMPs, your calculations must include an analysis showing any impact that runoff may have on existing downstream watercourses and their resistance to erosion.

3. RECEIVING WATERS

All streams in Pennsylvania are classified based upon their designated and existing uses and water quality criteria. Designated uses for waters of this Commonwealth are found in 25 Pa. Code §93.9a-z at <http://www.pacode.com/secure/data/025/chapter93/chap93toc.html>. Existing uses of waters of this Commonwealth are found at the DEP Web site www.depweb.state.pa.us. Type the phrase "existing use" in the DEP Keyword box. The county conservation district office can also supply this information. List the bodies of water likely to receive direct runoff within or from the timber harvest area.

<u>Name</u>	<u>Designated/Existing Use</u>

7. ESTIMATED DISTURBED AREA

	Total Length (ft)	Average Width (ft)	Area (sq ft)
Haul Roads	_____	_____	= _____
Skid Roads	_____	_____	= _____
Landings	_____	_____	= _____
Total Area (sq. ft.)			= _____ + 43,560 sq ft/A = _____
<small>Acres disturbed by earth disturbance activities.</small>			

If the total area of earth disturbance activities (sum of area disturbed by haul roads, skid roads and landings) consists of 25 acres or more, an Erosion and Sediment Control Permit must be obtained.

Has application been made for required stream crossing permits? Yes No Not Applicable

At all stream crossing locations, runoff must be directed to a sediment removal area, i.e., filter strip, straw bale, silt fence, sump, a trap for treatment. Waterbars and/or broad based dips should be installed and maintained as required on the approaches to the stream crossing.

8. DESCRIPTION OF EROSION AND SEDIMENT CONTROL MEASURES

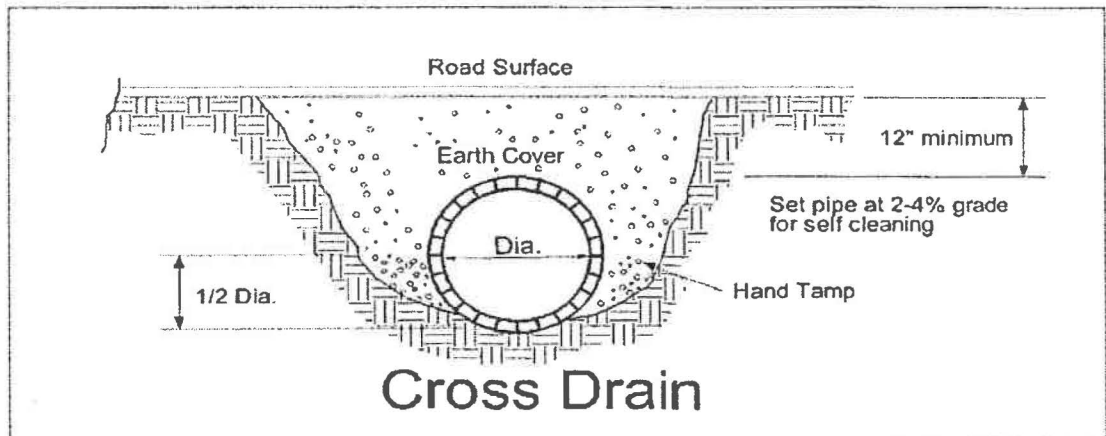
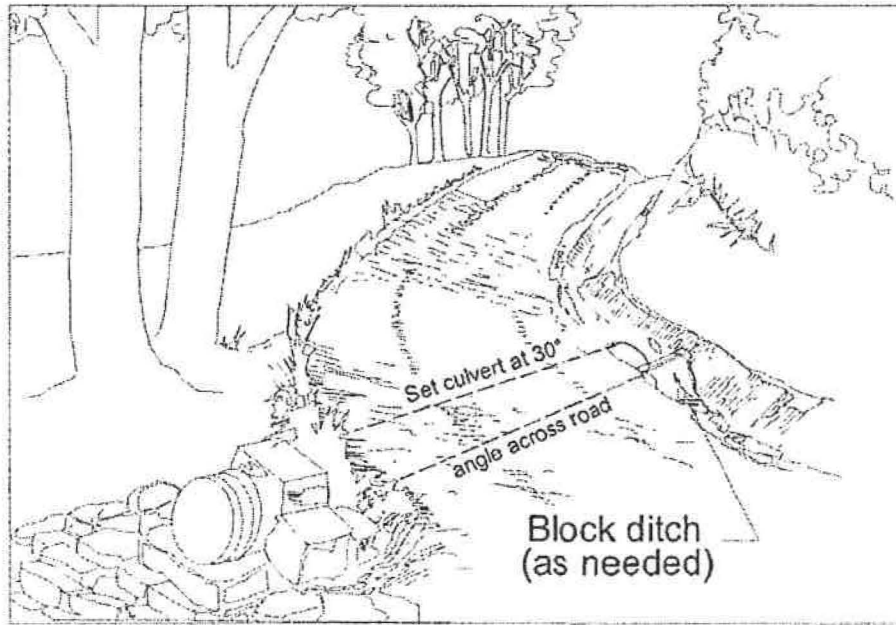
The following standard BMP drawings and recommended spacings (Sections A-H) have been provided to fulfill the requirements of this plan. If you plan to use any of these recommended BMPs, please check the appropriate boxes for Sections A through H. If you plan to use alternative BMPs, you must provide drawings showing the details, specifications and spacing.

A. Cross-drain culvert

Culverts will be installed before the ground freezes. Culverts shall be placed with a slope of 2 to 4 percent and cross the road at a 30-degree downslope angle. Recommend 12" pipe or larger culverts. Will this BMP be used? Yes No Will recommended spacing be used? Yes No

Road Grade (% Slope)	Recommended Spacing (feet)	Alternative Spacing* (feet)
2	500	_____
3	400	_____
4	350	_____
5-6	300	_____
7-8	250	_____
9-11	200	_____
12-13	150	_____
14+	100	_____

*If alternative spacings are used, please make sure reasons for their use are explained.



3. Waterbars

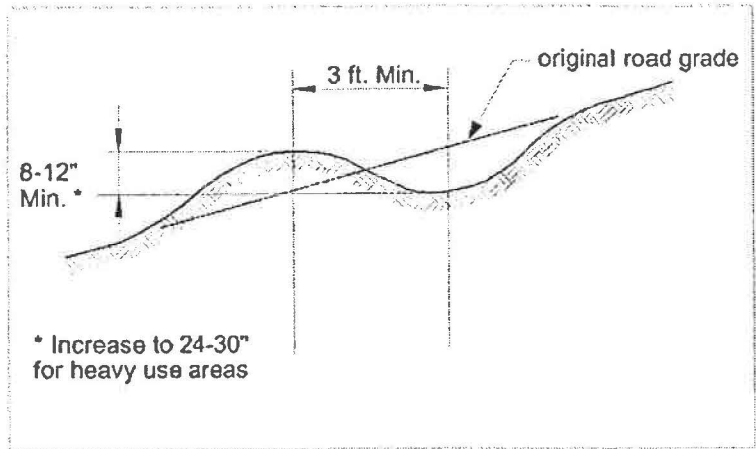
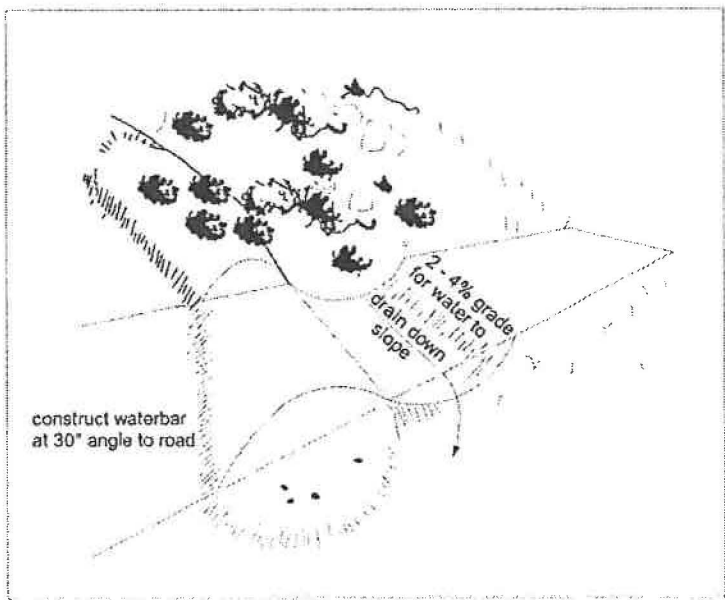
Waterbars on skid roads will be maintained throughout the entire job and installed permanently upon job completion.

Waterbars will be installed before the ground freezes and will be spaced as indicated below.

Will this BMP be used? Yes No Will recommended spacing be used? Yes No

Road Grade (% Slope)	Recommended Spacing (feet)	Alternative Spacing* (feet)
2	250	_____
5	135	_____
10	80	_____
15	60	_____
20	45	_____
25	40	_____
30	35	_____
40	30	_____

*If longer spacings are used, please make sure reasons for their use are explained.



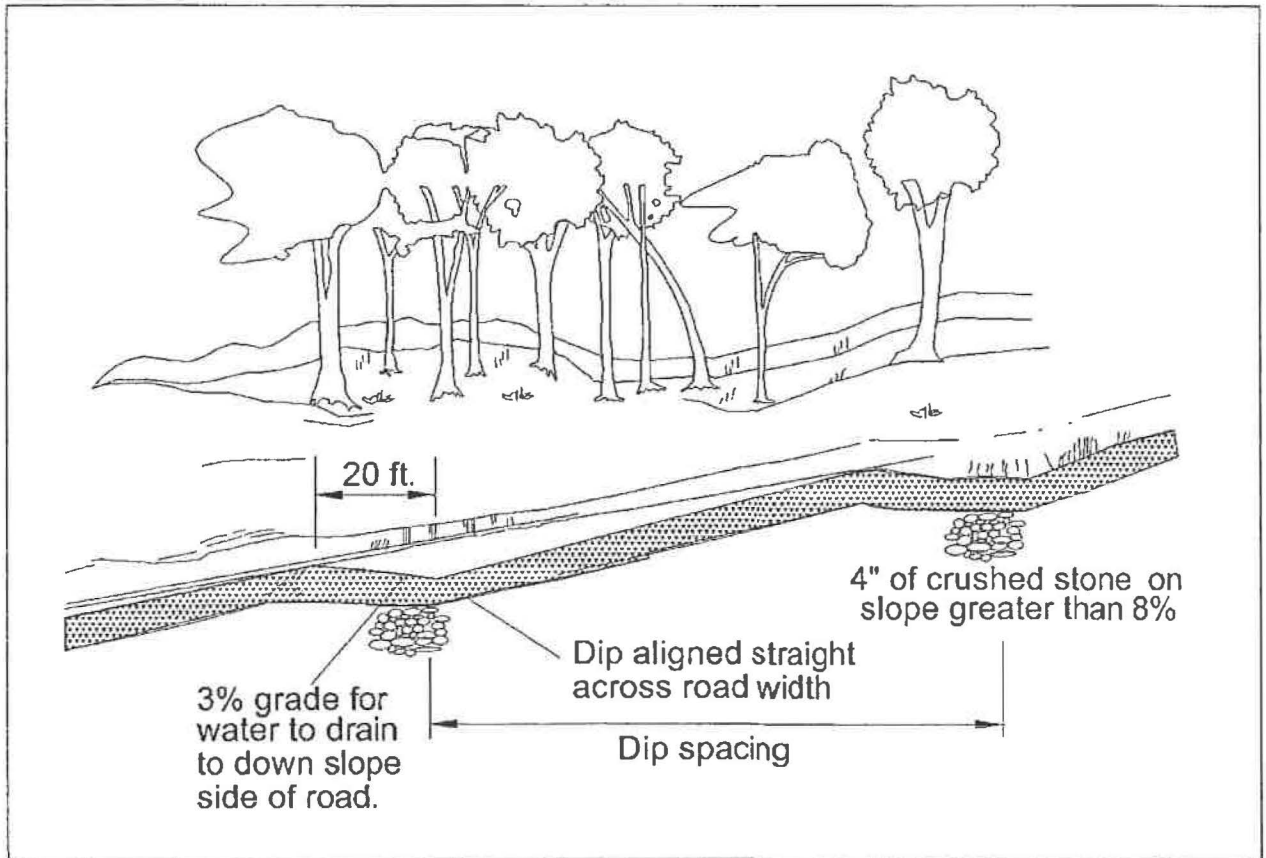
C. Broad-based dips

Broad-based dips will be installed and worked before the ground freezes. Broad-based dips on the road system are planned to be spaced as indicated below.

Will this BMP be used? Yes No Will recommended spacing be used? Yes No

Road Grade (% Slope)	Recommended Spacing (feet)	Alternative Spacing* (feet)
2	300	_____
3	250	_____
4	200	_____
5	180	_____
6	170	_____
7	160	_____
8	150	_____
9-10	140	_____

*If longer spacings are used, please make sure reasons for their use are explained.



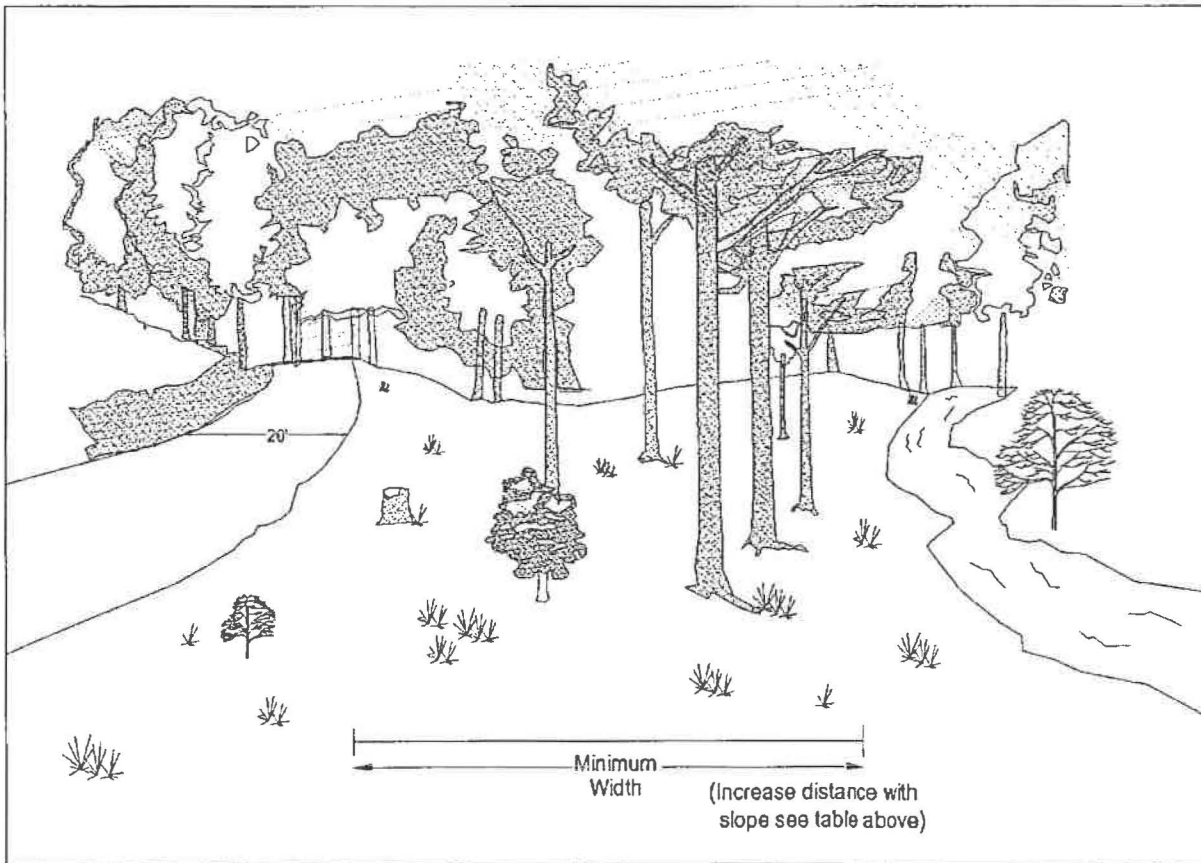
3. Filter strips

Filter strip widths by slope on land between roads and perennial streams.
 The width of the filter strip depends on the slope between the road and the stream.

Will this BMP be used? Yes No

Slope of Land Between Road and Stream (%)	Minimum width of Filter Strip (feet) +
0	25++
10	45++
20	65
30	85
40	105
50	125
60	145
70	165

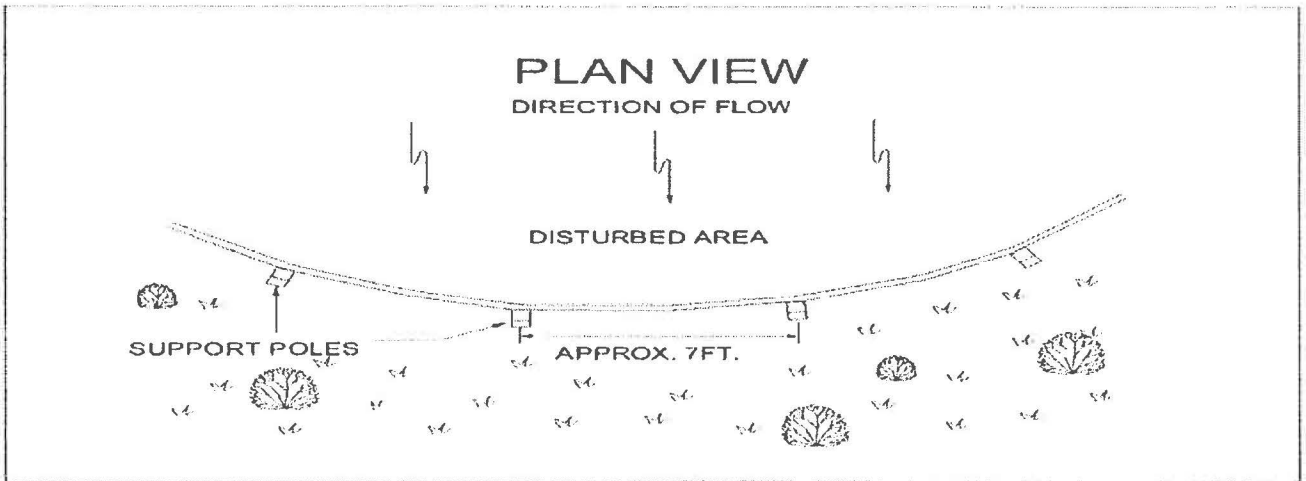
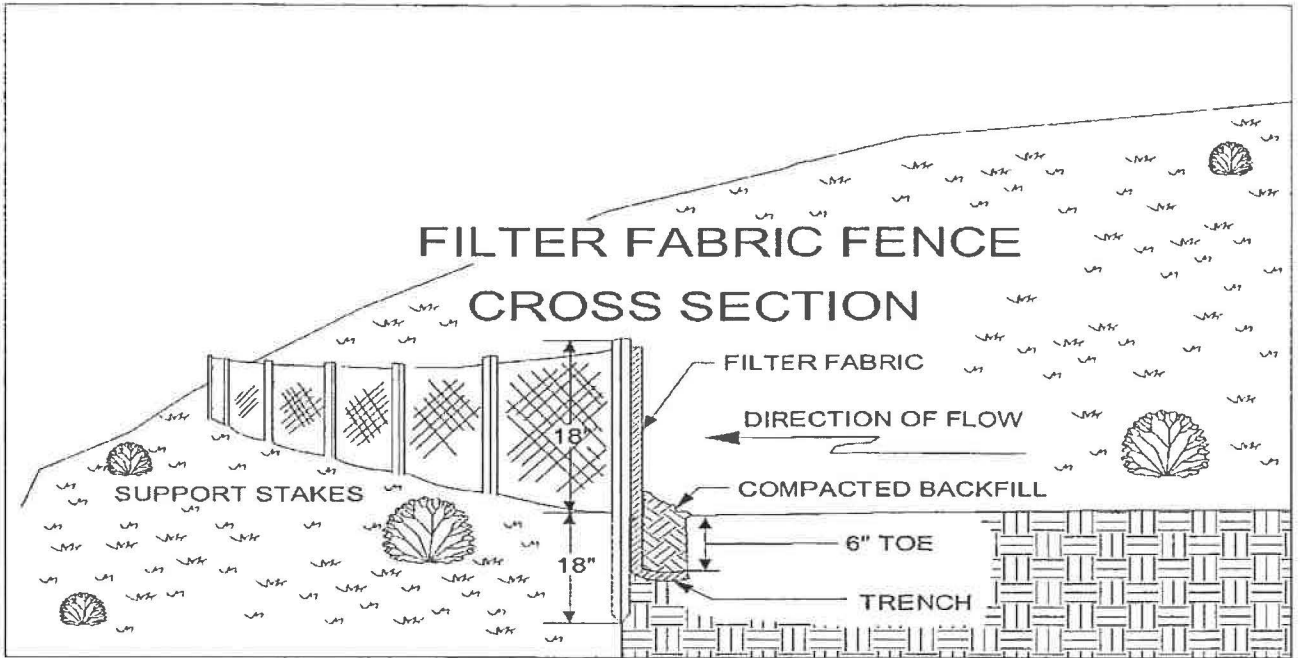
- + Widths should be doubled when the harvesting activity is located where receiving waters have a designated use/existing use of High Quality or Exceptional Value or within a municipal water supply, source water area.
- ++ Earth disturbance 50 feet or less from a stream requires a water obstruction and encroachment permit from the appropriate DEP Regional Office, Soils and Waterways Section.



E. Filter Fabric Fence

Filter fabric fence must be installed on contour at the edge of disturbed areas. Both ends of each fence section must be extended upslope at 45 degrees to the main fence alignment. They should not be installed in streams, ditches or other areas of concentrated flow. Install filter fabric fence before the ground freezes.

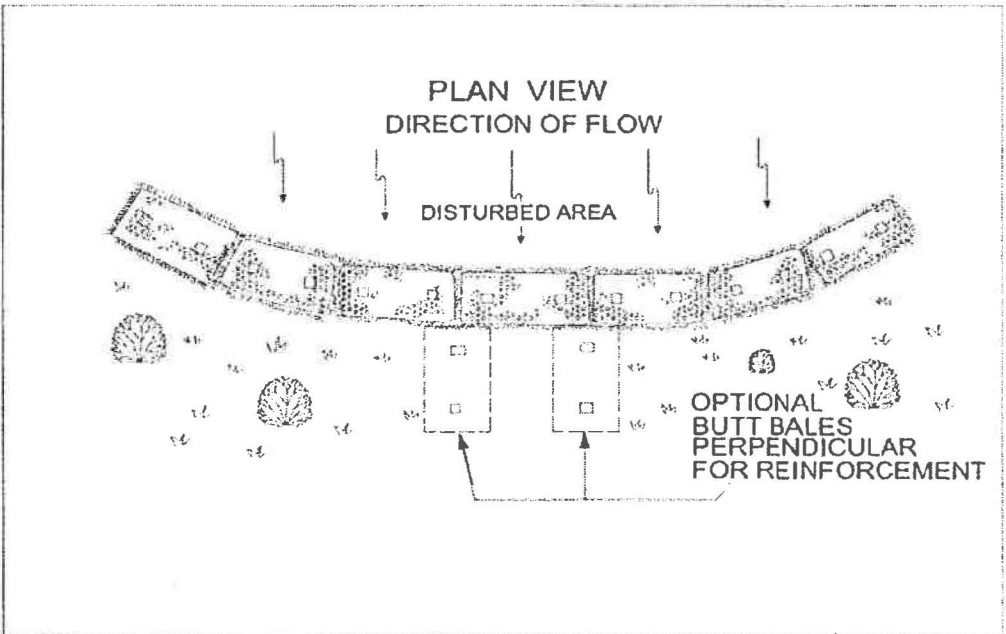
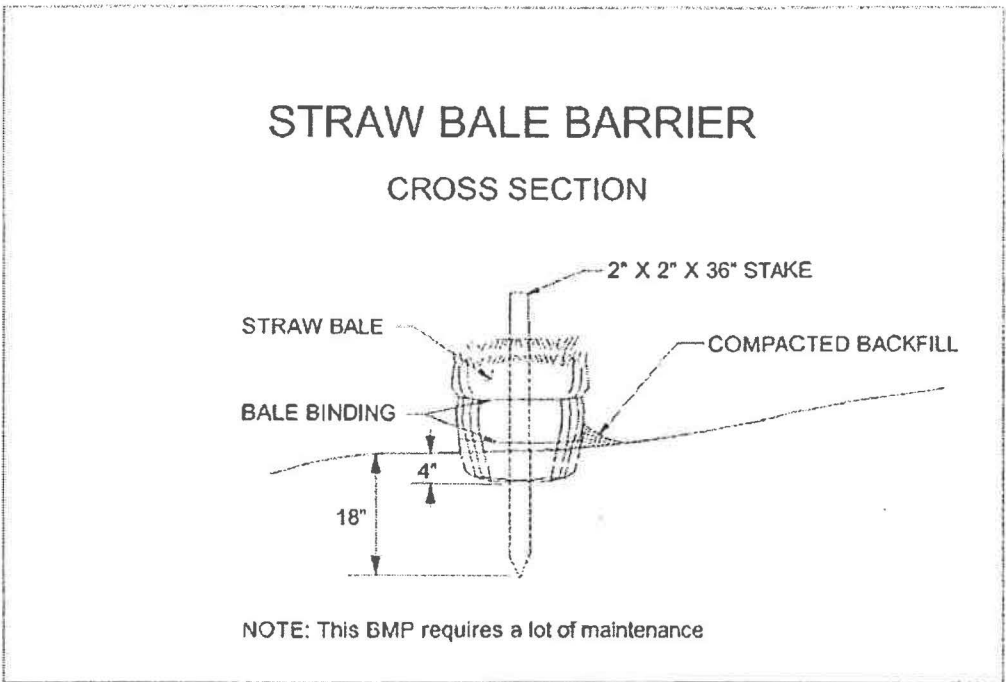
Will this BMP be used? Yes No



F. Straw Bale Barrier

Straw bale barriers shall be placed on contour at the edge of disturbed areas. Both ends of the barrier shall be extended upslope at 45 degrees to the main barrier alignment. Straw bales deteriorate and should be replaced every 3-4 months. They should not be installed in streams, ditches or other areas of concentrated flow.

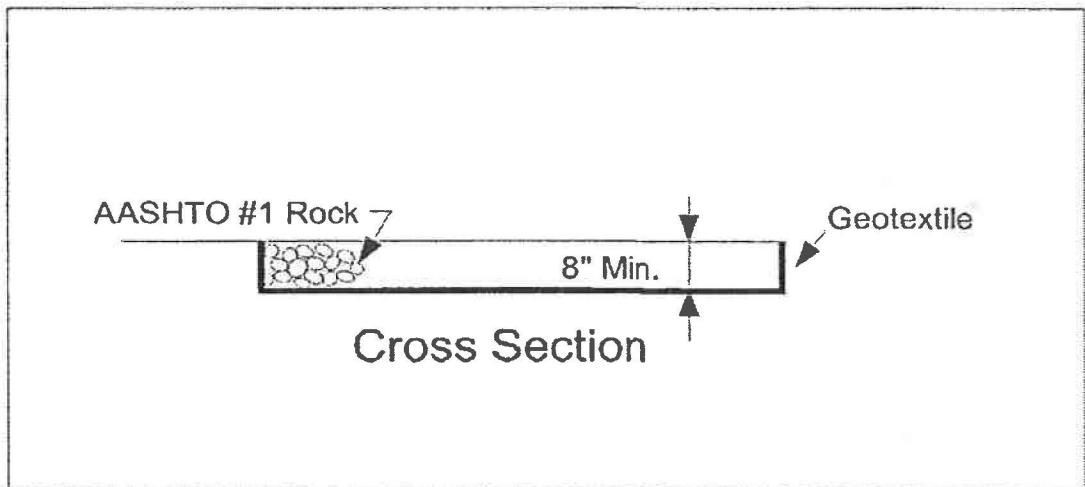
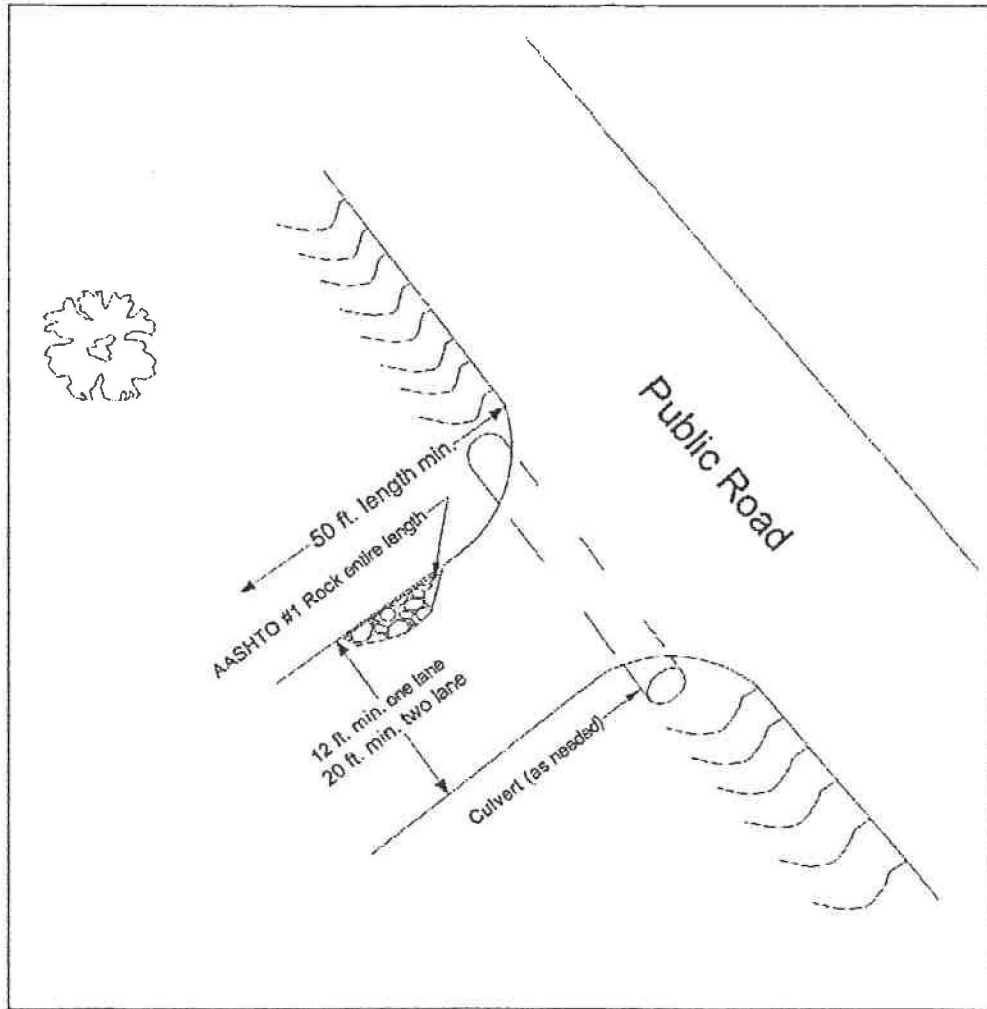
Will this BMP be used? Yes No



G. Stabilized Road Entrance

The purpose is to remove mud from tires and keep it off the road. Construction entrance shall be constantly maintained.

Will this BMP be used? Yes No



i. Disturbed Area Stabilization (check as appropriate)

	Seeding ^{4,5}	Natural Vegetation ⁵
Log Landing ⁶	<input type="checkbox"/>	<input type="checkbox"/>
Haul Roads ⁶	<input type="checkbox"/>	<input type="checkbox"/>
Skid Roads ⁶	<input type="checkbox"/>	<input type="checkbox"/>

Seed mix and seeding rate to be used on critical areas:

Suggested Seeding Mixes for Landings, Roads and Critical Areas

Mixes	Seeding rate (lb/ acre)	Mixes	Seeding rate (lb/acre)
Permanent		Temporary	
a. Birdsfoot trefoil*	8	f. Spring oats	96 (3 bu)
Redtop	3	g. Winter wheat	180 (3 bu)
b. Creeping red fescue	30	h. Winter rye	168 (3 bu)
Perennial ryegrass	10	i. Annual rye	40
c. Birdsfoot trefoil	8		
Timothy	4		
d. White clover	1		
Kentucky bluegrass	6		
Timothy	2		
e. Annual ryegrass	10		
Redtop	10		
Birdsfoot trefoil	5		

*Recommended for somewhat poor and poorly drained soils in partial shade to full sunlight.

Note: Birdsfoot trefoil and white clover seed should be properly inoculated.

9. SCHEDULE AND SEQUENCE OF OPERATIONS

Will this schedule be used? Yes No If not, provide additional information in Section 12.

Starting Date _____ Completion Date _____

Pre-harvest: Necessary permits will be obtained. Erosion and sediment control BMPs will be installed as specified in this plan. Haul road, landings and skid roads will be constructed.

During harvest: Erosion and sediment control BMPs for haul roads, skid roads and landings shall be maintained. Tops, branches and slash will be removed from ponds, lakes and streams. This plan will be amended or revised to include other BMPs for special or unanticipated circumstances that may occur.

Post harvest: Smooth and reshape roads and landings. Remove culverts and crossings. Install permanent waterbars as specified in this plan. Critical areas will be seeded, fertilized, limed and mulched and garbage/trash removed from the area.

10. MAINTENANCE

BMPs will be inspected on a weekly basis and after each measurable rainfall event.

Culverts will be cleaned out, repaired or replaced as necessary.

Filter strips will be maintained and respected (timber may be harvested in filter strips).

Haul roads and skid roads will be repaired where signs of accelerated erosion are detected.

Seeding and mulching will be repeated in those areas that appear to be failing or have failed.

Other (describe)

⁴ Areas to be seeded may require fertilization and liming. Soil testing will provide individualized recommendations for given sites. Recommendations of 300 lbs. of 10-10-10 fertilizer per acre and 2,000 lbs. of lime per acre should be considered to ensure 70% vegetative cover. Seeded areas will be more successful when mulched with a minimum of 2.5 tons of straw or hay per acre. Describe mulching type and rate in Section 12 when used.

⁵ Stabilization of disturbed areas is important. Disturbed areas shall be protected with such BMPs as straw bale barriers, filter fences, mulch, or filter strips, waterbars and other BMPs until vegetation is established. Critical areas such as: highly erodible soils, approaches to stream crossings and landings require establishment of permanent or temporary cover to ensure that erosion does not occur.

⁶ Indicates treatments for individual landings, haul roads or sections, and skid roads identified on the map.

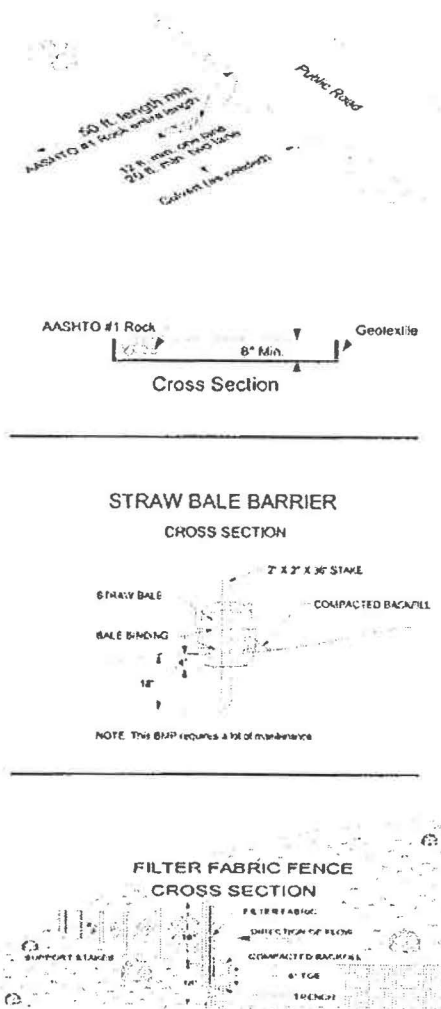
11. SITE CLEANUP

Describe procedures which ensure the proper handling, storage, control, disposal and recycling of timber harvesting materials and waste, including but not limited to fuels, oil, lubricants and other materials brought to the timber harvest site or used in the process of timber harvesting.

- Garbage, fuels or any substance harmful to human, aquatic or fish life, will be prevented from entering springs, streams, ponds, lakes, wetlands or any water course or water body.
- Oils, fuels, lubricants and coolants will be placed in suitable containers and disposed properly.
- All trash and garbage will be collected and disposed properly.
- Other (describe).

12. ADDITIONAL EXPLANATION/COMMENTS (if needed)

MATRIX FOR CALCULATING ACRES OF DISTURBED AREA



	WIDTH OF SKID TRAIL OR HAUL ROAD (FT.)										
	8	10	12	14	16	20	25	30	35	40	
L E N G T H	50	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04
	100	0.01	0.02	0.02	0.03	0.03	0.04	0.05	0.06	0.08	0.09
	150	0.02	0.03	0.04	0.04	0.05	0.06	0.08	0.10	0.12	0.13
	200	0.03	0.04	0.05	0.06	0.07	0.09	0.11	0.13	0.16	0.18
	250	0.04	0.05	0.06	0.08	0.09	0.11	0.14	0.17	0.20	0.22
	300	0.05	0.06	0.08	0.09	0.11	0.13	0.17	0.20	0.24	0.27
	350	0.06	0.08	0.09	0.11	0.12	0.16	0.20	0.24	0.28	0.32
	400	0.07	0.09	0.11	0.12	0.14	0.18	0.22	0.27	0.32	0.36
	450	0.08	0.10	0.12	0.14	0.16	0.20	0.25	0.30	0.36	0.41
	500	0.09	0.11	0.13	0.16	0.18	0.22	0.28	0.34	0.40	0.45
O F	550	0.10	0.12	0.15	0.17	0.20	0.25	0.31	0.37	0.44	0.50
	600	0.11	0.13	0.16	0.19	0.22	0.27	0.34	0.41	0.48	0.55
	650	0.11	0.14	0.17	0.20	0.23	0.29	0.37	0.44	0.52	0.59
	700	0.12	0.16	0.19	0.22	0.25	0.32	0.40	0.48	0.56	0.64
	750	0.13	0.17	0.20	0.24	0.27	0.34	0.43	0.51	0.60	0.68
	800	0.14	0.18	0.22	0.25	0.29	0.36	0.45	0.55	0.64	0.73
	850	0.15	0.19	0.23	0.27	0.31	0.39	0.48	0.58	0.68	0.78
	900	0.16	0.20	0.24	0.28	0.33	0.41	0.51	0.61	0.72	0.82
	950	0.17	0.21	0.26	0.30	0.34	0.43	0.54	0.65	0.76	0.87
	T R A I L	1000	0.18	0.22	0.27	0.32	0.36	0.45	0.57	0.68	0.80
1050		0.19	0.24	0.28	0.33	0.38	0.48	0.60	0.72	0.84	0.96
1100		0.20	0.25	0.30	0.35	0.40	0.50	0.63	0.75	0.88	1.01
1150		0.21	0.26	0.31	0.36	0.42	0.52	0.66	0.79	0.92	1.05
1200		0.22	0.27	0.33	0.38	0.44	0.55	0.68	0.82	0.96	1.10
1250		0.22	0.28	0.34	0.40	0.45	0.57	0.71	0.86	1.00	1.14
1300		0.23	0.29	0.35	0.41	0.47	0.59	0.74	0.89	1.04	1.19
1350		0.24	0.30	0.37	0.43	0.49	0.61	0.77	0.92	1.08	1.23
1400		0.25	0.32	0.38	0.44	0.51	0.64	0.80	0.96	1.12	1.28
1450		0.26	0.33	0.39	0.46	0.53	0.66	0.83	0.99	1.16	1.33
O R	1500	0.27	0.34	0.41	0.48	0.55	0.68	0.86	1.03	1.20	1.37
	1550	0.28	0.35	0.42	0.49	0.56	0.71	0.88	1.06	1.24	1.42
	1600	0.29	0.36	0.44	0.51	0.58	0.73	0.91	1.10	1.28	1.46
	1650	0.30	0.37	0.45	0.53	0.60	0.75	0.94	1.13	1.32	1.51
	1700	0.31	0.39	0.46	0.54	0.62	0.78	0.97	1.17	1.36	1.56
	1750	0.32	0.40	0.48	0.56	0.64	0.80	1.00	1.20	1.40	1.60
	1800	0.33	0.41	0.49	0.57	0.66	0.82	1.03	1.23	1.44	1.65
	1850	0.33	0.42	0.50	0.59	0.67	0.84	1.06	1.27	1.48	1.69
	1900	0.34	0.43	0.52	0.61	0.69	0.87	1.09	1.30	1.52	1.74
	H A U L	1500	0.27	0.34	0.41	0.48	0.55	0.68	0.86	1.03	1.20
1550		0.28	0.35	0.42	0.49	0.56	0.71	0.88	1.06	1.24	1.42
1600		0.29	0.36	0.44	0.51	0.58	0.73	0.91	1.10	1.28	1.46
1650		0.30	0.37	0.45	0.53	0.60	0.75	0.94	1.13	1.32	1.51
1700		0.31	0.39	0.46	0.54	0.62	0.78	0.97	1.17	1.36	1.56
1750		0.32	0.40	0.48	0.56	0.64	0.80	1.00	1.20	1.40	1.60
1800		0.33	0.41	0.49	0.57	0.66	0.82	1.03	1.23	1.44	1.65
1850		0.33	0.42	0.50	0.59	0.67	0.84	1.06	1.27	1.48	1.69
1900		0.34	0.43	0.52	0.61	0.69	0.87	1.09	1.30	1.52	1.74
R O A D		1500	0.27	0.34	0.41	0.48	0.55	0.68	0.86	1.03	1.20
	1550	0.28	0.35	0.42	0.49	0.56	0.71	0.88	1.06	1.24	1.42
	1600	0.29	0.36	0.44	0.51	0.58	0.73	0.91	1.10	1.28	1.46
	1650	0.30	0.37	0.45	0.53	0.60	0.75	0.94	1.13	1.32	1.51
	1700	0.31	0.39	0.46	0.54	0.62	0.78	0.97	1.17	1.36	1.56
	1750	0.32	0.40	0.48	0.56	0.64	0.80	1.00	1.20	1.40	1.60
	1800	0.33	0.41	0.49	0.57	0.66	0.82	1.03	1.23	1.44	1.65
	1850	0.33	0.42	0.50	0.59	0.67	0.84	1.06	1.27	1.48	1.69
	1900	0.34	0.43	0.52	0.61	0.69	0.87	1.09	1.30	1.52	1.74
	(F T.)	1500	0.27	0.34	0.41	0.48	0.55	0.68	0.86	1.03	1.20
1550		0.28	0.35	0.42	0.49	0.56	0.71	0.88	1.06	1.24	1.42
1600		0.29	0.36	0.44	0.51	0.58	0.73	0.91	1.10	1.28	1.46
1650		0.30	0.37	0.45	0.53	0.60	0.75	0.94	1.13	1.32	1.51
1700		0.31	0.39	0.46	0.54	0.62	0.78	0.97	1.17	1.36	1.56
1750		0.32	0.40	0.48	0.56	0.64	0.80	1.00	1.20	1.40	1.60
1800		0.33	0.41	0.49	0.57	0.66	0.82	1.03	1.23	1.44	1.65
1850		0.33	0.42	0.50	0.59	0.67	0.84	1.06	1.27	1.48	1.69
1900		0.34	0.43	0.52	0.61	0.69	0.87	1.09	1.30	1.52	1.74

THE PROFESSIONAL TIMBER HARVESTER

- IS COMMITTED TO WISE STEWARDSHIP OF NATURAL RESOURCES
- PLANS, IMPLEMENTS AND MAINTAINS SOUND EROSION AND SEDIMENT POLLUTION CONTROL MEASURES

For more information, contact:

Department of Environmental Protection
 Bureau of Watershed Management
 Division of Waterways, Wetlands and Stormwater Management
 P.O. Box 8775
 Harrisburg, PA 17105-8775
 Phone: 717-787-6827

For more information, visit www.depweb.state.pa.us, keyword: Erosion Control.

TECHNICAL ASSISTANCE

It is best to seek technical assistance first from the County Conservation District. District offices or headquarters are generally located in the county seat. Conservation districts offer technical assistance on soils, erosion and sediment control, water obstruction and encroachment permits and conservation planning for best land use.

PENNSYLVANIA FISH AND BOAT COMMISSION

Waterways conservation officers are responsible for technical assistance and supervision in carrying out fish and aquatic life conservation activities and enforcement of fish and boating laws, and other state laws and regulations under memorandums of understanding with other governmental agencies.

NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

The NRCS, formerly the Soil Conservation Service (SCS), is the technical branch of the US Department of Agriculture. The agency provides technical services for establishing conservation practices, making reviews and recommendations, and developing soil and water conservation projects. The NRCS generally works through and in support of County Conservation Districts and has offices in most counties.

PENN STATE COOPERATIVE EXTENSION (PSU-CE)

Agents and resource specialists are located in Cooperative Extension offices in each county seat. Extension has close ties with The Pennsylvania State University and the agricultural community. Extension offices can provide assistance in soil testing, lime and fertilizer requirements, and seed mixtures.

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES (DCNR) BUREAU OF FORESTRY - DISTRICT FORESTRY OFFICE

State service foresters are available, when requested, to assist with workshops organized by County Conservation Districts on timber harvesting erosion and sediment control; to help timber harvesters individually become familiar with the preparation of erosion and sediment control plans; and to provide technical assistance for resolving unusual problems of timber harvesting erosion and sediment control. State service foresters may be reached by contacting the appropriate District Forestry office. Addresses and telephone numbers for those offices are available from the County Conservation District office.

CONSULTANT AND INDUSTRIAL FORESTERS

Many private consulting and industrial foresters have considerable experience in timber sale administration and logging road design. A list of these foresters can be obtained from the state service forester.

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) BUREAU OF WATERSHED MANAGEMENT (DEP - BWM)

DEP-BWM, working through County Conservation Districts, is responsible for the administration of the Erosion and Sediment Control Program, as well as for policy development and training. The DEP-BWM staff works in coordination with DEP Regional Offices, as well as, other state, federal and local agencies.

DEP REGIONAL OFFICE - PERMITTING AND TECHNICAL SERVICES SECTION

The Permitting and Technical Services Section of each regional office provides technical assistance, permit issuance, and enforcement for stream crossings and earth disturbance activities.

DEP DIVISION OF WATERWAYS, WETLANDS AND STORMWATER MANAGEMENT (DEP - WWSM)

WWSM administers laws and regulations related to flood plain management, water obstructions, wetlands and erosion and sediment control.

U.S. FOREST SERVICE (USFS)

Allegheny National Forest rangers are available for consultation on USFS policy and cooperation. They can be reached through the Forest Supervisor's office in Warren, PA.

U.S. ARMY CORPS OF ENGINEERS (COE)

Three Army Corps districts encompass Pennsylvania: Baltimore, Philadelphia and Pittsburgh. The COE is responsible for developing studies, programs and construction projects affecting land and water resources.

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PennDOT)

Pennsylvania has 11 PennDOT district offices. The Department is responsible for issuance of entranceway and road bond permits for state roadways.

LOCAL MUNICIPALITY

Check with the local municipality for ordinances regulating timber harvesting activities and municipal roadway usage.

THIS PUBLICATION WAS DEVELOPED IN COOPERATION WITH:

THE PENNSYLVANIA STATE UNIVERSITY
COLLEGE OF AGRICULTURE
COOPERATIVE EXTENSION
UNIVERSITY PARK, PA

AND

THE CAMBRIA COUNTY CONSERVATION DISTRICT,
EBENSBURG, PA

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
As principal, and the _____
A corporation duly created and existing under the laws of the State of Pennsylvania, and having its principal office in _____, as surety, are held, and firmly bound unto the Township of Hellam as Oblige in the sum of _____ dollars, lawful money of the United States, to be paid to the said Township of Hellam or to its certain attorneys, executors, administrators, successors or assigns: to the payment whereof we bind ourselves and each of us, our and each of our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into an agreement or agreements with the oblige to:

Maintain 100 L.F. of Spring Rd both east and west from the centerline of the hauling access way.

NOW THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, That if the above bounden principal shall in all respects comply with the terms and conditions of said permit and fully meet and perform his, their or its obligations thereunder, and shall well and truly and in a manner satisfactory to The Township of Hellam complete the work permitted and save harmless the Township of Hellam from any expense incurred through the failure of said principal to comply with the terms and conditions of said permit or from any damage growing out of the negligence of the said principal, or his, their or its agents or employees then the above obligation to be void and of none effect; otherwise to remain in full force and virtue in law.

The Township of Hellam requires that a performance bond be kept on file for a minimum of 30 days from the date of the oversize / overweight move unless otherwise specified. This is an office policy due to the excessive size/weight where damages may not be immediate to ensure potential coverage of costs associated with a particular move.

IN TESTIMONY WHEREOF, the said Principal has hereunto set his hand and seal and the said Surety has caused this instrument of writing to be executed.

Signed, sealed and dated this _____ day of _____ 20_____.

WITNESS AS TO PRINCIPAL _____ (SEAL)

WITNESS AS TO SURETY: _____ By _____ (SEAL)

