

TABLE 3.31-B
(Revised June 2003)
TEMPORARY SEEDING SPECIFICATIONS
QUICK REFERENCE FOR ALL REGIONS

| APPLICATION DATES | SPECIES | APPLICATION RATES |
|-------------------|---|---------------------|
| Sept. 1 - Feb. 15 | 50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale) | 50 - 100 (lbs/acre) |
| Feb. 16 - Apr. 30 | Annual Ryegrass (lolium multi-florum) | 60 - 100 (lbs/acre) |
| May 1 - Aug. 31 | German Millet | 50 (lbs/acre) |

FERTILIZER & LIME

- Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

- 1 - A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- 2 - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- 3 - When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin* # 4, 2003 Nutrient Management for Development Sites at <http://www.dor.state.va.us/sw/le&s.htm#pubs>

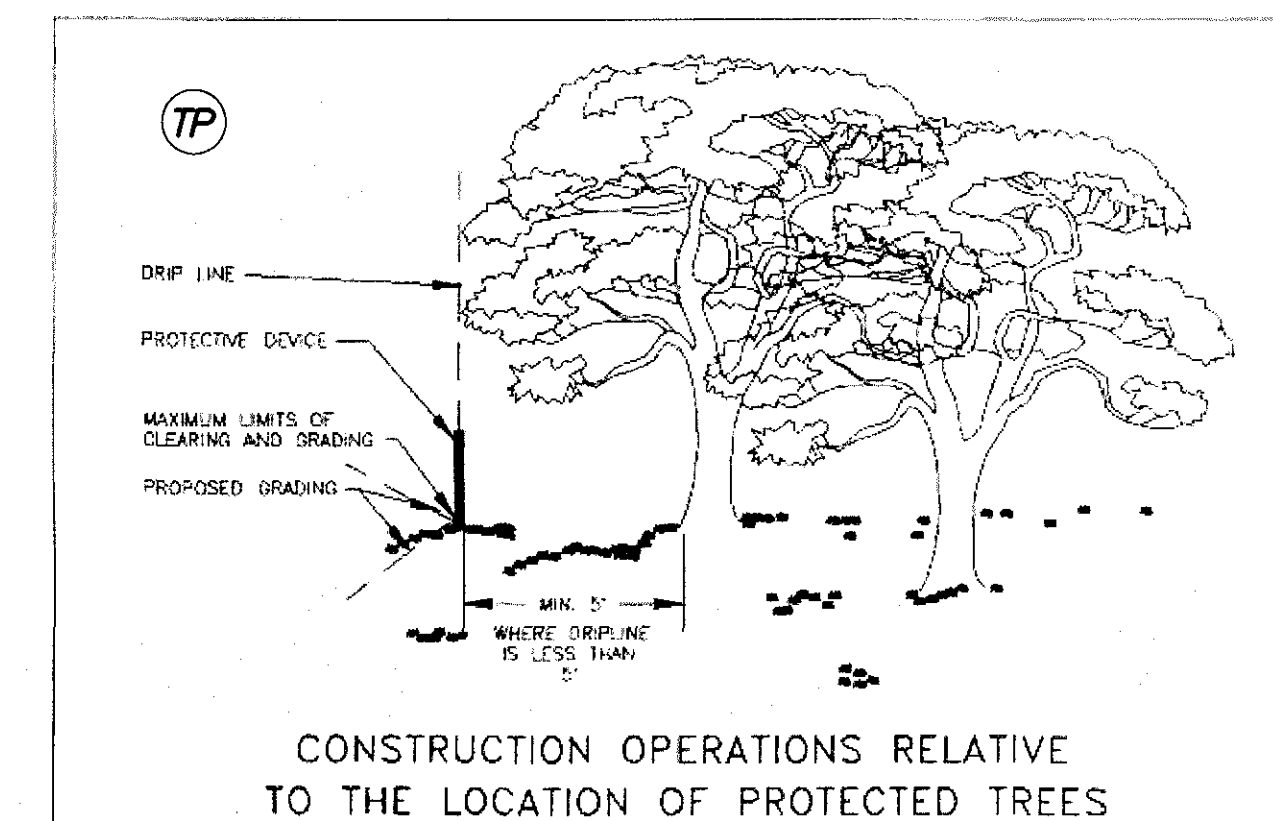


TABLE 3.32-C
(Revised June 2003)
PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA

| LAND USE | SPECIES | APPLICATION RATES |
|--|---|-------------------|
| Minimum Care Lawn | Tall Fescue ¹ | 90-100% |
| Commercial or Residential | Perennial Ryegrass ² | 0-10% |
| | Kentucky Bluegrass ³ | 0-10% |
| | TOTAL: 200-250 lbs | |
| High-Maintenance Lawn | Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia ⁴ | TOTAL: 125 lbs |
| General Slope (3:1 or less) | Tall Fescue ¹ | 125 lbs |
| | Red Top Grass or Creeping Red Fescue | 2 lbs |
| | Seasonal Nurse Crop ⁵ | 20 lbs |
| | TOTAL: 150 lbs | |
| Low-Maintenance Slope (Steeper than 3:1) | Tall Fescue ¹ | 100 lbs |
| | Red Top Grass or Creeping Red Fescue | 2 lbs |
| | Seasonal Nurse Crop ⁵ | 20 lbs |
| | Crownvetch ⁶ | 20 lbs |
| | TOTAL: 150 lbs | |

NOTE:

- 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804-749-4884 or at <http://sudan.ces.vt.edu/turf/turfpublications/publications2.htm>
- 2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescue, thereby providing cover and erosion resistance for seedbed.
- 3 - Use seasonal nurse crop in accordance with seeding dates as stated below:
March-April - May 15th Annual Rye
May 15th - August 15th Fodder Millet
August 15th - September, October Annual Rye
November - February Winter Rye
- 4 - All legume seed must be properly inoculated. If Flapleaf is used, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.
- 5 - Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- 6 - Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in *Erosion & Sediment Control Technical Bulletin* # 4, 2003 Nutrient Management for Development Sites at <http://www.dor.state.va.us/sw/le&s.htm#pubs>

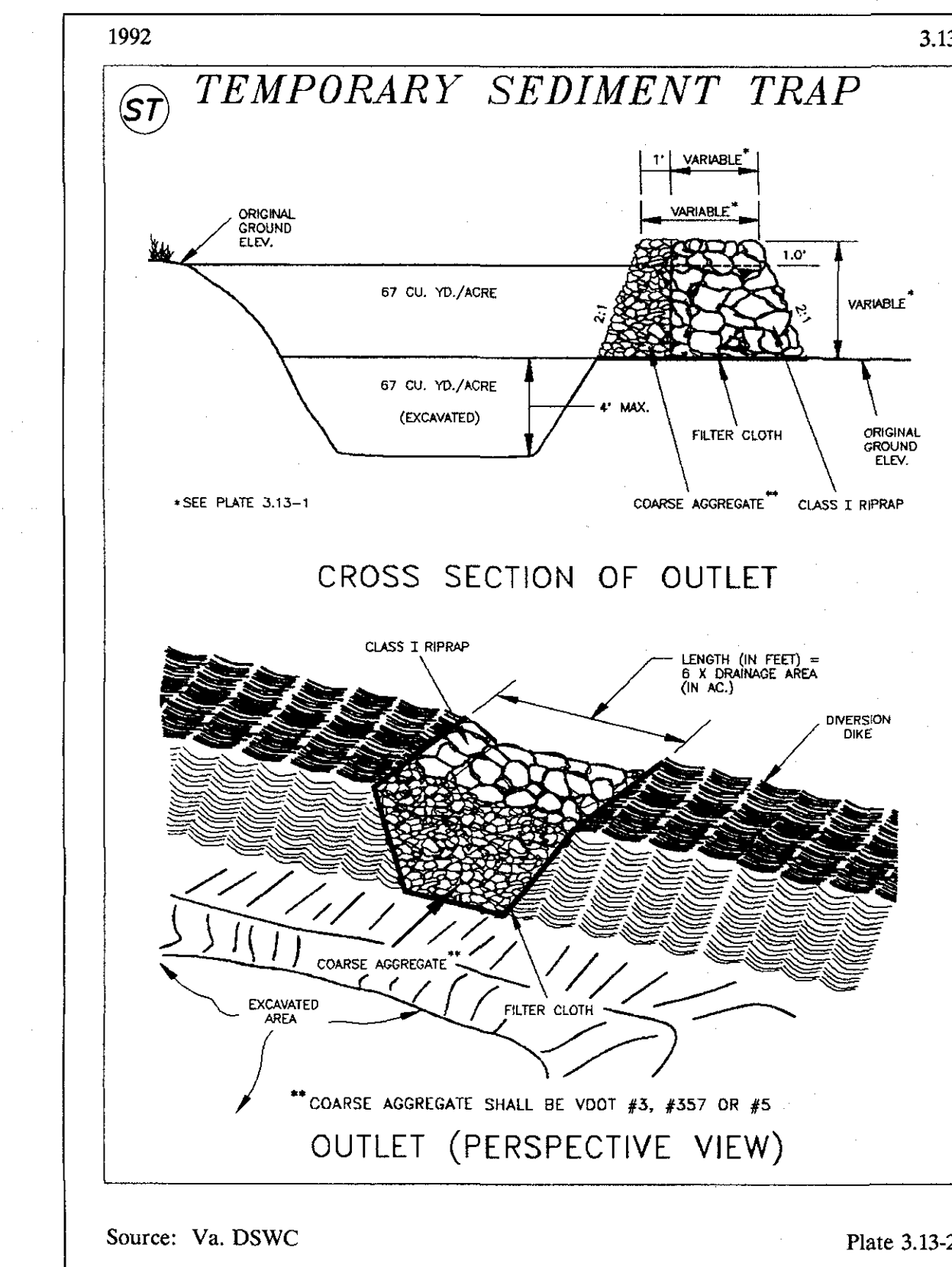
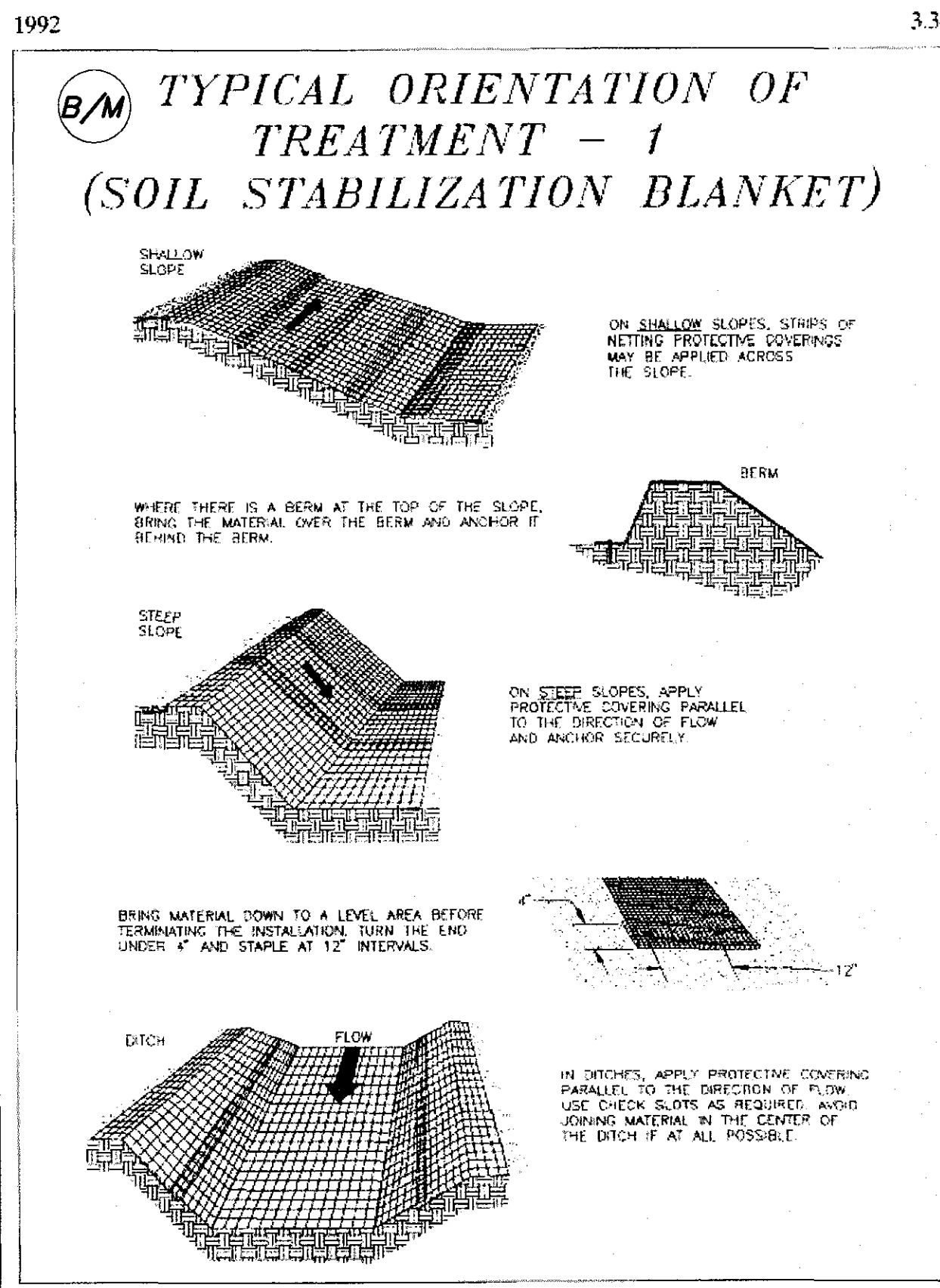
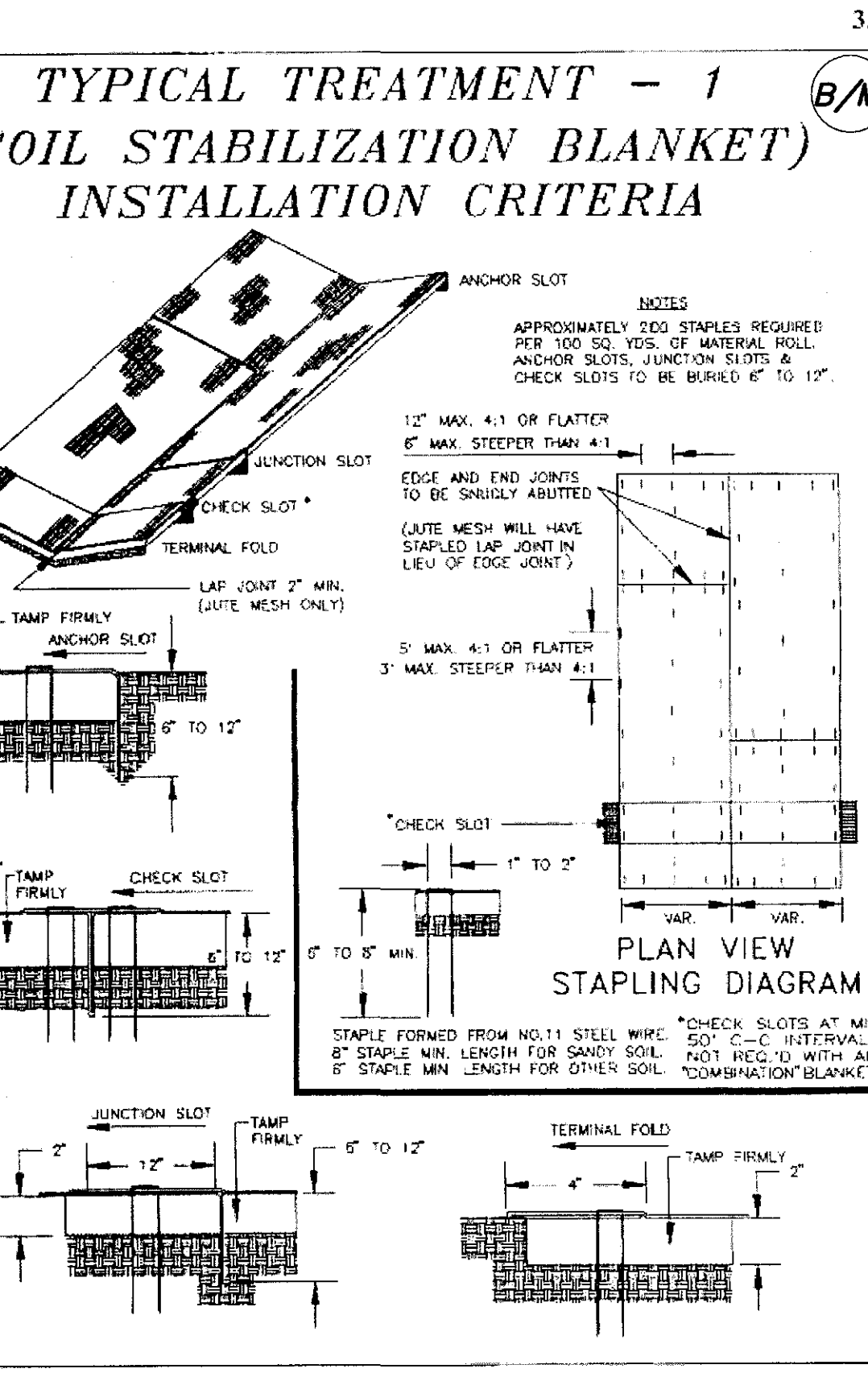
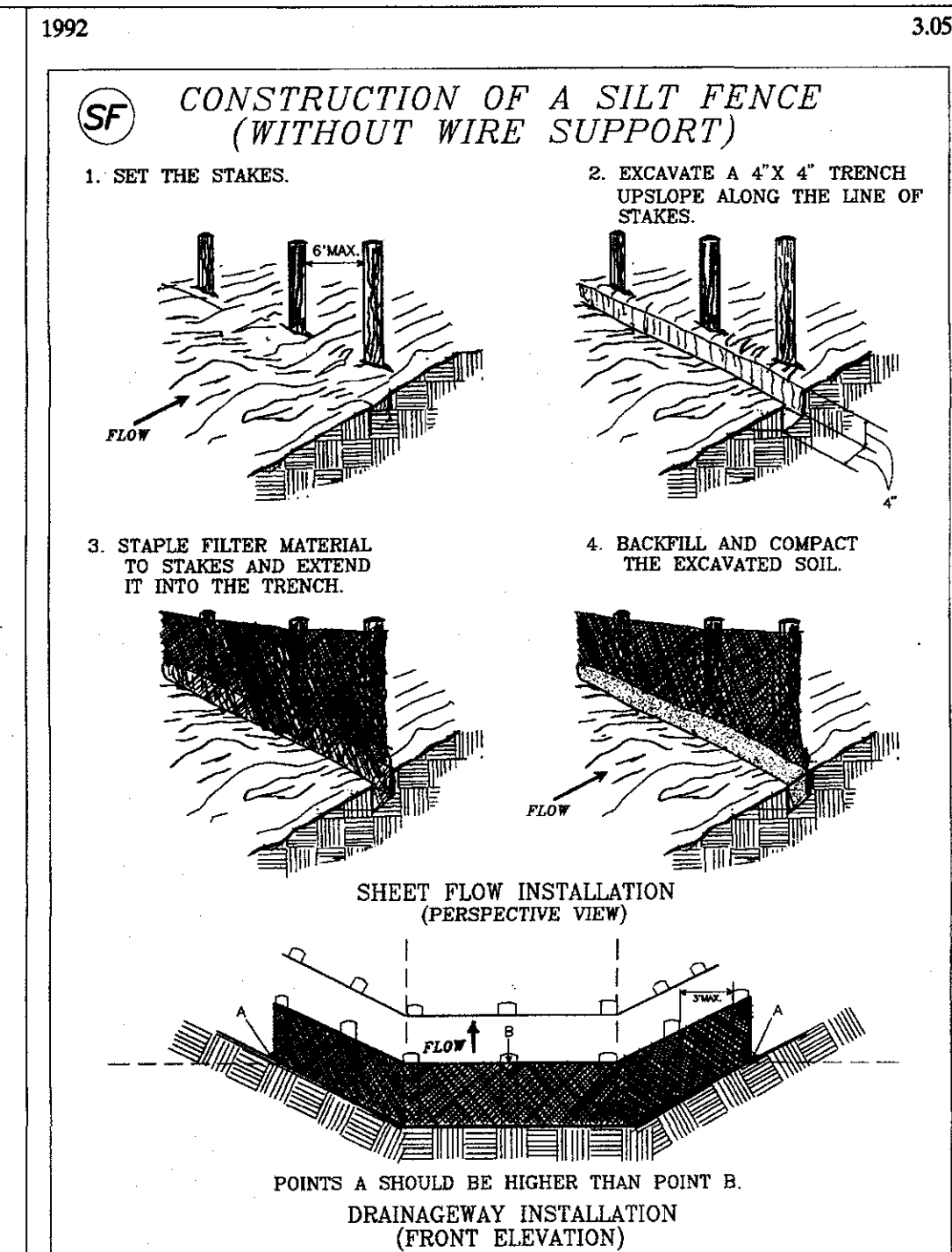
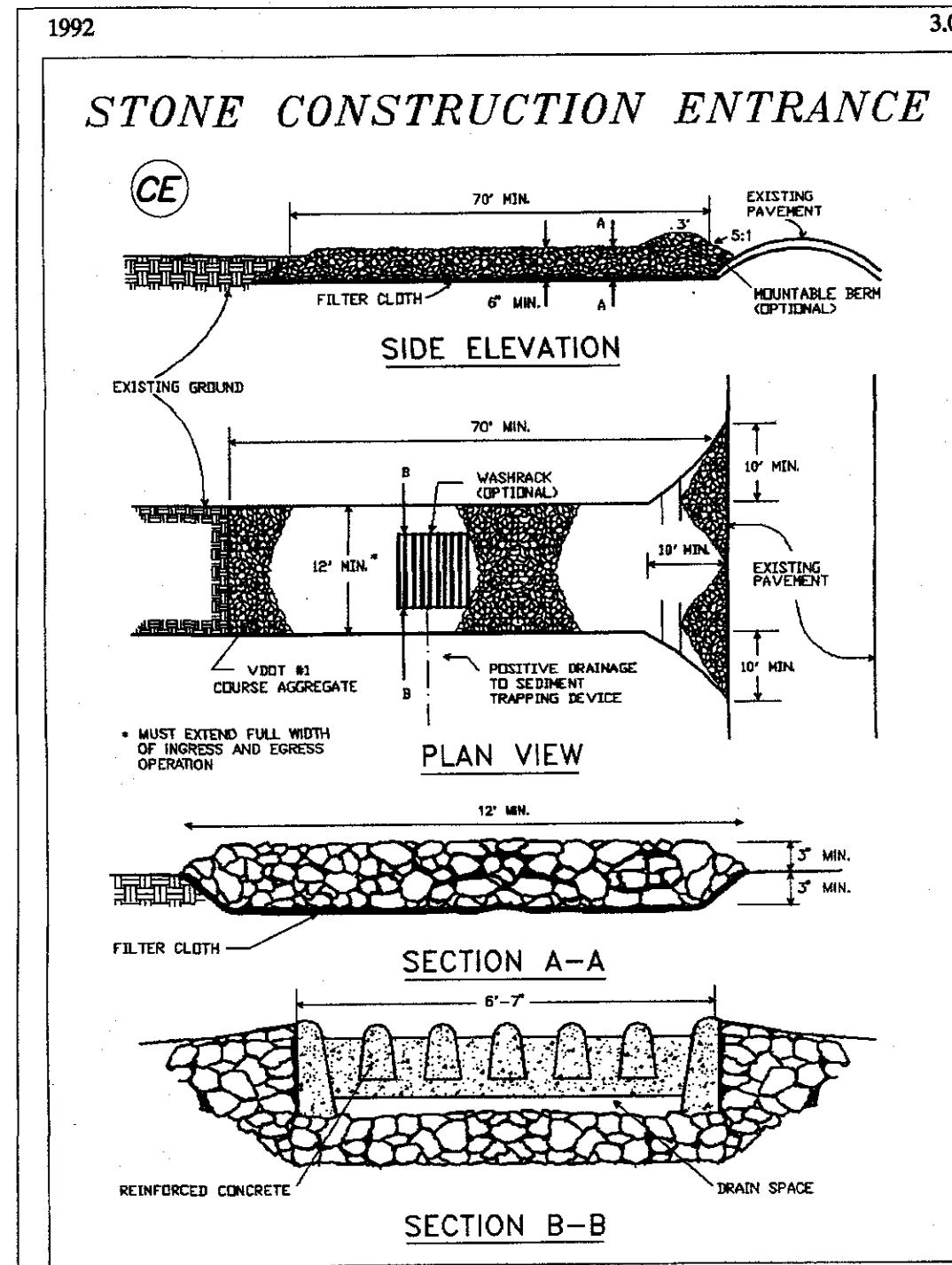


TABLE 3.35-A
ORGANIC MULCH MATERIALS AND APPLICATION RATES

| MULCHES: | RATES: | | NOTES: |
|-----------------------------|--|------------------|---|
| | Per Acre | Per 1000 sq. ft. | |
| Straw or Hay | 1 1/2 - 2 tons (Minimum 2 tons for winter cover) | 70 - 90 lbs. | Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand. |
| Fiber Mulch | Minimum 1500 lbs. | 35 lbs. | Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry. |
| Corn Stalks | 4 - 6 tons | 185 - 275 lbs. | Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand. |
| Wood Chips | 4 - 6 tons | 185 - 275 lbs. | Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |
| Bark Chips or Shredded Bark | 50 - 70 cu. yds. | 1-2 cu. yds. | Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |

* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: Va. DSWC

MULCHING
Va ESCH STD. & SPEC. 3.35

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Simon L. Rutrough
Lic. No. 050774
07/12/2018
PROFESSIONAL ENGINEER

Warehouse Expansion
for Blue Ridge Beverage
4446 Barley Drive
Roanoke County, Virginia

REVISIONS:

| Address 1st Review Comments | Date |
|----------------------------------|------------------|
| Field Revision #1: Borrow Site | 12 February 2018 |
| Address County Comments to Field | 02 July 2018 |
| | 14 July 2018 |

DESIGNED BY: JLK
DRAWN BY: JLK
CHECKED BY: SLR

DATE:
11 December 2017

SHEET TITLE:
ESC DETAILS

SCALE:
N/A

SHEET NO.
C06