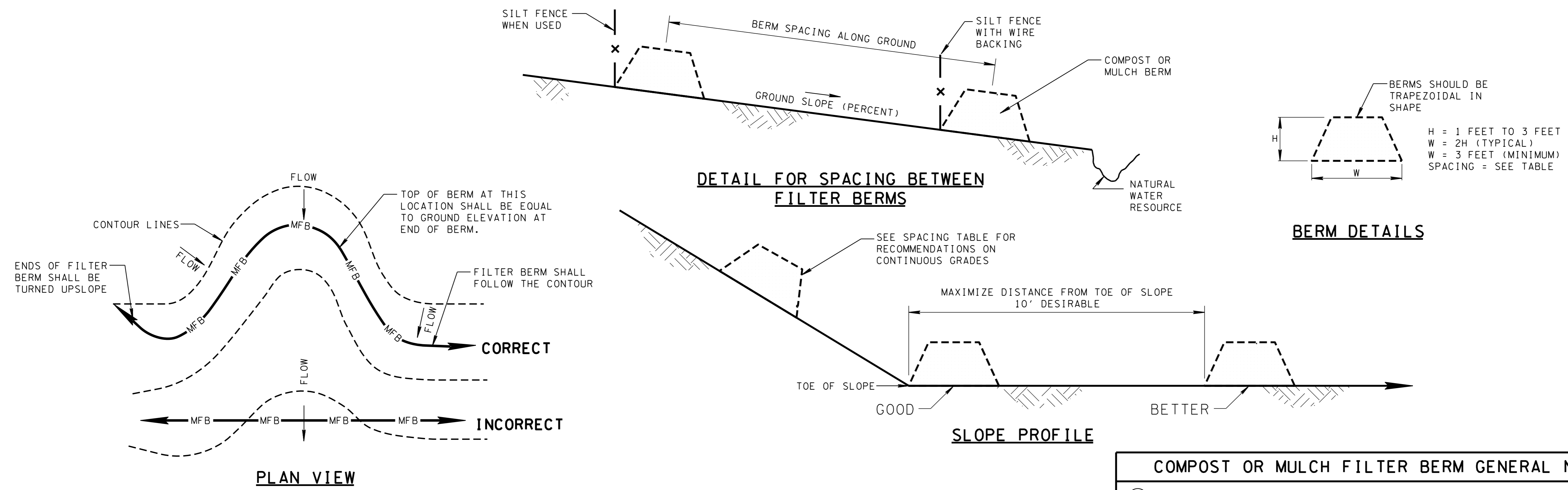


- REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.
- REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, MISC. EDITS TO DRAWING.
- REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.



| FILTER BERM SPACING |   |
|---------------------|---|
| GROUND SLOPE (%)    | RECOMMENDED SPACING BETWEEN BERMS ALONG GROUND (FT) |
| <2                  | 110   |
| 2-5                 | 100   |
| 5-10                | 75  |
| 10-20               | 25  |
| >20                 | NOT ALLOWED   |

| COMPOST MATERIAL SPECIFICATIONS         |  |  |  |
|---|--|--|--|
|   |  | RANGE  |  |
| PROPERTY                                | UNITS  | BERM TO BE VEGETATED <sup>①</sup>  | BERM TO BE NON-VEGETATED   |
| pH                                      | pH   | 5.0-8.5  | N/A  |
| SOLUBLE SALT CONCENTRATION              | dS/m   | MAXIMUM 5  | N/A  |
| MOISTURE CONTENT                        | % WET WEIGHT BASIS                             | 30-60  | 30-60  |
| ORGANIC MATTER                          | % DRY WEIGHT BASIS                             | 25-65  | 25-100   |
| PHYSICAL CONTAMINANTS (MAN-MADE INERTS) | % DRY WEIGHT BASIS                             | LESS THAN 1  | LESS THAN 1  |
| PARTICLE SIZE                           | % PASSING SELECTED MESH SIZE, DRY WEIGHT BASIS | 3 INCH - 100%<br>1 INCH - 90% - 100%<br>¾ INCH - 70% - 100%<br>¼ INCH - 30% - 75%<br>MAXIMUM PARTICLE SIZE LENGTH 6 INCHES | 3 INCH - 100%<br>1 INCH - 90% - 100%<br>¾ INCH - 70% - 100%<br>¼ INCH - 30% - 75%<br>MAXIMUM PARTICLE SIZE LENGTH 6 INCHES |

<sup>①</sup> COARSE COMPOSTS WHICH CONTAIN LESS THAN 30% OF FINE PARTICLES 0.039 INCHES (1 mm IN SIZE) SHOULD BE AVOIDED IF THE COMPOST BERM IS TO BE VEGETATED

EROSION CONTROL PLAN LEGEND: —CFB—CFB— COMPOST FILTER BERM  
 EROSION CONTROL PLAN LEGEND: —MFB—MFB— MULCH FILTER BERM

**COMPOST OR MULCH FILTER BERM GENERAL NOTES**

- (A) COMPOST OR MULCH FILTER BERMS ARE SEDIMENT CONTROL DEVICES WHICH MAY BE USED IN PLACE OF SILT FENCE TO CONTROL SEDIMENT TRANSPORT FROM AREAS WHERE RUNOFF OCCURS AS SHEET FLOW.
- (B) THE MAXIMUM DRAINAGE AREA FOR A CONTINUOUS BERM SHALL BE ¼ ACRE PER 100 LINEAR FEET OF FILTER BERM.
- (C) FILTER BERMS SHALL NOT BE USED TO TREAT CONCENTRATED FLOW AND SHOULD BE USED WITH SILT FENCE WITH WIRE BACKING OR OTHER APPROPRIATE STRUCTURAL MEASURES ON SITES WHICH DRAIN TO SENSITIVE NATURAL WATER RESOURCES (WETLANDS, SEDIMENT-IMPAIRED STREAMS, OR EXCEPTIONAL TENNESSEE WATERS).
- (D) FILTER BERMS MAY BE USED IN CONJUNCTION WITH SILT FENCE OR SILT FENCE WITH WIRE BACKING AND SHOULD BE CONSTRUCTED DIRECTLY AT THE BASE OF THE OTHER STRUCTURAL MEASURE (DOWNHILL SIDE).
- (E) WHERE POSSIBLE, BERMS SHOULD BE PLACED AWAY FROM THE TOE OF SLOPES A MINIMUM OF 10 FEET TO ALLOW FOR ENERGY DISSIPATION AND STORAGE OF SEDIMENT.
- (F) FILTER BERMS SHALL BE PLACED ALONG OR ON THE GROUND CONTOUR WITH THE ENDS OF THE FILTER BERM TURNED UP SLOPE. ADEQUATE AREA SHALL BE PROVIDED BEHIND BERM FOR PONDING OF WATER.
- (G) MULCH FILTER BERMS SHALL CONSIST OF 100 PERCENT WOOD CHIPS. COMPOST FILTER BERM SHALL CONSIST OF 50 PERCENT WOOD CHIPS BLENDED WITH 50 PERCENT COMPOST SPECIFIED IN COMPOST MATERIAL SPECIFICATIONS TABLE. ALL WOOD CHIPS SHALL BE LESS THAN 6 INCHES IN LENGTH WITH 95 PERCENT PASSING A 2 INCH SCREEN AND NOT LESS THAN 30 PERCENT PASSING A 1 INCH SCREEN.
- (H) COMPOST FILTER BERM MAY BE VEGETATED WITH TEMPORARY OR PERMANENT SEEDING AFTER PLACEMENT. MULCH FILTER BERMS SHALL NOT BE SEEDED.
- (I) ROUTINELY INSPECT FILTER BERMS AND MAINTAIN TO A FUNCTIONAL CONDITION THROUGHOUT CONSTRUCTION. INSTALL ADDITIONAL FILTER MATERIAL AS DIRECTED BY THE ENGINEER. UPON PROJECT COMPLETION, DISPERSE OR REMOVE BERM OR LEAVE IN PLACE AS DIRECTED BY THE ENGINEER.
- (J) FOR INSTALLATION DETAILS AND ITEM NUMBERS FOR SILT FENCE (EC-STR-3B) AND SILT FENCE WITH WIRE BACKING (EC-STR-3C) SEE STANDARD DRAWINGS.
- (K) ANY PRODUCT LISTED ON THE QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE IS ALSO ACCEPTABLE.
- (L) COMPOST OR MULCH FILTER BERMS SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBERS:  
 209-01.30 TEMPORARY COMPOST FILTER BERM PER CUBIC YARD  
 209-01.31 TEMPORARY MULCH FILTER BERM PER CUBIC YARD  
 SILT FENCE AND SILT FENCE WITH WIRE BACKING SHALL BE PAID FOR ACCORDING TO THEIR RESPECTIVE STANDARD DRAWING.  
 PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE FILTER BERMS.
- (M) SEDIMENT SHALL BE REMOVED FROM BEHIND THE FILTER BERM WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL, PER CUBIC YARD.

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

NOT TO SCALE

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**FILTER BERMS**