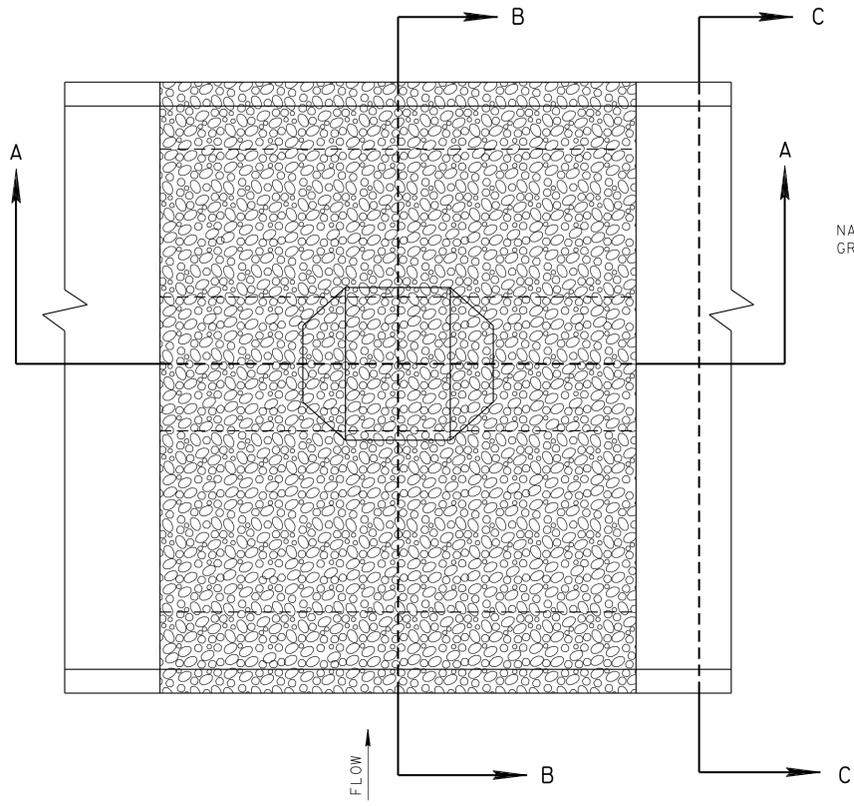
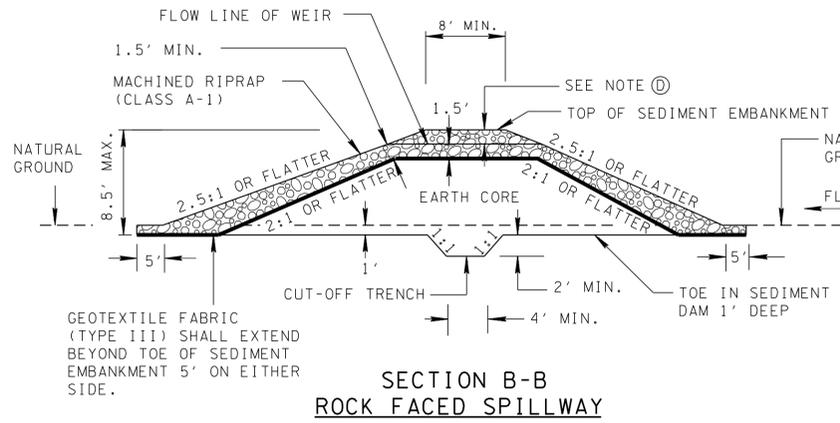


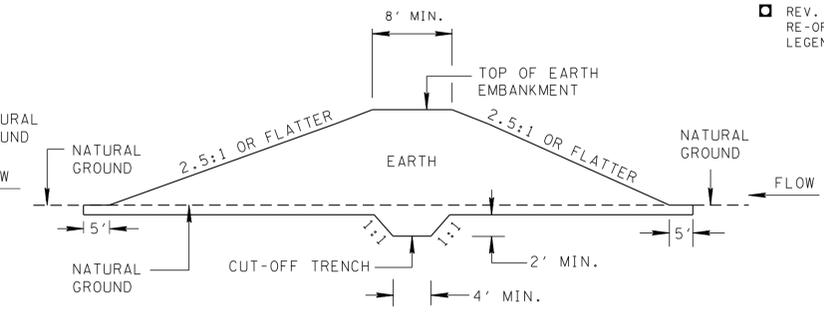
- REV. 5-27-01: CHANGED ITEM NO. 740-03.01 TO 740-10.03.
- REV. 12-18-02: CHANGED GENERAL NOTE (C).
- REV. 1-22-03: CORRECTED GENERAL NOTE (C).
- REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING, CHANGED DRAWING NAME.
- REV. 4-1-08: MISC. EDITS TO DRAWING, RE-ORDERED GENERAL NOTES, CHANGED LEGEND AND DRAWING NAME.



PLAN VIEW OF ROCK FACED SPILLWAY WITH EARTH CORE AND ADJOINING EARTH EMBANKMENT



SECTION B-B
ROCK FACED SPILLWAY

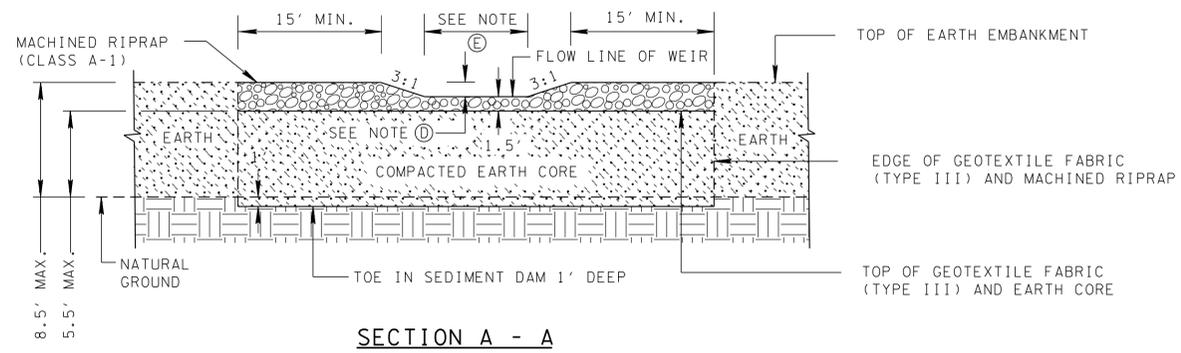


SECTION C-C
EARTH EMBANKMENT

SEDIMENT EMBANKMENT GENERAL NOTES

- (A) ROCK AND EARTH SEDIMENT EMBANKMENTS ARE FOR TEMPORARY USE. WHERE A PERMANENT FACILITY IS REQUIRED, CONSIDER THE USE OF A SEDIMENT BASIN, WHICH CAN BE CONVERTED INTO A PERMANENT DETENTION BASIN. THIS SHALL NOT BE PLACED IN STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCES.
- (B) AT MOST SITES, TEMPORARY ROCK AND EARTH SEDIMENT EMBANKMENTS SHALL BE DESIGNED TO CREATE AN IMPOUNDMENT VOLUME EQUAL TO THE RUNOFF VOLUME FROM THE 2-YEAR, 24-HOUR RAINFALL EVENT. AT SITES WHICH DRAIN TO HIGH-QUALITY OR SEDIMENT-IMPAIRED STREAMS, THE IMPOUNDMENT VOLUME SHALL BE EQUAL TO THE RUNOFF FROM THE 5-YEAR, 24-HOUR EVENT. IN NO CASE SHALL THE IMPOUNDMENT VOLUME EXCEED FIFTEEN (15) ACRE-FEET.
- (C) ROCK AND EARTH SEDIMENT EMBANKMENTS SHALL ONLY BE USED WHEN THE WATER IMPOUNDMENT AREA CAN BE CONTAINED WITHIN THE RIGHT-OF-WAY OR WITHIN A DRAINAGE EASEMENT FOR THE PROJECT.
- (D) THE TOP OF THE SEDIMENT EMBANKMENT SHOULD BE A MINIMUM OF ONE (1) FOOT ABOVE THE 25 YEAR DESIGN FLOW DEPTH OVER THE WEIR. THE MINIMUM HEIGHT OF THE OVERFLOW WIER IS 1.5 FEET.
- (E) THE WEIR MUST BE DESIGNED TO PASS THE PEAK 25-YEAR FLOW RATE WITHOUT OVERTOPPING THE EMBANKMENT.
- (F) THE HEIGHT OF THE OVERFLOW WEIR SHOULD BE SET SUCH THAT ALL FLOWS IN EXCESS OF THE DESIGN IMPOUNDMENT VOLUME SHALL PASS OVER THE WEIR.
- (G) FOR EARTH-FILL EMBANKMENTS, A CUT-OFF TRENCH SHALL BE EXCAVATED ALONG THE CENTERLINE OF THE EMBANKMENT. THE TRENCH MUST EXTEND AT LEAST ONE (1) FOOT INTO A STABLE, IMPERVIOUS LAYER OF SOIL AND HAVE A MINIMUM DEPTH OF 2 FEET. THE MINIMUM BOTTOM WIDTH SHALL BE 4 FEET, BUT ALSO MUST BE WIDE ENOUGH TO PERMIT OPERATION OF COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1H:1V.
- (H) THE EARTH EMBANKMENT SHALL BE COMPACTED AS REQUIRED FOR ANY STRUCTURE WHICH IS INTENDED TO IMPOUND WATER.
- (I) THE EXPOSED SLOPES OF THE EARTH EMBANKMENT SHOULD BE STABILIZED WITH TEMPORARY SEEDING WITH MULCH OR OTHER STABILIZATION METHODS.
- (J) ROCK AND EARTH SEDIMENT EMBANKMENT IMPOUNDMENTS SHOULD BE DEWATERED WITH A DEWATERING STRUCTURE (EC-STR-1) OR SEDIMENT FILTER BAG (EC-STR-2) AS NEEDED.
- (K) ROCK AND EARTH SEDIMENT EMBANKMENTS SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBERS:

| | |
|-----------|--|
| 203-01 | ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED) PER CUBIC YARD |
| 709-05.06 | MACHINED RIPRAP (CLASS A-1) PER TON |
| 740-10.03 | GEOTEXTILE (TYPE III) (EROSION CONTROL) PER SQUARE YARD |
| 801-01.07 | TEMPORARY SEEDING (WITH MULCH) PER UNIT |
- (L) DEWATERING STRUCTURES AND SEDIMENT FILTER BAGS SHALL BE PAID FOR UNDER ITS RESPECTIVE ITEM NUMBER.
- (M) PAYMENT SHALL INCLUDE ALL MATERIALS, EXCAVATION, AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE ROCK AND EARTH SEDIMENT EMBANKMENTS.
- (N) SEDIMENT SHALL BE REMOVED FROM BEHIND THE ROCK AND EARTH SEDIMENT EMBANKMENT 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.



SECTION A - A

EROSION CONTROL PLAN LEGEND: (RE) (SE) ROCK AND EARTH SEDIMENT EMBANKMENT

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROCK AND EARTH
SEDIMENT
EMBANKMENT