

TOP OF DITCH SLOPE

MACHINED RIPRAP
(CLASS A-1)

GEOTEXTILE FABRIC (TYPE III)
(EROSION CONTROL)
SHALL BE PLACED UNDER
ENTIRE WIDTH OF RIPRAP.

ENHANCED ROCK CHECK DAM AT OUTLET TOP OF CHECK DAM END. SEE STANDARD DRAWING EC-STR-6A (H) — AT EDGE OF DITCH TOP OF DITCH (NATURAL GROUND)-LENGTH OF SEDIMENT TRAP -ROCK CHECK DAM FLOW LINE $L = 2 \times W (MINIMUM)$ FOR VELOCITY OF WEIR-REDUCTION (H) DRY SEDIMENT ----STORAGE ELEVATION 2' MIN.--⊢1′ MIN. FLOW—— 1.5′ MIN. 3.0' MAX. FLOW LINE OF EXISTING DITCH $\lfloor D_1$ 2.0' MIN. MACHINED RIPRAP 4.0' MAX. (CLASS A-1) WET SEDIMENT → STORAGE ELEVATION GEOTEXTILE FABRIC (TYPE III) — SHALL EXTEND BEYOND TOE OF RIPRAP SLOPE A MINIMUM PROFILE VIEW OF 6 FEET

GENERAL NOTES

- SEDIMENT TRAPS WITH CHECK DAMS DETAIN SEDIMENT LADEN STORMWATER RUNOFF FROM SMALL DISTURBED AREAS SO THE MAJORITY OF THE SEDIMENT CAN SETTLE OUT. SEDIMENT TRAPS WITH CHECK DAMS SHALL NOT BE USED IN STREAMS OR WETLANDS UNLESS PROVIDED FOR IN THE PERMITS.
- (B) THE DRAINAGE AREA FOR THE SEDIMENT TRAP SHALL BE 3 ACRES OR LESS.
- (C) THE BELOW GROUND SEDIMENT TRAP IS LOCATED IN A DITCH LINE AND WILL REQUIRE GEOTEXTILE FABRIC (TYPE III) AND RIPRAP AT BOTH ENDS.
- ONLY GEOTEXTILE FABRIC (TYPE III) LISTED ON THE QUALIFIED PRODUCTS LIST SHALL BE USED.
- E) FOR INSTALLATION DETAILS AND ITEM NUMBERS FOR ROCK CHECK DAMS (EC-STR-6), ENHANCED ROCK CHECK DAMS (EC-STR-6A), AND GABION CHECK DAMS (EC-STR-55) REFER TO THEIR RESPECTIVE STANDARD DRAWING.
- F) SEDIMENT TRAP WITH CHECK DAM SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:

209-10.20 TEMPORARY SEDIMENT TRAP PER CUBIC YARD

ROCK CHECK DAMS, ENHANCED ROCK CHECK DAMS, AND GABION CHECK DAMS SHALL BE PAID FOR ACCORDING TO THEIR RESPECTIVE STANDARD DRAWING.

PAYMENT SHALL INCLUDE ALL MATERIALS, EXCAVATION, AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE SEDIMENT TRAP WITH CHECK DAM.

- SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP 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.
- GABION CHECK DAM PER STANDARD DRAWING EC-STR-55 MAY BE SUBSTITUTED WHERE REQUIRED.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

REV. 12-18-95: CHANGED DRAWING NO. FROM ESC-STR-7 TO EC-STR-7.

REV. 5-27-01: CHANGED ITEM NOS. 209-10.01 THROUGH 209-10.19 TO

REV. 9-5-01: CORRECTED NOTE REGARDING GEOTEXTILE FABRIC IN SECTION A-A AND SECTION B-B.

REV. 12-18-02: CHANGED GENERAL

☐ REV. 1-22-03: CORRECTED GENERAL

REV. 7-29-04: ADDED ROCK CHECK

DAM TO PLAN AND PROFILE VIEWS.

REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO

☐ REV. 4-1-08: REMOVED TEMPORARY

MISC. DRAWING EDITS.

REFERENCE, CHANGED SILT SCREEN TO ENHANCED CHECK DAM, ADDED

GABION ALTERNATE, REVISED NOTES,

☐ REV. 8-1-12: MINOR EDITS TO GENERAL

GEOTEXTILE FABRIC TO PROFILE VIEW.

NOTE B. ADDED ADDITIONAL

CHANGED GENERAL NOTE (B).

209-10.20.

NOTE (D.

DRAWING.

NOT TO SCALE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SEDIMENT TRAP
WITH
CHECK DAM

10-26-92 EC-STR-7

EROSION CONTROL PLAN LEGEND: SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM

EROSION CONTROL PLAN LEGEND: SEDIMENT TRAP WITH GABION CHECK DAM