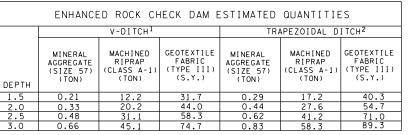
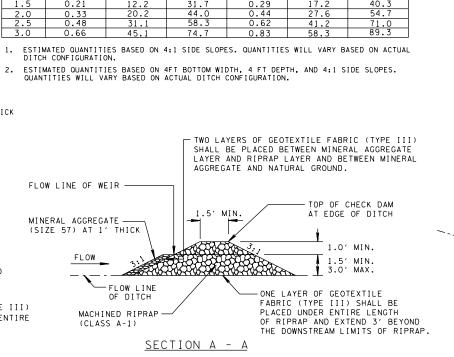


☐ REV. 5-6-16: REVISED GENERAL NOTE (H).



- ESTIMATED QUANTITIES BASED ON 4:1 SIDE SLOPES. QUANTITIES WILL VARY BASED ON ACTUAL 1. DITCH CONFIGURATION.



GEOTEXTILE FABRIC (TYPE III) SHALL EXTEND 3' BEYOND LIMITS OF RIPRAP MACHINED RIPRAP (CLASS A-1) TOP OF -TOP OF DITCH DITCH - MINERAL AGGREGATE (SIZE 57) AT 1' THICK PLAN VIEW ΝΔΤΙΙΡΔΙ GROUND TOP OF WEIR AT EDGE OF DITCH LO' MIN. GEOTEXTILE FABRIC (TYPE III) SIDE SLOPE SHALL BE PLACED UNDER ENTIRE WIDTH OF RIPRAP. OF DITCH FLOW LINE OF 1.5' MIN. PROPOSED DITCH TO 3.0' MAX.

DETAIL FOR V-DITCH

(A) ENHANCED ROCK CHECK DAMS MAY BE USED TO REDUCE FLOW VELOCITIES TO ALLOW

- (B) AT MOST SITES, THE MAXIMUM ALLOWABLE DRAINAGE AREA SHALL BE 30 ACRES.
- THE CENTER OF THE ENHANCED ROCK CHECK DAM USED IN DITCHES MUST BE AT LEAST ONE (1) FOOT LOWER THAN THE OUTER EDGES. THE CENTER OF ENHANCED ROCK CHECK DAMS USED IN CHANNELS MUST BE AT LEAST TWO (2) FEET LOWER THAN THE OUTER
- THE DEPTH OF FLOW ON THE CENTER OF THE STRUCTURE SHALL BE COMPUTED FOR THE PEAK FLOW RATE GENERATED BY THE 2-YEAR, 24-HOUR STORM IN ORDER TO ENSURE THAT THE TOP OF THE STRUCTURE WILL NOT BE OVERTOPPED. FOR SITES WHICH DRAIN TO EXCEPTIONAL TENNESSEE WATERS OR SEDIMENT IMPAIRED STREAMS, THE DEPTH SHOULD BE DETERMINED FOR THE 5-YEAR, 24-HOUR PEAK FLOW RATE.

 THIS WILL ELIMINATE THE ROCK - SOIL FAILURE POINT WHERE THE ENHANCED ROCK CHECK DAM AND NATURAL GROUND MERGE.
- THE MAXIMUM SPACE BETWEEN ENHANCED ROCK CHECK DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM IS AT THE SAME ELEVATION AS THE FLOW LINE OF THE WEIR OF THE DOWNSTREAM DAM. (SEE ROCK CHECK DAM SPACING GRAPH ON EC-STR-6)
- © ONLY GEOTEXTILE FABRIC (TYPE III) LISTED ON THE QUALIFIED PRODUCTS LIST SHALL BE USED.
- PRODUCTS LISTED ON THE QUALIFIED PRODUCTS LIST FOR FILTER SOCK DITCH APPLICATION MAY BE USED AND SHALL BE PAID UNDER FOLLOWING ITEM NUMBER:

PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ENHANCED ROCK CHECK DAMS.

ENHANCED ROCK CHECK DAM GENERAL NOTES

SECTION E - E

- ENHANCED VALUE DAMS WAT BE EMPLOYED WHERE THE DRAINAGE AREA EXCEEDS THE MAXIMUM FOR ROCK CHECK DAMS OR WHERE A FLITRATION FUNCTION FOR VERY LOW FLOWS IS DESIRED. ENHANCED ROCK CHECK DAMS OR WETLANDS UNLESS PROVIDED FOR IN THE PERMITS.
- AT SITES WHICH DRAIN TO EXCEPTIONAL TENNESSEE WATERS OR SEDIMENT-IMPAIRED STREAMS. THE MAXIMUM ALLOWABLE DRAINAGE AREA SHALL BE 20 ACRES.
- © ENHANCED CHECK DAM MAY REMAIN IN PLACE AS PERMANENT CHECK DAM. IF SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

209-08.09 FILTER SOCK CHECK DAM PER EACH

(I) ENHANCED ROCK CHECK DAMS SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER: 209-08.08 ENHANCED ROCK CHECK DAM PER EACH

SEDIMENT SHALL BE REMOVED FROM BEHIND THE ENHANCED ROCK CHECK DAM WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDMENT REMOVAL PER CUBIC YARD.

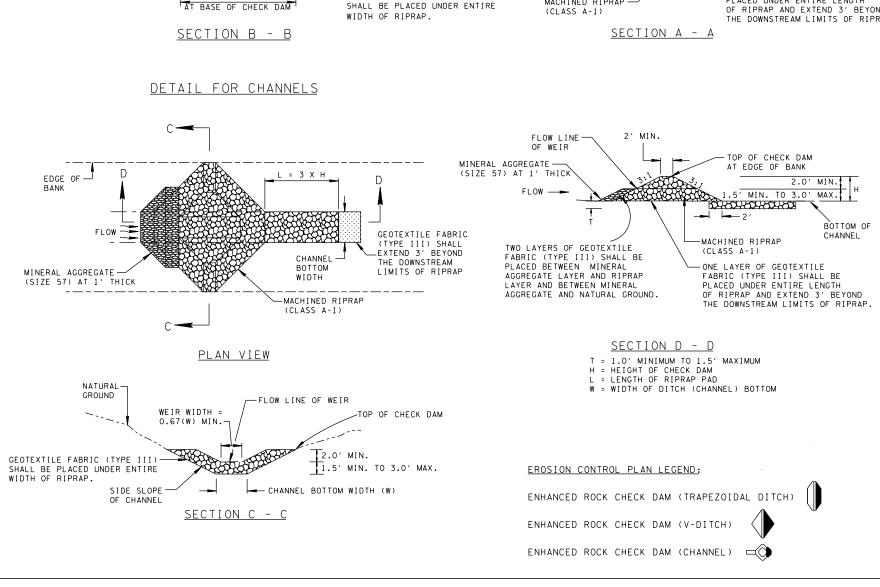
MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> ENHANCED ROCK CHECK DAM

EC-STR-6A 4-1-08



DETAIL FOR TRAPEZOIDAL DITCH

FLOW

-NATURAL GROUND

SIDE SLOPE-

OF DITCH

FLOW LINE

OF WEIR

BASE OF DITCH

PLAN VIEW

WEIR WIDTH =

DITCH WIDTH (W)

0.67(W) MIN.

MACHINED RIPRAP

MINERAL AGGREGATE

(SIZE 57) AT 1' THICK

1.0' MIN.

GEOTEXTILE FABRIC (TYPE III)

SHALL BE PLACED UNDER ENTIRE

1.5' MIN. TO 3.0' MAX.

(CLASS A-1)

MACHINED RIPRAP

CHECK DAM

(CLASS A-1)

GEOTEXTILE FABRIC (TYPE III)

SHALL EXTEND 3' BEYOND

LIMITS OF RIPRAP

TOP OF DITCH