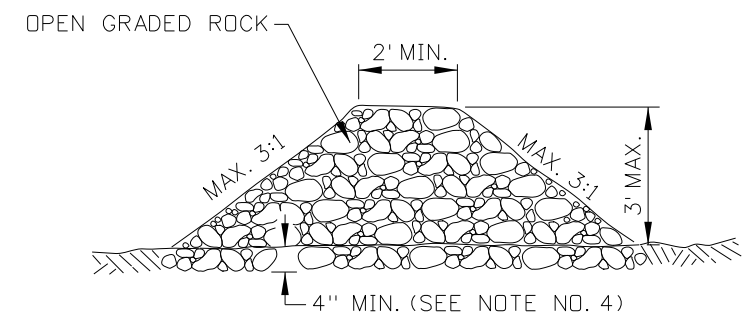
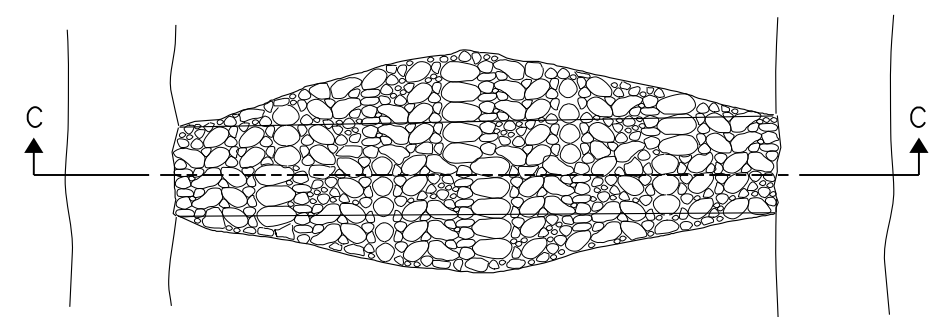


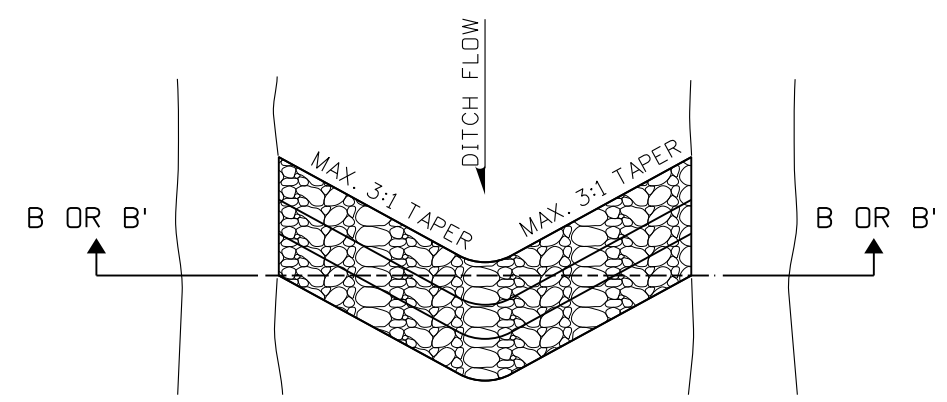
PERSPECTIVE VIEW - AT TOE OF SLOPE
STONE FILTER BERM
(SEE NOTE NO. 6)



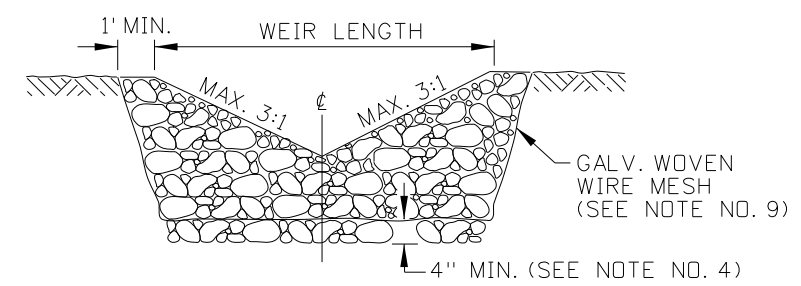
SECTION A-A



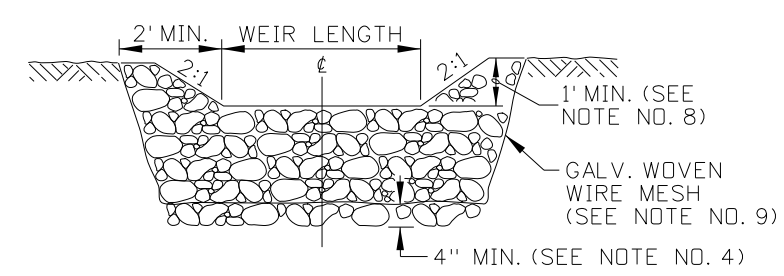
STONE FILTER DAM
(SEE NOTE NOS. 9 THROUGH 11)



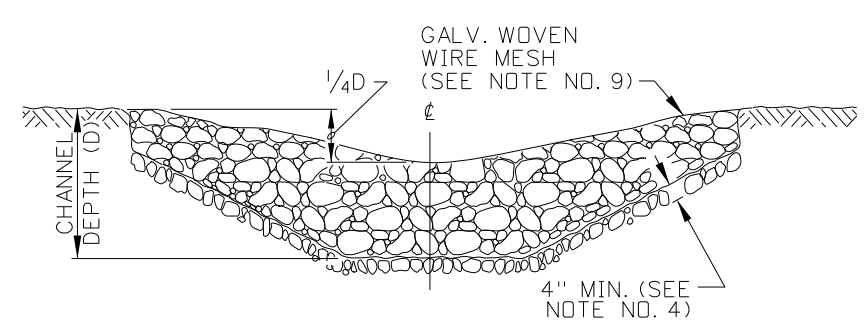
STONE FILTER WEIR
(SEE NOTE NOS. 7 & 8)



"V" NOTCHED WEIR
SECTION B - B
FOR HIGH VELOCITY FLOWS



LEVEL CRESTED WEIR
SECTION B' - B'



ELEVATION - AT CHANNEL SECTION
SECTION C - C

NOTES

1. SEE THE GENERAL NOTES FOR PERMANENT EROSION CONTROL STANDARD DRAWINGS ON 212-10.
2. PLACE STONE FILTER DAMS WHERE UP GRADIENT EROSION IS ANTICIPATED, SUCH AS AT THE TOE OF SLOPES, UPSTREAM OF DRAINAGE STRUCTURES, DOWNSTREAM OF DRAINAGE STRUCTURES, OR BOTH, IN ROADWAY DITCHES AND IN CHANNELS.
3. DIRECT THE OUTLET SIDE OF STONE FILTER DAMS ONTO A STABILIZED AREA SUCH AS VEGETATION, STONE, OR BOTH.
4. EMBED STONE FILTER DAMS A MINIMUM OF 4 INCHES INTO THE EXISTING GROUND OR EMBANKMENT.
5. ENSURE BERM, WEIR, AND DAM SIDE SLOPES ARE 3:1 OR FLATTER. ENSURE BERMS, WEIRS, AND DAMS WITHIN THE CLEAR ZONE HAVE SLOPES OF 6:1 OR FLATTER UNLESS SHIELDED.
6. USE FILTER BERMS ON SLOPE TOES, AROUND INLETS, IN SHALLOW DITCHES, AND AT DIKE AND SWALE OUTLETS. THIS TYPE OF STONE FILTER BERM IS RECOMMENDED TO CONTROL SEDIMENT FROM A DRAINAGE AREA OF 5 ACRES OR LESS. DO NOT USE FILTER BERMS IN CONCENTRATED HIGH VELOCITY FLOWS (GREATER THAN 8 FT./SEC.) WHERE AGGREGATE WASH-OUT MAY OCCUR. EMBED SANDBAGS AT THE FILTER DAM EDGES (4" OR MORE) FOR BETTER FILTERING EFFICIENCY WHEN DIRECTED.
7. USE FILTER WEIRS, DAMS, OR BOTH IN DITCHES AND AT DIKE AND SWALE OUTLETS.
8. ENSURE FILTER WEIRS HAVE A MINIMUM OF 1 FT DISTANCE BETWEEN THE TOP OF WEIR AND THE TOP OF THE EMBANKMENT. THE "V" NOTCH OPTION IS INTENDED TO BE USED ON HIGH VELOCITY FLOWS (GREATER THAN 8 FT/SEC).
9. SECURE FILTER WEIRS AND DAMS WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. PLACE THE STONE IN THE MESH TO THE HEIGHT AND SLOPE SPECIFIED. THE MESH SHOULD BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES, OR HOG RINGS.
10. CONSTRUCT FILTER DAMS DOWNSTREAM FROM THE DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF, CONCENTRATED FLOW, OR BOTH. DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW RATE OF 60 GPM PER LINEAR FOOT OF DAM WIDTH. USE A FIVE YEAR STORM FREQUENCY TO CALCULATE THE FLOW RATE.
11. USE FILTER DAMS IN STREAMS AND CHANNELS. SECURE TO THE STREAM BED AND EMBANKMENT EDGES.
12. DRAWING NOT TO SCALE.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	05-95	MSM	6	11-16	RDL		
2	02-96	MSM	7	03-21	TWF		
3	10-10	KEH					
4	10-11	KEH					
5	01-13	RDL					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: 212-11_0421.dgn
DRAWING DATE: JANUARY, 1994

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: KEVIN SABLAN
DESIGN/TRAFFIC SERVICES ENGINEER

STANDARD DRAWING
PERMANENT EROSION AND SEDIMENT CONTROL
STONE FILTER BERMS, DAMS, AND WEIRS
REQUIRES STD. DWG. 212-10

English
STANDARD DRAWING NO.
212-11
SHEET 1 OF 1

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho