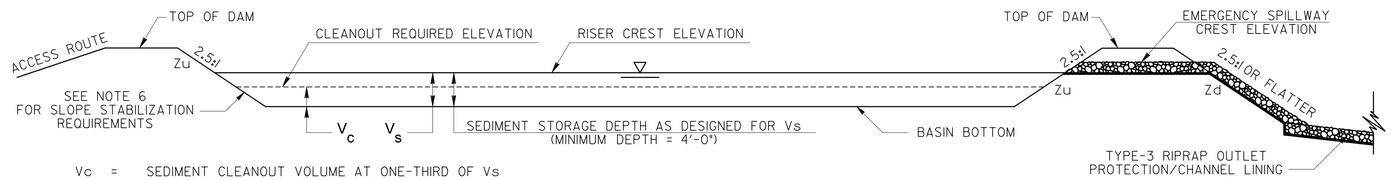
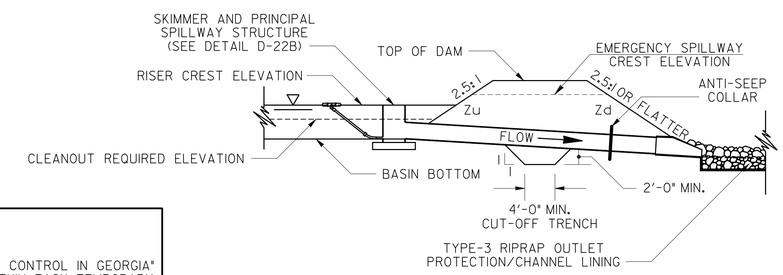
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SECTION A-A

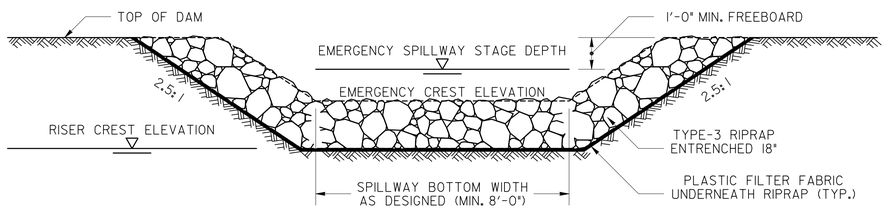


Vc = SEDIMENT CLEANOUT VOLUME AT ONE-THIRD OF Vs
Vs = SEDIMENT STORAGE VOLUME AS DESIGNED
Zu = UPSTREAM SIDE SLOPE
Zd = DOWNSTREAM SIDE SLOPE

SECTION B-B

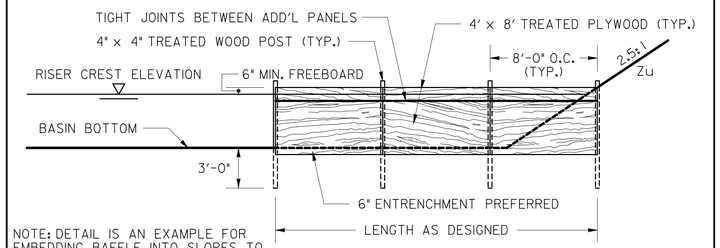


EMERGENCY SPILLWAY DETAIL

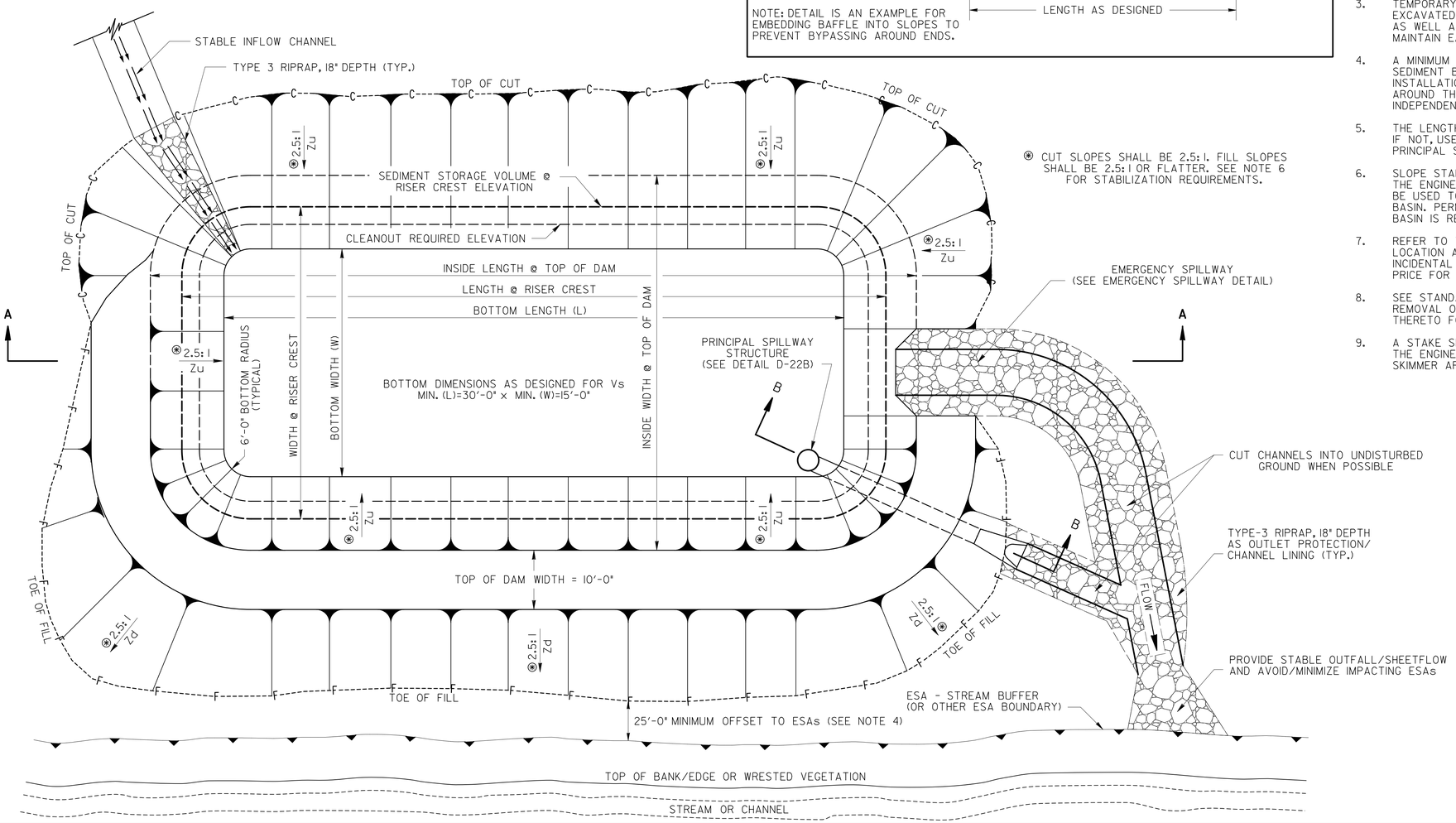


BAFFLE DETAIL

REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR INFORMATION ON BAFFLE LAYOUT. BAFFLES LENGTHS AND LOCATION(S) WITHIN EACH TEMPORARY SEDIMENT BASIN SHALL BE PROVIDED IN THE ESPCP. SEE NOTE 5 FOR APPLICABILITY.



NOTE: DETAIL IS AN EXAMPLE FOR EMBEDDING BAFFLE INTO SLOPES TO PREVENT BYPASSING AROUND ENDS.



⊛ CUT SLOPES SHALL BE 2.5:1. FILL SLOPES SHALL BE 2.5:1 OR FLATTER. SEE NOTE 6 FOR STABILIZATION REQUIREMENTS.

GENERAL NOTES:

1. A TEMPORARY SEDIMENT BASIN IS DESIGNED TO STORE A MINIMUM OF 67 CUBIC YARDS OF SEDIMENT PER ACRE OF CONTRIBUTING DRAINAGE AREA. A PRINCIPAL SPILLWAY IS DESIGNED TO CONVEY THE 2-YEAR, 24-HOUR STORM EVENT AND AN EMERGENCY SPILLWAY IS DESIGNED TO BE USED IN CONJUNCTION WITH THE PRINCIPAL SPILLWAY TO CONVEY THE 25-YEAR, 24-HOUR STORM EVENT.
2. A FLOATING SURFACE SKIMMER IS A REQUIRED BEST MANAGEMENT PRACTICE (BMP) TO DEWATER THE BASIN'S SEDIMENT STORAGE VOLUME WITHIN 24 TO 48 HOURS.

   CONTRACTOR MAY SUBMIT AN ACCEPTABLE ALTERNATE FLOATING SURFACE SKIMMER DESIGN FOR EACH CORRESPONDING TEMPORARY SEDIMENT BASIN. THE CONTRACTOR'S GSWCC LEVEL II DESIGN PROFESSIONAL SHALL SUBMIT THE ALTERNATE FLOATING SURFACE SKIMMER DESIGN.
3. TEMPORARY SEDIMENT BASINS ARE GENERALLY CONSTRUCTED AT THE TOE OF A SLOPE, EXCAVATED ON THE UPHILL SIDE, AND DAMMED ON THE DOWNHILL SIDE. SUFFICIENT EASEMENT AS WELL AS AN ACCESS ROUTE WITH 3:1 SLOPES OR LESS IS REQUIRED TO CONSTRUCT AND MAINTAIN EACH TEMPORARY SEDIMENT BASIN.
4. A MINIMUM OF 25'-0" SHOULD BE PROVIDED FROM THE CONSTRUCTION LIMITS OF THE TEMPORARY SEDIMENT BASIN TO AN ENVIRONMENTALLY SENSITIVE AREA (ESA). THIS AREA WOULD ALLOW THE INSTALLATION OF PERIMETER CONTROL BMPs OUTSIDE OF THE ESA WHILE MAINTAINING ACCESS AROUND THE TEMPORARY SEDIMENT BASIN. APPLICABLE PERIMETER CONTROL BMPs ARE INDEPENDENT OF THE TEMPORARY SEDIMENT BASIN AND WILL BE PAID FOR SEPARATELY.
5. THE LENGTH TO WIDTH RATIO AT THE RISER CREST ELEVATION SHALL BE NO LESS THAN 2:1. IF NOT, USE BAFFLES TO INCREASE THE EFFECTIVE FLOW LENGTH FROM THE INFLOW TO THE PRINCIPAL SPILLWAY TO MEET THE REQUIRED RATIO.
6. SLOPE STABILIZATION (EROSION CONTROL MATTING) SHALL BE INSTALLED ON ALL 2.5:1 SLOPES. THE ENGINEER MAY ALLOW BONDED FIBER MATRIX ON SOME SLOPES. PERMANENT GRASSING SHALL BE USED TO STABILIZE DISTURBED AREAS AFTER CONSTRUCTION OF THE TEMPORARY SEDIMENT BASIN. PERMANENT STABILIZATION MEASURES SHALL BE USED WHEN THE TEMPORARY SEDIMENT BASIN IS REMOVED.
7. REFER TO THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) FOR THE LOCATION AND SPECIFIC DESIGN INFORMATION FOR EACH SEDIMENT BASIN. ALL ITEMS SHOWN AND INCIDENTAL ITEMS NECESSARY FOR CONSTRUCTION ARE TO BE INCLUDED IN THE OVERALL BID PRICE FOR EACH TEMPORARY SEDIMENT BASIN.
8. SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF TEMPORARY SEDIMENT BASINS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF TEMPORARY SEDIMENT BASINS.
9. A STAKE SHALL BE PLACED NEAR THE PRINCIPAL SPILLWAY NOTING THE CLEANOUT ELEVATION. THE ENGINEER MAY DIRECT CONTRACTOR TO REMOVE UP TO 1 FOOT OF SEDIMENT AROUND THE SKIMMER AREA TO ENSURE FUNCTIONALITY OF THE SKIMMER AT NO ADDITIONAL COST.

PAY ITEMS:

163-0531	CONSTRUCT & REMOVE SEDIMENT BASIN, STA NO-	(EA)
165-0060	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO-	(EA)

BY	REVISION	DATE
DLE	BAFFLE, MISC. CLARIFICATIONS	11-28-18
JDG	EMERG. SPILLWAY & NOTES	6-2-14
	GENERAL NOTES & ANTIFLOATION BLOCK	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SEDIMENT BASIN

NO SCALE

AUGUST 2011

DESIGNED
DRAWN
CHECKED
REVISED DLE

NUMBER
D-22A
(SHEET 1 OF 2)