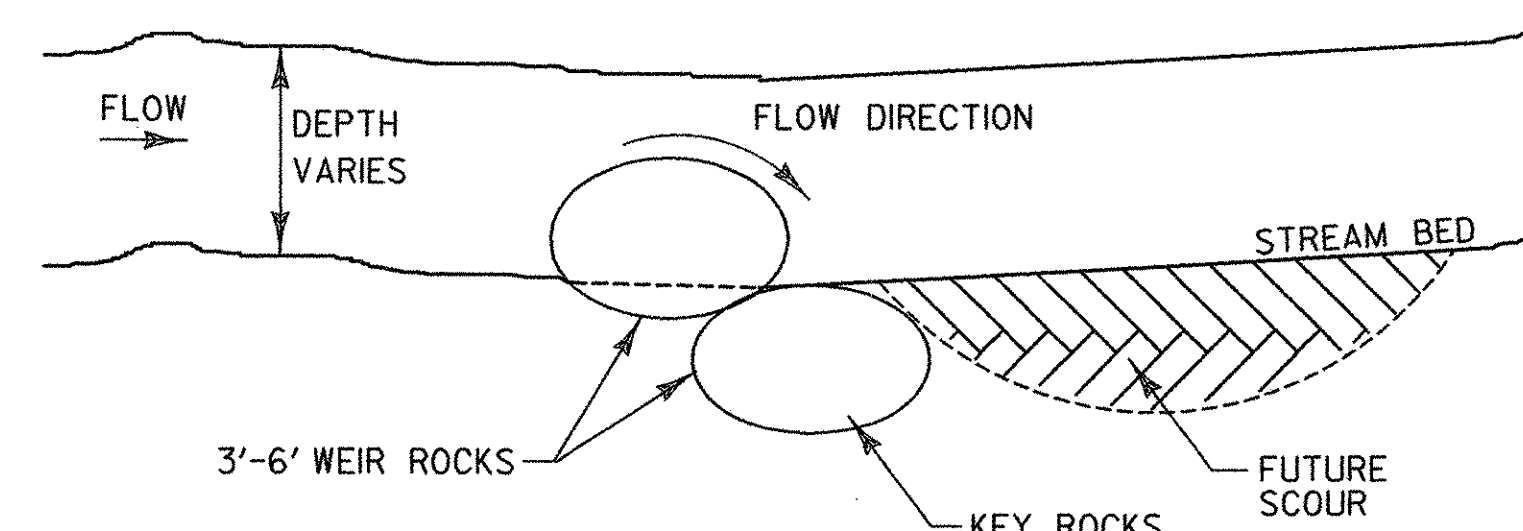
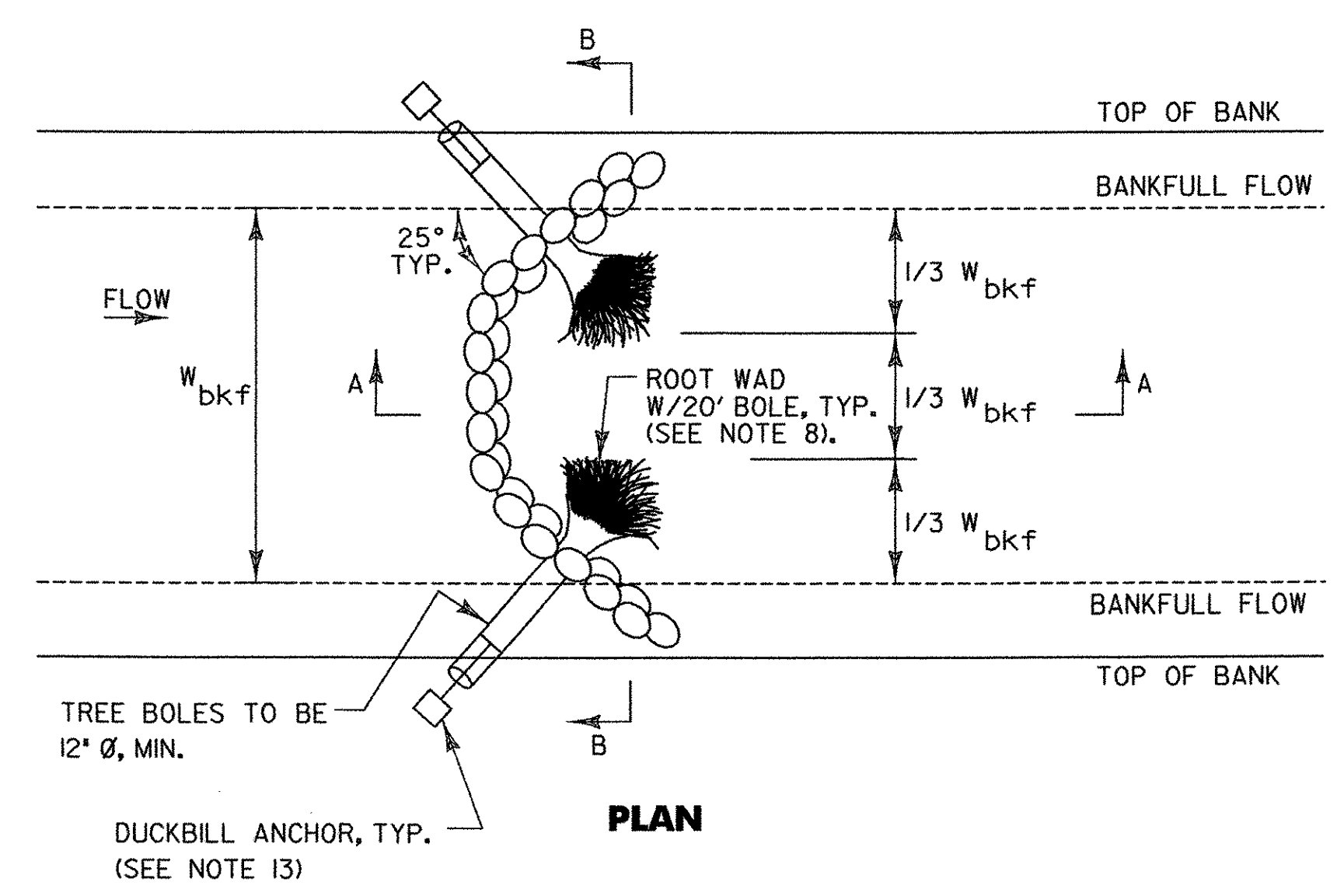


SECTION B-B



SECTION A-A



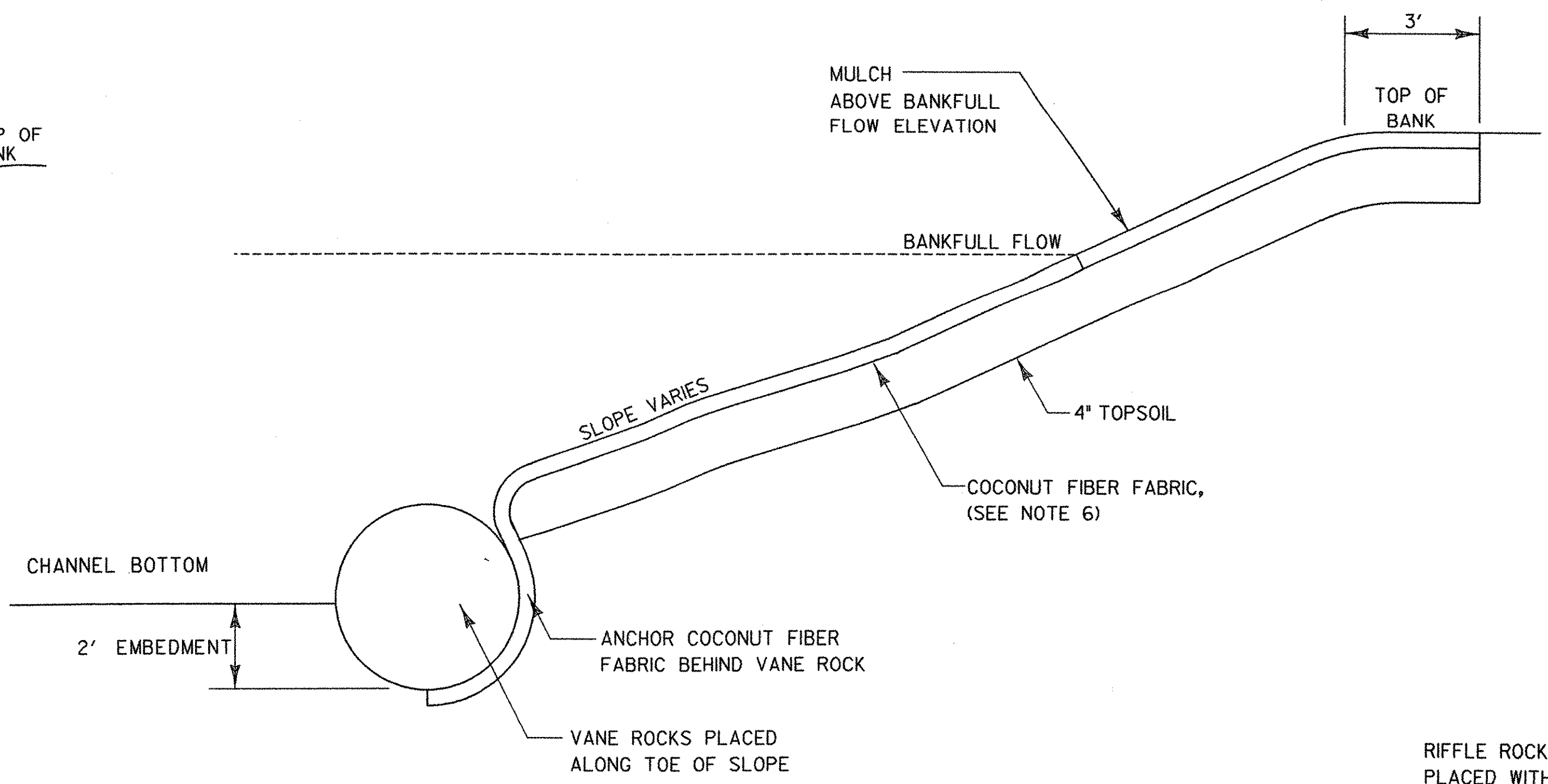
PLAN

ROCK WEIR
N.T.S.

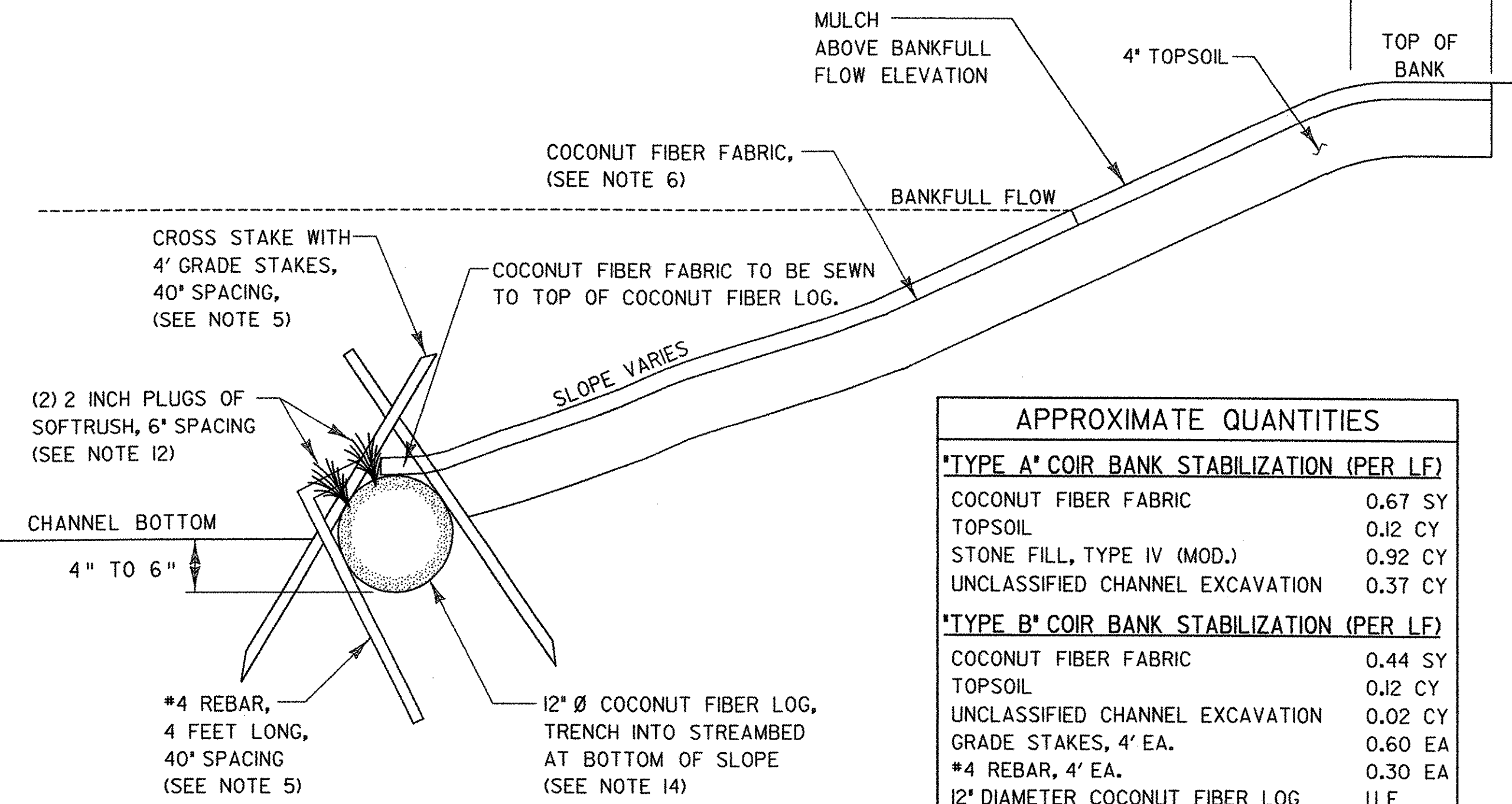
APPROXIMATE QUANTITIES	
ROCK WEIR	
ROOT WAD WITH BOLE	2 EA
5/16" GALVANIZED WIRE ROPE	20 LF
DUCKBILL ANCHOR	2 EA
STONE FILL, TYPE IV (MOD.)	350 CY
UNCLASSIFIED CHANNEL EXCAVATION	175 CY
STONE FILL, TYPE I	7 CY

- NOTES:**
- FOR BANKFULL WIDTH AND OTHER DESIGN CRITERIA, SEE TITLE SHEET.
 - FOR DESIGN BANKFULL ELEVATIONS SEE PROFILE SHEETS.
 - FOR LOCATIONS OF STRUCTURES SEE PLAN SHEETS.

- CONSTRUCT RIFFLE PERPENDICULAR TO DESIGN THALWEG. SEE CONSTRUCTION PLANS AND PROFILES FOR THALWEG LOCATIONS AND ELEVATIONS.
- STAKES AND REBAR ARE TO BE TILTED DOWNSTREAM TO AVOID SNAGGING OF DEBRIS. REBAR IS TO BE FIELD BENT TO WRAP AROUND COCONUT FIBER LOG.
- FIBER MAT SHALL BE ROLANKA BIO D-MAT 90, OR APPROVED EQUAL. FIBER MAT SHALL BE LAID WITH 2' OVERLAP IN THE DIRECTION OF FLOW AND ATTACHED TO BANK WITH 8" SOD STAPLES WITH A 2' SQUARE SPACING.
- VANE ROCKS AND WEIR ROCKS SHALL BE CLASSIFIED AS STONE FILL, TYPE IV (MOD.), AND SHALL MEET THE FOLLOWING SIZE REQUIREMENTS:
 - NO DIMENSION CAN BE < 3 FEET
 - AT LEAST 2 DIMENSIONS MUST BE > 4 FEET
 - AT LEAST 1 DIMENSION MUST BE > 5 FEET



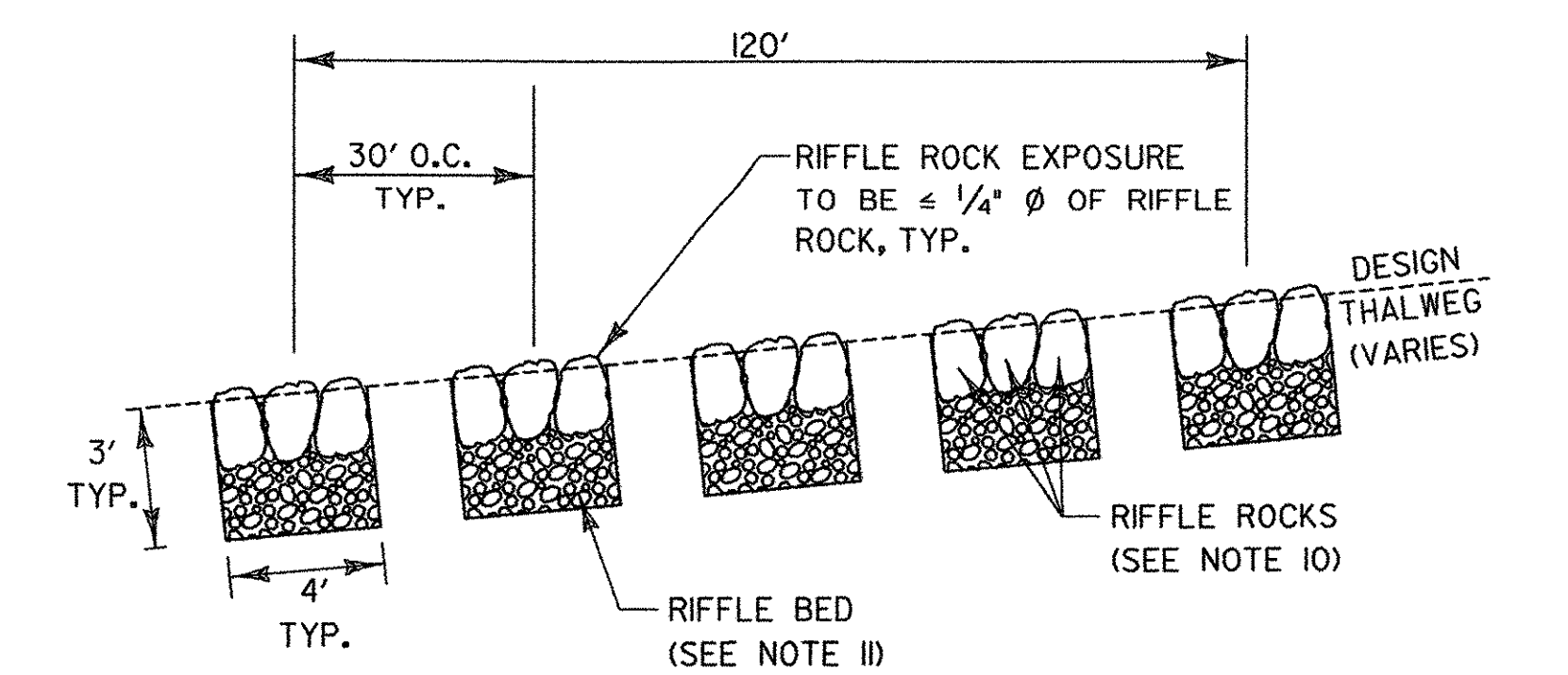
"TYPE A" COIR BANK STABILIZATION
N.T.S.



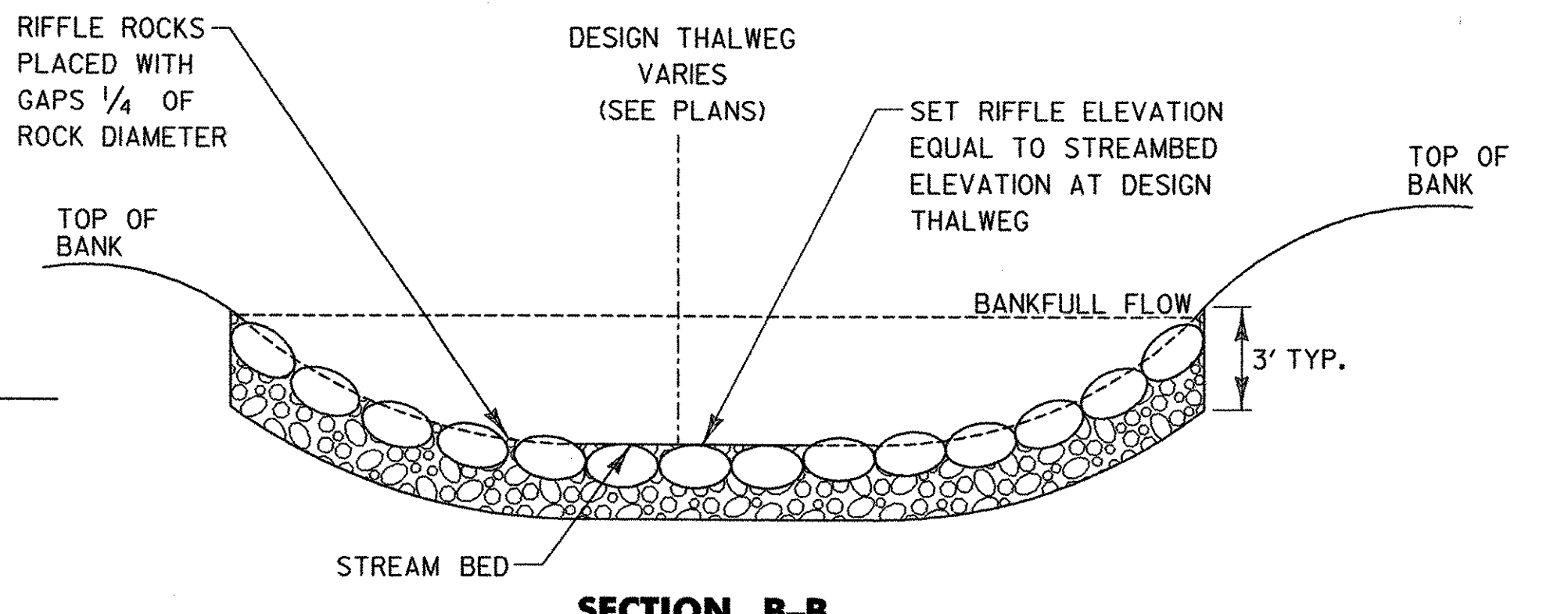
"TYPE B" COIR BANK STABILIZATION
N.T.S.

- ROOT WADS SHALL HAVE A MINIMUM FAN DIAMETER OF 6'.
- CHINK BEHIND ROCK VANES AND ROCK WEIRS WITH TYPE I STONE TO INHIBIT PIPING OF SEDIMENT THROUGH THE STRUCTURES. USE 6-8 CY TYPE I STONE PER STRUCTURE. (TYP.)
- RIFFLE ROCK SHALL BE CLASSIFIED AS STONE FILL, TYPE II (MOD.), AND SHALL MEET THE FOLLOWING SIZE REQUIREMENTS:
 - AT LEAST 2 DIMENSIONS MUST BE > 12 INCHES
 - AT LEAST 1 DIMENSION MUST BE > 15 INCHES
- RIFFLE BED MATERIAL SHALL BE CLASSIFIED AS GRANULAR BORROW (MOD.) AND SHALL CONSIST OF GRAVEL AND COBBLES TAKEN FROM BARS ABOVE BANKFULL FLOW OR OTHER GRAVEL AND COBBLES LOCATED ON SITE, AS DIRECTED BY THE ENGINEER.

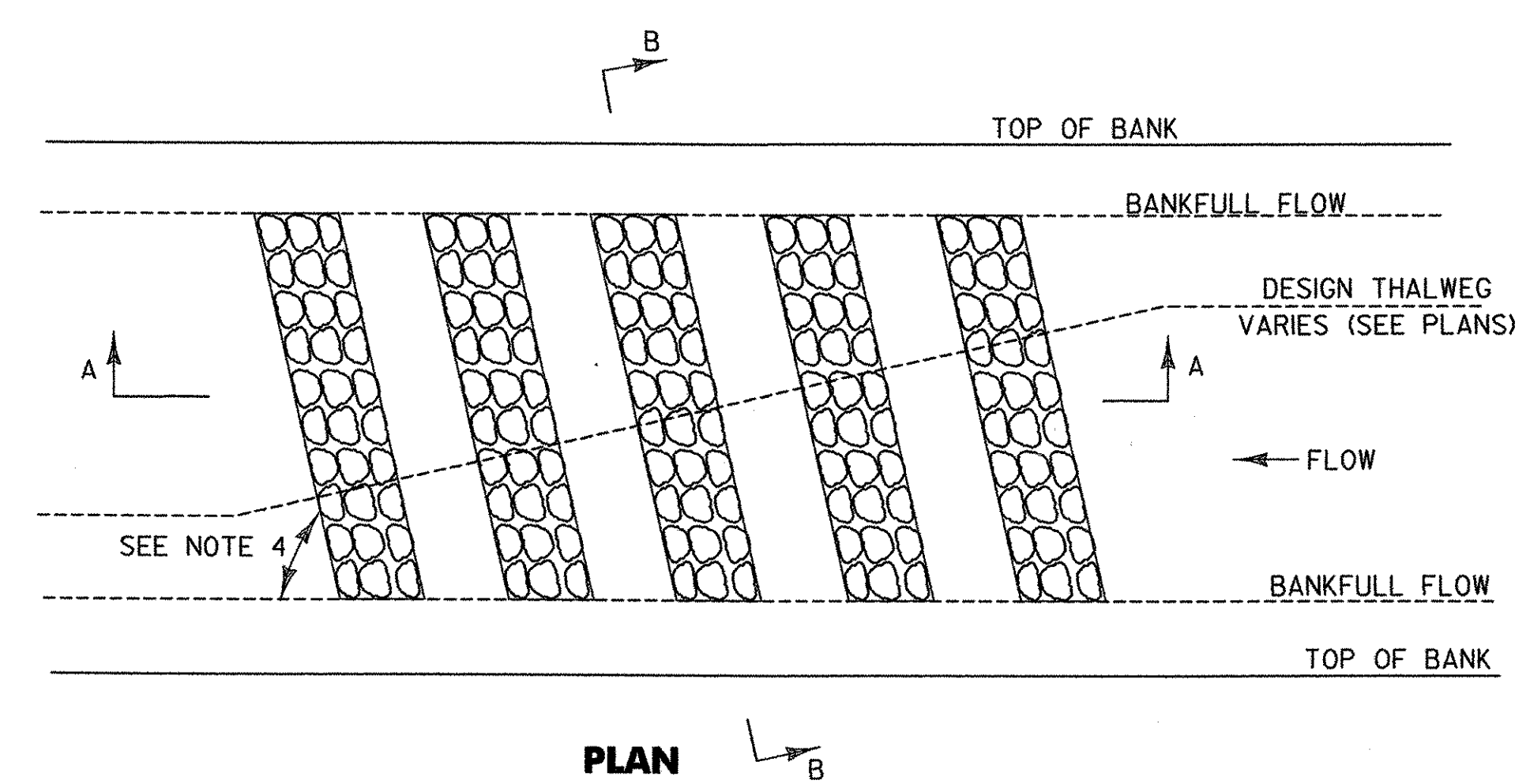
APPROXIMATE QUANTITIES	
TYPE A COIR BANK STABILIZATION (PER LF)	
COCONUT FIBER FABRIC	0.67 SY
TOPSOIL	0.12 CY
STONE FILL, TYPE IV (MOD.)	0.92 CY
UNCLASSIFIED CHANNEL EXCAVATION	0.37 CY
TYPE B COIR BANK STABILIZATION (PER LF)	
COCONUT FIBER FABRIC	0.44 SY
TOPSOIL	0.12 CY
UNCLASSIFIED CHANNEL EXCAVATION	0.02 CY
GRADE STAKES, 4' EA.	0.60 EA
*4 REBAR, 4' EA.	0.30 EA
12" DIAMETER COCONUT FIBER LOG	1 LF



SECTION A-A



SECTION B-B



PLAN

CONSTRUCTED RIFFLE
N.T.S.

APPROXIMATE QUANTITIES	
CONSTRUCTED RIFFLE	
STONE FILL, TYPE II (MOD.)	95 CY
GRANULAR BORROW (MOD.)	95 CY
UNCLASSIFIED CHANNEL EXCAVATION	190 CY



PROJECT NAME: TROUT RIVER RESTORATION
 PROJECT NUMBER: BRF-RS 0283(7)
 FILE NAME: zo2837frm.dgn
 PROJECT LEADER: GAE
 DESIGNED BY: SAR
 MISC. DETAIL SHEET 3

PLOT DATE: 06/06/2003
 DRAWN BY: MBL
 CHECKED BY: WCH
 SHEET 119 OF 140