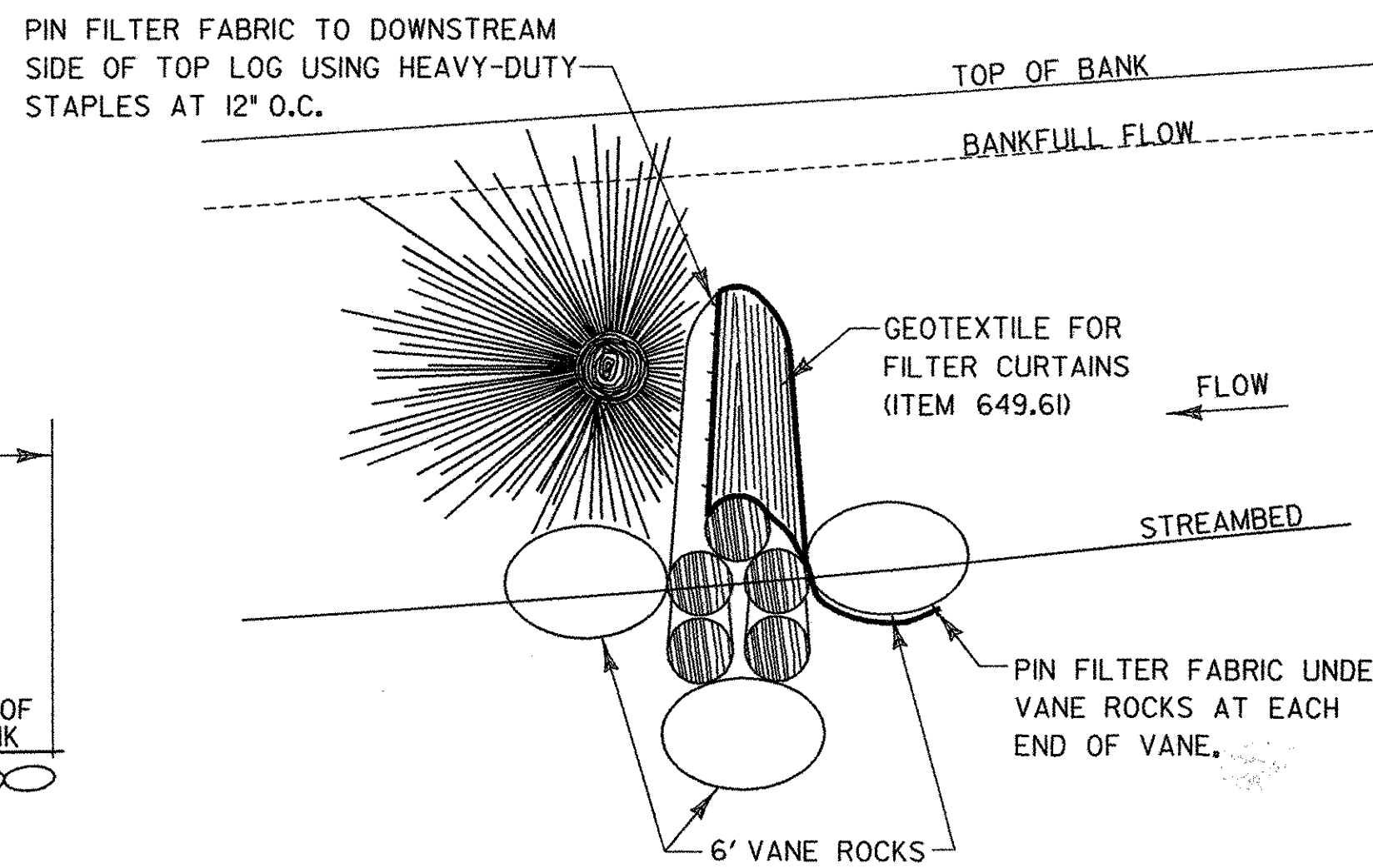
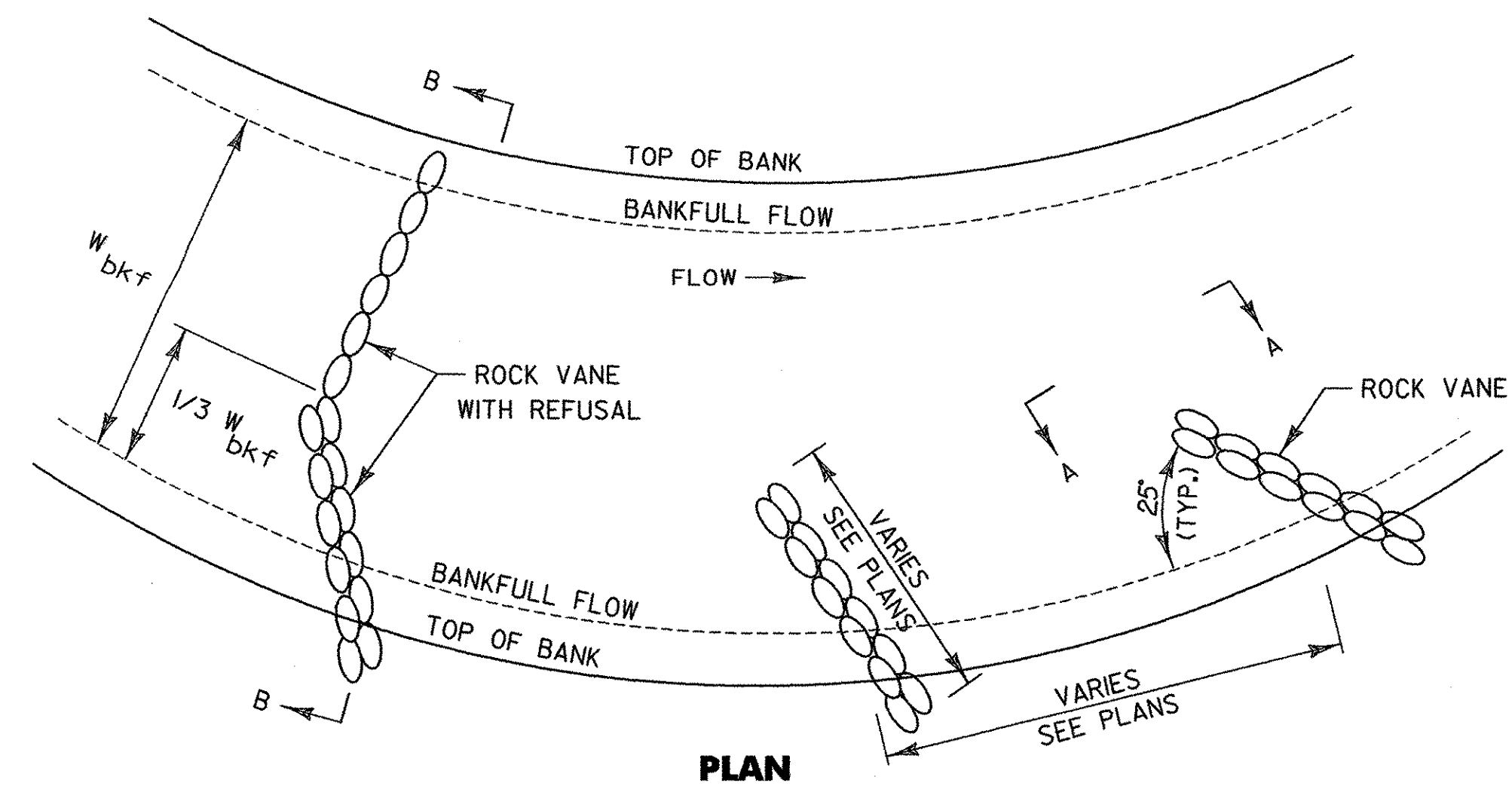


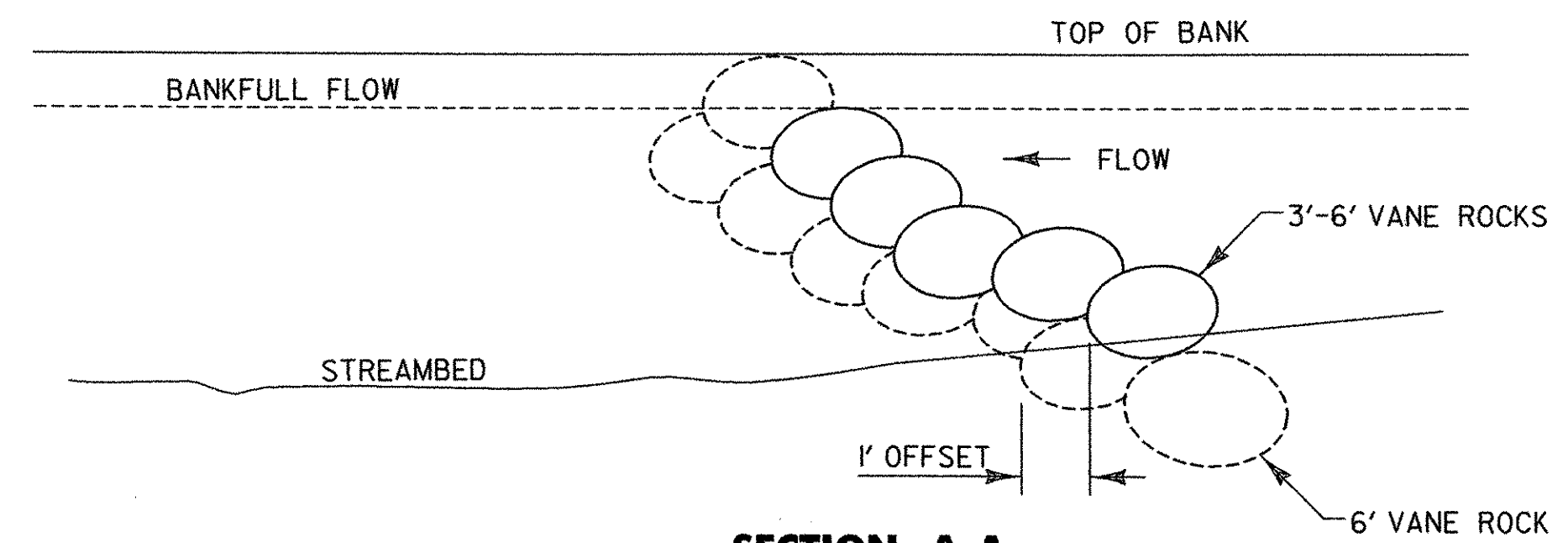
PLAN



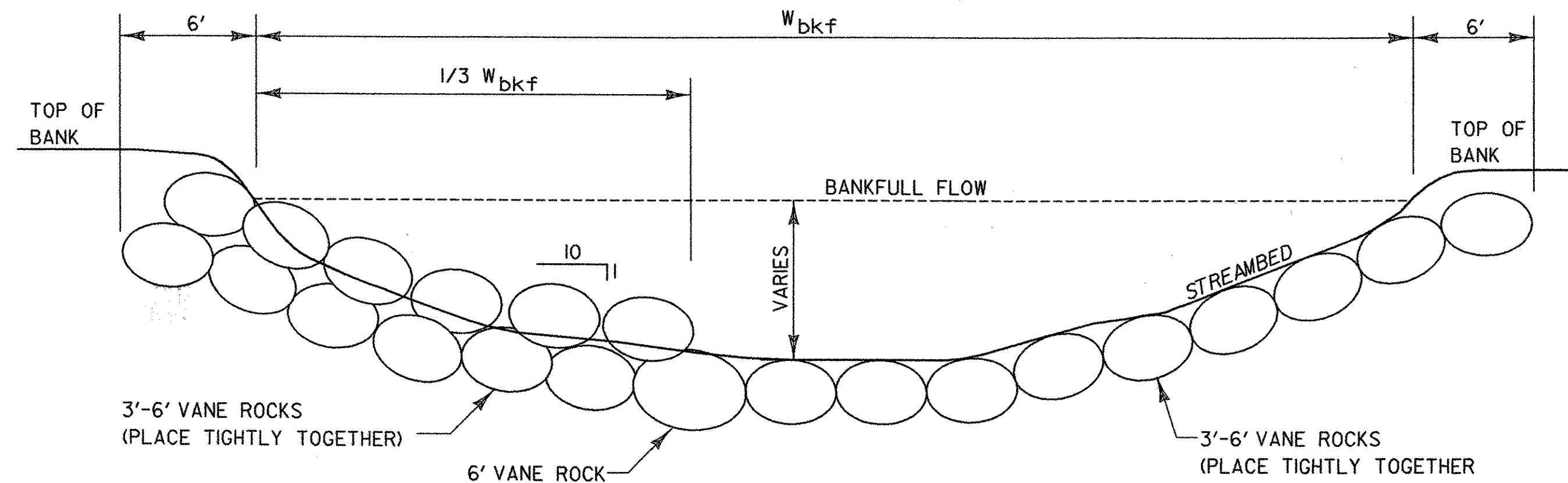
SECTION B-B



PLAN



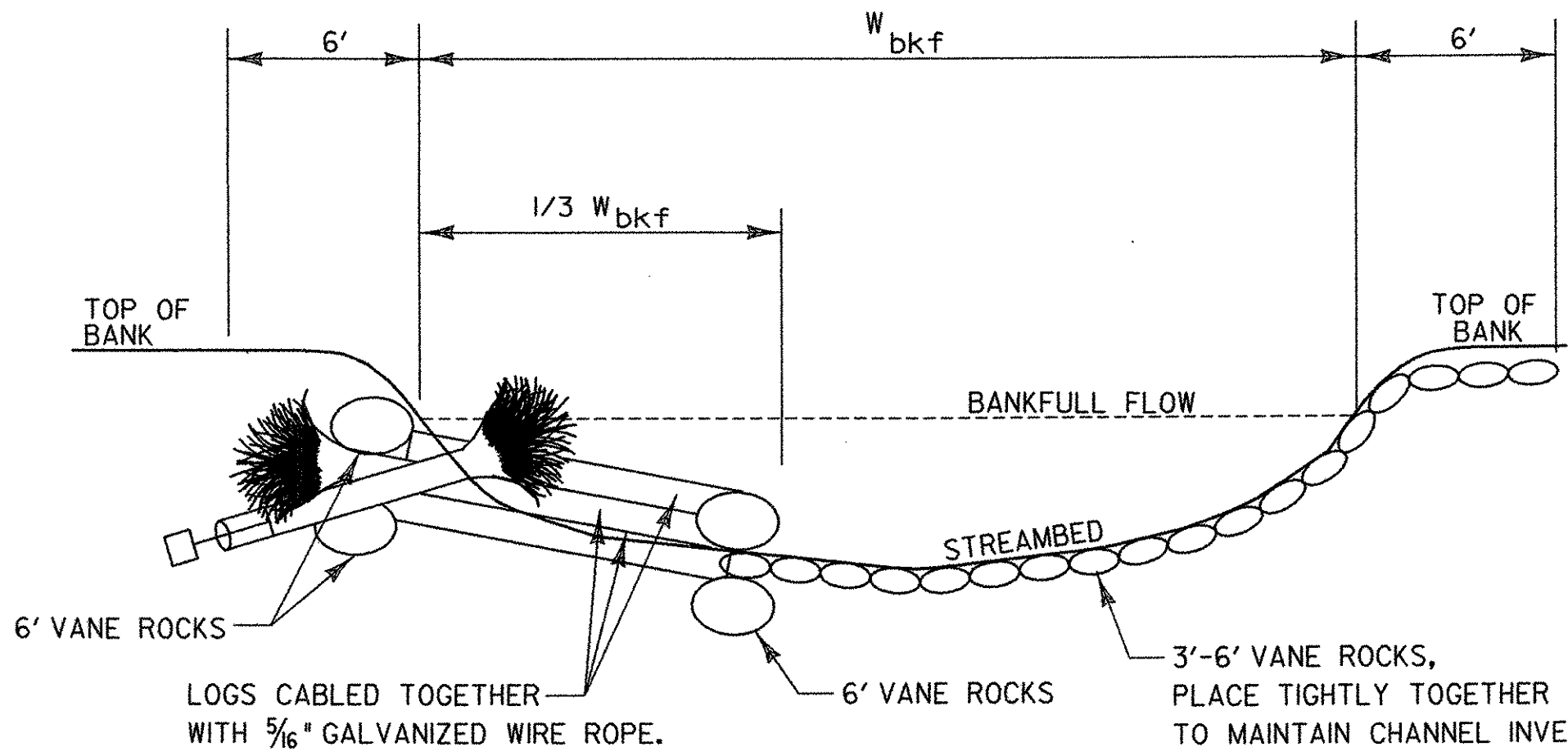
SECTION A-A



SECTION B-B

ROCK VANE
N.T.S.

APPROXIMATE QUANTITIES	
ROCK VANE	
STONE FILL, TYPE IV (MOD.)	148 CY
UNCLASSIFIED CHANNEL EXCAVATION	74 CY
STONE FILL, TYPE I	7 CY
ROCK VANE REFUSAL	
STONE FILL, TYPE IV (MOD.)	58 CY
UNCLASSIFIED CHANNEL EXCAVATION	58 CY



SECTION A-A

APPROXIMATE QUANTITIES	
LOG VANE	
STONE FILL, TYPE IV (MOD.)	27 CY
12" DIAMETER LOGS	400 LF
ROOT WAD WITH BOLE	2 EA
GEOTEXTILE FOR FILTER CURTAIN	45 SY
5/16" GALVANIZED WIRE ROPE	40 LF
UNCLASSIFIED CHANNEL EXCAVATION	34 CY
DUCKBILL ANCHOR	1EA
LOG VANE REFUSAL	
STONE FILL, TYPE IV (MOD.)	58 CY
UNCLASSIFIED CHANNEL EXCAVATION	58 CY

LOG VANE
N.T.S.

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.
- 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
- 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.)
- LOGS ARE TO BE MIN. 12" DIAMETER HEMLOCK, OR OTHER MATERIAL AS APPROVED BY THE ENGINEER. BOLES SHALL BE AS STRAIGHT AS POSSIBLE AND ALL SIDE BRANCHES SHALL BE CUT TO A LENGTH OF 1' OR LESS. LOGS SHALL BE CABLED TOGETHER IN AT LEAST TWO LOCATIONS WITH 5/16" 7 X 19 GALVANIZED WIRE ROPE, HAVING A MIN. BREAKING STRENGTH OF 9800 LBS.
- DUCKBILL ANCHORS SHALL BE DUCKBILL EARTH ANCHOR SYSTEMS MODEL I38 OR APPROVED EQUAL. ANCHORS SHALL HAVE A MINIMUM OF 5000 LBS OF ANCHOR HOLDING POWER IN NORMAL SOIL. ANCHORS SHALL BE ATTACHED TO TREES WITH 5/16" 7 X 19 GALVANIZED WIRE ROPE HAVING A MIN. BREAKING STRENGTH OF 9800 LBS.



PROJECT NAME: TROUT RIVER RESTORATION
 PROJECT NUMBER: BRP-RS 0283(7)
 FILE NAME: zo2837frm.dgn
 PROJECT LEADER: GAE
 DESIGNED BY: SAR
 MISC. DETAIL SHEET 1
 PLOT DATE: 06/06/2003
 DRAWN BY: MBL
 CHECKED BY: WCH
 SHEET 117 OF 140

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