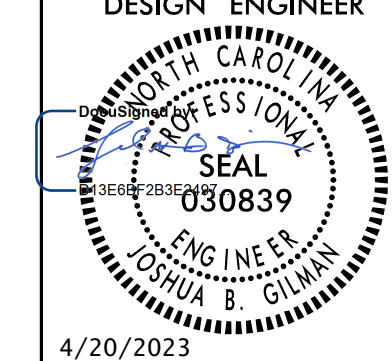
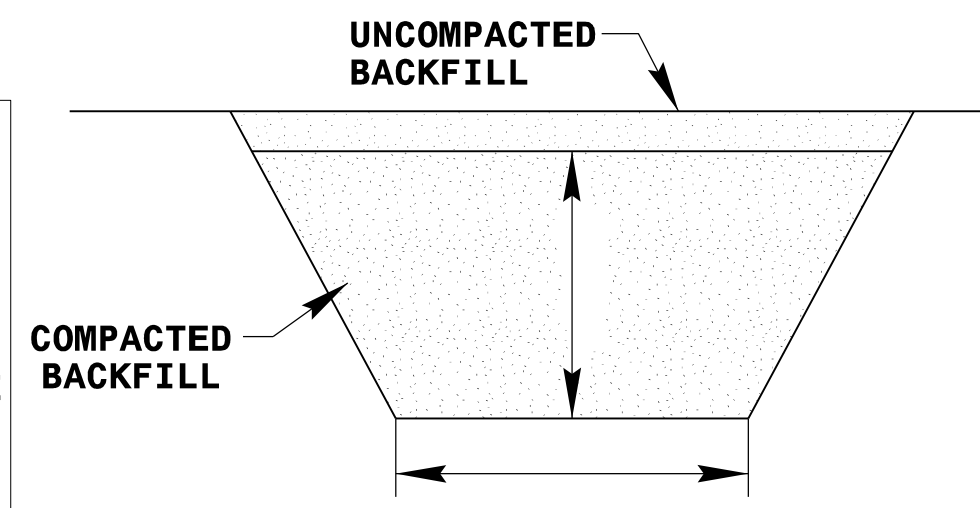


R-2707D CHANNEL RELOCATION CLEVELAND COUNTY

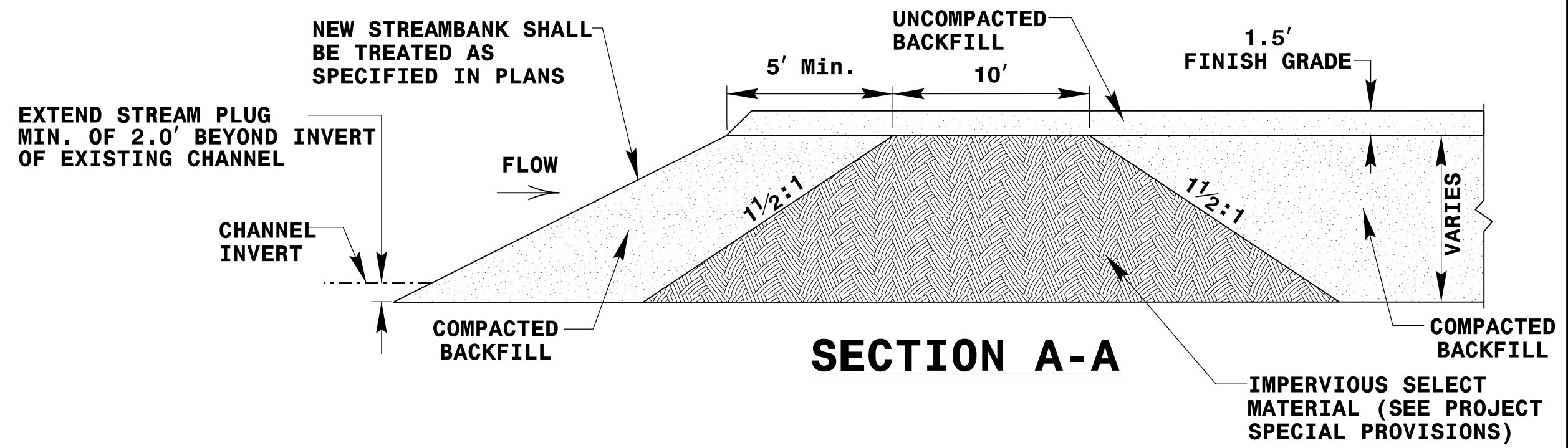
PROJECT REFERENCE NO. R-2707D	SHEET NO. NS-2D
DESIGN ENGINEER	
	

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

- NOTES:**
1. STREAM PLUG SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 2. PLUG SHOULD BE INSTALLED AT THE INTERFACE BETWEEN EXISTING CHANNEL AND PROPOSED CHANNEL.
 3. BOTTOM OF PLUG SHOULD BE A MINIMUM OF 2.0' BELOW THE INVERT OF THE EXISTING CHANNEL.
 4. PLUG SHOULD EXTEND A MINIMUM OF 2.0' BEYOND THE LIMITS OF THE EXISTING STREAM CHANNEL.
 5. INSTALL EROSION CONTROL MATTING AND SEED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS IMMEDIATELY AFTER GRADING.
 6. COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.

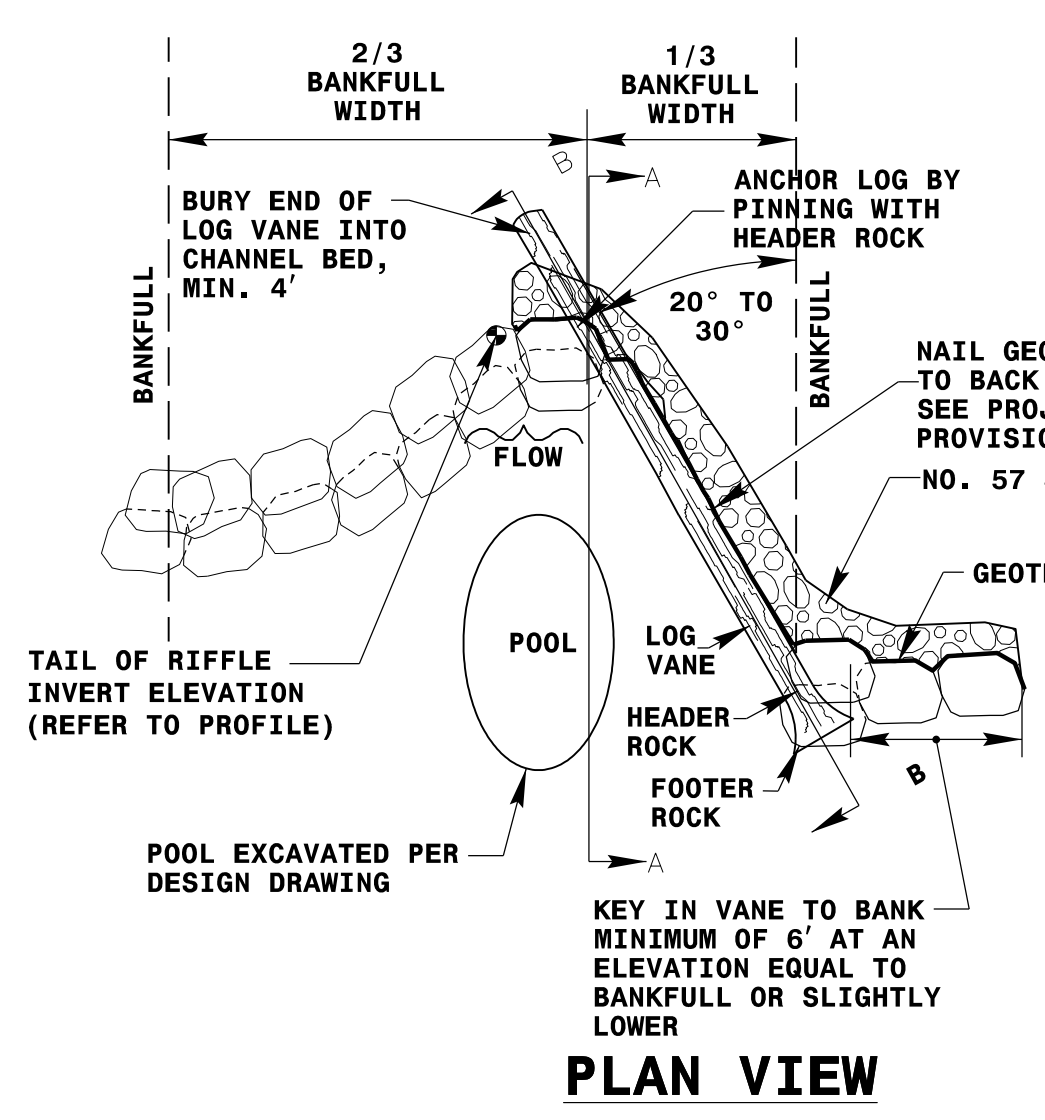


SECTION B-B

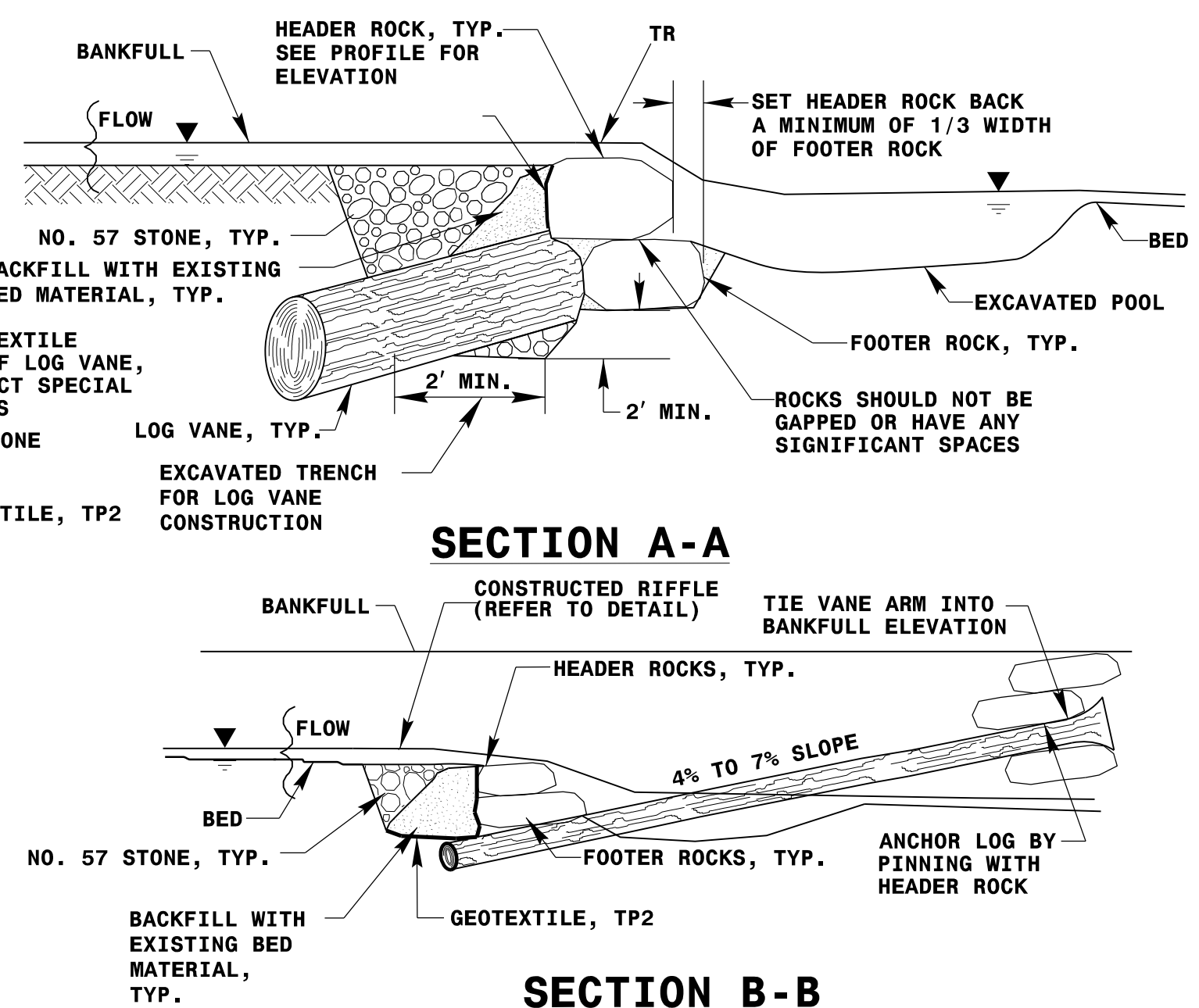


SECTION A-A

NOTE: REFER TO CONSTRUCTED RIFFLE DETAIL FOR BOULDER SIZES



PLAN VIEW



SECTION A-A

SECTION B-B

- NOTES:**
1. DEEPEST PART OF POOL (MAX POOL).
 2. DO NOT EXCAVATE POOL TOO CLOSE TO FOOTER BOULDERS.
 3. CLASS "A" STONE CAN BE USED TO REDUCE VOIDS BETWEEN HEADERS AND FOOTERS.
 4. COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.
 5. POOL DEPTH SHOULD BE 2 TO 3 TIMES BANKFULL DEPTH.

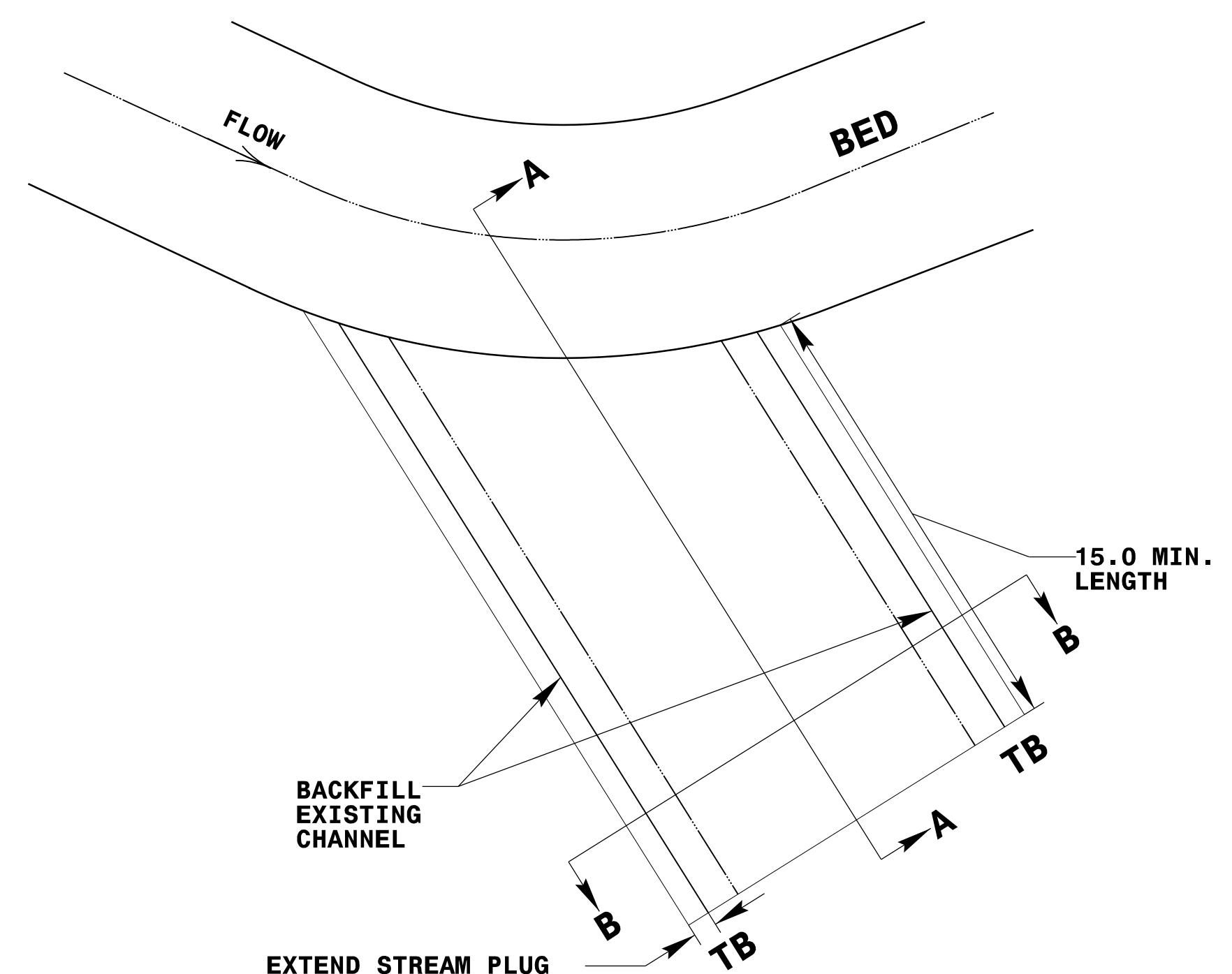
NOTE: NUMBER OF STONES VARY DEPENDING ON 1/3 BANFULL WIDTH

REFER TO CONSTRUCTED RIFFLE DETAIL FOR BOULDER SIZES

#57 STONE GRADATION	
1.5"	100
1"	85-100
0.5"	25-60
#4	0.10
#8	0.5

LOG VANE WITH ROCK J-HOOK DETAIL (MODIFIED)

NOT TO SCALE



PLAN VIEW

STREAM PLUG

NOT TO SCALE