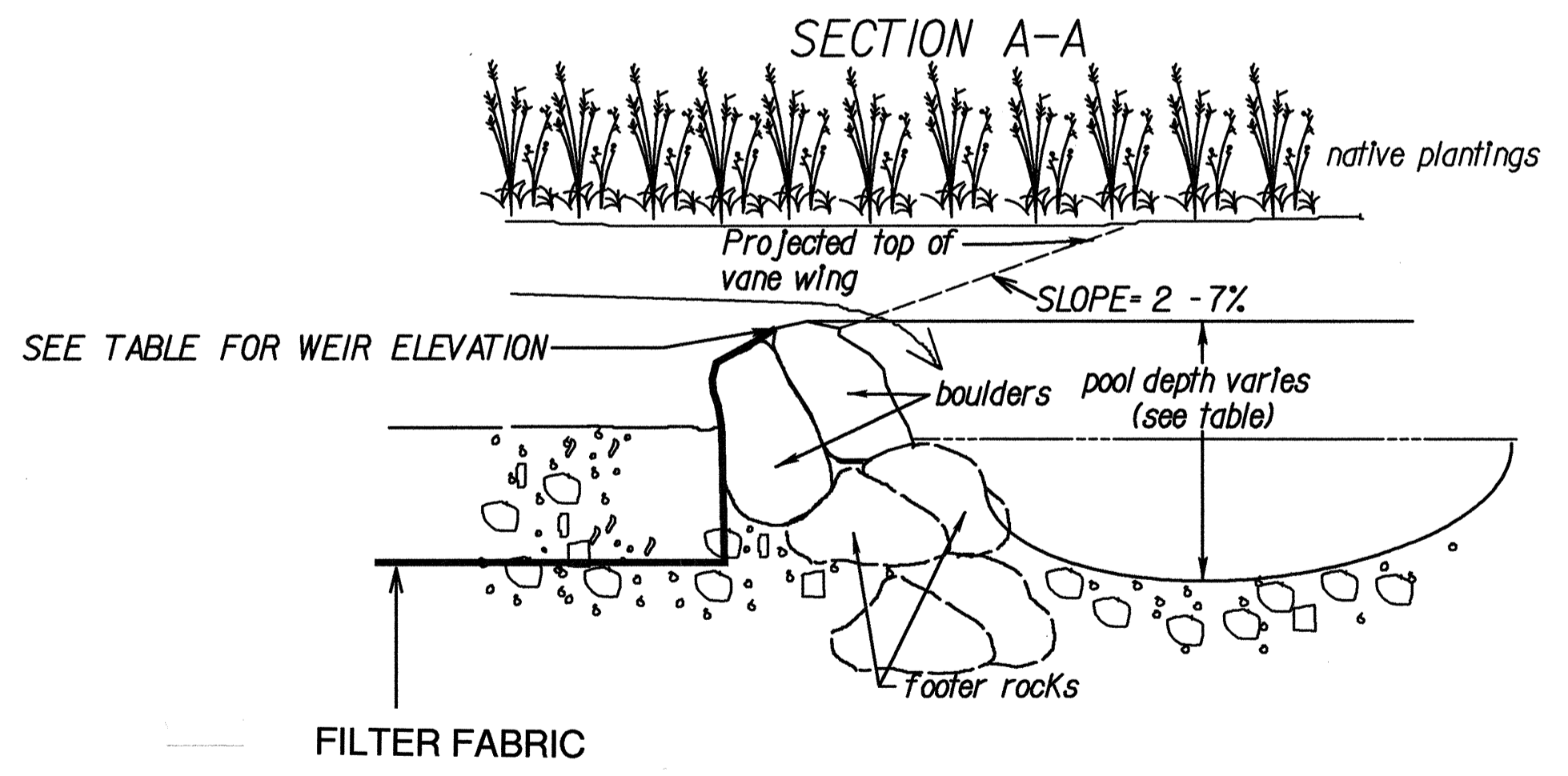
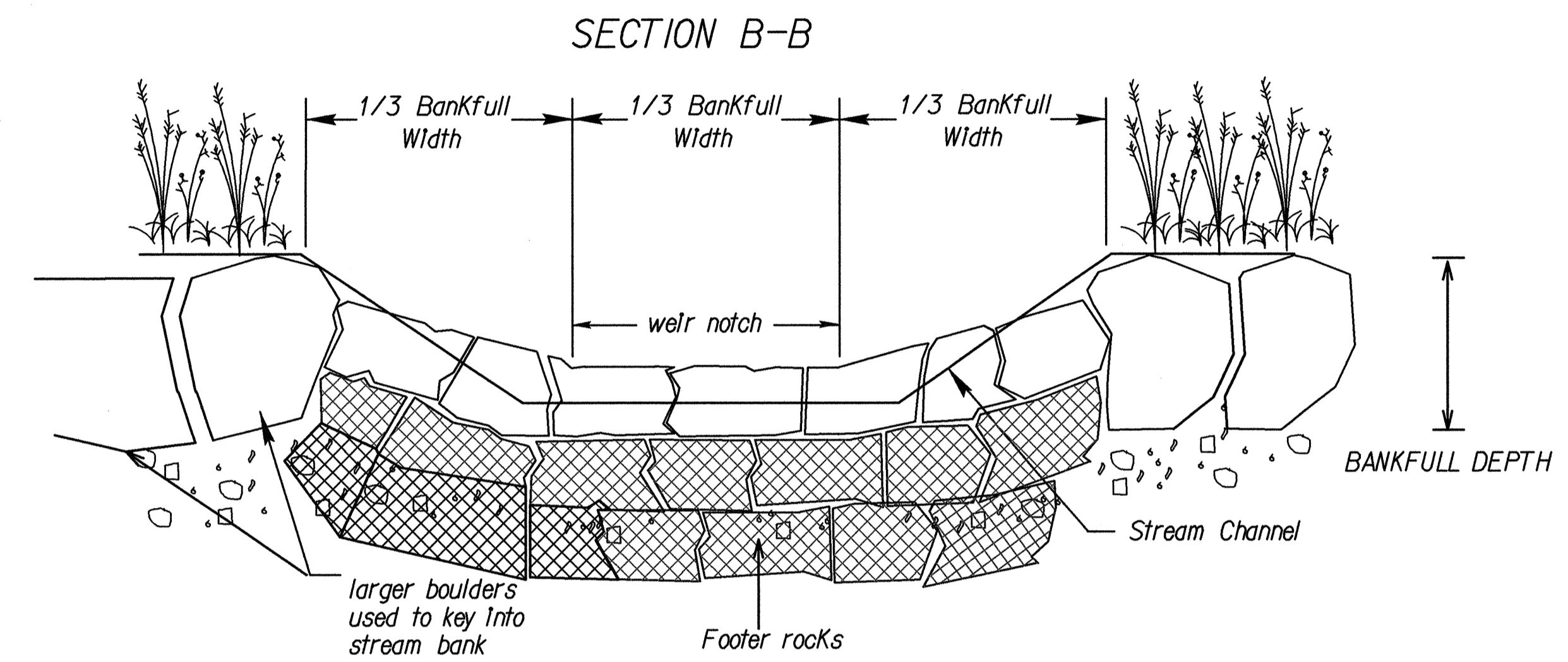
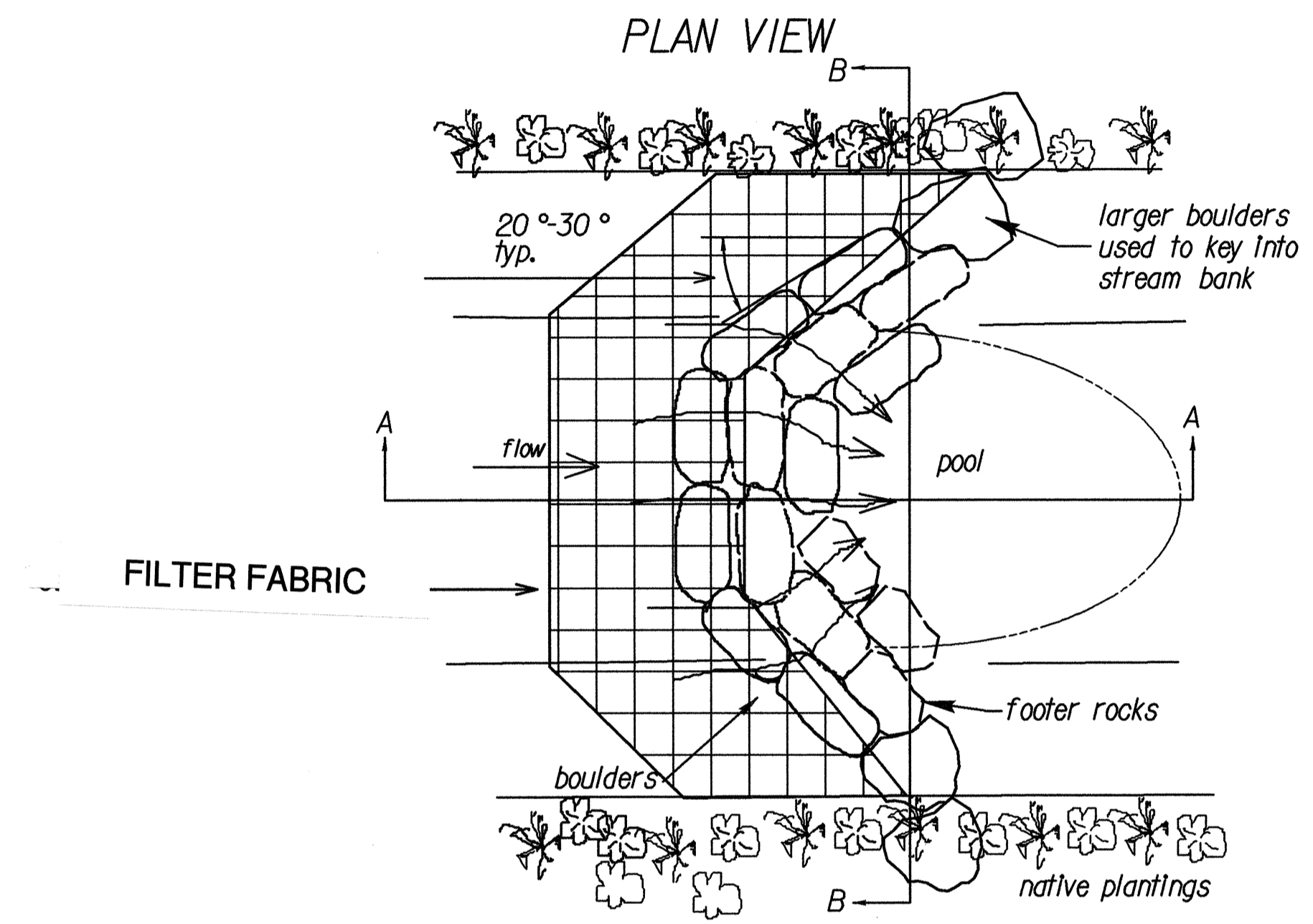


CROSS VANE ROCK WEIR DETAIL



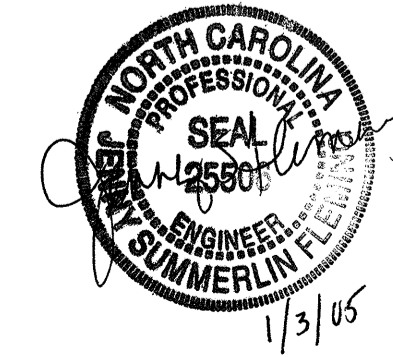
NOTE: Boulders should be native quarried rock or locally shot rock, angular and oblong with approximate minimum dimensions as listed in table.

Rocks should fit tightly with minimal spaces

FILTER FABRIC should be placed on upstream side of boulders. Fabric should be overlain on exposed boulders and buried to a minimum depth as directed by on site engineer. Fabric should extend upstream a minimum length of 2 m or as directed by on site engineer. Fabric should be backfilled with existing bed material.

| PIPE DIAMETER | BOULDER DIMENSIONS | POOL DEPTH |
|--------------------------------|-----------------------------------|------------------|
| 450mm - 900mm (15' - 36') | 1.2m x 1.0m x 0.6m (4' x 3' x 2') | Min. 0.3m (1.0') |
| 1050mm - 1650mm (42' - 66') | 1.5m x 1.2m x 0.6m (5' x 4' x 2') | Min. 0.6m (2.0') |
| 1800mm & Larger (72' & Larger) | 1.8m x 1.2m x 1.0m (6' x 4' x 3') | Min. 1.0m (3.0') |

PROJECT R-977A
CHEROKEE COUNTY
 STATION _____



DRAWN BY JSE DATE 4/04
 CHECKED BY GLS DATE 4/04

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

CROSS VANE
 DETAIL