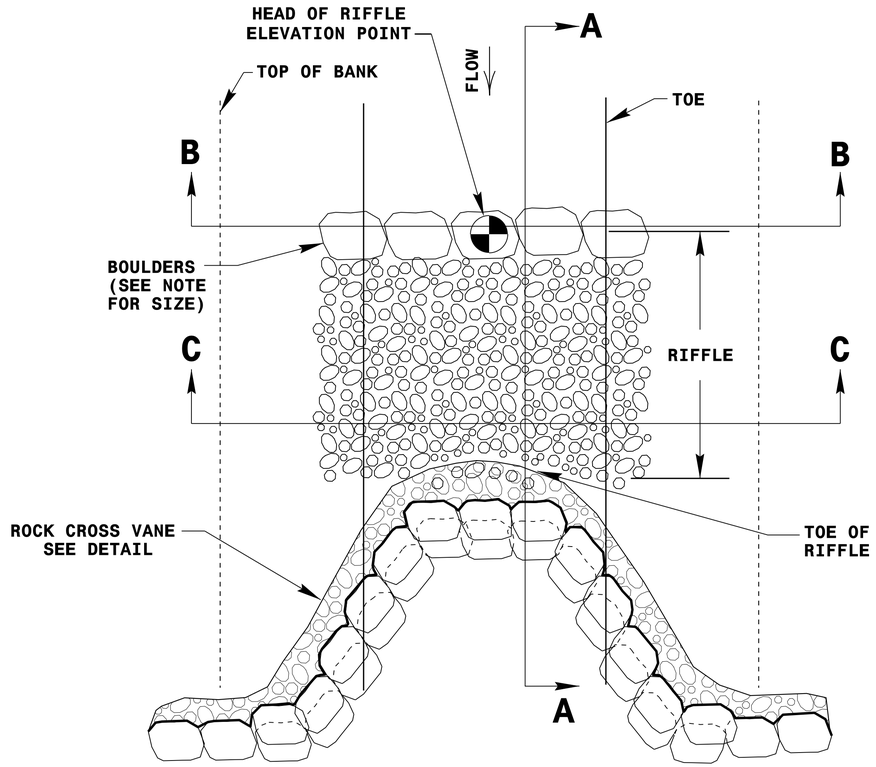
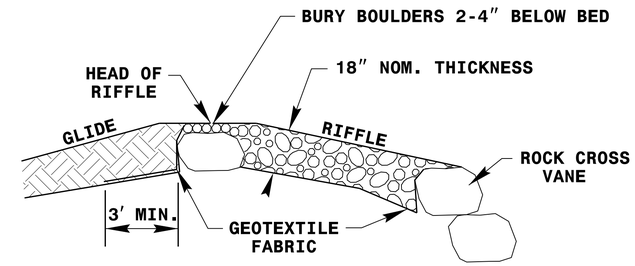
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-3615B | NS-5 |
| R/W SHEET NO. | |

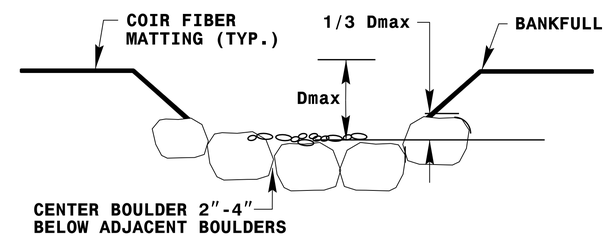
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 012575 ENGINEER Paul F. Fisher
1/6/2015
DocuSigned by: Paul Fisher



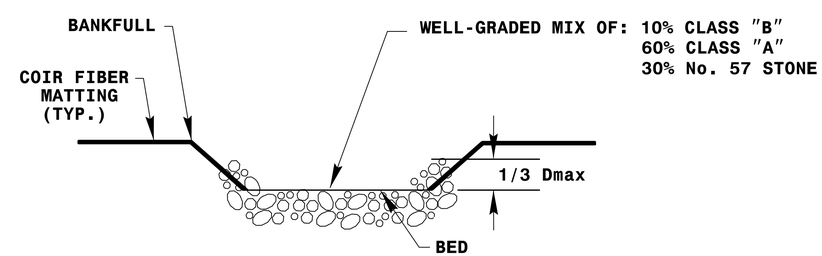

## PLAN VIEW




## SECTION A-A




## SECTION B-B




## SECTION C-C

| REACH | NO. RIFFLES | ESTIMATED QUANTITIES | | | | | |
|---|---|---|---|---|---|---|---|
| | | #57 STONE | CL. A RIP RAP | CL. B RIP RAP | # BLDRS. | WT. BLDRS. | GEOTEXTILE FABRIC |
| 1 | 5 | 45 TONS | 75 TONS | 13 TONS | 20 | 15 TONS | 20 S.Y. |
| 2 | 6 | 80 TONS | 130 TONS | 22 TONS | 25 | 20 TONS | 25 S.Y. |
| TOTAL | 11 | 125 TONS | 205 TONS | 35 TONS | 45 | 35 TONS | 45 S.Y. |

# CONSTRUCTED RIFFLE DETAIL

NOT TO SCALE

NOTE:
1. BOULDERS SHOULD BE NATIVE STONES OR SHOT ROCK, ANGULAR AND OBLONG, WITH AXES APPROXIMATELY (3′L x 2′W x 1.5′D).

2. SEE CHANNEL TYPICAL DETAIL FOR RIFFLE DIMENSIONS.

NATURAL STREAM DESIGN
CONSTRUCTED RIFFLE DETAIL

5/14/99
06-JAN-2015 07:46
Drainage\Natural Stream Design 2014\ns-3_to_ns-10 2014.dgn
$$$$USERNAME$$$$