PIPE OR OUTFLOW

PLAN VIEW

A

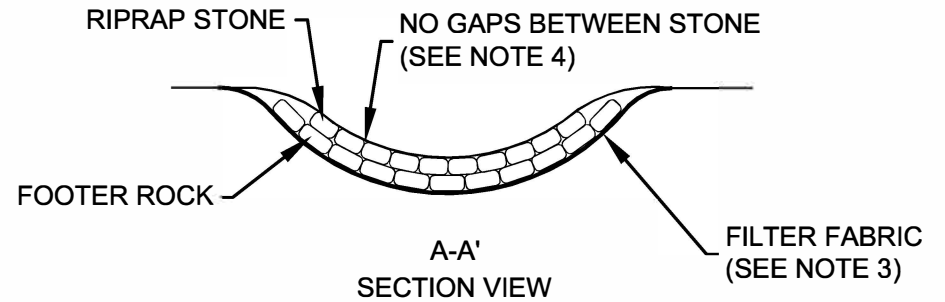A'

FLOW

L   L   L

H

H

PROFILE VIEW

GENERAL NOTES:

1. L IS THE STEP LENGTH. THE LENGTH SHALL BE 1 TO 4 TIMES THE WIDTH OF THE CHANNEL.

2. H IS THE STEP HEIGHT. THE HEIGHT SHALL SATISFY THE EQUATION $(1 < (H/L)_{AVE}/S < 2)$ WHERE S IS THE CHANNEL SLOPE.

3. INSTALL FILTER FABRIC UNDER FOOTER STONES BURIED BELOW THE CHANNEL INVERT.

4. CONSTRUCT WEIR STEPS ON THE FOOTER STONES WITH THE LOW POINT IN THE CENTER OF THE STEP. ABUT STONES CLOSE TOGETHER SO THAT THERE ARE NO GAPS BETWEEN THE STONES.

5. THE WATER DEPTH BEHIND THE WEIR SHOULD BE HALF THE STEP DEPTH (0.5H).

RIPRAP STONE

NO GAPS BETWEEN STONE (SEE NOTE 4)

FOOTER ROCK

FILTER FABRIC (SEE NOTE 3)

A-A'
SECTION VIEW

TOWN OF CHAPEL HILL
TOWN OF CHAPEL HILL
STANDARD DETAIL

REVISIONS

STEEP SLOPES

DATE: 02/2017

EC-7.00

"NOT TO SCALE"