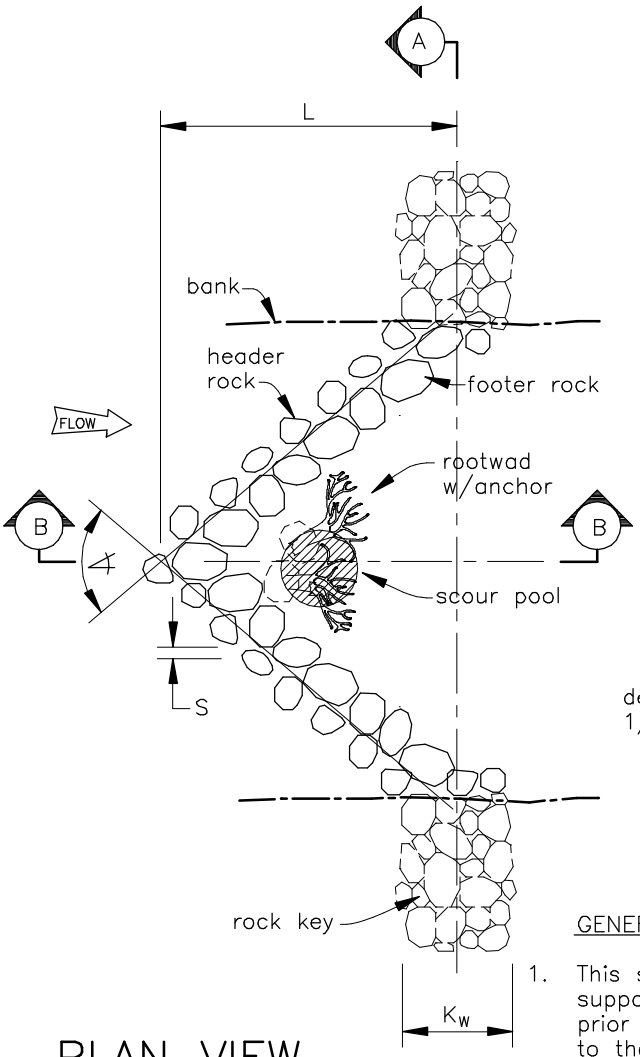
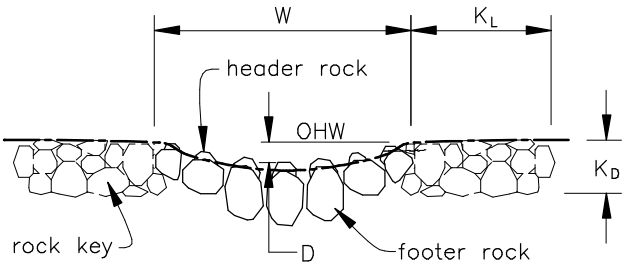
| WASHINGTON STANDARD DRAWING | BIOENGINEERING BANK PROTECTION<br>ANGLED VORTEX ROCK WEIR w/ROOTWADS | STANDARD DRAWING NO.<br>BIO–0051<br>APPROVED BY: LAJ<br>DRAWN BY: KLY<br>ISSUE DATE: 2/99 |
|---|---|---|

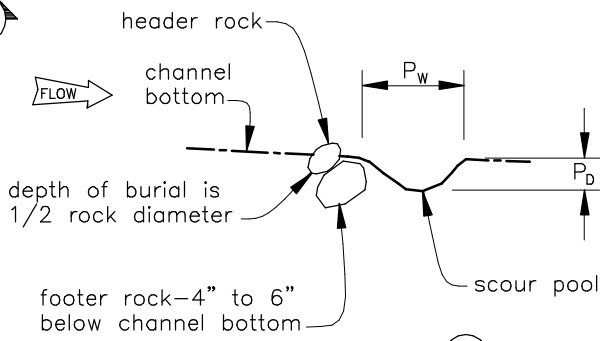



PLAN VIEW

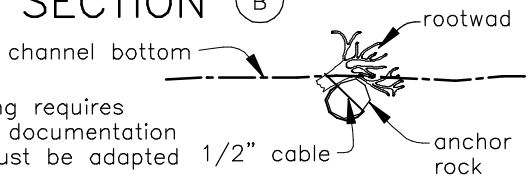



Note: Scour pool is not shown in this view.

SECTION (A)




SECTION (B)




ANCHOR DETAIL

GENERAL NOTES

1. This standard drawing requires supporting technical documentation prior to use and must be adapted to the specific site.

A

DIMENSIONS

∡ = _____ (deg)

L = _____ (ft)

W = _____ (ft)

D = _____ (ft)

$K_L$ = _____ (ft)

$K_W$ = _____ (ft)

$K_D$ = _____ (ft)

S = _____ (ft)

$P_W$ = _____ (ft)

$P_D$ = _____ (ft)

ROCK KEY GRADATION

$D_{100}$ = _____ min (in) _____ max (in)

$D_{75}$ = _____ min (in) _____ max (in)

$D_{50}$ = _____ min (in) _____ max (in)

$D_{min}$ = _____ min (in) _____ max (in)

VORTEX WEIR ROCK DIAMETER

HEADER ROCK:

Dia = _____ min (in) _____ max (in)

FOOTER ROCK:

Dia = _____ min (in) _____ max (in)

ROOTWAD W/ANCHOR

ROOTWAD:

Trunk dia. = _____ (in)

Wad mass dia. = _____ (ft)

Length = _____ (ft)

ANCHOR ROCK:

Dia = _____ min (in) _____ max (in)

drawing not to scale

| | JOB CLASS | | Date |
|---|---|---|---|
| | CAD FILE NO. BIO–0051.DWG | Designed | |
| | | Drawn | |
| | SHEET OF | Checked | |
| U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE | | Approved | |