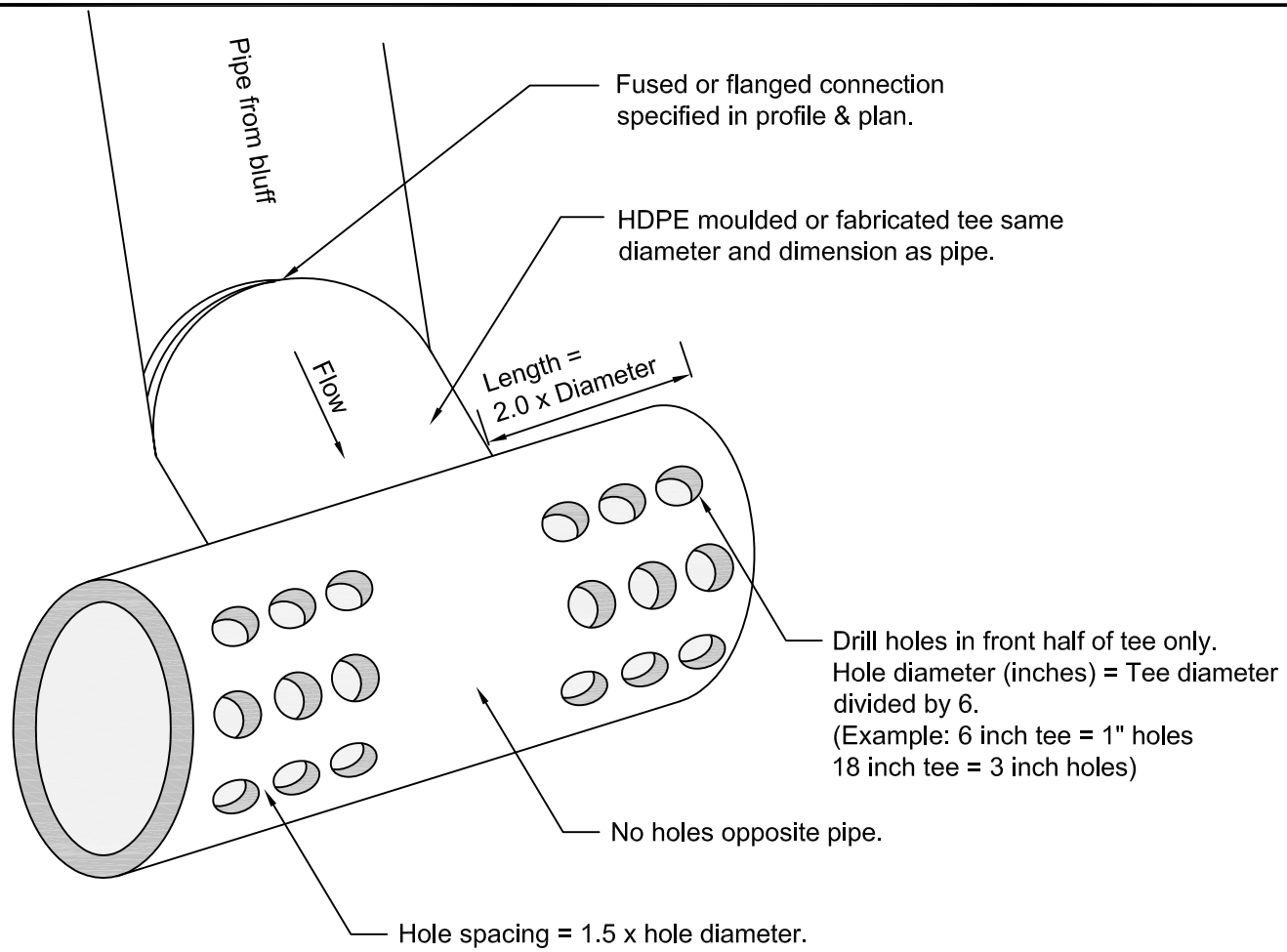
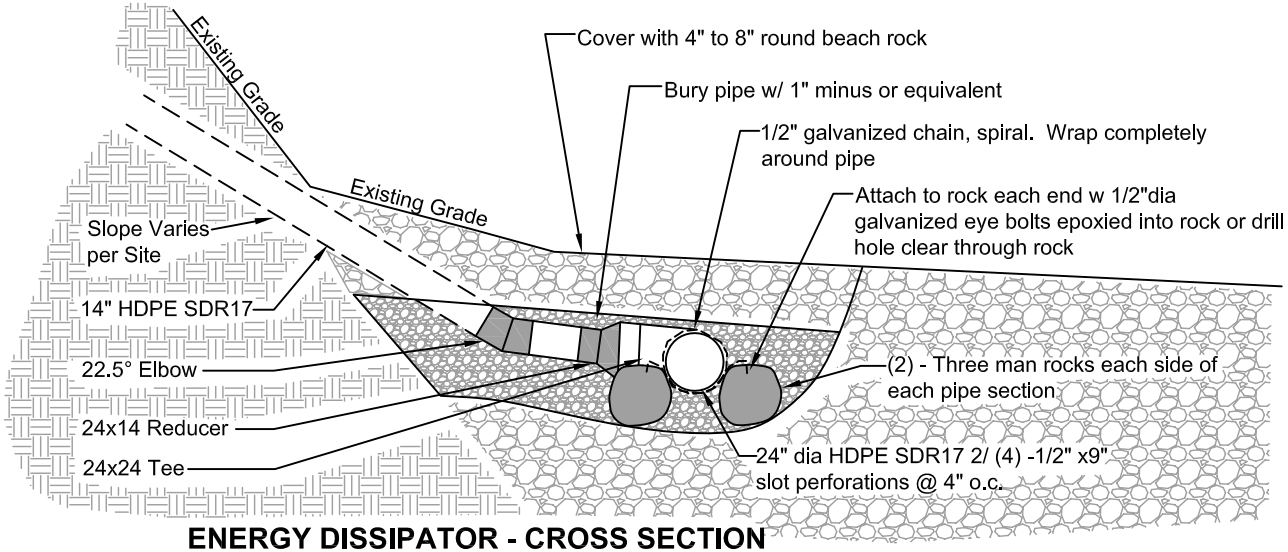


This drawing is only a template that needs to be adjusted and revised for each project.

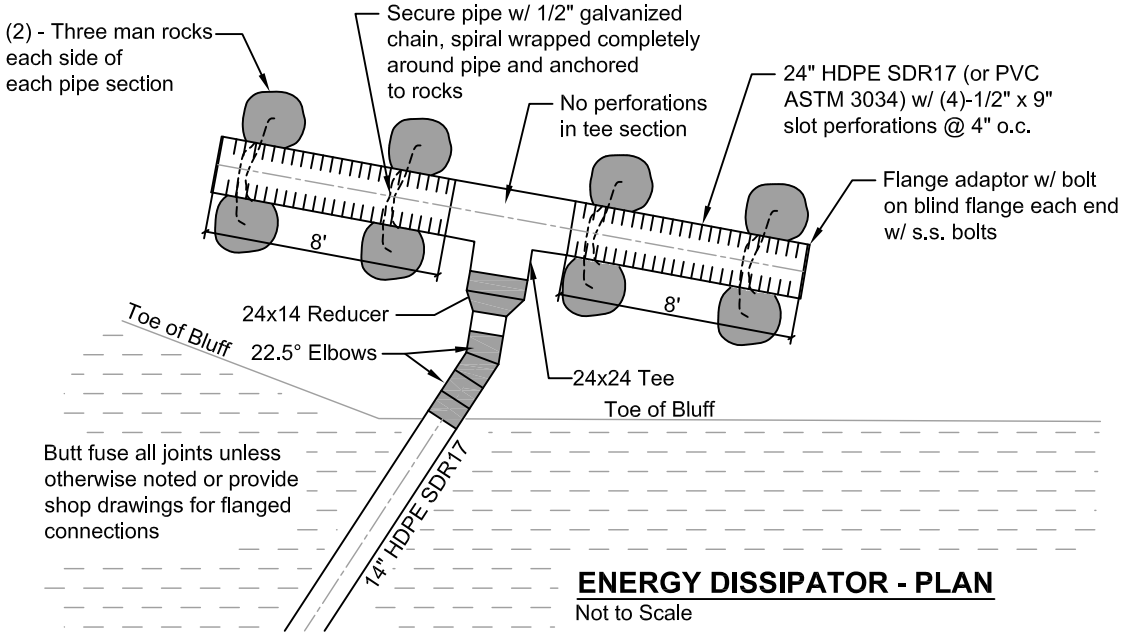
Note:
1. Source: Washington State Department of Transportation (WSDOT) Highway Runoff Manual, Figure 5-71.

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M - 1** **Diffuser Tee - WSDOT HRM Figure. 5-71** **Softshore Detail**	Date: 12 - 1 - 14 Sheet: 1 of 1



ENERGY DISSIPATOR - CROSS SECTION

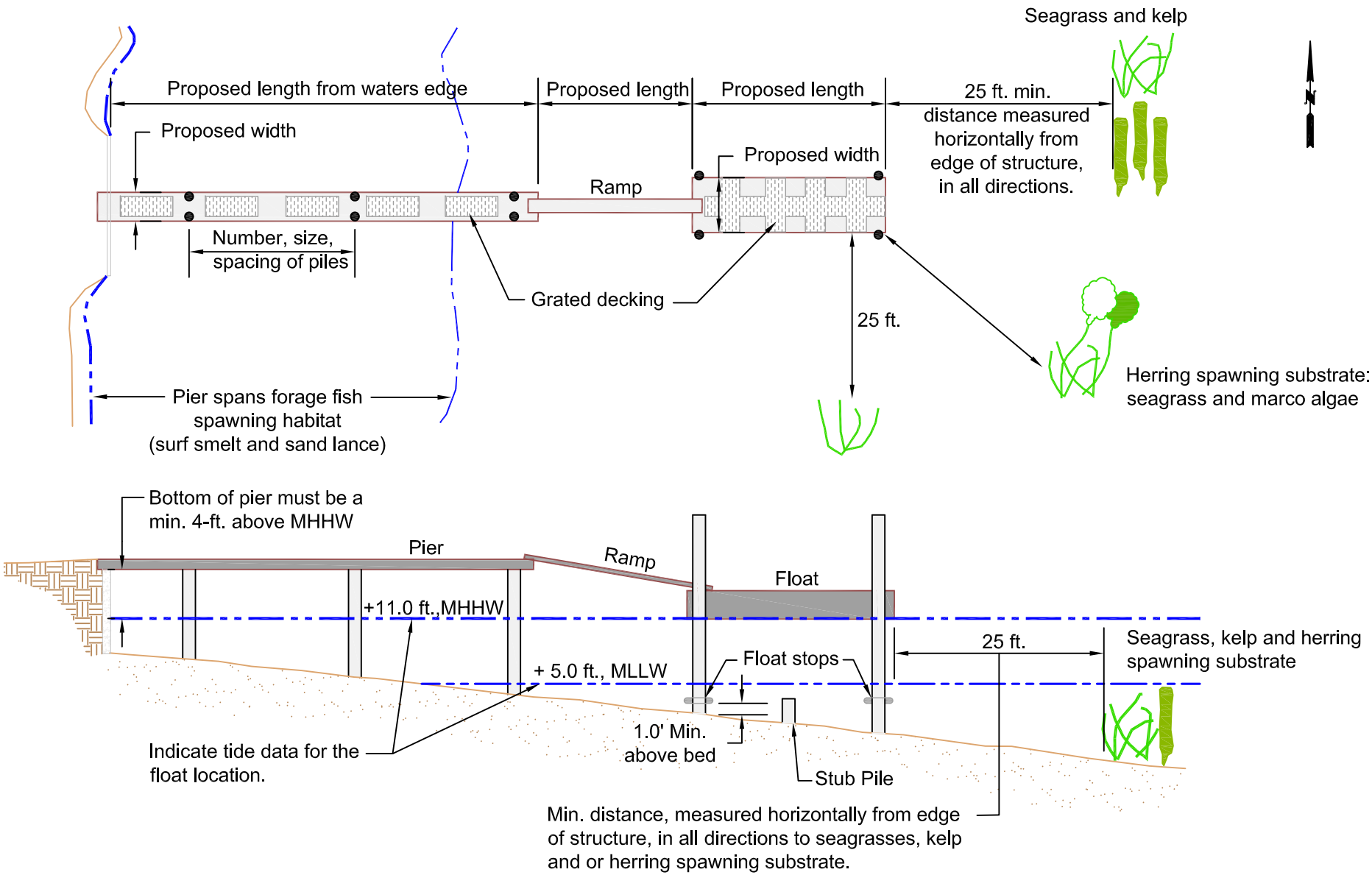
Not to Scale



ENERGY DISSIPATOR - PLAN

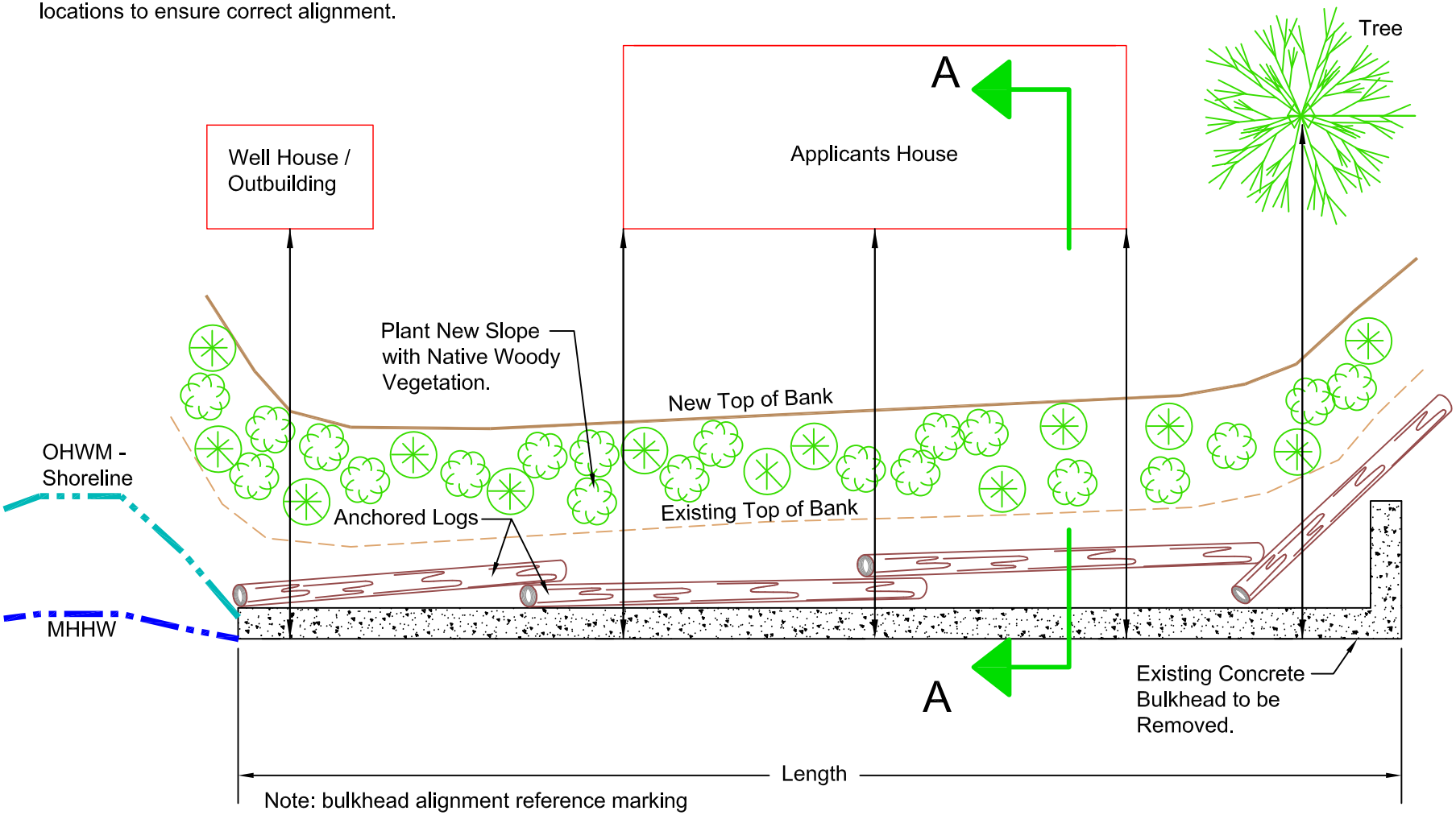
Not to Scale

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M -1a** **Diffuser Tee-Buried (on High Energy Beach)** **Softshore Detail**	Date: 12 - 1 - 14 Sheet: 1 of 1



Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M - 2** **PIER TO RAMP TO FLOAT DETAIL**	Date: 12 - 1 - 14 Sheet: 1 of 1

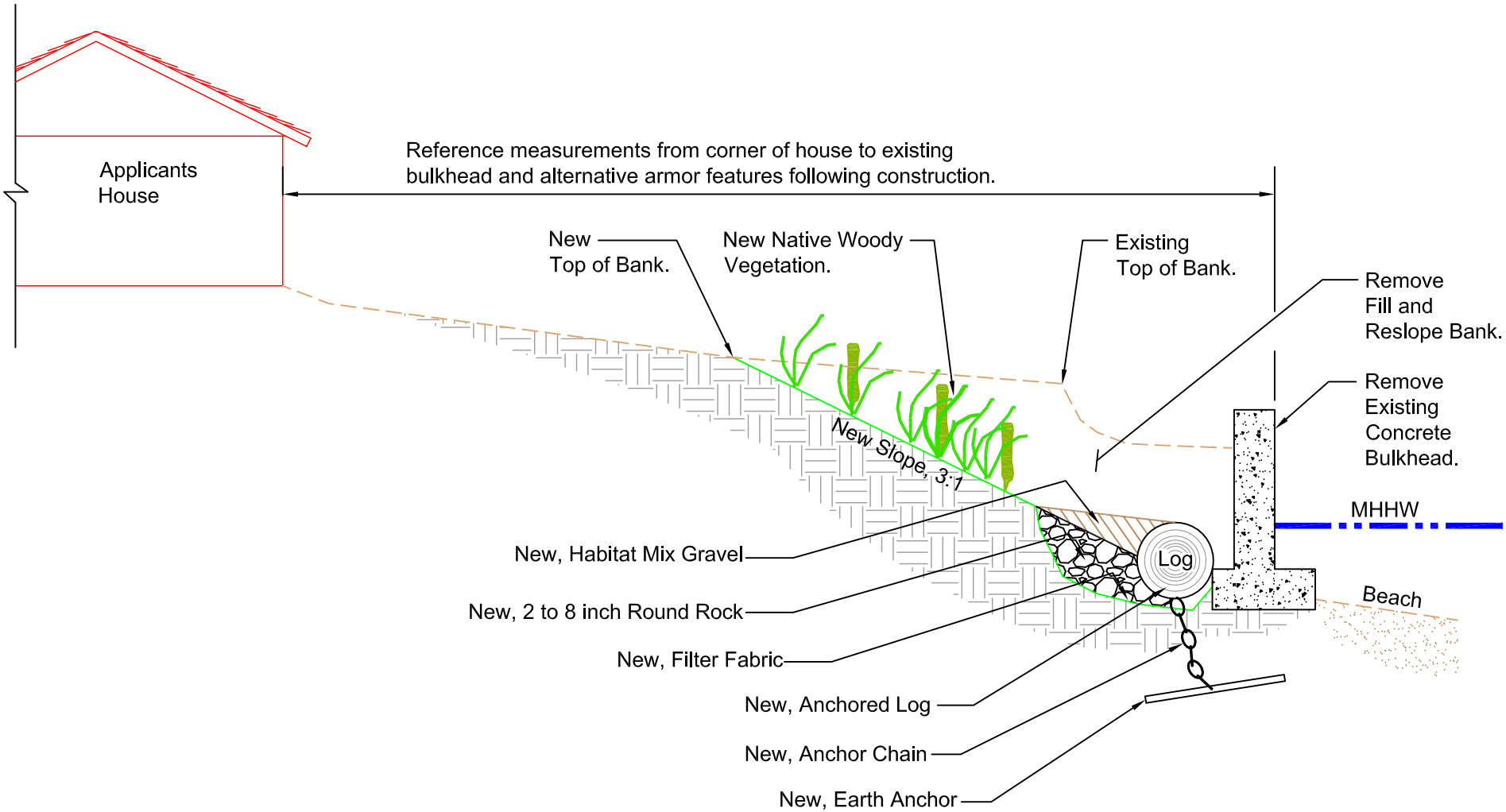
Reference points are measured from multiple locations to ensure correct alignment.



Note: bulkhead alignment reference marking should follow guidance documents and drawings.

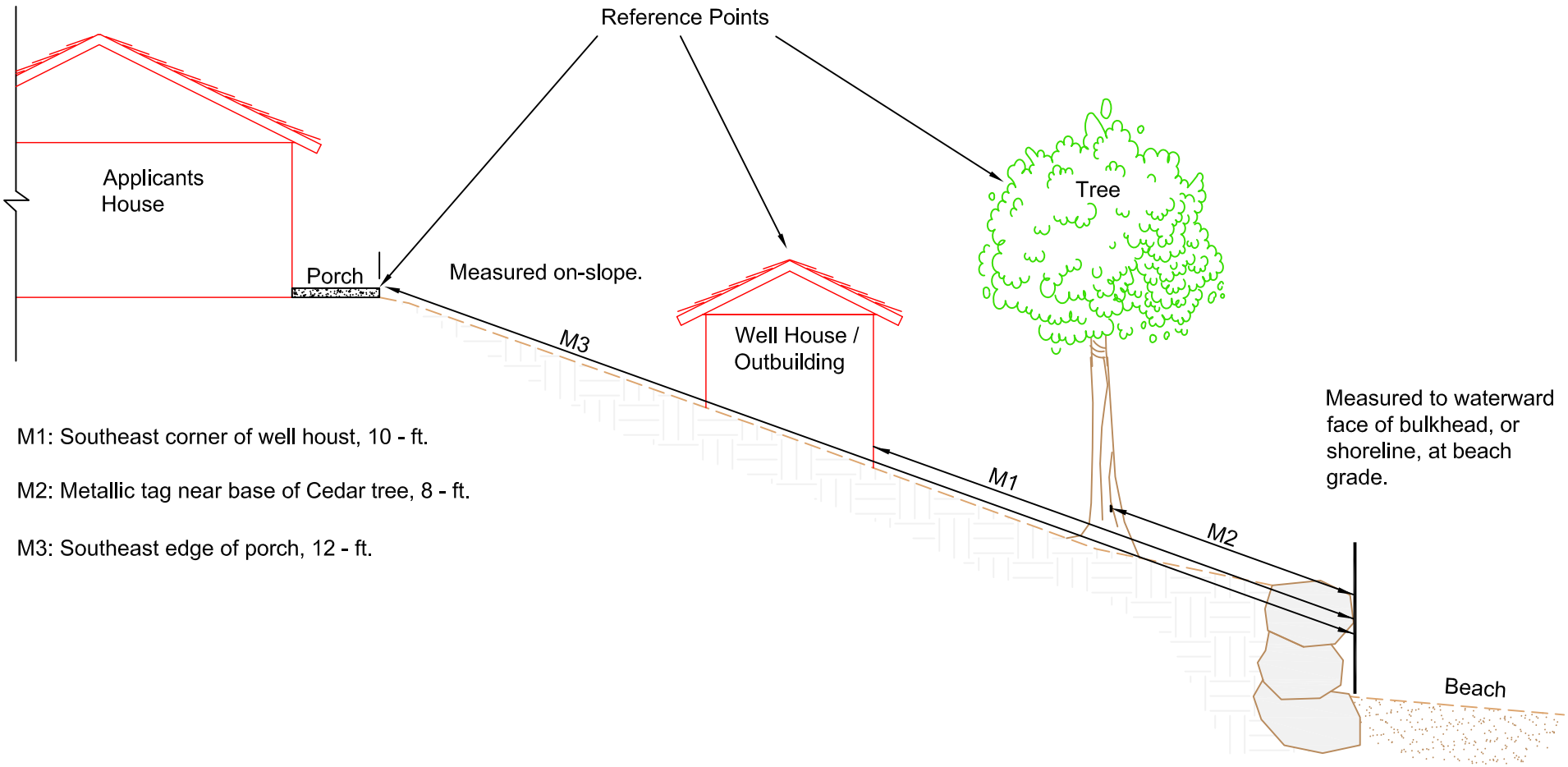
PLAN VIEW

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M-3a** **Plan View** **Softshore Bulkhead Removal Detail**	Date: 12 - 1 - 14 Sheet: 1 of 1



Section A - A

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M - 3b** **Section A - A** **Softshore Detail Bulkhead Removal**	Date: 12 - 1 - 14 Sheet: 1 of 1



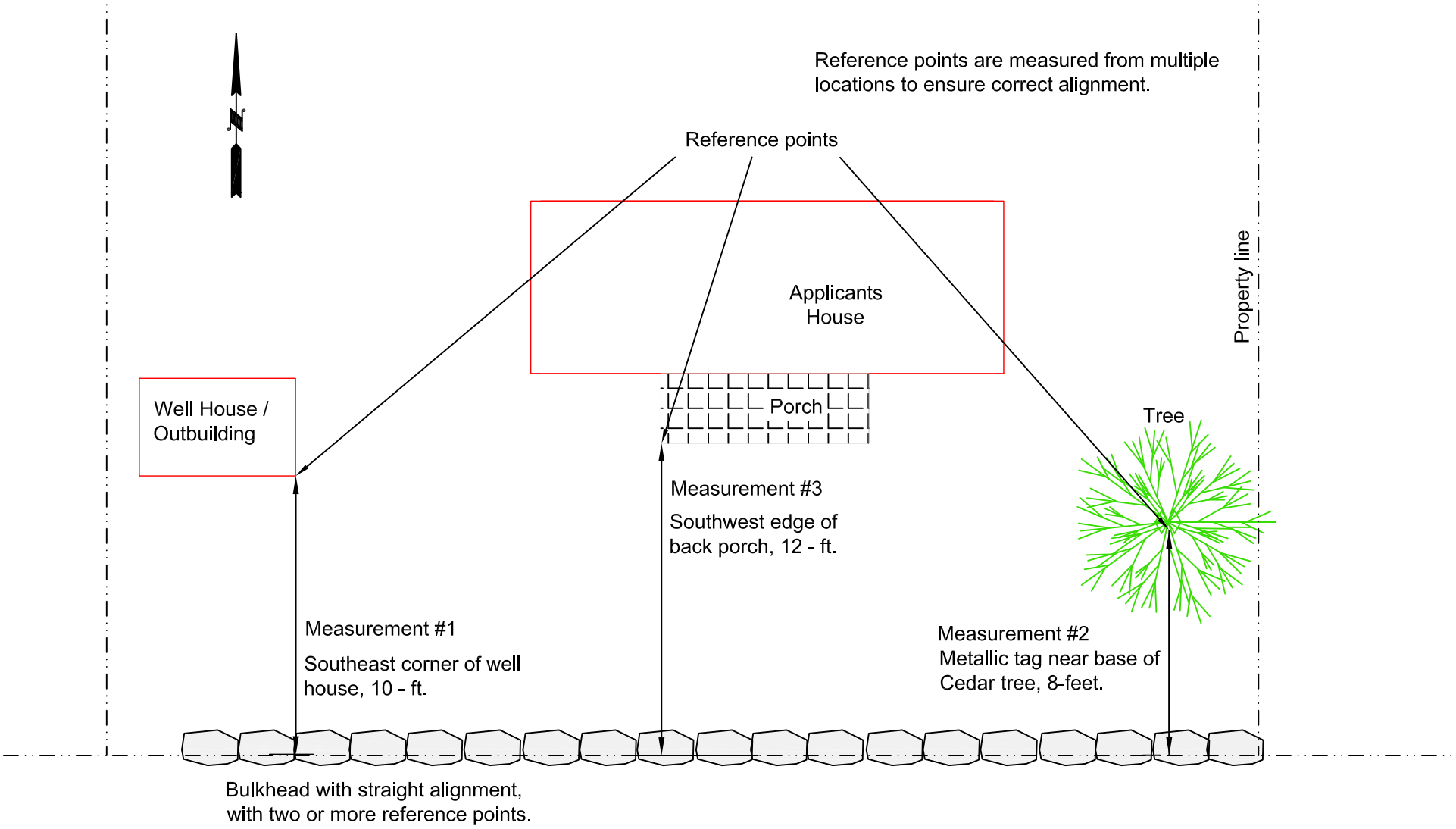
M1: Southeast corner of well houst, 10 - ft.

M2: Metallic tag near base of Cedar tree, 8 - ft.

M3: Southeast edge of porch, 12 - ft.

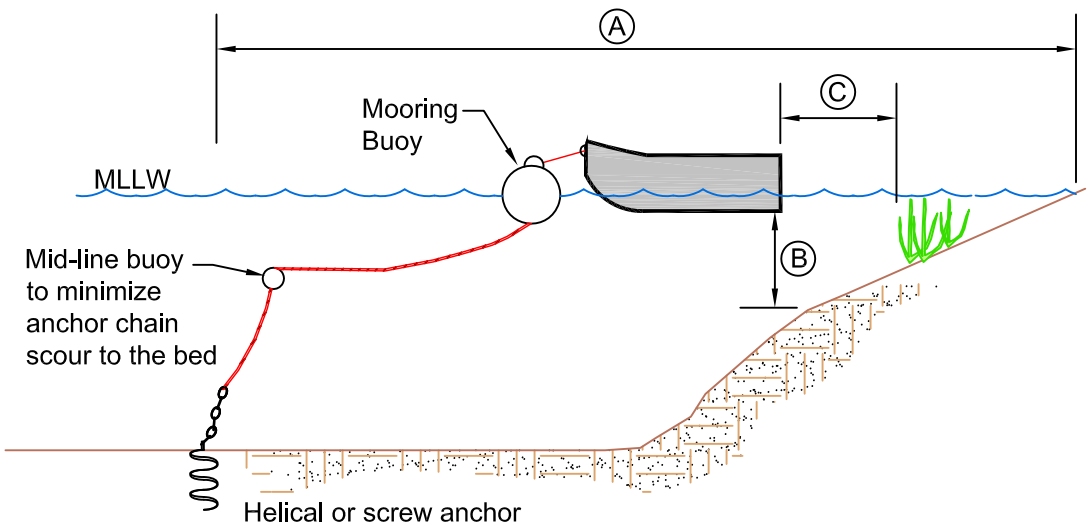
Example Diagram #1

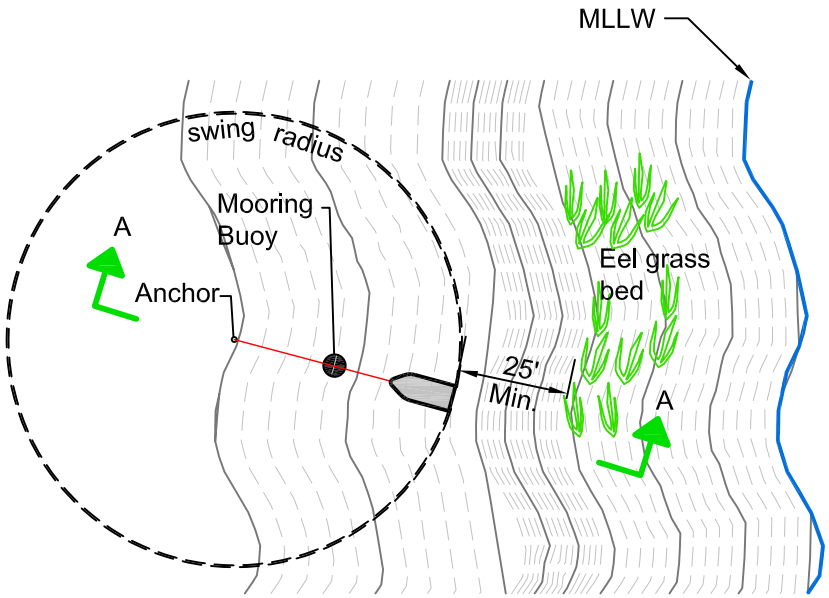
Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M-4** **Softshore Detail - Example Diagram #1**	Date: 12 - 1 - 14 Sheet: 1 of 1



Example Diagram #2

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M-5** **Softshore Detail - Example Diagram #2**	Date: 12 - 1 - 14 Sheet: 1 of 1





Anchor distance (A) from shoreline to anchor shall be sufficient to:

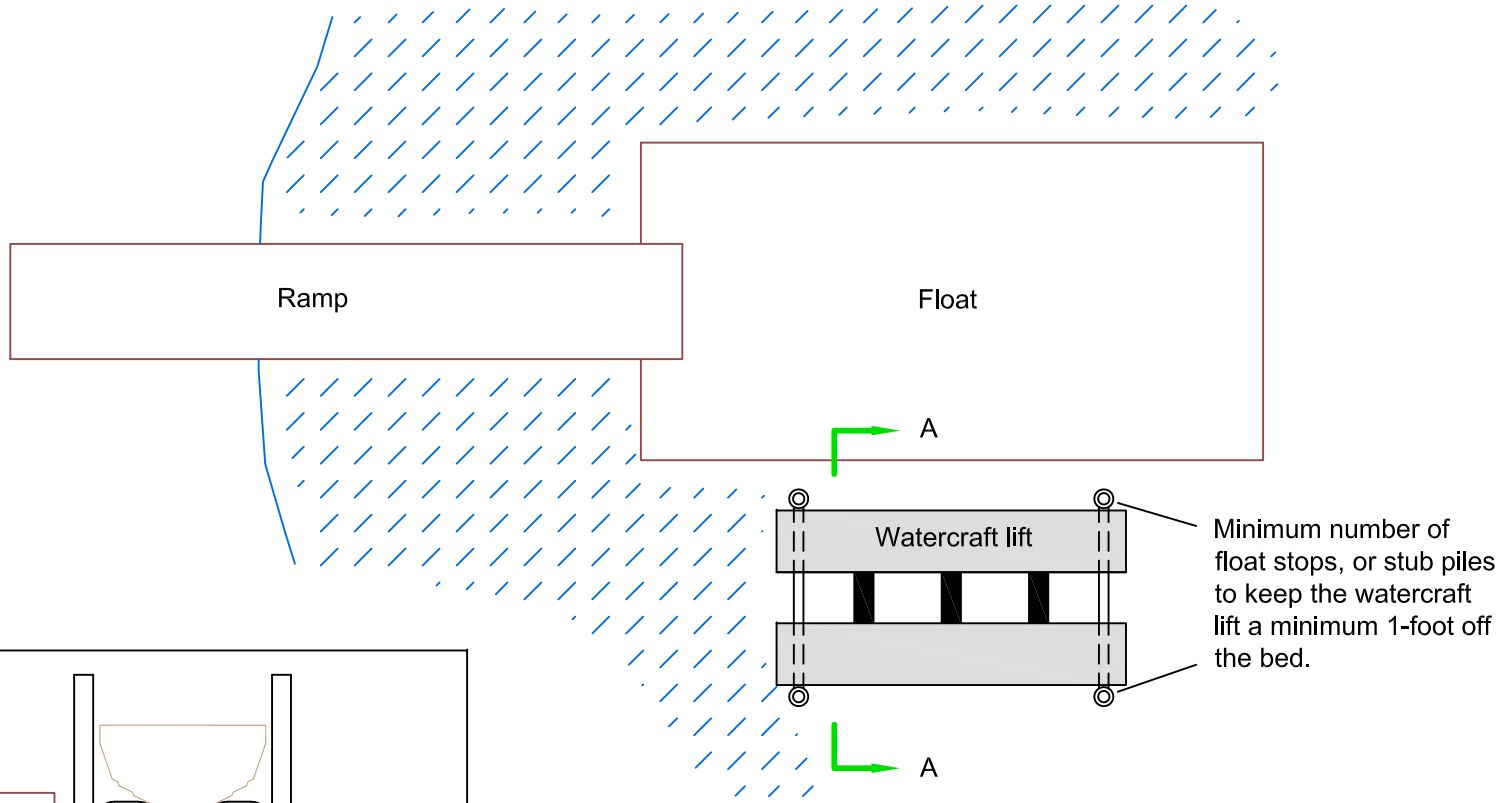
1.) Prevent boat / float grounding at all tides by providing a minimum depth (B) of 1.0 - ft., and

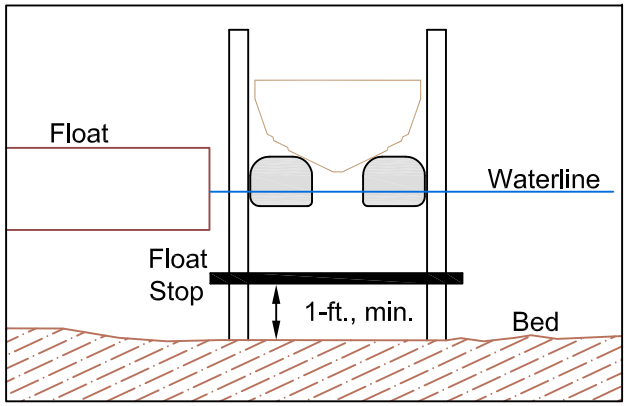
2.) Prevent shading of eel grass by providing 25 - ft. separation (C) between boat / floats and eel grass beds.

Cross Section A-A

Plan View

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M-6** **Marine Buoy Placement**	Date: 12 - 1 - 14 Sheet: 1 of 1





Section A-A

Washington Department of FISH and WILDLIFE	Engineer: Drawn by: K. Corwin Reviewed by: Approved by:	**Example Drawing M-7** **EXAMPLE WATERCRAFT LIFT**	Date: 12 - 1 - 14 Sheet: 1 of 1