

LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE



CIVIL/STRUCTURAL ENGINEER:

REID MIDDLETON
CONTACT: SHANNON KINSELLA, P.E.
728 134TH STREET SW
SUITE 200
EVERETT, WA 98204
(425) 741-3800

**Contour Source: NOAA 2020 USGS CoNED Topobathy DEM:
Puget Sound, WA**

HORIZONTAL DATUM

NAD83

VERTICAL DATUM

APPROX. MLLW (ACCOMPLISHED BY ADDING 1.1' TO
NAVD88 ELEVATIONS -DIFFERENCE BETWEEN TIDAL MLLW
AND NAVD88 FROM PORT TOWNSEND NOAA STATION)

SITE LOCATION

LATITUDE 48° 3' 26.49" N
LONGITUDE 122° 55' 2.14" W
SECTION 34
TOWNSHIP 30 NORTH
RANGE 02 WEST

PURPOSE: REPLACE DETERIORATED BOAT RAMP AND ADD
BOARDING FLOAT

DATUM: MLLW = 0.0'

ADJACENT PROPERTY OWNERS:

1. OWNER
2. OWNER
3. OWNER

PROJECT LOCATION

**PORT OF PORT TOWNSEND
GARDINER BOAT RAMP**

ADDRESS: PORT OF PORT TOWNSEND
2701 JEFFERSON ST
PORT TOWNSEND, WA 98368

Reid Middleton

728 134th Street SW · Suite 200
Everett, Washington 98204
Ph: 425 741-3800

IN: DISCOVERY BAY
AT: GARDINER BOAT RAMP
COUNTY OF: JEFFERSON
APPLICATION BY: PORT OF PORT TOWNSEND
SHEET 1 OF 7 DATE: OCTOBER 2020



PURPOSE: REPLACE DETERIORATED BOAT RAMP AND ADD BOARDING FLOAT

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GARDINER BOAT RAMP

PORT OF PORT TOWNSEND GARDINER BOAT RAMP

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EXISTING BEACH RUBBLE
NOT TO SCALE



EXISTING BOAT RAMP
NOT TO SCALE



EXISTING BOAT RAMP
NOT TO SCALE



TOP OF EXISTING BOAT RAMP
NOT TO SCALE



EXISTING UPLAND PARKING
NOT TO SCALE

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GARDINER BOAT RAMP

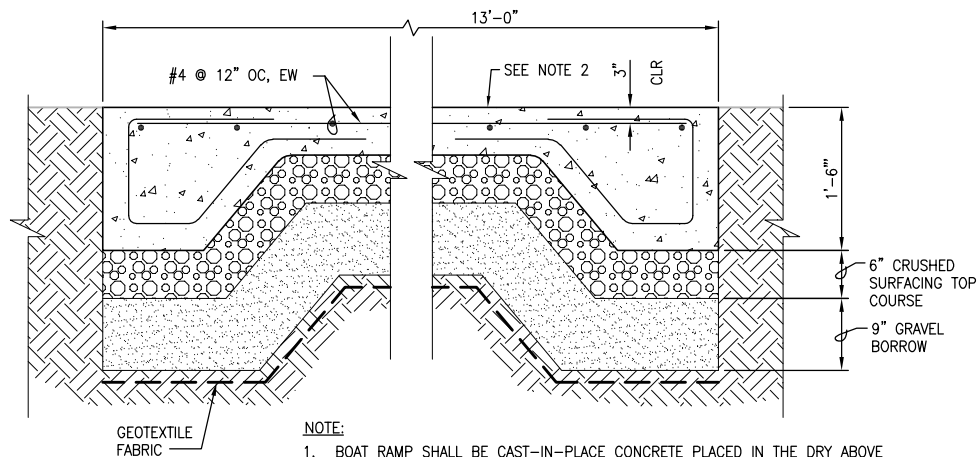
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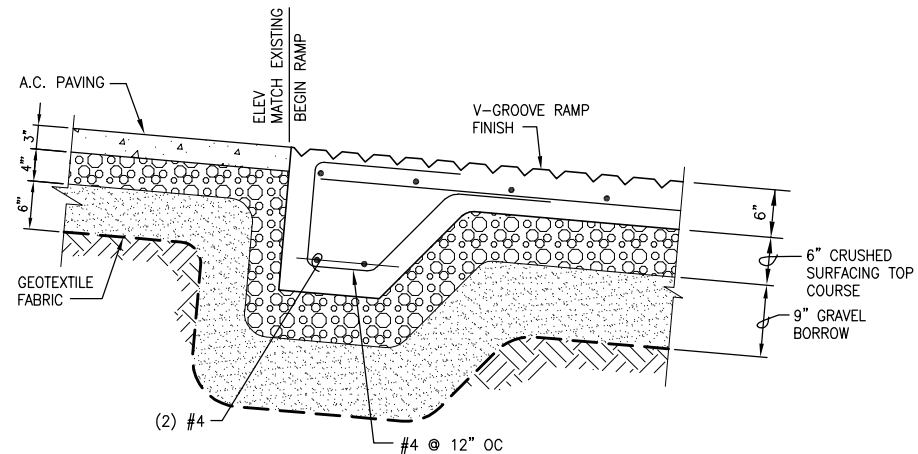
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SHEET 3 OF 7 DATE: OCTOBER 2020



NOTE:

1. BOAT RAMP SHALL BE CAST-IN-PLACE CONCRETE PLACED IN THE DRY ABOVE ELEVATION +4 (MLLW=0 DATUM) AND PRECAST CONCRETE PANELS 6 FEET LONG BY 13 FEET WIDE BELOW ELEVATION +4 (MLLW=0). PRECAST PANELS WILL BE CONNECTED WITH STEEL BAR AND BOLTED PLATE CONNECTIONS

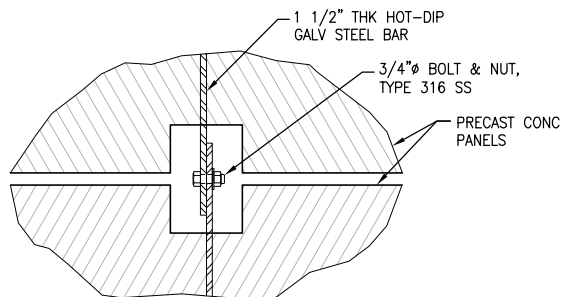
A TYPICAL CONCRETE BOAT RAMP SECTION
SCALE: 1/2"=1'-0"



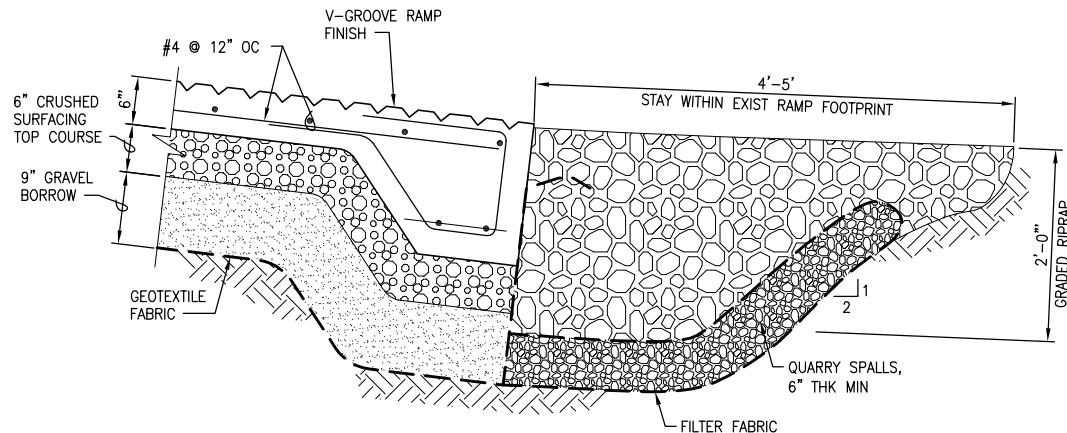
NOTES:

1. FOR V-GROOVE SURFACE, CLEAR COVER MEASURED FROM BOTTOM OF V-GROOVE.
2. V-GROOVE NOT SHOWN FOR CLARITY.

B RAMP BEGIN
SCALE: 1/2"=1'-0"



1 CONCRETE PANEL CONNECTION
SCALE: 1 1/2"=1'-0"



C RAMP END
SCALE: 1/2"=1'-0"

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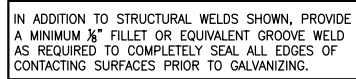
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DATUM: MLLW = 0.0'

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STEEL FRAME FLOAT

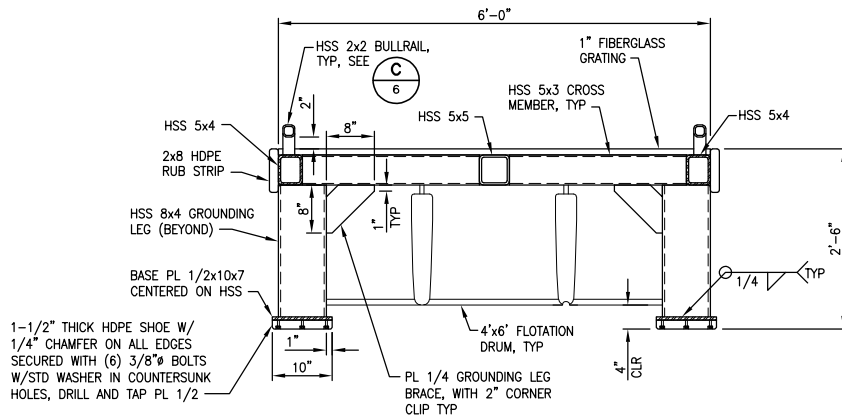
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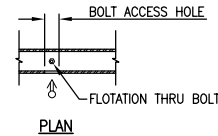
B
5 SECTION - 6'x20' FLOAT WITH 4'x6' FLOTATION TUBS
SCALE: 3/8"=1'-0"

LEGEND

2-3/8" DRILLED (NOT FLAME CUT) BOLT ACCESS OR VENT HOLE CENTERED VERTICALLY IN HSS 5x. PROVIDE MINIMUM 5" AWAY FROM WELDED CONNECTIONS. SMOOTH ROUGH EDGES PRIOR TO GALVANIZING.

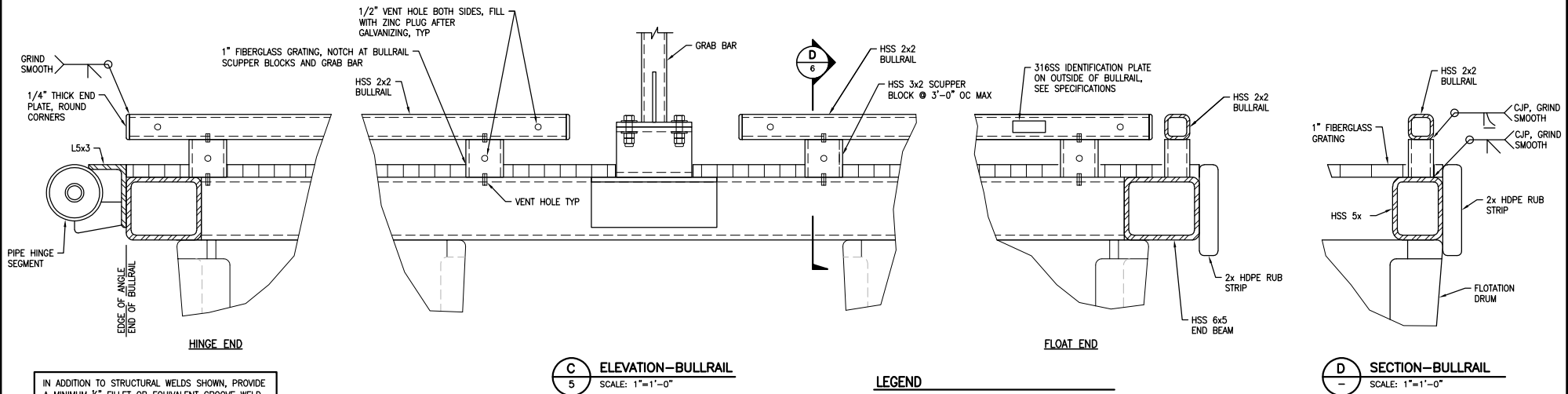
1" VENT HOLE, SEE NOTE 6

3/8" WEEP HOLE, SEE NOTE 5



SHEET NOTES

1. SECURE GRATING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. EACH GRATING PANEL IS TO BE FULLY SUPPORTED ON ALL FOUR EDGES.
2. FLOAT FRAME TO BE HOT DIP GALVANIZED AFTER FABRICATION. CONTRACTOR TO PROVIDE REQUIRED DRAIN HOLES. PROPOSED DRAIN HOLE LOCATIONS ARE SHOWN. SHOW ALL DRAIN HOLE LOCATIONS IN FLOAT SHOP DRAWINGS.
3. FIELD-LEVEL FLOAT WITH COUNTERWEIGHTS. CONTRACTOR TO PROVIDE (6) PL 1/2x4x2'-0" PER FLOAT MODULE. COUNTERWEIGHT ASSEMBLY SHALL BE SECURED WITH FOUR 3/4" THRU BOLTS. PROVIDE RECESS IN RUB STRIP TO ACCOMMODATE THRU BOLT HEAD.
4. MAX 5'-6" LENGTH, PROVIDE 3/4" CHAMFER AT ENDS, 1/2" GAP BETWEEN SEGMENTS, COLOR LIGHT GRAY..
5. PROVIDE 3/8" WEEP HOLES AT THE UNDERSIDE OF EACH END OF EACH HORIZONTAL CROSS-BEAM TO PREVENT MEMBERS FROM HOLDING WATER.
6. PROVIDE 1" VENT HOLES IN SIDES OF HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING, CENTERED IN HSS5x.
7. HINGE PIN TO BE SECURED WITH A DOUBLE-JAM NUT (DO NOT OVER-TIGHTEN, PREVENT GALLING), AND SHALL BE FREE TO ROTATE AFTER INSTALLATION. THE END OF THE HINGE PIN IS TO HAVE A 30 DEGREE BEVEL, WITH A 1/4" DIAMETER ROUNDED END TO FACILITATE INSERTION INTO THE HINGE BUSHINGS. HINGE PIN IS TO HAVE A HOLE AND 1/4" 316SS COTTER PIN EACH END.



LEGEND

1" VENT HOLE, PROVIDE IN HSS MEMBERS INSIDE OF CONNECTING TUBE TO FACILITATE COMPLETE DRAINING DURING HOT DIP GALVANIZING

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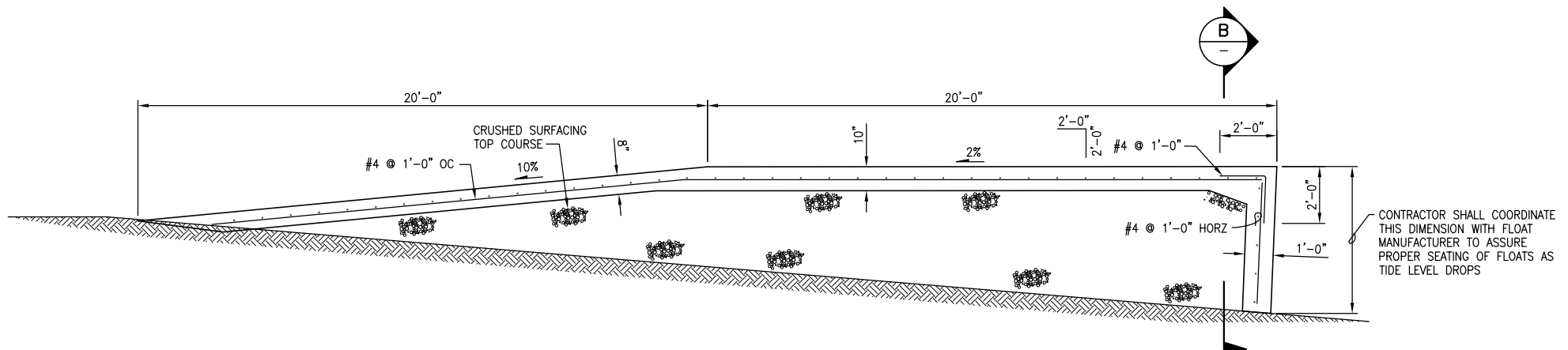
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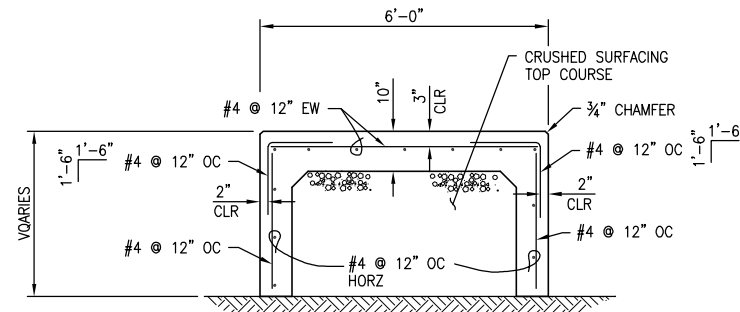
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A SECTION—CONCRETE APPROACH WEDGE
SCALE: $\frac{3}{16}'' = 1'-0''$



B SECTION—CONCRETE APPROACH WEDGE
SCALE: $\frac{1}{4}'' = 1'-0''$

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BOAT RAMP DETAILS

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