US Army Corps
of Engineers
Seattle District

Public Notice of Application for Permit

US Army Corps of Engineers
Regulatory Branch
4735 E. Marginal Way S., Bldg 1202
Seattle, WA 98134-2388
Telephone: (206) 348-3999
ATTN: Danette L. Guy,
Senior Project Manager

Public Notice Date: February 26, 2025
Expiration Date: March 28, 2025

Reference No.: NWS-2025-170
Name: Port of Port Angeles (Seawall Replacement)

Interested parties are hereby notified that an application has been received for a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of 1899, for certain work described below and shown on the enclosed drawings dated April 27, 2023.

The Corps will also review the work in accordance with Section 404 of the Clean Water Act (CWA).

APPLICANT: Port of Port Angeles
Attention: Jesse Waknitz
P.O. Box 1350
Port Angeles, Washington 98362
Telephone: (360) 452-3959

LOCATION: In Port Angeles Harbor, at the Port of Port Angeles log yard, near Marine Drive, at Port Angeles, Clallam County, Washington

WORK: Install a 1.25-inch-thick fiberglass encasement waterward of the existing 335 linear foot sheetpile wall and construct a mechanically stabilized earth (MSE) wall.

PURPOSE: To maintain existing erosion control for the protection of upland operations.

ADDITIONAL INFORMATION: The existing Cofferdam Dock Facility is composed of a steel sheet pile wall running approximately 335 linear ft along the shoreline. This sheet pile wall is tied back to a second, parallel sheet pile wall located approximately 30 ft (ft) landward. These sheet pile walls are connected by tie rods attached to a double channel waler beam above the high tide line and backfill between these walls consists of loose dirt fill and wood debris. Work would include excavating up to 16,000 square feet of existing backfill material to a depth of 12 ft below ground surface. The removed material would be stockpiled onsite for future use or transported offsite to an approved upland disposal facility if it is unsuitable for reuse. Then after removing the waler beam and installing the fiberglass encasement using land based

excavators, the gap between the encasement and the existing sheet pile wall would be dewatered allowing divers to connect the structures using grout. After it is secured, the replacement waler beams and end caps would be installed, with backfill material placed to an elevation of +9 ft mean lower low water and the MSE wall constructed. The MSE wall would be constructed using layers of compacted gravel with sheets of geogrid reinforcement, quarry spalls, crushed surface base coarse rock, ecology blocks, and a 1-foot-wide section of free draining rock to allow for stormwater infiltration and drainage.

Additional work includes installing a three-stage biofiltration facility to treat stormwater from the upland structures and raise the surface elevation and repave 14.4 acres of the facility to improve operational efficiency and stormwater conveyance.

Copies of this public notice which have been mailed or otherwise physically distributed feature project drawings in black and white. The electronic version features those drawings in color, which we think more accurately communicates the scope of project impacts. To access the electronic version of this public notice, go to the Seattle District's web page at http://www.nws.usace.army.mil/ and under the heading Open Public Comment Periods select Regulatory Public Notices. Recently issued public notices are listed in chronological order of the date of issuance. Select and view the listing for this project.

The location of the high tide line shown on the project drawings have not yet been verified by the U.S. Army Corps of Engineers (Corps). If the Corps determines the boundaries of the wetland/waters are substantially inaccurate a new public notice may be published.

MITIGATION: No mitigation is proposed.

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of the ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat. The U.S. Department of Transportation Maritime Administration (MARAD), as the lead agency for ESA consultation, consulted with the NMFS and the USFWS as required under Section 7 of the ESA. They have determined that the project is not likely to adversely affect USFWS ESA proposed and/or listed species and their designated critical habitat and issued a Letter of Concurrence on January 22, 2024. They have also determined the project is not likely to jeopardize the continued existence of NMFS ESA proposed and/or listed species and their designated critical habitat. A Biological Opinion was issued on March 20, 2024.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area. The MARAD, as the lead agency for a determination regarding EFH, consulted with the National Marine Fisheries Services. They have determined that the project has the potential to adversely affect EFH species.

CULTURAL RESOURCES: The MARAD, as the lead agency for determining compliance with Section 106 of the National Historic Preservation Act and consulted with the State Historic Preservation Officer and Native American Nations as appropriate.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. The Washington Department of Ecology has or will evaluate the proposed project in accordance with Section 401 of the Clean Water Act and for consistency with the Coastal Zone Management Act.

The U.S. Army Corps of Engineers is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether authorizing the work would not be contrary to the public interest. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. All e-mail comments should be sent to danette.l.guy@usace.army.mil. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commenter's name, address, and phone number. All comments received will become part of the administrative record and are subject to public release under the Freedom of Information Act including any personally identifiable information such as names, phone numbers, and addresses. All comments whether conventional mail or e-

mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

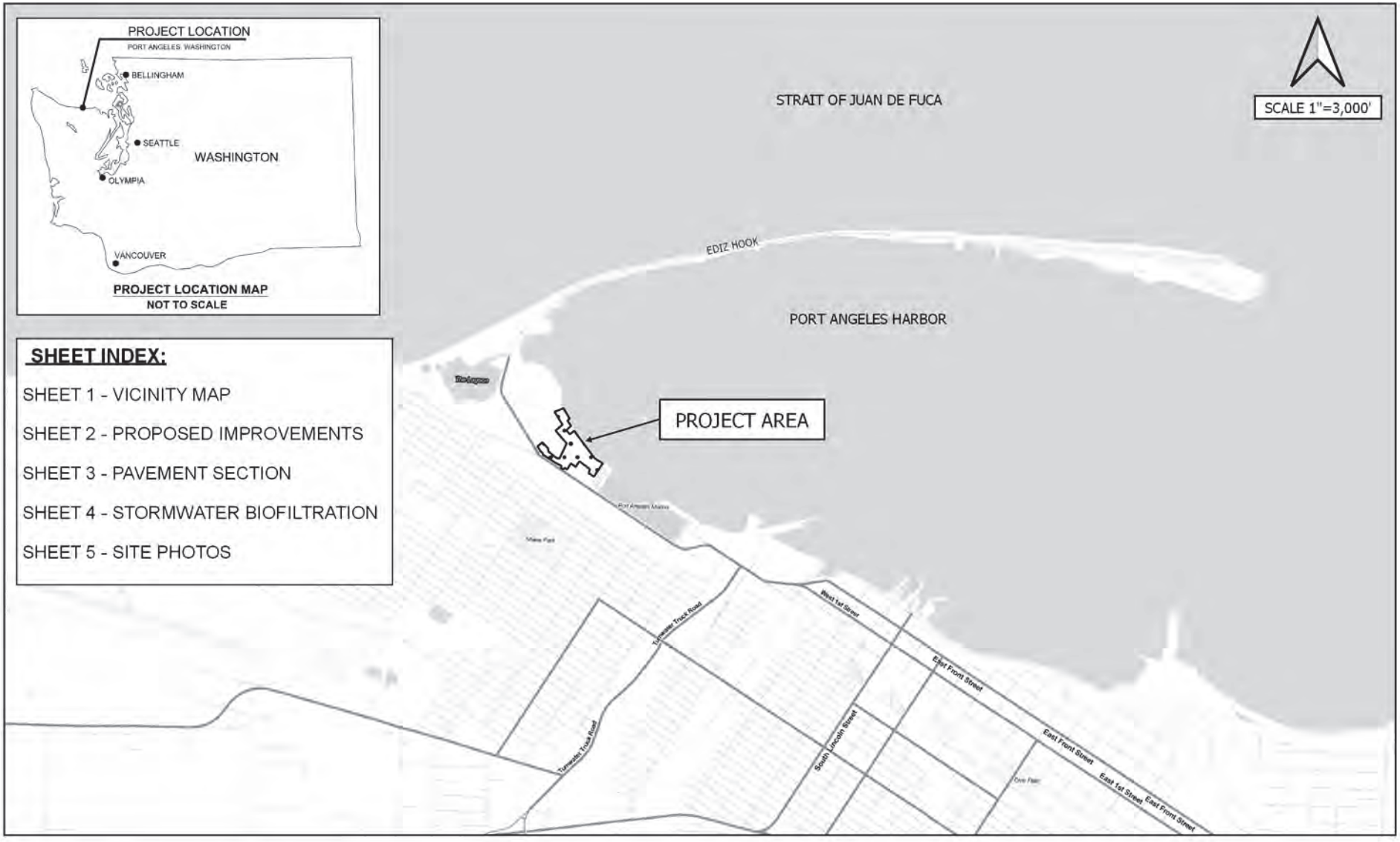
You may also now submit project specific comments to the Corps through the new Regulatory Request System (RRS) through this link: https://rrs.usace.army.mil/rrs ; Click Public Notices and filter to Washington State to see all current Seattle District Public Notices, including this notice. You may submit your comments directly through this portal.

Conventional mail comments should be sent to:
U.S. Army Corps of Engineers, Regulatory Branch, Attention: Danette L. Guy,
4735 E. Marginal Way S, Bldg 1202, Seattle, Washington, 98134-2388.

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments:

Port Angeles, Port of; NWS-2025-170.

Encl: Figures (19 OF PAGES)



IN: ADJACENT TO PORT ANGELES HARBOR

AT: PORT OF PORT ANGELES LOG YARD, 1301 MARINE DRIVE

CITY: PORT ANGELES **COUNTY:** CLALLAM

STATE: WASHINGTON

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO:

PURPOSE: IMPROVE CARGO HANDLING INFRASTRUCTURE AT IHTF THAT INCLUDES MAINTENANCE TO COFFERDAM DOCK, ASPHALT PAVING OF 14.4-ACRES AND CONSTRUCTION OF STORMWATER TREATMENT SYSTEM

SECTION: NW 4 **LAT:** 48.130634 N

TOWNSHIP: 30 N **LONG:** -123.460395 W

RANGE: 6 W **DATUM:** MLLW = 0.0'

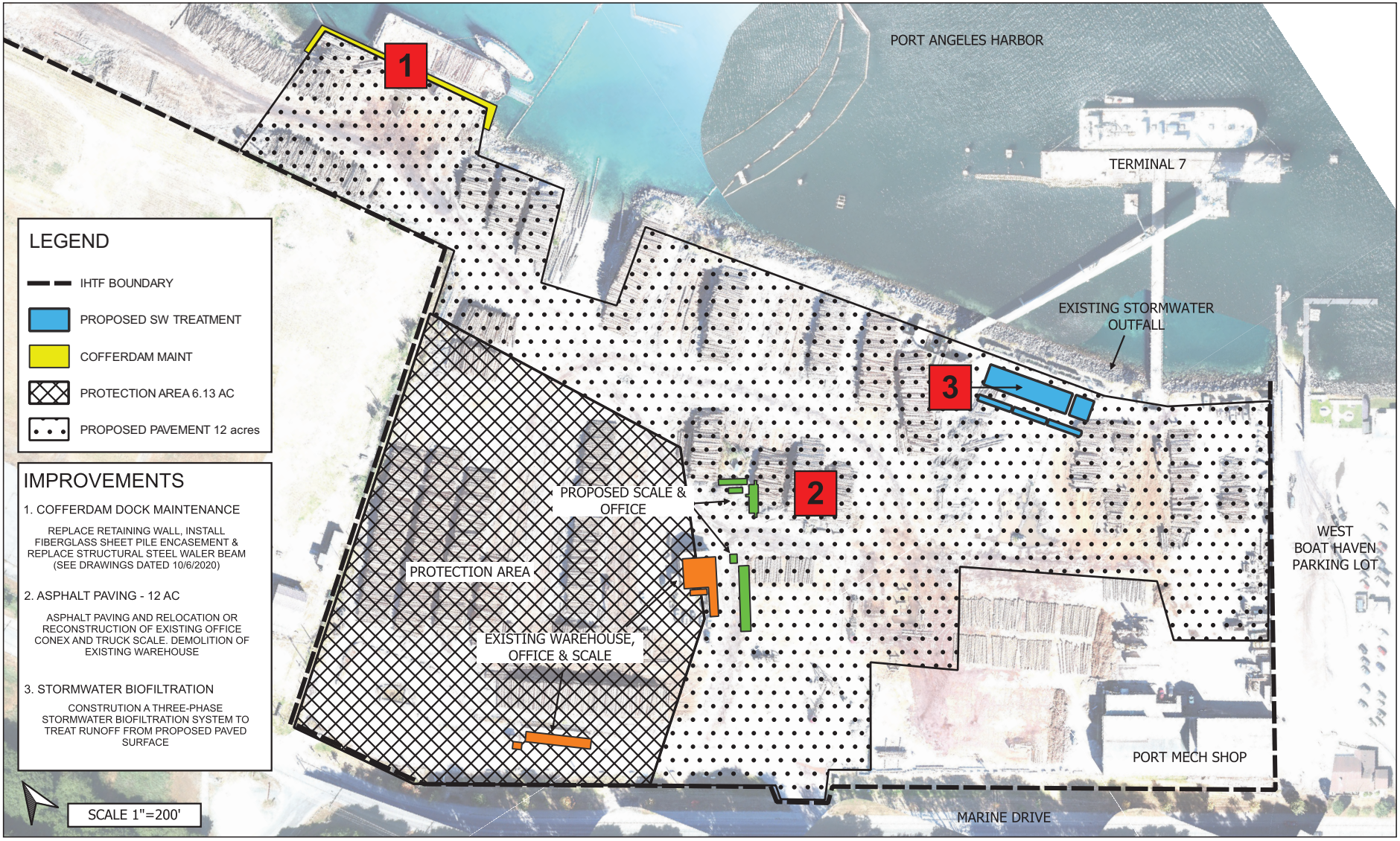
INTERMODAL HANDLING AND TRANSFER FACILITY (IHTF) IMPROVEMENTS PROJECT

VICINITY MAP

DATE: 4/27/2023

SHEET: 01 OF 05

NWS-2025-170



IN: ADJACENT TO PORT ANGELES HARBOR

AT: PORT OF PORT ANGELES LOG YARD, 1301 MARINE DRIVE

CITY: PORT ANGELES **COUNTY:** CLALLAM

STATE: WASHINGTON

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO:

PURPOSE: IMPROVE CARGO HANDLING INFRASTRUCTURE AT IHTF THAT INCLUDES MAINTENANCE TO COFFERDAM DOCK, ASPHALT PAVING OF 12-ACRES AND CONSTRUCTION OF STORMWATER TREATMENT SYSTEM

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RANGE: 6 W **DATUM:** MLLW = 0.0'

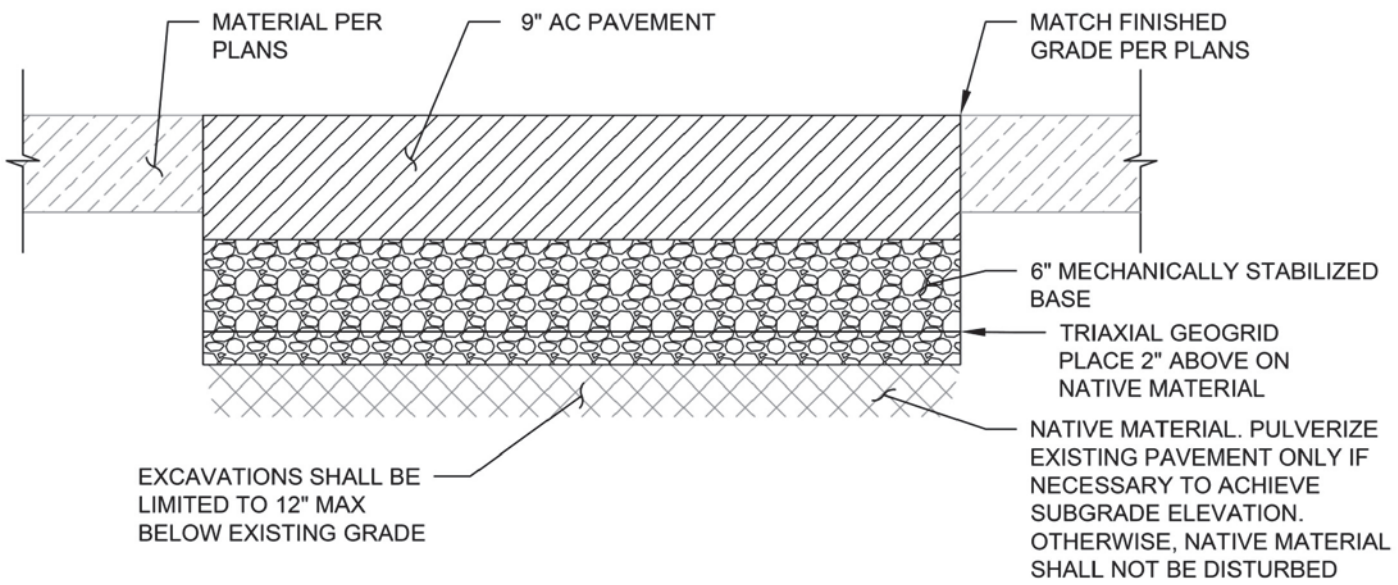
INTERMODAL HANDLING AND TRANSFER FACILITY (IHTF) IMPROVEMENTS PROJECT

PROPOSED IMPROVEMENTS

DATE: 11/27/2024
REVISED 1/28/2025

SHEET: 02 OF 05

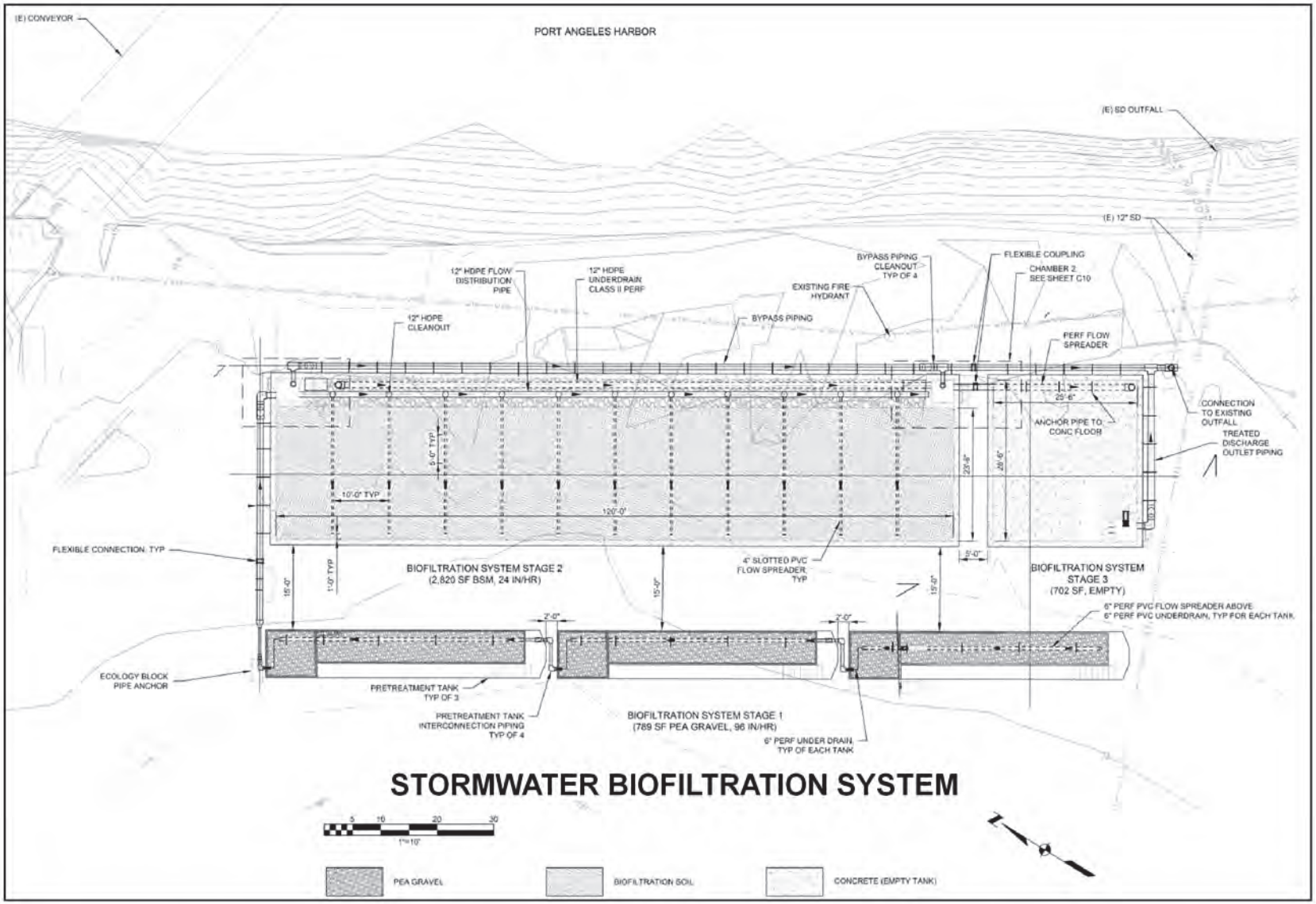
NWS-2025-170



TYPICAL PAVEMENT SECTION - NTS

IN: ADJACENT TO PORT ANGELES HARBOR **AT:** PORT OF PORT ANGELES LOG YARD, 1301 MARINE DRIVE **CITY:** PORT ANGELES **COUNTY:** CLALLAM **STATE:** WASHINGTON **APPLICATION BY:** PORT OF PORT ANGELES **REFERENCE NO:**	**PURPOSE:** IMPROVE CARGO HANDLING INFRASTRUCTURE AT IHTF THAT INCLUDES MAINTENANCE TO COFFERDAM DOCK, ASPHALT PAVING OF 14.4-ACRES AND CONSTRUCTION OF STORMWATER TREATMENT SYSTEM **SECTION:** NW 4 **LAT:** 48.130634 N **TOWNSHIP:** 30 N **LONG:** -123.460395 W **RANGE:** 6 W **DATUM:** MLLW = 0.0'	**INTERMODAL HANDLING AND TRANSFER FACILITY (IHTF) IMPROVEMENTS PROJECT** **PAVEMENT SECTION** **DATE:** 4/27/2023 **SHEET:** 03 OF 05

NWS-2025-170



STORMWATER BIOFILTRATION SYSTEM

IN: ADJACENT TO PORT ANGELES HARBOR

AT: PORT OF PORT ANGELES LOG YARD, 1301 MARINE DRIVE

CITY: PORT ANGELES **COUNTY:** CLALLAM

STATE: WASHINGTON

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO:

PURPOSE: IMPROVE CARGO HANDLING INFRASTRUCTURE AT IHTF THAT INCLUDES MAINTENANCE TO COFFERDAM DOCK, ASPHALT PAVING OF 14.4-ACRES AND CONSTRUCTION OF STORMWATER TREATMENT SYSTEM

SECTION: NW 4 **LAT:** 48.130634 N

TOWNSHIP: 30 N **LONG:** -123.460395 W

RANGE: 6 W **DATUM:** MLLW = 0.0'

INTERMODAL HANDLING AND TRANSFER FACILITY (IHTF) IMPROVEMENTS PROJECT

STORMWATER BIOFILTRATION SYSTEM

DATE: 4/27/2023

SHEET: 04 OF 05

NWS-2025-170

PHOTO1 - LOOKING WEST AT PROJECT AREA


PHOTO 4 - EXISTING SITE SURFACE


PHOTO 5 - EXISTING SITE SURFACE

PHOTO 2 - LOOKING SOUTH AT PROJECT AREA


PHOTO 3 - LOOKING SOUTH AT COFFER DAM DOCK

IN: ADJACENT TO PORT ANGELES HARBOR

AT: PORT OF PORT ANGELES LOG YARD, 1301 MARINE DRIVE

CITY: PORT ANGELES **COUNTY:** CLALLAM

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INTERMODAL HANDLING AND TRANSFER FACILITY (IHTF) IMPROVEMENTS PROJECT

SITE PHOTOS

DATE: 4/27/2023

SHEET: 05 OF 05

IN: STRAIGHT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLAM

STATE: WASHINGTON **PARCEL:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

PURPOSE: PROVIDE MAINTENANCE AND REPAIRS TO EXISTING COFFFERDAM STRUCTURE AT THE PORT OF PORT ANGELES LOG YARD FACILITY

SECTION: S4 **LATITUDE:** 48° 7' 42.49" N

TOWNSHIP: 30N **LONGITUDE:** 123° 28' 26.4" W

RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

VICINITY MAP

DATE: 10/06/2020

SHEET: 1 of 14

I:\GIS\Projects\KPFF-POPA Cofferdam\MXD\Cofferdam Loading Structure Improvement Project\Sheet 1 of 11 - Vicinity Map.mxd
4/7/2020

NWS-2025-170

BMPs FOR IMPLEMENTATION DURING CONSTRUCTION

CONTRACTOR SHALL PROTECT-IN-PLACE ALL STRUCTURES, UTILITIES AND OBJECTS NOT IDENTIFIED AS BEING DEMOLISHED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING DEMOLISHED SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

CONTRACTOR SHALL IMPLEMENT THE FOLLOWING BMPS AND COMPLY WITH ALL PERMIT CONDITIONS PRIOR TO CONSTRUCTION.

1. ALL EQUIPMENT THAT WILL OPERATE OVERWATER WILL BE CLEANED OF ACCUMULATED GREASE, OIL, OR MUD. ALL LEAKS WILL BE REPAIRED PRIOR TO ARRIVING ON-SITE. EQUIPMENT WILL BE INSPECTED DAILY FOR LEAKS, ACCUMULATIONS OF GREASE, AND THE LIKE, AND ANY IDENTIFIED PROBLEMS WILL BE FIXED BEFORE OPERATING OVER WATER.
2. CONTRACTOR WILL HAVE EMERGENCY SPILL EQUIPMENT AVAILABLE WHENEVER WORKING IN OR NEAR THE WATER.
3. CONTRACTOR SHALL IMPLEMENT ALL BMPS NECESSARY TO PREVENT WORK MATERIALS OR DEBRIS FROM ENTERING THE WATER.
4. ANY MATERIALS DROPPED INTO THE WATER WOULD IMMEDIATELY BE PICKED UP BY THE CONTRACTOR.
5. SURFACE PREPARATION AREA WILL BE CONTAINED TO PREVENT DUST AND ABRASIVE MATERIAL FROM ENTERING THE SURROUNDING ENVIRONMENT.

SURVEY CONTROL

EXISTING CONDITIONS SURVEY PROVIDED BY ZENOVIC AND ASSOCIATES DATED DECEMBER 19TH, 2018.

HORIZONTAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1983 (91 ADJUSTMENT)

VERTICAL DATUM IS MLLW = 0 (NAVD88: +0.42)

HIGH TIDE LINE:

FOR THE PURPOSE OF THIS PROJECT, THE HTL IS DEFINED AS THE HIGHEST ASTRONOMICAL TIDE (HAT) WHICH IS 9.06 FT MLLW (NOAA STATION #9444090).

MEAN HIGH WATER (MHW) = 6.51' (NAVD88; +0.42)

ABBREVIATIONS

ANCH	ANCHOR
ARCH	ARCHITECTURAL
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
CAP	CAPACITY
CIP	CAST IN PLACE
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CY	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DOE	DEPARTMENT OF ECOLOGY
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELECT	ELECTRICAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FT	FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GOVT	GOVERNMENT
GR	GRADE
HAT	HIGHEST ASTRONOMICAL TIDE
HORIZ	HORIZONTAL
HP	HIGH POINT
HTL	HIGH TIDE LINE
IBC	INTERNATIONAL BUILDING CODE
IE	INVERT ELEVATION
IN	INCH
INFO	INFORMATION
ISGP	INDUSTRIAL STORMWATER GENERAL PERMIT
JST	JOIST
JT	JOINT
K	KIP (1,000 LBS.)
KSF	KIPS PER SQUARE FOOT
LF	LINEAL FOOT
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NTS	NOT TO SCALE
OC	ON CENTER
PL	PROPERTY LINE
PT	POINT
R	RADIUS
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
STD	STANDARD
STRUCT	STRUCTURAL
SWMMWW	STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
TBD	TO BE DETERMINED
THRU	THROUGH
TYP	TYPICAL
VERT	VERTICAL
WL	WATER LINE
WP	WORK POINT

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

PURPOSE: PROVIDE MAINTENANCE AND REPAIRS TO EXISTING COFFERDAM STRUCTURE AT THE PORT OF PORT ANGELES LOG YARD FACILITY

SECTION: NW 4 **LAT:** 48° 7' 42.49" N

TOWNSHIP: 31N **LONG:** 123° 28' 26.4" W

RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

SHEET INDEX, GENERAL NOTES, AND ABBREVIATIONS

DATE: 10/6/2020

SHEET: 02 OF 14

Plotted: Oct 04, 2020 - 4:44pm jhollenbach Layout: 1800020_G1.0
M:\2018\1800020 POPA Conditions Assessment\Drawings\Exhibits\2020-10-02 JARPA - 8.5x11\02_GenNotes&Abbrev.dwg

EXISTING SITE PLAN

SCALE: 1" = 60'

0 30 60 90

SCALE IN FEET

SURVEY NOTES:

1. BASIS OF BEARINGS: NAD 83 (1991 ADJUSTMENT) PER MEASUREMENTS MADE TO MONUMENTS SHOWN ON VOLUME 34 OF SURVEYS, PAGE 22, RECORDS OF CLALLAM COUNTY, WASHINGTON.
2. VERTICAL DATUM: MLLW, BASED ON THE ABOVE CITED MEASUREMENTS AND CONVERTED FROM NAVD 88 USING THE TIDAL DATUM FOR PORT ANGELES (STATION 9444090) AS PROVIDED AT "WWW.TIDESANDCURRENTS.NOAA.GOV". MLLW ELEVATION AT PORT ANGELES (STATION 9444090) = −0.42 FEET (NAVD 88).
3. TIDE LEVELS:
   A. HAT 9.06'
   B. MHHW 7.06'
   C. MHW 6.51'
   D. MLLW 0.00'
4. THE SUBJECT LANDS ARE USED AS A LOG PROCESSING AND STORAGE YARD. CONDITIONS AND GRADES ARE SUBJECT TO FREQUENT CHANGES.
5. SURVEY SHOWN PERFORMED BY ZENOVIC AND ASSOCIATES IN DECEMBER 2018.
6. BATHYMETRY SHOWN PERFORMED BY SUNCHASERS IN MAY 2010.
7. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVED FIELD EVIDENCE, CITY OF PORT ANGELES GIS MAPPING, AND DRAWINGS PROVIDED BY THE PORT OF PORT ANGELES. ADDITIONAL UTILITY ROUTES AND ALIGNMENTS MAY EXIST. ZENOVIC AND ASSOCIATES IS NOT TO BE HELD LIABLE FOR THE ACCURACY AND/OR THE COMPLETENESS OF THE UNDERGROUND UTILITIES SHOWN HEREON.
8. GEOTECHNICAL TEST PITS WERE DUG IN 2019 AS PART OF PROJECT DESIGN. THE TEST PITS WERE OBSERVED BY AN ARCHAEOLOGIST; NO PRECONTACT ARCHEOLOGICAL MATERIALS WERE DISCOVERED.

LEGEND:

- GRADE CONTOUR
- STORM DRAIN
- FENCE
- PLUGGED CATCH BASIN
- TEST PIT

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

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PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

EXISTING SITE PLAN

DATE: 10/6/2020

SHEET: 03 OF 14

Plotted: Oct 04, 2020 – 4:47pm jhollenbach Layout: G2.0
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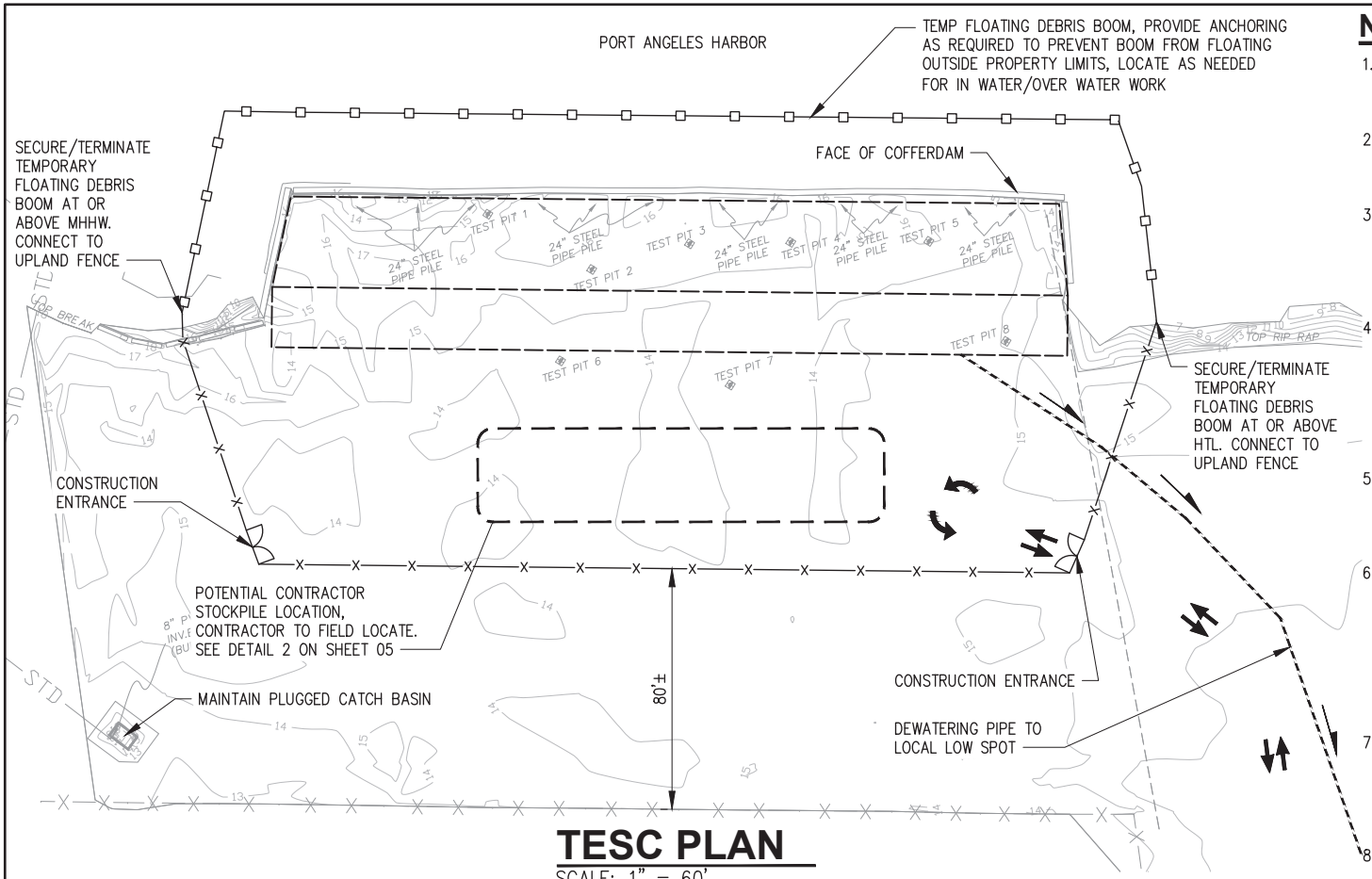
NWS-2025-170



TESC PLAN

SCALE: 1" = 60'

NOTES:

1. CONTRACTOR TO MAINTAIN PLUGGED CATCH BASINS, NOTE THAT NO STORM DRAINAGE FROM WITHIN PROJECT LIMITS SHALL DRAIN TO THE PORT DRAINAGE SYSTEM.
2. THE CONTRACTOR SHALL COMPLY WITH, MAINTAIN, AND MODIFY AS NEEDED THE APPROVED CONSTRUCTION SWPPP IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE IMPLEMENTATION OF THESE TESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
4. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS ANTICIPATED FOR SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DOES NOT LEAVE THE SITE.
5. ON-SITE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF WORK AND SHALL BE MAINTAINED DURING AND AFTER EXCAVATION AND GRADING OPERATIONS TO THE APPROVAL OF THE PORT.
6. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION. DAILY INSPECTION REPORTS MUST BE REVIEWED BY THE CONTRACTOR, SIGNED AND MADE AVAILABLE TO THE PORT, CITY AND ANY OTHER ENVIRONMENTAL AUTHORITIES AT ALL TIMES. A COPY OF ALL INSPECTION RECORDS SHALL BE KEPT ON SITE.
7. THE TEMPORARY FLOATING DEBRIS BOOM SHALL BE INSTALLED AT THE START OF WORK AND MAINTAINED, UPGRADED, REPAIRED OR REPLACED THE ENTIRE CONSTRUCTION PERIOD UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED.
8. CONTRACTOR SHALL PROVIDE ALL PUMPS, TANKS, SHORING, LABOR, AND EQUIPMENT NECESSARY TO ADEQUATELY DEWATER AND STABILIZE EXCAVATIONS SEE GEOTECHNICAL REPORT FOR ANTICIPATED GROUNDWATER ELEVATIONS.

LEGEND:

- TEMPORARY FLOATING DEBRIS BOOM (1/05)
- TEMPORARY CONSTRUCTION FENCE (3/05)
- CONSTRUCTION ENTRANCE
- STRUCTURAL WORK LIMITS
- STOCKPILE AREA BOUNDARY
- DEWATERING PIPE
- VEHICLE ROUTING

0 30 60 90

SCALE IN FEET

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

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PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

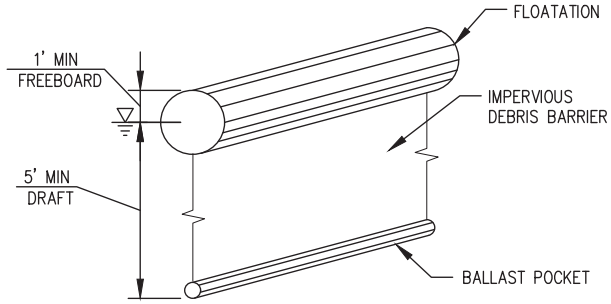
TESC PLAN

DATE: 10/6/2020

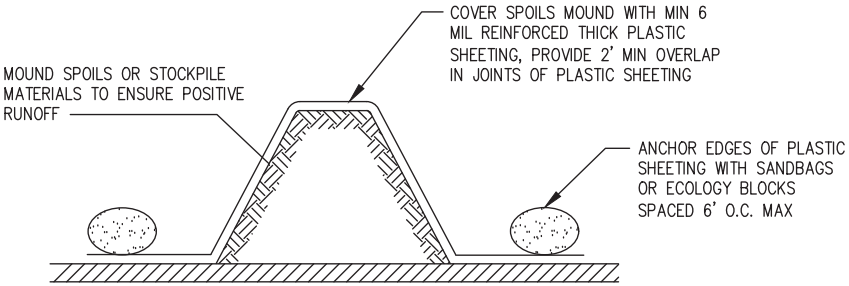
SHEET: 04 OF 14

Plotted: Oct 04, 2020 – 4:48pm jhollenbach Layout: 1800020_G3.0
M:\2018\1800020 POPA Conditions Assessment\Drawings\Exhibits\2020-10-02 JARPA – 8.5x11\04_1800020_TESCPlan.dwg

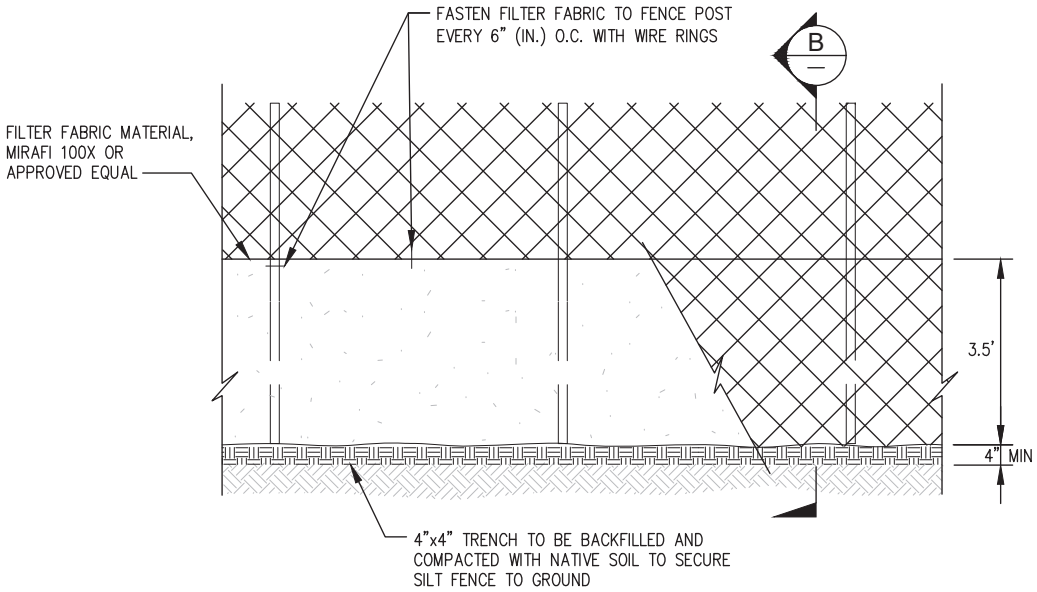
NWS-2025-170

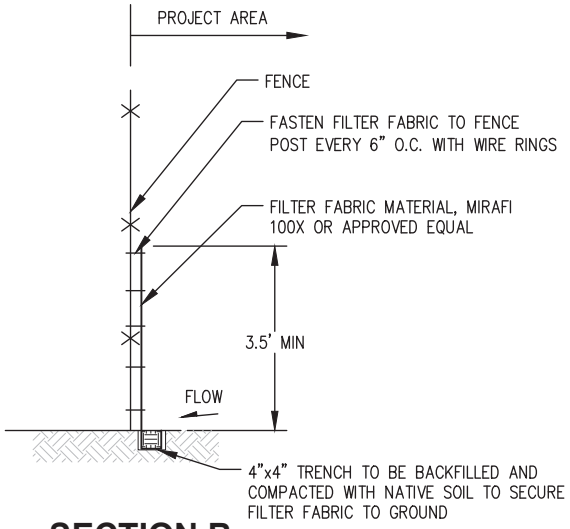


1/04 DEBRIS BOOM
NTS



2/04 STOCKPILE PROTECTION DETAIL
NTS





SECTION B

3/04 CONSTRUCTION FENCE
NTS

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

PURPOSE: PROVIDE MAINTENANCE AND REPAIRS TO EXISTING COFFERDAM STRUCTURE AT THE PORT OF PORT ANGELES LOG YARD FACILITY

SECTION: NW 4 **LAT:** 48° 7' 42.49" N

TOWNSHIP: 31N **LONG:** 123° 28' 26.4" W

RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

TESC DETAILS

DATE: 10/6/2020

SHEET: 05 OF 14

Plotted: Oct 05, 2020 – 7:13pm jhollenbach Layout: 1800020_G3.1
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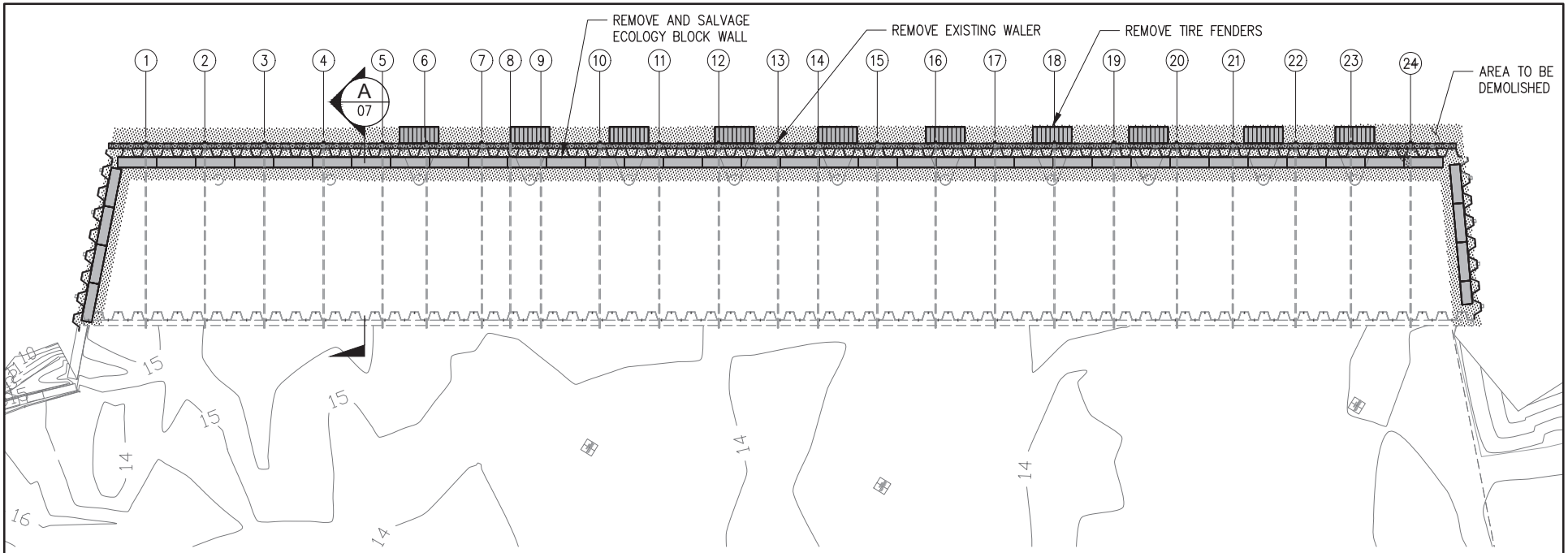

DEMOLITION AND EXCAVATION PLAN

SCALE: 1" = 30'

NOTES

1. CONTRACTOR TO DETERMINE LAYBACK SLOPE AS NEEDED FOR WORK. 2:1 BACKSLOPE SHOWN IS MAXIMUM BACKSLOPE ANTICIPATED.

LEGEND

AREA OF DEMOLITION WORK

REMOVE

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

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TOWNSHIP: 31N **LONG:** 123° 28' 26.4" W

RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

DEMOLITION AND EXCAVATION PLAN

DATE: 10/6/2020

SHEET: 06 OF 14

Plotted: Oct 04, 2020 – 5:13pm jhollenbach Layout: Demo&Exca Plan
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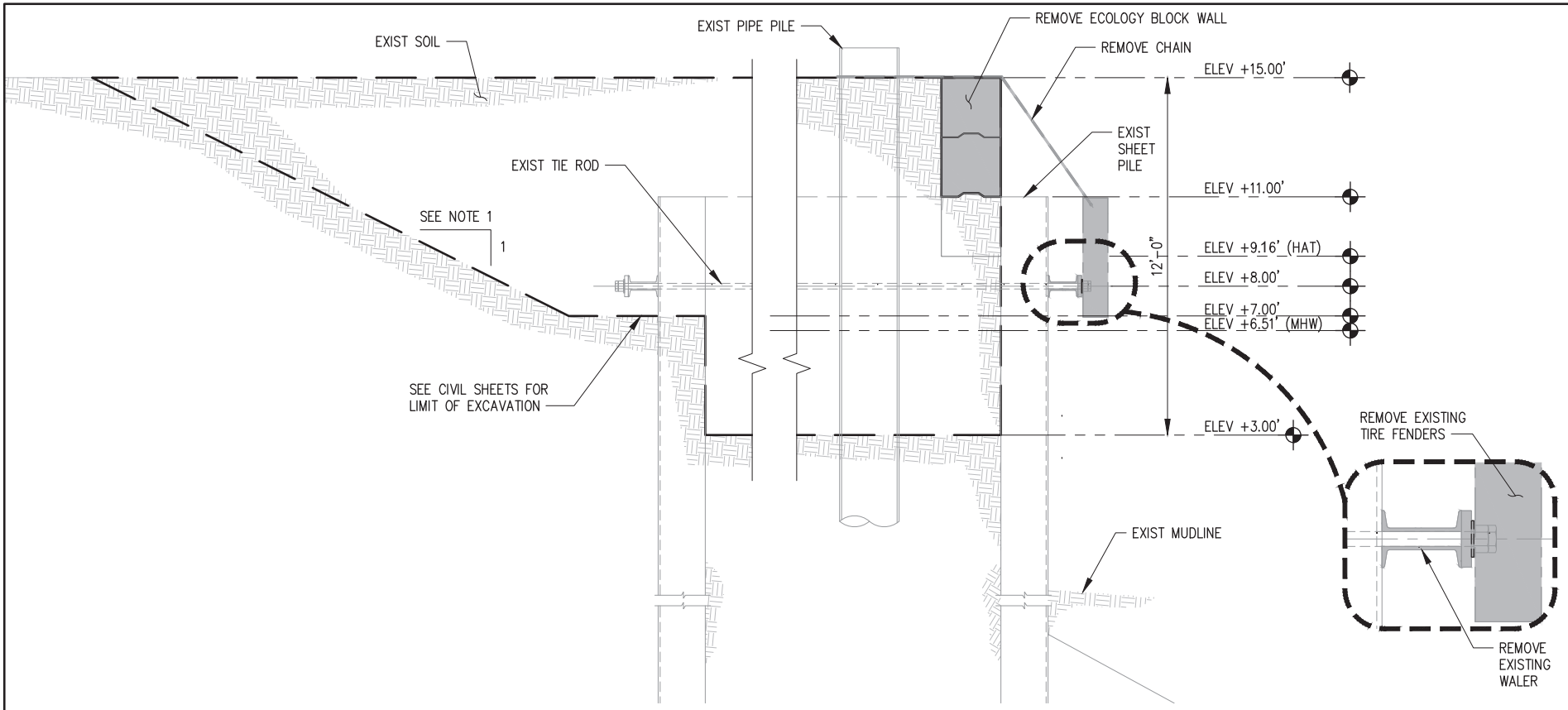
NWS-2025-170



A / 06 **TYPICAL SECTION**
SCALE: 3/16" = 1'-0"

0 1 2 4 8
SCALE IN FEET

NOTES

1. CONTRACTOR TO DETERMINE LAYBACK SLOPE AS NEEDED FOR WORK. 2:1 BACKSLOPE SHOWN IS MAXIMUM BACKSLOPE ANTICIPATED.

LEGEND

AREA OF WORK

REMOVE

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

DEMOLITION AND EXCAVATION SECTION

DATE: 10/6/2020

SHEET: 07 OF 14

Plotted: Oct 04, 2020 – 6:25pm jhollenbach Layout: Demo & Exca Section
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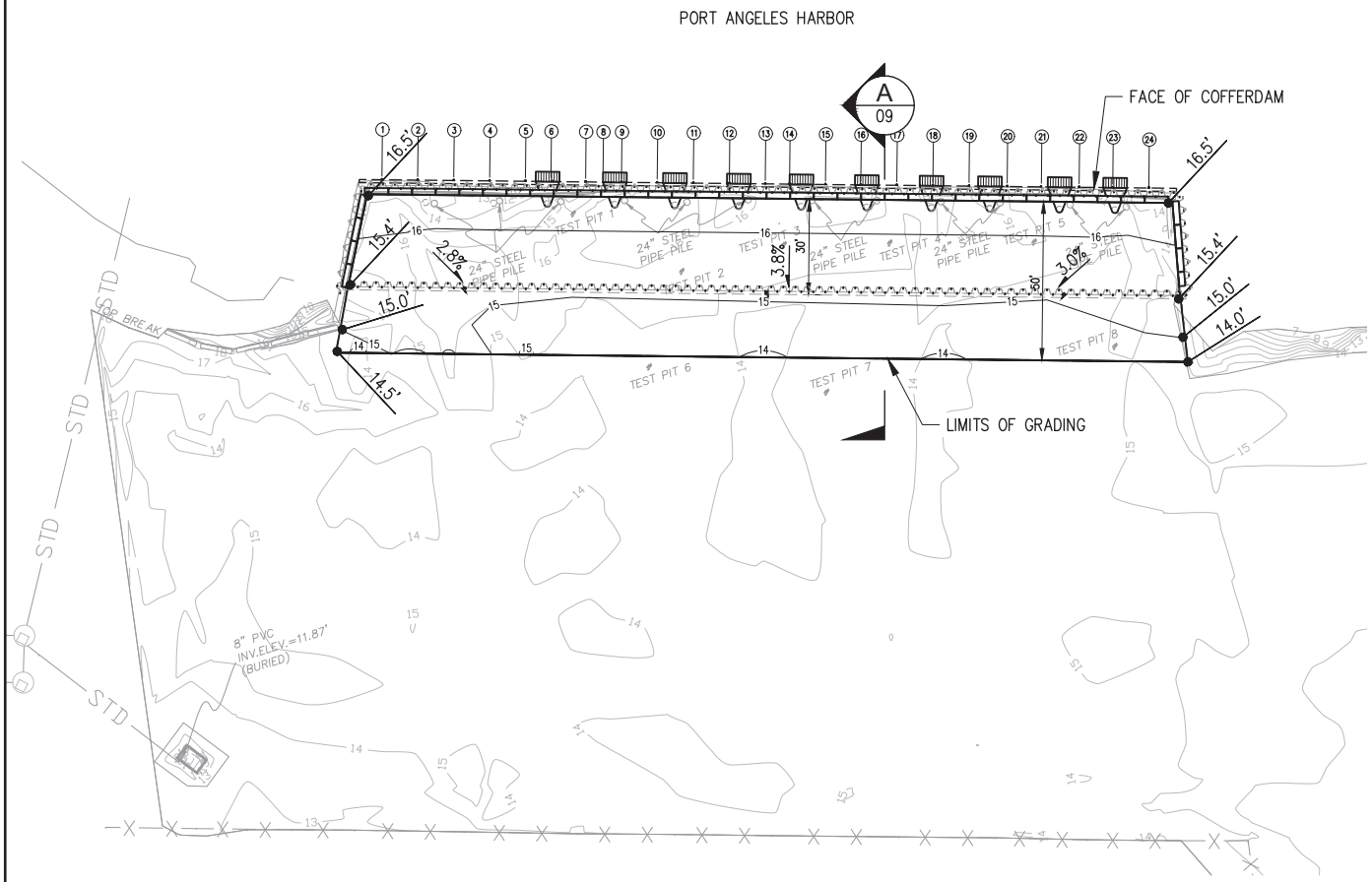

GRADING PLAN

SCALE: 1" = 60'

0 30 60 90

SCALE IN FEET

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT TOP OF GRADING.
2. STRAIGHT GRADES SHALL BE MAINTAINED BETWEEN SPOT ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED OR OVER-EXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER SPECIFICATIONS.
4. CONTRACTOR SHALL FOLLOW THE WSDOT SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (2018).
5. CONTRACTOR SHALL PROVIDE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

LEGEND:

- 15 — EXISTING GRADE CONTOUR
- 15 — PROPOSED GRADE CONTOUR
- FLOW LINE
- LIMITS OF GRADING
- STD — EXISTING STORM DRAIN
- 0.7% — FLOW DIRECTION
- SPOT ELEVATION
- (1) — TIE ROD GRID

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

GRADING PLAN

DATE: 10/6/2020

SHEET: 08 OF 14

Plotted: Oct 05, 2020 – 3:31pm jhollenbach Layout: GradingPlan
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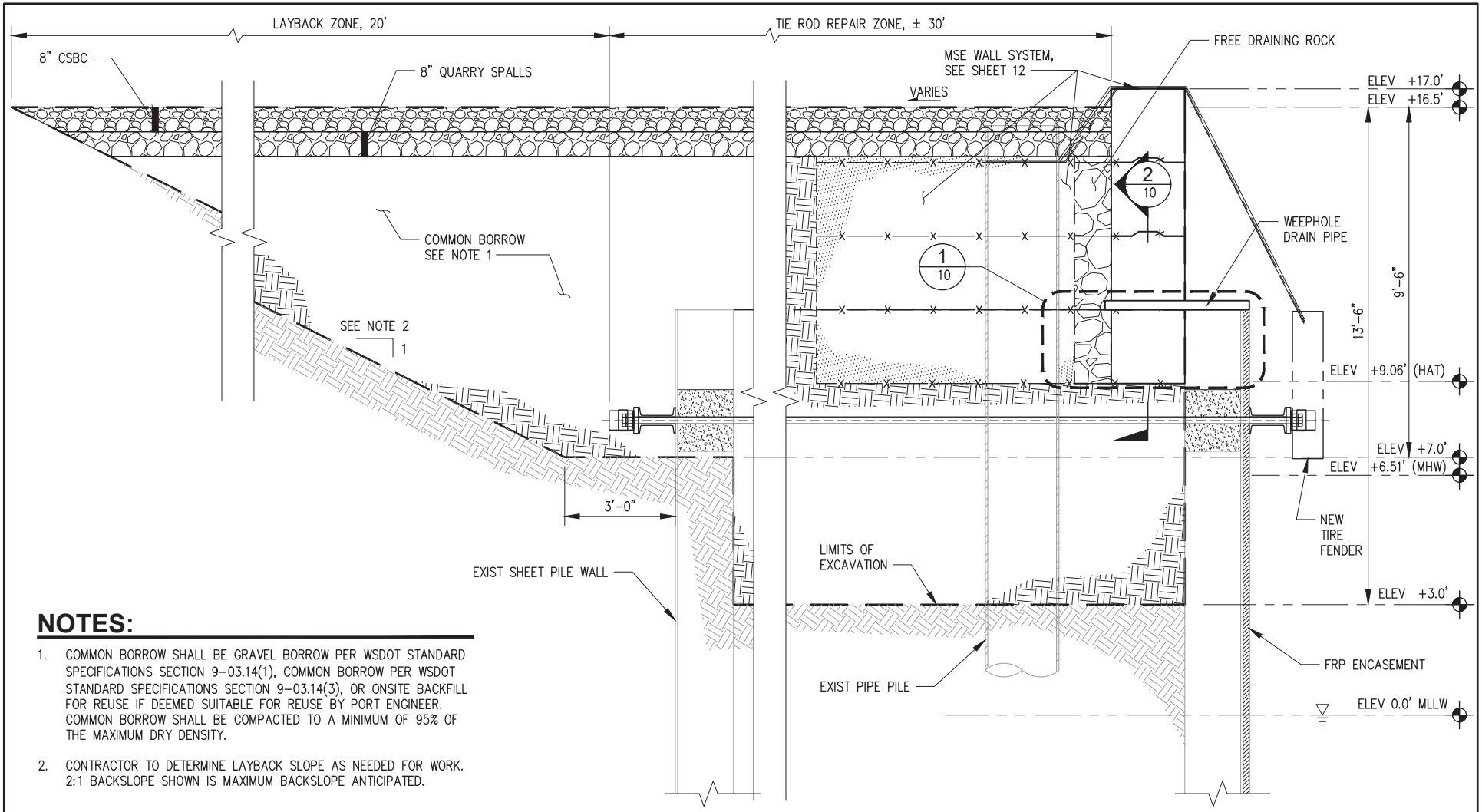
NWS-2025-170



NOTES:

1. COMMON BORROW SHALL BE GRAVEL BORROW PER WSDOT STANDARD SPECIFICATIONS SECTION 9-03.14(1), COMMON BORROW PER WSDOT STANDARD SPECIFICATIONS SECTION 9-03.14(3), OR ONSITE BACKFILL FOR REUSE IF DEEMED SUITABLE FOR REUSE BY PORT ENGINEER. COMMON BORROW SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.
2. CONTRACTOR TO DETERMINE LAYBACK SLOPE AS NEEDED FOR WORK. 2:1 BACKSLOPE SHOWN IS MAXIMUM BACKSLOPE ANTICIPATED.

A/08 **TYPICAL GRADING SECTION**

SCALE: 1/4" = 1'-0"

0 1 2 4 6

SCALE IN FEET

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

TYPICAL GRADING SECTION

DATE: 10/6/2020

SHEET: 09 OF 14

Plotted: Oct 06, 2020 – 4:52pm jhollenbach Layout: GradingSection
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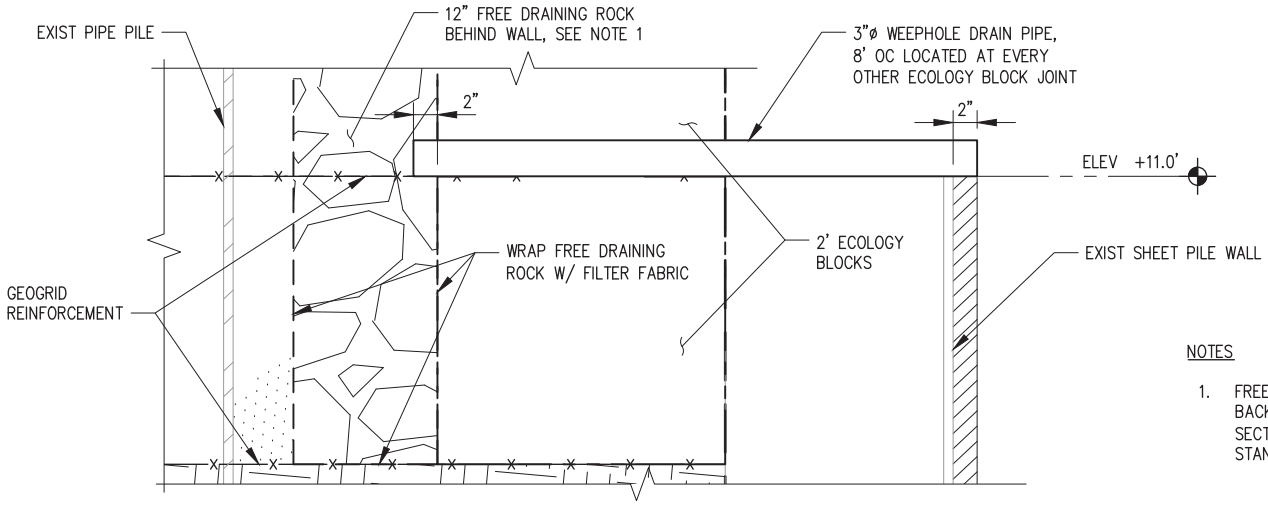
NWS-2025-170

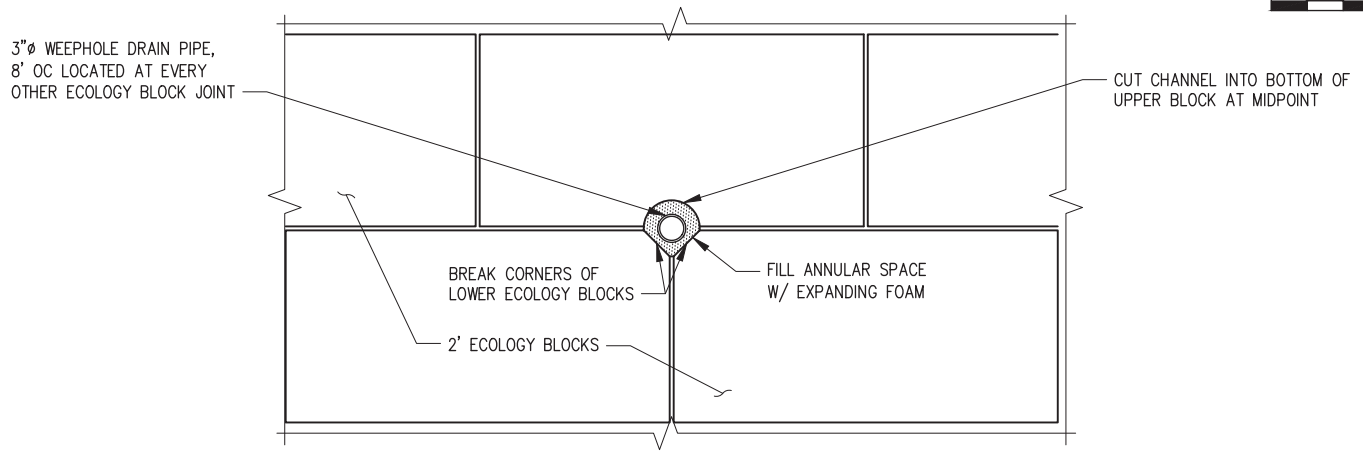


NOTES

1. FREE DRAINING ROCK SHALL BE GRAVEL BACKFILL FOR WALLS, AS DEFINED BY SECTION 9-03.12(2) IN THE WSDOT STANDARD SPECIFICATIONS..

1/09 FREE DRAINING ROCK AND WEEPHOLE DRAIN PILE DETAIL

SCALE: 3/4" = 1'-0"



2/09 WEEPING DRAIN PILE AT ECOLOGY BLOCK JOINT DETAIL

NTS

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

REFERENCE NO: NWS-2020-779

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

GRADING DETAILS

DATE: 10/6/2020

SHEET: 10 OF 14

Plotted: Oct 05, 2020 - 9:47pm jhollenbach Layout: GradingSection
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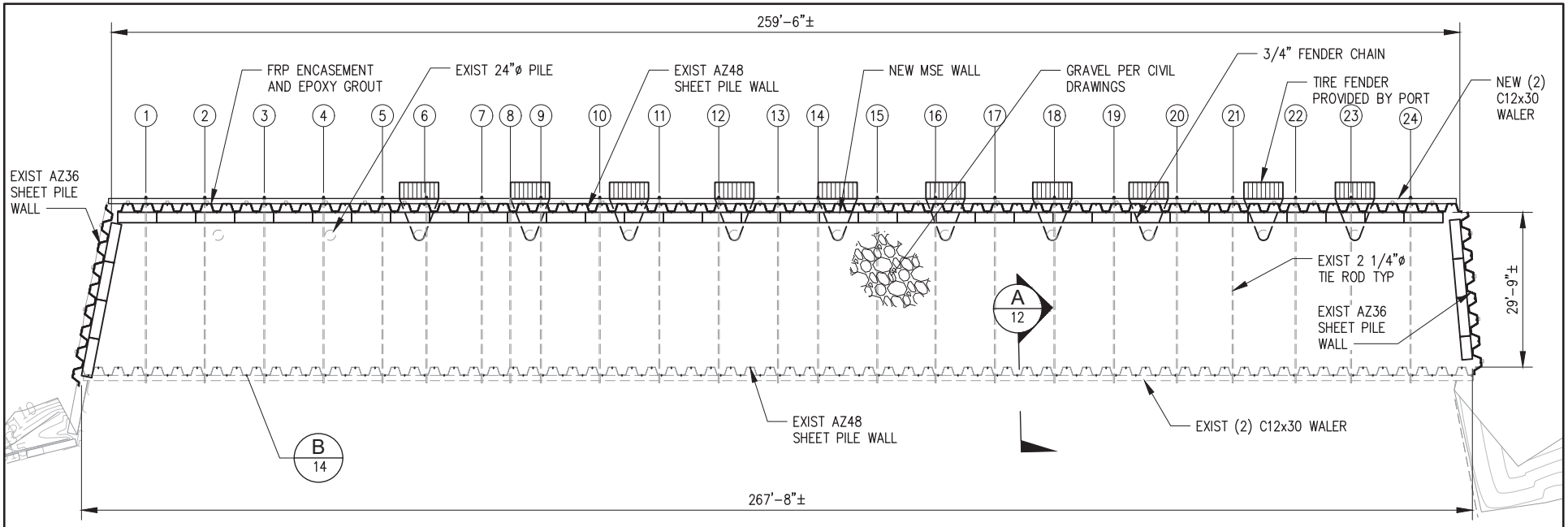

STRUCTURAL PLAN

SCALE: 1" = 30'

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

STRUCTURAL PLAN

DATE: 10/6/2020

SHEET: 11 OF 14

Plotted: Oct 05, 2020 – 7:03pm jhollenbach Layout: StructuralPlan
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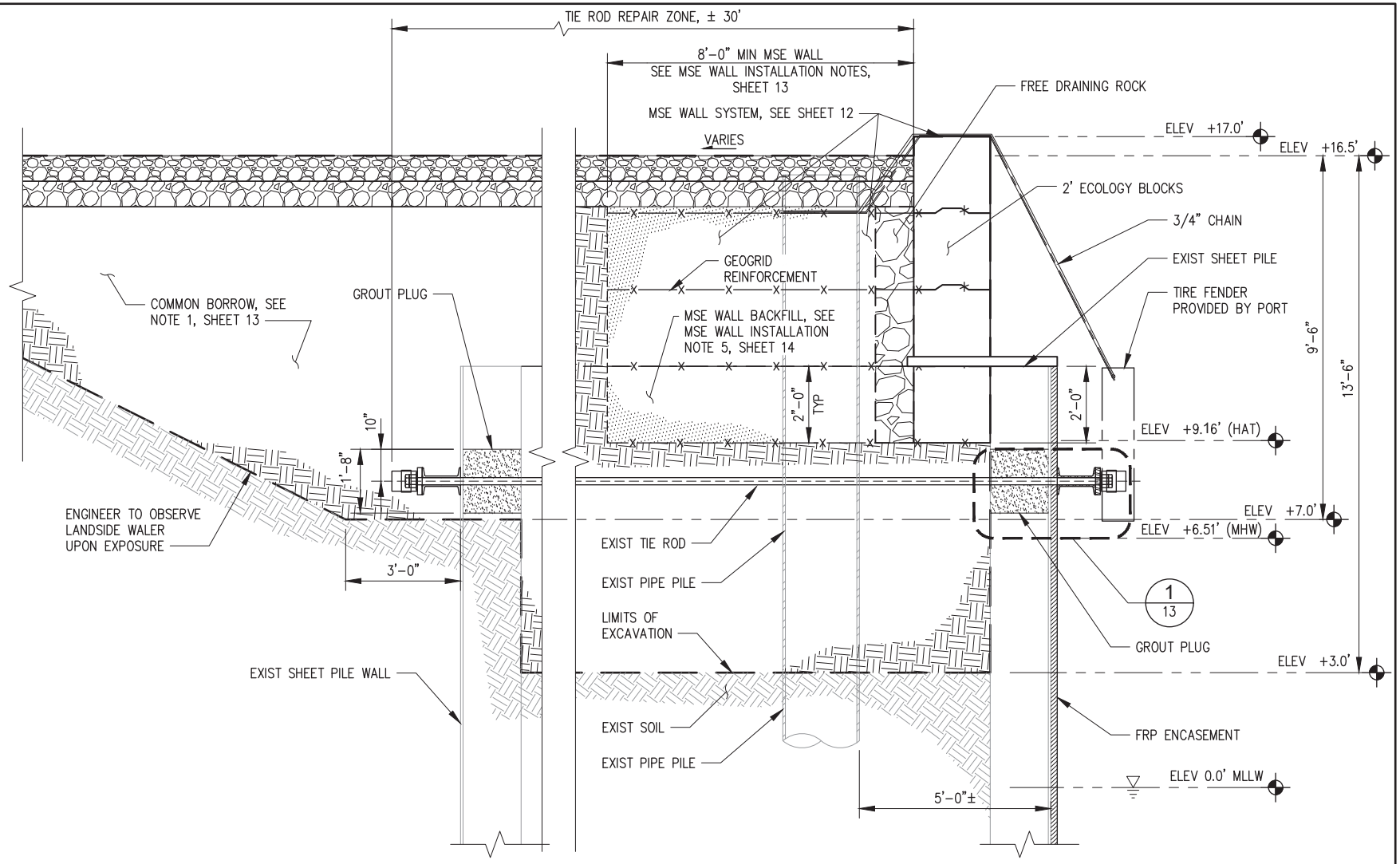

A
XX

TYPICAL SECTION AT TIE ROD

SCALE: 1/4" = 1'-0"

0 1 2 4 6
SCALE IN FEET

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

TYPICAL SECTION

DATE: 10/6/2020

SHEET: 12 OF 14

Plotted: Oct 07, 2020 – 4:31pm jhollenbach Layout: 1800020_S3.0
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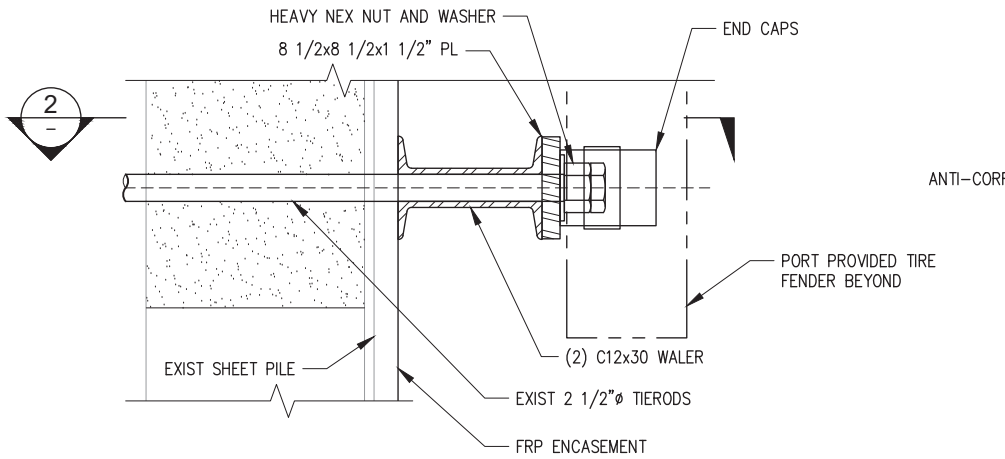
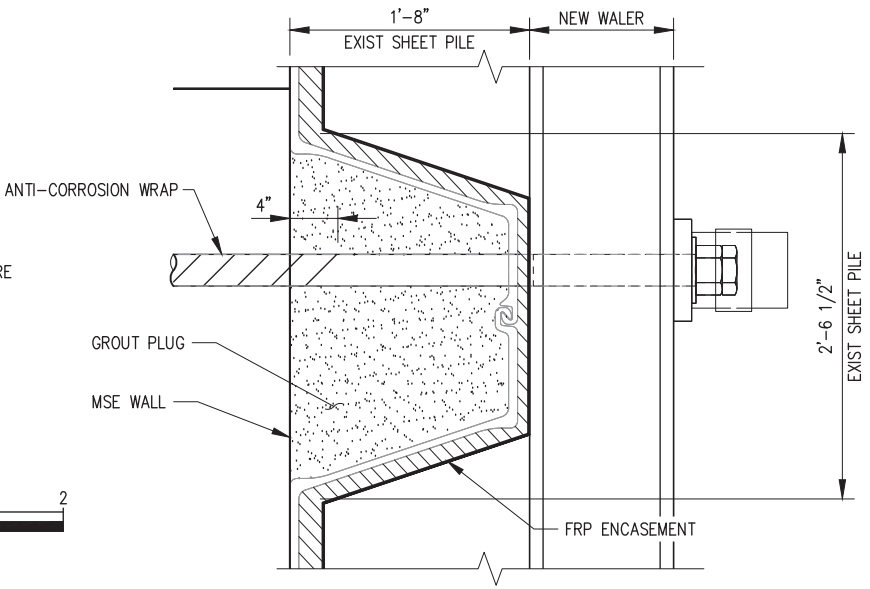
NWS-2025-170



1 / 12 **DETAIL**
SCALE: 3/4" = 1'-0"

0 1 2
SCALE IN FEET



TIE ROD ENCAPSULATION DETAIL EACH SIDE

2 / – SCALE: 3/4" = 1'-0"

NOTES

WATERSIDE WALER REPLACEMENT–CONSTRUCTION SEQUENCE REQUIREMENTS;
MEANS AND METHOD TO BE DETERMINED BY CONTRACTOR:

1. LANDSIDE EXCAVATION DOWN TO ELEVATION +3.00' MIN BEFORE REMOVING WALER.
2. ENGINEER TO OBSERVE LANDSIDE WALER. CONTRACTOR TO NOTIFY ENGINEER WHEN WALER IS AVAILABLE FOR OBSERVATION.
3. REMOVE AND REPLACE WALER WITH (2) C12x30 WALER BEAMS.
4. APPLY TRENTON PILE PRIMER, WAX TAPE #2, AND MC0110 OUTER WRAP OR BETTER ON ALL EXIST TIE RODS.
5. REPLACE WASHER AND NUT ON TIE ROD END AND TIGHTEN UNTIL WALL IS PLUMB. BEGIN BACK FILLING.
6. INSTALL A 20" GROUT PLUG CENTERED ABOUT THE TIE ROD ON LANDSIDE AND WATERSIDE.
7. MONITOR WALL FOR PLUMBNESS AND CONTINUALLY ADJUST TIE ROD NUT ASSEMBLY TO ENSURE WALL IS PLUMB DURING BACKFILL OPERATION.
8. ENCAPSULATE WATERSIDE AND LANDSIDE TIE ROD ENDS USING WILLIAMS FORM GREASE FILLED FIBER REINFORCED NYLON END CAPS OR BETTER.

MSE WALL INSTALLATION NOTES

1. MSE WALL SHALL BEGIN APPROXIMATELY 2 FT BELOW TOP OF EXIST SHEET PILE.
2. REUSE EXIST ECOLOGY BLOCKS OR PURCHASE NEW ECOLOGY BLOCKS AT CONTRACTOR'S OPTION.
3. GEOGRID REINFORCEMENT SHALL CONFORM TO WSDOT STANDARD SPECS AND HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 5,500 POUNDS PER FOOT.
4. GEOGRID SHALL BE INSTALLED IN CONTINUOUS SHEETS AT A VERTICAL SPACING OF 2 FEET. MANUFACTURER SHALL DESIGN AND SUBMIT SHOP DRAWINGS OF CONNECTION OF GEOTEXTILE BETWEEN ECOLOGY BLOCKS PRIOR TO INSTALLATION.
5. MSE WALL BACKFILL SHALL BE GRAVEL BORROW BACKFILL, AS DEFINED BY WSDOT STANDARD SPECIFICATIONS SECTION 9-03.14(1), COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DEFINED BY THE MODIFIED PROCTOR TEST, ASTM D1557.
6. MSE SUBGRADE SHALL BE COMPACTED TO A FIRM AND UNYIELDING SURFACE AND SHOULD BE OBSERVED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

APPLICATION BY: PORT OF PORT ANGELES

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RANGE: 6W **DATUM:** MLLW = 0.00'

PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

DETAILS AND NOTES

DATE: 10/6/2020

SHEET: 13 OF 14

Plotted: Oct 07, 2020 – 4:30pm jhollenbach Layout: 1800020_S3.0
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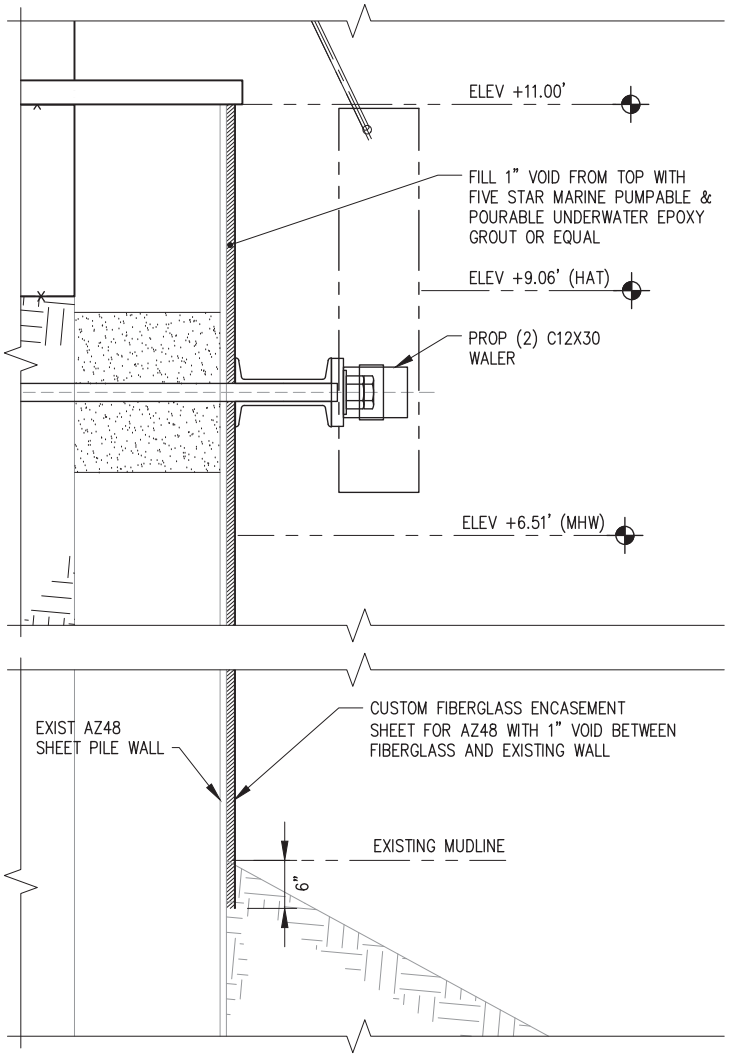
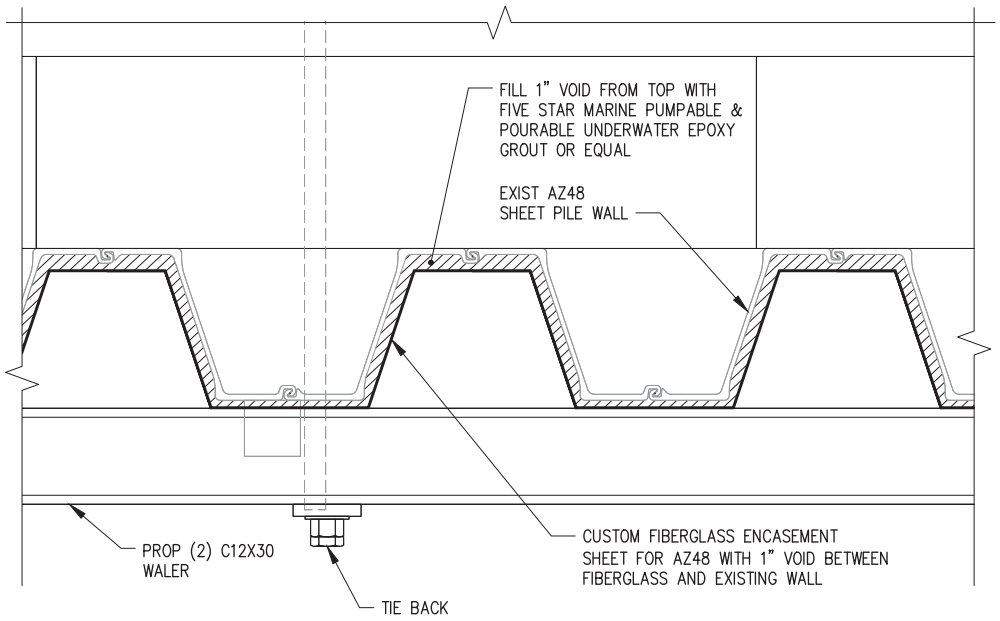
NWS-2025-170



A / XX **SECTION - FRP ENCASEMENT**
SCALE: 1/2" = 1'-0"



1 / XX **DETAIL - FRP ENCASEMENT**
SCALE: 1/2" = 1'-0"

0 1 2 3
SCALE IN FEET

IN: STRAIT OF JUAN DE FUCA

AT: PORT OF PORT ANGELES COFFERDAM

CITY: PORT ANGELES **COUNTY:** CLALLUM

STATE: WASHINGTON **PARCEL #:** 063099190035

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PORT OF PORT ANGELES COFFERDAM

LOADING STRUCTURE MAINTENANCE AND REPAIR PROJECT

FIBERGLASS ENCASEMENT DETAILS

DATE: 10/6/2020

SHEET: 14 OF 14

Plotted: Oct 05, 2020 – 7:56pm jhollenbach Layout: FiberglassEncaseDetails
M:\2018\1800020 POPA Conditions Assessment\Drawings\Exhibits\2020-10-02 JARPA – 8.5x11\14_1800020_FiberglassEncasementDetails.dwg

NWS-2025-170