



US Army Corps
of Engineers
Seattle District



Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone: (206) 764-3450
ATTN: Jason Sweeney,
Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone: (360) 407-6076
ATTN: SEA Program,
Federal Permit Coordinator

Public Notice Date: September 24, 2020
Expiration Date: October 24, 2020

Reference No.: NWS-2020-760-WRD
Name: Seattle, Port of (Elliott Bay Net
Pen)

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the U.S. as described below and shown on the enclosed drawings dated May 31, 2020.

The Corps will review the work in accordance with Section 10 of the Rivers and Harbors Act. Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: Port of Seattle
Attention: Matthew Mateo
P.O. Box 1209
Seattle, Washington 98111
Telephone: (206) 787-3433

LOCATION: In Puget Sound near Seattle, King County, Washington.

WORK: The proposed project is to expand an existing 120-foot long by 50-foot wide by 25-foot deep coho salmon acclimatization net pen by installing a net pen of the same dimensions directly to the south. The total net pen size would be 240-feet long, 50-feet wide, and 28 feet deep.

PURPOSE: To provide additional coho salmon rearing and acclimatizing capabilities to an existing facility.

ADDITIONAL INFORMATION: The net pen expansion would require an additional five 5-inch diameter steel pin-piles, two for the new net pen and three for the existing net pen, four 3,000 pound drag embedment anchors, six anchor lines, four spar floats, four compensator/crown floats, and eight gridlines.

The 20-foot long 5-inch diameter steel pin piles would be driven into the substrate leaving up to 4-feet exposed above the water line to attach the anchor chains and mooring lines. The four 3,000 pound drag embedment anchors would then be installed along with the anchor chains and mooring lines. The anchors, chains, and lines would be installed on to the north and south first. Spar buoys and their associated lines and rigging would then be connected

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to the north and south anchors, and the mooring lines would be pre-tensioned to hold the spar buoy positions. Once the south mooring lines assemblies are partially tensioned, the eastern assemblies would be connected between the spar buoys and pin piles. Once the eastern assemblies are connected, the western assemblies would then be connected between the spar buoys and pin piles. The GPS locations of the anchors would then be recorded. The net pen would be installed over a period of up to two days, shortly before the fish arrive from the hatchery.

All piles would be driven using a barge based vibratory pile driver. If piles meet resistance and cannot be driven deeper than 16-feet, the pile would be extracted and driven a short distance away. The potential area of disturbance is not expected to exceed 16 square feet at any pile driving location.

The net pens would be positioned in a minimum depth of 46-feet of water, relative to mean lower low water (MLLW). This would provide a minimum of 18-feet between the bottom of the netting and the sediment at MLLW. The spar buoys would extend deeper than the netting, and would have 15-feet of clearance.

Most of the work would occur from a barge, with a support vessel and divers. The barge utilizes 36-inch diameter spuds and a three point anchoring system.

The current net pen has a capacity of 500,000 coho salmon yearlings. The proposed expansion would increase the capacity to 1,000,000 fish.

The line of mean high water 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 waters are substantially inaccurate a new public notice may be published.

MITIGATION: No compensatory 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. After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

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. If the U.S. Army Corps of Engineers (Corps) determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The Corps has reviewed the latest published version of the National Register of Historic Places, Washington Information System for Architectural and Archaeological Records Data and other sources of information. There are no recorded historic properties within the permit area. The proposed work is of such that little likelihood exists for the project to impinge upon an unrecorded historic property. The Corps invites responses to this public notice from Native American Tribes or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns regarding historic properties and sites of religious and cultural significance at or near the project area. After receipt of comments from this public notice, the Corps will evaluate potential impacts and consult with the State Historic

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Preservation Officer and Native American Tribes in accordance with Section 106 of the National Historic Preservation Act, 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 – CORPS: 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 Corps 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.

EVALUATION – ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

This proposal is the subject of Shorelines Substantial Development Permit No. #3036592-LU, being processed by Seattle Department of Construction and Inspections.

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. 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 whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

CORPS COMMENTS: All e-mail comments should be sent to jason.t.sweeney@usace.army.mil. Conventional mail comments should be sent to: U.S. Army Corps of Engineers, Regulatory Branch, Attention: Jason Sweeney, P.O. Box 3755, Seattle, Washington 98124-3755. 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.

ECOLOGY COMMENTS: Any person desiring to present views on the project pertaining to a request for water

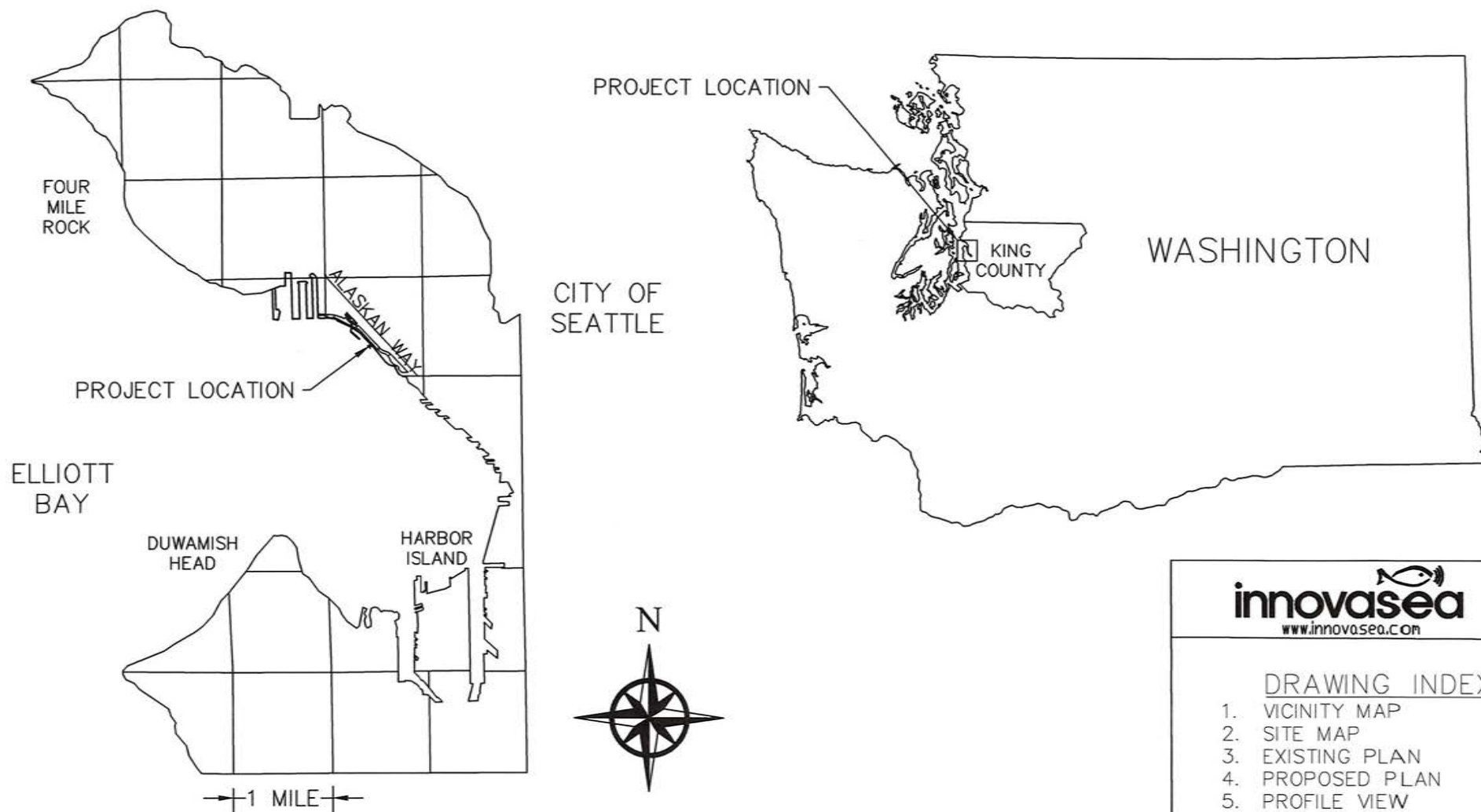
NWS-2020-760-WRD, Seattle, Port of (Elliott Bay Net Pen)

quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Washington State Department of Ecology, Attention: Federal Permit Coordinator, Post Office Box 47600, Olympia, Washington 98504-7600, or e-mail to ecyrefedpermits@ecy.wa.gov

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: Seattle, Port of (Elliott Bay Net Pen); NWS-2020-760-WRD

Encl: Figures (7)

ELLIOTT BAY ACCLIMATION NET PEN IMPROVEMENTS



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DRAWING INDEX:

1. VICINITY MAP
2. SITE MAP
3. EXISTING PLAN
4. PROPOSED PLAN
5. PROFILE VIEW
6. END VIEW

PROPOSED PROJECT:

Elliott Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:

955 Alaskan Way West

NEAR: Seattle

COUNTY: King

STATE: Washington

LAT/LONG:

47°62'20.97"N -122°36'74.82"W

DATUM: GCS North American 1983

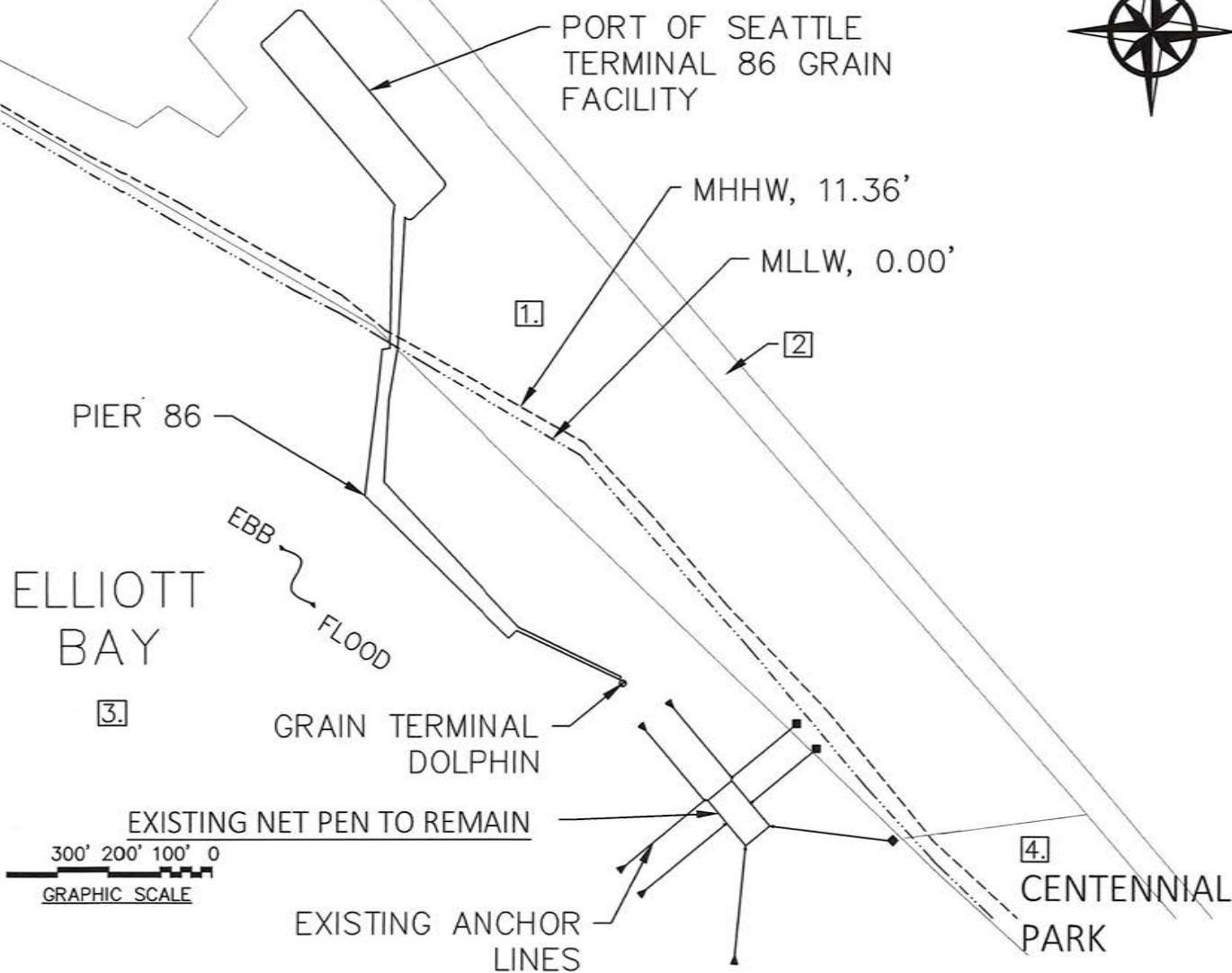
SHEET: 1 of 7

DATE: 5/31/2020

PROJECT SITE



- LEGEND**
- ◆ PIN PILE ANCHOR
 - ▲ DRAG TYPE ANCHOR
 - COMPENSATOR FLOAT
 - SPAR
 - MLLW
 - - - MHHW
 - CHAIN
 - ANCHORLINE
 - - - GRIDLINE
 - ⊕ DOLPHIN
 - PARCEL BOUNDARIES



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PARCEL OWNER #:

- 1. PORT OF SEATTLE, # 7666202
 - 2. BNSF # 7666201903
 - 3. HYDRO # 252503HYDR
 - 4. CITY OF SEATTLE FAS # 7666202125
- IN: ELLIOTT BAY, PUGET SOUND
COUNTY OF: KING
STATE: WASHINGTON

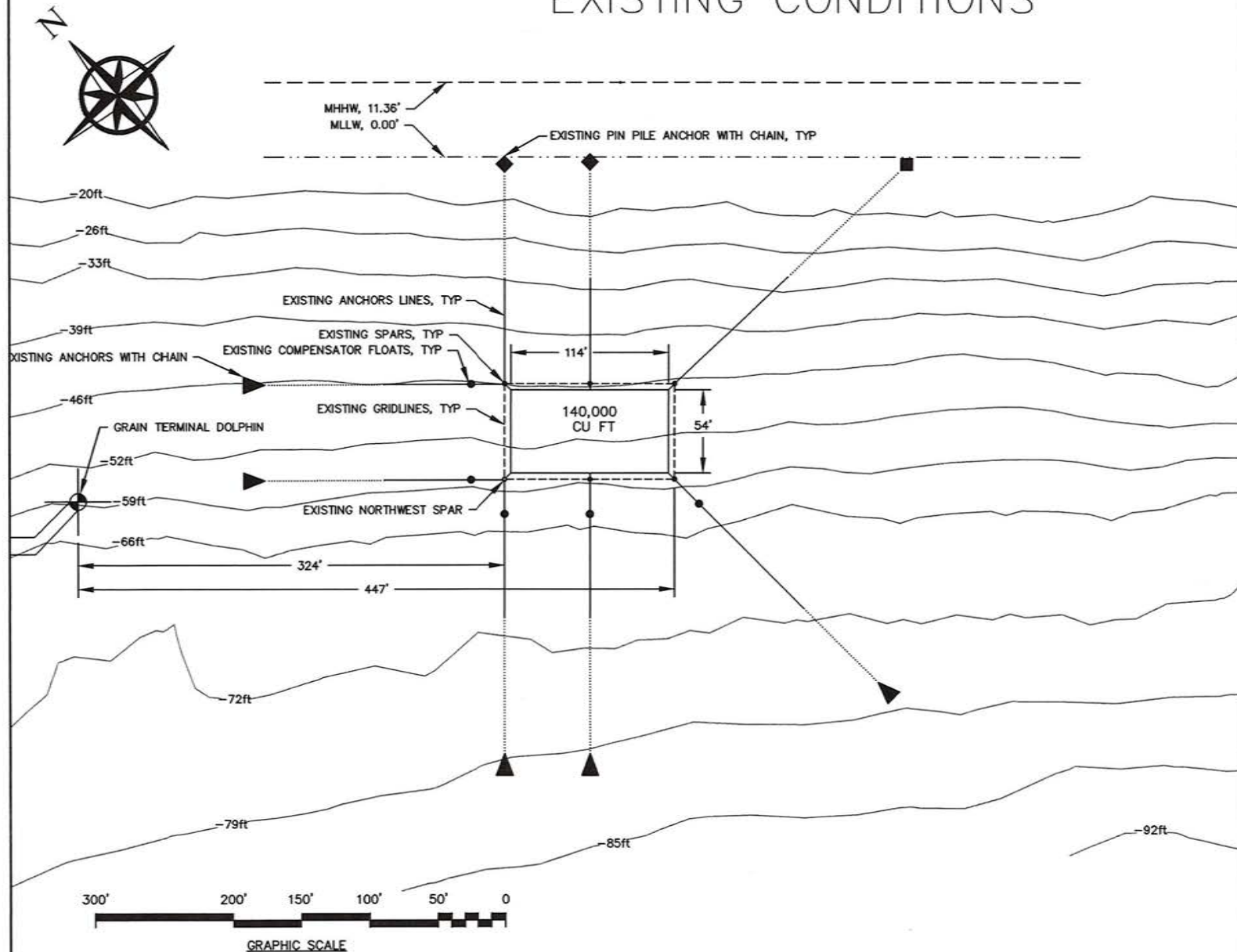
PROPOSED PROJECT:
Elliot Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:
955 Alaskan Way West
NEAR: Seattle
COUNTY: King **STATE:** Washington
LAT/LONG:
47°62'20.97"N -122°36'74.82"W

DATUM: GCS North American 1983
SHEET: 2 of 7
DATE: 5/31/2020

EXISTING CONDITIONS



- LEGEND**
- ◆ PIN PILE ANCHOR
 - ▲ DRAG TYPE ANCHOR
 - COMPENSATOR FLOAT
 - SPAR
 - MLLW
 - - - MHHW
 - CHAIN
 - ANCHORLINE
 - - - GRIDLINE
 - ⊕ DOLPHIN
 - PARCEL BOUNDARIES

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Note:
DATUM: MLLW LEVEL
GEOGRAPHIC COORDINATES:
DMS

DOLPHIN,
47°37'22.65"N, 122°22'7.28"W

PROPOSED PROJECT:
Elliot Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:
955 Alaskan Way West
NEAR: Seattle
COUNTY: King **STATE:** Washington

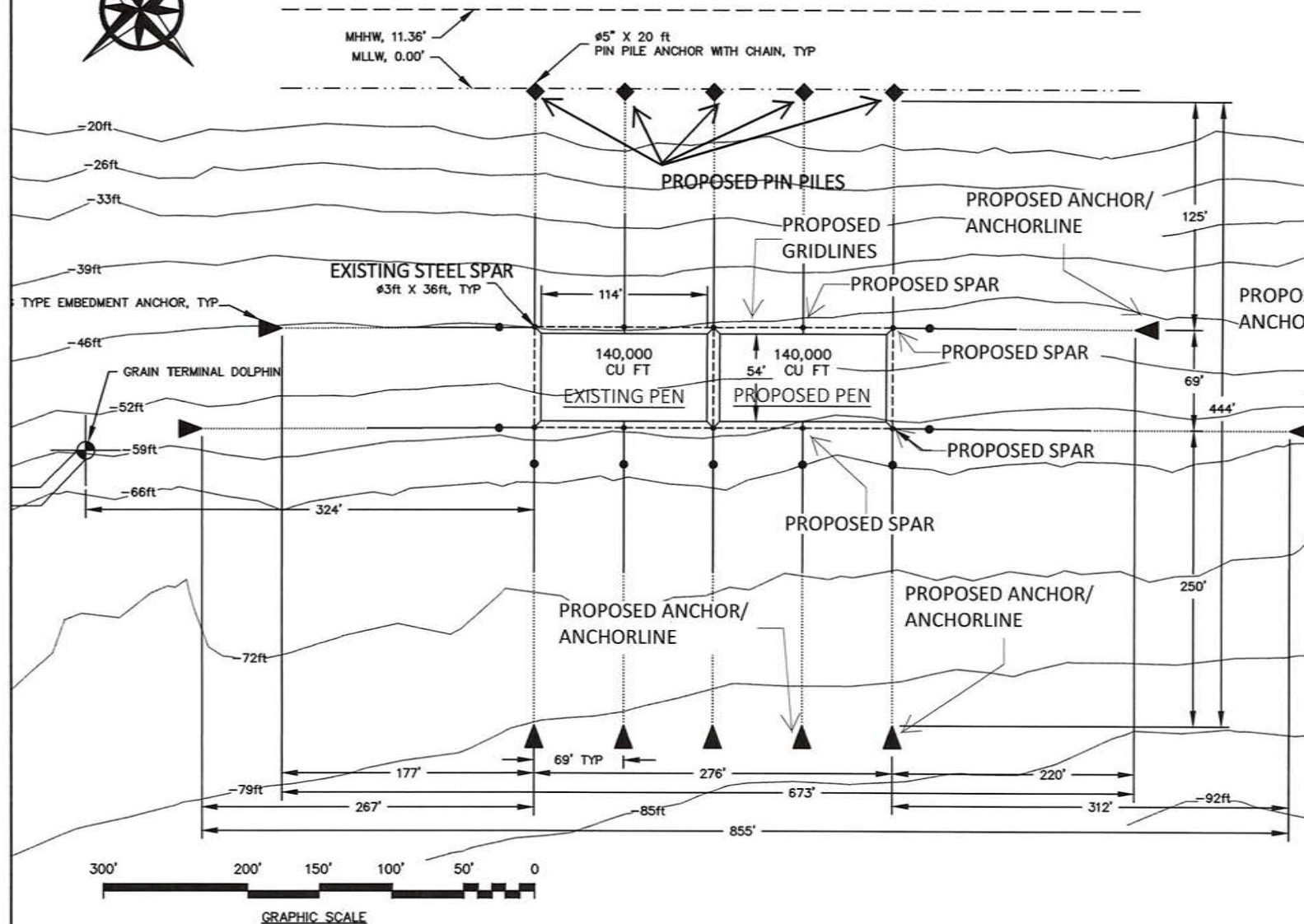
LAT/LONG:
47°62'20.97"N -122°36'74.82"W

DATUM: GCS North American 1983

SHEET: 3 of 7

DATE: 5/31/2020

PROPOSED CONDITIONS – PLAN VIEW



- LEGEND**
- ◆ PIN PILE ANCHOR
 - ▲ DRAG TYPE ANCHOR
 - COMPENSATOR FLOAT
 - SPAR
 - MLLW
 - - - MHHW
 - CHAIN
 - ANCHORLINE
 - - - GRIDLINE
 - ⊙ DOLPHIN
 - PARCEL BOUNDARIES

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Notes:
 DATUM: MLLW LEVEL
 GEOGRAPHIC COORDINATES: DMS
 DOLPHIN,
 47°37'22.65"N, 122°22'7.28"W
 EXISTING NW SPAR,
 47°37'20.57"N, 122°22'4.40"W
 PROPOSED SW SPAR,
 47°37'18.80"N, 122°22'2.14"W
 NET PEN IMPROVEMENT NOTES
 500,000 TOTAL FISH PER PEN
 @ 3.6 FISH PER CUBIC FT
 TOTAL IN-WATER VOLUME:
 (NET DIMS 54'X114'X23') =
 140,000 CUBIC FT

PROPOSED PROJECT:
 Elliot Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:
 955 Alaskan Way West
NEAR: Seattle
COUNTY: King **STATE:** Washington

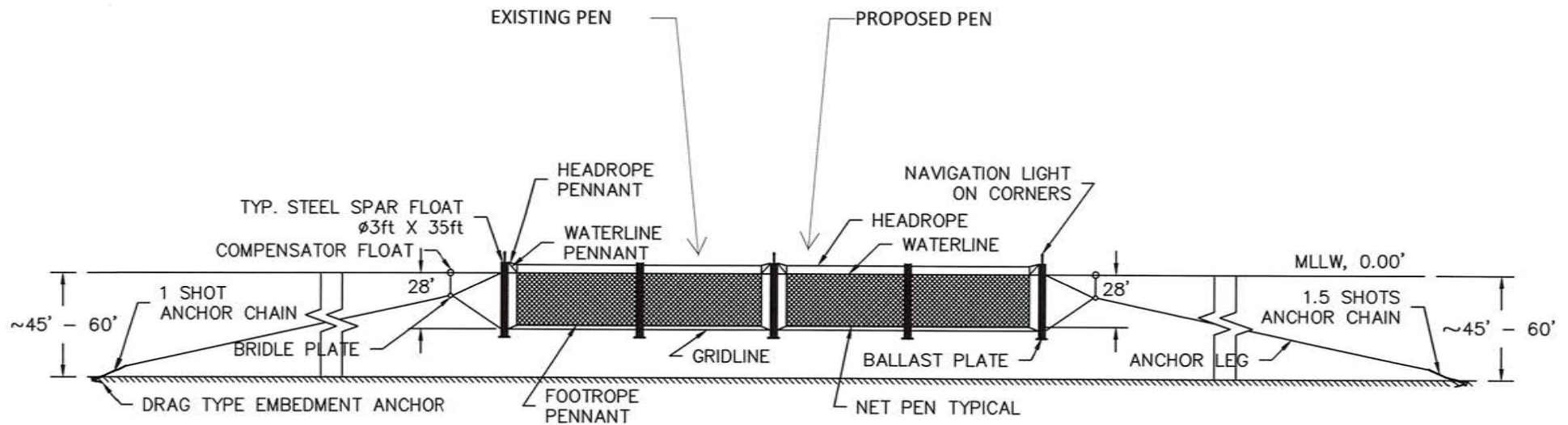
LAT/LONG:
 47°62'20.97"N -122°36'74.82"W

DATUM: GCS North American 1983

SHEET: 4 of 7

DATE: 5/31/2020

PROPOSED CONDITIONS – PROFILE VIEW



GRAPHIC SCALE

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Notes:
VIEW PARALLEL TO SHORELINE
ALL DEPTHS ARE AT LOW TIDE
(MLLW)

PROPOSED PROJECT:
Elliot Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:
955 Alaskan Way West
NEAR: Seattle
COUNTY: King **STATE:** Washington

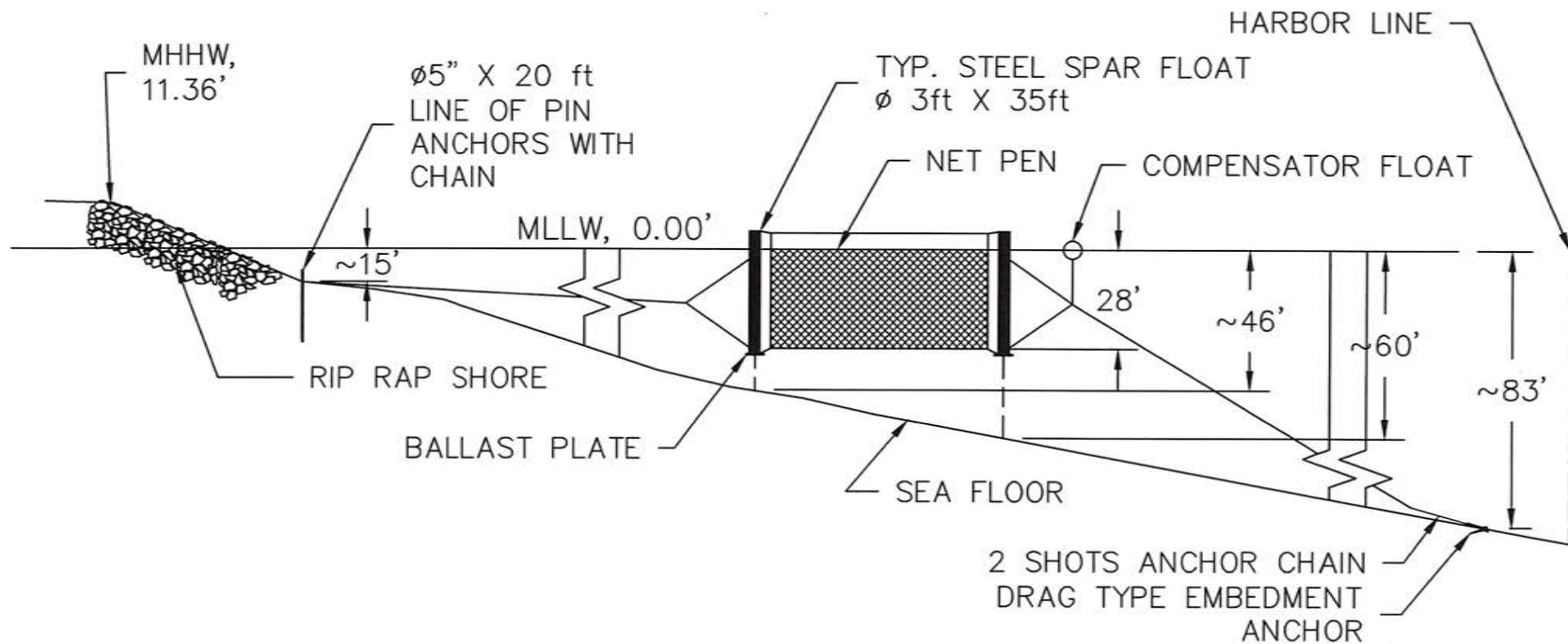
LAT/LONG:
47°62'20.97"N -122°36'74.82"W

DATUM: GCS North American 1983

SHEET: 5 of 7

DATE: 5/31/2020

PROPOSED CONDITIONS – PROFILE VIEW



GRAPHIC SCALE

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Notes:
VIEW PERPENDICULAR TO SHORELINE
ALL DEPTHS ARE AT LOW TIDE (MLLW)

PROPOSED PROJECT:
Elliot Bay Acclimation Net Pen Improvements

APPLICANT: Port of Seattle
REFERENCE: NWS-2020-XXX

LOCATION ADDRESS:
955 Alaskan Way West
NEAR: Seattle
COUNTY: King **STATE:** Washington

LAT/LONG:
47°62'20.97"N -122°36'74.82"W

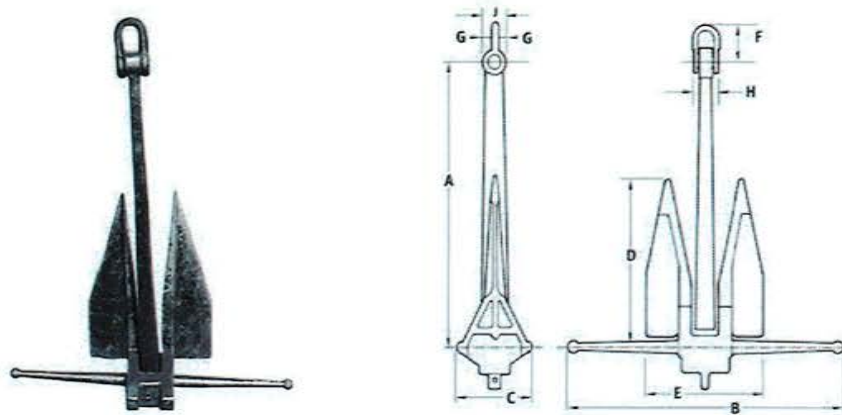
DATUM: GCS North American 1983

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DATE: 5/31/2020

ANCHOR AND ANCHOR CHAIN DETAIL

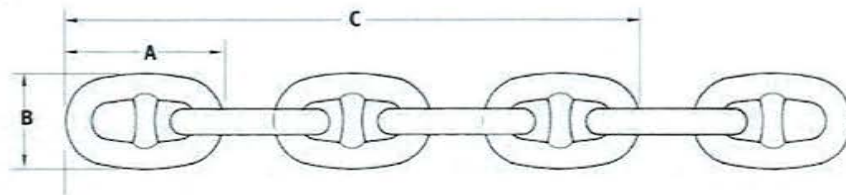
3000lb RWT Anchors



Anchor Dimensions (inches)

A	B	C	D	E	F	G	H	J
108-1/2	104	34-3/4	66	40-3/8	15	3	11	7-3/4

Anchor Chain:



Stud Link Anchor Chain Dimensions

Chain Size		Dimensions (inches)			Weight per 15 Fathom Shot	Proof Test	Break Test
Inches	mm	A	B	C	Pounds	Pounds	Pounds
1 -1/8	29	6-3/4	4	24-3/4	1,080	105,000	150,000

PROPOSED PROJECT:
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LOCATION ADDRESS:
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SHEET: 7 of 7

DATE: 5/31/2020