

NOME LOCATION MAP

PROPOSED ACTIVITY:
 CONSTRUCT BULKHEAD FILL DOCK
 WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
 NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

FILE NO.: POA-2012-180

**VICINITY AND
 LOCATION**

NOME MID DOCK

CITY OF NOME
 PO BOX 281
 NOME, AK 99762

Permit: POA-2012-180
 Waterway: Norton Sound
 Applicant: Port of Nome
 Agent: PND Engineers, Inc.

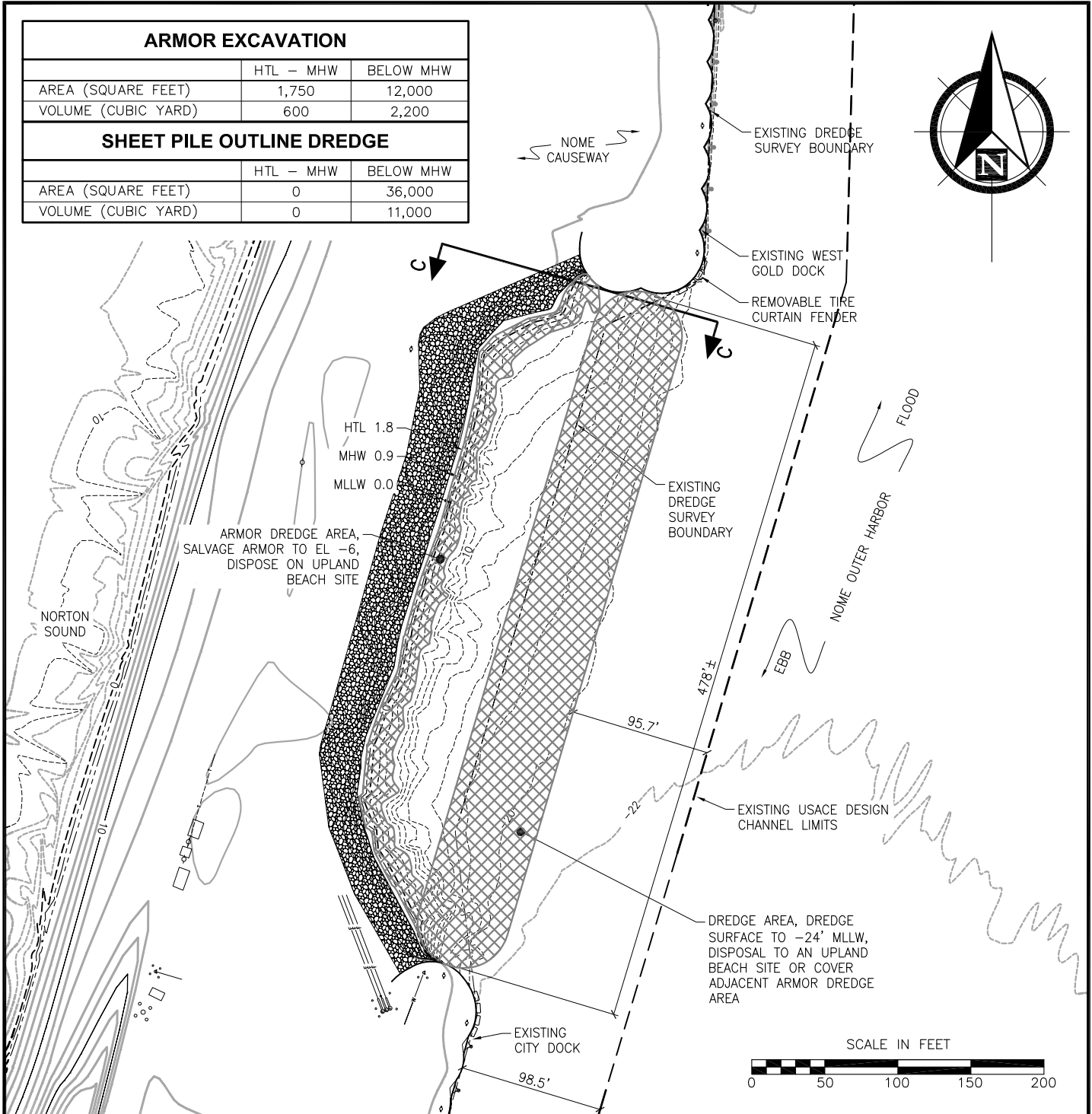
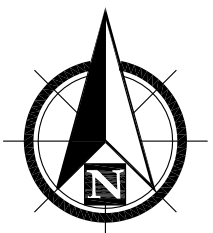
NOME OUTER HARBOR,
 NORTON SOUND

T 11S, R 34W, SEC 35
 KATEEL RIVER MERIDIAN,
 NOME, ALASKA

FEB 22, 2013 SHEET **1** of **8**

ARMOR EXCAVATION		
	HTL - MHW	BELOW MHW
AREA (SQUARE FEET)	1,750	12,000
VOLUME (CUBIC YARD)	600	2,200

SHEET PILE OUTLINE DREDGE		
	HTL - MHW	BELOW MHW
AREA (SQUARE FEET)	0	36,000
VOLUME (CUBIC YARD)	0	11,000



PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK
WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

FILE NO.: POA-2012-180

DREDGE PLAN NOME MID DOCK

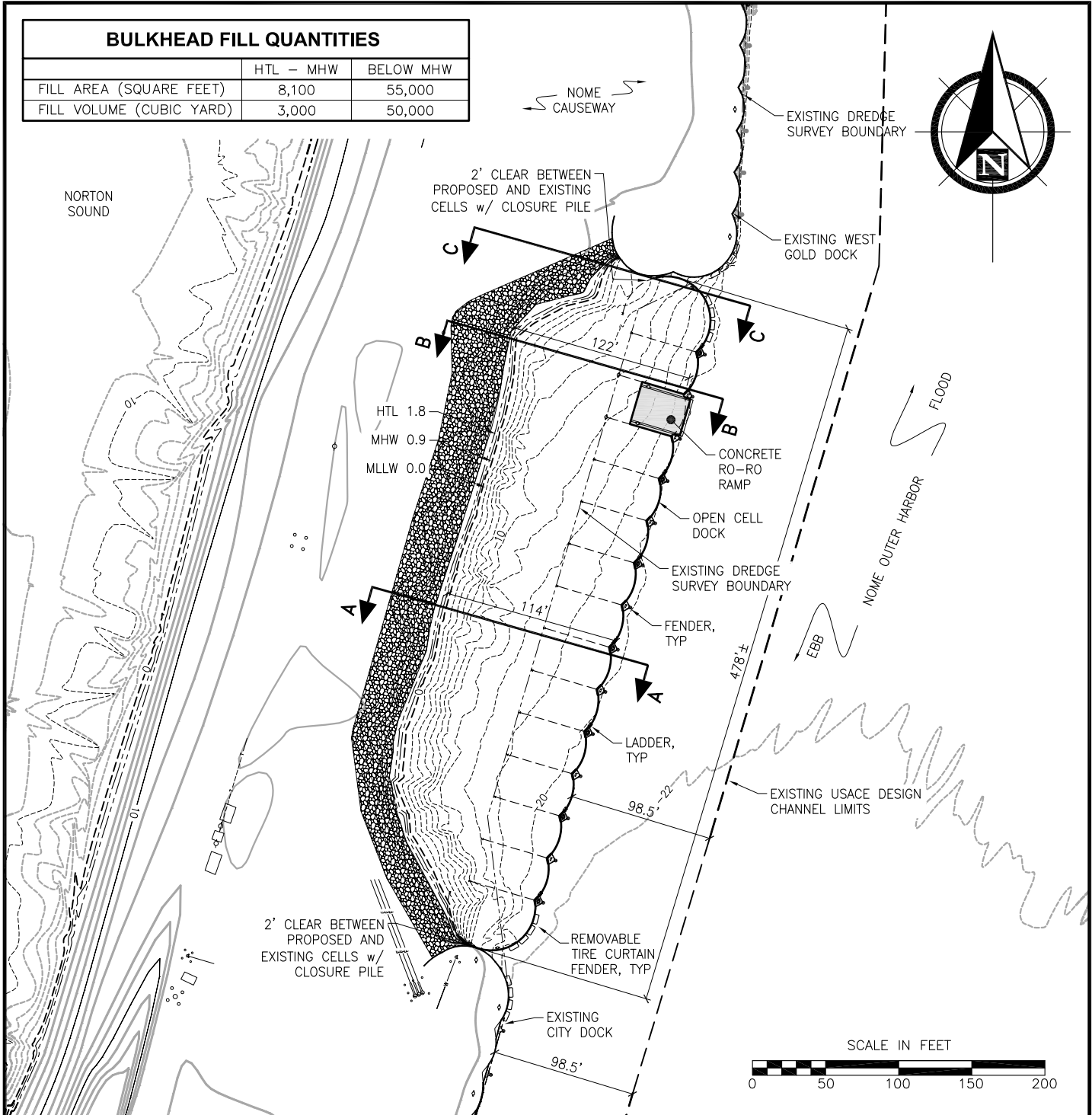
CITY OF NOME
PO BOX 281
NOME, AK 99762

Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

NOME OUTER HARBOR,
NORTON SOUND
T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA

BULKHEAD FILL QUANTITIES

	HTL - MHW	BELOW MHW
FILL AREA (SQURE FEET)	8,100	55,000
FILL VOLUME (CUBIC YARD)	3,000	50,000



PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK
WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

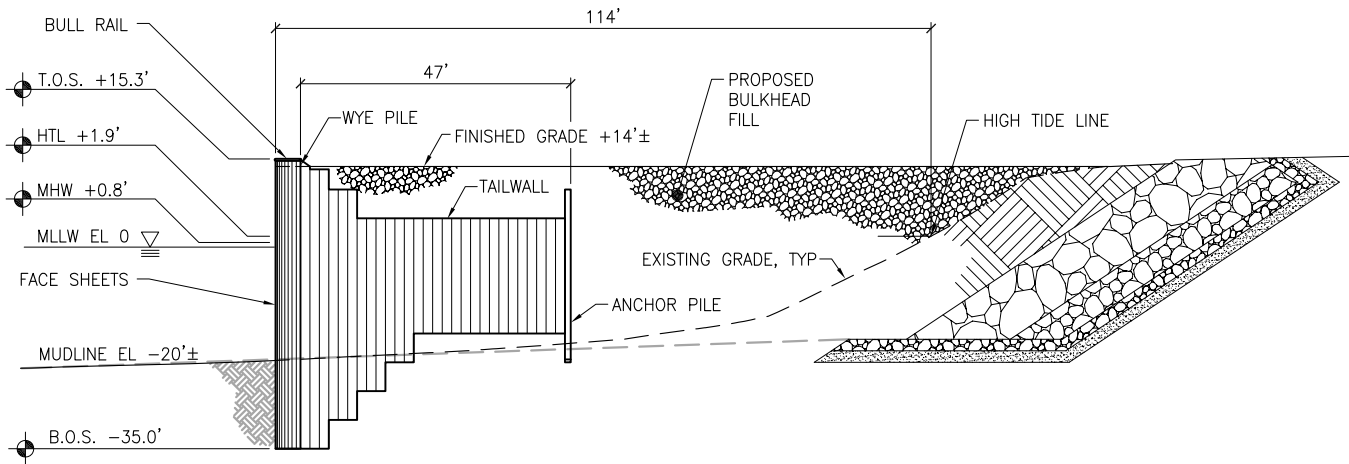
FILE NO.: POA-2012-180

**DOCK SITE PLAN
NOME MID DOCK**

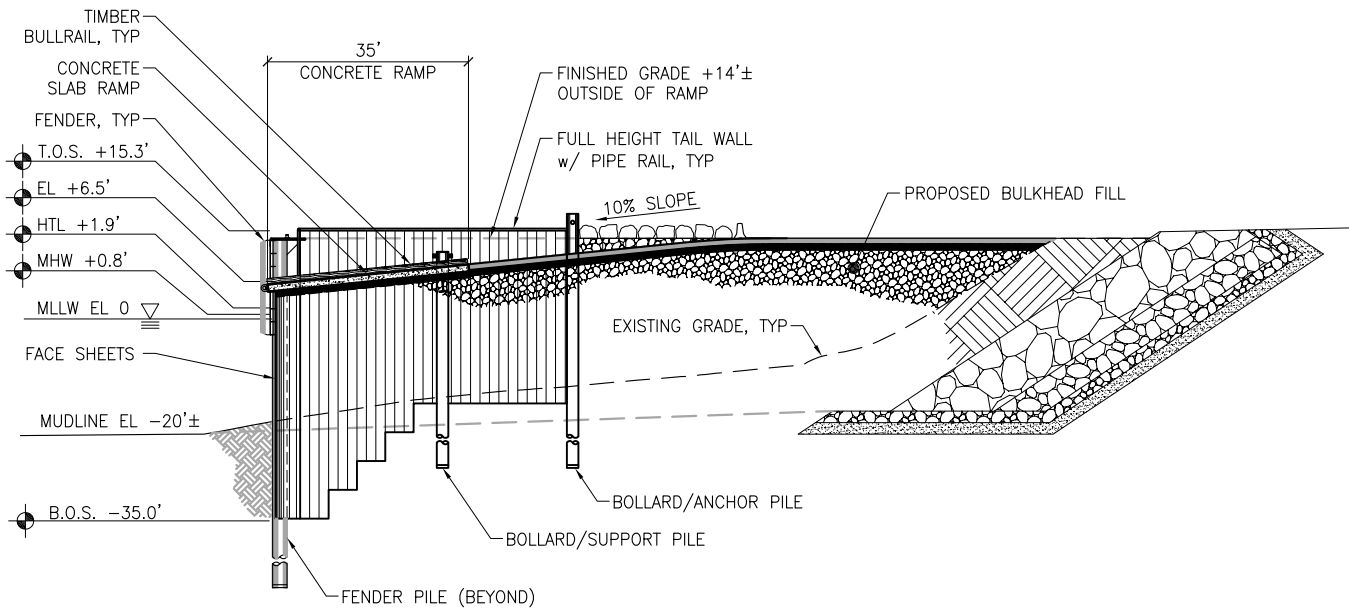
CITY OF NOME
PO BOX 281
NOME, AK 99762

Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

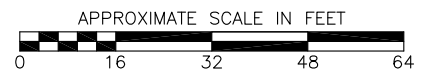
NOME OUTER HARBOR,
NORTON SOUND
T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA



TYPICAL TAILWALL AND FILL SECTION A-A



RAMP SECTION B-B



PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK
WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

FILE NO.: POA-2012-180

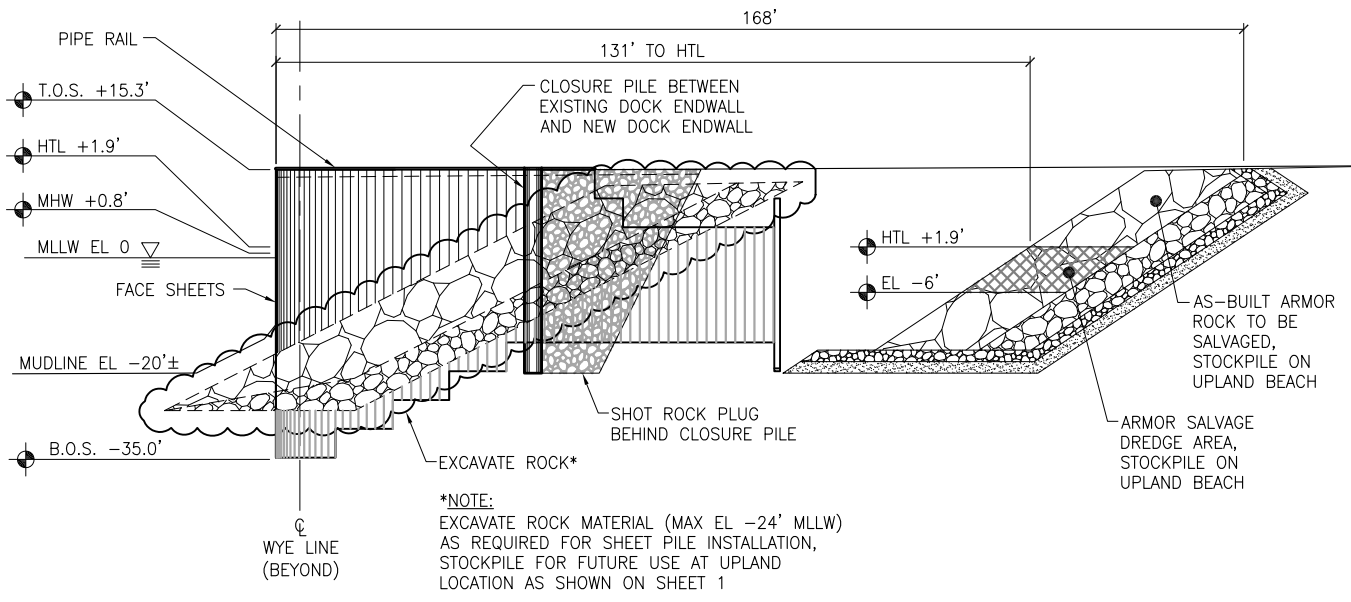
TAILWALL & RAMP SECTIONS NOME MID DOCK

CITY OF NOME
PO BOX 281
NOME, AK 99762

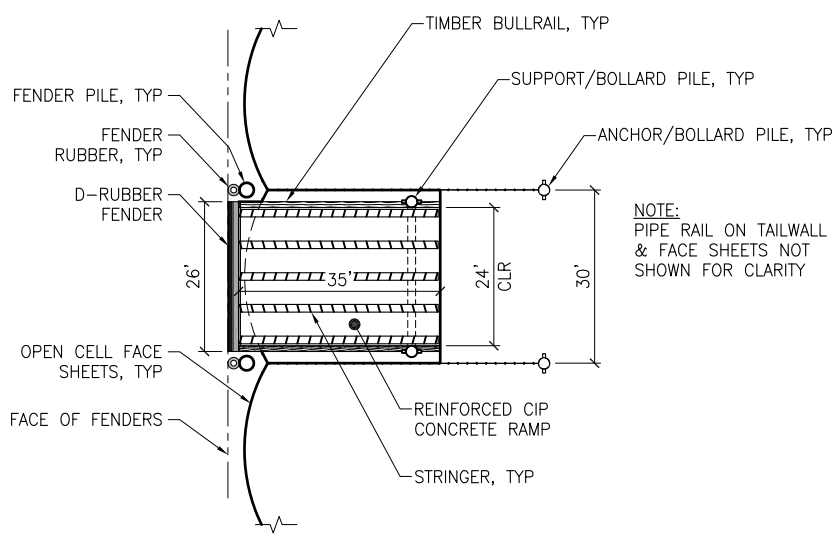
Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

NOME OUTER HARBOR,
NORTON SOUND
T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA

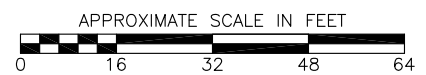
FEB 22, 2013 SHEET 4 of 8



ENDWALL SECTION C-C



RAMP LAYOUT PLAN



PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

FILE NO.: POA-2012-180

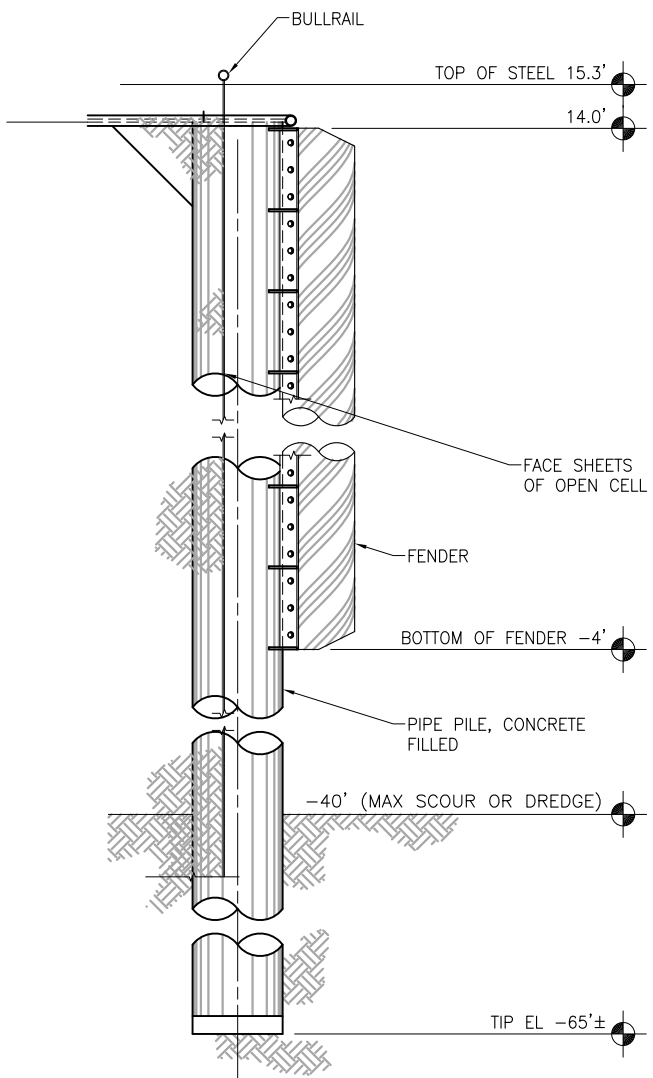
ENDWALL SECTION C-C & RAMP LAYOUT PLAN NOME MID DOCK

CITY OF NOME
PO BOX 281
NOME, AK 99762

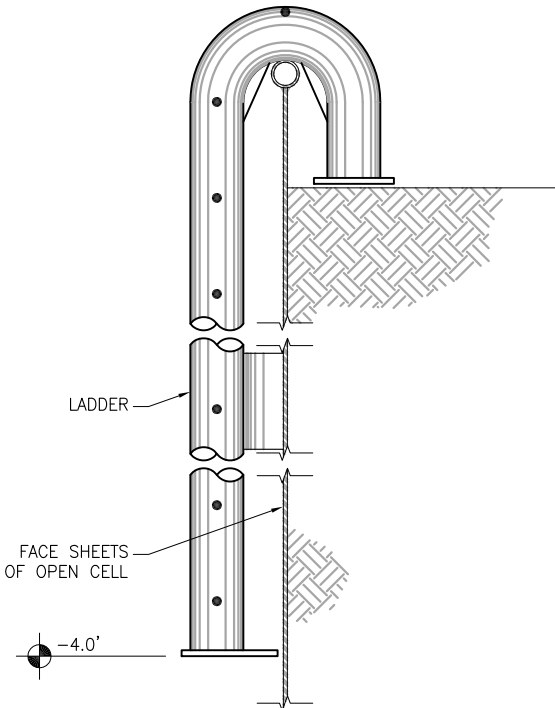
Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

NOME OUTER HARBOR,
NORTON SOUND

T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA



FENDER ELEVATION
NTS 16 LOCATIONS



LADDER DETAIL
NTS 7 LOCATIONS

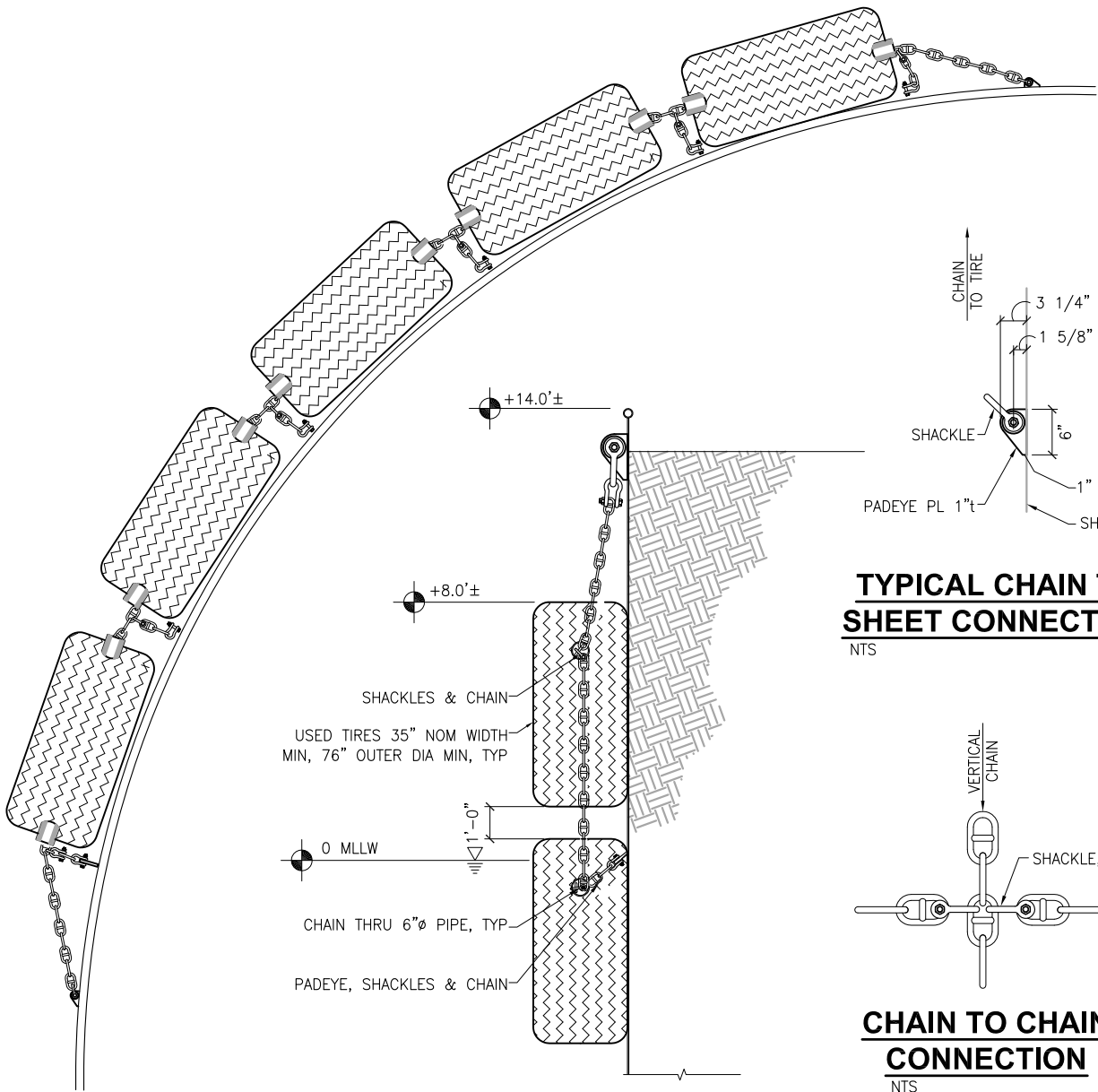
PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK
WITH LOADING RAMP
TIDAL DATUM: MLLW= 0.0'
ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED
LAT/LON: 64.4951/-165.4383
FILE NO.: POA-2012-180

**FENDER & LADDER
DETAILS
NOME MID DOCK**

CITY OF NOME
PO BOX 281
NOME, AK 99762

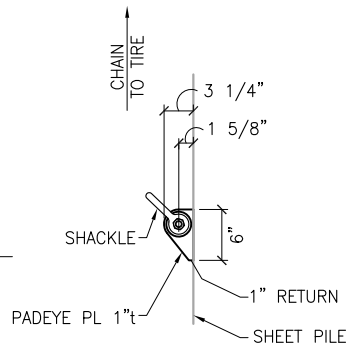
Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

NOME OUTER HARBOR,
NORTON SOUND
T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA

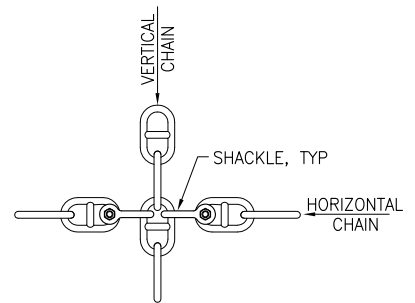


TIRE CURTAIN PLAN
NTS

**CURTAIN TIRE FENDER
SIDE ELEVATION**
NTS



**TYPICAL CHAIN TO
SHEET PILE CONNECTION**
NTS



**CHAIN TO CHAIN
CONNECTION**
NTS

PROPOSED ACTIVITY:
CONSTRUCT BULKHEAD FILL DOCK
WITH LOADING RAMP

TIDAL DATUM: MLLW= 0.0'

ADJACENT OWNERS:
NONE, CAUSEWAY CITY OWNED

LAT/LON: 64.4951/-165.4383

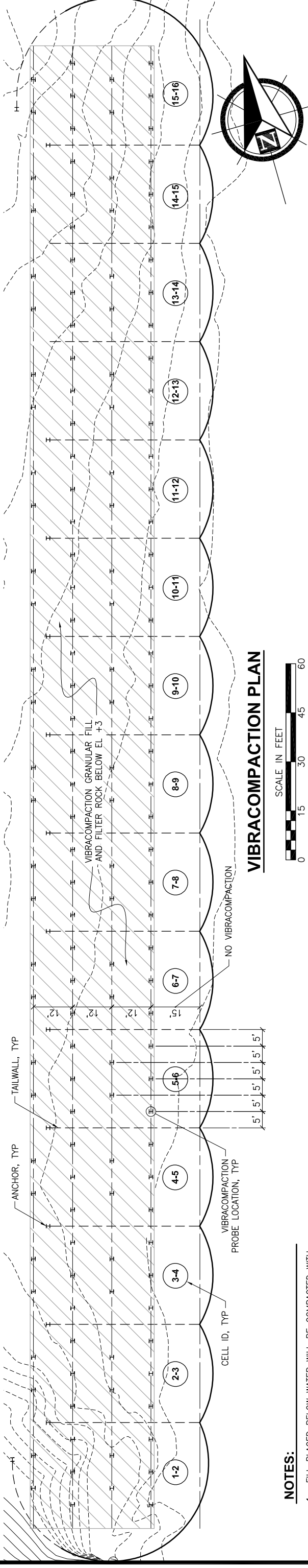
FILE NO.: POA-2012-180

**REMOVABLE TIRE
CURTAIN DETAILS
NOME MID DOCK**

CITY OF NOME
PO BOX 281
NOME, AK 99762

Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

NOME OUTER HARBOR,
NORTON SOUND
T 11S, R 34W, SEC 35
KATEEL RIVER MERIDIAN,
NOME, ALASKA



VIBRACOMPACTION PLAN

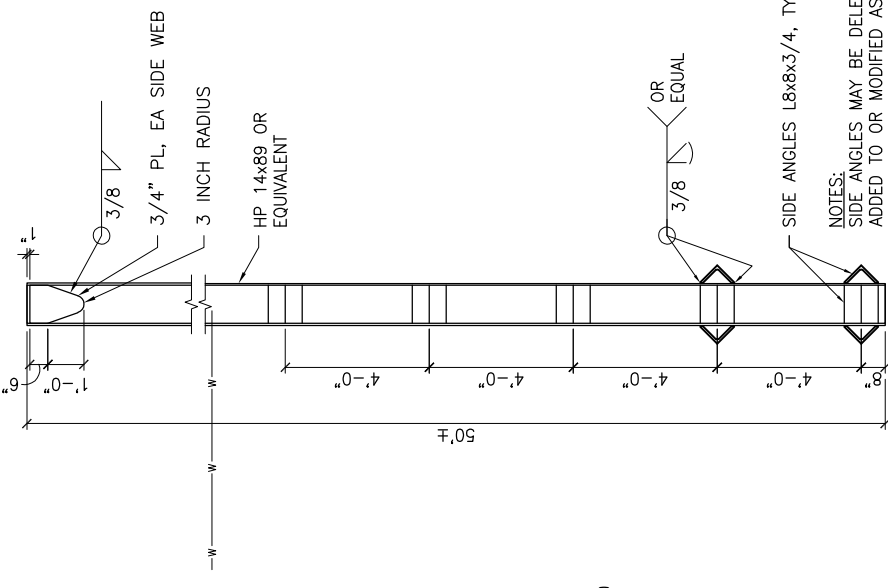


NOTES:

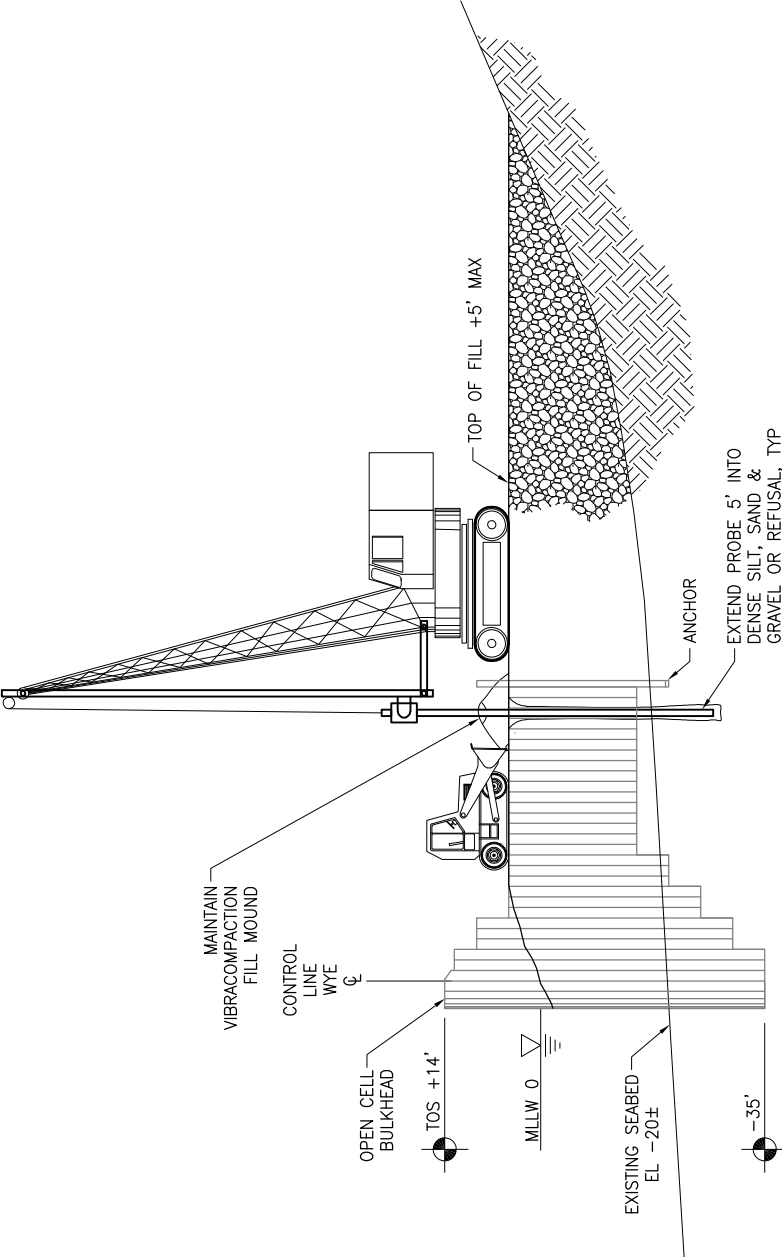
1. FILL PLACED BELOW WATER WILL BE COMPACTED WITH VIBRACOMPACTION.
2. PERFORM VIBRACOMPACTION AS DESCRIBED AT THE INDICATED LOCATIONS.
3. QUALITY CONTROL WILL BE MONITORED BY FILL VOLUMES ADDED AT VIBRACOMPACTION PROBE LOCATIONS.

VIBRACOMPACTION PROCEDURE:

1. MOUND VIBRACOMPACTION FILL OVER PROBE AT EACH LOCATION AND MAINTAIN 4 FOOT HIGH MOUND OVER THE GRADE. VIBRACOMPACTION FILL REQUIRED IS ASSUMED AT 7 CUBIC YARDS PER HOLE.
2. ADVANCE PROBE TO WITHIN 10 FEET OF BASE OF NEW FILL MATERIAL.
3. ADVANCE PROBE AT RESONANT FREQUENCY (APPROXIMATELY 15 Hz) TO 5 FEET BELOW BASE OF NEW FILL MATERIAL (INTO DENSE SANDS OR STIFF CLAYS) OR REFUSAL. REFUSAL SHALL BE CONSIDERED WHEN PROBE SLOWS TO 30 SECONDS PER FOOT FOR THE LAST FOOT.
4. RETRACT PROBE TO THE SURFACE.
5. ADVANCE PROBE AS IN 2 AND 3.
6. RETRACT PROBE TO ONE-HALF THE DISTANCE TO THE SURFACE.
7. ADVANCE PROBE AS IN 2 AND 3.
8. REMOVE PROBE. FILL DEPRESSIONS WITH GRANULAR FILL AND PROOF ROLL SURFACE WITH A 10 TON MINIMUM VIBRATORY ROLLER.
9. REMOVE EXCESS VIBRACOMPACTION FILL AND RELOCATE MATERIAL TO NEXT PROBE.
10. LAYER COMPACT FILL ABOVE VIBRACOMPACTION FILLS.



VIBRACOMPACTION PROBE
NTS



PROBE DETAILS
NTS

PND Engineers, Inc. is not responsible for safety programs, methods or procedures of operation, or the construction of the design shown on these drawings. Where specifications are general or not called out, the specifications shall conform to standards of industry. Drawings are for use on this project only, and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

REV	DATE	DESCRIPTION

NOME MID DOCK

Permit: POA-2012-180
Waterway: Norton Sound
Applicant: Port of Nome
Agent: PND Engineers, Inc.

1506 West 36th Avenue
Anchorage, Alaska 99503
Phone: 907.561.1011
Fax: 907.563.4220
www.pndengineers.com



CITY OF NOME HARBOR IMPROVEMENTS

MID DOCK

VIBRACOMPACTION PLAN & DETAILS

DESIGNED BY:	SD	DATE:	9/11/12
CHECKED BY:	GH	PROJECT NO.:	111011
SHEET NO.:		8	
OF		8	

95% REVIEW
11/11/12

OPEN CELL® AND OPEN CELL SHEET PILE®
ARE REGISTERED TRADEMARKS OF PND ENGINEERS, INC.
THE OPEN CELL SYSTEM IS PATENTED
PATENT - US 6,715,964 B2
PATENT - US 7,018,141 B2
PATENT - US 7,488,140 B2