

0 50 100 200 300 400 500 600 Feet



STERN MOORING
STERN BREAST
STERN SPRING

LINE LOCATION	LOAD
STERN ROPE	
STERN BREAST	
STERN SPRING	

LINE LOCATION	LOAD
BOW ROPE	
BOW BREAST	
BOW SPRING	



OVERALL LENGTH - FT = (M)

DESIGN VESSEL:
 SKT = _____ TON
 LOA = _____ FT or (_____ M)
 BEAM = _____ FT or (_____ M)
 DESIGN DRAFT = _____ FT or (_____ M)
 GROSS UNDERDECK CLEARANCE = _____ FT or (_____ M)
 MAXIMUM DREDGED DEPTH = _____ FT or (_____ M)

WIND LATERAL AREA, SF, (m²)
 (FULL LOAD, NON-BALLAST CONDITION)
 SF = (_____ M)

WIND FRONT AREA, SF, (m²)
 (FULL LOAD, NON-BALLAST CONDITION)
 SF = (_____ M)

24" Ø PIPE BOLLARD
 (8-PLACES)

LARGE FENDER,
 APPROXIMATELY
 8'-11" x 16'-ft

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

12'-FT

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

FT = (M)

ANCHORED W/ 2" Ø BOLTS, TYP. CAPACITY = 100 TONS

LARGE BITT (EST. CAPACITY = 100 TONS)

CONCRETE PIER

OPEN TO WATER

EACH BOLLARD ANCHORED W/ (8) 1 1/4" ASPT BOLTS, TYP. (EST. CAPACITY = 100 TONS)

WIND LATERAL AREA, SF, (m²)
 (FULL LOAD, NON-BALLAST CONDITION)
 SF = (_____ M)

WIND FRONT AREA, SF, (m²)
 (FULL LOAD, NON-BALLAST CONDITION)
 SF = (_____ M)

50

100

200

300

400

500

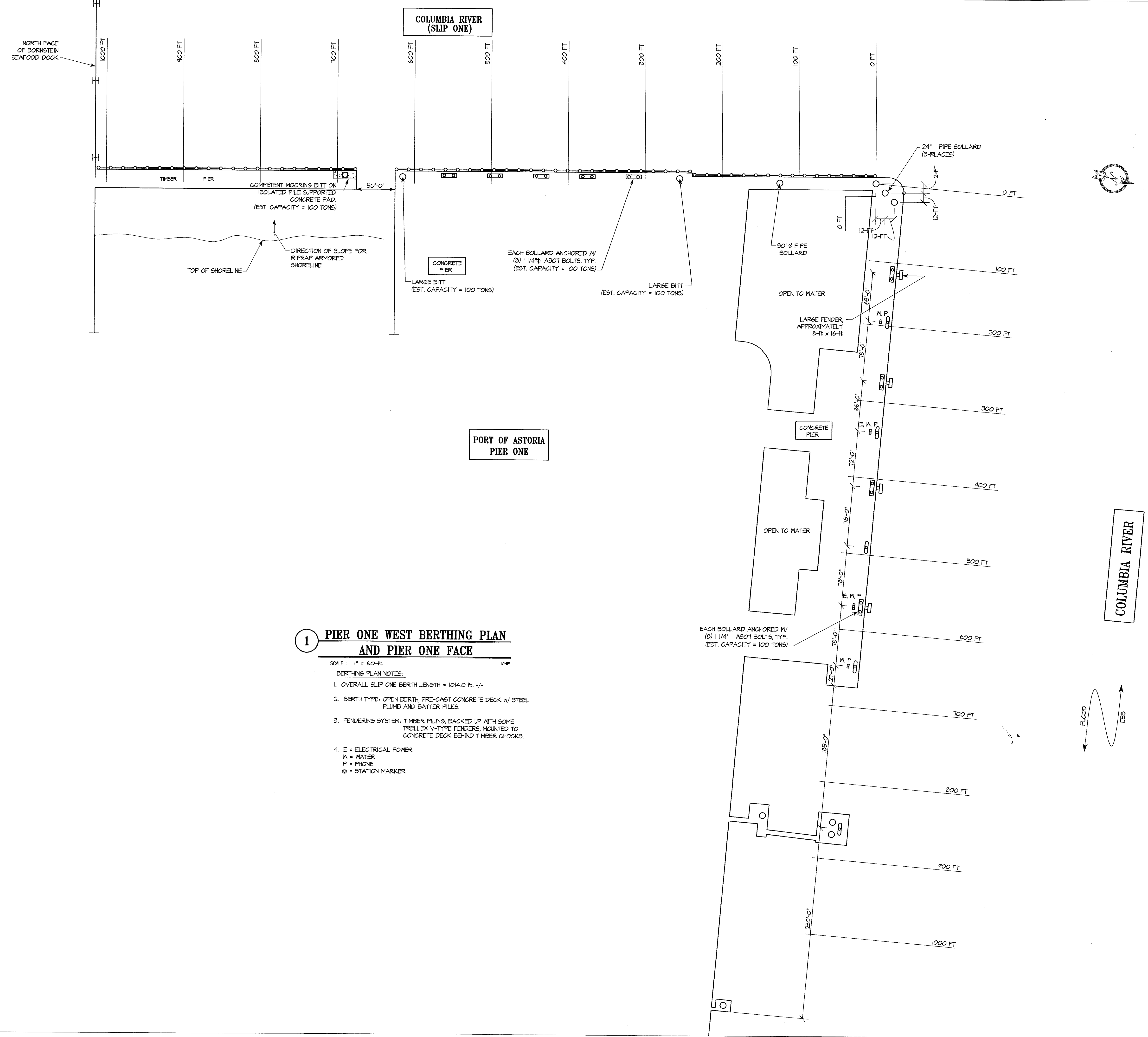
600

Feet



W/ STEEL
 SOME ATTACHED TO CHOCKS.

DORIA



**PORT OF ASTORIA
PIER ONE**

**1 PIER ONE WEST BERTHING PLAN
AND PIER ONE FACE**

- SCALE: 1" = 60'-ft
- BERTHING PLAN NOTES:
- OVERALL SLIP ONE BERTH LENGTH = 1014.0 ft, +/-
 - BERTH TYPE: OPEN BERTH, PRE-CAST CONCRETE DECK W/ STEEL PLUMB AND BATTER PILES.
 - FENDERING SYSTEM: TIMBER PILING, BACKED UP WITH SOME TRELLEX V-TYPE FENDERS, MOUNTED TO CONCRETE DECK BEHIND TIMBER CHOCKS.
 - E = ELECTRICAL POWER
W = WATER
P = PHONE
O = STATION MARKER

**PORT OF ASTORIA
PIER ONE WEST &
PIER ONE NORTH
BERTHING PLAN**
Astoria, Oregon USA

PORT OF ASTORIA
One Portway Street
Astoria, Oregon 97103
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Issue/Revision Date:

Drawn By: _____
Designed By: _____
Checked By: _____

**POA
PIER ONE**

MP