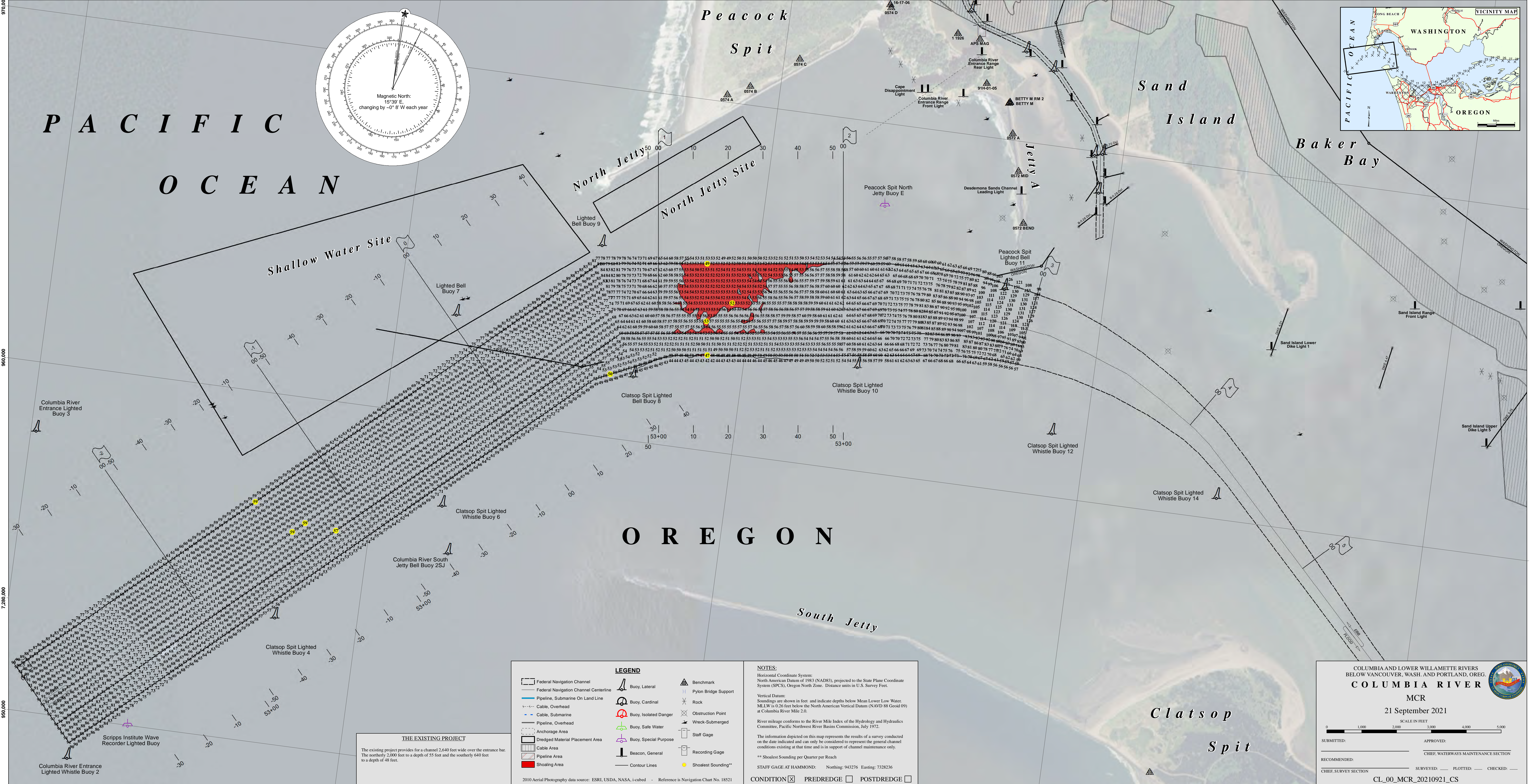
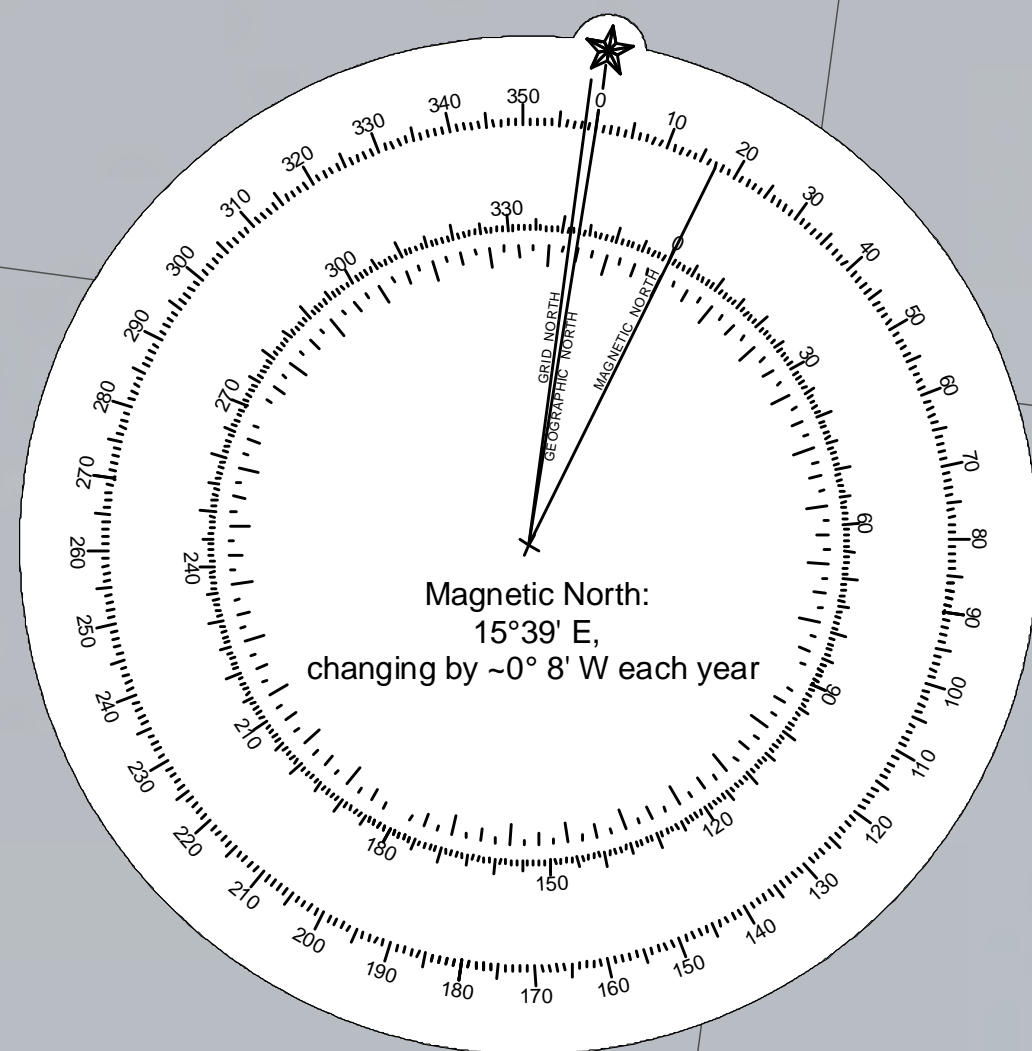


PACIFIC OCEAN



Shallow Water Site

North Jetty Site

OREGON

South Jetty

Clatsop Spit

LEGEND

	Federal Navigation Channel		Buoy, Lateral		Benchmark
	Federal Navigation Channel Centerline		Buoy, Cardinal		Pylon Bridge Support
	Pipeline, Submarine On Land Line		Buoy, Isolated Danger		Rock
	Cable, Overhead		Buoy, Safe Water		Obstruction Point
	Cable, Submarine		Buoy, Special Purpose		Wreck-Submerged
	Pipeline, Overhead		Beacon, General		Staff Gage
	Anchorage Area		Recording Gage		Shoalest Sounding**
	Dredged Material Placement Area				
	Cable Area				
	Pipeline Area				
	Shoaling Area				

2010 Aerial Photography data source: ESRI, USDA, NASA, i-cubed - Reference is Navigation Chart No. 18521

NOTES:
Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Oregon North Zone. Distance units in U.S. Survey Feet.
Vertical Datum:
Soundings are shown in feet and indicate depths below Mean Lower Low Water. MLLW is 0.26 feet below the North American Vertical Datum (NAVD 88 Geoid 09) at Columbia River Mile 2.0.
River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.
The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general channel conditions existing at that time and is in support of channel maintenance only.
** Shoalest Sounding per Quarter per Reach
STAFF GAGE AT HAMMOND: Northing: 943276 Easting: 7328236

CONDITION PREDREDGE POSTDREDGE

THE EXISTING PROJECT
The existing project provides for a channel 2,640 feet wide over the entrance bar. The northerly 2,000 feet to a depth of 55 feet and the southerly 640 feet to a depth of 48 feet.

COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.
COLUMBIA RIVER
MCR
21 September 2021

SCALE IN FEET
0 1,000 2,000 3,000 4,000 5,000

SUBMITTED: _____ APPROVED: _____
RECOMMENDED: _____ CHIEF, WATERWAYS MAINTENANCE SECTION
CHIEF, SURVEY SECTION _____ SURVEYED: _____ PLOTTED: _____ CHECKED: _____
CL_00_MCR_20210921_CS