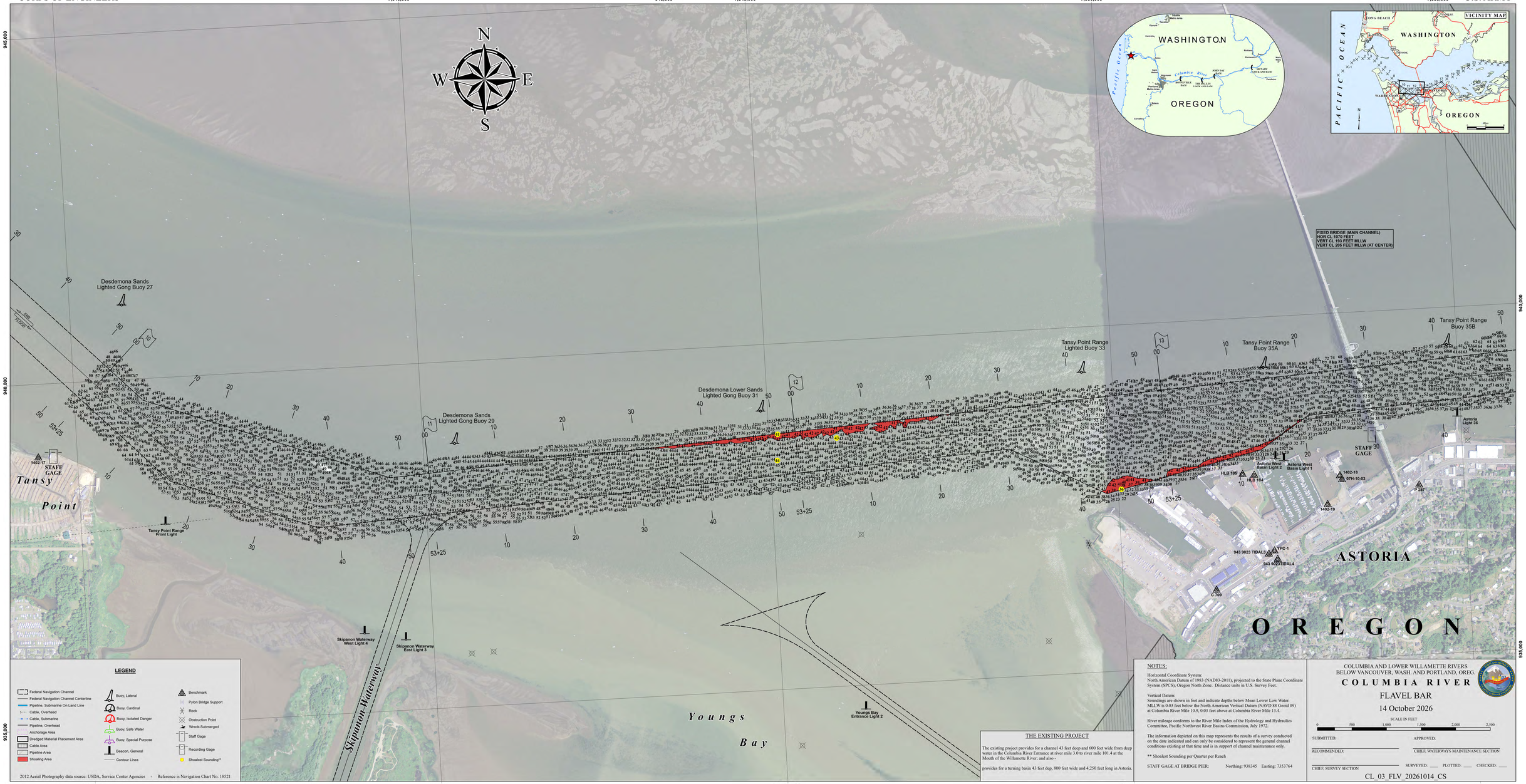
CORPS OF ENGINEERS

U.S. ARMY



LEGEND

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

2012 Aerial Photography data source: USDA, Service Center Agencies - Reference is Navigation Chart No. 18521

NOTES:

Horizontal Coordinate System:
North American Datum of 1983 (NAD83-2011), 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 0.03 feet below the North American Vertical Datum (NAVD 88 Geoid 09) at Columbia River Mile 10.9, 0.03 feet above at Columbia River Mile 13.4.

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 BRIDGE PIER: Northing: 938345 Easting: 7353764

THE EXISTING PROJECT

The existing project provides for a channel 43 feet deep and 600 feet wide from deep water in the Columbia River Entrance at river mile 3.0 to river mile 101.4 at the Mouth of the Willamette River; and also -

provides for a turning basin 43 feet dep, 800 feet wide and 4,250 feet long in Astoria.

COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.

COLUMBIA RIVER

FLAVEL BAR

14 October 2026

SCALE IN FEET

0 500 1,000 1,500 2,000 2,500

SUBMITTED: APPROVED:

RECOMMENDED: CHIEF, WATERWAYS MAINTENANCE SECTION

CHIEF, SURVEY SECTION SURVEYED: ____ PLOTTED: ____ CHECKED: ____

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