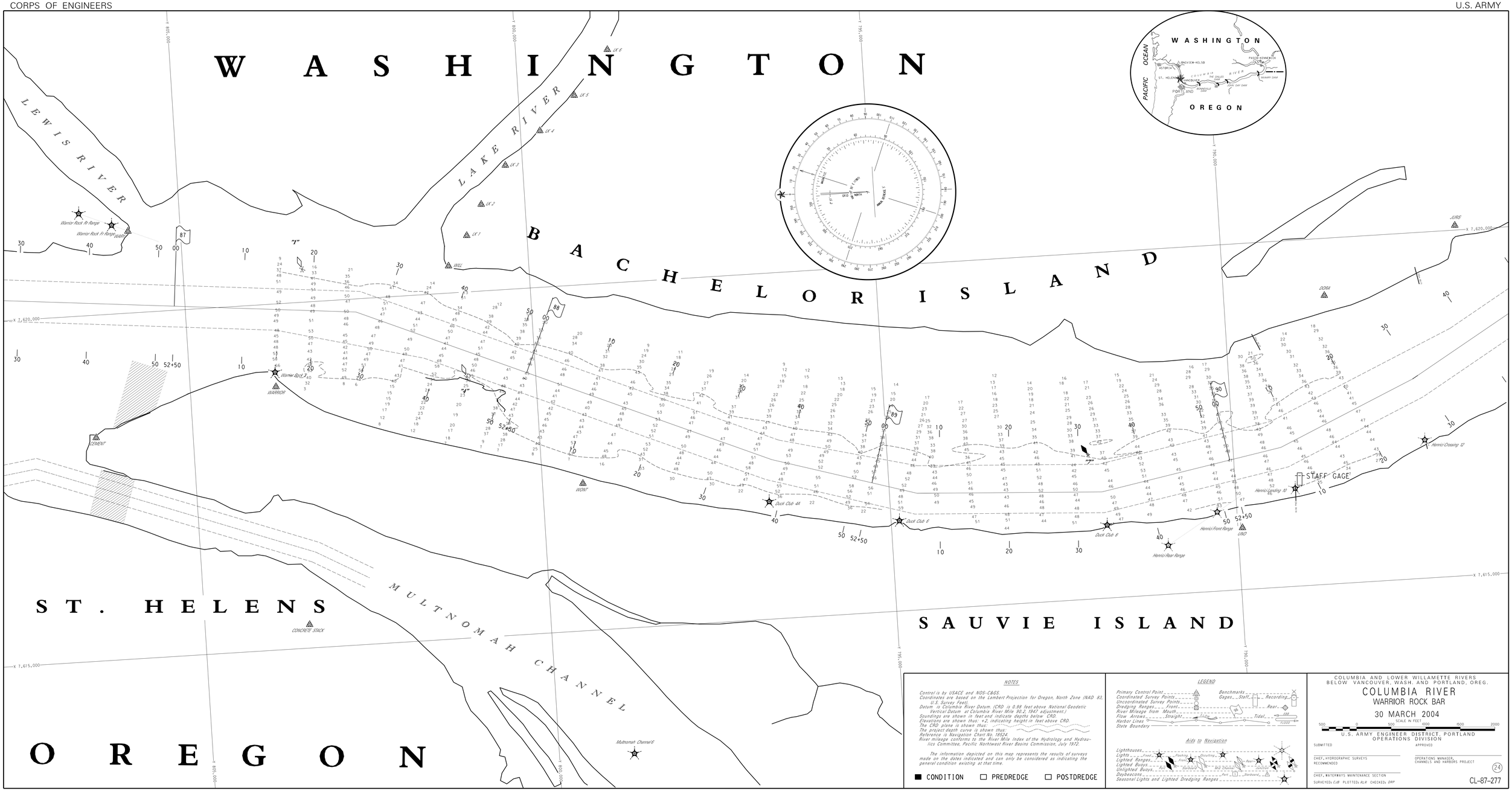

NOTES

Control is by USACE and NOS-C&GS.
Coordinates are based on the Lambert Projection for Oregon, North Zone (NAD 93, U.S. Survey Feet).
Datum is Columbia River Datum (CRD is 0.98 feet above National Geodetic Vertical Datum at Columbia River Mile 90.2, 1947 adjustment.)
Soundings are shown in feet and indicate depths below CRD.
Elevations are shown thus: +2 indicating height in feet above CRD.
The CRD plane is shown thus:
The project depth curve is shown thus:
Reference is Navigation Chart No. 18524.
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 surveys made on the dates indicated and can only be considered as indicating the general condition existing at that time.

■ CONDITION ☐ PREDREDGE ☐ POSTDREDGE

LEGEND

Primary Control Point
Coordinated Survey Points
Uncoordinated Survey Points
Dredging Ranges — Front, Rear
River Mileage from Mouth
Flow Arrows — Straight, Tidal
Harbor Lines
State Boundary
Benchmarks
Gages — Staff, Recording

Aids to Navigation

Lighthouses
Lights — Fixed, Flashing, Occulting
Lighted Ranges — Front, Rear
Lighted Buoys — Red, Black, Red Nun, Black Can, Lighted Bell, Lighted Gong, Lighted Whistle
Unlighted Buoys — Port, Starboard
Daybeacons
Seasonal Lights and Lighted Dredging Ranges

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

COLUMBIA RIVER

WARRIOR ROCK BAR

30 MARCH 2004

SCALE IN FEET
500 0 500 1000 1500 2000

U.S. ARMY ENGINEER DISTRICT, PORTLAND
OPERATIONS DIVISION

SUBMITTED
CHIEF, HYDROGRAPHIC SURVEYS RECOMMENDED
CHIEF, WATERWAYS MAINTENANCE SECTION

APPROVED
OPERATIONS MANAGER, CHANNELS AND HARBORS PROJECT

SURVEYED: CJB PLOTTED: ALB CHECKED: DRP

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CL-87-277