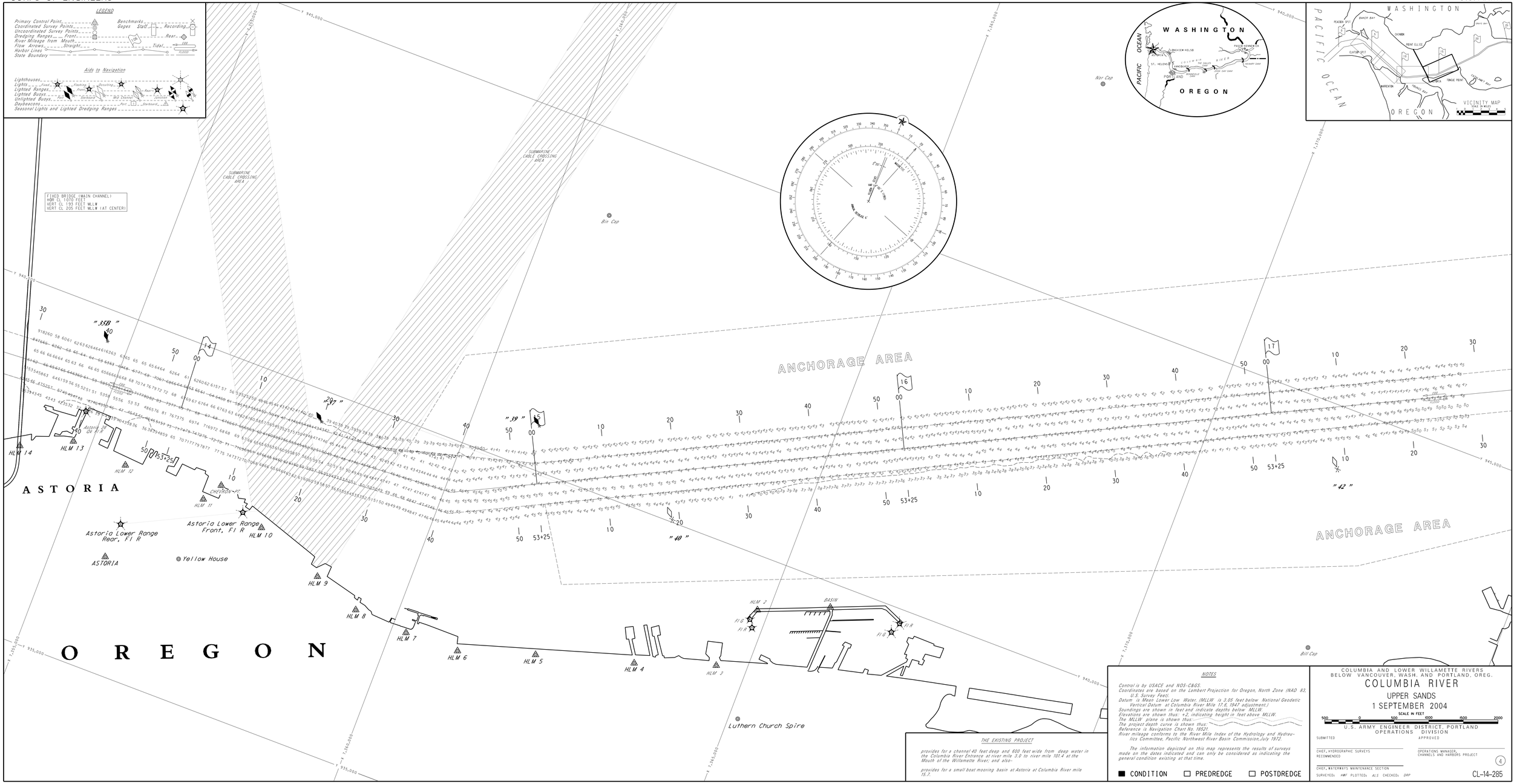
LEGEND
Primary Control Point
Coordinated Survey Points
Uncoordinated Survey Points
Dredging Ranges
River Mileage from Mouth
Flow Arrows
Harbor Lines
State Boundary
Benchmarks
Gages
Staff
Recording
Front
Rear
Straight
Tidal
Aids to Navigation
Lighthouses
Lights
Fixed
Flashing
Occulting
Lighted Ranges
Lighted Buoys
Unlighted Buoys
Daybeacons
Seasonal Lights and Lighted Dredging Ranges
Port
Starboard
Preferred Channel
Bell Buoy
Gong Buoy
WASHINGTON
OREGON
PACIFIC OCEAN
COLUMBIA RIVER
PORTLAND
VANCOUVER
ST. HELENS
LONGVIEW-KELSO
PASCO-KENNEWICK
THE DALLES
BONNEVILLE DAM
JOHN DAY DAM
McNARY DAM
PACIFIC OCEAN
WASHINGTON
OREGON
PEARSON SPIT
BAKER BAY
CLIFTON SPIT
POINT ELLIOTT
CLATSOP SPIT
WARRENTON
FRANCIS HILL
FORT STEVENS
CHINOOK POINT
GRAYS BAY
GRAYS RIVER
VICINITY MAP
SCALE IN MILES
FIXED BRIDGE (MAIN CHANNEL)
HOR CL 1070 FEET
VERT CL 193 FEET MLLW
VERT CL 205 FEET MLLW (AT CENTER)
SUBMARINE CABLE CROSSING AREA
SUBMARINE CABLE CROSSING AREA
ANCHORAGE AREA
ANCHORAGE AREA
Nor Cap
Bin Cap
Bill Cap
Yellow House
Luthern Church Spire
ASTORIA
OREGON
"35B"
"39"
"40"
"42"
"37"
HLM 14
HLM 13
HLM 12
HLM 11
HLM 10
HLM 9
HLM 8
HLM 7
HLM 6
HLM 5
HLM 4
HLM 3
HLM 2
BASIN
Astoria Lower Range Rear, Fl R
Astoria Lower Range Front, Fl R
ASTORIA
CHEVRON-PC
Fl G
Fl R
53+25
NOTES
Control is by USACE and NOS-C&GS.
Coordinates are based on the Lambert Projection for Oregon, North Zone (NAD 83, U.S. Survey Feet).
Datum is Mean Lower Low Water (MLLW) is 3.05 feet below National Geodetic Vertical Datum at Columbia River Mile 37.6 (1947 adjustment.)
Soundings are shown in feet and indicate depths below MLLW.
Elevations are shown thus: +2, indicating height in feet above MLLW.
The MLLW plane is shown thus:
The project depth curve is shown thus:
Reference is Navigation Chart No. 18521.
River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basin 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
THE EXISTING PROJECT
provides for a channel 40 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 small boat mooring basin at Astoria at Columbia River mile 15.7.
COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.
COLUMBIA RIVER
UPPER SANDS
1 SEPTEMBER 2004
SCALE IN FEET
500 0 500 1000 1500 2000
U.S. ARMY ENGINEER DISTRICT, PORTLAND
OPERATIONS DIVISION
SUBMITTED
APPROVED
CHIEF, HYDROGRAPHIC SURVEYS RECOMMENDED
OPERATIONS MANAGER, CHANNELS AND HARBORS PROJECT
CHIEF, WATERWAYS MAINTENANCE SECTION
SURVEYED: HWF PLOTTED: ALS CHECKED: DRP
4
CL-14-285