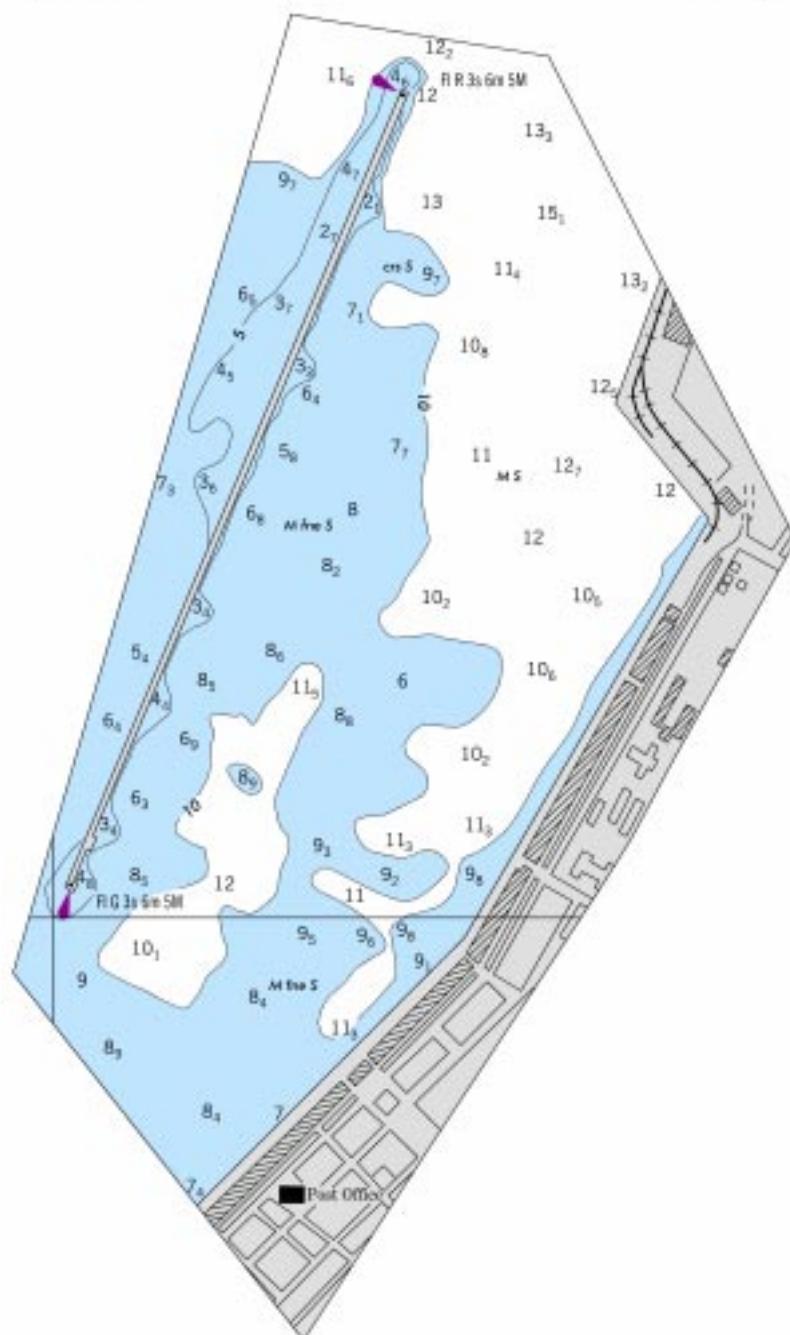


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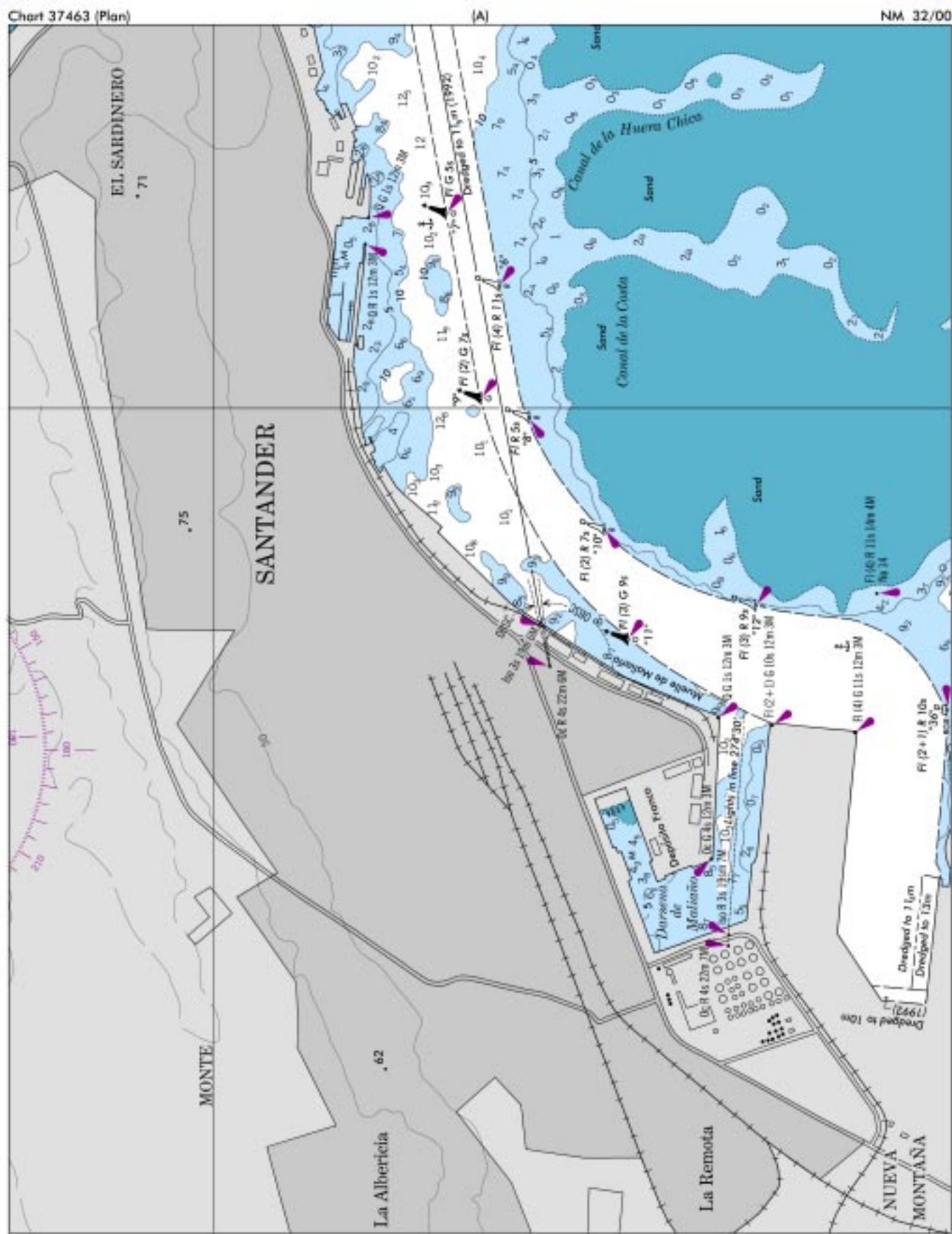
Chart 24203

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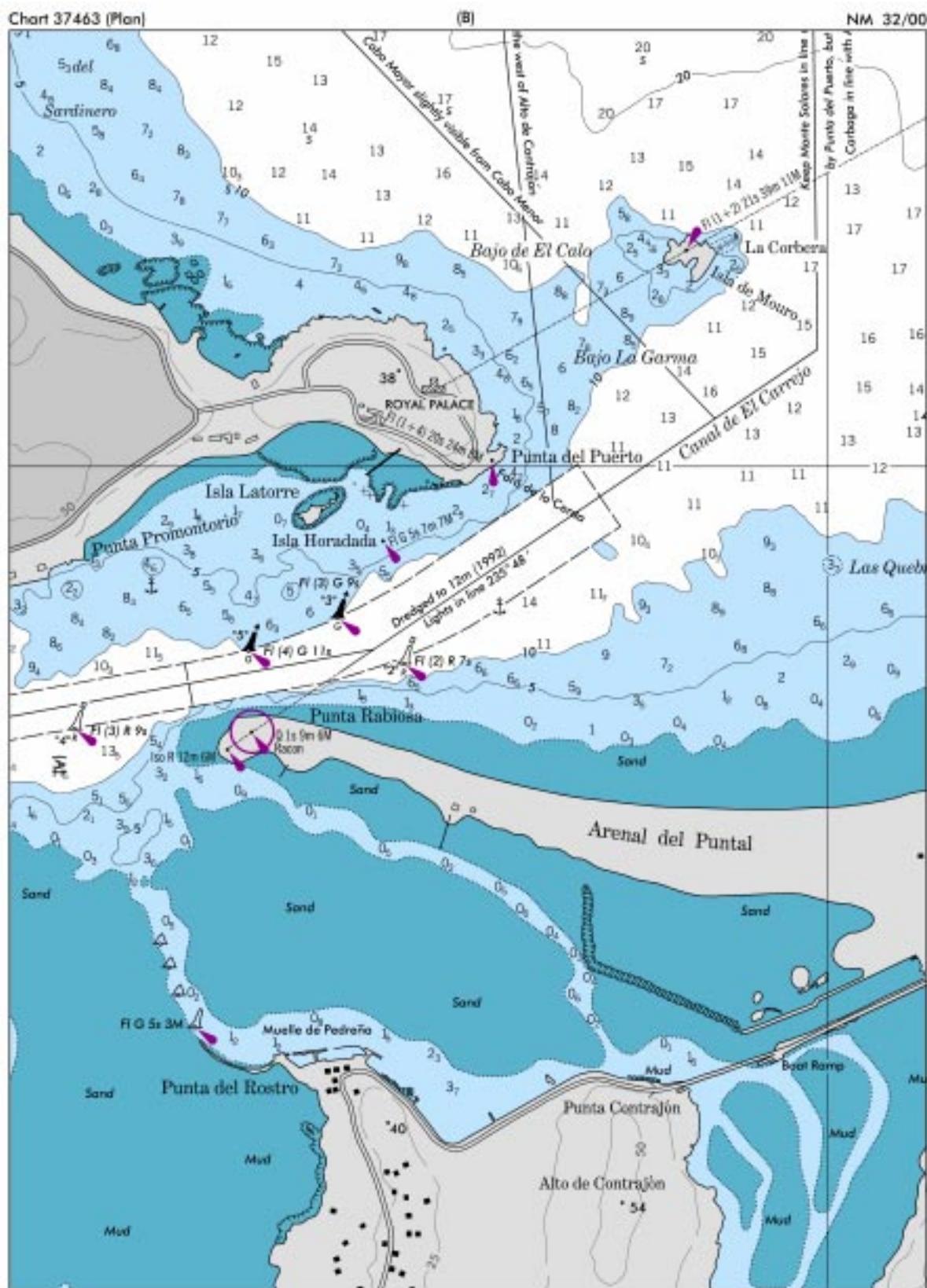
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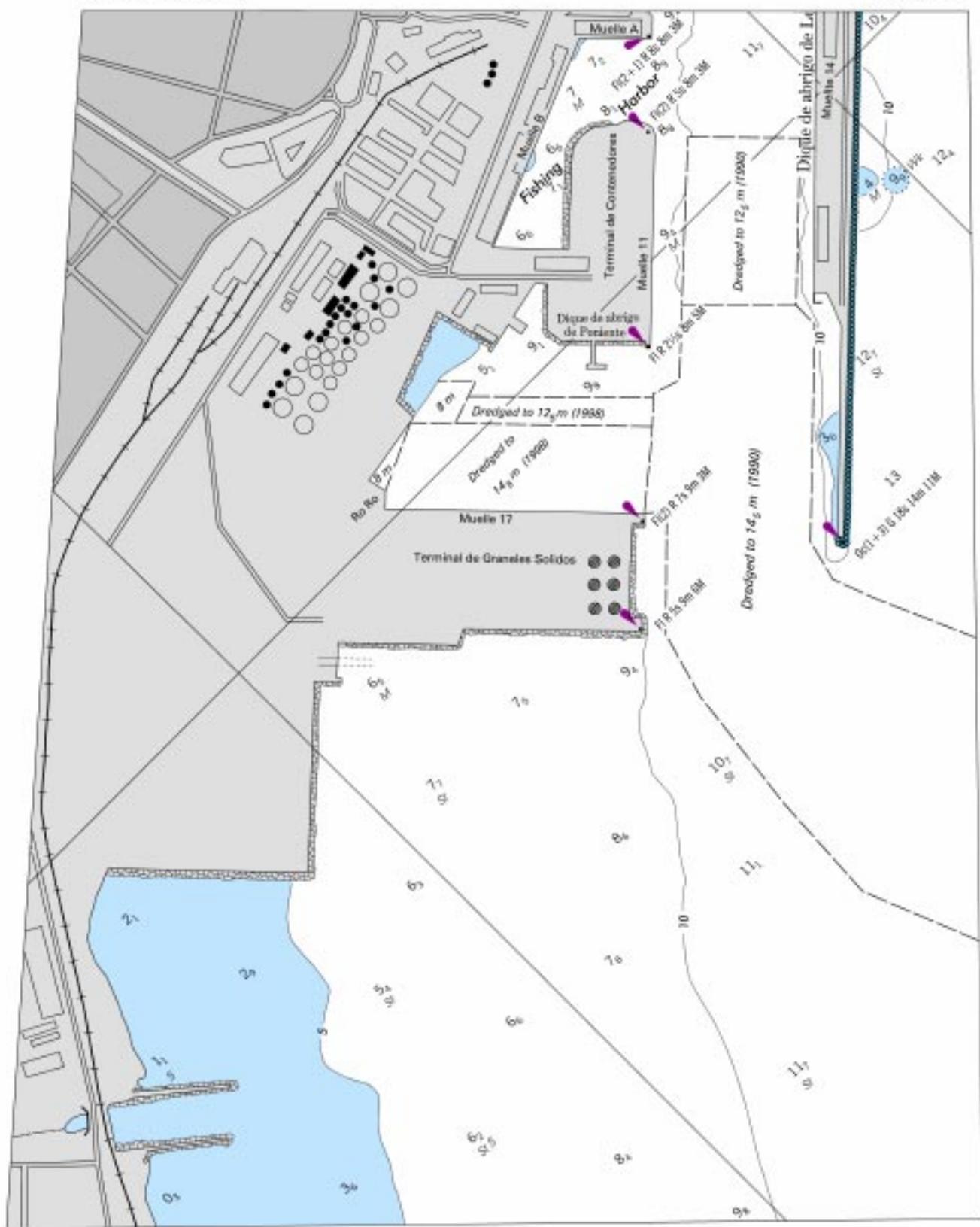


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Chart 52084 (Plan B)

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CHART 11532

NM 32/00

WINNABAY AND GEORGETOWN HARBOR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2000 AND SURVEYS TO JUN 2000								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (VALU. MILES)	DEPTH MLLW FEET
ENTRANCE CHANNEL	27.0	27.8	28.0	28.1	12-00	600	2.0	28
RANGE B	25.2	26.8	26.2	26.4	12-00	600	0.8	28
SOUTH ISLAND BEND	31.1	30.0	29.5	29.5	12-00; 2-00	600	1.2	29
RANGE C	25.2	26.9	26.6	26.4	12-00; 1-00	400	1.4	28
RANGE D	28.7	28.8	28.8	27.4	1-00	300	1.5	27
RANGE E	24.9	26.2	26.0	25.3	9-00; 1-00	300	4.8	27
FRAZIER PT. BEND	29.2	26.5	27.5	26.7	9-11-00; 4-00	300-500	1.0	27
RABBIT ISLAND CHANNEL	28.6	26.0	27.0	25.4	9-11-00; 4-00	300-500	1.8	27
SAMPIT PT. CHANNEL	18.6	21.1	21.1	21.6	5-00	300-700	0.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 11537

NM 32/00

CAPE FEAR RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (VALU. MILES)	DEPTH MLLW FEET
BALDHEAD SHOAL	39.1	38.8	38.7	37.9	2-3-00	500	5.8	48
SMITH ISLAND	20.0	33.4	40.8	41.2	4-00	500	1.0	48
BALDHEAD CASWELL CHANNEL	35.2	40.4	41.0	42.9	12-00	500	0.4	48
SOUTHPORT CHANNEL	41.6	41.0	40.2	40.2	3-00	500	1.0	48
BATTERY ISLAND CHANNEL	44.7	44.7	41.2	40.4	3-00	500	0.5	48
LOWER SWASH	36.0	38.5	39.8	35.7	3-00	400	1.6	38
SNOWS MARSH	36.6	38.2	37.5	36.3	4-00	400	3.1	38
HORSESHOE SHOAL	32.4	37.5	36.8	36.8	4-00	400	1.2	38
REXIES POINT	36.7	38.7	37.7	36.4	4-00	400	1.2	38
LOWER MIDNIGHT	36.3	38.1	39.5	35.2	2-00	400	1.8	38
UPPER MIDNIGHT	36.7	37.9	36.4	34.5	4-00	400	2.7	38
LOWER LILLPUT	36.6	38.0	37.6	35.4	4-00	400	1.9	38
UPPER LILLPUT	36.8	36.7	36.1	37.1	11-00	400	1.9	38
KEG ISLAND	37.2	38.0	37.2	32.4	3-00	400	1.4	38
BIG ISLAND LOWER	37.9	38.0	38.0	34.1	3-00	400	0.8	38
BIG ISLAND UPPER	36.8	36.4	36.2	34.1	3-00	400	0.5	38
LOWER BRUNSWICK	35.6	38.4	36.3	35.0	5-00	400	1.6	38
UPPER BRUNSWICK	36.7	39.3	39.3	36.3	5-00	400	1.0	38
FOURTH EAST JETTY	37.0	37.5	36.8	34.8	5-00	400	1.2	38
BETWEEN CHANNEL	35.3	39.1	38.6	38.8	2-00	500	0.8	38
ANCHORAGE BASIN & APP CHANNEL	32.0	38.6	36.7	32.8	4-00	450-1000	1.3	38
HWY 74-76 TO BATTLESHIP	36.7	32.9	36.2	29.0	12-00	400	0.8	32
BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN	6.6	30.0	32.2	29.4	3-00; 11-00	190-650	-	32
HWY 117 TO HILTON SR	26.1	29.6	31.6	28.7	3-00	200-400	0.5	32
THENCE TO END OF PROJECT AT 34°16'30" N, 77°57'01" W	23.1	23.6A	23.5B	21.9C	6-00	300	1.2	25
TURNING BASIN	24.6	21.0	22.2	18.1	6-00	500	0.1	25

A. EXCEPT FOR SHOALING TO 21.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
B. EXCEPT FOR SHOALING TO 16.4 FEET FOR THE LAST 150 FEET OF THE PROJECT.
C. EXCEPT FOR SHOALING TO 10.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 32/00

CHART 18521

NM 32/00

COLUMBIA RIVER CHANNEL DEPTHS ENTRANCE TO MILLER SANDS RANGE TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
NAME OF CHANNEL	* SEE FOOTNOTE				DATE OF SURVEY	PROJECT DIMENSIONS	
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	RIGHT INSIDE QUARTER		WIDTH (FEET)	LENGTH * MILES
ENTRANCE RANGE	58	57	55	42	10-99	2640	3.3
SAND ISLAND RANGE (CLATSOP SPOT)	54	55	55	46	10-99	2640	2.2
LOWER DESDEMONA SHOAL	45	45	44	37	5-98; 1-00	600	3.4
UPPER DESDEMONA SHOAL	37	43	47	46	1-00	600	3.7
TANBY POINT TURN AND RANGE	39	40	43	36	5-00	600	4.7
ASTORIA RANGE	39	39	39	40	5-00	600	2.7
TONGUE POINT CHANNEL	38	41	42	42	5-00	600	2.2
HARRINGTON POINT RANGE	36	46	49	36	4-5-00	600	2.6
MILLER SANDS RANGE	34	43	41	35	4-00	600	2.2

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 18523

NM 32/00

COLUMBIA RIVER CHANNEL DEPTHS MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)				DATE OF SURVEY	PROJECT DIMENSIONS	
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	RIGHT INSIDE QUARTER		WIDTH FEET	LENGTH STAT. MILES
MILLER SANDS RANGE	34	43	41	35	4-00	600	2.2
PILLAR ROCK LOWER RANGE	38	38	40	38	4-5-00	600	3.0
PILLAR ROCK UPPER RANGE	25	41	40	38	5-00	600	1.9
WELCH ISLAND REACH	40	39	39	32	5-00	600	3.2
SKAMOKAWA CHANNEL	31	41	37	32	5-00	600	3.3
STEAMBOAT REACH	47	47	45	44	5-00	600	1.4
PUGET ISLAND RANGE AND TURN	38	41	40	40	5-00	600	3.5
WAUNA RANGE	36	41	39	38	4-5-00	600	2.2
DRISCOLL RANGE	38	41	41	42	4-00	600	1.7
WESTPORT TURN AND RANGE	40	40	40	41	4-00	600	2.0
WESTPORT CHANNEL	38	38	39	38	4-00	600	2.4
EUREKA LOWER CHANNEL	45	44	44	44	4-00	600	2.1
EUREKA UPPER CHANNEL	42	43	42	41	4-00	600	0.8
OAK POINT CHANNEL	47	47	44	42	4-5-00	600	2.4
GULL I TURN AND CHANNEL	43	44	41	41	5-00	600	2.2

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 32/00

CHART 18525

NM 32/00

COLUMBIA RIVER CHANNEL DEPTHS SAINT HELENS TURN TO TOMAHAWK BAR							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	RIGHT INSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)
ST. HELENS TURN	44	43	41	38	4-00	600	1.7
WARRIOR ROCK RANGE	38	40	48	40	5-00	600	1.3
DUCK CLUB TURN	38	40	41	42	5-00	600	1.4
HENRICK RANGE	39	38	40	38	5-00	600	2.6
FALES CHANNEL	41	41	48	38	5-00	600	1.1
KNAPP POINT CHANNEL	42	41	48	37	4-00	600	1.8
WILLOW LOWER RANGE	39	39	39	37	4-00	600	2.1
WILLOW UPPER RANGE	41	44	42	44	4-00	600	1.1
MORGAN TURN	40	44	45	48	4-00	600	1.0
MORGAN CHANNEL	45	45	45	46	4-00	600	1.5
VANCOUVER LOWER CHANNEL	47	49	51	49	5-00	500	1.0
VANCOUVER RANGE	42	45	40	38	5-00	500	1.3
VANCOUVER UPPER CHANNEL	43	42	41	39	5-00	500	0.9
VANCOUVER LOWER TURNING BASIN	39	33	38	39	4-00	800	1.0
VANCOUVER UPPER TURNING BASIN	29	24	25	23	4-00	800	0.9
TOMAHAWK BAR	11	15	17	15	3-00	300	3.7

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 18526

NM 32/00

COLUMBIA RIVER CHANNEL DEPTHS MORGAN CHANNEL TO TOMAHAWK BAR							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	RIGHT INSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)
MORGAN CHANNEL	45	46	43	46	4-00	600	1.6
VANCOUVER LOWER CHANNEL	47	48	51	48	5-00	500	1.0
VANCOUVER RANGE	42	43	40	38	5-00	600	1.3
VANCOUVER UPPER CHANNEL	43	42	41	39	5-00	500	0.9
VANCOUVER LOWER TURNING BASIN	39	33	38	39	4-00	800	1.0
VANCOUVER UPPER TURNING BASIN	29	24	25	23	4-00	800	0.9
TOMAHAWK BAR	11	15	17	15	3-00	300	3.7

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 18581

NM 32/00

YACQUINA BAY AND RIVER CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH (FEET)
CHANNEL ENTRANCE 44°36'27"N, 123°56'24"W							
TO FIRST TURN	25	30	25	5-00	400-800	1.3	45-50
THENCE TO TURNING BASIN	21	28	18	6-00; 4-00	300-400	1.3	30
TURNING BASIN	18	24	24	4-00	300-1200	0.3	30
THENCE TO YACQUINA	15	12	12	7-00	200	1.6	18
THENCE TO END OF PROJECT	02A	07	05B	7-00	150	0.7	15

A. SHOAL TO BARE AT 44°36'57.7"N, 123°56'34.2"W.

B. SHOAL TO BARE AT 44°36'42.0"N, 123°56'55.5"W.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 32/00

CHART 18584

NM 32/00

UMPOUA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2000 AND SURVEYS TO MAY 2000						PROJECT DIMENSIONS	
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO LT. 21	18	18	17	9-00; 5-00	290	7.0	25-22
LT. 21 TO REEDSPORT	19	19	18	5-00	290	2.7	22
REEDSPORT TURNING BASIN	25	25	25	5-00	600	0.2	22
LT. 21 TO GARDNER	15	15	11	5-00	290	1.15	22
TURNING BASIN	3	2	2	9-00; 5, 9-00	500	0.2	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 18587

NM 32/00

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2000						PROJECT DIMENSIONS	
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)							
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
ENTRANCE RANGE	39	38	38	9-00; 6-00	—	1.0	47-37
ENTRANCE RANGE AND TURN	38	45	33	9-00	300-1050	0.8	37
INSIDE RANGE	33	38	34	9-00	300	0.8	37
COOS BAY RANGE	34	35	35	9-00; 5-00	300	1.0	37
EMPIRE RANGE	35	35	35	5-00	300	1.0	37
LOWER JARVIS RANGE	36	36	33	5-00	300	0.8	37
JARVIS TURN	36	36	32	5-00	300	0.5	37
UPPER JARVIS RANGE	35	35	34	9-00; 5-00	300	1.0	37
NORTH BEND LOWER RANGE	37	38	37	3-00	400	0.7	37
NORTH BEND RANGE	38	38	37	5-00	400	0.9	37
NORTH BEND UPPER RANGE	36	37	36	5-00	400	0.8	37
LOWER TURNING BASIN	37	37	32	10-00	400-800	0.9	37
FERNDALE LOWER RANGE	34	38	38	3-00	400	0.4	37
FERNDALE TURN	34	38	37	3-00	400	0.2	37
FERNDALE UPPER RANGE	32	37	37	3-00	400	0.7	37
MARSHFIELD RANGE	30	37	36	3-00	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	26	37	38	3-00	150-750	0.8	37
ISTHMUS SLOUGH	19	25	19	4-85	150	2.0	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION