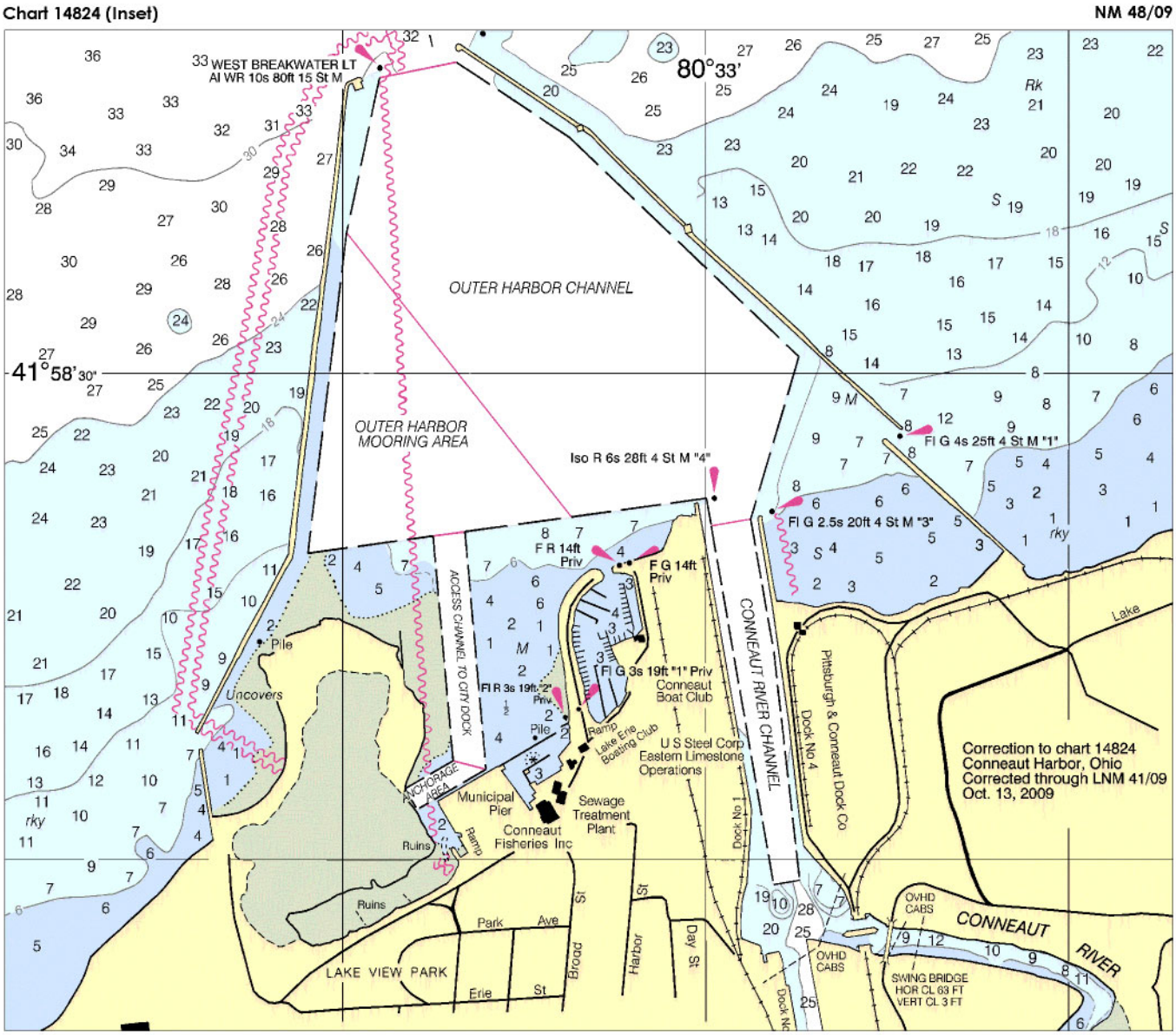
Chart 14824 (Inset)
NM 48/09
WEST BREAKWATER LT
Al WR 10s 80ft 15 St M
80°33'
41°58'30"
OUTER HARBOR CHANNEL
OUTER HARBOR MOORING AREA
Iso R 6s 28ft 4 St M "4"
Fl G 4s 25ft 4 St M "1"
Fl G 2.5s 20ft 4 St M "3"
F R 14ft Priv
F G 14ft Priv
Fl G 3s 19ft "1" Priv
Conneaut Boat Club
Fl R 3s 19ft "2" Priv
ACCESS CHANNEL TO CITY DOCK
CONNEAUT RIVER CHANNEL
Pittsburgh & Conneaut Dock Co
Dock No 4
Dock No 1
Uncovers
Pile
Ramp
Lake Erie Boating Club
U S Steel Corp
Eastern Limestone Operations
ANCHORAGE AREA
Municipal Pier
Sewage Treatment Plant
Conneaut Fisheries Inc
Ruins
LAKE VIEW PARK
Park Ave
Erie St
Broad St
Harbor St
Day St
OVHD CABS
SWING BRIDGE
HOR CL 63 FT
VERT CL 3 FT
CONNEAUT RIVER
Lake
Correction to chart 14824
Conneaut Harbor, Ohio
Corrected through LNM 41/09
Oct. 13, 2009

Chart 74155 NM N48/09

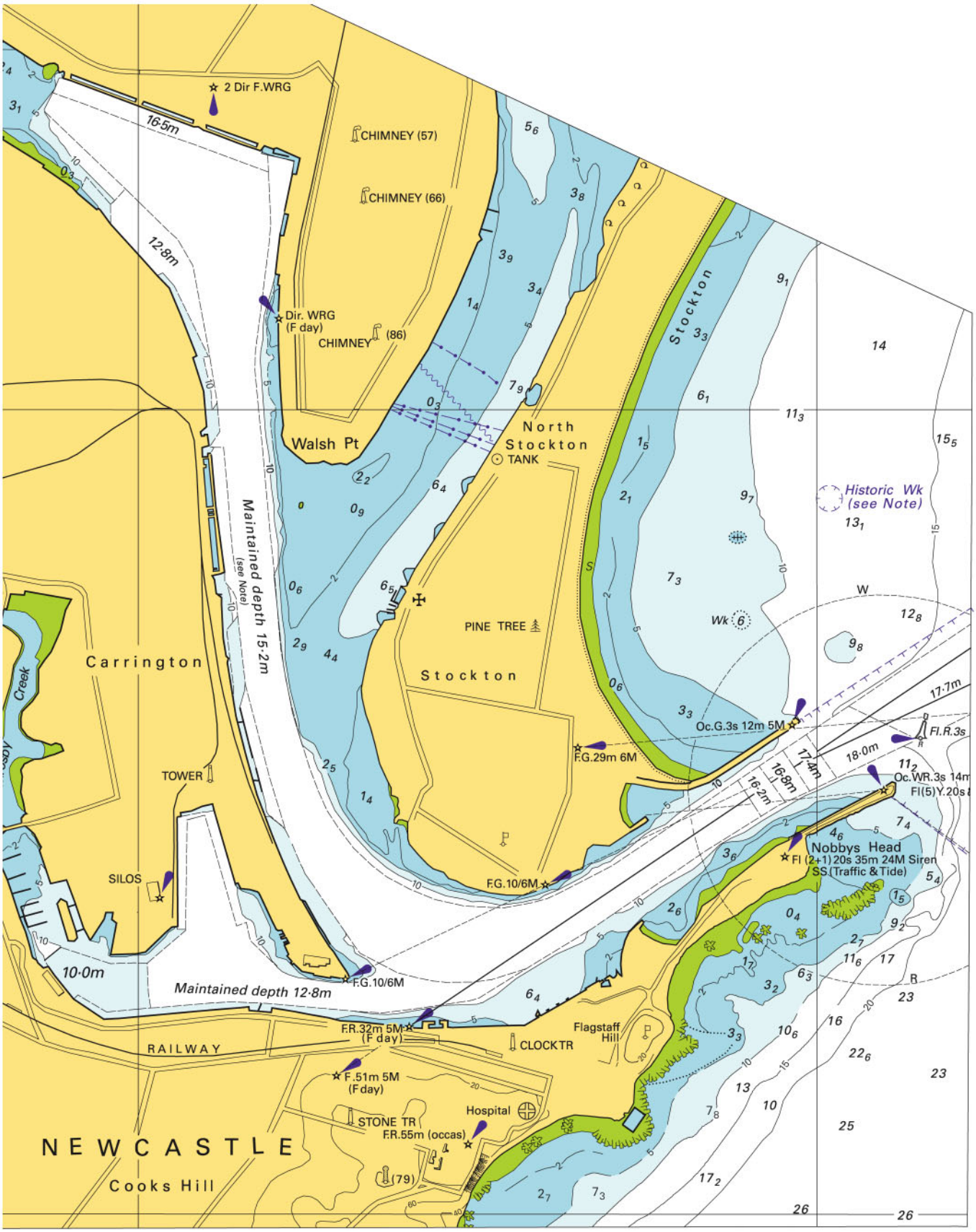

Chart 11346 NM 48/09

BELLE PASS AND BAYOU LAFOURCHE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BELLE PASS REACH	27.0	26.0	25.0	05-09	300	1.1	26.0
PORT FOURCHON REACH	20.0	23.0	23.0	05-09	300	3.0	24.0

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

Chart 11376 NM 48/09

MOBILE BAY AND RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009 AND SURVEYS TO JUL 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
MOBILE BAR CHANNEL	46.1A	47.0	42.2	7-09	600	8.1	47
MOBILE BAY:							
LOWER BAY (TO LIGHT 50)	41.8B	44.8	43.3	7-09	400	13.3	45
UPPER BAY	41.5	43.0	41.9B	7-09	400	15.4	40-45
MOBILE RIVER:							
PINTO ISLAND REACH	34.4	39.3	33.0	7-09	700-775	0.6	40-45
MOBILE CHANNEL	33.5	38.4	36.5	7-09	600	1.8	40
MOBILE TURNING BASIN	35.5B	38.5B	36.8B	7-09	740-1000	0.6	40
BLAKELEY ISLAND REACH	33.8A,C	28.6B	27.4C	7-09	500-1000	1.3	40
ST. LOUIS POINT REACH	18.8	24.1	19.0	1-09	500	0.2	25
CHICKASAW CREEK CHANNEL	15.2	22.6	20.6	1-09	250	3.0	25
ARLINGTON CHANNEL	14.9	15.8	13.9	7-09	150	1.7	27
GARROWS BEND CHANNEL	5.1D	4.7E	5.4F	7-09	150	1.3	27
OCEAN TERMINAL TURNING BASIN	14.8	15.3	12.3	11-08	600	0.1	27
THEODORE SHIP CHANNEL:							
BAY CUT	37.9	39.8	39.0	6-09	400	5.3	40
ANCHORAGE AREA	40.0	40.0	40.0	6-09	300	0.2	40
LAND CUT	40.0	40.0	40.0B	6-09	300	1.7	40
TURNING BASIN	37.4	37.2	34.7	6-09	1400	0.3	40
BARGE CHANNEL	9.5	6.8	8.7	4-09	100	1.2	12

A. EXCEPT FOR SHOALING TO 44.9 IN BEND WIDENING AREA.
B. EXCEPT FOR SHOALING IN BEND WIDENING AREA.
C. EXCEPT FOR SHOALING AT NORTH END OF PROJECT.
D. EXCEPT FOR SHOALING TO 2.1 APPROXIMATELY 266' FROM END OF PROJECT.
E. EXCEPT FOR SHOALING TO 2.8 APPROXIMATELY 266' FROM END OF PROJECT.
F. EXCEPT FOR SHOALING TO 3.1 APPROXIMATELY 266' FROM END OF PROJECT.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11377 NM 48/09

MOBILE BAY AND RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009 AND SURVEYS TO JUL 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
MOBILE BAR CHANNEL	46.1A	47.0	42.2	7-09	600	8.1	47
MOBILE BAY:							
LOWER BAY (TO LIGHT 50)	41.8B	44.8	43.3	7-09	400	13.3	45
UPPER BAY	41.5	43.0	41.9B	7-09	400	15.4	40-45
THEODORE SHIP CHANNEL:							
BAY CUT	37.4	39.8	39.5	6-09	400	5.3	40

A. EXCEPT FOR SHOALING TO 14.9 IN BEND WIDENER AREA.
B. SHOALING IN BEND WIDENING AREA.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11378 (Side A) NM 48/09

PENSACOLA HARBOR AND BAYOU CHICO CHANNELS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
PENSACOLA HARBOR							
BAY CHANNEL	33.0	33.0	32.5	7-09	300	2.7	33
WEST CHANNEL	27.1	27.1	27.4	7-09	300	1.3	33
EAST CHANNEL	32.4	32.2	31.4	7-09	300	0.8	33
HARBOR CHANNEL	26.8	26.7	27.3	7-09	500	0.9	33
BAYOU CHICO CHANNELS							
ENTRANCE CHANNEL	16.9	16.8	14.4	4-09	100	0.9	15
INNER CHANNEL	16.7	13.7	12.9	4-09	75	1.1	14
TURNING BASIN	6.9	9.3	9.3	4-09	500	-	14

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

Chart 11378 (Side A) NM 48/09

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

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 (MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	B24.0	39.4	39.4	C33.4	1-09	A500	3.1	A35
BARRANCAS CHANNEL	47.5	48.7	48.1	47.3	1,7-09	A500	1.7	A35
PICKENS CHANNEL	43.6	45.5	45.5	D45.9	1-09	A500	2.8	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
B. 13.1 FEET ALONG THE CHANNEL EDGE.
C. 23.9 FEET ALONG THE CHANNEL EDGE.
D. EXCEPT FOR A 43 FT OBSTRUCTION REPORTED BY AN NOS SURVEY AT 30°19'57.7" N, 087°16'39.3" W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11380 NM 48/09

MOBILE BAY AND RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009 SURVEYS TO JUL 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
MOBILE BAY:							
LOWER BAY (TO LIGHT 50)	41.8A	44.8	43.3	7-09	400	13.3	45
UPPER BAY	41.5	43.0	41.9B	7-09	400	15.4	40-45
THEODORE SHIP CHANNEL:							
BAY CUT	37.9	39.8	39.0	6-09	400	5.3	40
ANCHORAGE AREA	40.0	40.0	40.0	6-09	300	0.2	40
LAND CUT	40.0	40.0	40.0B	6-09	300	1.7	40
TURNING BASIN	37.4	37.2	34.7	6-09	1400	0.3	40
BARGE CHANNEL	9.5	6.8	8.7	4-09	100	1.2	12

A. SHOALING IS IN BEND WIDENING AREA.
B. ROCK OBSTRUCTIONS REPORTED FROM BUOY "20", CONTINUING FOR APPROXIMATELY 600 FEET EASTWARD. MINIMUM DEPTH OVER ROCKS IS 38 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11382 NM 48/09

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

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 (MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	B24.0	39.4	39.4	C33.4	1-09	A500	3.1	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
B. 13.1 FEET ALONG THE CHANNEL EDGE.
C. 23.9 FEET ALONG THE CHANNEL EDGE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11383 NM 48/09

PENSACOLA HARBOR AND BAYOU CHICO CHANNELS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
PENSACOLA HARBOR							
BAY CHANNEL	33.0	33.0	32.5	7-09	300	2.7	33
WEST CHANNEL	27.1	27.1	27.4	7-09	300	1.3	33
EAST CHANNEL	32.4	32.2	31.4	7-09	300	0.8	33
HARBOR CHANNEL	26.8	26.7	27.3	7-09	500	0.9	33
BAYOU CHICO CHANNELS							
ENTRANCE CHANNEL	16.9	16.8	14.4	4-09	100	0.8	15
INNER CHANNEL	16.7	13.7	12.9	4-09	75	1.1	14
TURNING BASIN	6.9	9.3	9.3	4-09	500	-	14

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

Chart 11383 NM 48/09

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

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 (MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	B24.0	39.4	39.4	C33.4	1-09	A500	3.1	A35
BARRANCAS CHANNEL	47.5	48.7	48.1	47.3	1,7-09	A500	1.7	A35
PICKENS CHANNEL	43.6	45.5	45.5	D45.9	1-09	A500	2.8	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
B. 13.1 FEET ALONG THE CHANNEL EDGE.
C. 23.9 FEET ALONG THE CHANNEL EDGE.
D. EXCEPT FOR A 43 FT OBSTRUCTION REPORTED BY AN NOS SURVEY AT 30°19'57.7" N, 087°16'39.3" W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11384 NM 48/09

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2009

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 (MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	B24.0	39.4	39.4	C33.4	1-09	A500	3.1	A35
BARRANCAS CHANNEL	47.5	48.7	48.1	47.3	1,7-09	A500	1.7	A35
PICKENS CHANNEL	43.6	45.5	45.5	D45.9	1-09	A500	2.8	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
B. 13.1 FEET ALONG THE CHANNEL EDGE.
C. 23.9 FEET ALONG THE CHANNEL EDGE.
D. EXCEPT FOR A 43 FT OBSTRUCTION REPORTED BY AN NOS SURVEY AT 30°19'57.7" N, 087°16'39.3" W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11477 NM N48/09

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2009

CONTROLLING DEPTHS FROM SEAWARD IN METERS 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 (METERS)	LENGTH (NAUT. MILES)	DEPTH MLLW (METERS)
OUTER REACH	12.8	12.8	12.8	12.6	6-09	121.9	4.7	13.4
MIDDLE REACH	12.3	12.7	12.6	12.3	6-09	121.9	0.9	13.4
INNER REACH	12.1	12.8	12.6	11.8	6-09	121.9	0.7	12.2

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

Chart 11478 NM 48/09

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2009

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 (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	42.0	42.2	42.2	41.6	6-09	400	4.7	44
MIDDLE REACH	40.2	41.6	41.4	40.6	6-09	400	0.9	44
INNER REACH	39.7	42.0	41.4	38.9	6-09	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.8	39.7	40.2	37.0	6-09	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	35.1	35.4	35.3	35.0	6-09	400	0.3	31

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

Chart 11481 NM 48/09

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2005 AND SURVEYS TO JUN 2009

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 (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	42.0	42.2	42.2	41.6	6-09	400	4.7	44
MIDDLE REACH	40.2	41.6	41.4	40.6	6-09	400	0.9	44
INNER REACH	39.7	42.0	41.4	38.9	6-09	400	0.7	40
WEST ACCESS CHANNEL (EAST PORTION)	37.8	39.7	40.2	37.0	6-09	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	35.1	35.4	35.3	35.0	6-09	400	0.3	31

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

Chart 12313 NM 48/09

SCHUYLKILL RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT SCHUYLKILL RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
1	27.5	32.4	33.9	3-09	400	0.32	33
2	24.5	31.0	29.6	3-09	400	0.34	33
3	31.4	31.8	28.5	3-09	400	0.18	33
4	29.0	32.1	29.6	3-09	400	0.11	33
5	28.1	33.2	31.9	3-09	300	0.30	33
6	26.8	31.7	27.2	3-09	325	0.21	33
7	31.0	30.7	24.1	3-09	300	0.31	33
8	29.4	31.8	19.9	3-09	300	0.15	33
9	31.4	32.1	29.7	3-09	300	0.31	33
10	32.1	34.3	30.7	3-09	325	0.09	33
11	28.7	33.1	35.0	3-09	350	0.05	33
12	25.4	32.4	33.6	3-09	350	0.05	33
13	26.3	21.7	33.1	3-09	325	0.07	33
14	23.5	30.9	33.5	3-09	300	0.14	33
15	26.2	32.8	32.1	3-09	325	0.08	33
16	25.3	30.8	26.3	3-09	350	0.08	33
17	27.4	32.7	27.5	3-09	325	0.06	33
18*	30.7	31.3	28.0	3-09	300	0.31	33
18	10.5	23.8	31.1	3-09	300	0.14	33
19	11.0	17.1	27.3	3-09	200	0.04	33
19	16.9	28.0	27.9	3-09	200	0.04	26
20	20.3	26.1	21.1	3-09	250	0.05	26
21	25.1	20.3	10.4	3-09	250	0.04	26
22	19.7	14.8	9.7	3-09	250	0.06	26
23	19.3	7.1	1.0	3-09	200	0.21	26
24	25.8	14.6	3.8	3-09	250	0.06	26
25	26.9	16.0	8.5	3-09	250	0.09	26
26	26.2	15.5	11.8	3-09	250	0.09	26
27	25.3	16.2	11.6	3-09	225	0.12	26
28	19.0	15.7	12.6	3-09	200	0.10	26
29	14.7	15.4	14.0	3-09	200	0.07	26
30	15.7	16.8	17.5	3-09	200	0.30	22
31	21.0	12.8	16.7	3-09	200	0.10	22
32	21.7	15.9	11.7	3-09	200	0.26	22
33	22.6	11.8	8.2	3-09	200	0.10	22
34	20.2	16.1	12.3	3-09	250	0.07	22
35	22.2	15.5	12.0	3-09	250	0.08	22
36	19.2	15.4	12.1	3-09	250	0.08	22
37	20.1	19.7	19.4	3-09	250	0.06	22
38	14.2	15.4	16.2	3-09	225	0.13	22

* TO UPPER END OF BERTH NO. 1, ARCO BALLAST WHARF.

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

Chart 14824 NM 48/09

CONNEAUT HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2008 AND REPORTS TO JUL 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (FEET)	DEPTH LWD (FEET)
OUTER HARBOR CHANNEL	18.4	20.9	23.1	14.8	6, 7-08	430-1700	3500	28
OUTER HARBOR MOORING AREA	9.9	5.7	4.2	1.2	6, 7-08	0-1400	2250	22
CONNEAUT RIVER CHANNEL	22.9	26.0	26.0	24.8	6-08	170-250	2300	27
ACCESS CHANNEL TO CITY DOCK	7.1	3.3	3.3	1.0	6-08	200	1400	8
ANCHORAGE AREA	5.4	1.7	1.7	5.4	6-08	150	950	8

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

Chart 14832 NM 48/09

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2008 AND SURVEYS TO OCT 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.9	25.7	25.3	16.9	9-08	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	14.1	23.1	20.7	22.3	8;9-08	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	19.6	18.9	19.9	21.3	9-08	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	21.3	23.1	23.6	21.8	10-08	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	C19.5	20.3	23.6	21.1	9-08	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	A13.1	16.5	21.2	B18.2	6-07	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	19.6	18.4	9.5	5, 6, 7, 8-08	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	5.7	19.8	20.3	5.0	5, 6, 7, 8-08	200-350	3.05	21
THENCE TO BUOY 12	10.9	18.7	19.6	10.9	5, 6, 7, 8-08	200-400	1.70	21

A. SHOALING TO 8.8 FEET IN OUTSIDE 30 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH.

B. SHOALING TO 15.3 FEET OUTSIDE 50 FEET OF QUARTER.

C. SHOALING TO 16.4 FEET AT 42°52'39.3"N-78°53'53.5"W.

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

Chart 14833 NM 48/09

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2008 AND SURVEYS TO OCT 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	26.9	25.7	25.3	16.9	9-08	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	14.1	23.1	20.7	22.3	8;9-08	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	19.6	18.9	19.9	21.3	9-08	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	21.3	23.1	23.6	21.8	10-08	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	H19.5	20.3	21.2	21.1	9-08	1175-1350	.91	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	A13.1	16.5	18.4	B18.2	6-07	220-1625	.98	23
BUFFALO RIVER	C9.9	D11.2	E11.1	F8.9	6-07	100-700	5.27	23
BUFFALO SHIP CANAL	18.1	19.8	19.0	G15.2	6-07	125	1.02	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	19.6	18.4	9.5	5,6,7,8-08	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	5.7	19.8	20.3	5.0	5,6,7,8-08	200-350	3.05	21

A. SHOALING TO 8.8 FEET IN OUTSIDE 30 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH.

B. SHOALING TO 15.3 FEET OUTSIDE 30 FEET OF QUARTER.

C. SHOALING TO 4.7 FEET LAST 200 FEET OF REACH
SHOALING TO 4.6 FEET WITHIN 250 FEET OF POINT AT 42°51'45.6"N-78°52'06.0"W.
SHOALING TO 4.2 FEET WITHIN 250 FEET OF POINT AT 42°51'44.3"N-78°51'59.3"W.

D. SHOALING TO 9.4 FEET LAST 300 FEET OF REACH.

E. SHOALING TO 9.9 FEET WITHIN 300 FEET OF POINT AT 42°51'25.9"N-78°51'09.1"W
SHOALING TO 10.3 FEET LAST 350 FEET OF REACH.
SHOALING TO 9.8 FEET WITHIN 200 FEET OF POINT AT 42°51'24.2"N-78°50'39.9"W.

F. SHOALING TO 3.0 FEET WITHIN 500 FEET OF POINT AT 42°51'36.8"N-78°50'42.7"W.

G. SHOALING TO 10.4 FEET WITHIN 125 FEET OF END OF REACH.

H. SHOALING TO 16.4 FEET AT 42°52'39.3"N-78°53'53.5"W

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