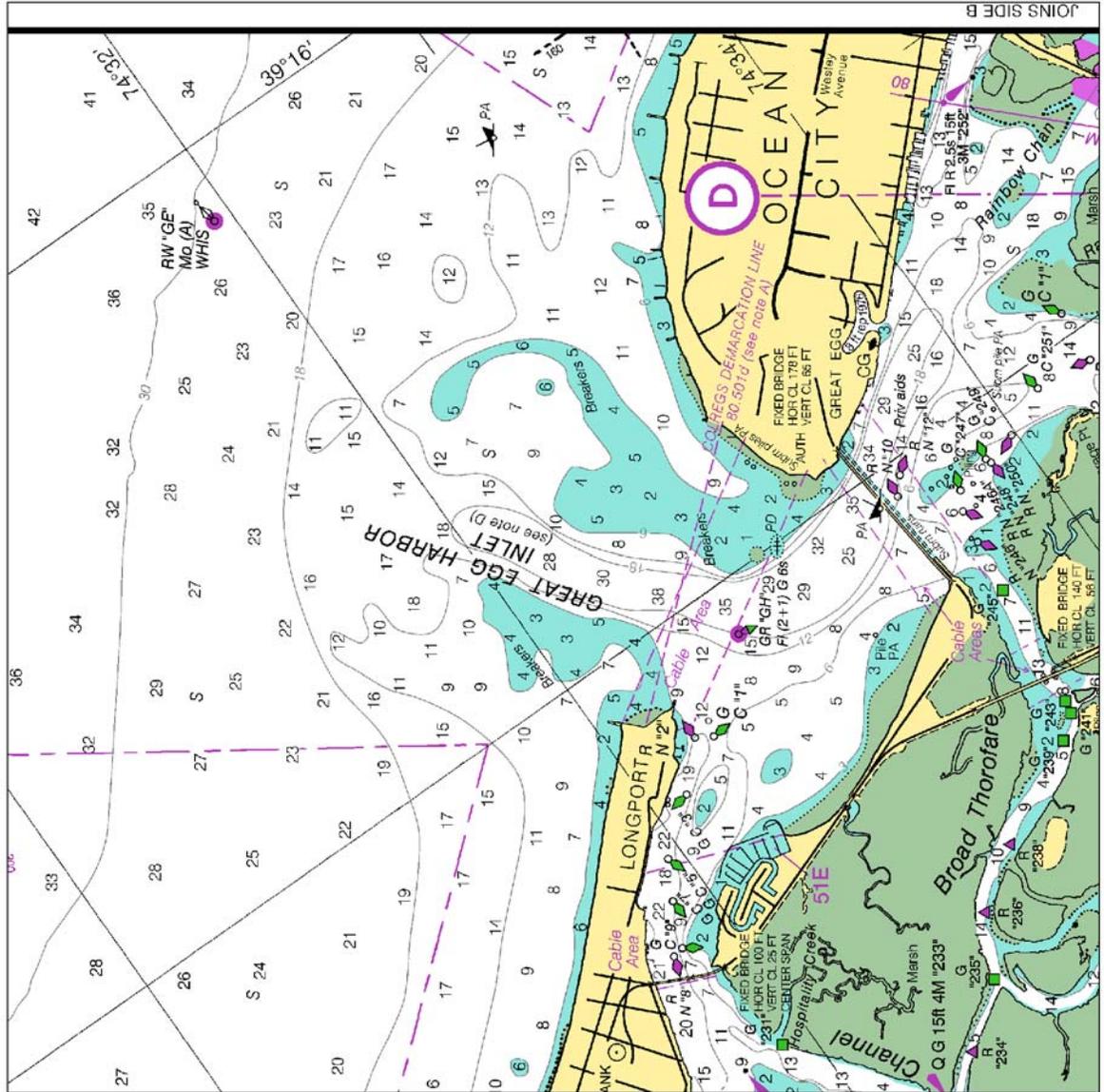


Chart 12316 (Side A)

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SECTION I

NM 25/14

Chart 11389

NM 25/14

PORT ST. JOE AND PANAMA CITY HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013							
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)
PORT ST. JOE HARBOR							
RANGE A	29.3	35.7	34.1	4-13	500	3.7	37
RANGE B	32.3	32.4	32.3	4-13	400	1.7	37
RANGE C	31.3	31.4	31.4	4-13	400	1.4	37
RANGE D	24.1	24.5A	24.4B	4-13	300	2.8	35
TURNING BASIN	24.2	23.6	23.2	4-12; 4-13	1000	0.4	32
HARBOR CHANNEL	24.2	23.6	23.2	4-12; 4-13	250	0.4	35
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	36.0	35.8	34.8	6-12	450-300	1.5	38-36

A. EXCEPT FOR SHOALING TO 14.5 FT IN THE VICINITY OF 29°52'42.5"N 85°23'01.8"W  
 B. EXCEPT FOR SHOALING TO 5.8 FT IN THE VICINITY OF 29°52'42.6"N 85°23'02.6"W AND SHOALING TO BARE IN THE VICINITY OF 29°52'39.6"N 85°23'03.0"W

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

Chart 11393 (Side A)

NM 25/14

PORT ST. JOE HARBOR CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013							
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)
PORT ST. JOE HARBOR							
RANGE A	29.3	35.7	34.1	4-13	500	3.7	37
RANGE B	32.3	32.4	32.3	4-13	400	1.7	37
RANGE C	31.3	31.4	31.4	4-13	400	1.4	37
RANGE D	24.1	24.5A	24.4B	4-13	300	2.8	35
HARBOR CHANNEL	24.2	23.6	23.2	4-12; 4-13	250	0.4	35
TURNING BASIN	24.2	23.6	23.2	4-12; 4-13	1000	0.4	32

A. EXCEPT FOR SHOALING TO 14.5 FT IN THE VICINITY OF 29°52'42.5"N 85°23'01.8"W  
 B. EXCEPT FOR SHOALING TO 5.8 FT IN THE VICINITY OF 29°52'42.6"N 85°23'02.6"W AND SHOALING TO BARE IN THE VICINITY OF 29°52'39.6"N 85°23'03.0"W

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

SECTION I

Chart 14836

NM 25/14

ASHTABULA RIVER AND HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2013								
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 FEET	DEPTH MLLW (FEET)
ASHTABULA HARBOR (AREA)								
LAKE APPROACH CHANNEL (A)	17.2 A	27.2	30.3	16.9	5-13	600	*	29
OUTER HARBOR (B)	4.6 B	25.4	25.0	18.1 B1	5-13	600-1400	2600 (b)	28
INNER HARBOR TO MINNESOTA SLIP (C)	3.2	12.3	12.8	13.5	5-13	1080	1100	27
APPROACH TO MINNESOTA SLIP (CC)	21.6 CC	21.6 CC	21.6 CC	21.6 CC	5-13	300-420	825	27
TURNING BASIN AND MOORING AREA (D)	15.7	15.7	15.7	15.7	5-13	1200	1300 (b)	22*
ACCESS TO THE EAST BASIN (E)	13.3 E1	8.4	8.5	6.2 E2	5-13	700-1200	3100	28
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 FEET	DEPTH MLLW (FEET)
ASHTABULA RIVER CHANNEL (AREA)								
FIRST 2000 FEET (F)	18.0 F1	16.2	9.7	8.5 F2	5-13	230-170	2000	27
THENCE TO FIFTH ST BRIDGE (G)	17.2 G1	16.8	16.2	15.1 G2	5-13	100-150	1880	18*
THENCE TO UPSTREAM END OF UPPER TURNING BASIN (GG)	9.5 GG1	3.2	3.0	2.8 GG2	5-13	100-250	1370	18*
THENCE TO OLD CAR FERRY DOCKS (H)	7.8 H1	9.4	9.4	9.0 H2	5-13	100-200	3600	16*
UPPER TURNING BASIN (I)	10.3	10.3	10.3	10.3	5-13	400	450 (b)	16*
THENCE TO THE END OF PROJECT (J)	1.8	1.7	1.7	2.6 J1	5-13	100	1551	16*
A. SHOALING TO 13.1 WITHIN 4' OF LEFT LIMIT, 694' FROM START OF REACH 41°55'12.03" N 80°47'40.01" W B. SHOALING TO 3.6 WITHIN 2' OF LEFT LIMIT, 2567' FROM START OF REACH 41°54'50.41" N 80°47'55.21" W B1. SHOALING TO 17.3 WITHIN 0' OF RIGHT LIMIT, 2407' FROM START OF REACH 41°54'46.45" N 80°47'38.18" W CC. SHOALING TO 15.9 WITHIN 2' OF BASIN LIMIT 41°54'37.62" N 80°47'34.17" W E1. SHOALING TO 12.8 WITHIN 2' OF LEFT LIMIT, 2984' FROM START OF REACH 41°54'54.12" N 80°46'58.56" W E2. SHOALING TO 5.9 WITHIN 0' OF RIGHT LIMIT, 2984' FROM START OF REACH 41°54'42.81" N 80°46'58.44" W F1. SHOALING TO 16.6 WITHIN 3' OF LEFT LIMIT, 122' FROM START OF REACH 41°54'37.79" N 80°47'55.59" W F2. SHOALING TO 8.3 WITHIN 2' OF RIGHT LIMIT, 1528' FROM START OF REACH 41°54'23.98" N 80°47'52.58" W G1. SHOALING TO 16.1 WITHIN 0' OF LEFT LIMIT, 640' FROM START OF REACH 41°54'13.11" N 80°47'54.56" W G2. SHOALING TO 14.4 WITHIN 0' OF RIGHT LIMIT, 1588' FROM START OF REACH 41°54'03.91" N 80°47'52.60" W GG1. SHOALING TO 9.1 WITHIN 1' OF LEFT LIMIT, 847' FROM START OF REACH 41°53'58.87" N 80°47'41.14" W GG2. SHOALING TO 2.7 WITHIN 1' OF RIGHT LIMIT, 1352' FROM START OF REACH 41°53'56.98" N 80°47'35.13" W H1. SHOALING TO 5.5 WITHIN 1' OF LEFT LIMIT, 3051' FROM START OF REACH 41°53'30.15" N 80°47'54.39" W H2. SHOALING TO 7.7 WITHIN 2' OF RIGHT LIMIT, 2791' FROM START OF REACH 41°53'33.24" N 80°47'55.32" W J1. SHOALING TO 2.3 WITHIN 1' OF RIGHT LIMIT, 1402' FROM START OF REACH 41°53'09.75" N 80°47'52.90" W * - NOT MAINTAINED (b) - IRRREGULARLY SHAPED, CONSULT THE CORPS OF ENGINEERS NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 25/14

Chart 14837

NM 25/14

FAIRPORT HARBOR AND GRAND RIVER								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2013 AND SURVEYS TO JUN 2013								
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 (FEET)	DEPTH MLLW (FEET)
A. LAKE APPROACH CHANNEL	18.9	23.0	13.0	10.2	6-13	780-480	1600	25
B. OUTER HARBOR CHANNEL	15.3	19.3	18.6	11.0	6-13	800	2150	25
C. OUTER HARBOR, EASTSIDE MOORING AREA	8.7	8.7	8.7	8.7	6-13	0-550	1700	25
D. OUTER HARBOR, WEST SIDE MOORING AREA	8.6	8.6	8.6	8.6	6-13	0-275	1550	25
E. LOWER 3700 FEET OF GRAND RIVER CHANNEL	14.2	18.8	18.8	15.8	6-13	200-150	3700	24
F. GRAND RIVER TO ABOVE TURNING BASIN	4.0	4.6	4.6	12.7	6-13	150-200	2065	21
G. TURNING BASIN	13.3	13.3	13.3	13.3	6-13	400	900	18
H. GRAND RIVER FROM ABOVE TURNING BASIN TO HEAD OF NAVIGATION WEST SIDE OF CHANNEL	5.4	7.6	7.6	7.1	6-13	0-100	2200	21
I. WEST SIDE OF UPSTREAM END OF GRAND RIVER CHANNEL			NOT MAINTAINED			0-100	1000	8

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

Chart 14843

NM 25/14

HURON HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2013 AND REPORTS TO MAY 2013								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (FEET)	DEPTH LWD (FEET)	
LAKE APPROACH CHANNEL	22.7 (a)	23.1	23.1 (b)	5-13	400	8400*	29.0	
ENTRANCE CHANNEL:								
FROM LAKE APPROACH CHANNEL TO END OF THE EAST BREAKWATER	15.7	19.2	21.1	5-13	400-300	700	29.0	
FROM END OF EAST BREAKWATER TO SLIP #1	17.8	20.7	10.6 (c)	5-13	300-150	1900	28.0	
HURON RIVER CHANNEL	14.0	16.2	20.5 (d)	5-13	120-350	1500	27.0	
TURNING BASIN	10.0	10.0	10.0 (e)	5-13	0-400	600	21.0	

\* LENGTH VARIES DEPENDING ON THE LOCATION OF THE 29 FOOT CONTOUR IN LAKE ERIE.  
 (a) SHOALING TO 22.6 WITHIN 1' OF LEFT LIMIT, 8383' FROM START OF REACH 41°24'15.4"N 82°32'30.8"W  
 (b) SHOALING TO 22.7 WITHIN 1' OF RIGHT LIMIT, 8381' FROM START OF REACH 41°24'17.8"N 82°32'34.9"W  
 (c) SHOALING TO 9.2 WITHIN 1' OF RIGHT LIMIT, 1413' FROM START OF REACH 41°23'54.1"N 82°32'58.7"W  
 (d) SHOALING TO 20.1 WITHIN 2' OF RIGHT LIMIT, 1060' FROM START OF REACH 41°23'40.5"N 82°33'10.0"W  
 (e) SHOALING TO 9.5 WITHIN 0' OF BASIN LIMIT 41°23'40.2"N 82°33'12.5"W

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