

TOPOGRAPHIC & HYDROGRAPHIC SURVEY
PONCE INLET AND FLOOD SHOAL
VOLUSIA COUNTY, FLORIDA

-FOR-
INTERA-GEC, LLC

COMMISSION NO.: 35807-2

DATE: APRIL 25, 2025

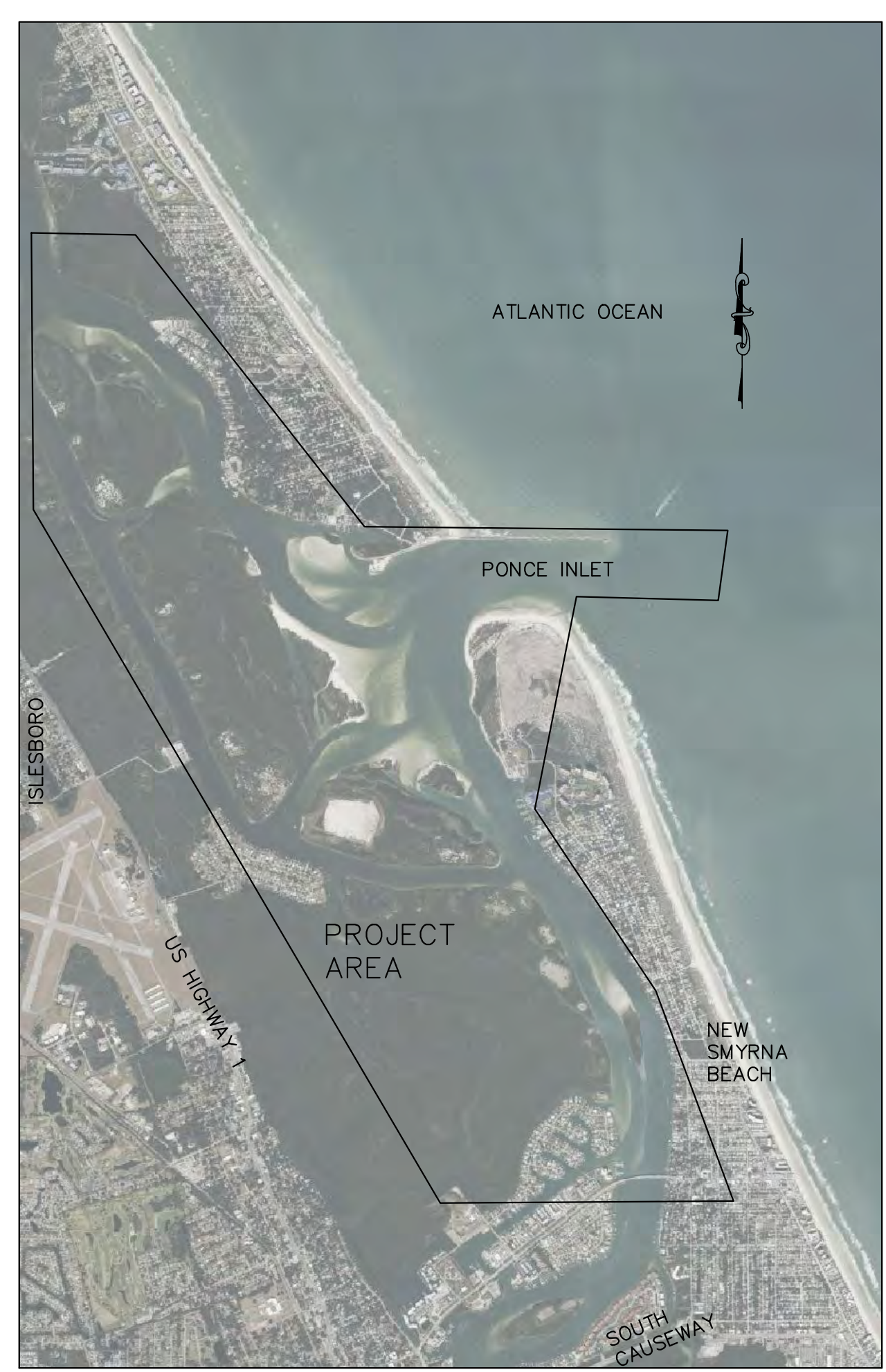
PREPARED BY:

Morgan & Eklund Inc.
PROFESSIONAL SURVEY CONSULTANTS
LB #4298

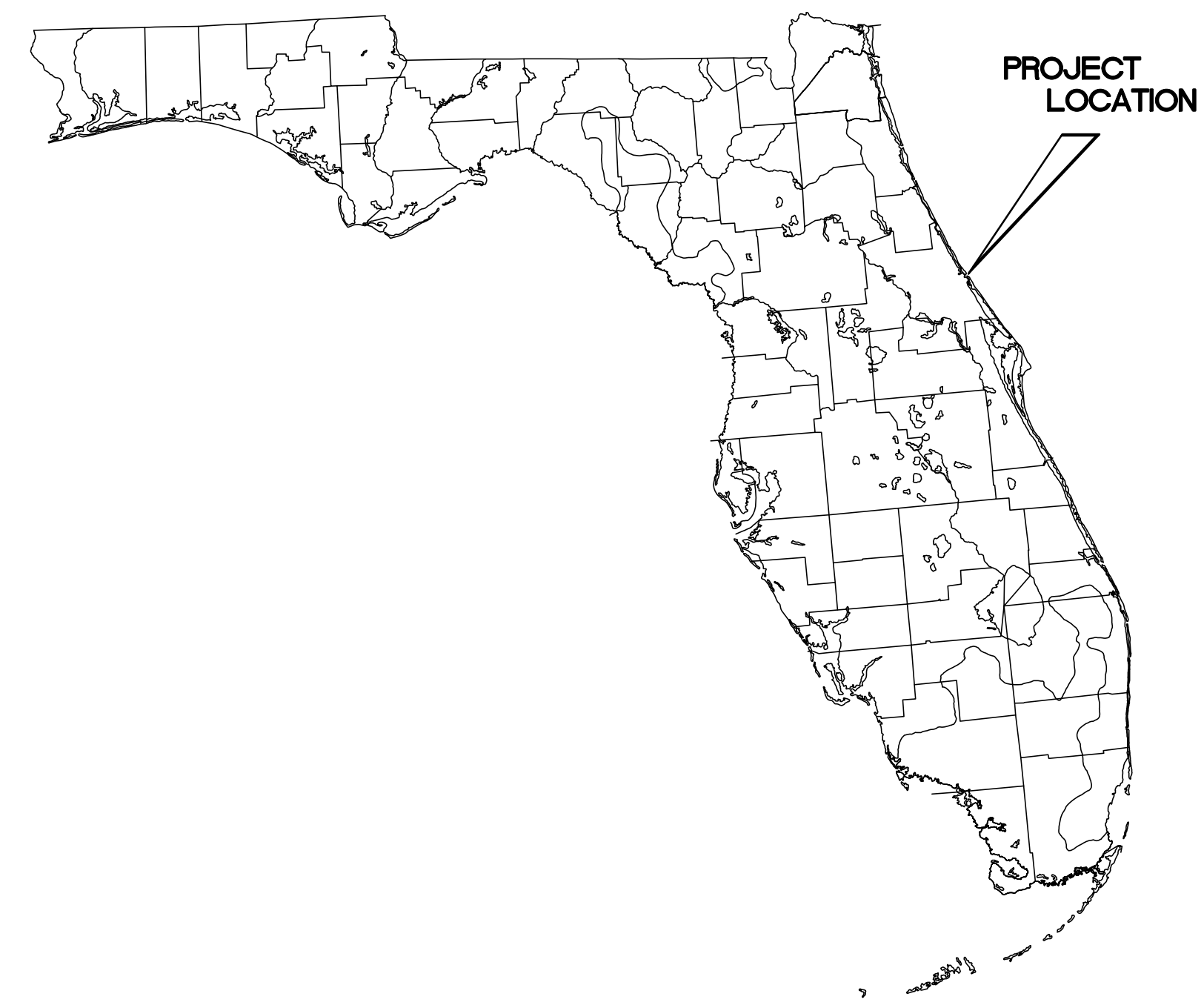


4909 US HIGHWAY #1
VERO BEACH, FL 32967
PHONE: (772) 388-5364
FAX: (772) 388-3165

1557 NE 164TH STREET
UNIT 1
NORTH MIAMI BEACH, FL 33162
PHONE: (305) 403-9557



LOCATION MAP
1" INCH = 3,000 FEET



SURVEY NOTES:

- GRID COORDINATES SHOWN ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, NGS ADJUSTMENT OF 1990 (NAD 83/90).
- GRID COORDINATES ARE BASED ON MONUMENTS AS SHOWN IN THE CONTROL TABLE.
- ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- ELEVATIONS ARE BASED ON MONUMENTS AS SHOWN IN THE CONTROL TABLE.
- TOPOGRAPHIC AND HYDROGRAPHIC INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE EXISTING CONDITIONS ON THE DATE OF THE FIELD SURVEY.
- BATHYMETRIC WATER SURFACE ELEVATIONS WERE OBTAINED USING AN APPLANIX POS MV SURFMASTER REAL TIME KINEMATIC (RTK) DUAL FREQUENCY GPS RECEIVER WITH REAL TIME CORRECTIONS APPLIED FROM A TRIMBLE R-12 BASE STATION OCCUPYING POINTS SHOWN IN THE CONTROL TABLE AND WERE VERIFIED TO A TIDE STAFF ELEVATED FROM MONUMENTS SHOWN IN THE CONTROL TABLE.
- HORIZONTAL POSITIONING UTILIZED AN APPLANIX POS MV SURFMASTER REAL TIME KINEMATIC (RTK) DUAL FREQUENCY GPS WITH REAL TIME CORRECTIONS APPLIED FROM A TRIMBLE R-12 BASE STATION OCCUPYING NETWORK CONTROL POSITIONED USING MONUMENTATION AS SHOWN ON THE CONTROL TABLE.
- BATHYMETRIC INFORMATION DEPICTED ON THIS SURVEY WERE MEASURED USING AN ODOM CVM DIGITAL FATHOMETER OPERATING AT 200 KHZ.
- AERIAL IMAGERY WAS TAKEN IN 2021 AND WAS PROVIDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION
- AERIAL IMAGERY IS DISPLAYED HEREON FOR INFORMATION PURPOSES ONLY, NO PHOTOGRAPHIC ACCURACY IS IMPLIED BY THIS MAP.
- NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OR DIGITAL/ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- UNDERGROUND UTILITIES AND IMPROVEMENTS NOT LOCATED.

CONTROL TABULATION

STATION	NAD 83/11 SPCS 901		NAVD 88		US SURVEY FEET	DESCRIPTION
	NORTHING	EASTING	ELEVATION	AGENCY		
DRMD	1804732.05	621458.22				DRMOND BEACH CORS ARP
F 226 1964	1717216.09	674349.40	11.22	CGS		DISK IN CONCRETE MONUMENT
X 225 1964	1717288.08	664700.93	6.45	CGS		DISK IN CONCRETE MONUMENT
VOL 1 1985 BSM	1721161.42	672801.75	8.26	FLDNR		DISK IN CONCRETE HEADWALL
U 404 1991	1721741.93	672428.73	8.45	NGS		DEEP ROD MONUMENT
G 226 1964	1716794.40	674727.19	8.68	CGS		DISK IN CONCRETE MONUMENT
110	1719824.69	675930.60	7.84	M&E		PK NAIL & DISK
111	1719986.58	675848.91	8.43	M&E		PK NAIL & DISK
112	1718476.81	678515.76	5.9*	M&E		5/8" REBAR & CAP
113	1718535.08	678681.31	6.0*	M&E		5/8" REBAR & CAP
* GPS DERIVED ELEVATION						

SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	KEY MAP
3-8	ELEVATION DATA
9-14	ELEVATION CONTOUR RANGES

CERTIFICATE OF SURVEYOR - I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS IN ACCORDANCE WITH A RECENT FIELD SURVEY MADE UNDER MY DIRECTION, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS AND MAPPERS IN CHAPTER 47, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

Digitally signed by
David W Coggin
DN: c=US, o=Florida,
dnQualifier=A01410
C0000018B95388C8
100011EB6,
cn=David W Coggin
Date: 2024.05.16
09:00:31 -04'00'

DAVID W. COGGIN, PSM
PROFESSIONAL SURVEYOR AND MAPPER # 6359
STATE OF FLORIDA

FIELD BOOKS: VOLUSIA 57, PAGES 32-38,
VOLUSIA 58, PAGES 1-11



ATLANTIC OCEAN

SHEETS 7 & 13

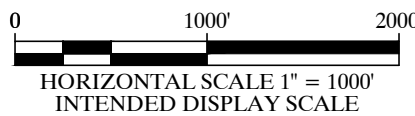
SHEETS 5 & 11

SHEETS 4 & 10

SHEETS 3 & 9

SHEETS 6 & 12

SHEETS 8 & 14

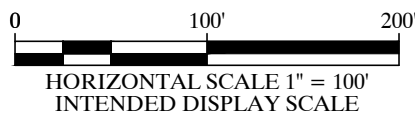


SEE SHEET 1 FOR NOTES

 Morgan & Eklund Inc. PROFESSIONAL SURVEY CONSULTANTS 4909 US HIGHWAY #1 VERO BEACH, FL 32967 PHONE: (772) 388-5364 FAX: (772) 388-3165 1557 NE 164TH STREET UNIT 1 NORTH MIAMI BEACH, FL 33162 PHONE: (305) 403-9557 LB #4298		KEY MAP TOPOGRAPHIC & HYDROGRAPHIC SURVEY PONCE INLET AND FLOOD SHOAL VOLUSIA COUNTY, FLORIDA -FOR- INTERA-GEC, LLC				COMMISSION NO. 35807-2
		SCALE 1" = 1000'				DATE 5/14/24
		DRAWN BY LFP	CHECKED BY DWC	FIELD BOOK PAGE NO.	SEE COVER	DATE OF SURVEY 4/25/24
						SHEET 2 OF 14



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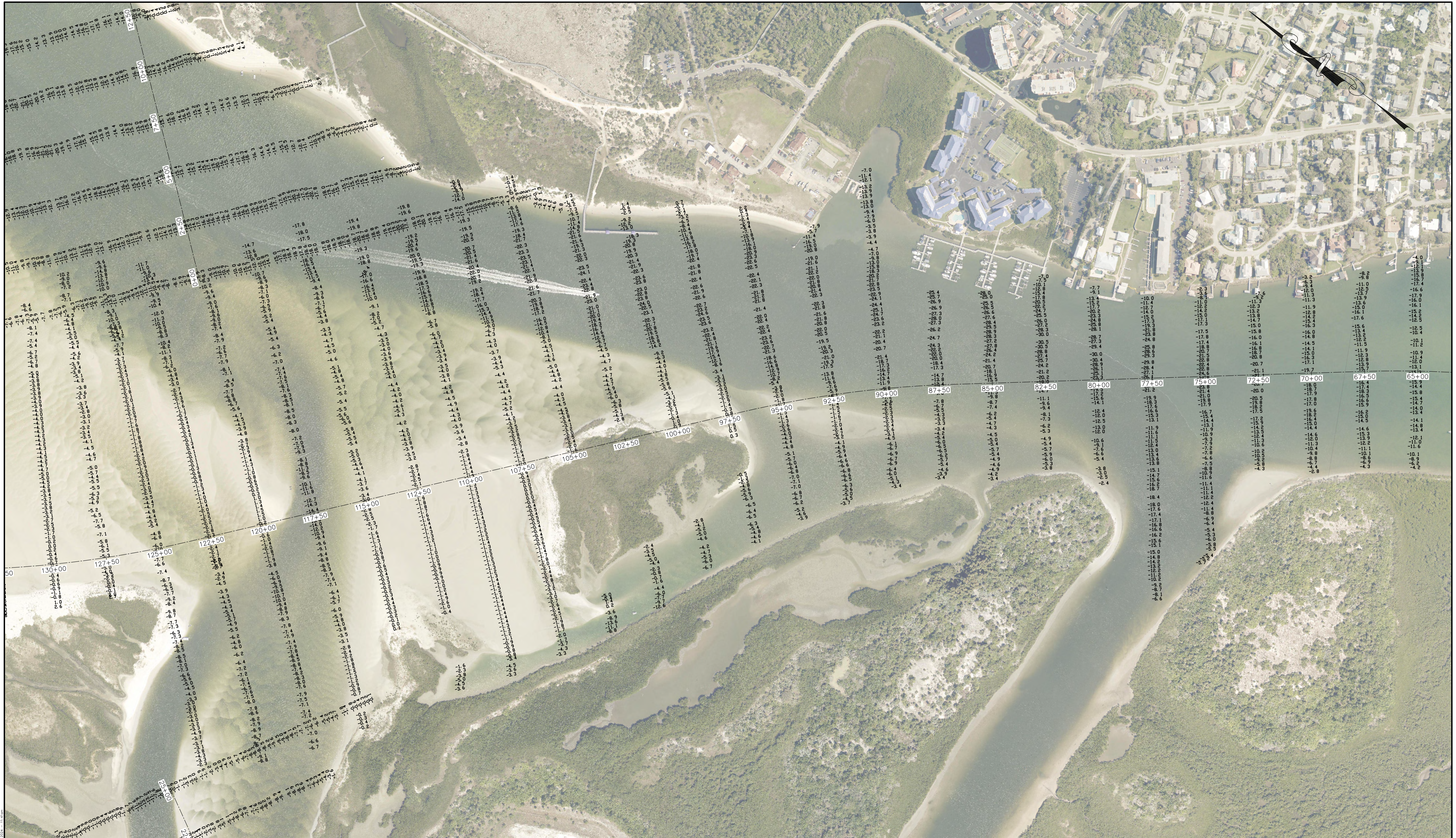
PROFESSIONAL SURVEY CONSULTANTS

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ELEVATION DATA (NAVD 88) TOPOGRAPHIC & HYDROGRAPHIC SURVEY PONCE INLET AND FLOOD SHOAL VOLUSIA COUNTY, FLORIDA				COMMISSION NO. 35807-2
-FOR- INTERA-GEC, LLC				SCALE 1" = 200'
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0 100' 200'
HORIZONTAL SCALE 1" = 100'
INTENDED DISPLAY SCALE

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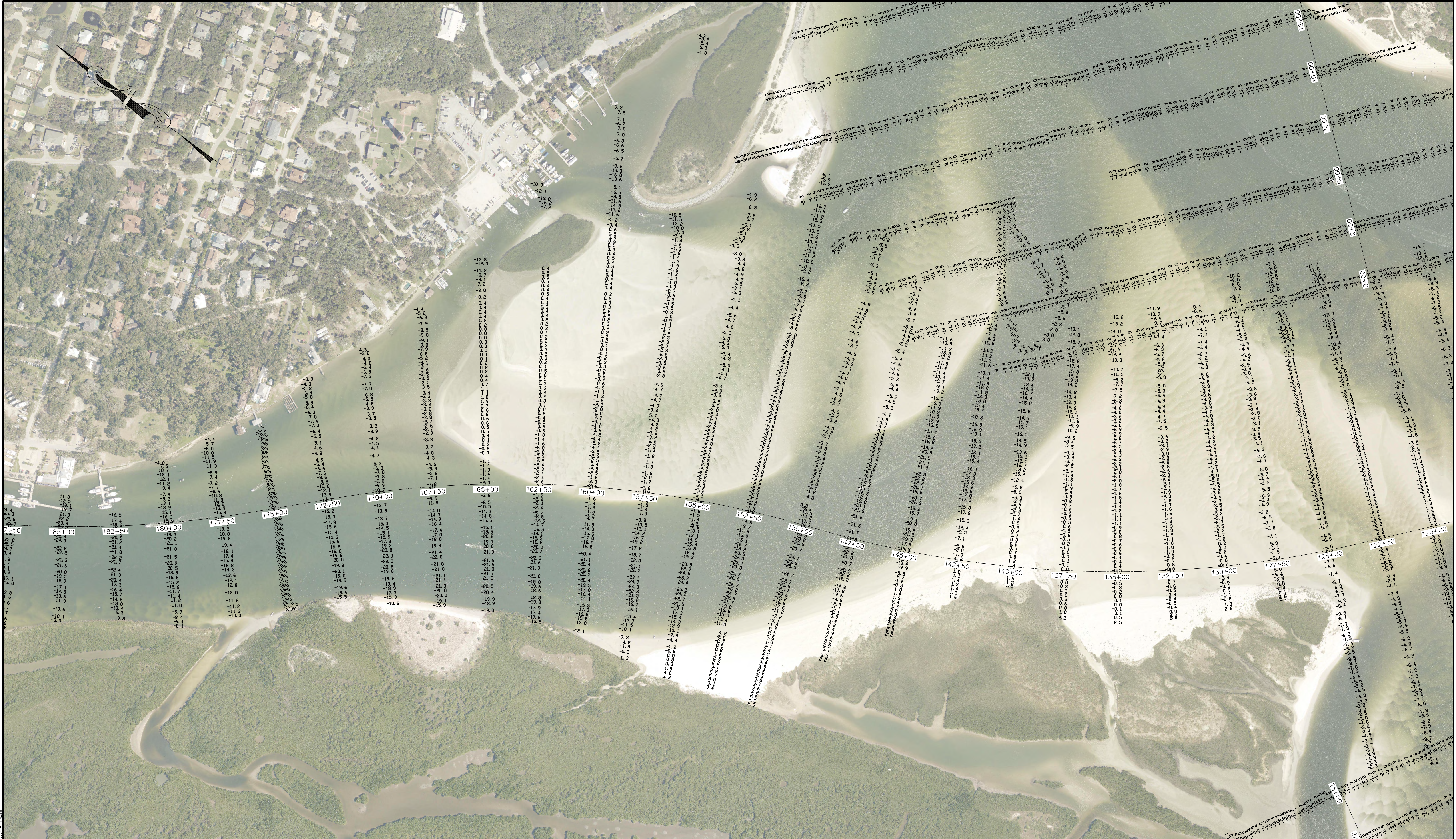


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										SHEET 4 OF 14



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0 100' 200'
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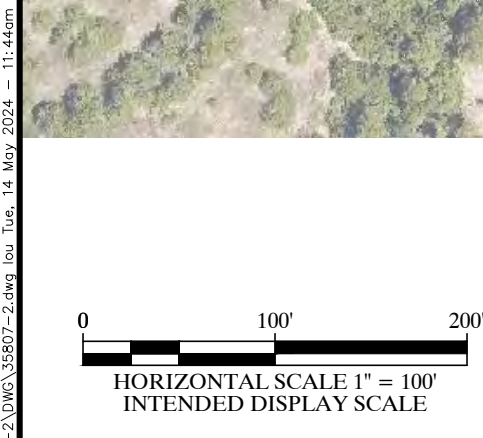
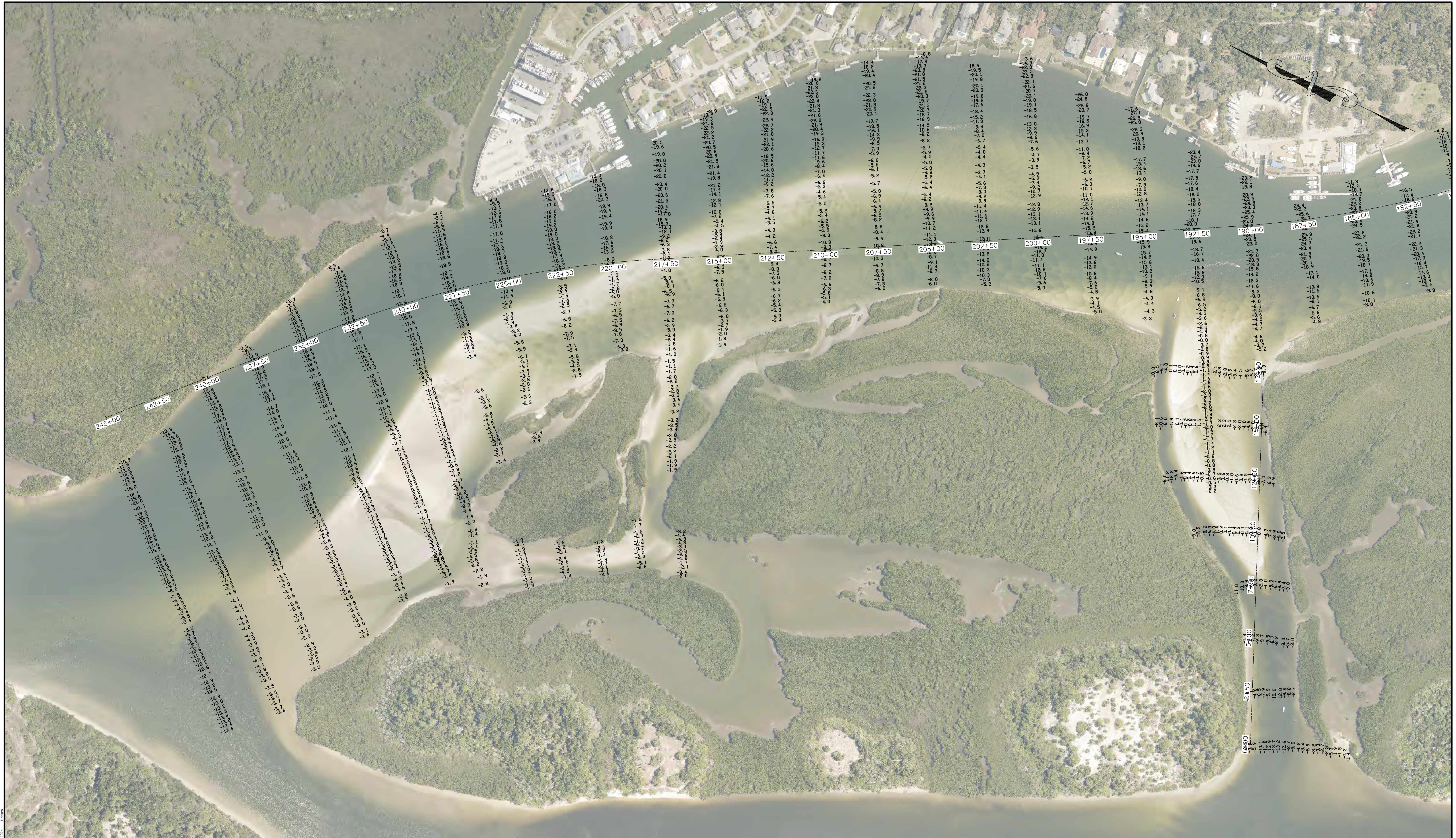
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SHEET 5 OF 14



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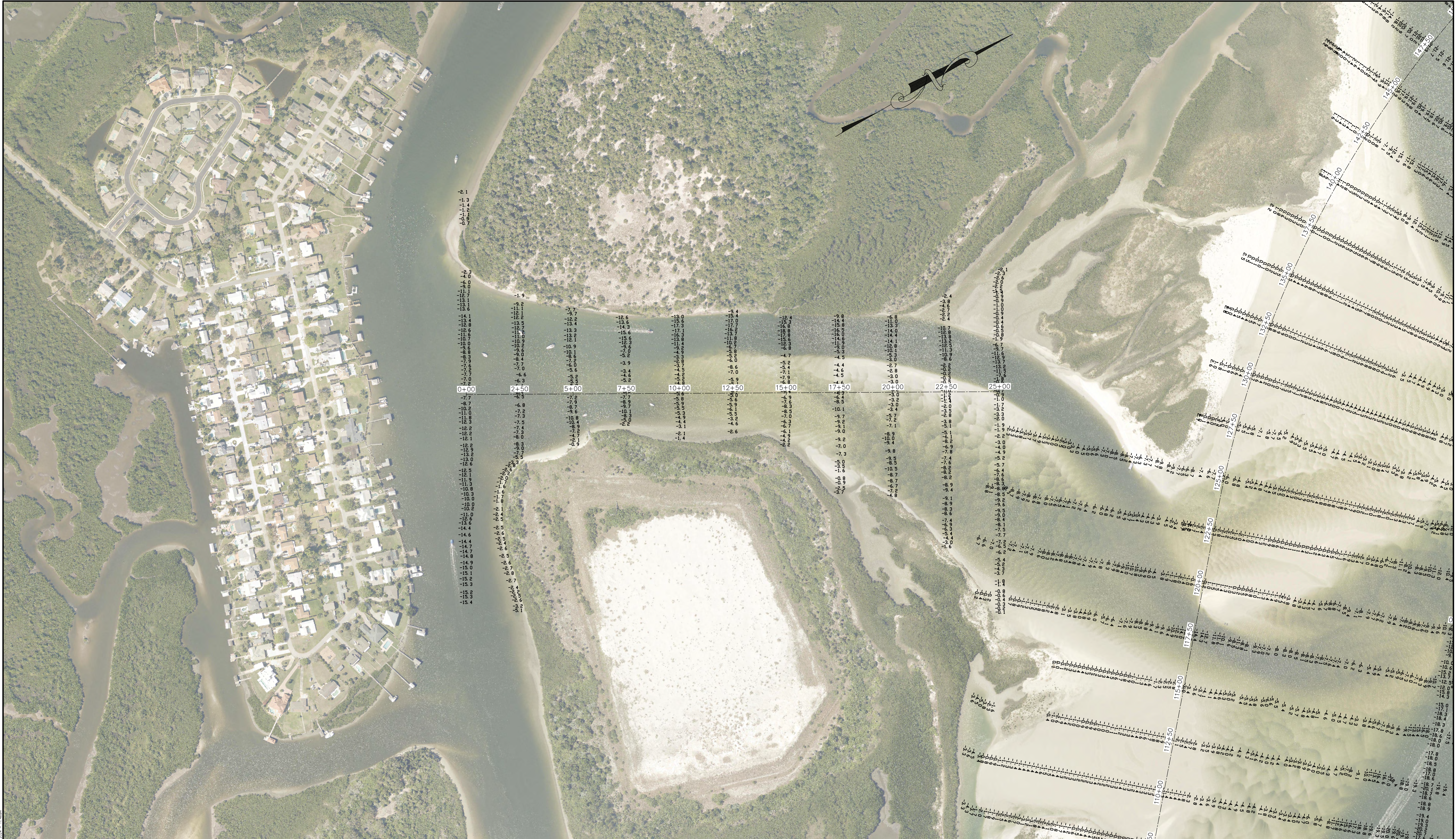
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HORIZONTAL SCALE 1" = 100'
INTENDED DISPLAY SCALE

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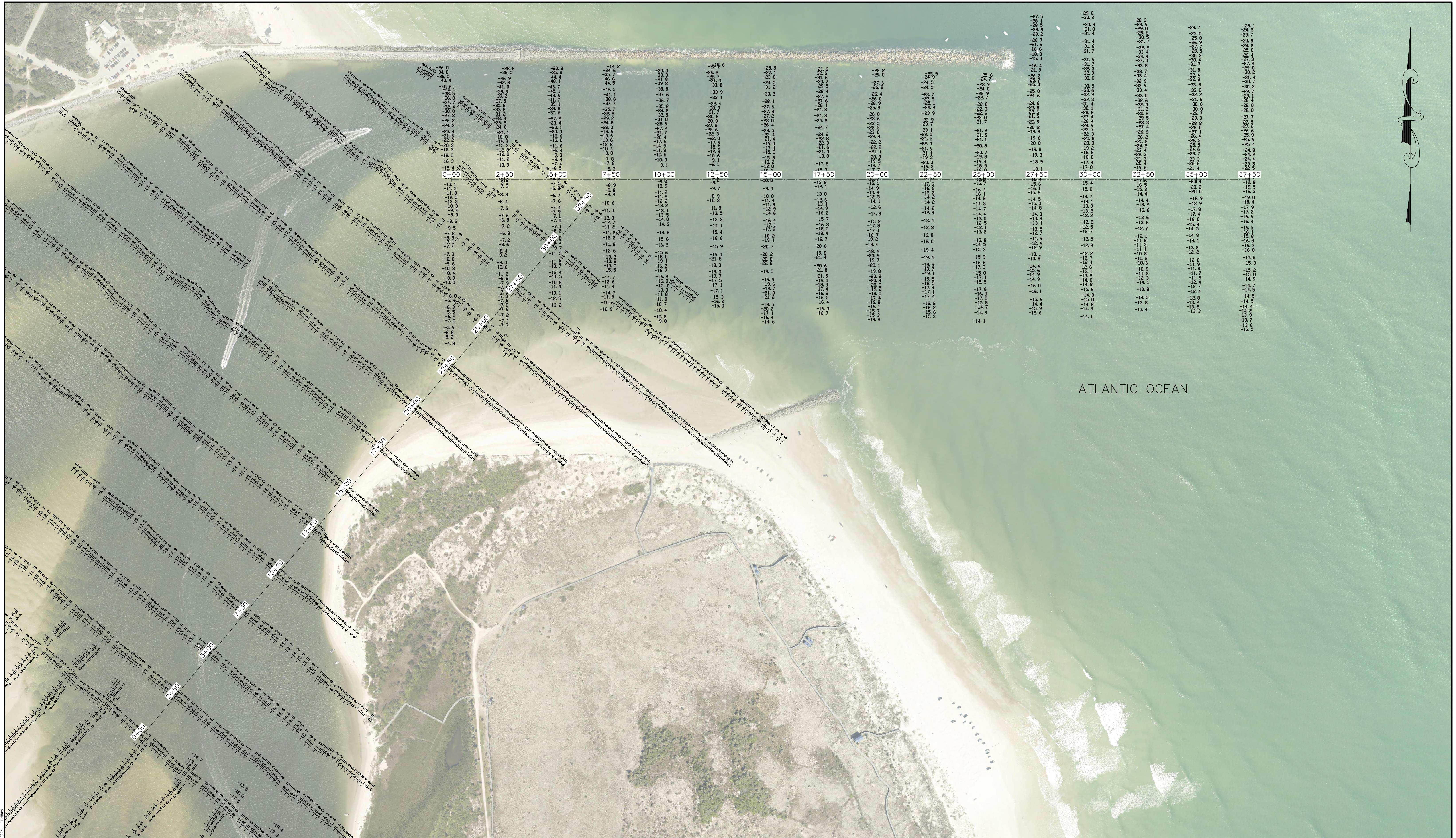
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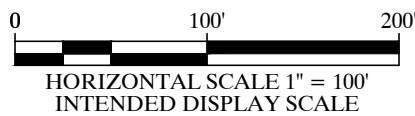
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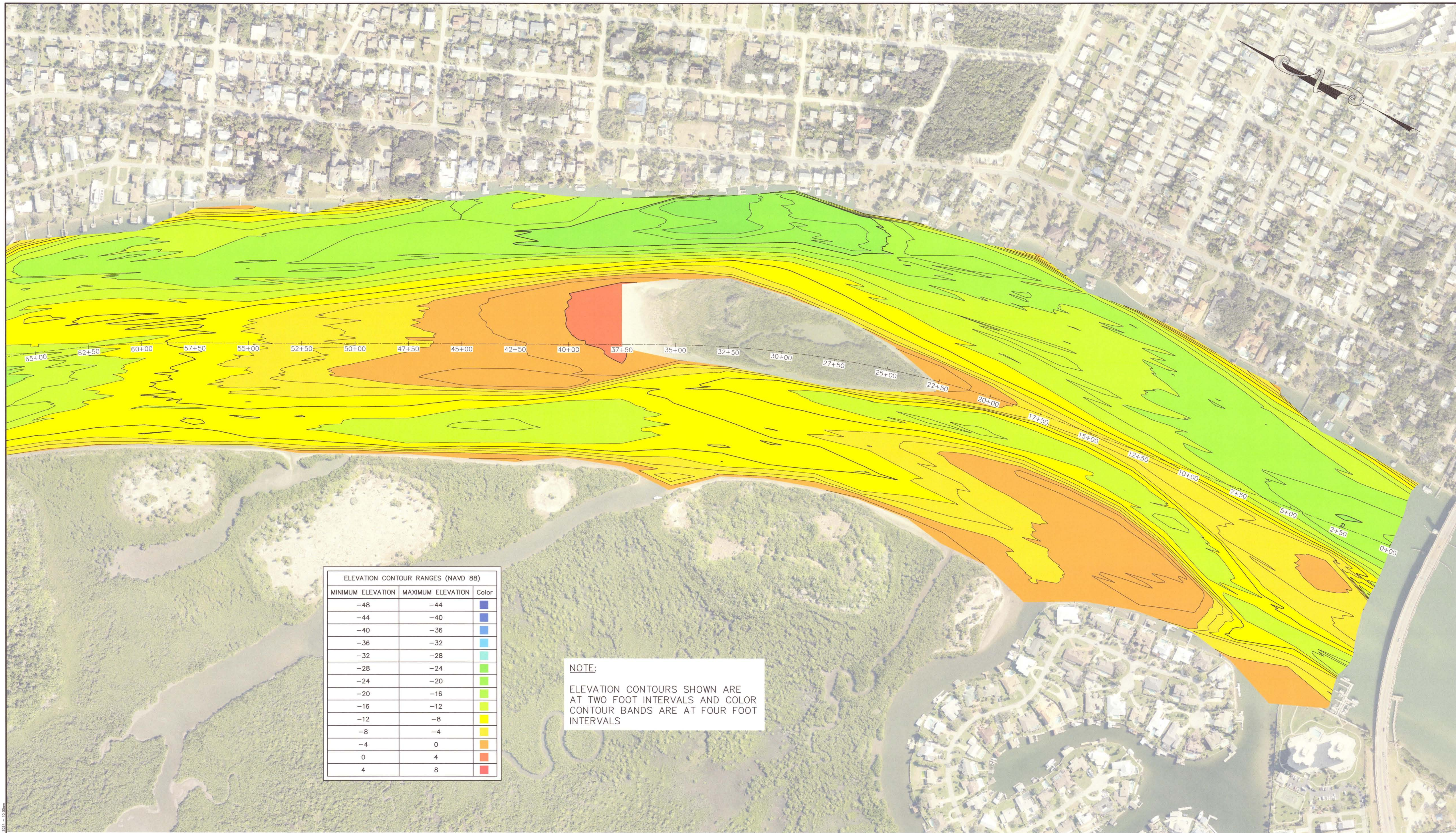


ATLANTIC OCEAN



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		SEE				COVER	



ELEVATION CONTOUR RANGES (NAVD 88)		
MINIMUM ELEVATION	MAXIMUM ELEVATION	Color
-48	-44	Blue
-44	-40	Blue
-40	-36	Blue
-36	-32	Blue
-32	-28	Blue
-28	-24	Blue
-24	-20	Blue
-20	-16	Blue
-16	-12	Blue
-12	-8	Blue
-8	-4	Blue
-4	0	Blue
0	4	Blue
4	8	Blue

NOTE:
ELEVATION CONTOURS SHOWN ARE
AT TWO FOOT INTERVALS AND COLOR
CONTOUR BANDS ARE AT FOUR FOOT
INTERVALS

0 100' 200'
HORIZONTAL SCALE 1" = 100'
INTENDED DISPLAY SCALE

SEE SHEET 1 FOR NOTES



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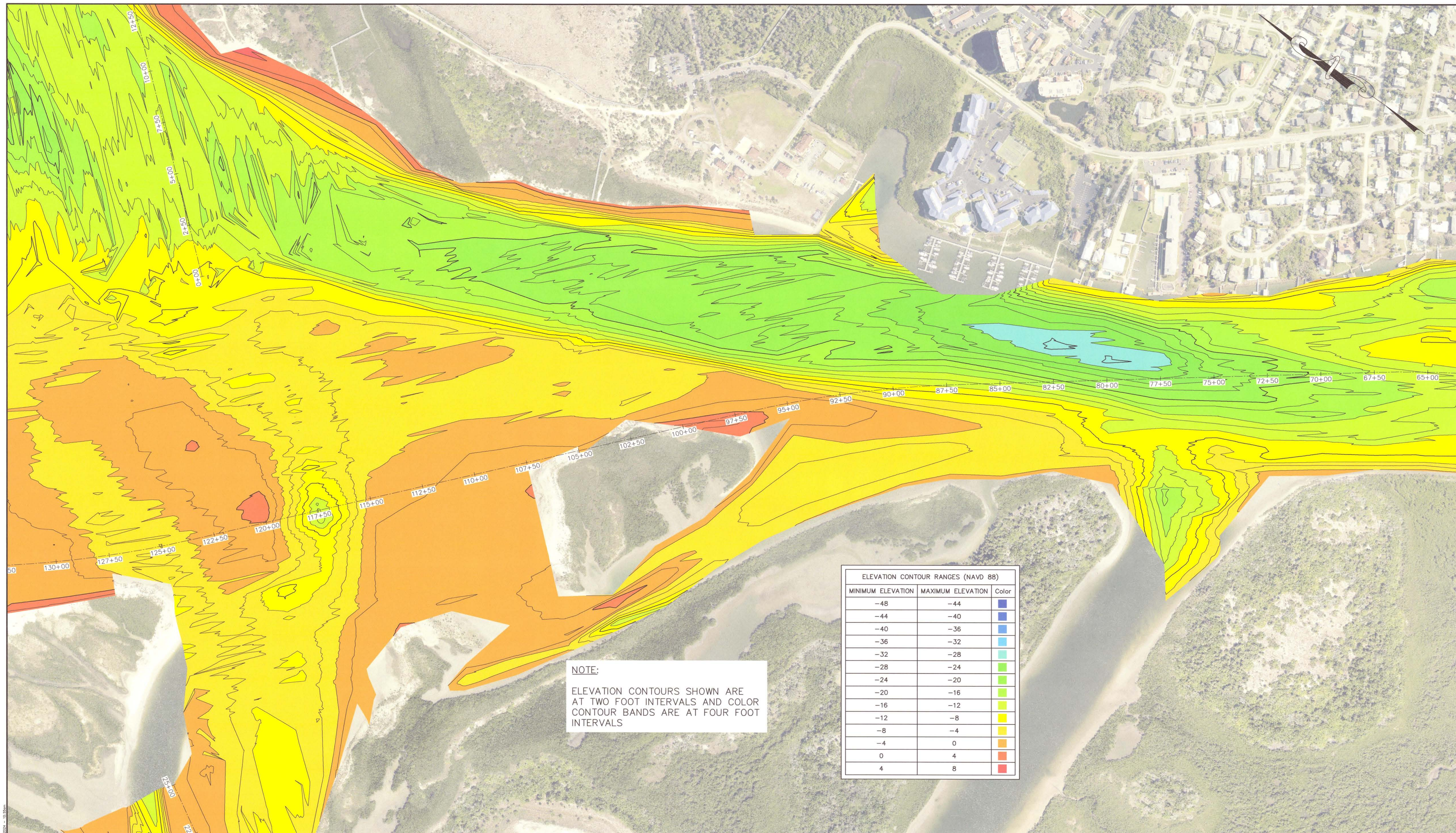
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ELEVATION CONTOURS (NAVD 88)
TOPOGRAPHIC & HYDROGRAPHIC SURVEY
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					SCALE 1" = 200'
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					SHEET 9 of 14



NOTE:
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ELEVATION CONTOUR RANGES (NAVD 88)		
MINIMUM ELEVATION	MAXIMUM ELEVATION	Color
-48	-44	Dark Blue
-44	-40	Blue
-40	-36	Light Blue
-36	-32	Cyan
-32	-28	Teal
-28	-24	Green
-24	-20	Light Green
-20	-16	Yellow-Green
-16	-12	Yellow
-12	-8	Orange-Yellow
-8	-4	Orange
-4	0	Light Orange
0	4	Red-Orange
4	8	Red

0 100' 200'
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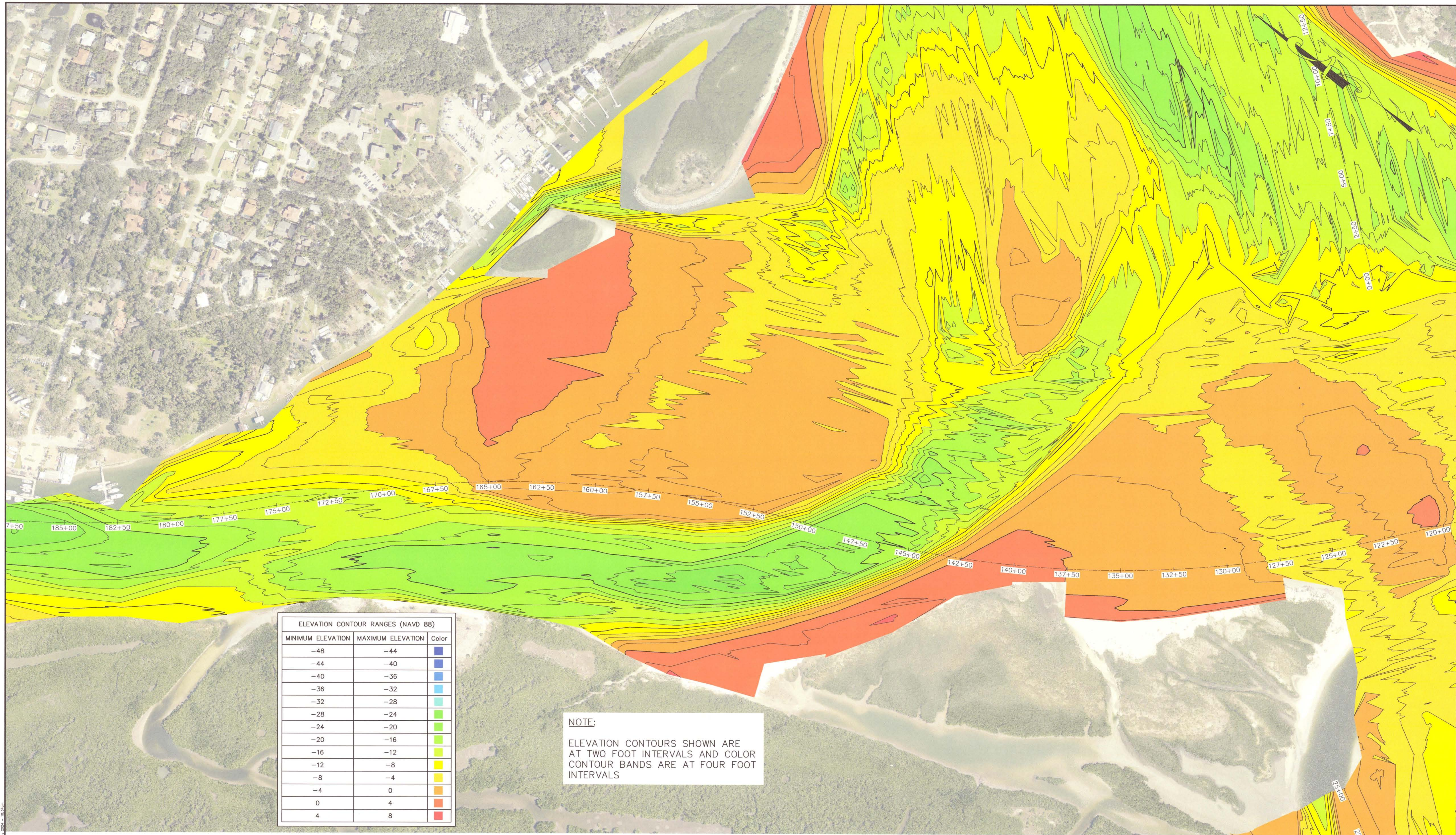
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DATE OF SURVEY
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35807-2
SCALE
1" = 200'
DATE
5/14/24
SHEET 10 OF 14



ELEVATION CONTOUR RANGES (NAVD 88)		
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-48	-44	Dark Blue
-44	-40	Blue
-40	-36	Light Blue
-36	-32	Cyan
-32	-28	Green
-28	-24	Light Green
-24	-20	Yellow-Green
-20	-16	Yellow
-16	-12	Orange-Yellow
-12	-8	Orange
-8	-4	Light Orange
-4	0	Yellow-Orange
0	4	Orange
4	8	Red-Orange

NOTE:
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CONTOUR BANDS ARE AT FOUR FOOT
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0 100' 200'
HORIZONTAL SCALE 1" = 100'
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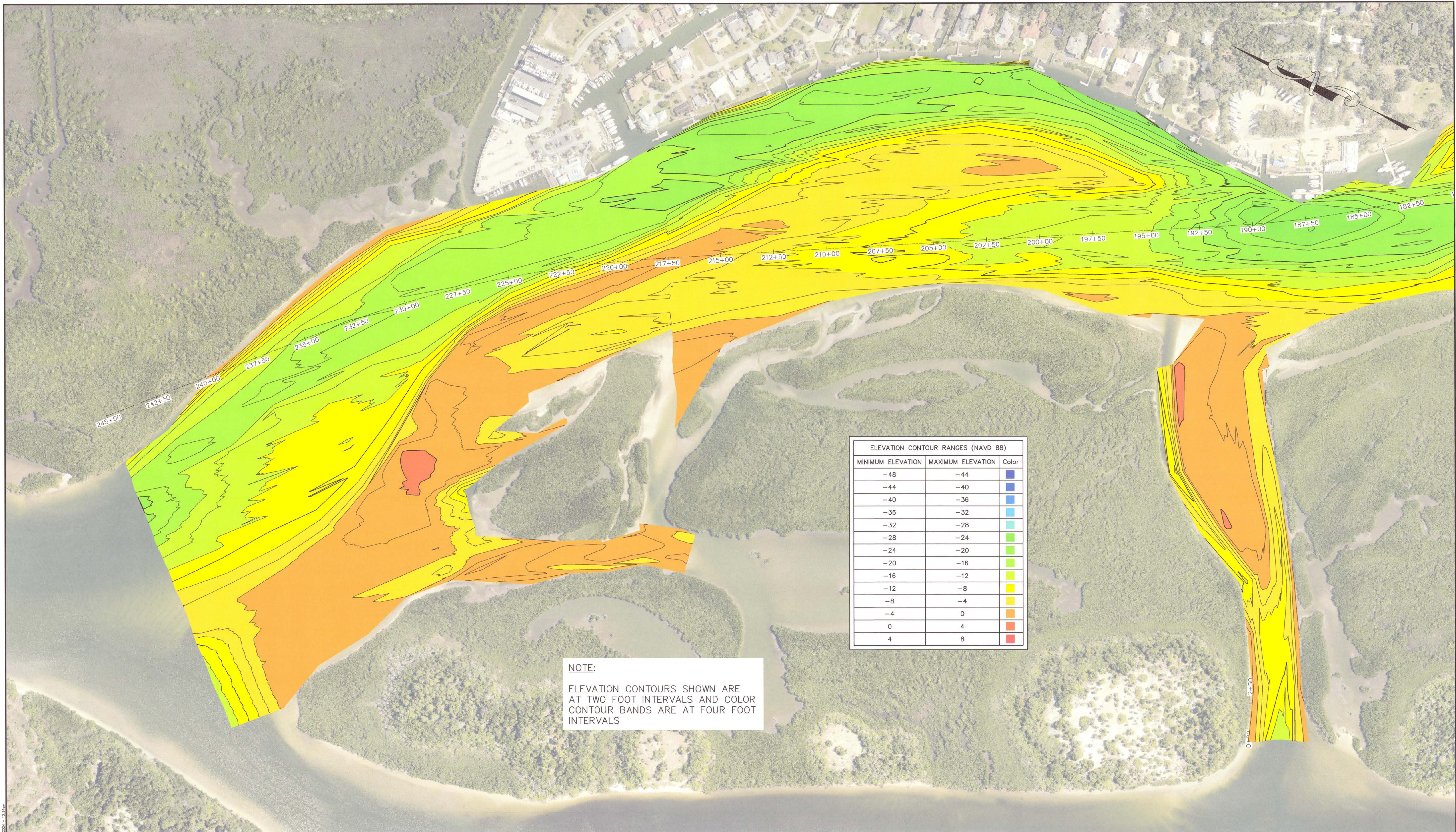
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ELEVATION CONTOURS (NAVD 88)
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					SHEET 11 of 14



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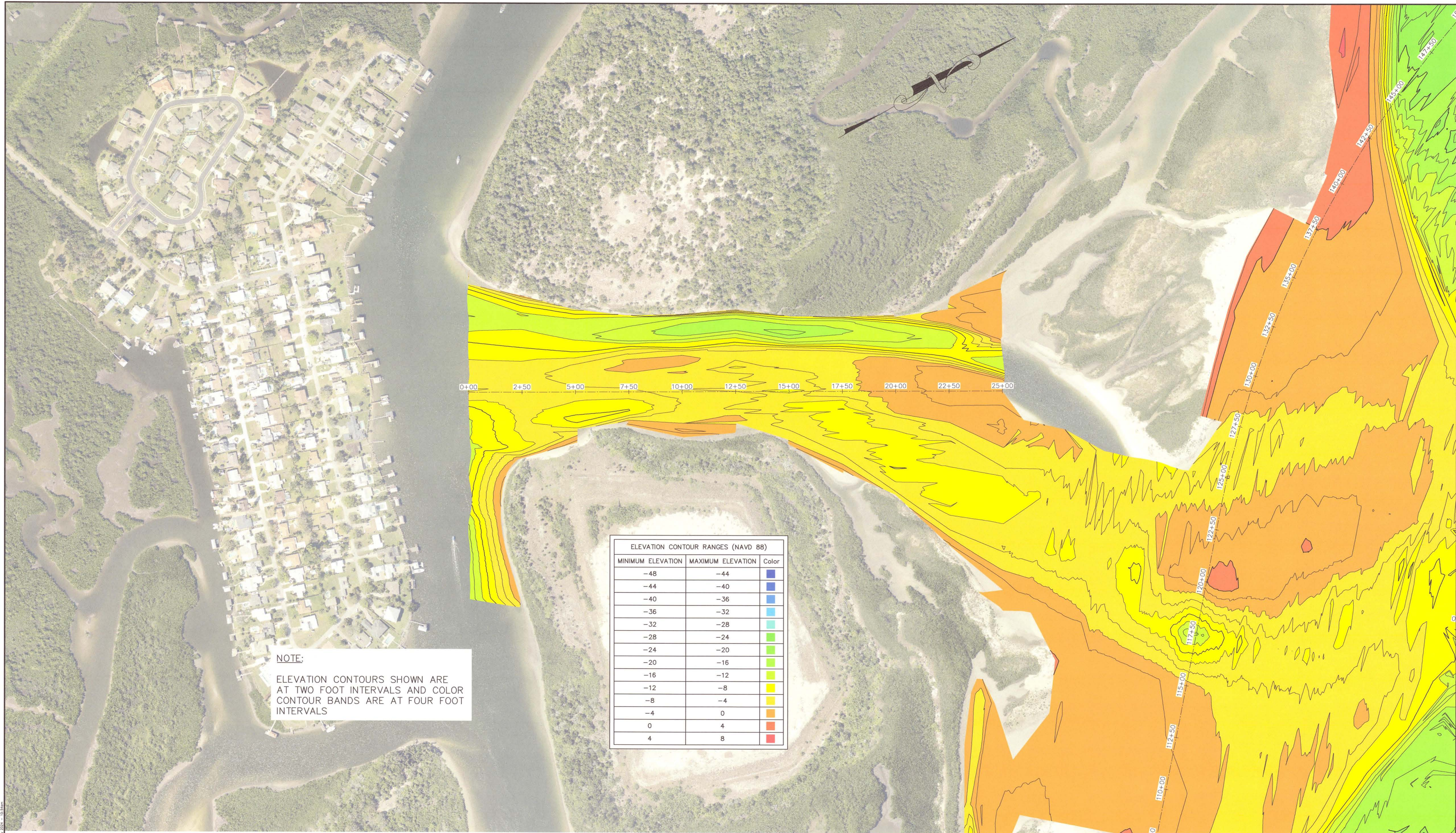
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SCALE
1" = 200'
DATE
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SHEET 12 of 14



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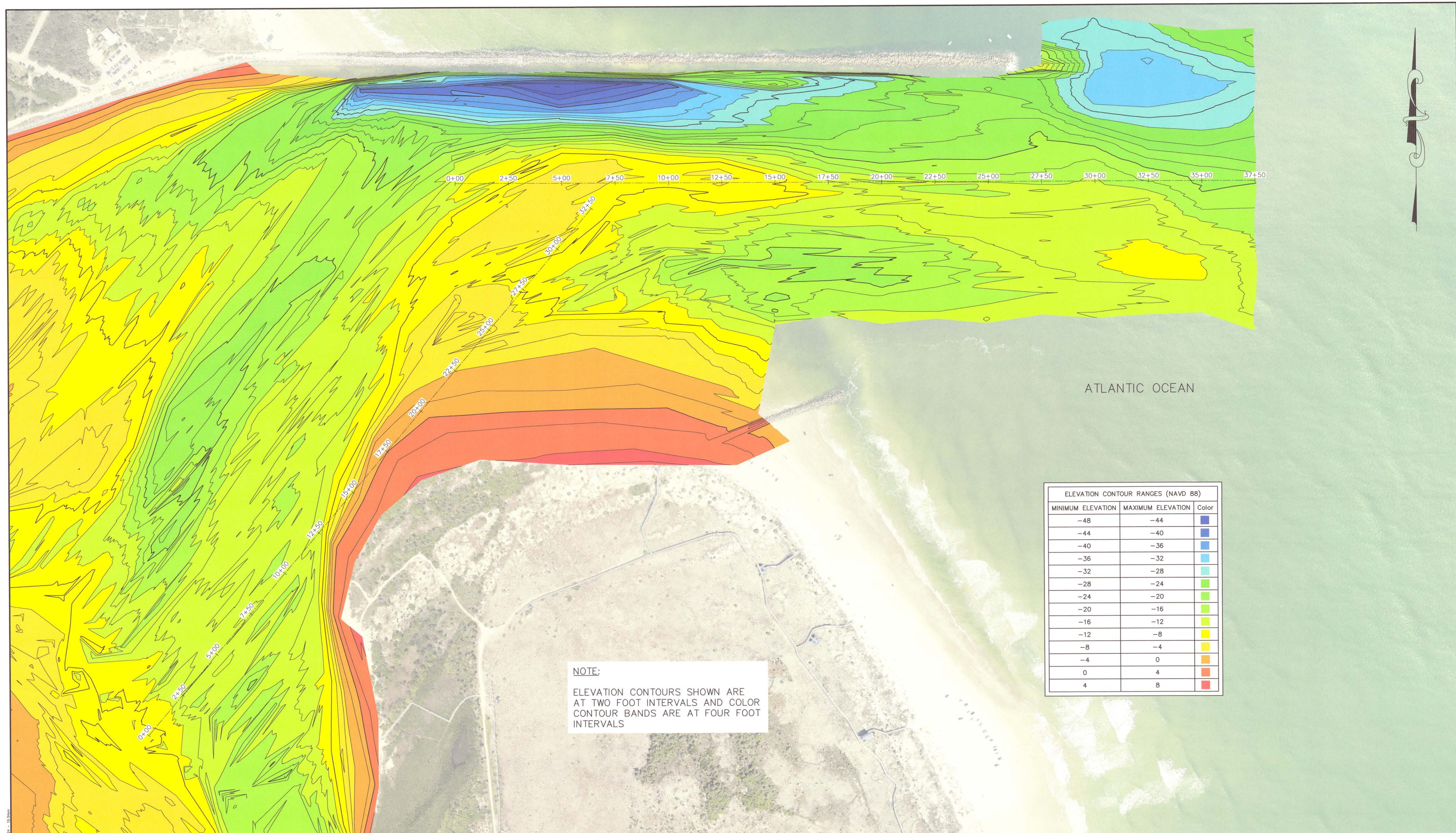
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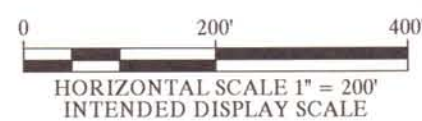
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-36	-32	
-32	-28	
-28	-24	
-24	-20	
-20	-16	
-16	-12	
-12	-8	
-8	-4	
-4	0	
0	4	
4	8	



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