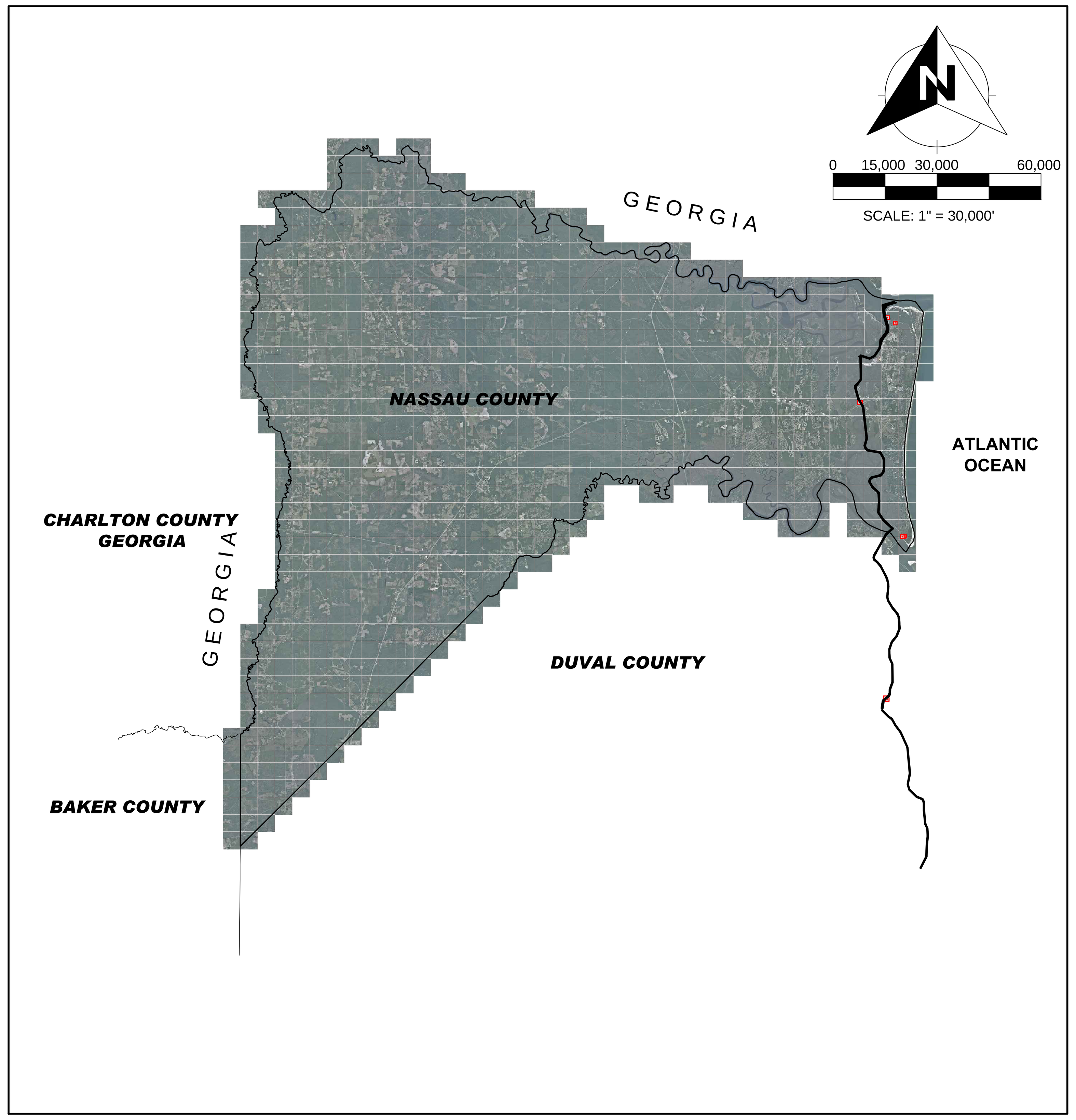
ATLANTIC INTRACOASTAL WATERWAY MAINTENANCE DREDGING
NASSAU COUNTY REACH I, FLORIDA

APPENDIX F
Bathymetric Survey

HYDROGRAPHIC SURVEY
OF THE INTRACOASTAL WATERWAY
NASSAU COUNTY, FLORIDA



KEY-VICINITY MAP

LEGEND

2	GREEN CHANNEL MARKERS	-13.00	SOUNDINGS MLLW (TYP.)
	INFORMATION SIGN	-12.0	MLLW OR SHALLOWER
2	RED CHANNEL MARKERS		

SHEET INDEX

SHT NO.	DESCRIPTION
C1	COVER - NOTES -LOCATION / AERIAL MAP
C2	KEY MAP - CENTERLINE TABULATION - SHEET STATIONING TABULATION - DREDGE VOLUME TABULATION
S3-S16	ELEVATION DATA
N17-N18	CHANNEL MARKER DATA

CONTROL TABULATION

	NAD 83/90 SPCS 0901		NAVD 88		
DESIGNATION	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESCRIPTION	STAMPING
872 0009 C TIDAL	2313289.93	511672.83	6.54	STAINLESS STEEL IRON ROD (PID BC2463)	0009 C 1982
872 0135 C TIDAL	2250327.8	516576.0	6.93	SURVEY DISK IN MONUMENT (PID DI0711))	0135 C 2004
872 0135 D TIDAL	2250127.15	516225.4	5.84	STAINLESS STEEL ROD (PID DI0713)	0135 D 2004
A 144	2288872.8	503884.3	5.65	DISK SET IN ABUTMENT (PID BC0146)	A 144 1954
KINGSLEY RESET	2288874.3	503534.8	3.94	DISK SET IN CONC. MONUMENT (PIDBC0145)	KINGSLEY 1 RESET 1934
N 326	2250113.3	515903.5	12.48	DISK SET IN PAVEMENT (PID BC0197)	N 326 1970
NAS 14	2311765.6	513849.4	24.87	DISK SET IN IN RETAINING WALL (PIDBC2461)	NAS 14
V 325	2203674.6	511050.7	26.33	DISK SET IN ABUTMENT (PID BC0453)	V 325
W 325	2203167.3	511574.1	22.79	DISK SET IN ABUTMENT (PID BC0452)	W 325

PREPARED FOR:

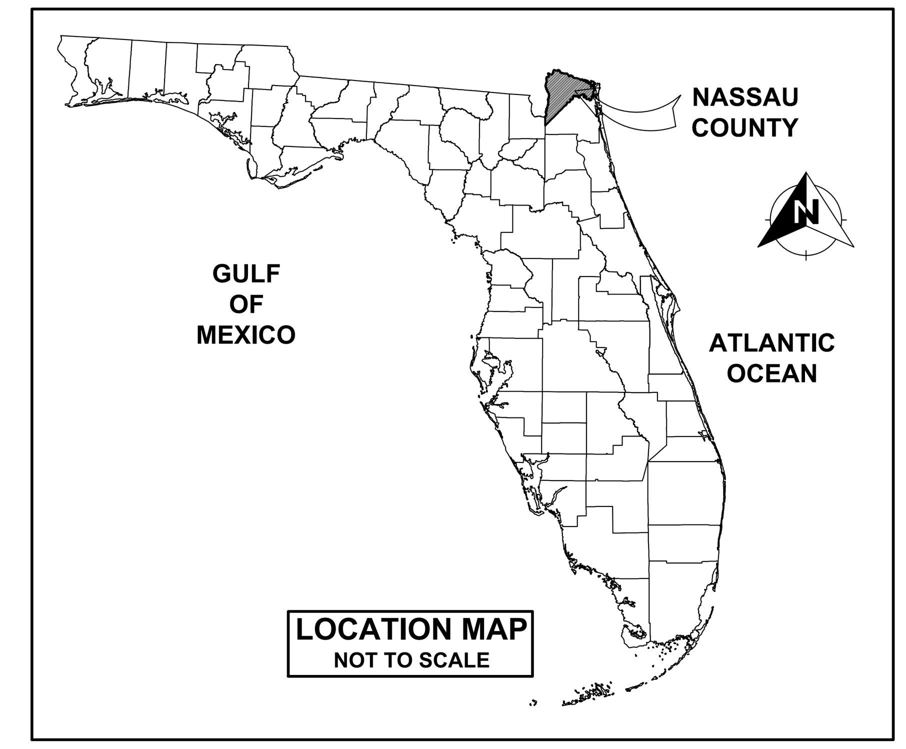
FLORIDA INLAND NAVIGATION DISTRICT

1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

PREPARED BY:

SEA DIVERSIFIED, INC.

21 NW 2ND STREET
DELRAY BEACH,
FLORIDA 33444



HYDROGRAPHIC SURVEY NOTES:

1. REFER TO SEA DIVERSIFIED PROJECT NUMBER 13-2078.
2. THIS HYDROGRAPHIC SURVEY WAS CONDUCTED ON JULY 9 THROUGH 11, 2014 AND JANUARY 31 THROUGH 31 2015.
3. THIS SURVEY WAS PREPARED FOR THE FLORIDA INLAND NAVIGATION DISTRICT.
4. THE PURPOSE OF THIS SURVEY WAS TO DETERMINE THE GENERAL BATHYMETRIC CONDITIONS OF THE INTRACOASTAL WATERWAY CHANNEL (ICWW) IN NASSAU COUNTY, FLORIDA.
5. THE INFORMATION DEPICTED HEREIN REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME.
6. HORIZONTAL DATA ARE IN FEET AND RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR FLORIDA, EAST ZONE (0901), NORTH AMERICAN DATUM (NAD) OF 1983, 1990 ADJUSTMENT.
7. VERTICAL DATA ARE IN FEET AND RELATIVE TO MEAN LOWER LOW WATER (MLLW). MEAN LOWER LOW WATER WAS TRANSLATED FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING THE LATEST VERSION VDATUM (VERTICAL DATUM TRANSFORMATION) PROVIDED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS).
8. BATHYMETRIC DATA WAS COLLECTED ALONG THE CHANNEL CENTERLINE AND TWO LINES OFFSET PARALLEL TO THE CENTERLINE, WIDENER AND IMPOUNDMENT BASIN DATA WAS COLLECTED AT FIFTY FOOT INTERVALS USING A TRIMBLE SPS461 REAL-TIME-KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) FOR POSITIONING AND A TELEDYNE (ODOM) MB1 MULTIBEAM SOUNDER OPERATING AT A 219 kHz WITH INTEGRATED TSS MODEL DMS-05, DYNAMIC MOTION SENSOR. HORIZONTAL POSITION ACCURACY WAS VERIFIED BY CHECKS AT CONTROL POINTS TABULATED HEREIN. THE SOUNDER WAS CALIBRATED PRIOR TO THE START OF THE SURVEY FOLLOWING MANUFACTURER RECOMMENDED PROCEDURES.
9. RTK DERIVED TIDES WERE APPLIED REAL-TIME DURING THE COURSE OF SURVEY UTILIZING THE TRIMBLE VRS NETWORK. RTK DERIVED TIDES WERE VERIFIED THROUGH TIDE RECORDINGS FROM SELF-RECORDING PRESSURE GAUGES (LEVEL TROLL 500).THE GAUGES WERE SET RELATIVE TO NAVD88. WATER LEVELS WERE RECORDED AT SIX-MINUTE INTERVALS DURING SURVEY OPERATIONS
10. ELEVATIONS DISPLAYED HEREON WERE INTERPOLATED FROM GRIDDED SOUNDING DATA ALONG INTRACOASTAL WATERWAY CHANNEL CUT STATIONS. FULL BOTTOM COVERAGE WAS NOT ACQUIRED. INTRACOASTAL WATERWAY CHANNEL LOCATION IS BASED UPON COORDINATE FILES PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT.
11. AIDS TO NAVIGATION (NACUTAIDS) WERE LOCATED WITH A TRIMBLE SPS351 DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) USING THE U.S. NAVBEACON SYSTEM FOR CORRECTIONS. NACUTAID POSITIONING WAS DERIVED FROM THE AVERAGE OF FIVE POSITIONS.
12. AZIMUTHS SHOWN HEREON ARE GRID RECKONED CLOCKWISE FROM NORTH.
13. AERIAL PHOTOGRAPHY OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION AND IS PROVIDED FOR GRAPHICAL PURPOSES ONLY. FLIGHT DATE WAS 2012.
14. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

ABBREVIATIONS

CSWY	CAUSEWAY
FPL	FLORIDA POWER AND LIGHT
GPS	GLOBAL POSITIONING SYSTEM
ICWW	INTRACOASTAL WATERWAY
MLLW	MEAN LOWER LOW WATER
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ASSOCIATION
PKWY	PARKWAY
RTK	REAL-TIME-KINEMATIC
SR	STATE ROAD

CERTIFICATION

I HEREBY CERTIFY THAT THE HYDROGRAPHIC SURVEY SHOWN HEREON IS BASED ON A RECENT FIELD SURVEY CONDUCTED UNDER MY PERSONAL DIRECTION AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

WILLIAM T. SADLER JR., P.E., P.S.M.
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. 5859
L.B. 7342

DATE:

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE: COVER SHEET / NOTES / KEY MAP

PREPARED FOR: FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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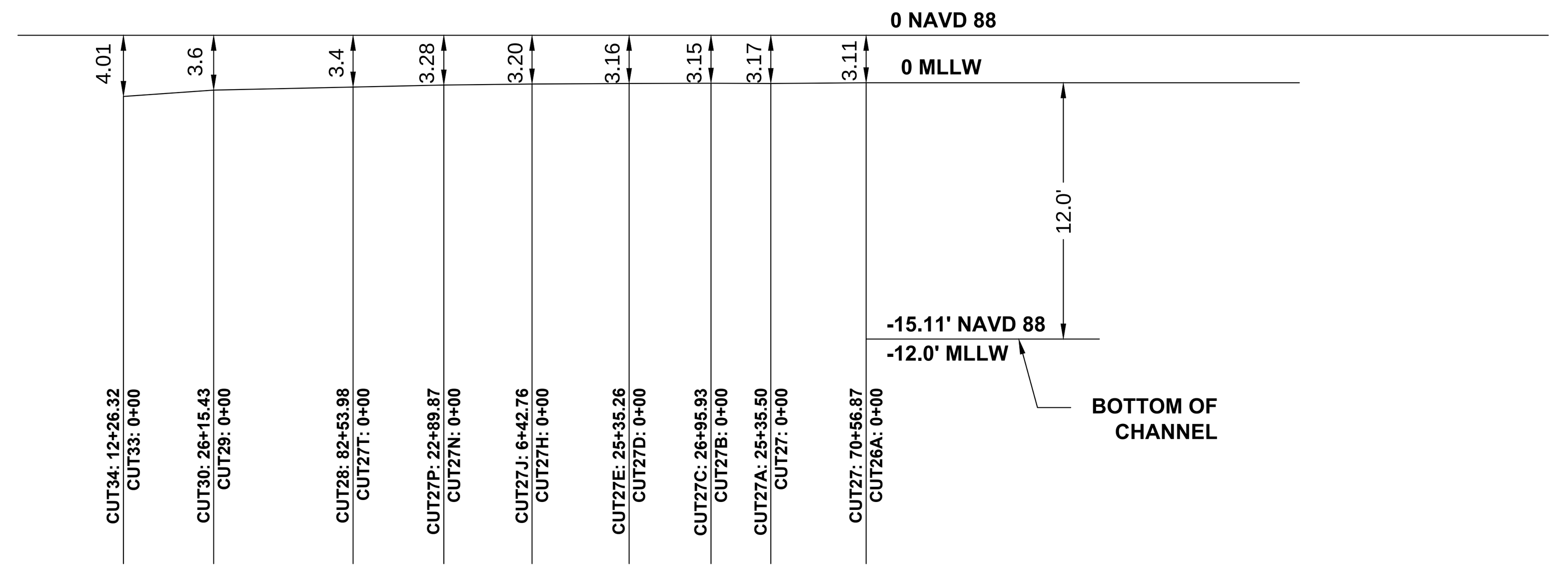
DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	AS NOTED

SHEET: C1

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS:18

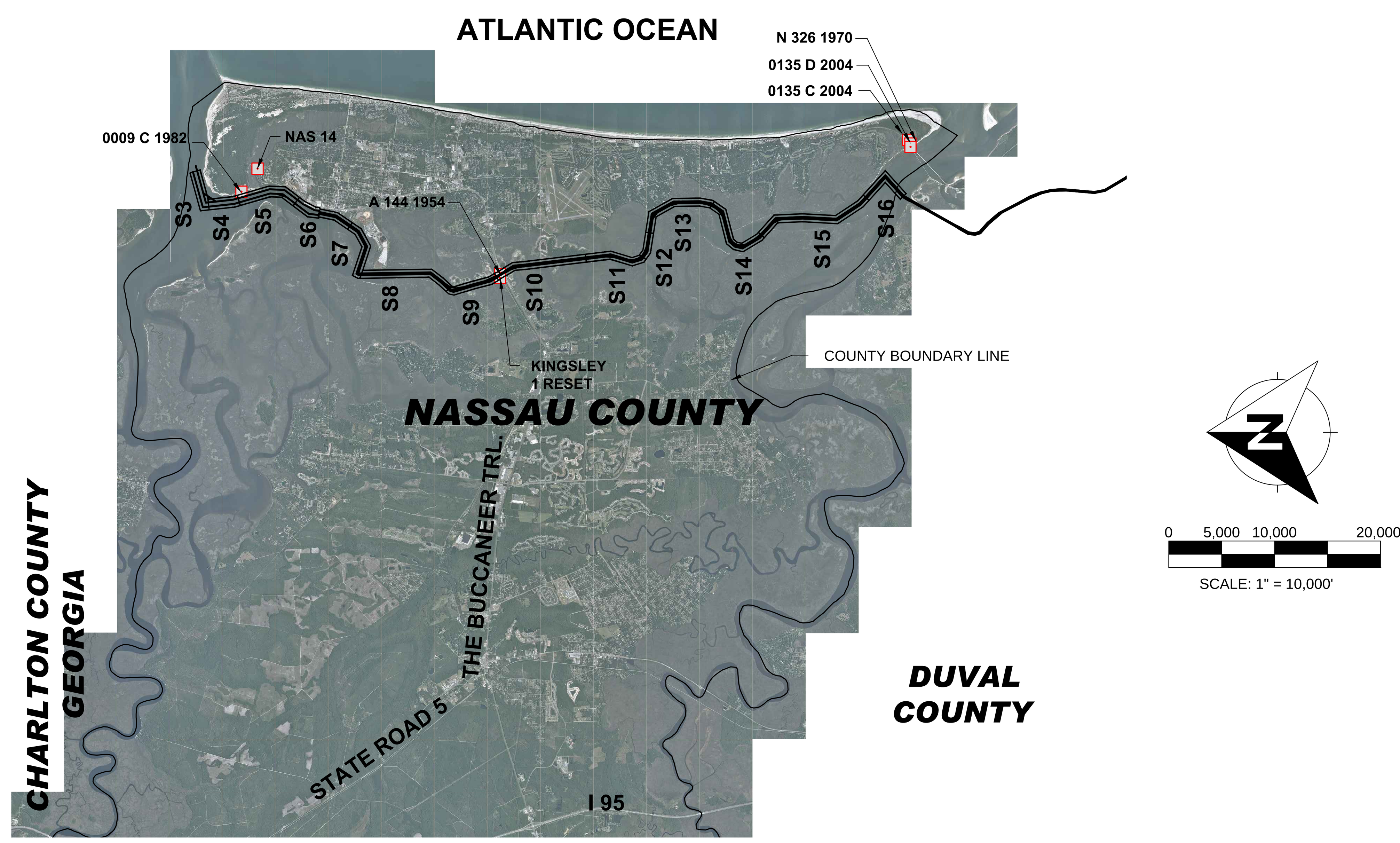
SDI P.N. 13-2078

HYDROGRAPHIC SURVEY
OF THE INTRACOASTAL WATERWAY
NASSAU COUNTY, FLORIDA



RELATIONSHIP BETWEEN NAVD 88 AND MLLW

(BASED UPON NOAA VDATUM CONVERSION) (NOT TO SCALE)



CHANNEL CENTERLINE

NAME	NAD 83/90 SPCS EASTING FEET	NORTHING FEET
NA 25	503194.71	2294444.25
NA 24	502369.26	2293537.33
NA 23	502297.26	2293249.32
NA 22	502874.30	2291307.27
NA 21	503264.33	2289807.23
NA 20	504614.38	2287567.18
NA 19	504691.99	2286627.21
NA 18	505674.54	2278431.92
NA 17	505054.57	2276396.85
NA 16	505334.58	2275516.82
NA 15	506009.60	2275026.82
NA 14	509544.64	2274471.85
NA 13	510659.68	2272471.80
NA 12	510684.73	2270001.73
NA 11	510499.74	2268926.69
NA 10	509769.75	2267871.65
NA 9	506969.74	2267156.59
NA 8	506559.74	2266661.57
NA 7	506399.75	2265991.55
NA 6	507354.79	2264396.51
NA 5	509099.83	2262821.49
NA 4	509204.88	2260288.41
NA 3	509034.93	2257096.31
NA 2	510519.98	2254846.27
NA 1	513105.04	2252496.23

SHEET DESCRIPTION

	NORTH LIMITS		SOUTH LIMITS	
SHEET NAME	CUT	STATION	CUT	STATION
S3	CUT1	0+00	CUT2	4+00
S4	CUT2	4+00	CUT3	5+00
S5	CUT3	5+00	CUT5	15+00
S6	CUT5	15+00	CUT8	16+00
S7	CUT8	16+00	CUT12	32+00
S8	CUTB	32+00	CUT34	10+00
S9	CUT34	10+00	CUT30	7+00
S10	CUT30	7+00	CUT28	59+00
S11	CUT28	59+00	CUT27R	2+00
S12	CUT27R	2+00	CUT27Q	18+00
S13	CUT27Q	18+00	CUT27K	1+00
S14	CUT27K	1+00	CUT27F	3+00
S15	CUT27F	3+00	CUT27B	8+00
S16	CUT27B	8+00	CUT27A	0+00

ICWW ESTIMATED DREDGE VOLUMES (CUBIC YARDS) - NASSAU COUNTY

CUT NUMBER	CUT (DESIGN EL. -12 FEET MLLW)	CUT (DESIGN EL. -13 FEET MLLW)	CUT (DESIGN EL. -14 FEET MLLW)
CUT 1	0	0	0
CUT 2	0	0	0
CUT 3	0	0	0
CUT 4	0	0	0
CUT 5	0	0	0
CUT 6	0	0	0
CUT 7	0	0	0
CUT 8	1,248	2,723	4,689
CUT 9	13,408	20,966	29,040
CUT 10	39,942	52,222	64,844
CUT 11	0	0	0
CUT B	90,864	119,846	149,721
CUT A	11	190	672
CUT 34	2,733	4,651	7,223
CUT 33	1,567	2,319	3,216
CUT 32	4,076	6,704	99,421
CUT 31	0	0	0
CUT 30	7,564	10,849	14,613
CUT 29	107	190	318
CUT 28	77	217	481
CUT 27R	4,763	7,689	11,194
CUT 27T	0	0	0
CUT 27S	10,055	13,918	18,292
CUT 27Q	17,983	28,975	41,190

ICWW ESTIMATED DREDGE VOLUMES (CUBIC YARDS) - NASSAU COUNTY

CUT NUMBER	CUT (DESIGN EL. -12 FEET MLLW)	CUT (DESIGN EL. -13 FEET MLLW)	CUT (DESIGN EL. -14 FEET MLLW)
CUT 27P	0	30	557
CUT 27N	0	383	2,828
CUT 27M	16	243	1,260
CUT 27L	2,817	6,224	10,905
CUT 27K	30,210	42,296	55,990
CUT 27J	19,419	24,314	29,210
CUT 27H	19,015	24,553	30,092
CUT 27G	1,416	5,524	11,517
CUT 27F	194	1,177	3,490
CUT 27E	0	0	0
CUT 27D	0	0	432
CUT 27C	722	2,978	10,862
CUT 27B	70	296	773
CUT 27A	1,638	6,763	12,576

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INDEX SHEET - SHEET STATIONING TABULATION
CENTERLINE CONTROL TABULATION
DREDGE VOLUMES TABULATION

PREPARED FOR:

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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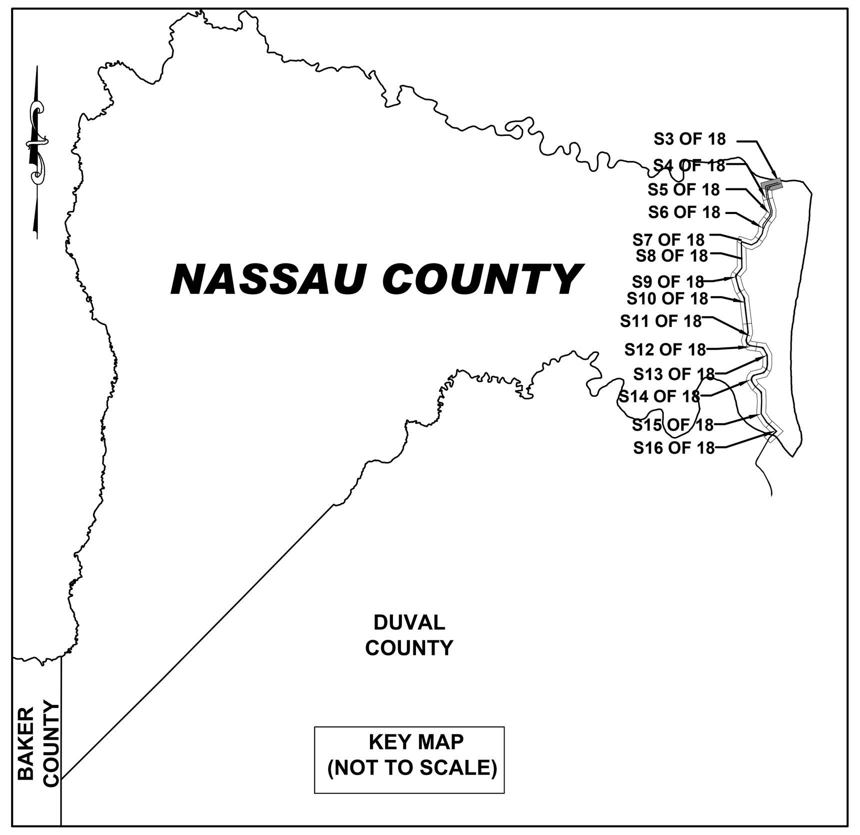
SCALE:	AS NOTED
SHEET:	C2

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS:18

SDI P.N. 13-2078



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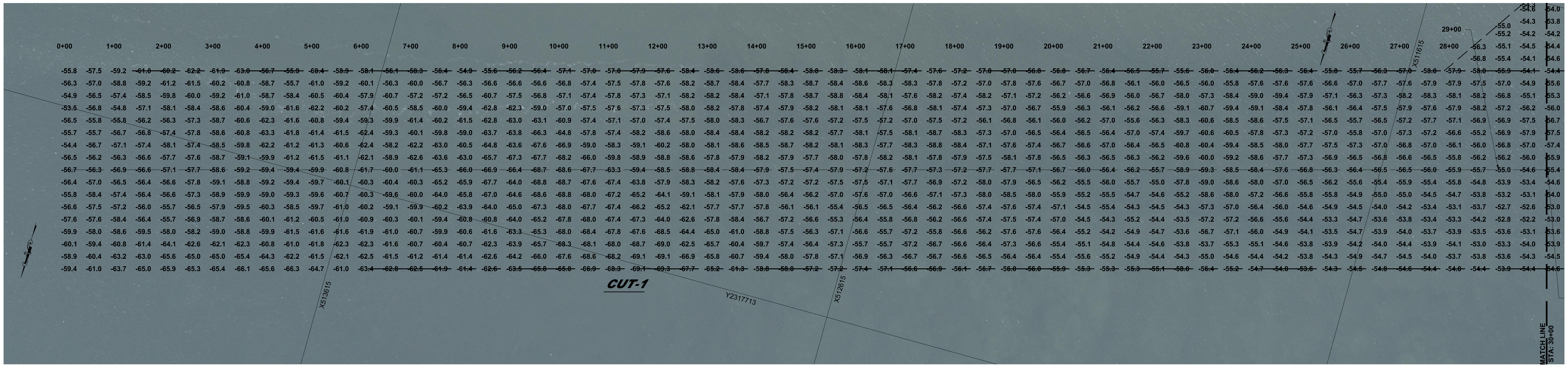

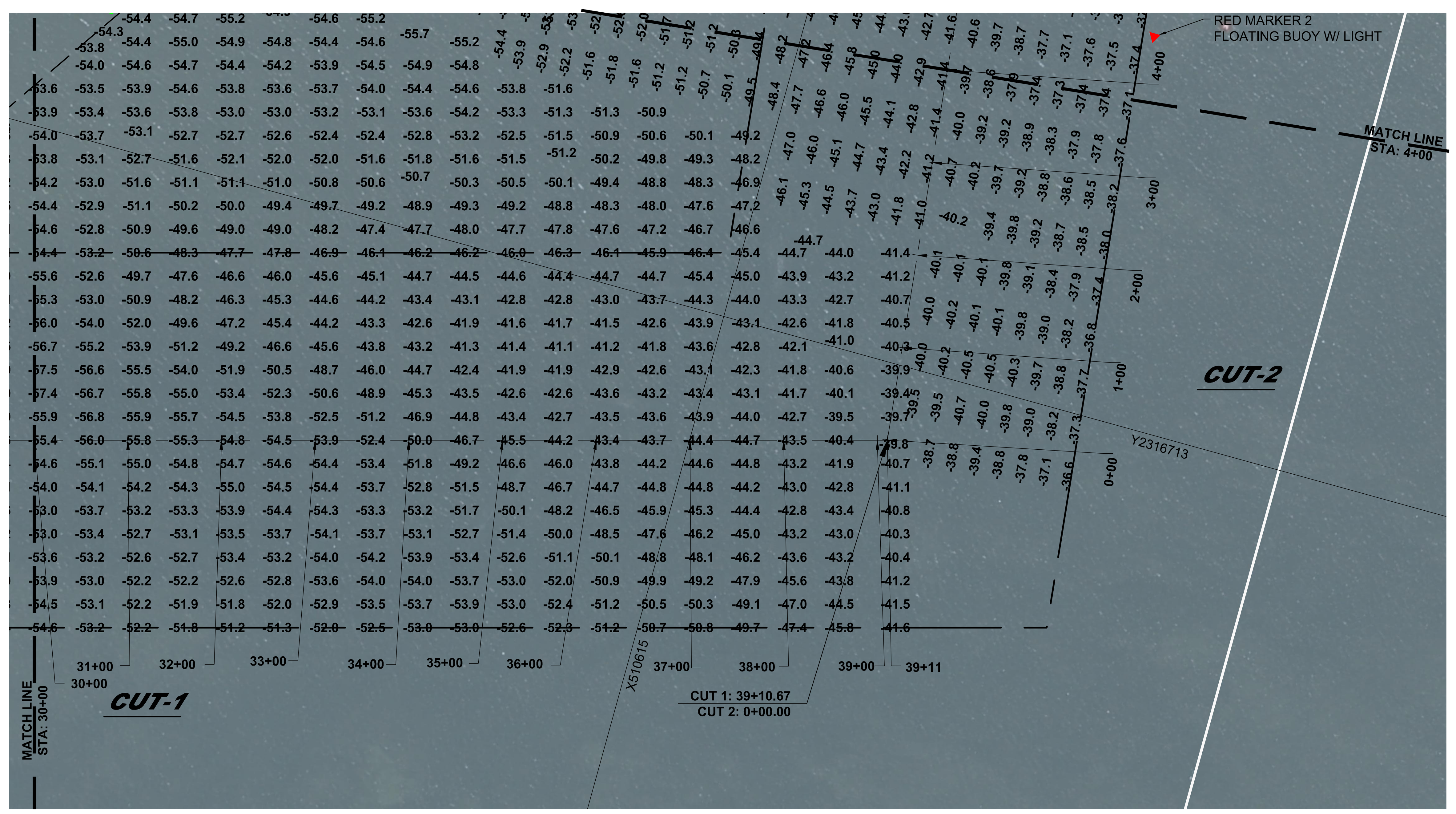

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 1 & CUT 2

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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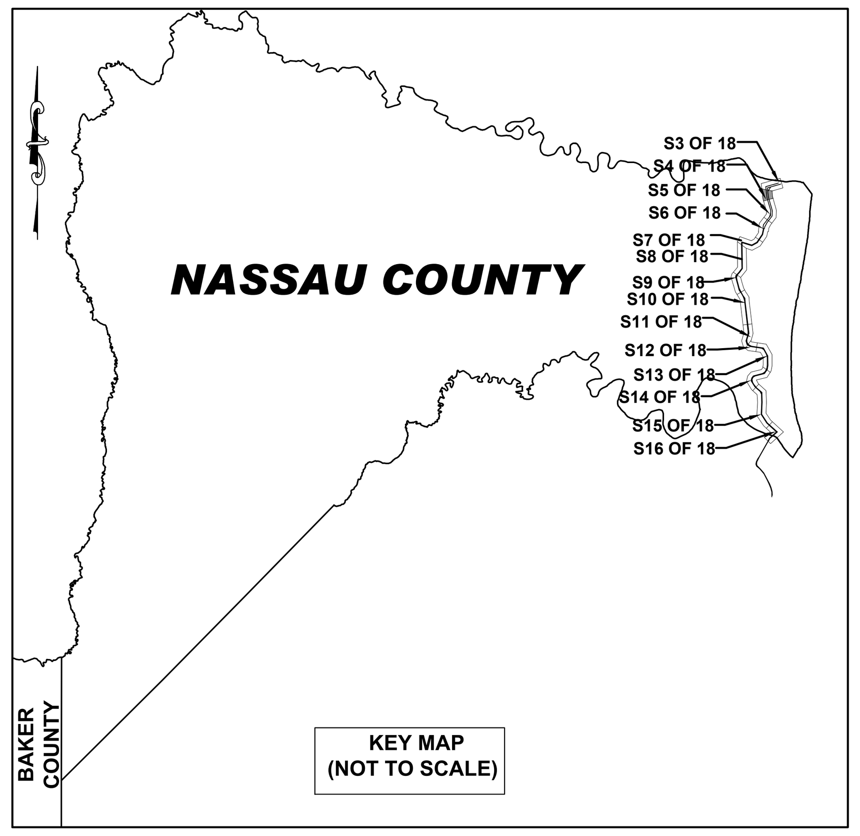
SCALE:	1" = 100'
SHEET:	

S3

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



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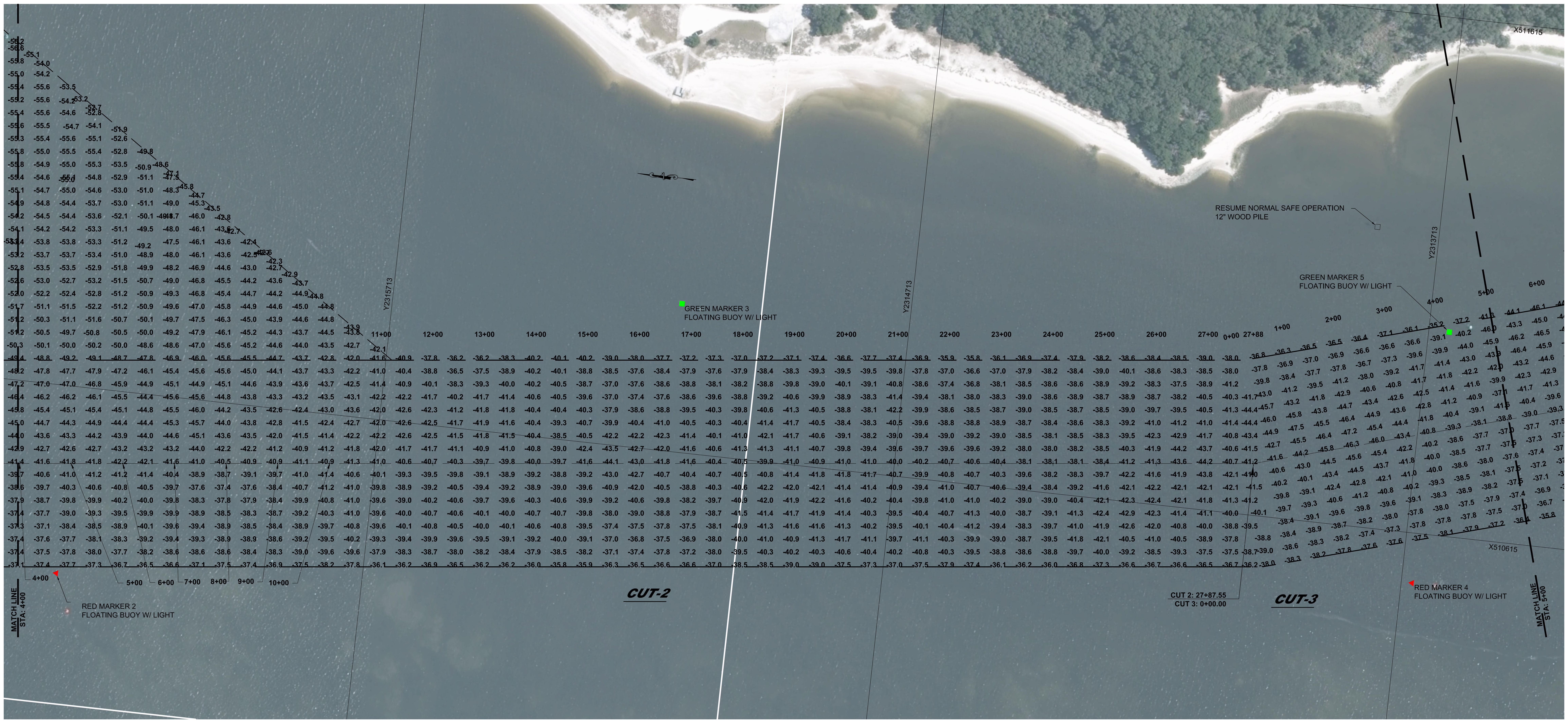

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 2 & CUT 3

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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DATE:	1-31-15
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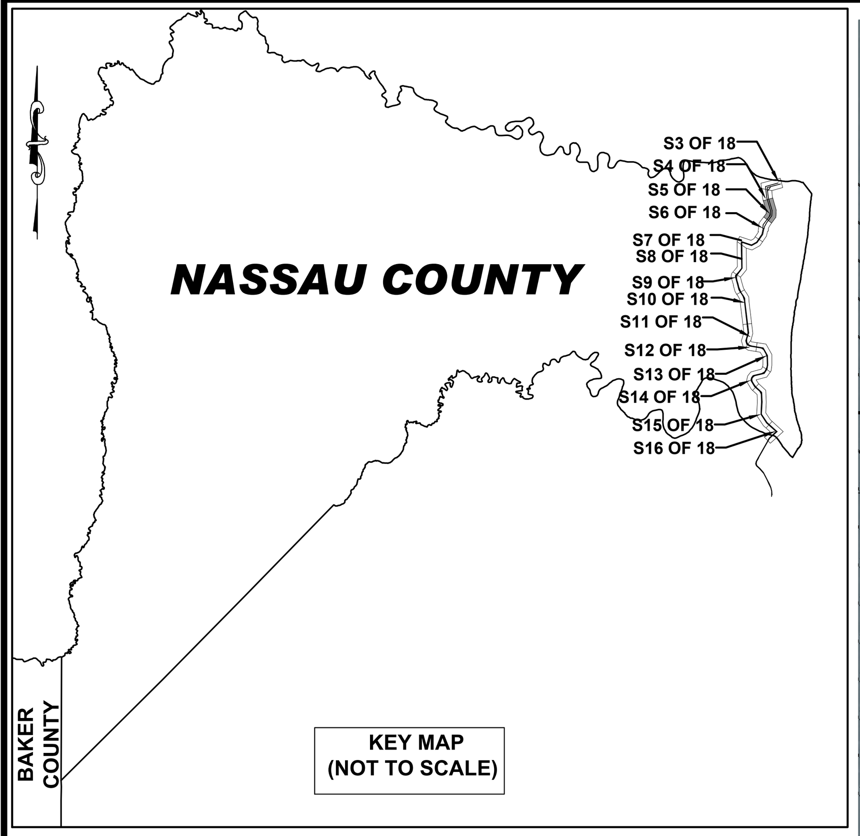
SCALE:	1" = 100'
SHEET:	S4

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



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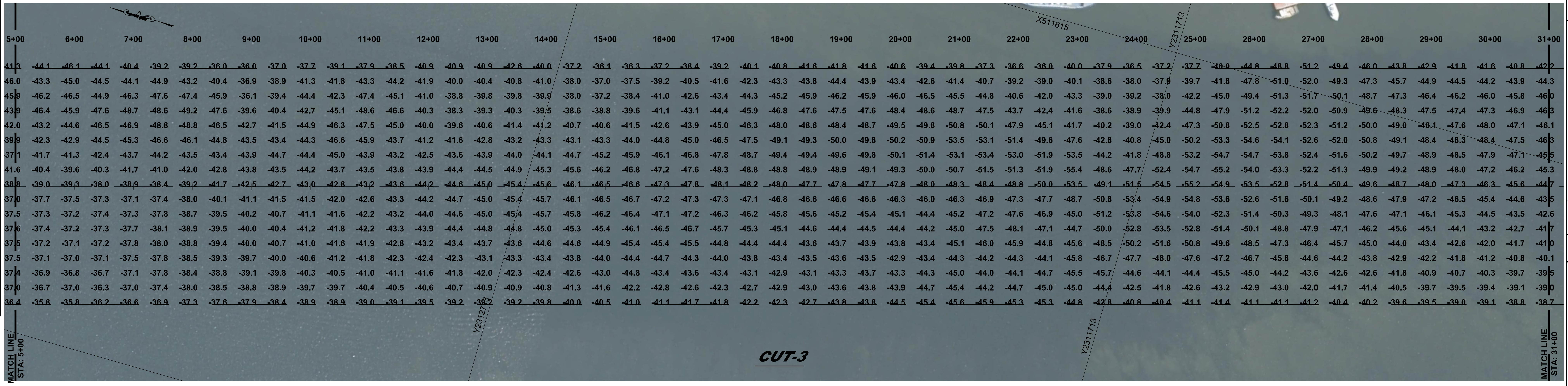

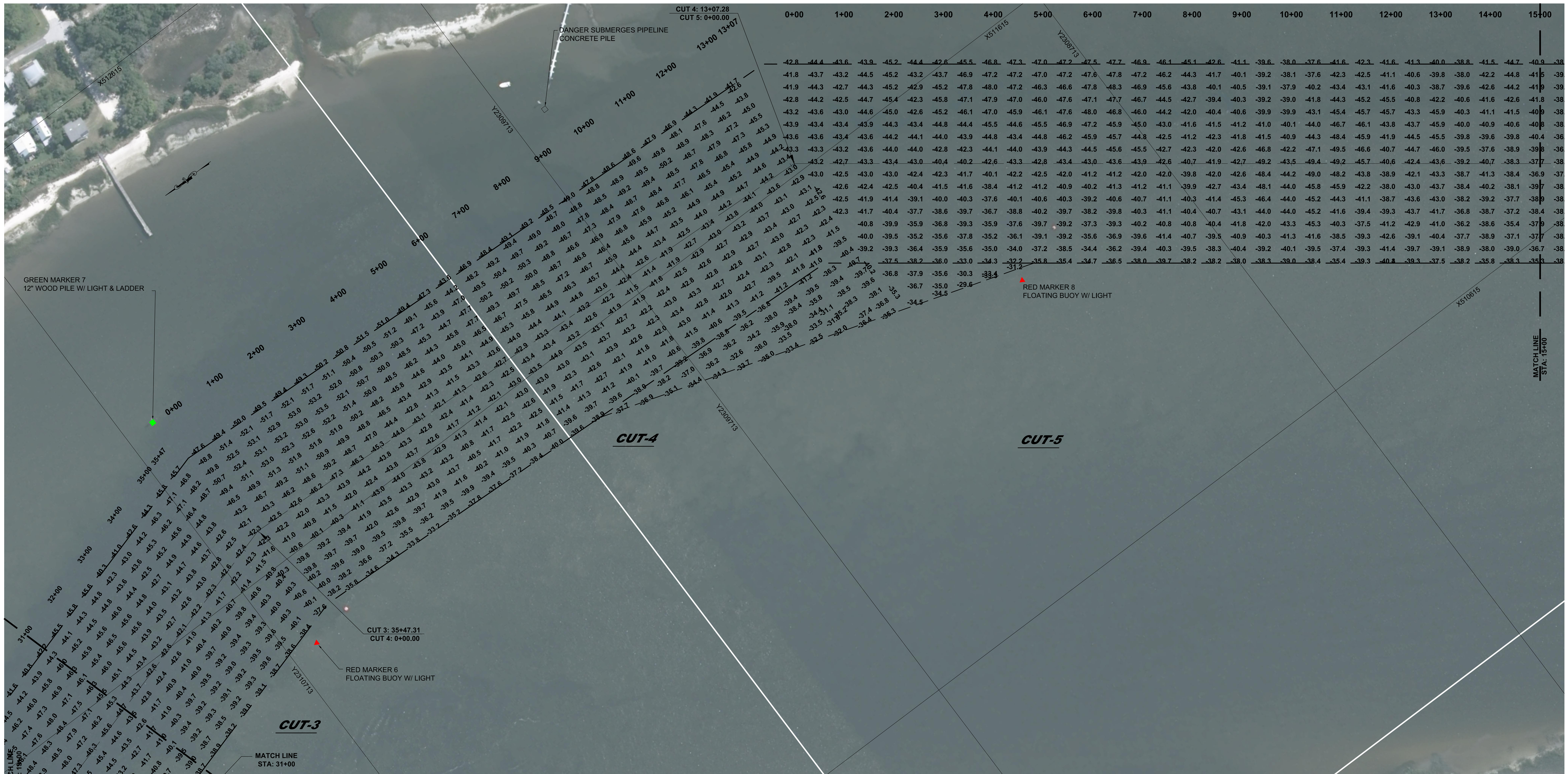

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 3, CUT 4 & CUT 5

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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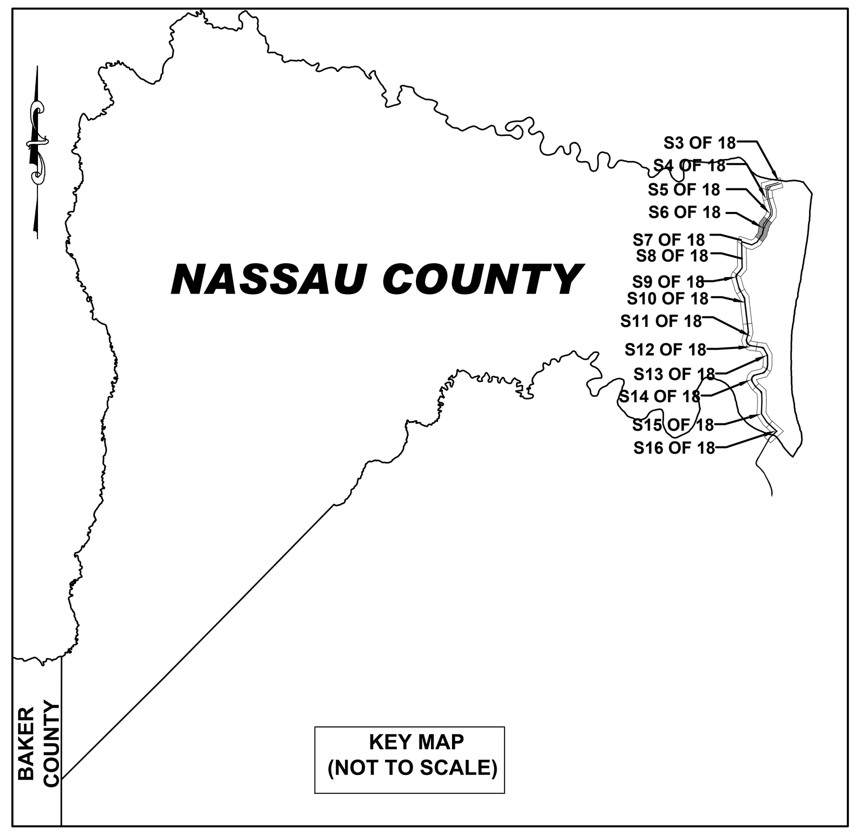
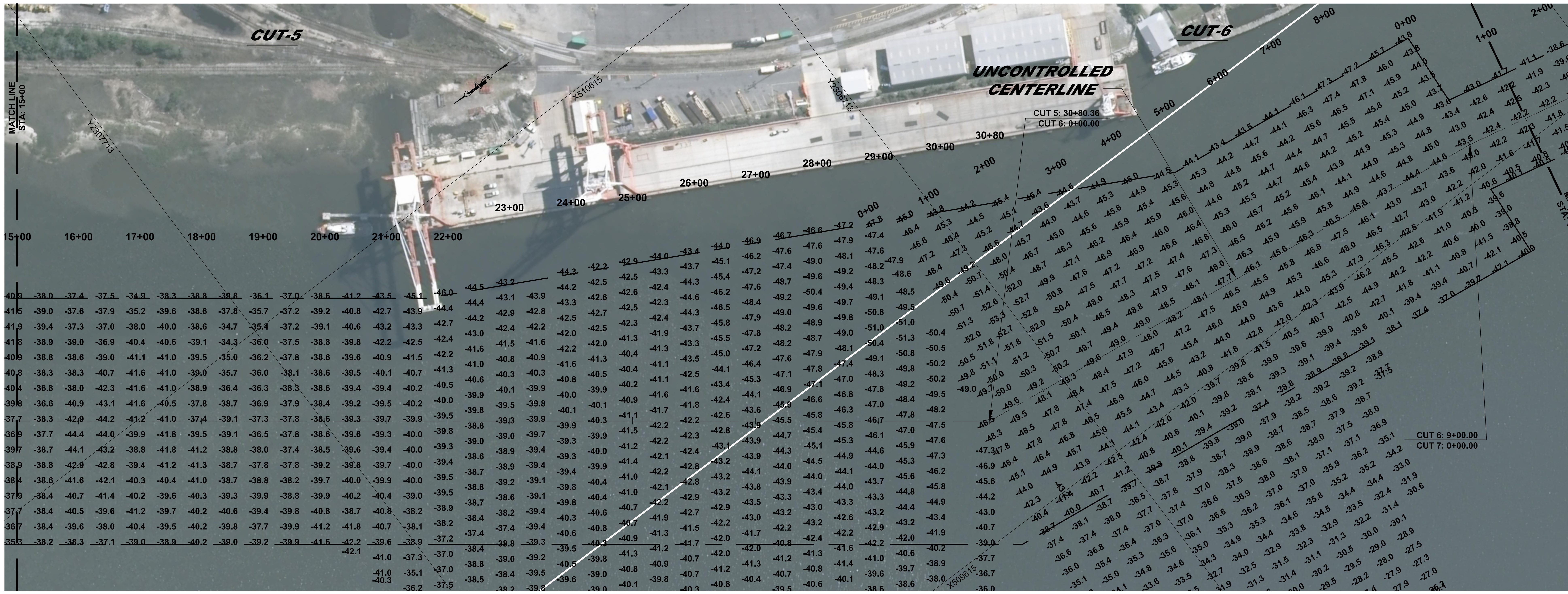
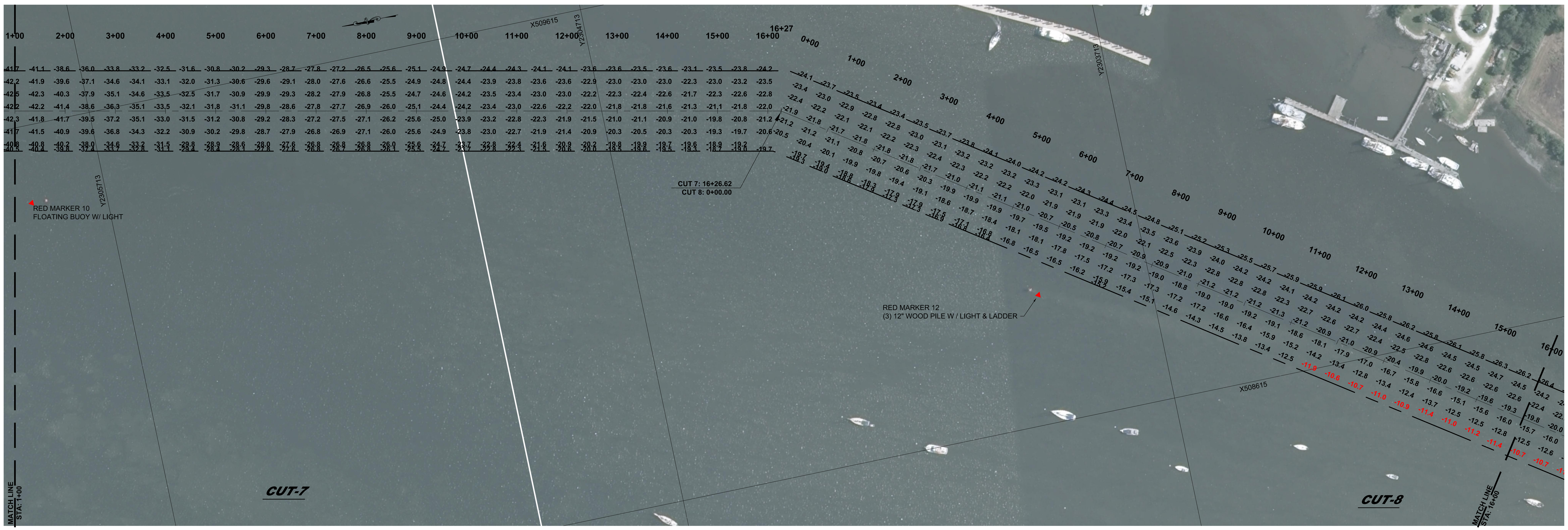
SCALE:	1" = 100'
SHEET:	S5

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078







REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 5, CUT 6, CUT 7 & CUT 8

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

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PREPARED BY: SEA DIVERSIFIED

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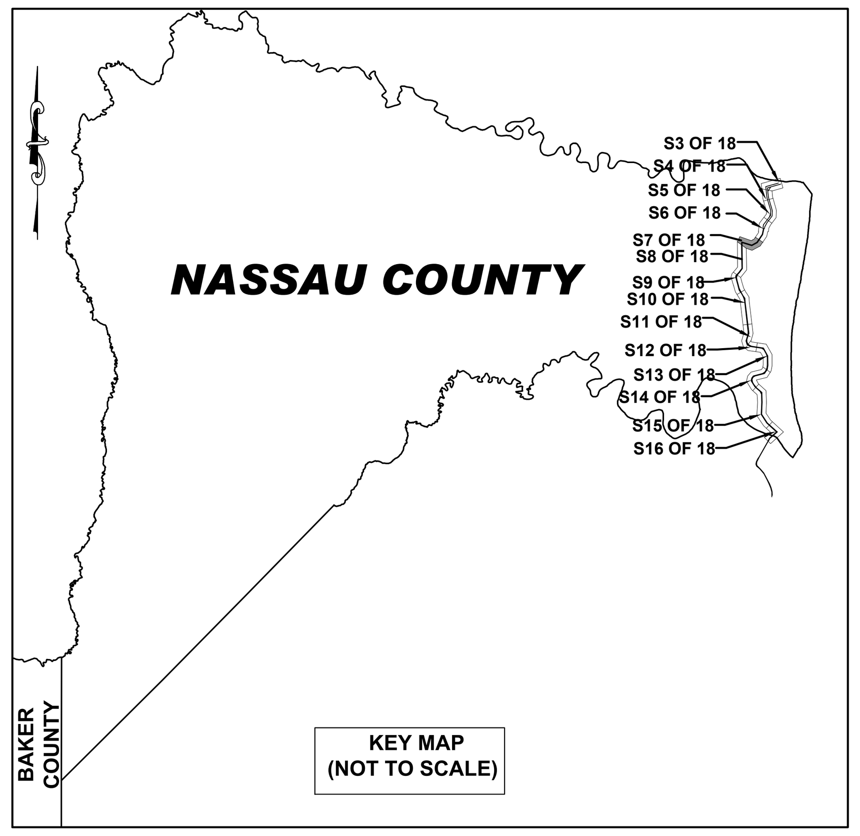
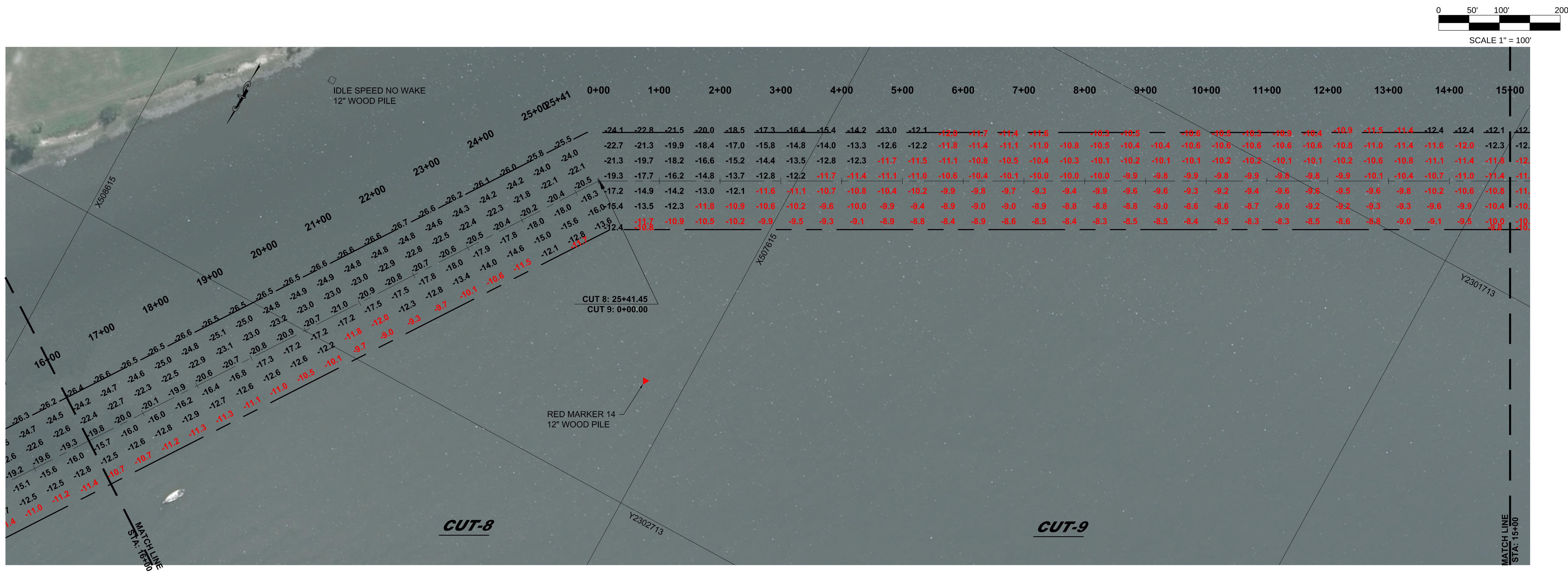
SCALE:	1" = 100'
SHEET:	

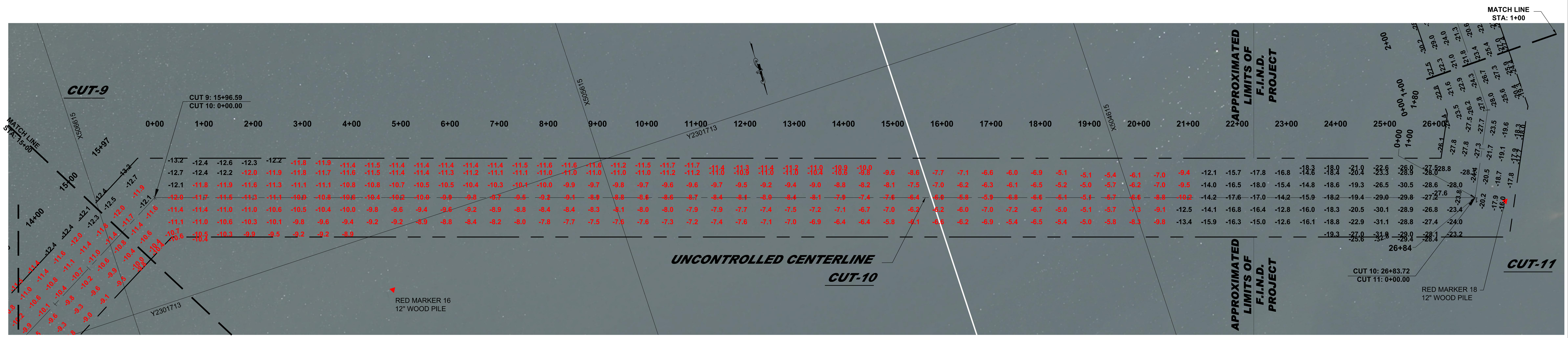
S6

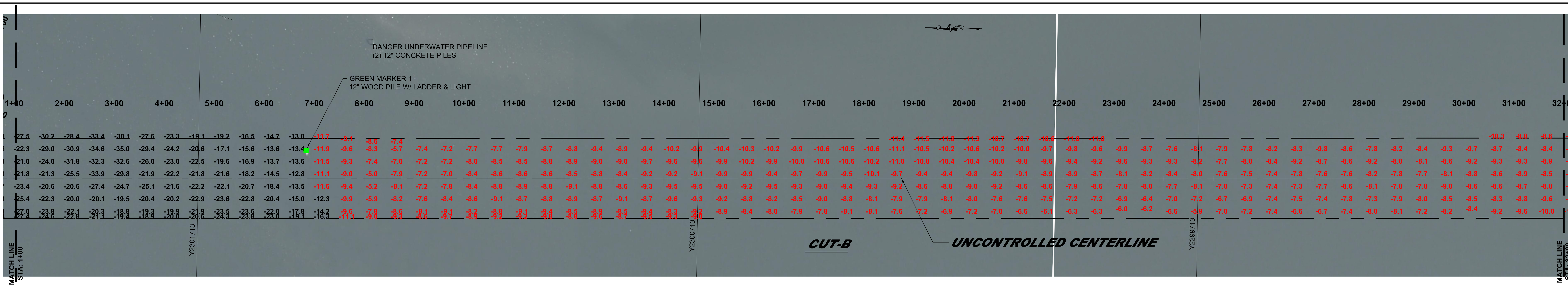
CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078









REVISIONS:

NO.	DATE:	DESCRIPTION:

PROJECT:

HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:

INTRACOASTAL CUT 8, CUT 9, CUT 10, CUT 11 & CUT 12

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
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PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
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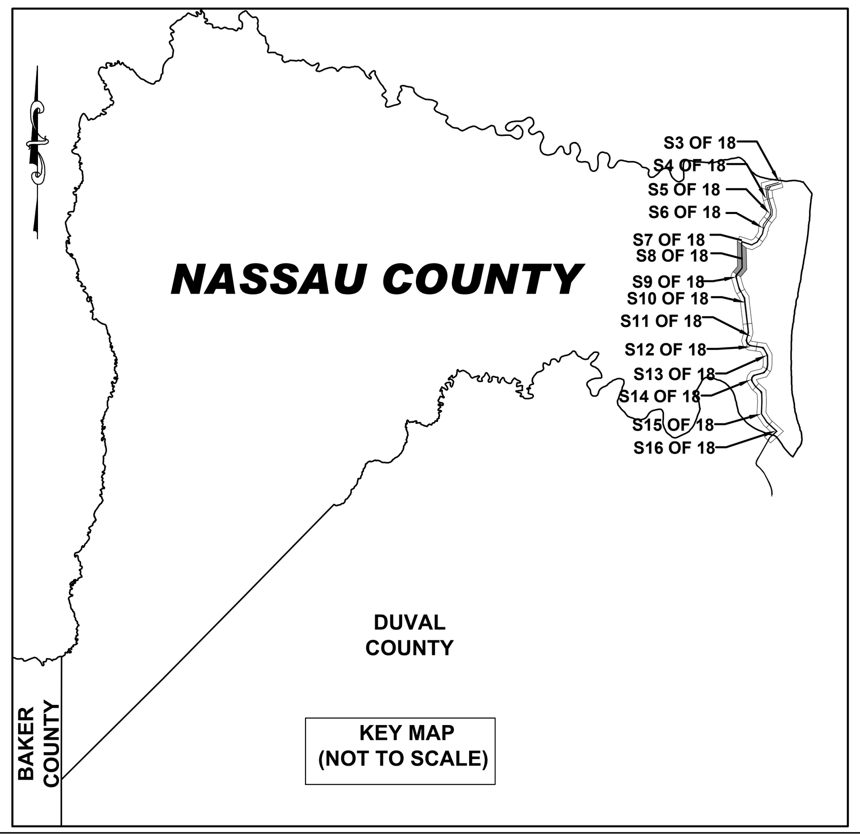
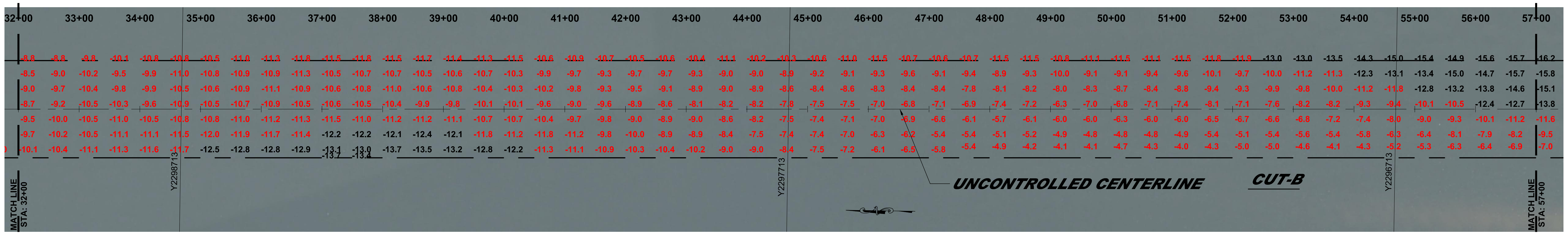
SCALE:	1" = 100'
SHEET:	S7

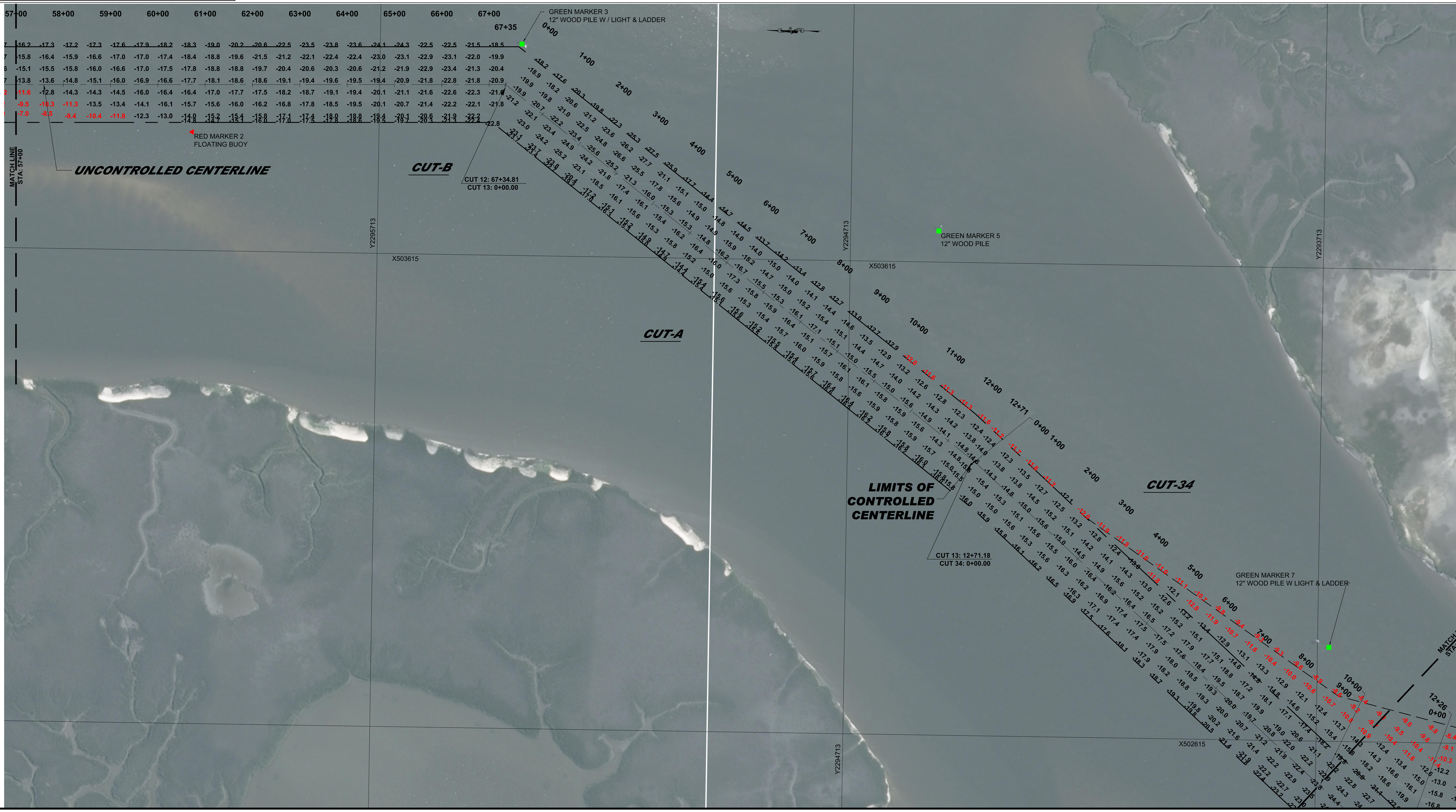
CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



SCALE 1" = 100'





REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

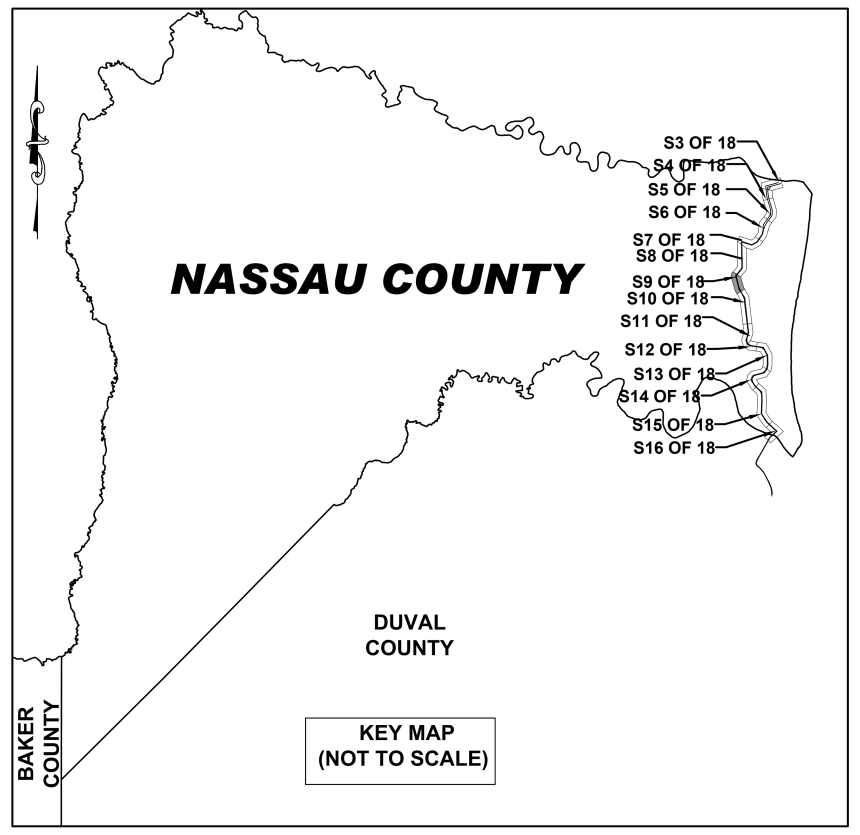
SHEET TITLE:
INTRACOASTAL CUT 12, CUT 13 & CUT 34

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

PREPARED BY:
SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	S8

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18



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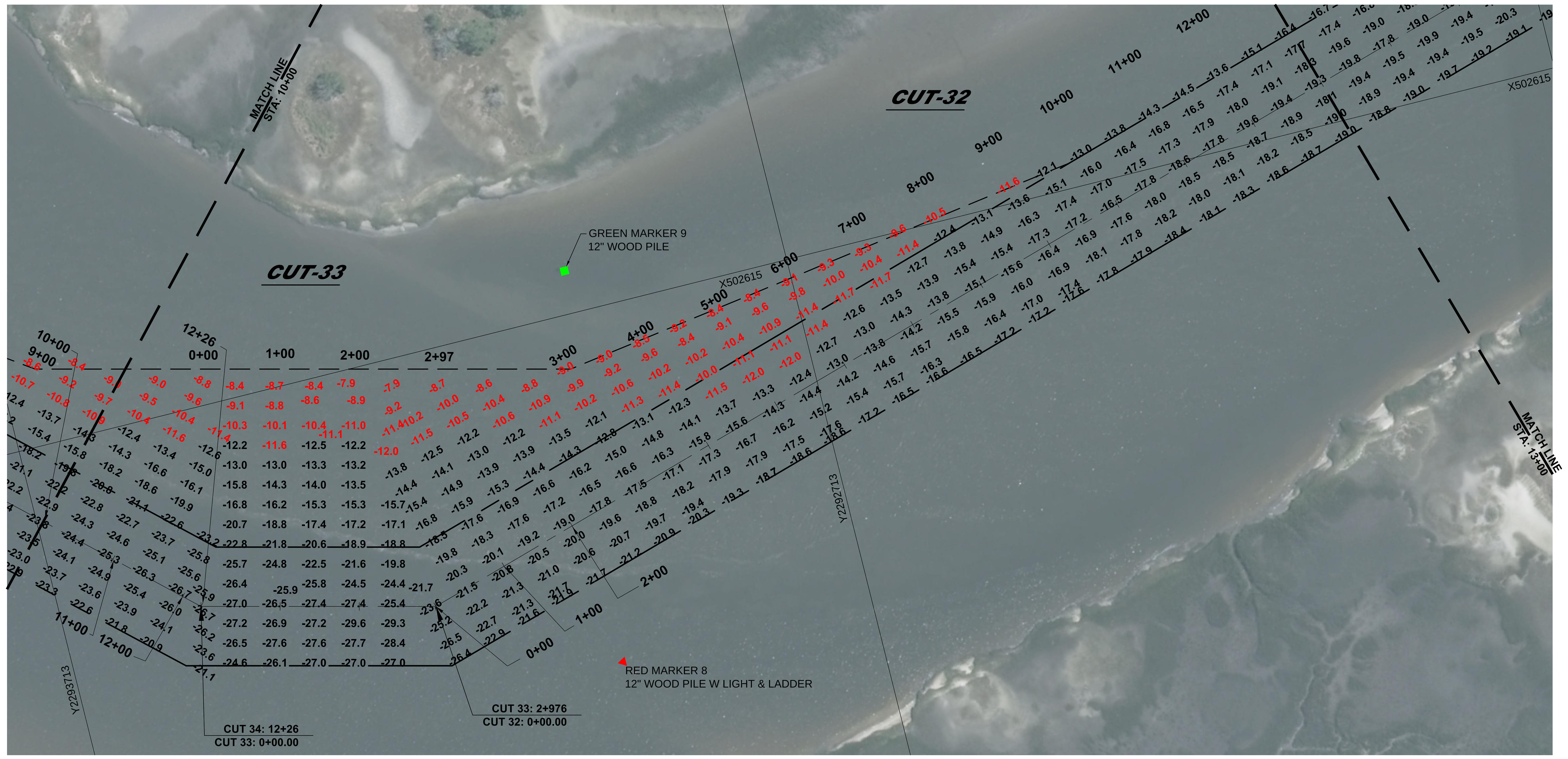
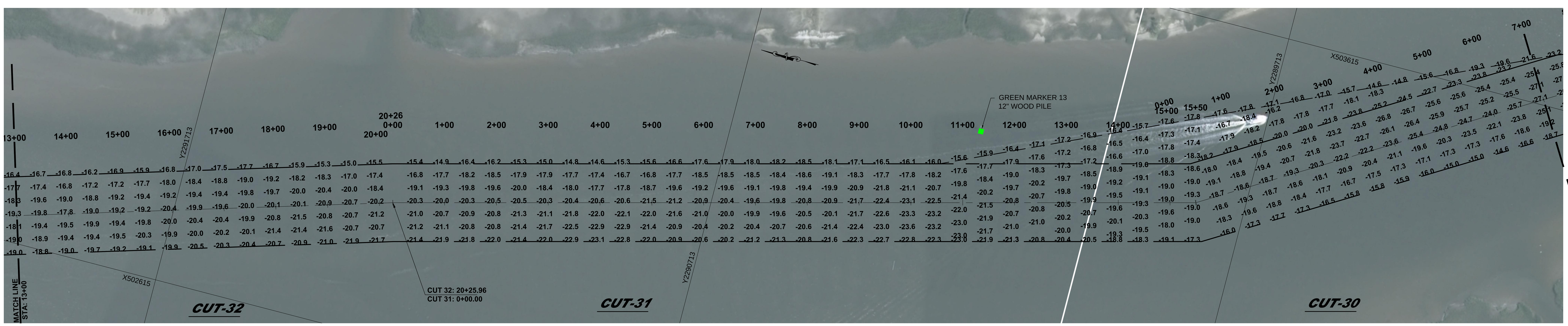
SCALE 1" = 100'





REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 34, CUT 33, CUT 32, CUT 31 & CUT 30

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

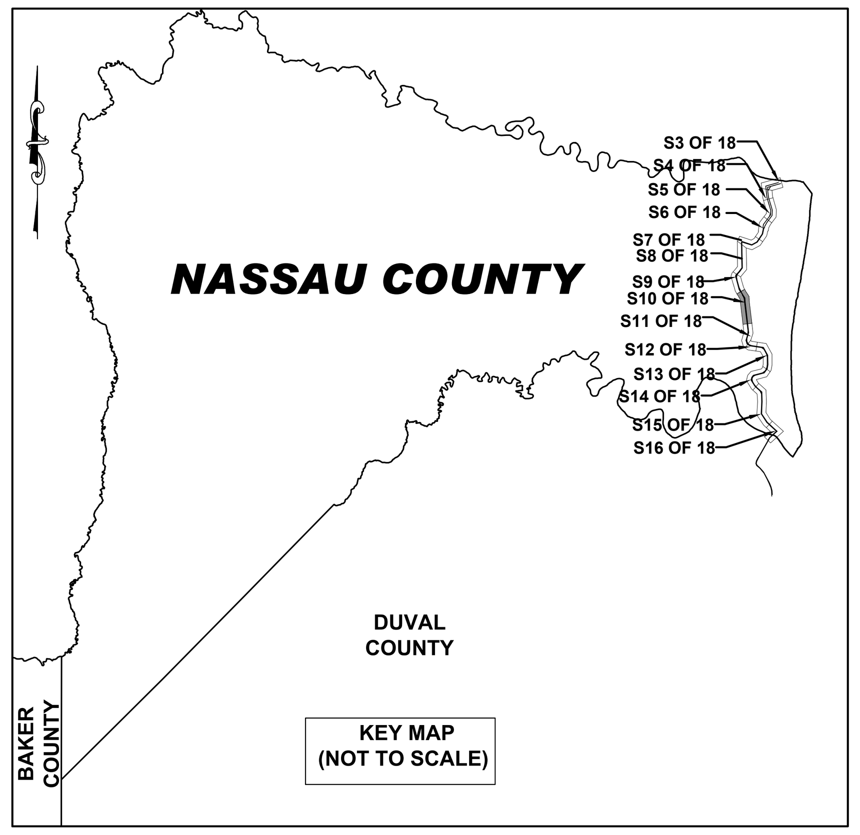
PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	

S9

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



KEY MAP (NOT TO SCALE)

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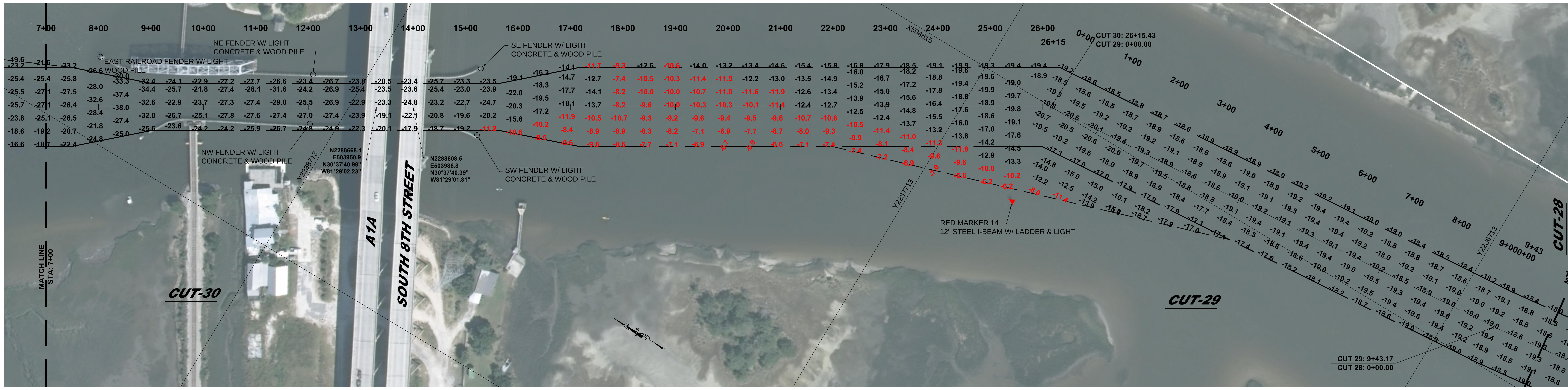
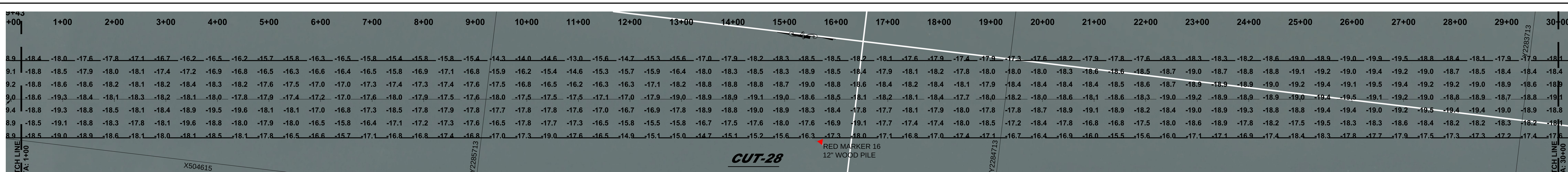
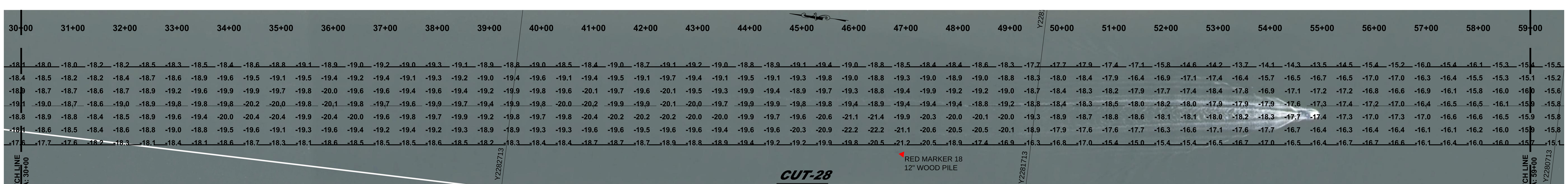
SCALE 1" = 100'







REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 30, CUT 29 & CUT 28

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

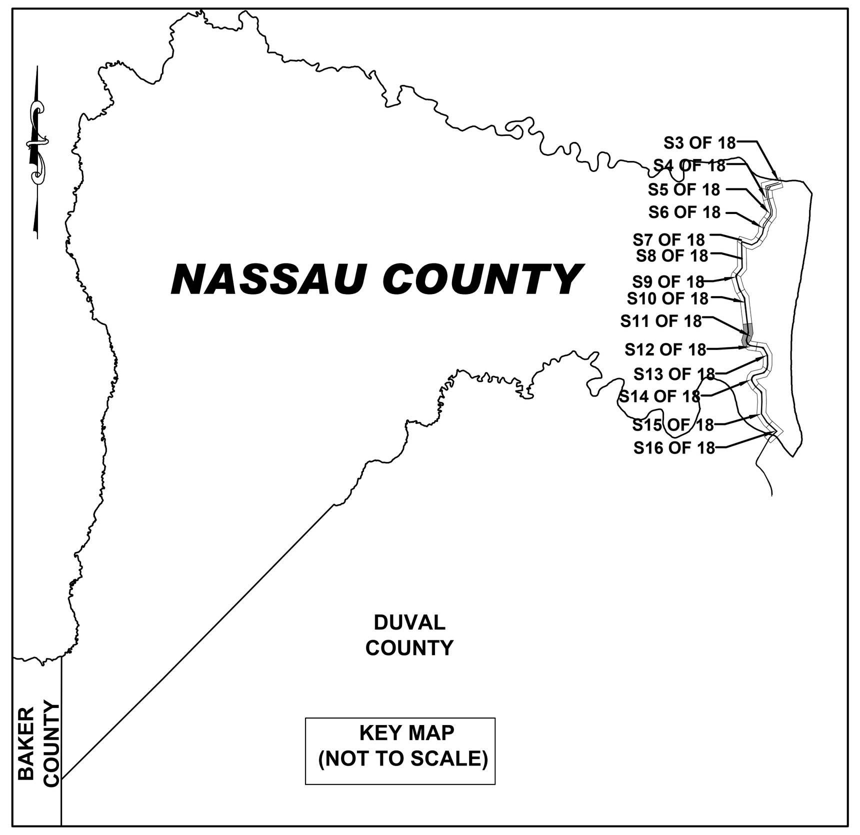
PREPARED BY:
SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

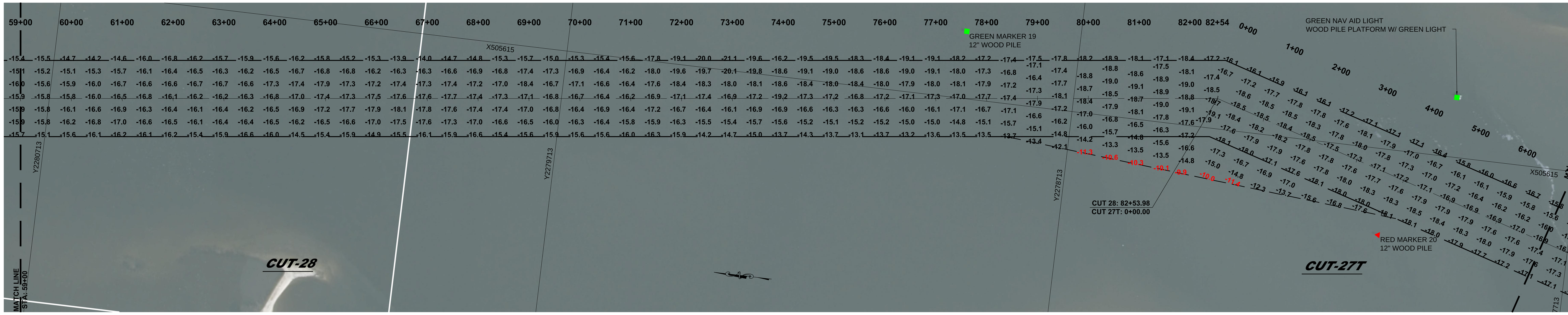
DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	S10

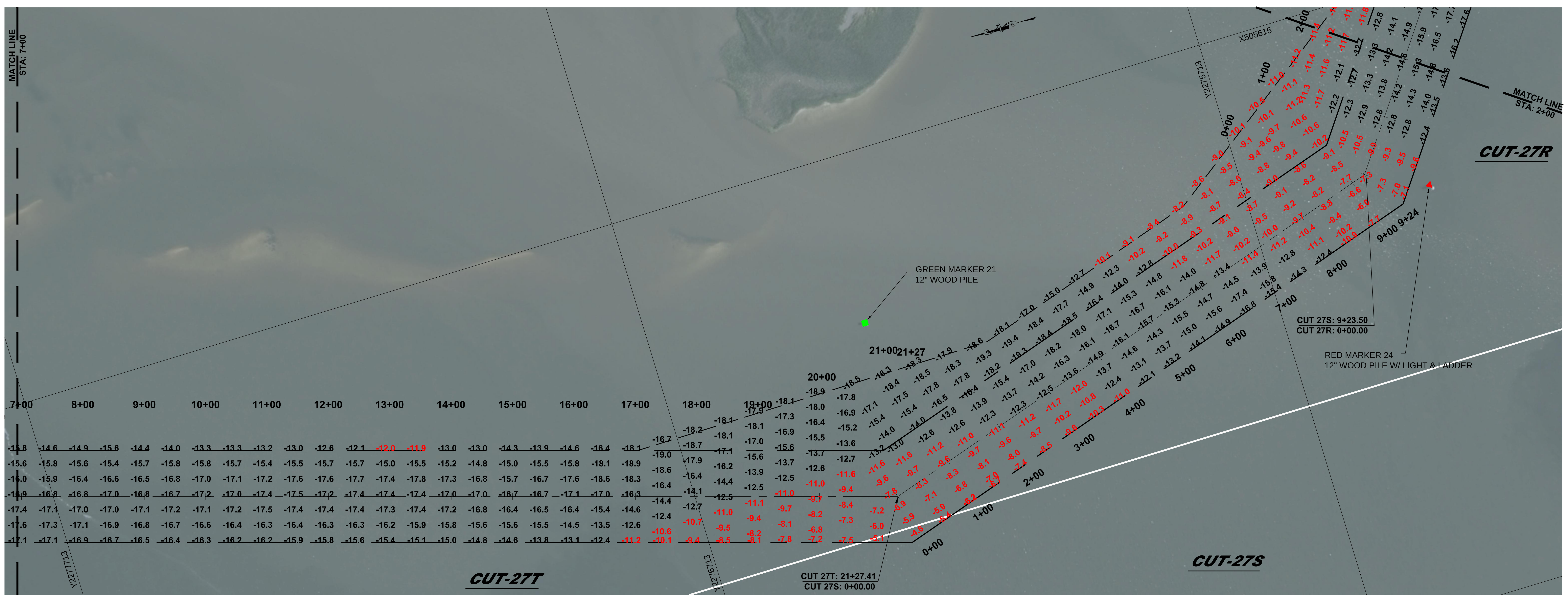
CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078

SCALE 1" = 100'







REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:

HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:

INTRACOASTAL CUT 28, CUT 27T & CUT 27R,

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

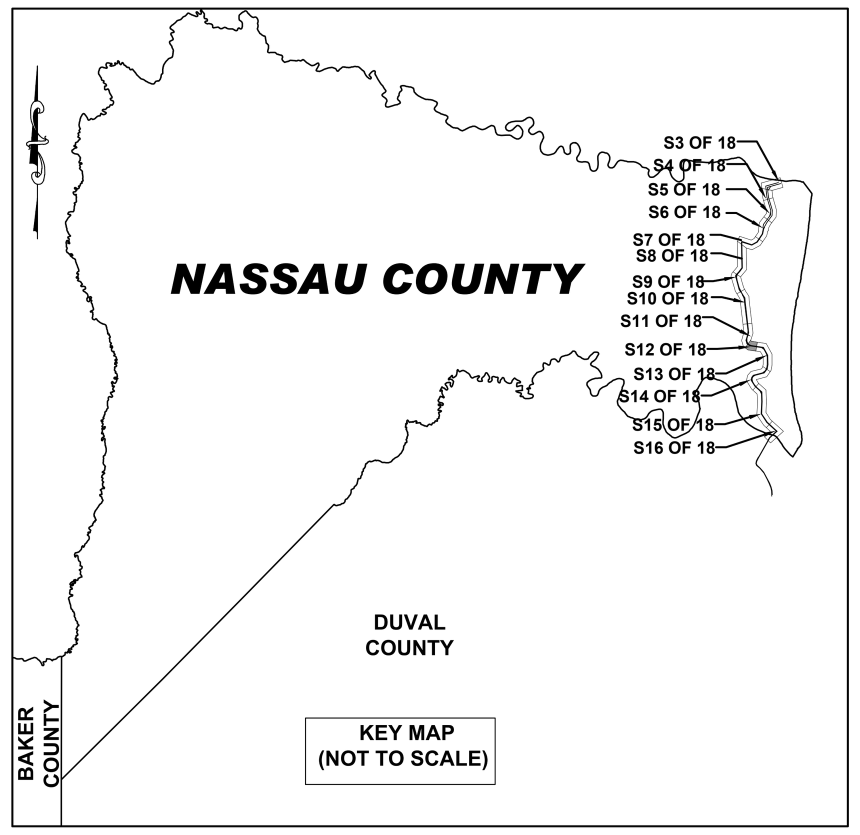
SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	S11

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



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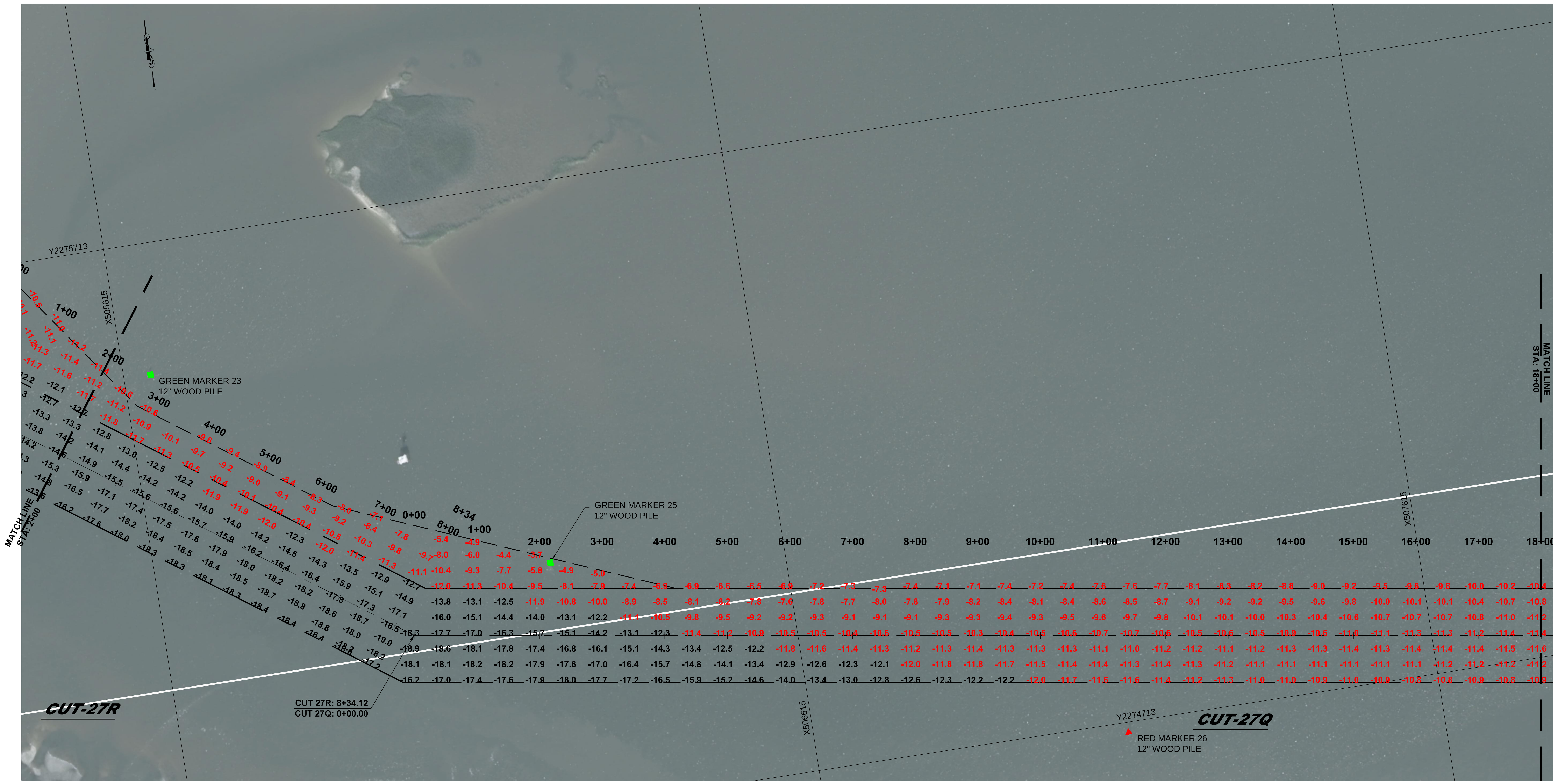
SCALE 1" = 100'



REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 27R & CUT 27Q

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

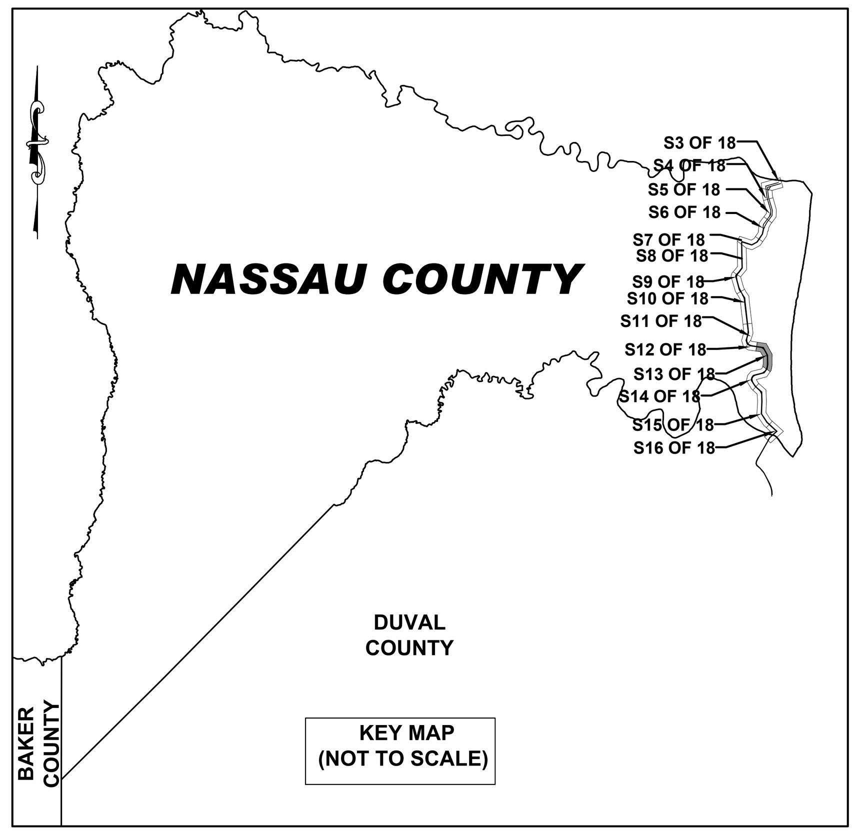
PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	

S12

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



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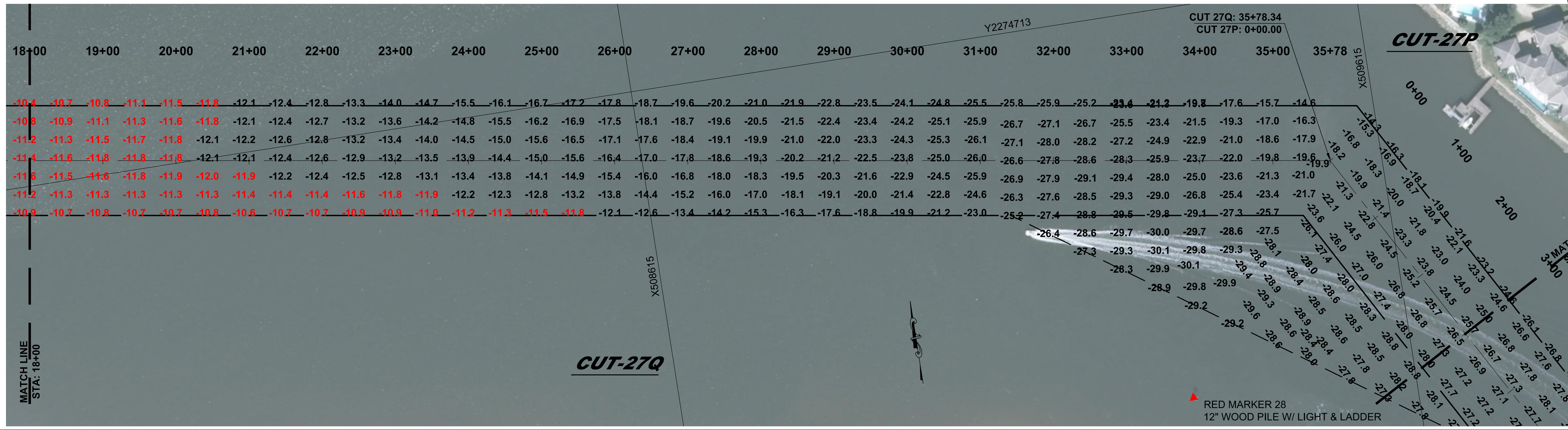
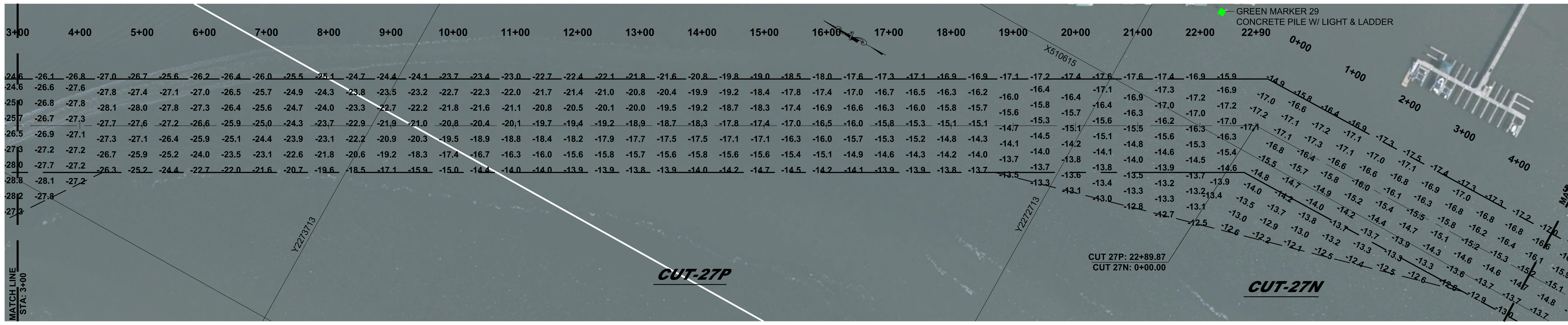
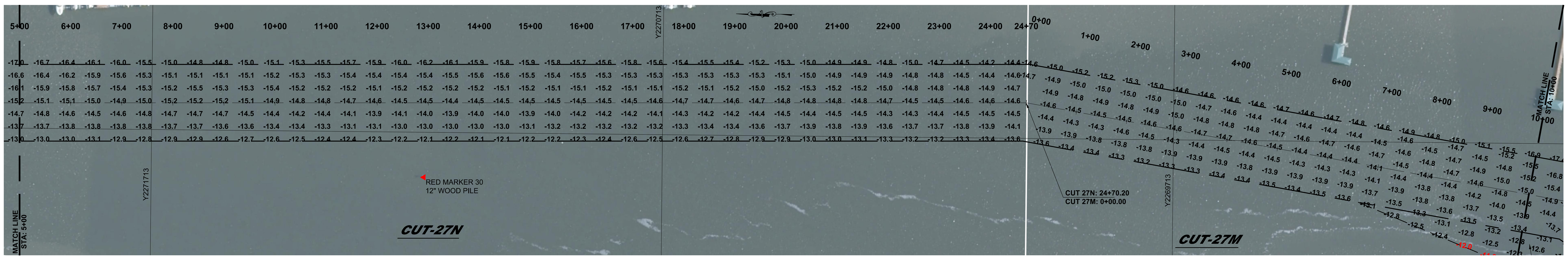
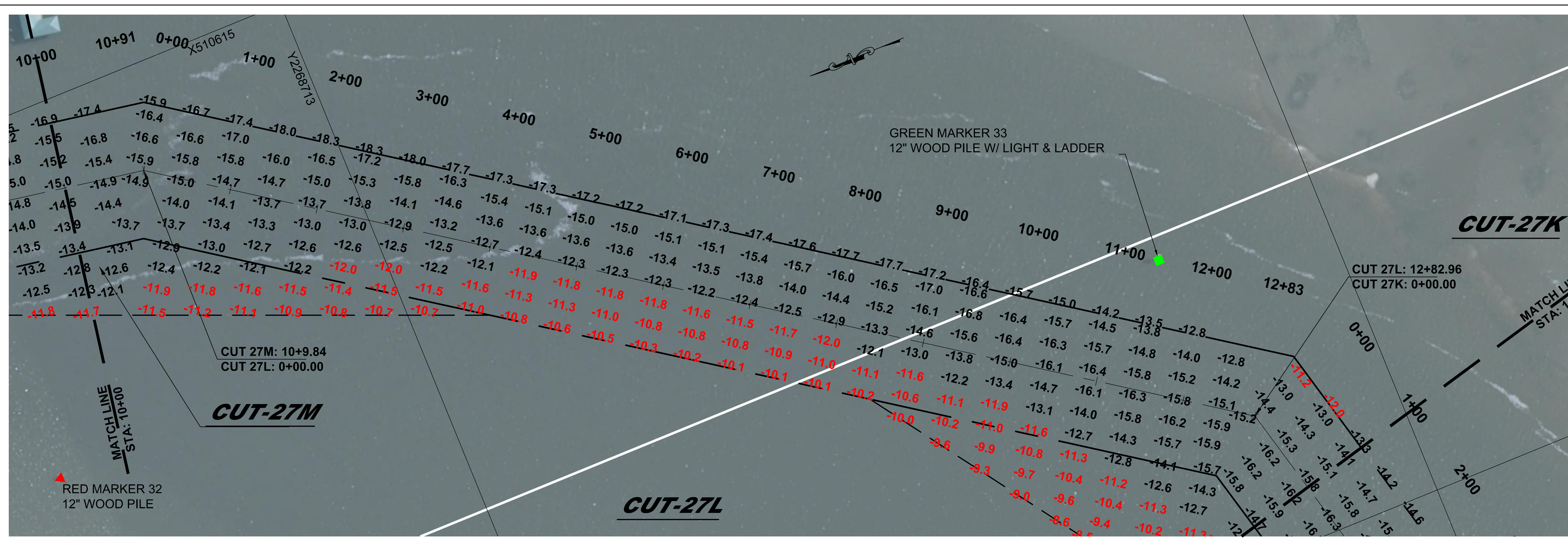








REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 27Q, CUT 27P, CUT 27L, CUT 27N, CUT 27M, CUT L & CUT K

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

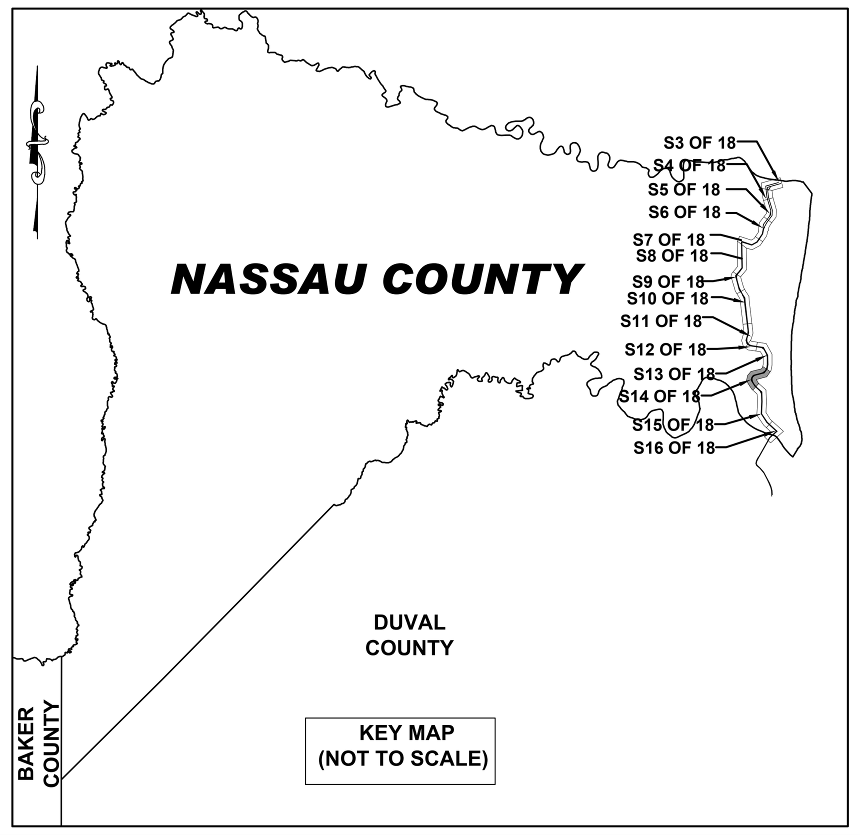
SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

PREPARED BY: SEA DIVERSIFIED

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	S13

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

SDI P.N. 13-2078



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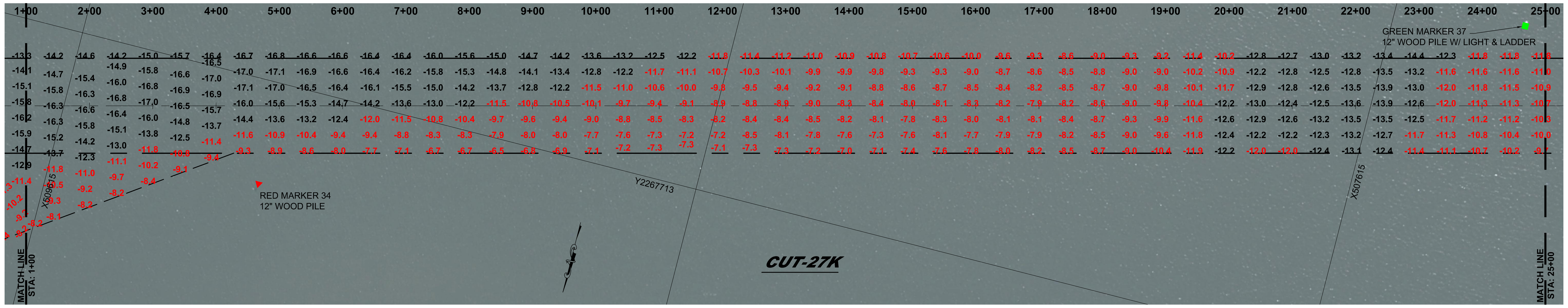
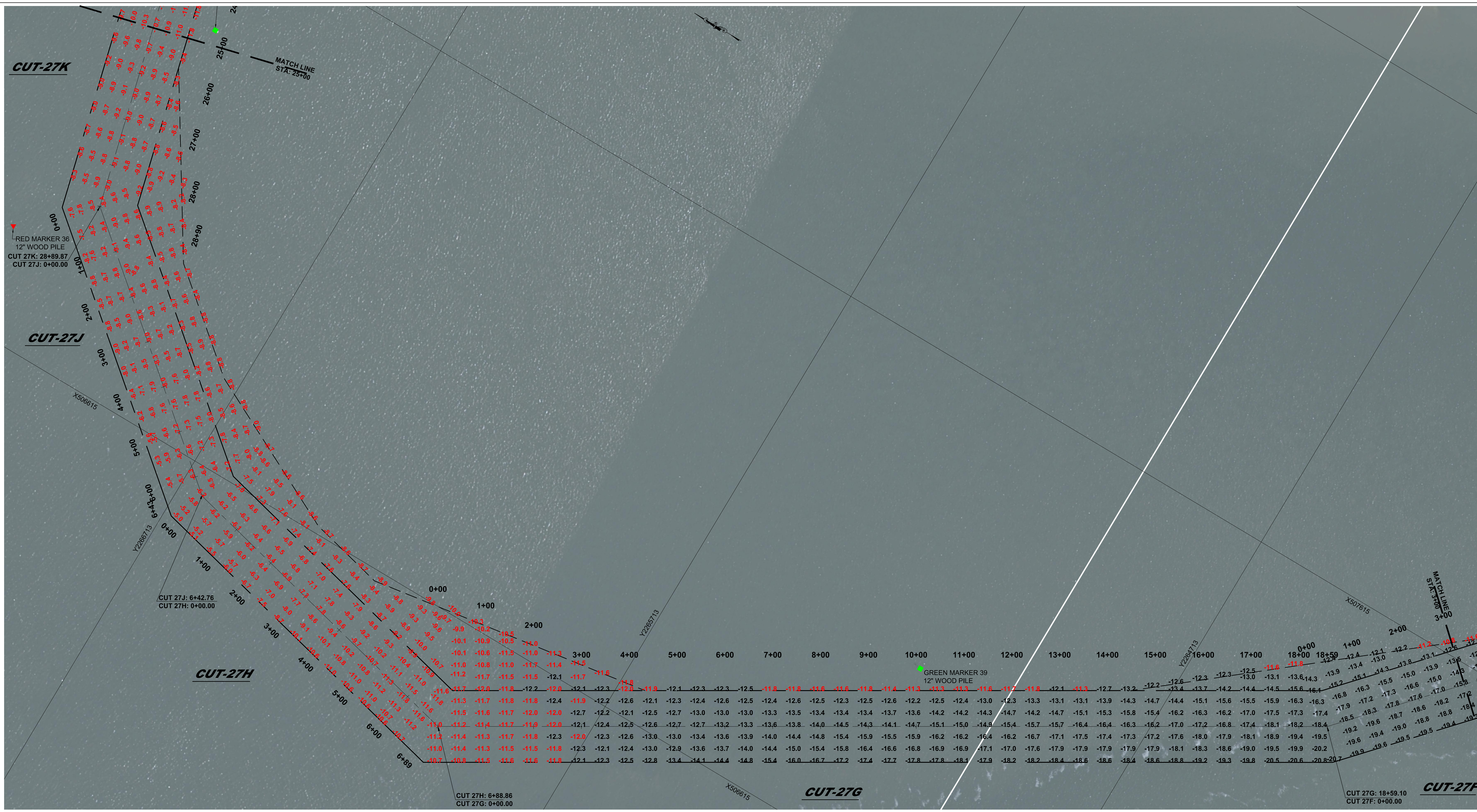




REVISIONS:

NO.	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 27K, CUT 27J, CUT 27H, CUT 27G & CUT 27F

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

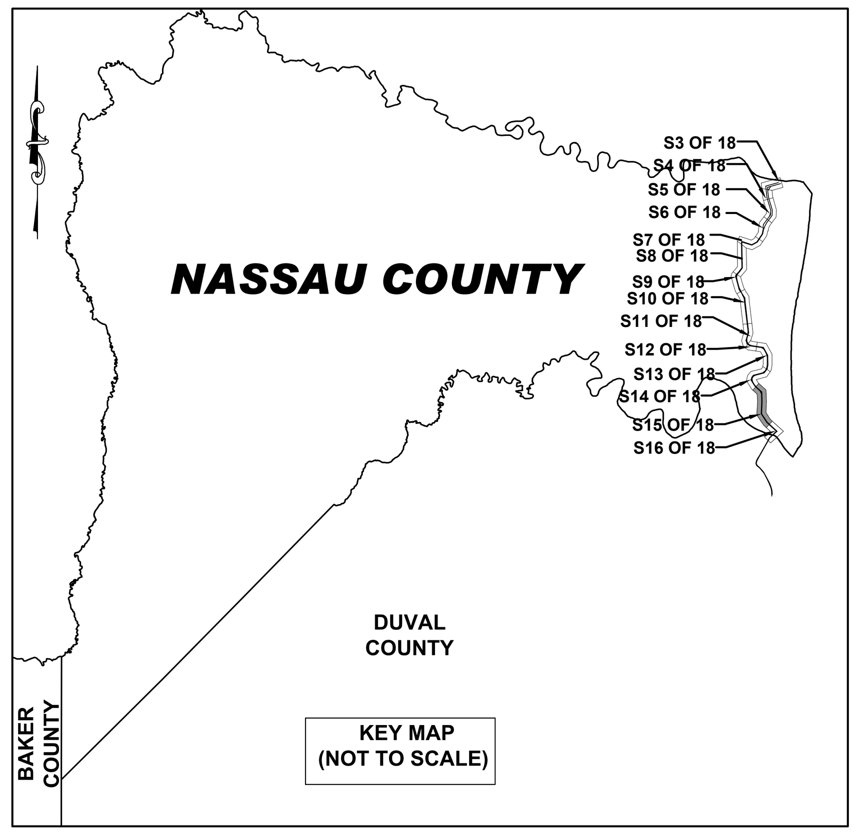
SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'

SHEET:
S14

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18



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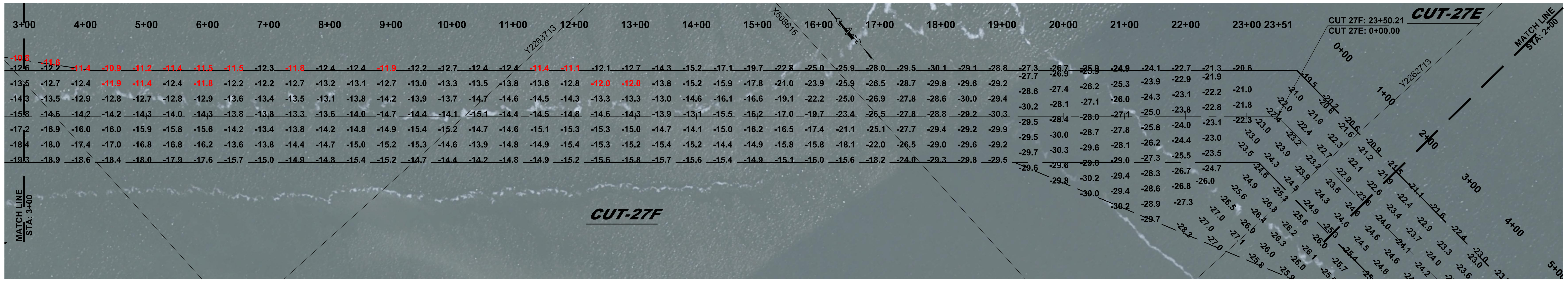
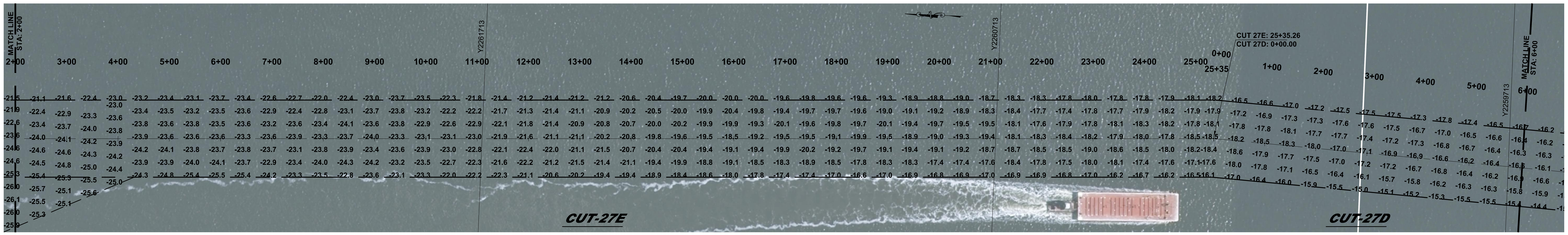
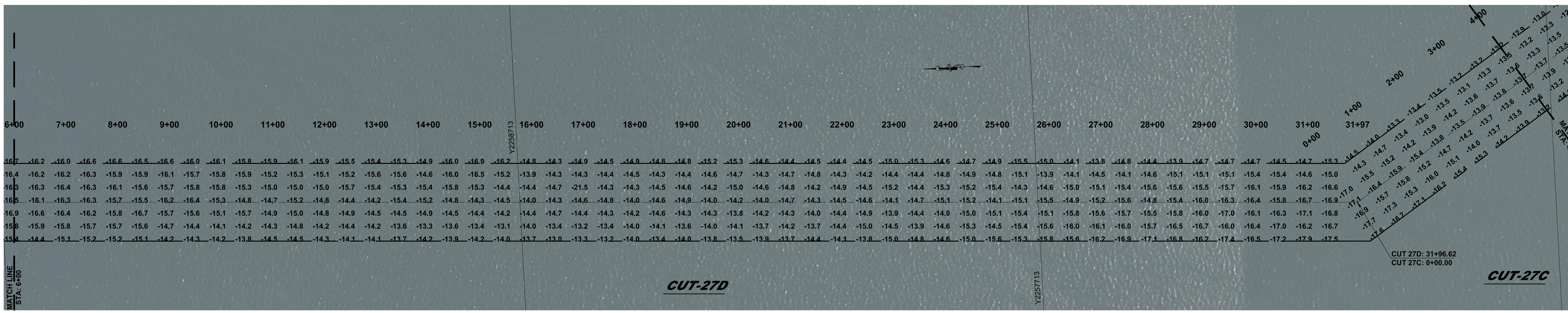
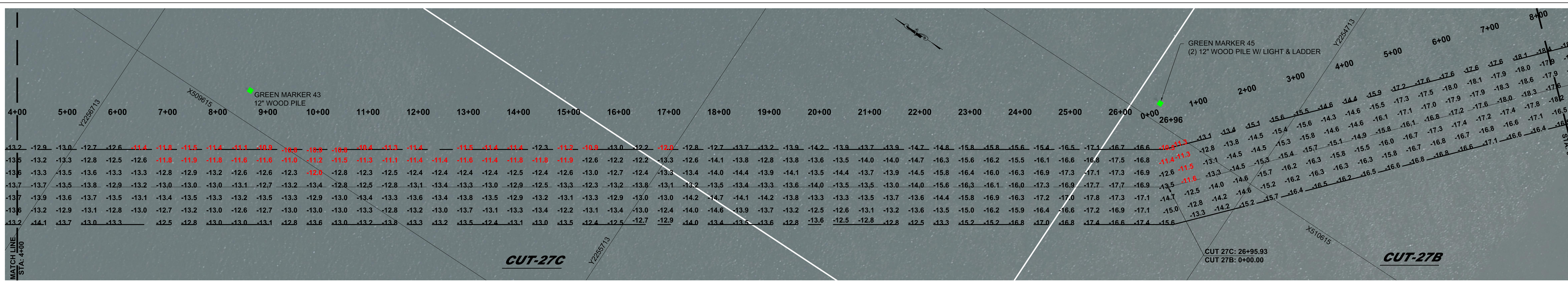
SCALE 1" = 100'









REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 27F, CUT 27D, CUT 27C & CUT 27B

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

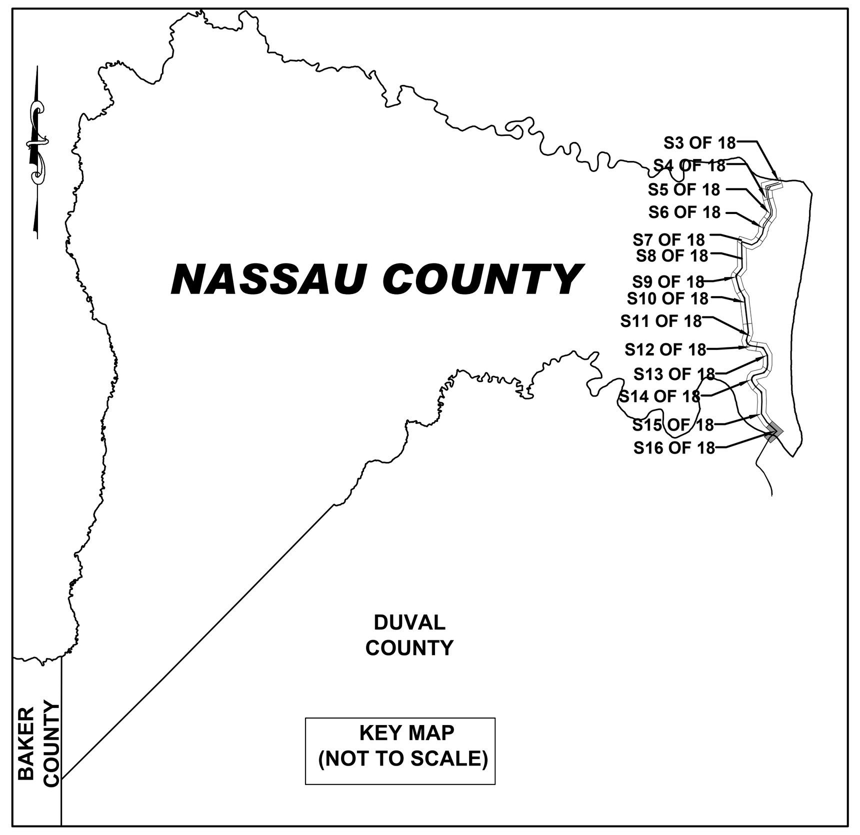
PREPARED BY: SEA DIVERSIFIED

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	

S15

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 13

SDI P.N. 13-2078



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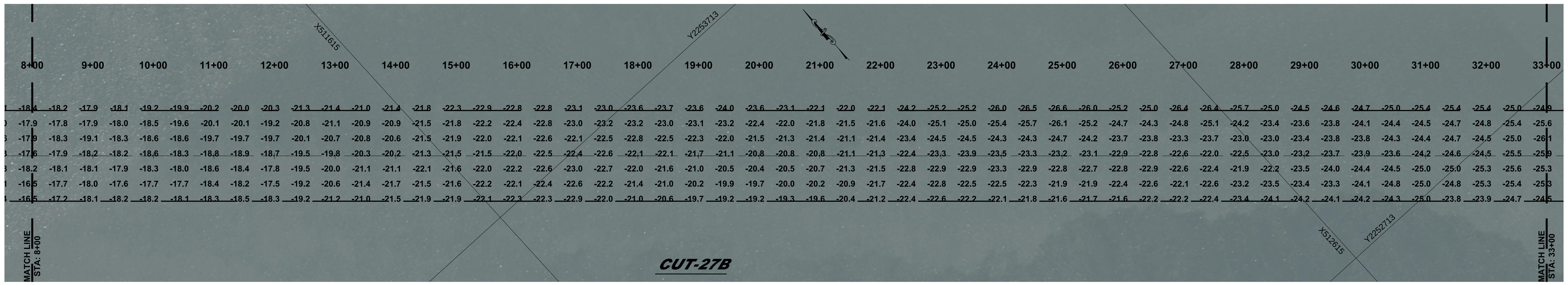

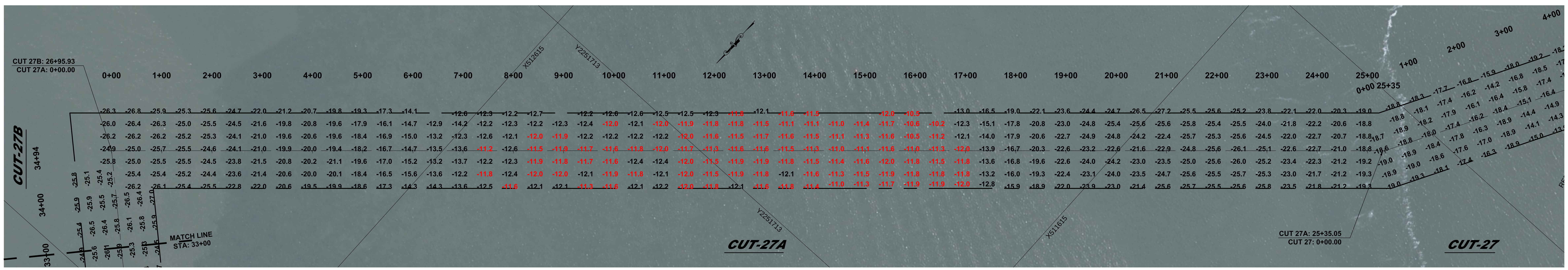

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
INTRACOASTAL CUT 27B, CUT 27A, & CUT 27

FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
WWW.SEADIVERSIFIED.COM

PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	1" = 100'
SHEET:	

S16

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

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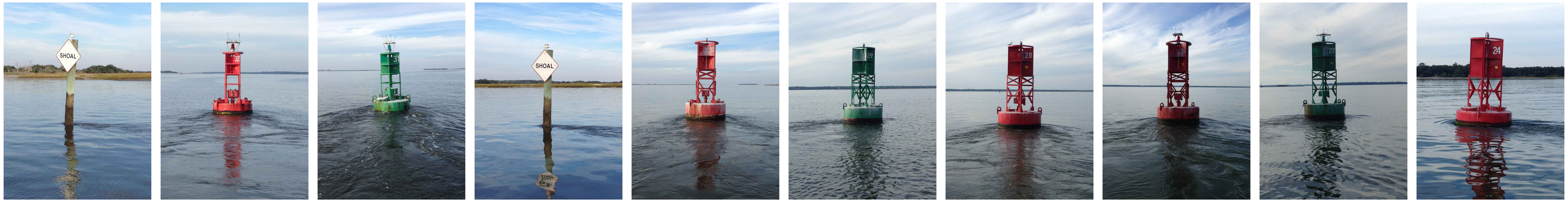

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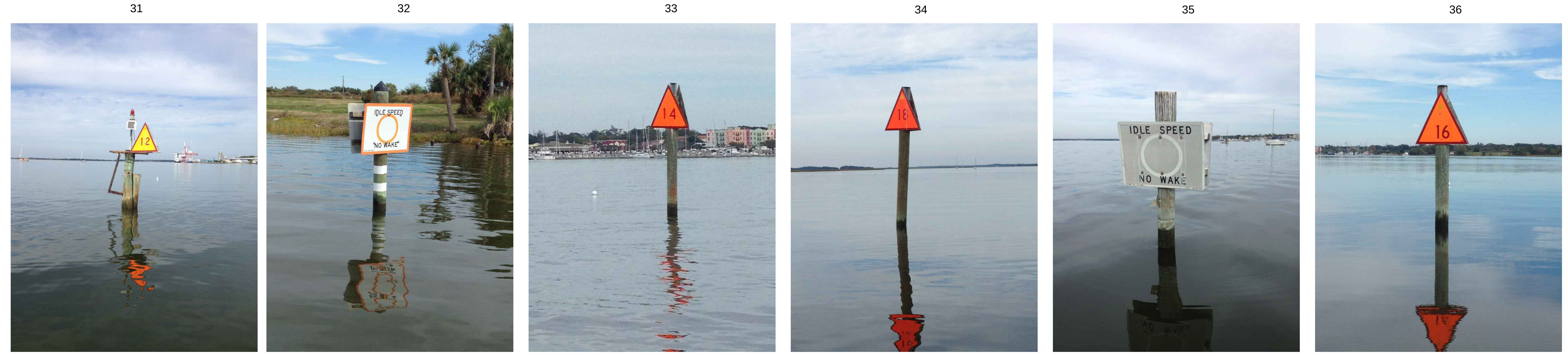

37 38 39 40 41 42

NASSAU COUNTY CHANNEL MARKERS

	NAD 83/90 SPCS 0901					
NO	NORTHING FT.	EASTING FT.	MARKER NO.	LONGITUDE	LATITUDE	MATERIAL
1	2334675.58'	503583.37'	SHOAL	W81° 29' 08.71"	N30° 45' 16.33"	12" WOOD PILE W/ LIGHT
2	2334521.61'	504462.07'	RED MARKER 36	W81° 28' 58.64"	N30° 45' 14.85"	FLOATING BUOY W/ LIGHT
3	2334020.81'	504723.87'	SHOAL	W81° 28' 55.61"	N30° 45' 09.90"	12" WOOD PILE
4	2332215.97'	503830.75'	GREEN MARKER 35	W81° 29' 05.76"	N30° 44' 52.00"	FLOATING BUOY W/ LIGHT
5	2331382.36'	504980.35'	SHOAL	W81° 28' 52.54"	N30° 44' 43.80"	12" WOOD PILE W/ LIGHT
6	2331106.06'	503478.62'	SHOAL	W81° 29' 09.74"	N30° 44' 41.00"	12" WOOD PILE W/ LIGHT
7	2330703.87'	503060.79'	BEACON TOWER	W81° 29' 14.50"	N30° 44' 37.00"	STEEL PLATFORM W/ GREEN LIGHT
8	2330153.80'	503695.02'	GREEN MARKER 33	W81° 29' 07.21"	N30° 44' 31.58"	FLOATING BUOY W / LIGHT
9	2330052.09'	504181.48'	RED MARKER 34	W81° 29' 01.63"	N30° 44' 30.60"	FLOATING BUOY W/ LIGHT
10	2329553.64'	503261.90'	BEACON LIGHT	W81° 29' 12.14"	N30° 44' 25.62"	(3) 12 WOOD PILES W/ LIGHT
11	2328089.34'	504383.59'	SHOAL	W81° 28' 59.22"	N30° 44' 11.18"	12" WOOD PILE
12	2327828.00'	503971.15'	RED MARKER 32	W81° 29' 03.93"	N30° 44' 08.57"	FLOATING BUOY W/ LIGHT
13	2326944.66'	503438.12'	GREEN MARKER 31	W81° 29' 09.99"	N30° 43' 59.81"	FLOATING BUOY W/ LIGHT
14	2326597.61'	504366.59'	SHOAL	W81° 28' 59.34"	N30° 43' 56.41"	12" WOOD PILE W/ LIGHT
15	2325015.72'	504512.84'	RED MARKER 30	W81° 28' 57.58"	N30° 43' 40.76"	FLOATING BUOY W/ LIGHT
16	2323809.00'	503982.26'	GREEN MAKER 29	W81° 29' 03.60"	N30° 43' 28.79"	FLOATING BUOY W/ LIGHT
17	2322491.24'	505642.56'	RED MARKER 28	W81° 28' 44.52"	N30° 43' 15.82"	FLOATING BUOY W/ LIGHT
18	2321249.23'	507441.54'	RED MARKER 26	W81° 28' 23.85"	N30° 43' 03.61"	FLOATING BUOY W/ LIGHT
19	2320892.85'	506725.45'	GREEN MARKER 27	W81° 28' 32.03"	N30° 43' 00.05"	FLOATING BUOY W/ LIGHT
20	2319976.69'	510105.20'	RED MARKER 24	W81° 27' 53.27"	N30° 42' 51.12"	FLOATING BUOY W/ LIGHT
21	2319530.77'	509851.36'	GREEN MARKER 25	W81° 27' 56.16"	N30° 42' 46.70"	FLOATING BUOY W/ LIGHT
22	2318925.71'	512529.91'	RED MARKER 22	W81° 27' 25.45"	N30° 42' 40.82"	FLOATING BUOY W/ LIGHT
23	2318566.77'	511932.62'	GREEN MARKER 23	W81° 27' 32.27"	N30° 42' 37.24"	FLOATING BUOY W/ LIGHT
24	2317689.62'	510139.28'	SHIP BEACON HOUSE	W81° 27' 52.77"	N30° 42' 28.48"	STEEL TOWER W/ LIGHT
25	2316571.33'	511334.99'	GREEN MARKER 1	W81° 27' 39.02"	N30° 42' 17.46"	FLOATING BUOY W/ LIGHT
26	2316302.75'	510251.87'	RED MARKER 2	W81° 27' 51.42"	N30° 42' 14.76"	FLOATING BUOY W/ LIGHT
27	2315155.37'	510902.23'	GREEN MARKER 3	W81° 27' 43.91"	N30° 42' 03.43"	FLOATING BUOY W/ LIGHT
28	2313833.38'	511196.29'	RESUME NORMAL SAFE OPERATION	W81° 27' 40.48"	N30° 41' 50.36"	12" WOOD PILE
29	2313692.41'	510518.56'	RED MARKER 4	W81° 27' 48.24"	N30° 41' 48.94"	FLOATING BUOY W/ LIGHT
30	2313673.33'	511009.14'	GREEN MARKER 5	W81° 27' 42.62"	N30° 41' 48.77"	FLOATING BUOY W/ LIGHT
31	2312717.86'	511476.50'	IDLE SPEED NO WAKE	W81° 27' 37.22"	N30° 41' 39.33"	12" WOOD PILE
32	2310654.62'	511444.21'	RED MARKER 6	W81° 27' 37.49"	N30° 41' 18.91"	FLOATING BUOY W/ LIGHT
33	2310651.05'	511996.59'	GREEN MARKER 7	W81° 27' 31.17"	N30° 41' 18.89"	12" WOOD PILE W/ LIGHT & LADDER
34	2309642.24'	512024.46'	DANGER SUBMERGES PIPELINE	W81° 27' 30.80"	N30° 41' 08.91"	CONCRETE PILE
35	2309083.03'	511171.53'	RED MARKER 8	W81° 27' 40.54"	N30° 41' 03.34"	FLOATING BUOY W/ LIGHT
36	2305862.16'	509461.58'	RED MARKER 10	W81° 27' 59.97"	N30° 40' 31.39"	FLOATING BUOY W/ LIGHT
37	2303936.46'	508871.50'	RED MARKER 12	W81° 28' 06.64"	N30° 40' 12.31"	(3) 12" WOOD PILE W / LIGHT & LADDER
38	2302783.17'	507407.89'	IDLE SPEED NO WAKE	W81° 28' 23.34"	N30° 40' 00.83"	12" WOOD PILE
39	2302517.36'	507676.06'	RED MARKER 14	W81° 28' 20.26"	N30° 39' 58.21"	12" WOOD PILE
40	2302367.86'	503894.89'	RED MARKER 18	W81° 29' 03.54"	N30° 39' 56.57"	12" WOOD PILE
41	2302328.95'	508365.44'	IDLE SPEED NO WAKE	W81° 28' 12.36"	N30° 39' 56.37"	12" WOOD PILE
42	2301829.92'	506098.39'	RED MARKER 16	W81° 28' 38.29"	N30° 39' 51.34"	12" WOOD PILE

NOTE:
SEE COVER PAGE FOR ADDITIONAL NOTES.

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
NASSAU COUNTY CHANNEL MARKERS

PREPARED FOR:
FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
SURVEYING AND ENGINEERING APPLICATIONS
21 NW 2ND STREET
DELRAY BEACH, FLORIDA 33444
TEL: (561) 243-4920 FAX: (561) 243-4957
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PREPARED BY:

DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	AS NOTED

SHEET:
N17

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS:18

SDI P.N. 13-2078

43 44 45 46 47 48 49 50 51 52

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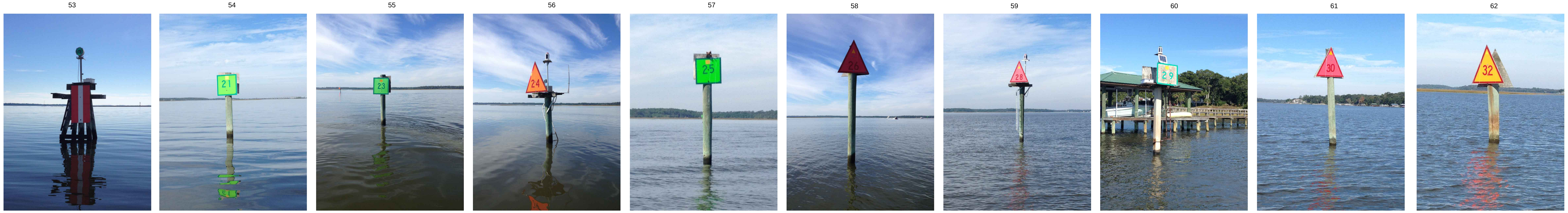

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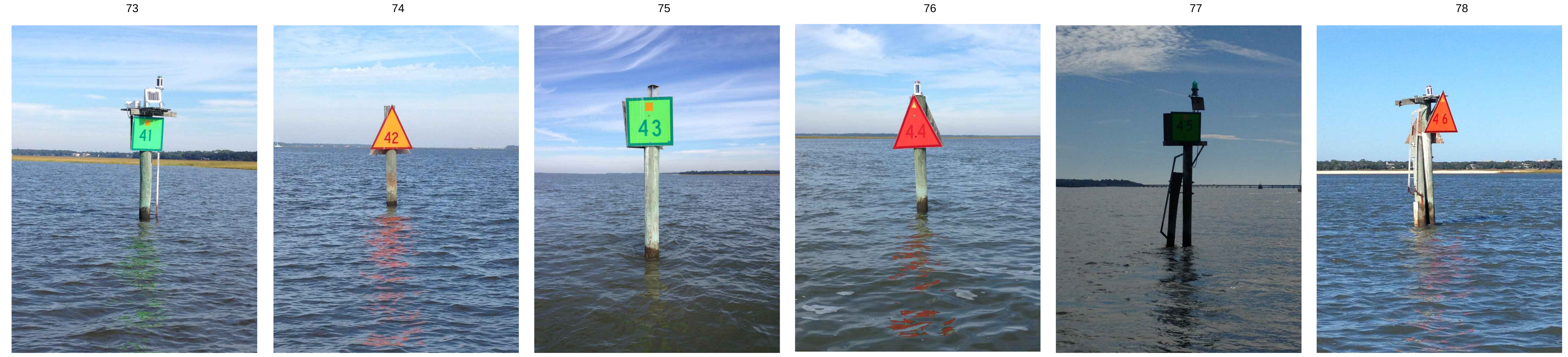

79 80 81 82 83 84

NASSAU COUNTY CHANNEL MARKERS

NO	NAD 83/90 SPCS 0901 NORTHING FT.	EASTING FT.	MARKER NO.	LONGITUDE	LATITUDE	MATERIAL
43	2301497.88'	503937.63'	GREEN MARKER 1	W81° 29' 03.01"	N30° 39' 47.96"	12" WOOD PILE W/ LADDER & LIGHT
44	2301372.36'	504156.31'	DANGER UNDERWATER PIPELINE	W81° 29' 00.50"	N30° 39' 46.73"	(2) 12" CONCRETE PILES
45	2296107.74'	503865.62'	RED MARKER 2	W81° 29' 03.57"	N30° 38' 54.61"	FLOATING BUOY
46	2295413.67'	504062.23'	GREEN MARKER 3	W81° 29' 01.29"	N30° 38' 47.75"	12" WOOD PILE W / LIGHT & LADDER
47	2294526.66'	503680.85'	GREEN MARKER 5	W81° 29' 05.61"	N30° 38' 38.95"	12" WOOD PILE
48	2293688.79'	502813.34'	GREEN MARKER 7	W81° 29' 15.50"	N30° 38' 30.62"	12" WOOD PILE W LIGHT & LADDER
49	2293036.74'	502171.95'	RED MARKER 8	W81° 29' 22.81"	N30° 38' 24.14"	12" WOOD PILE W LIGHT & LADDER
50	2292988.86'	502669.27'	GREEN MARKER 9	W81° 29' 17.11"	N30° 38' 23.69"	12" WOOD PILE
51	2290243.15'	503293.03'	GREEN MARKER 13	W81° 29' 09.84"	N30° 37' 56.54"	12" WOOD PILE
52	2289168.15'	503760.71'	EAST RAILROAD FENDER W/ LIGHT	W81° 29' 04.43"	N30° 37' 45.92"	WOOD PILE
53	2288808.77'	503935.45'	WEST RAILROAD FENDER W/ LIGHT	W81° 29' 02.41"	N30° 37' 42.37"	WOOD PILE
54	2288803.43'	503941.29'	NE FENDER W/ LIGHT	W81° 29' 02.34"	N30° 37' 42.32"	CONCRETE & WOOD PILE
55	2288760.15'	503857.69'	NW FENDER W/ LIGHT	W81° 29' 03.30"	N30° 37' 41.88"	CONCRETE & WOOD PILE
56	2288535.31'	504116.15'	SE FENDER W/ LIGHT	W81° 29' 00.33"	N30° 37' 39.67"	CONCRETE & WOOD PILE
57	2288476.26'	504003.91'	SW FENDER W/ LIGHT	W81° 29' 01.61"	N30° 37' 39.08"	CONCRETE & WOOD PILE
58	2287537.02'	504422.76'	RED MARKER 14	W81° 28' 56.77"	N30° 37' 29.80"	12" STEEL I-BEAM W/ LADDER & LIGHT
59	2285058.62'	504796.77'	RED MARKER 16	W81° 28' 52.37"	N30° 37' 05.29"	12" WOOD PILE
60	2281956.48'	505157.96'	RED MARKER 18	W81° 28' 48.08"	N30° 36' 34.60"	12" WOOD PILE
61	2278937.07'	505747.07'	GREEN MARKER 19	W81° 28' 41.20"	N30° 36' 04.74"	12" WOOD PILE
62	2278086.77'	505445.37'	RED MARKER 20	W81° 28' 44.61"	N30° 35' 56.31"	12" WOOD PILE
63	2277964.53'	505732.53'	GREEN NAV AID LIGHT	W81° 28' 41.32"	N30° 35' 55.11"	WOOD PILE PLATFORM W/ GREEN LIGHT
64	2276365.60'	505340.60'	GREEN MARKER 21	W81° 28' 45.72"	N30° 35' 39.27"	12" WOOD PILE
65	2275503.39'	505658.06'	GREEN MARKER 23	W81° 28' 42.05"	N30° 35' 30.75"	12" WOOD PILE
66	2275420.85'	505287.88'	RED MARKER 24	W81° 28' 46.28"	N30° 35' 29.91"	12" WOOD PILE W/ LIGHT & LADDER
67	2275107.70'	506242.18'	GREEN MARKER 25	W81° 28' 35.35"	N30° 35' 26.85"	12" WOOD PILE
68	2274696.75'	507112.82'	RED MARKER 26	W81° 28' 25.37"	N30° 35' 22.82"	12" WOOD PILE
69	2274180.87'	509310.10'	RED MARKER 28	W81° 28' 00.20"	N30° 35' 17.81"	12" WOOD PILE W/ LIGHT & LADDER
70	2272608.40'	510792.16'	GREEN MARKER 29	W81° 27' 43.17"	N30° 35' 02.30"	CONCRETE PILE W/ LIGHT & LADDER
71	2271179.53'	510526.91'	RED MARKER 30	W81° 27' 46.14"	N30° 34' 48.15"	12" WOOD PILE
72	2269144.87'	510213.94'	RED MARKER 32	W81° 27' 49.62"	N30° 34' 28.00"	12" WOOD PILE
73	2267905.54'	509973.35'	GREEN MARKER 33	W81° 27' 52.32"	N30° 34' 15.72"	12" WOOD PILE W/ LIGHT & LADDER
74	2267875.58'	509286.68'	RED MARKER 34	W81° 28' 00.17"	N30° 34' 15.40"	12" WOOD PILE
75	2267290.86'	506841.75'	RED MARKER 36	W81° 28' 28.11"	N30° 34' 09.51"	12" WOOD PILE
76	2267138.80'	507409.58'	GREEN MARKER 37	W81° 28' 21.61"	N30° 34' 08.03"	12" WOOD PILE W/ LIGHT & LADDER
77	2265521.18'	506368.47'	RED MARKER 38	W81° 28' 33.44"	N30° 33' 51.97"	12" WOOD PILE
78	2265188.56'	507021.58'	GREEN MARKER 39	W81° 28' 25.95"	N30° 33' 48.71"	12" WOOD PILE
79	2263278.74'	509130.88'	GREEN MARKER 41	W81° 28' 01.73"	N30° 33' 29.89"	12" WOOD PILE W/ LIGHT & LADDER
80	2262772.76'	508598.89'	RED MARKER 42	W81° 28' 07.80"	N30° 33' 24.86"	12" WOOD PILE
81	2256480.45'	509672.25'	GREEN MARKER 43	W81° 27' 55.22"	N30° 32' 22.62"	12" WOOD PILE
82	2256425.05'	509222.02'	RED MARKER 44	W81° 28' 00.37"	N30° 32' 22.06"	12" WOOD PILE
83	2254951.92'	510650.28'	GREEN MARKER 45	W81° 27' 43.97"	N30° 32' 07.53"	(2) 12" WOOD PILE W/ LIGHT & LADDER
84	2252263.63'	512421.32'	RED MARKER 46	W81° 27' 23.59"	N30° 31' 41.00"	(2) 12" WOOD PILES W/ LIGHT & LADDER

NOTE:
SEE COVER PAGE FOR ADDITIONAL NOTES.

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HYDROGRAPHIC SURVEY (-12 PROJECT) OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:
NASSAU COUNTY CHANNEL MARKERS

PREPARED FOR:
FLORIDA INLAND NAVIGATION DISTRICT
1314 MARCINSKI ROAD
JUPITER, FLORIDA 33477

SEA DIVERSIFIED, INC.
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PREPARED BY:

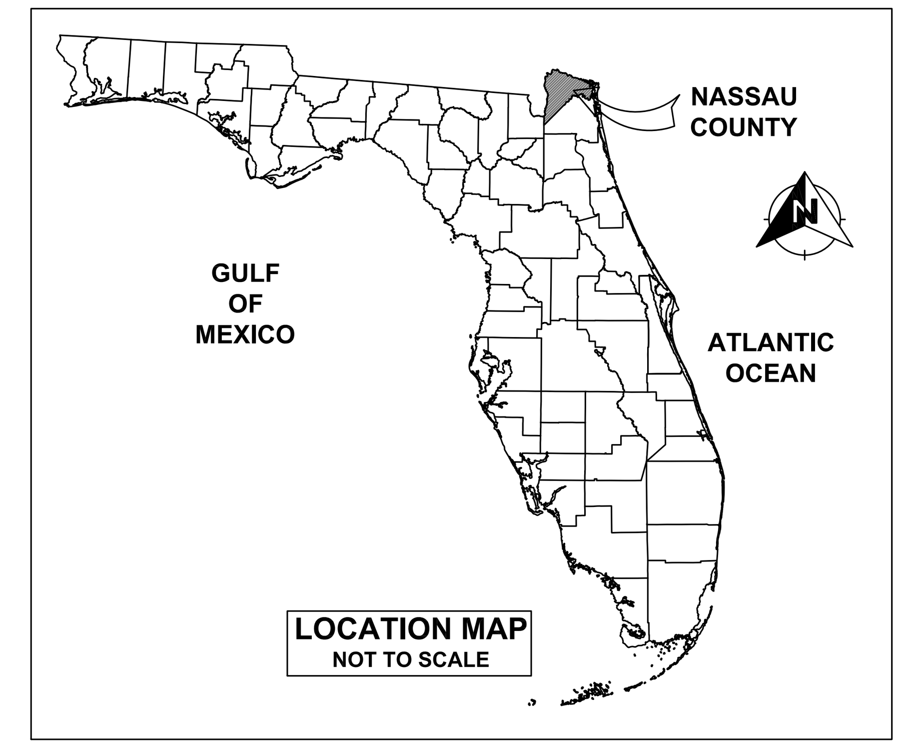
DATE:	1-31-15
DRAWN BY:	W.J.R.
CHECKED BY:	R.W.B.
SCALE:	AS NOTED

SHEET:
N18

CADD ID: 13-2078
TOTAL NUMBER OF SHEETS: 18

BATHYMETRIC SURVEY OF THE INTRACOASTAL WATERWAY AT CUT-10 AND CUT-B SHOAL AREAS NASSAU COUNTY, FLORIDA

VICINITY MAP



PREPARED FOR:

TAYLOR ENGINEERING INC

TAYLOR ENGINEERING INC

10151 DEERINGWOOD PARK BLVD
BLDG. 300 SUITE 300
JACKSONVILLE, FL 33256

PREPARED BY:

SEA DIVERSIFIED, INC.

SEA DIVERSIFIED

21 NW 2ND STREET
DELRAY BEACH,
FLORIDA 33444

VERTICAL DATUM DIAGRAM

NAVD 88

-3.93

MLLW

RELATIONSHIP BETWEEN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88) AND MEAN LOWER LOW WATER (MLLW)

ABBREVIATIONS

CSWY	CAUSEWAY
FPL	FLORIDA POWER AND LIGHT
GPS	GLOBAL POSITIONING SYSTEM
ICWW	INTRACOASTAL WATERWAY
MLLW	MEAN LOWER LOW WATER
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ASSOCIATION
PKWY	PARKWAY
RTK	REAL-TIME-KINEMATIC
SR	STATE ROAD

LEGEND

■ 2	GREEN CHANNEL MARKERS	-13	CONTOUR ELEVATION
□	INFORMATION SIGN		
▲ 2	RED CHANNEL MARKERS		

SHEET INDEX

SHT NO.	DESCRIPTION
C1	COVER - NOTES -LOCATION / AERIAL MAP
2	ELEVATION DATA

CONTROL TABULATION

	NAD 83/90 SPCS 0901		NAVD 88		
DESIGNATION	NORTHING (FEET)	EASTING (FEET)	ELEVATION (FEET)	DESCRIPTION	STAMPING
872 0058 B TIDAL	N/A	N/A	9.82	SURVEY DISK SET IN CONCRETE (PID BC2475)	0058 B 1982
872 0058 C TIDAL	N/A	N/A	5.22	SURVEY DISK SET IN CONCRETE (PID BC2476)	0558 C 1982
RICHARD E. BONER	2304621.03	509882.49	N/A	SURVEY DISK SET IN CONCRETE RETAINING WALL (PID BBCK39)	RICHARD E. BONNER
NASSAU 9	22861060.18	499589.02	N/A	SURVEY DISK SET IN CONCRETE (PID DE5894)	NASSAU 9 2002

HYDROGRAPHIC SURVEY NOTES:

1. REFER TO SEA DIVERSIFIED PROJECT NUMBER 15-2312.
2. THIS HYDROGRAPHIC SURVEY WAS CONDUCTED ON OCTOBER 20, 29, 30, 2015 & JANUARY 29 2016
3. THIS SURVEY WAS PREPARED FOR TAYLOR ENGINEERING, INC.
4. THE INFORMATION DEPICTED HEREIN REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THE TIME.
5. HORIZONTAL DATA ARE IN FEET AND RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR FLORIDA, EAST ZONE (0901), NORTH AMERICAN DATUM (NAD) OF 1983, 1990 ADJUSTMENT.
6. VERTICAL DATA ARE IN FEET AND RELATIVE TO MEAN LOWER LOW WATER (MLLW). MEAN LOWER LOW WATER WAS TRANSLATED FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING THE LATEST VERSION VDATUM (VERTICAL DATUM TRANSFORMATION) PROVIDED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL OCEAN SERVICE (NOS) (SEE GRAPH).
7. BATHYMETRIC DATA WAS COLLECTED USING A TRIMBLE SPS461 REAL-TIME-KINEMATIC (RTK) GLOBAL POSITIONING SYSTEM (GPS) FOR POSITIONING AND A TELEDYNE (ODOM) MB1 MULTIBEAM SOUNDER OPERATING AT A 219 kHz WITH INTEGRATED TSS MODEL DMS-05, DYNAMIC MOTION SENSOR. HORIZONTAL POSITION ACCURACY WAS VERIFIED BY CHECKS AT CONTROL POINTS TABULATED HEREIN. THE SOUNDER WAS CALIBRATED PRIOR TO THE START OF THE SURVEY FOLLOWING MANUFACTURER RECOMMENDED PROCEDURES.
8. RTK DERIVED TIDES WERE APPLIED REAL-TIME DURING THE COURSE OF SURVEY UTILIZING THE TRIMBLE VRS NETWORK. RTK DERIVED TIDES WERE VERIFIED THROUGH TIDE RECORDINGS FROM SELF-RECORDING PRESSURE GAUGES (LEVEL TROLL 500).THE GAUGES WERE SET RELATIVE TO NAVD88 CONTROL TABULATED HEREIN. WATER LEVELS WERE RECORDED AT SIX-MINUTE INTERVALS DURING SURVEY OPERATIONS
9. ELEVATIONS DISPLAYED HEREON WERE INTERPOLATED FROM GRIDDED SOUNDING DATA ALONG INTRACOASTAL WATERWAY CHANNEL CUT STATIONS. INTRACOASTAL WATERWAY CHANNEL LOCATION IS BASED UPON COORDINATE FILES PROVIDED BY THE U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT.
10. AZIMUTHS SHOWN HEREON ARE GRID RECKONED CLOCKWISE FROM NORTH.
11. AERIAL PHOTOGRAPHY OBTAINED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION AND IS PROVIDED FOR GRAPHICAL PURPOSES ONLY. FLIGHT DATE WAS 2012.
12. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

CERTIFICATION

I HEREBY CERTIFY THAT THE HYDROGRAPHIC SURVEY SHOWN HEREON IS BASED ON A RECENT FIELD SURVEY CONDUCTED UNDER MY PERSONAL DIRECTION AND IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

DRAFT

WILLIAM T. SADLER JR., P.E., P.S.M.
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. 5859
L.B. 7342

DATE:

REVISIONS:

NO.:	DATE:	DESCRIPTION:
1	2/4/16	ADDITIONAL DATA

PROJECT: BATHYMETRIC SURVEY OF THE INTRACOASTAL WATERWAY AT CUT-10 AND CUT-B SHOAL AREAS NASSAU COUNTY, FLORIDA

SHEET TITLE: COVER SHEET / NOTES / KEY MAP

PREPARED FOR: TAYLOR ENGINEERING INC
TAYLOR ENGINEERING INC.
10151 DEERINGWOOD PARK BLVD
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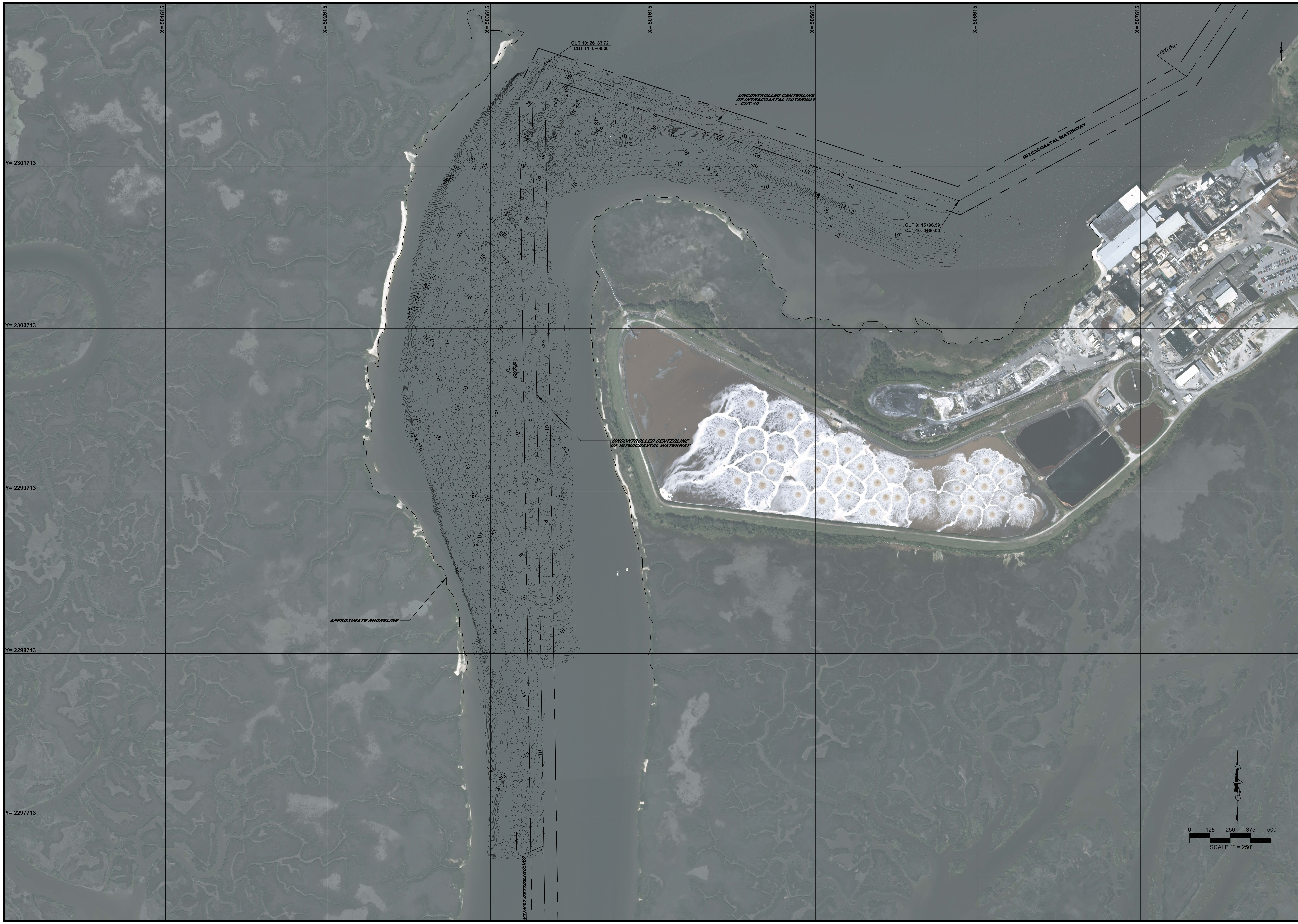
PREPARED BY: SEA DIVERSIFIED

DATE:	02-2016
DRAWN BY:	P.O.
CHECKED BY:	R.W.B.
SCALE:	AS NOTED
SHEET:	C1

CADD ID: 15-2312
TOTAL NUMBER OF SHEETS: 2

SDI P.N. 15-2312



REVISIONS:

NO.:	DATE:	DESCRIPTION:
1	2/4/16	ADDITIONAL DATA

PROJECT:

BATHYMETRIC SURVEY OF THE INTRACOASTAL WATERWAY NASSAU COUNTY, FLORIDA

SHEET TITLE:

CONTOURS OF INTRACOASTAL CUT 9, CUT 10, & CUT 11

TAYLOR ENGINEERING INC

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
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PREPARED BY:
SEA DIVERSIFIED

DATE:	02-2016
DRAWN BY:	P.O.
CHECKED BY:	R.W.B.
SCALE:	1" = 250'

SHEET:

2

CADD ID: 15-2312
TOTAL NUMBER OF SHEETS: 2