

JUPITER/CARLIN BEACH RESTORATION PROJECT PALM BEACH COUNTY, FLORIDA



LOCATION MAP
N.T.S.



VICINITY MAP
1" = 25,000'

REFERENCE:
USGS 7.5' QUADRANGLE MAP,
JUPITER FLORIDA 1988, R3000 FLORIDA 1E-8,
RIVIERA BEACH FLORIDA 1988, DELTA FLORIDA 1988

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GENERAL NOTES:

1. ALL ELEVATIONS ARE IN FEET AND REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD).
2. ALL COORDINATES ARE IN FEET AND REFERENCE STATE PLANE FLORIDA NORTH (NAD).
3. BORROW AREA BATHYMETRY PROVIDED BY PALM BEACH COUNTY ERM.
4. EXISTING BEACH GRADE SURVEYED IN AUGUST 2012 BY MORGAN AND EKLUND, INC.
5. CONSTRUCTION TEMPLATE DESIGNED WITH THE FOLLOWING FEATURES:
 - A DUNE WITH VARIABLE CREST WIDTH EXTENDING FROM THE EXISTING 10.5 FT NAVD CONTOUR AND A 1V:3H SLOPING DUNE FACE EXTENDING FROM THE SEAWARD EDGE OF THE DUNE CREST TO THE BERM.
 - A VARIABLE WIDTH FLAT BERM AT ELEVATION OF 7.5 FT NAVD.
 - A 1V:10H FORESHORE SLOPE EXTENDING FROM THE SEAWARD EDGE OF THE BERM DOWN TO THE EXISTING SEA FLOOR.

PERMIT # 303 863 002

Call (2) Business Days Before you Dig. It's the Law!!



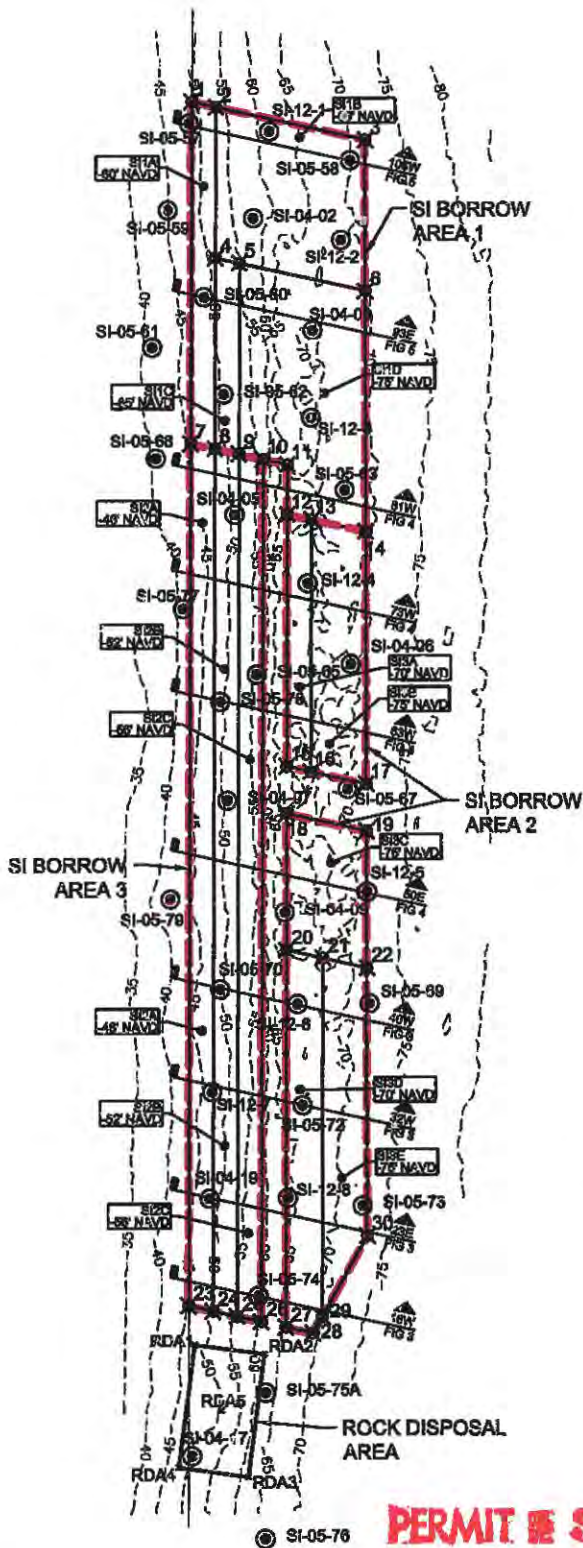
1-800-432-4770

TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD.
BLDG. 300, SUITE 300
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 1
TITLE SHEET
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/JAF
SHEET	1 of 23
DATE	JUNE 2013

SEAL
KRC 6/26/13
KENNETH R. CRAIG # P.E.# 52805



CORE BORING TABLE		
BORING	EASTING	NORTHING
SI-04-02	873708.28	908668.73
SI-04-03	874360.12	907325.86
SI-04-05	873976.89	908211.31
SI-04-08	875132.37	905150.93
SI-04-07	874318.04	903885.18
SI-04-09	874939.81	903031.77
SI-04-17	874944.44	888485.62
SI-04-19	874725.53	800588.70
SI-05-57	873049.40	908346.20
SI-05-58	874424.00	908266.10
SI-05-59	872996.20	908609.00
SI-05-60	873418.40	907846.90
SI-05-61	873063.10	907464.90
SI-05-62	873716.30	907180.30
SI-05-63	874837.80	906687.90
SI-05-65	874377.00	904934.20
SI-05-67	875278.40	904124.80
SI-05-68	873251.80	906563.50
SI-05-69	875757.00	902405.40
SI-05-70	874522.80	902313.20
SI-05-72	875350.00	901480.50
SI-05-73	875881.80	900744.90
SI-05-74	875260.70	899882.30
SI-05-75A	875454.00	899082.70
SI-05-76	875654.10	897897.90
SI-05-77	873887.80	905386.50
SI-05-78	874122.70	904680.60
SI-05-79	873990.00	902976.90
SI-12-1	873717.14	909393.88
SI-12-2	874457.03	908605.81
SI-12-3	874483.10	907109.24
SI-12-4	874883.80	905763.62
SI-12-5	875585.05	903312.71
SI-12-6	875168.81	902287.82
SI-12-7	874599.93	901463.14
SI-12-8	875360.49	900705.54

BORROW AREA CELLS TABLE		
POINT	EASTING	NORTHING
1	873043.06	909527.28
2	873247.57	909617.45
3	874517.59	909456.40
4	873465.97	908263.82
5	873660.42	908274.23
6	874730.51	908223.99
7	873514.97	908733.88
8	873719.42	908724.26
9	873923.88	908714.86
10	874128.33	908705.06
11	874332.79	908695.46
12	874401.56	908288.35
13	874606.02	908278.75
14	876070.85	908256.95
15	874760.04	904225.46
16	874964.50	904215.86
17	875426.81	904193.89
18	874815.19	903838.83
19	875493.45	903907.98
20	876003.66	902724.73
21	875310.24	902710.33
22	875886.13	902592.68
23	874705.82	899885.58
24	874810.07	899875.99
25	875114.53	899686.39
26	875318.98	899656.79
27	875523.44	899647.19
28	875752.74	899638.43
29	875804.96	899781.73
30	876064.35	900503.50

ROCK DISPOSAL AREA TABLE		
POINT	EASTING	NORTHING
RDA1	874812.28	899375.90
RDA2	875380.41	899397.90
RDA3	875429.26	898378.30
RDA4	874851.14	898354.30
RDA5	875120.78	898876.10

LEGEND:
 ● CORE BORING
 ✕ BORROW AREA POINT



0 1,500' 3,000'
 SCALE: 1" = 1,500'

HORIZONTAL DATUM: NAD 83 FLORIDA STATE PLANE EAST, FEET

PERMIT # 303 863 006

TAYLOR ENGINEERING INC.
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 CERTIFICATE OF AUTHORIZATION # 4819

**FIGURE 2
 BORROW AREA PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA**

PROJECT: C2008-081 DRAWN BY: RL/JAF SHEET: 2 of 23 DATE: JUNE 2013

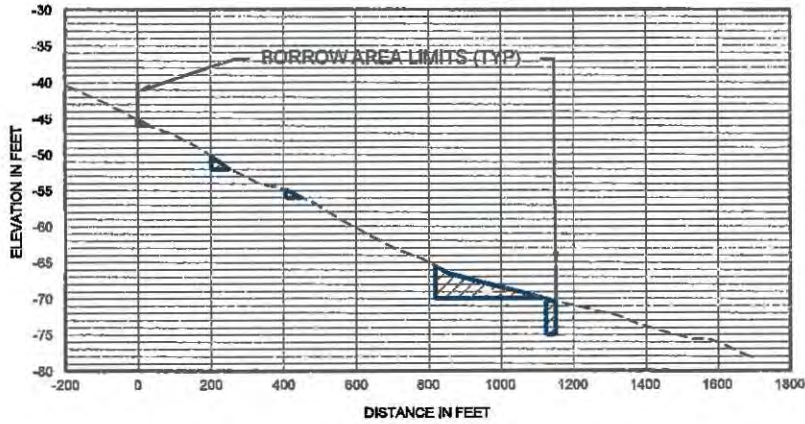
[Signature]
 KENNETH R. CRAIG II P.E. # 11006
 DATE: 6/26/13

AUTOCAD 2012 PLOTTER CALVIN S.P.D. AND PLYMOUTH LETTERS C2008-081-P-BORROW AREA PLAN.DWG 6/26/13 10:52:27 AM

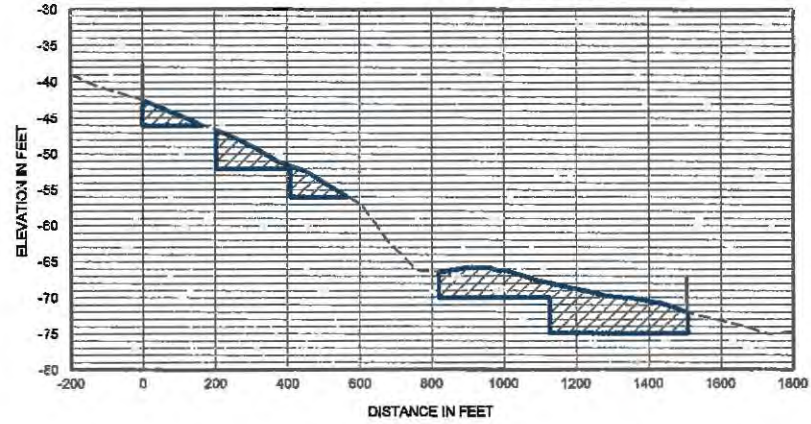
PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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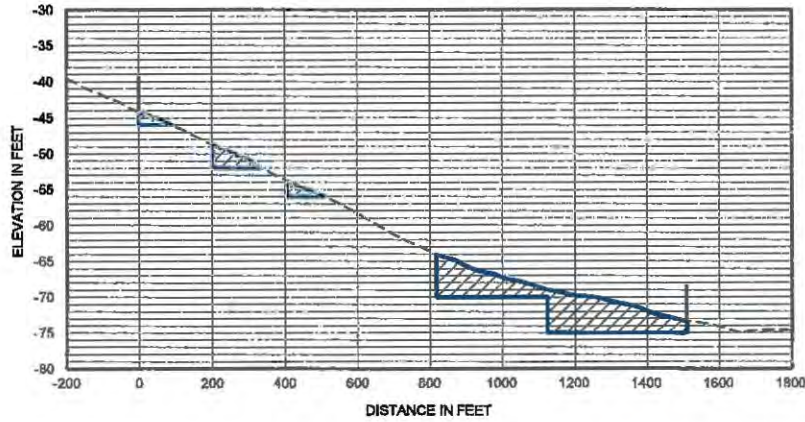
SECTION 16W



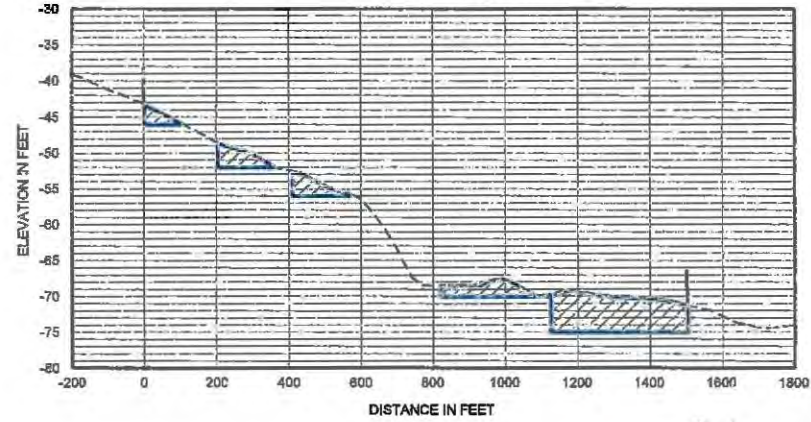
SECTION 32W



SECTION 23E



SECTION 40W



LEGEND:
 - - - - - EXISTING BATHYMETRY (2010)
 [Hatched Area] DREDGE TEMPLATE

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FIGURE 3
 BORROW AREA SECTIONS
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

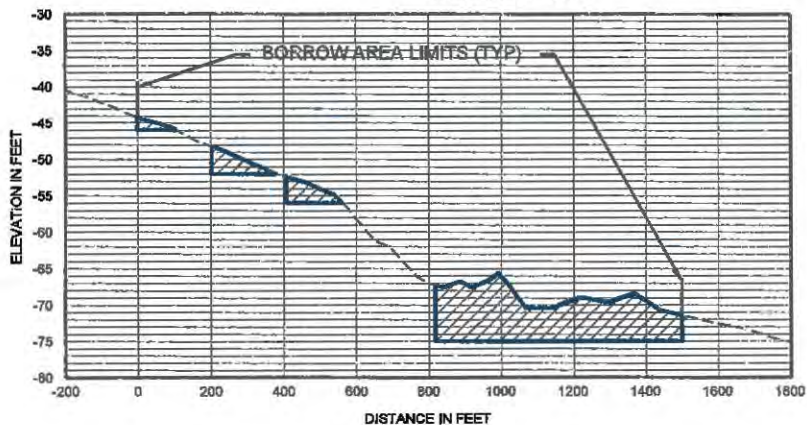
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	3 of 23
DATE	JUNE 2013

SEAL
 [Signature]
 6/26/13
 REGNETH R. CRAIG P.E. # 52885

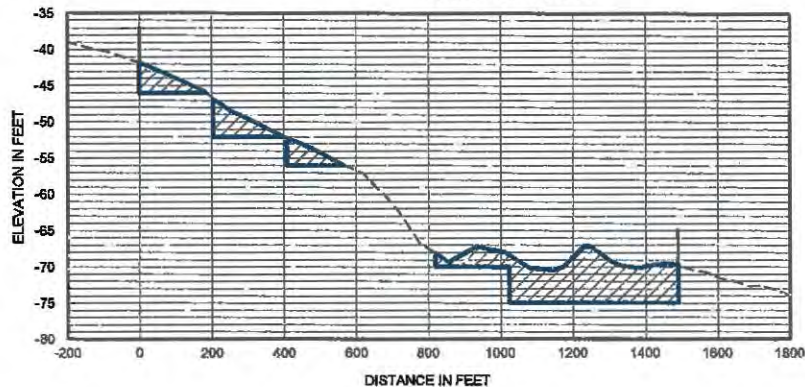
PERMIT # 303863002

ARCH: X:\REVOLVULT_PROJECTS\C2008-081 JUPITER CARLIN BEACH RESTORATION\LETTERS\DESIGN\BYP-BORROW AREA.DWG 8/28/2013 10:58:03 AM

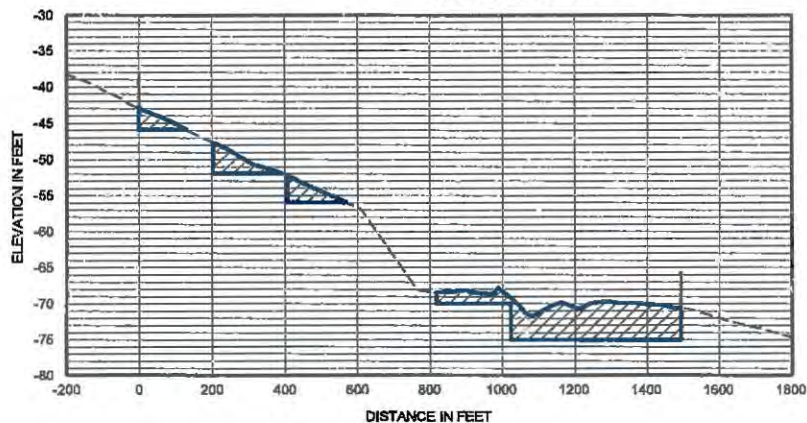
SECTION 50E



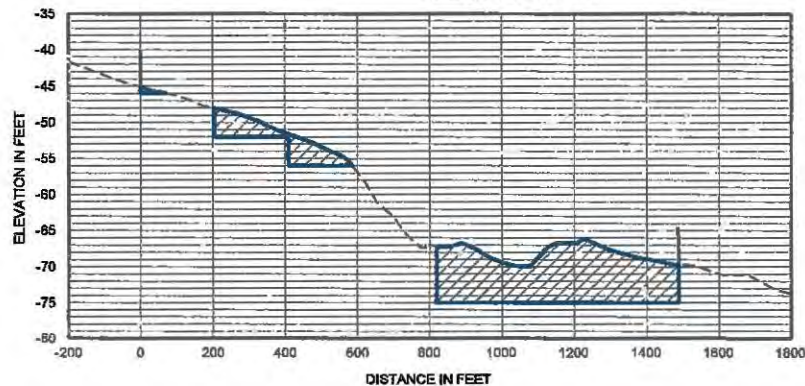
SECTION 73W



SECTION 63W



SECTION 81W



LEGEND:
 - - - - - EXISTING BATHYMETRY (2010)
 [SHADING] DREDGE TEMPLATE



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FIGURE 4
BORROW AREA SECTIONS
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

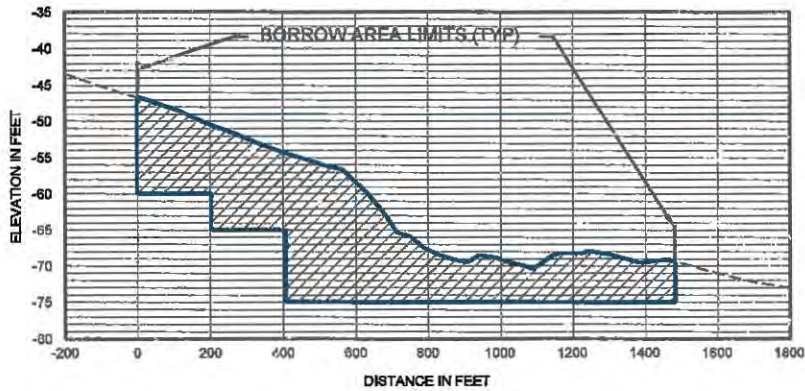
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	4 of 23
DATE	JUNE 2013

SEAL
 [Signature]
 6/26/13
 JUPITER, FLORIDA
 PROFESSIONAL ENGINEER

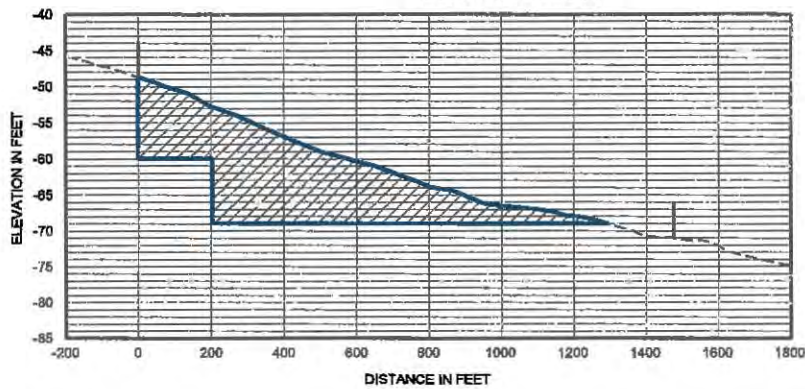
PERMIT # 903862002

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SECTION 93E



SECTION 106W



PERMIT # 903863002

LEGEND:
 - - - - - EXISTING BATHYMETRY (2010)
 DREDGE TEMPLATE

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FIGURE 5
 BORROW AREA SECTIONS
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	5 of 23
DATE	JUNE 2013

SEAL

 KENNETH R. CRUMLEY, P.E. 2005
 DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

JUPITER INLET



0 200' 400'
SCALE: 1" = 200'

2011 HARDBOTTOM (TYP.)

PROPOSED PROJECT EQUILIBRIUM TOE

INITIAL RESTORATION EQUILIBRIUM TOE

MATCHLINE
MATCHLINE

-10

-5

0

5

-10

-10

R-13

SEAWALL

R-14

EROSION CONTROL LINE

JUPITER BEACH PARK



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FIGURE 6
EXISTING BEACH PLAN
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

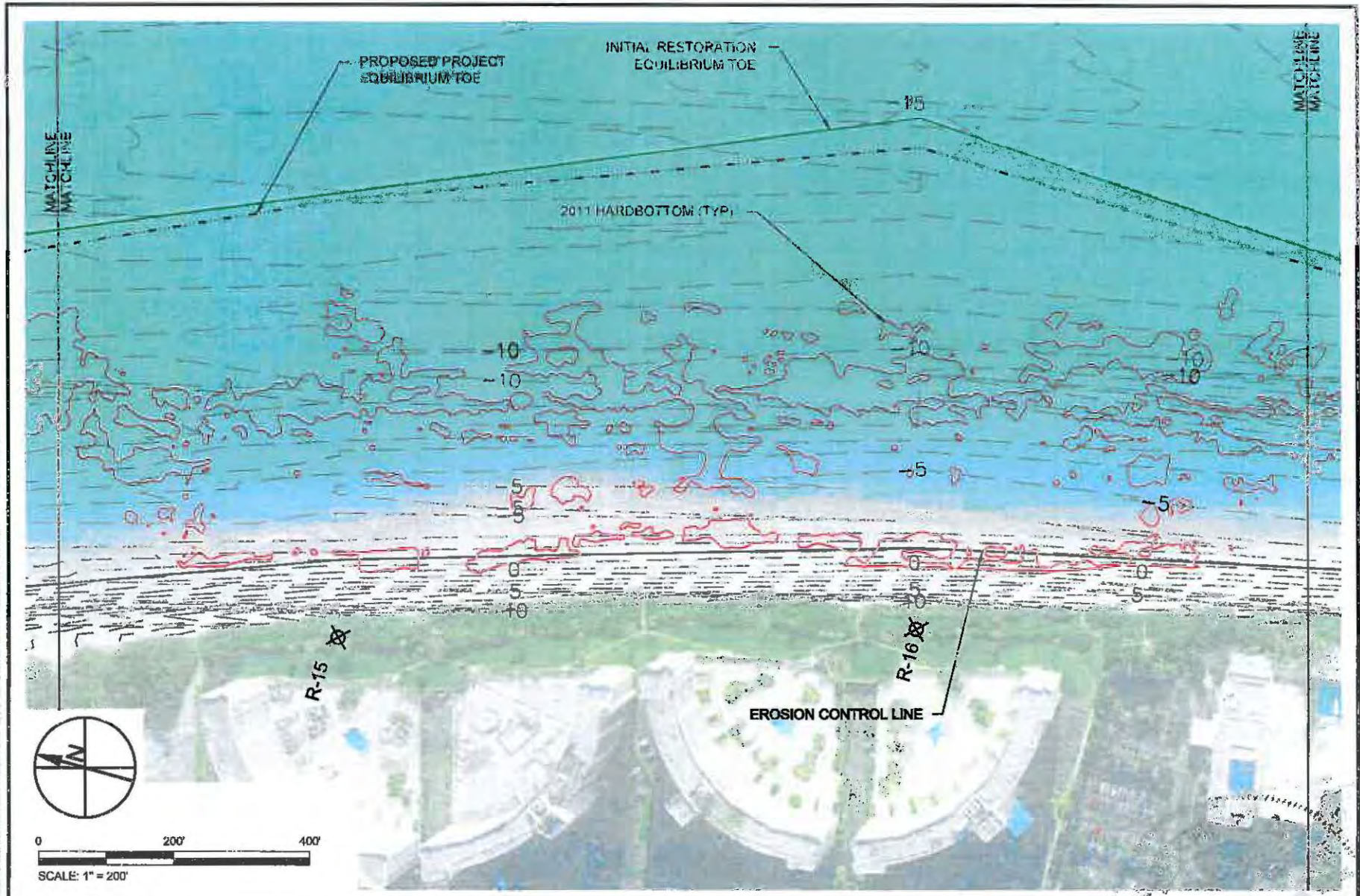
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	6 of 23
DATE	JUNE 2013

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 KENNETH R. CRAIG II, P.E.
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PERMIT # 303863002

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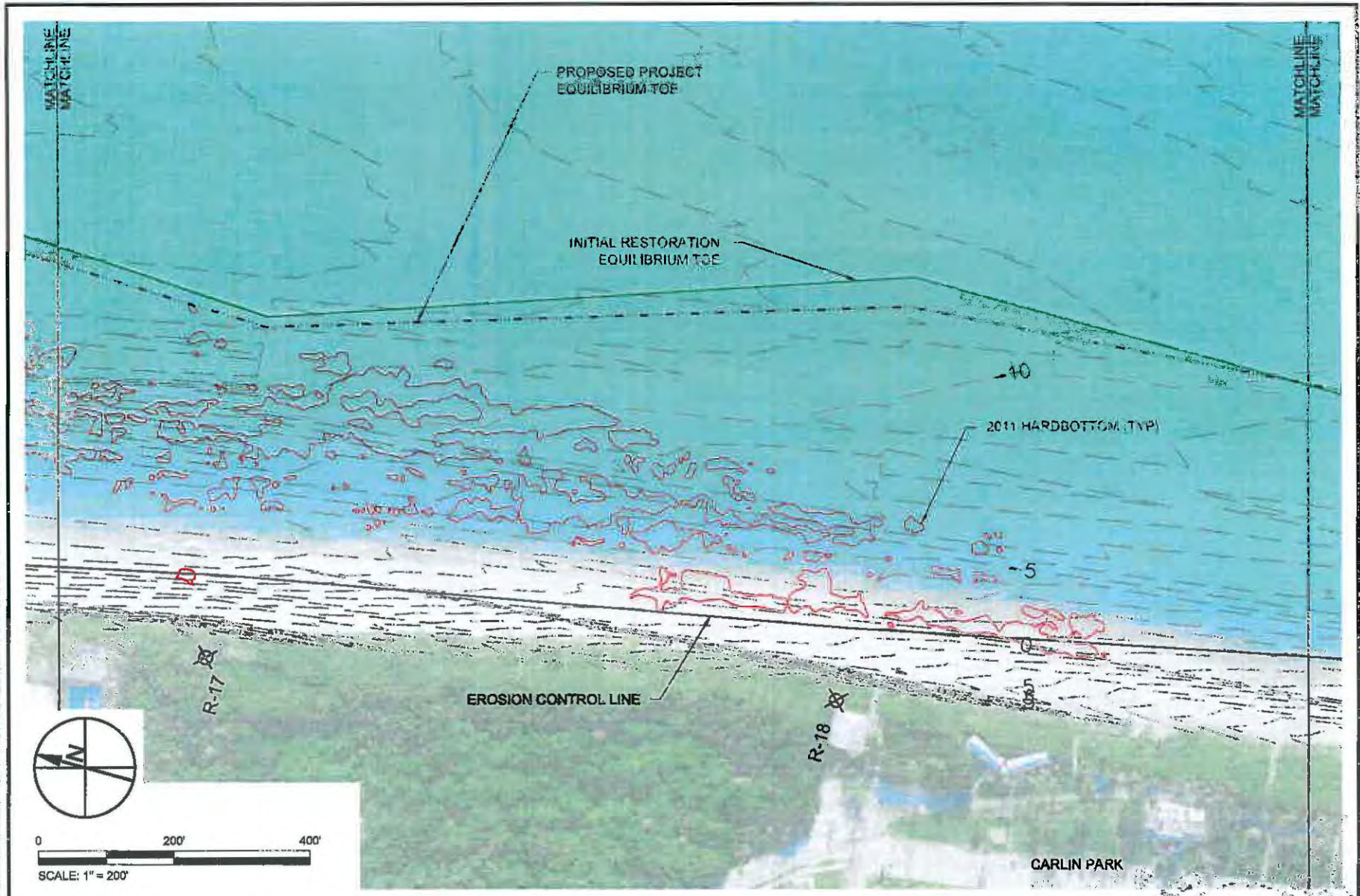
FIGURE 7
 EXISTING BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/JAF
SHEET	7 of 23
DATE	JUNE 2013

SEAL

 KENNETH R. CHANEY, P.E. No. 12400
 DATE

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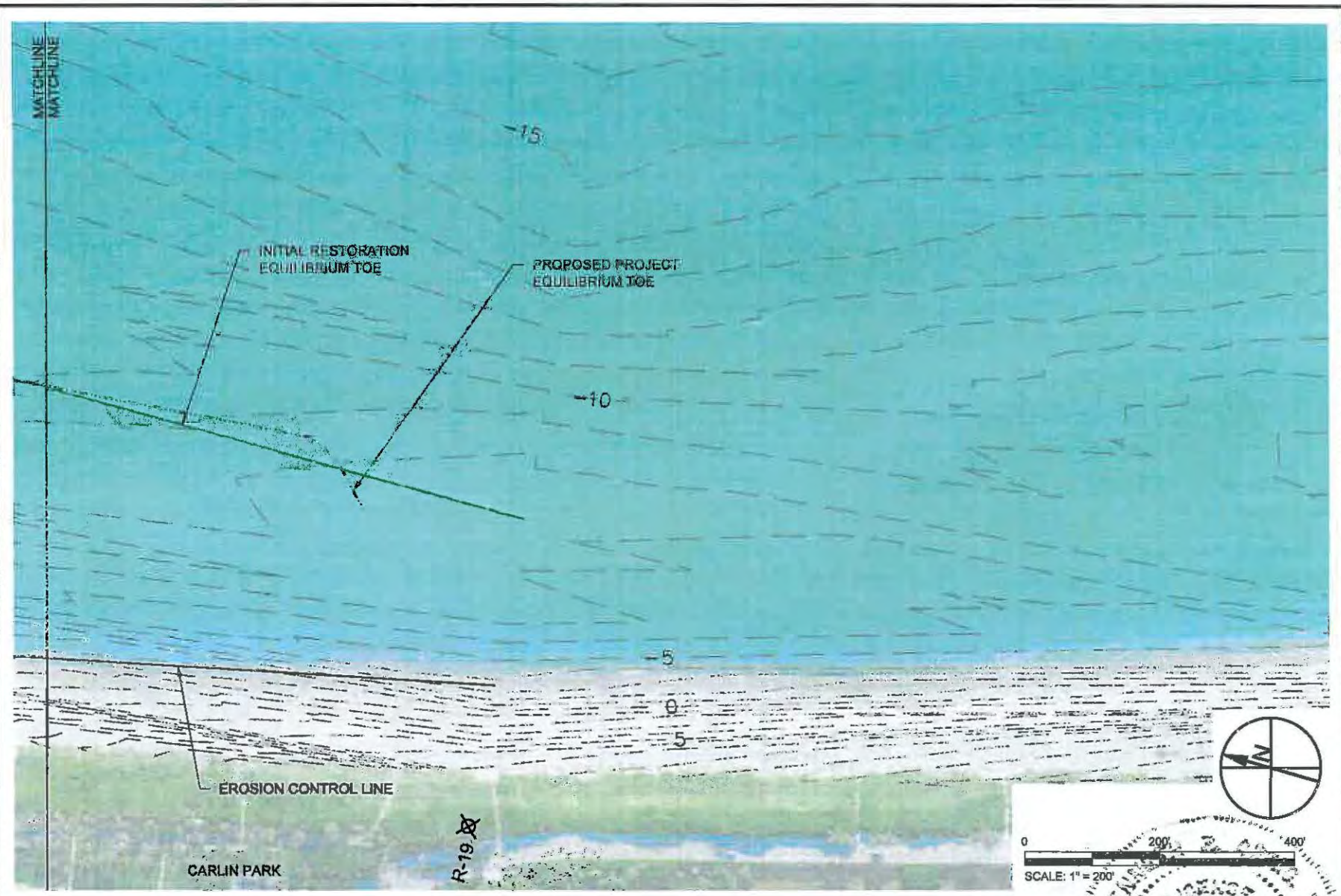
FIGURE 8
 EXISTING BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	8 of 23
DATE	JUNE 2013

SEAL
RLJ 6/26/13
 KENNETH R. CHONG II P.E. 2862
 DATE

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8 1/2" x 11" (215 x 280 mm) 8 1/2" x 11" (215 x 280 mm)



PERMIT # 303863002

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 CERTIFICATE OF AUTHORIZATION # 4815



FIGURE 9
 EXISTING BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

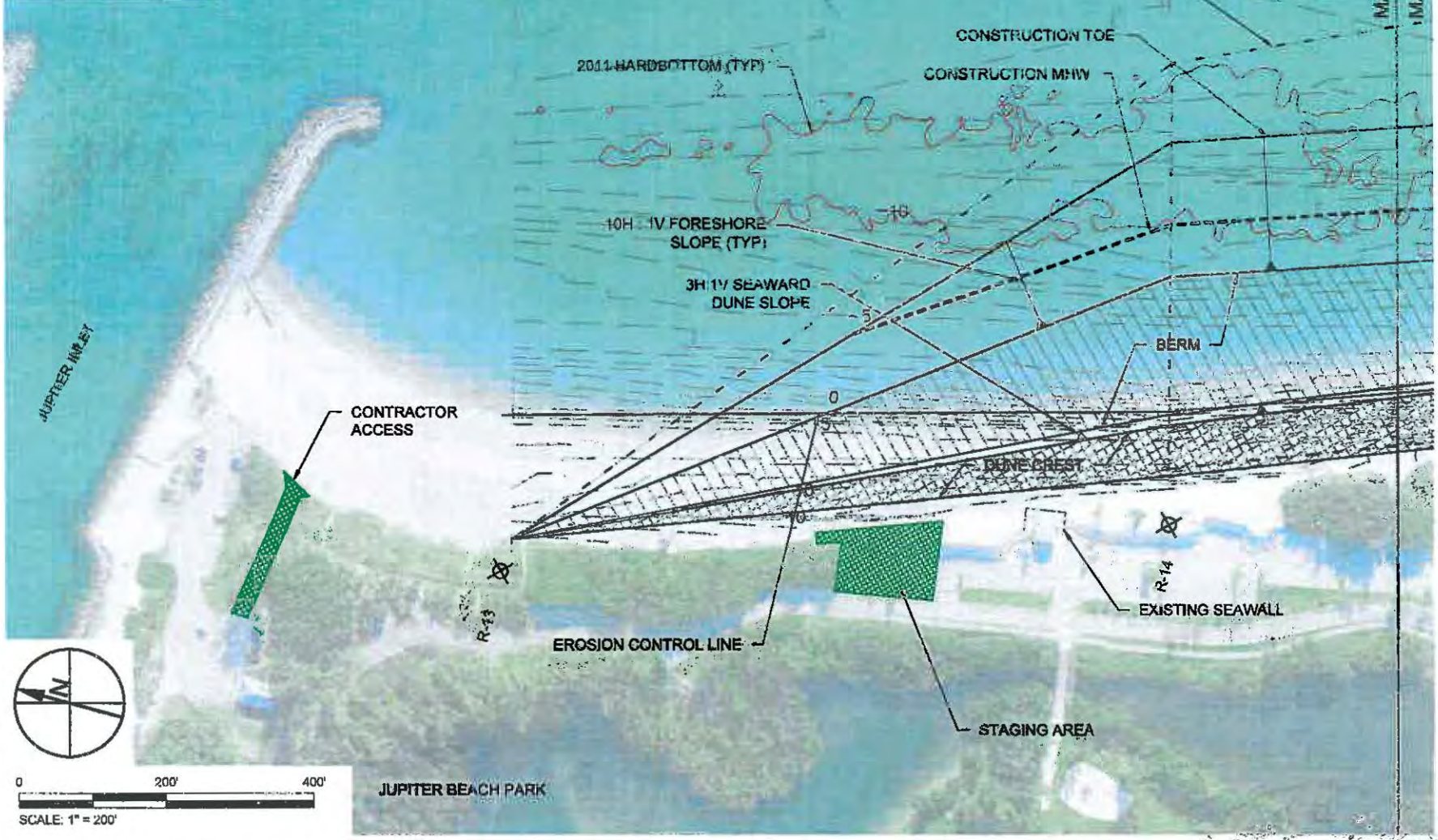
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	9 of 23
DATE	JUNE 2013

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 KENNETH R. CRAIG P.E. # 22005
 DATE 6/26/13

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LEGEND:

	DUNE CREST
	BERM




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FIGURE 10
BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

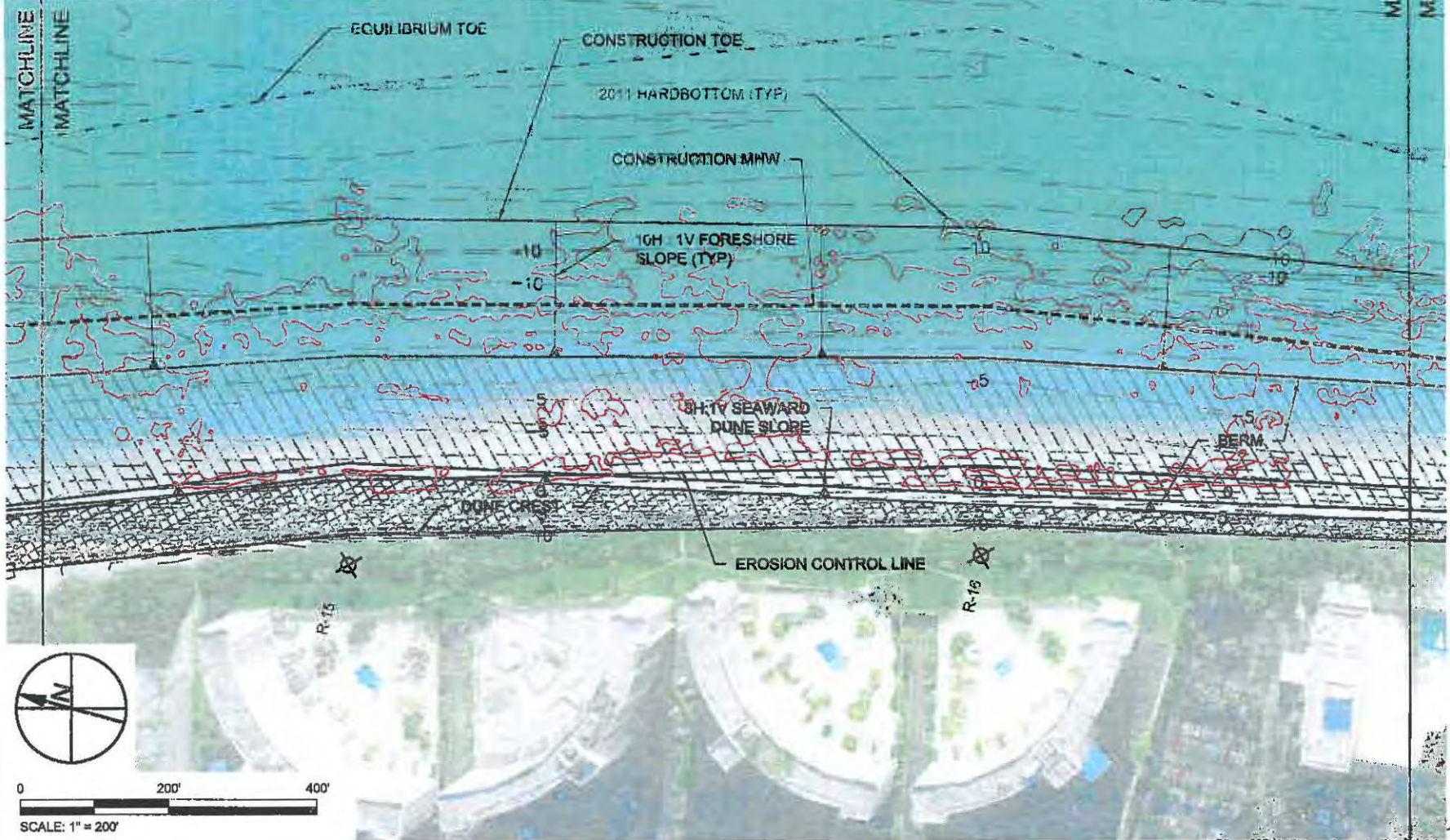
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	10 of 23
DATE	JUNE 2013



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LEGEND:

	DUNE CREST
	BERM



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FIGURE 11
 BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/JAF
SHEET	11 of 23
DATE	JUNE 2013



SEAL

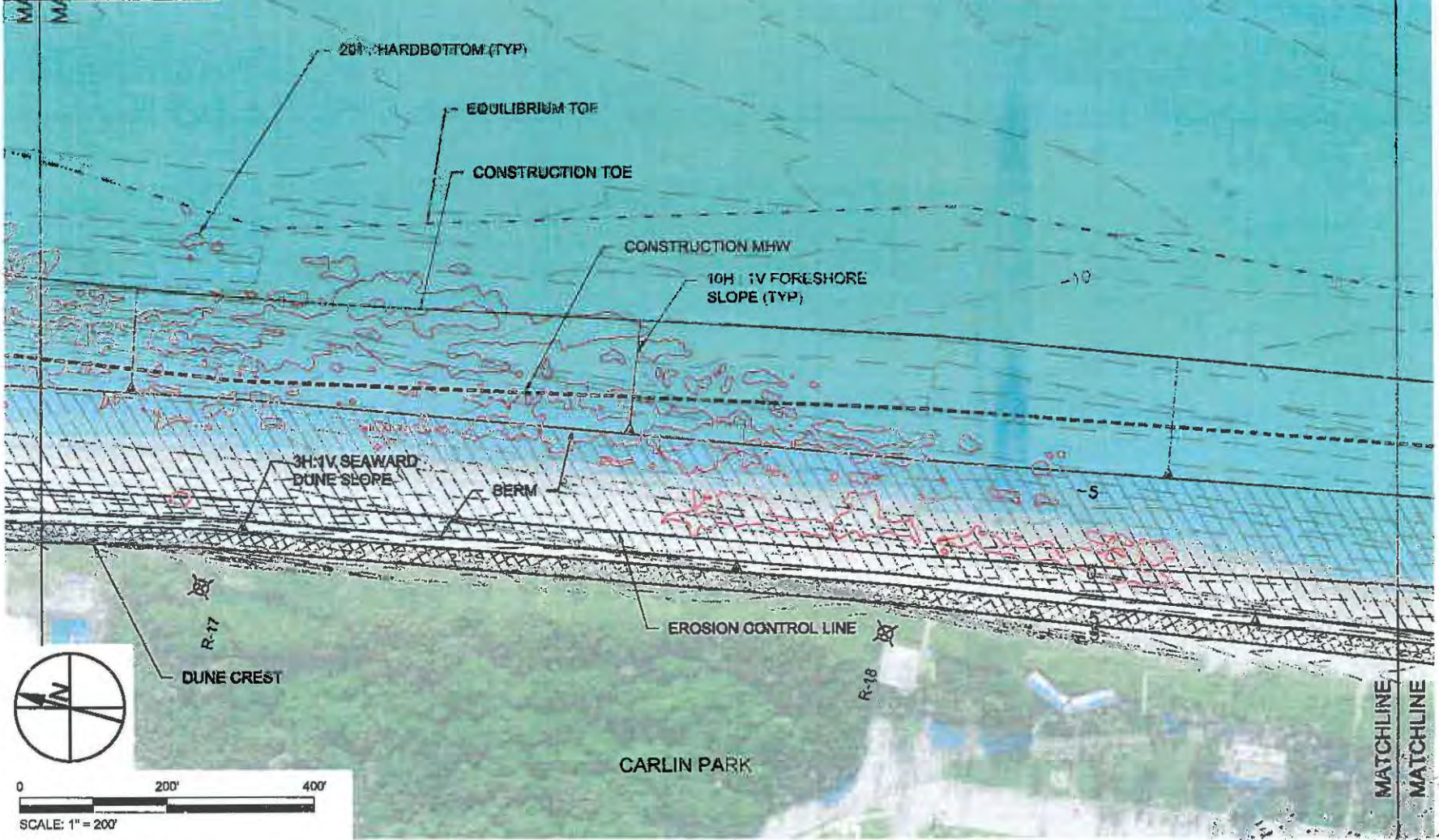
 KENNETH R. CRAIG, P.E. No. 20008
 DATE

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PERMIT # 903 863 002

LEGEND:

	DUNE CREST
	BERM



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FIGURE 12
BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA


PROJECT	C2008-081
DRAWN BY	RI./JAF
SHEET	12 of 23
DATE	JUNE 2013


SEAL

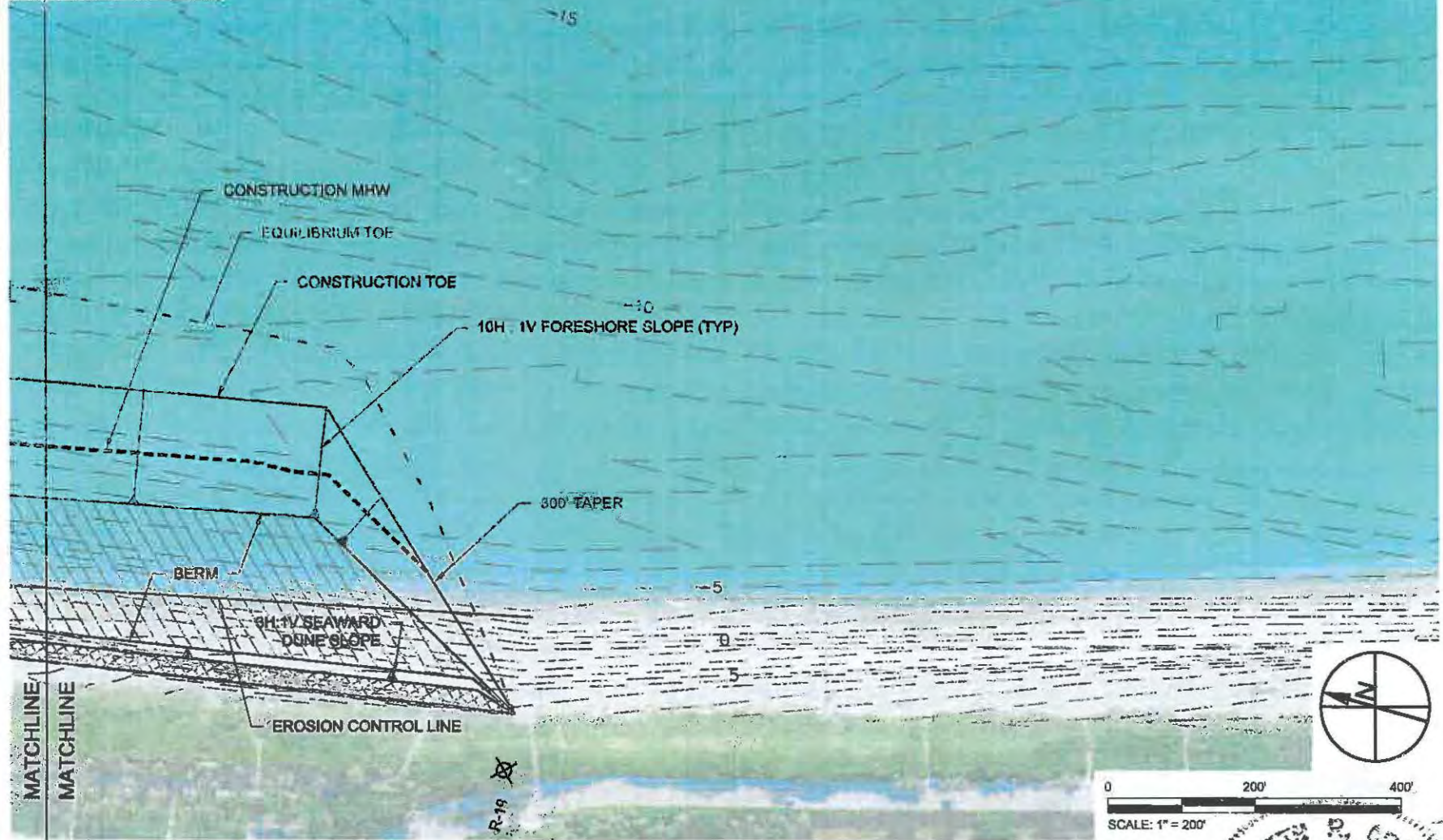
 KENNETH R. CRAIG P.E. # 52865
 DATE

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LEGEND:

 DUNE CREST

 BERM



PERMIT # 803863002

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FIGURE 13
BEACH PLAN
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	13 of 23
DATE	JUNE 2013

SEAL

 KENNETH R. CRAIG P.E. #42205
 DATE

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R-MONUMENT POINTS		
DESCRIPTION	EASTING	NORTHING
R-13	958433.59	949332.87
R-14	958739.74	948470.45
R-15	959031.84	947799.88
R-16	959273.33	946977.52
R-17	959447.26	946198.45
R-18	959636.06	945281.73
R-19	959812.07	943958.48



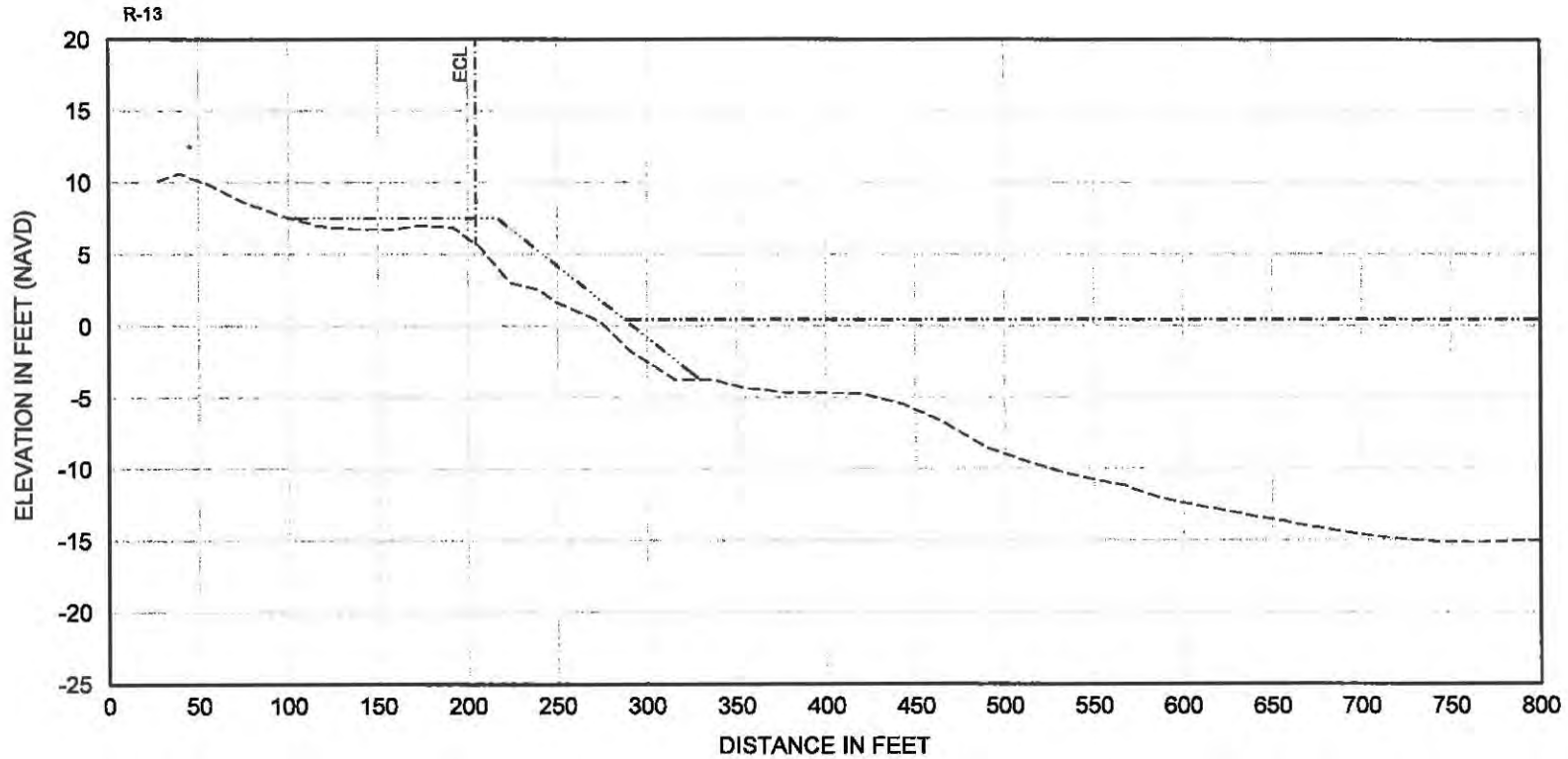
TAYLOR ENGINEERING INC.
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BLDG. 300, SUITE 300
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CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 14
BEACH PLAN R-MONUMENT TABLE
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	14 of 23
DATE	JUNE 2013

SEAL
KENNETH R. CRAIG
6/26/13
KENNETH R. CRAIG, P.E. # 52805

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R-13 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- EQUILIBRIUM PROFILE
- MHWS P. GRADE
- DESIGN TEMPLATE



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FIGURE 15
BEACH SECTION R-13
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

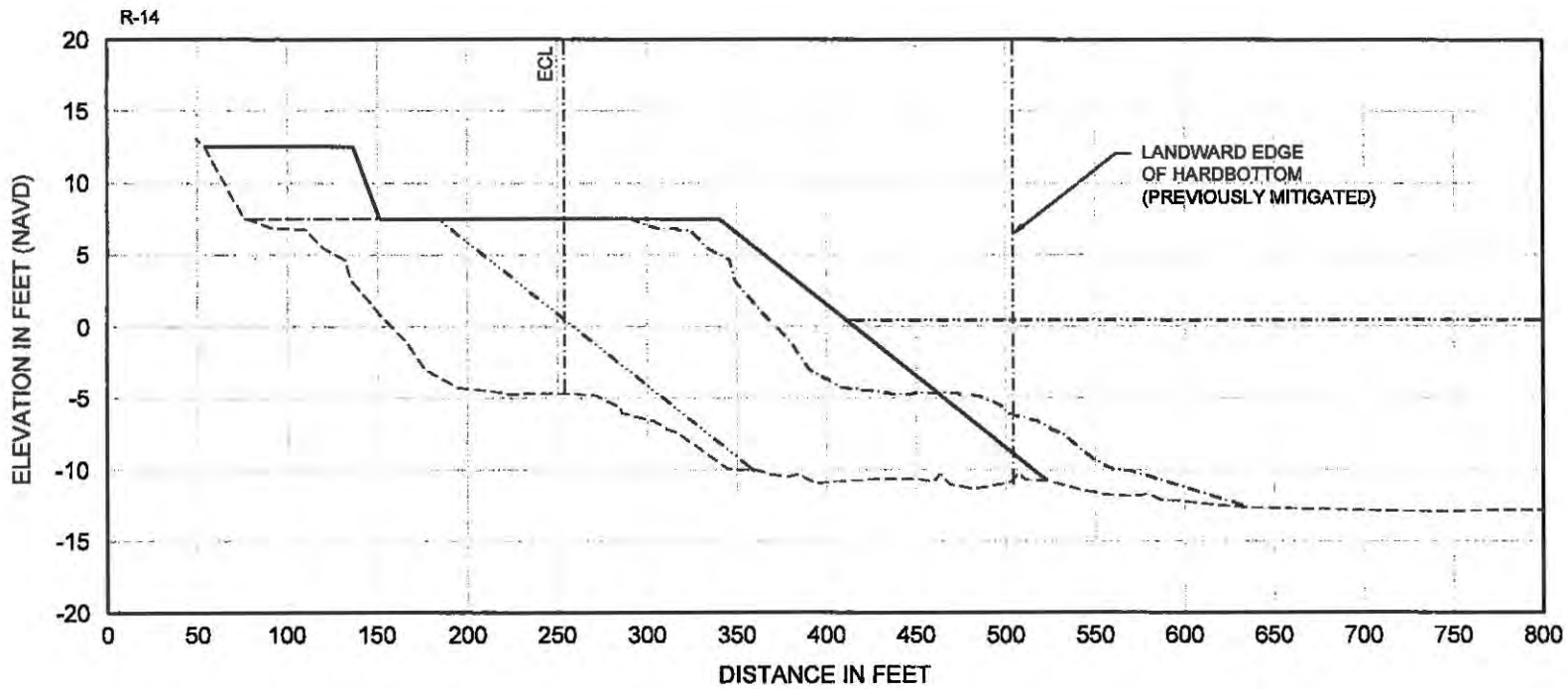
PROJECT	C2008-081
DRAWN BY	REJ/AF
SHEET	15 of 23
DATE	JUNE 2013

SEAL
[Signature]
KENNETH R. SPANG P. ENG. 62085
DATE

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PERMIT # 803863002



R-14 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- - - - - EQUILIBRIUM PROFILE
- MHW
- DESIGN TEMPLATE



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FIGURE 16
BEACH SECTION R-14
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	18 of 23
DATE	JUNE 2013

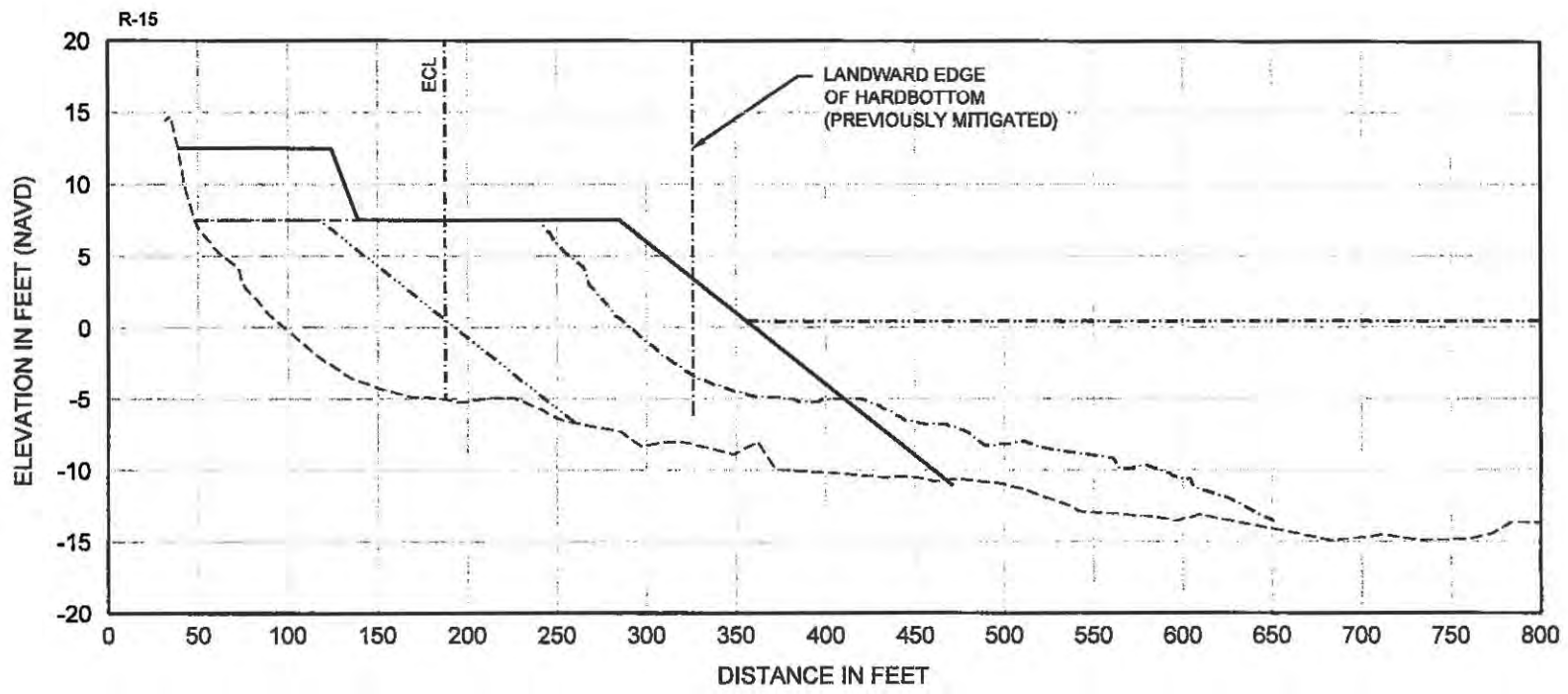
SEAL

RLJ 6/26/13

KENNETH R. CRANO II P.E. 92298

DATE

PERMIT # 303 863 002



R-15 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- EQUILIBRIUM PROFILE
- · - · - MHW
- DESIGN TEMPLATE

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 JACKSONVILLE, FL 32256
 CERTIFICATE OF AUTHORIZATION # 4815

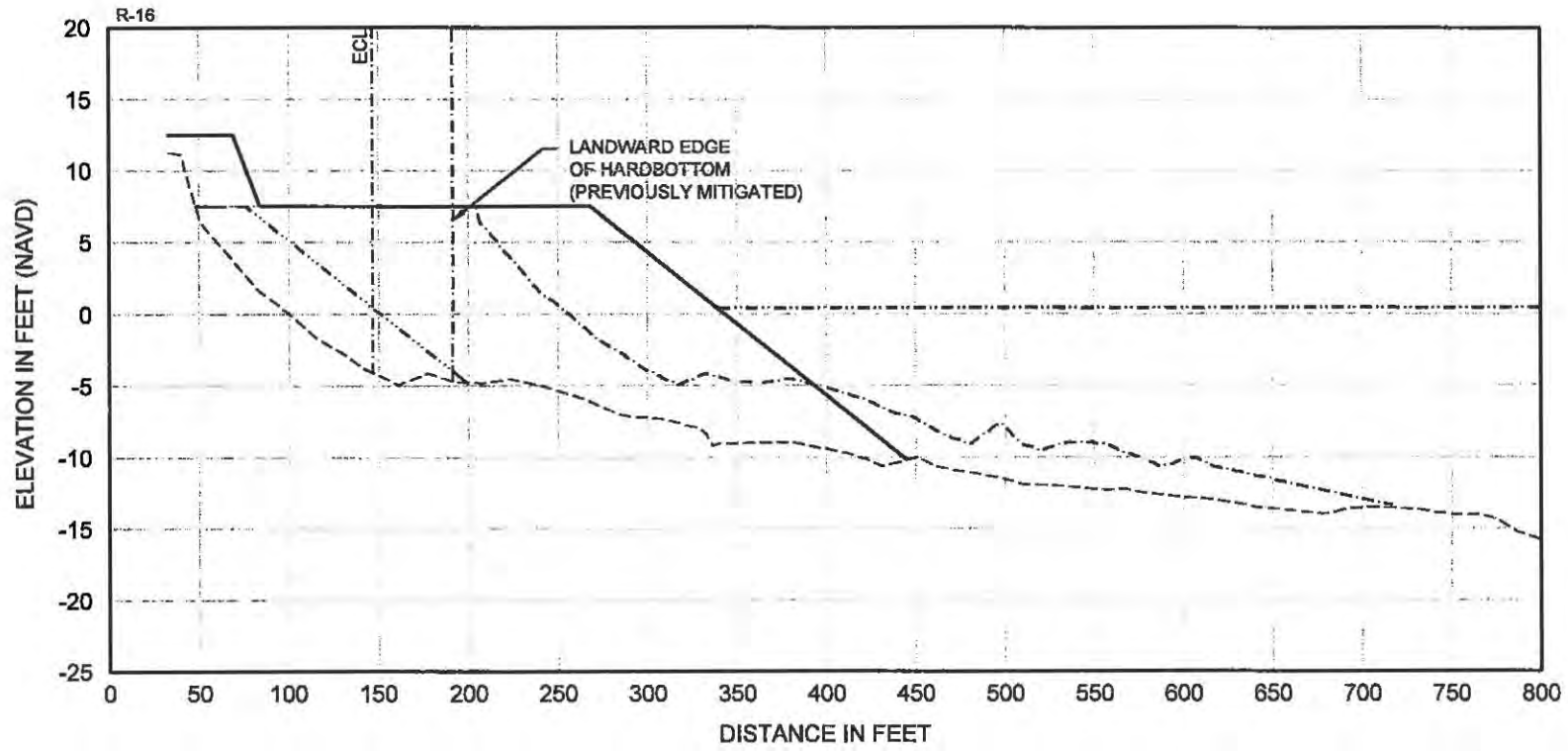
FIGURE 17
 BEACH SECTION R-15
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	17 of 23
DATE	JUNE 2013

SEAL

 DATE

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



R-16 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- · - · - EQUILIBRIUM PROFILE
- MHW
- DESIGN TEMPLATE

TAYLOR ENGINEERING INC.
 10151 DEERWOOD PARK BLVD.
 BLDG. 300, SUITE 300
 JACKSONVILLE, FL 32256
 CERTIFICATE OF AUTHORIZATION #4815

FIGURE 18
 BEACH SECTION R-16
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

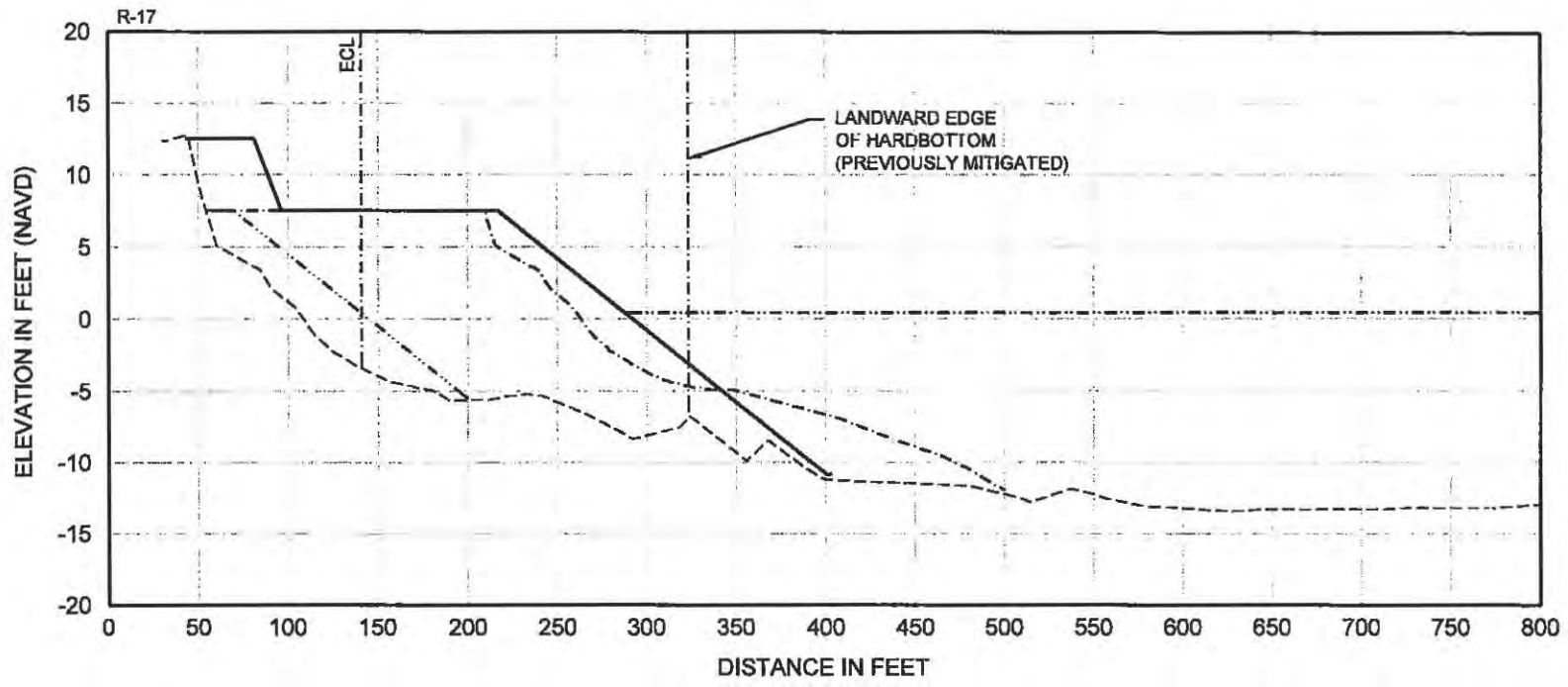
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	18 of 23
DATE	JUNE 2013

Professional Engineer Seal
 KENNETH R. CRAIG, P.E. #2605
 DATE

PERMIT # 903 863 002

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PERMIT # 303863002



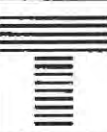
R-17 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- - - - - EQUILIBRIUM PROFILE
- · - · - MRW
- · - · - DESIGN TEMPLATE



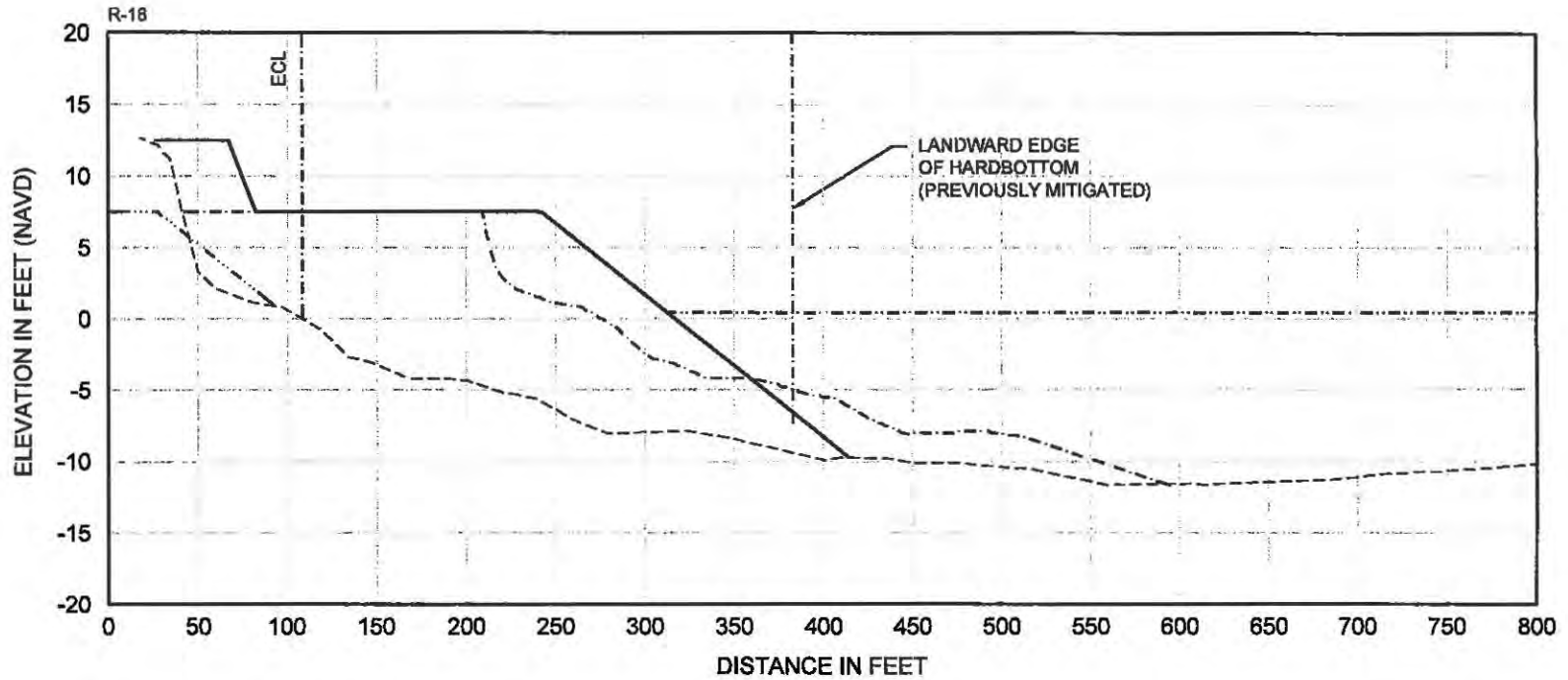
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 JACKSONVILLE, FL 32256
 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 19
 BEACH SECTION R-17
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	19 of 23
DATE	JUNE 2013

Professional Engineer Seal for Kenneth R. Crank, No. 12285, State of Florida. The seal includes a signature and the date 6/26/13.

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.



R-18 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- - - - - EQUILIBRIUM PROFILE
- MHW
- DESIGN TEMPLATE

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FIGURE 20
BEACH SECTION R-18
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	20 of 23
DATE	JUNE 2013

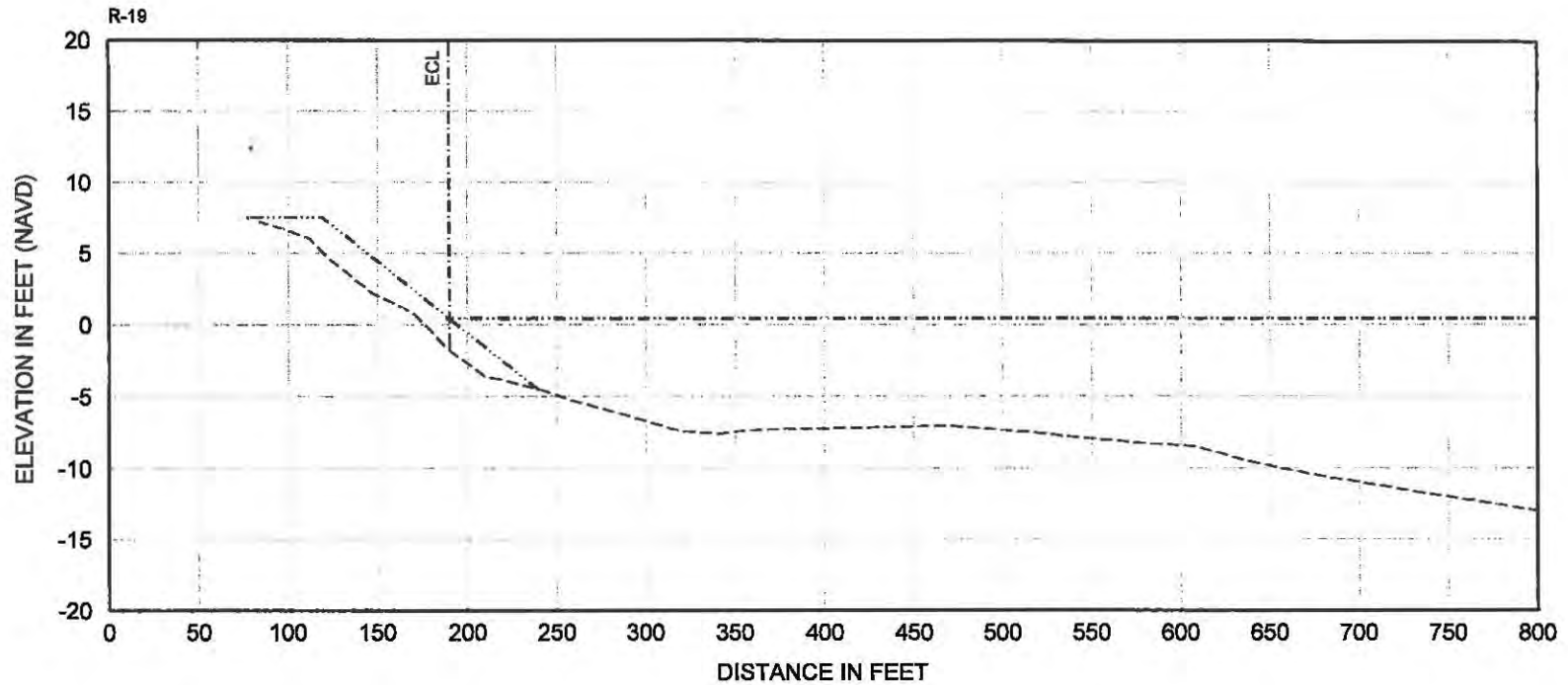
SEAL

Kenneth R. Craig II
4/24/13

PERMIT # 903 863 002

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PERMIT # 303863002



R-19 BEACH SECTION

SCALE: 1" = 100'
V SCALE: 1" = 20'



LEGEND

- EXISTING GRADE (2012)
- CONSTRUCTION TEMPLATE
- EQUILIBRIUM PROFILE
- MFW
- DESIGN TEMPLATE



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CERTIFICATE OF AUTHORIZATION # 4815

FIGURE 21
BEACH SECTION R-19
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

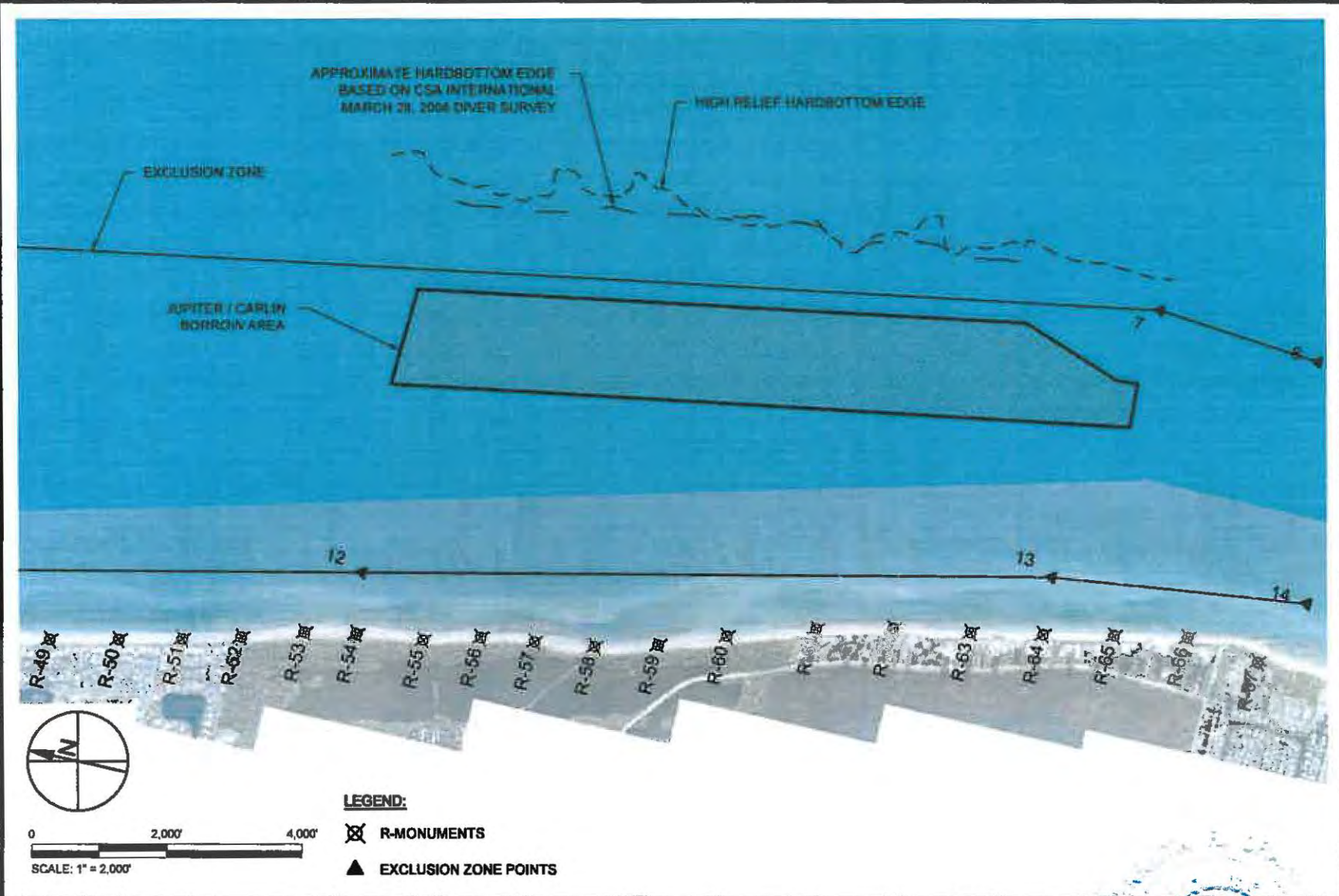
PROJECT	C2008-081
DRAWN BY	RLJ/AF
SHEET	21 of 23
DATE	JUNE 2013

SEALED

 RLJ 6/24/13
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA

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PERMIT # 803863002



LEGEND:

- R-MONUMENTS
- EXCLUSION ZONE POINTS

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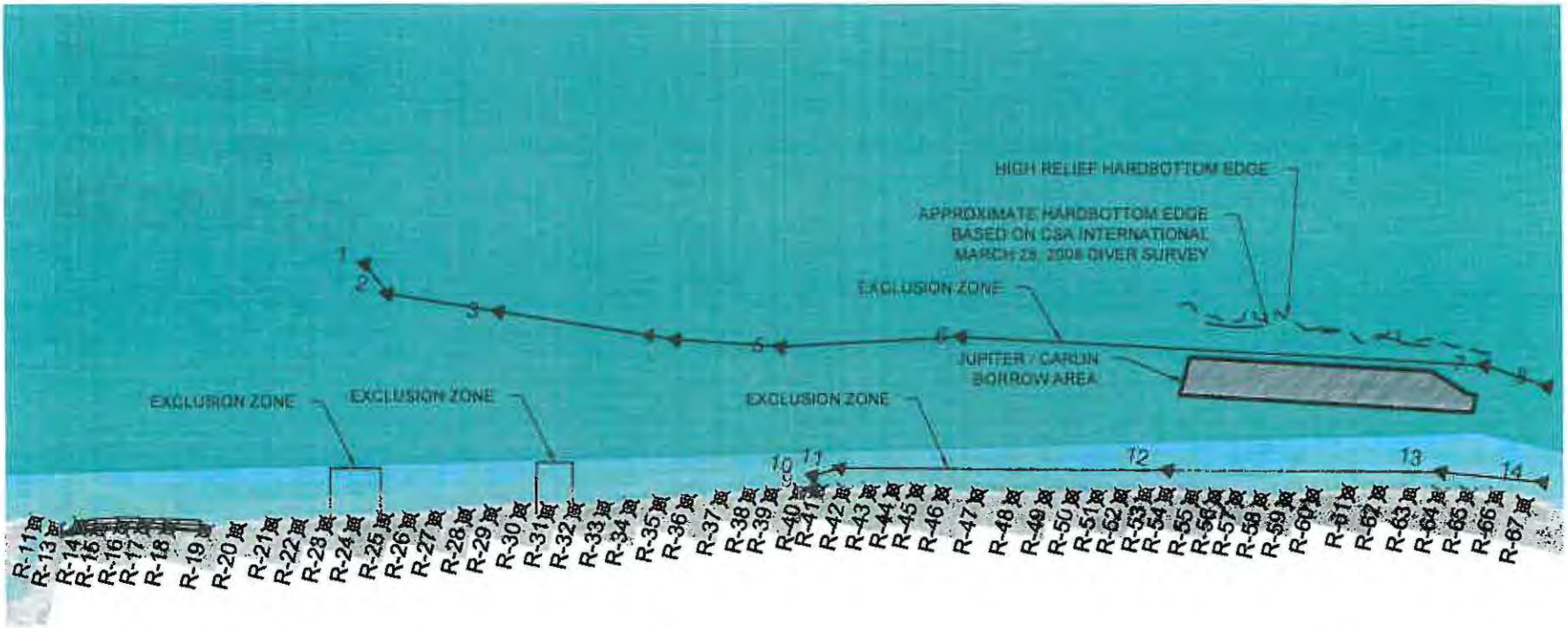
FIGURE 22
DREDGE EXCLUSION ZONES
JUPITER/CARLIN BEACH RESTORATION PROJECT
PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081
DRAWN BY	RLJ/JAF
SHEET	22 of 23
DATE	JUNE 2013

SEAL

 KRC
 6/15/13
 KENNETH R. CRANDALL P.E. # 12451
 DATE

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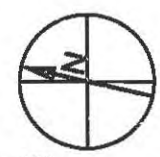
EXCLUSION ZONE COORDINATE TABLE

POINT	EASTING	NORTHING
8	976470.02	896134.42
1	970989.84	940452.05
9	966498.16	922184.22
2	970104.49	939366.10
10	967013.00	922295.52
3	970371.02	935162.13
11	967523.83	921351.61

EXCLUSION ZONE COORDINATE TABLE

POINT	EASTING	NORTHING
4	970832.86	928448.27
12	970200.76	909318.43
5	971456.52	924523.27
13	972451.15	899282.85
6	973346.61	917996.44
14	972930.44	895490.99
7	976699.35	898590.17

LEGEND:
 ⊗ R-MONUMENTS
 ▲ EXCLUSION ZONE POINTS



PERMIT # 903 863 002

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 JACKSONVILLE, FL 32256
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FIGURE 23
 DREDGE EXCLUSION ZONES
 JUPITER/CARLIN BEACH RESTORATION PROJECT
 PALM BEACH COUNTY, FLORIDA

PROJECT	C2008-081	SEAL	
DRAWN BY	RLJ/AF		
SHEET	23 of 23		
DATE	JUNE 2013		

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.