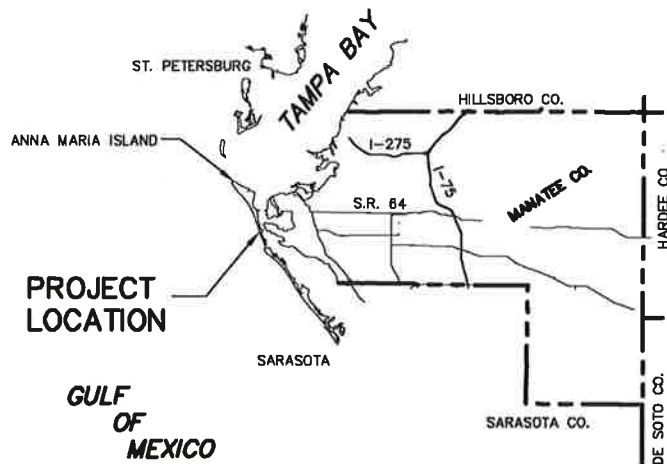
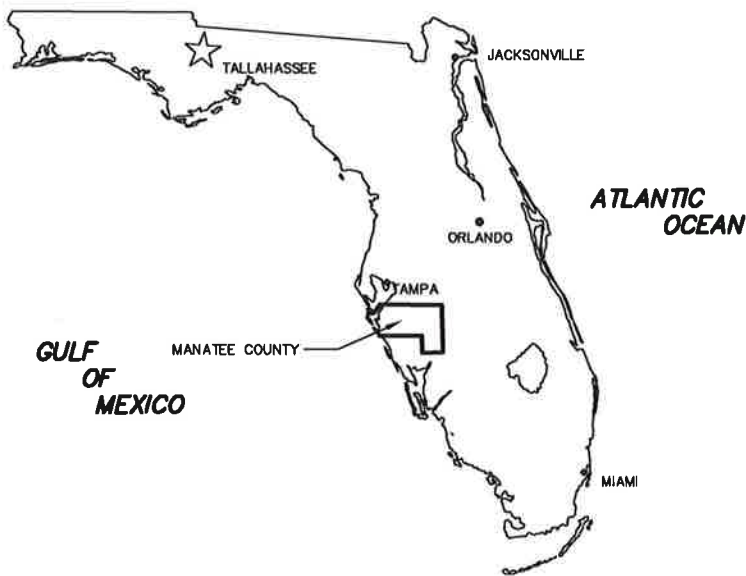


CORTEZ GROINS REMOVAL AND REPLACEMENT PROJECT MANATEE COUNTY, FLORIDA



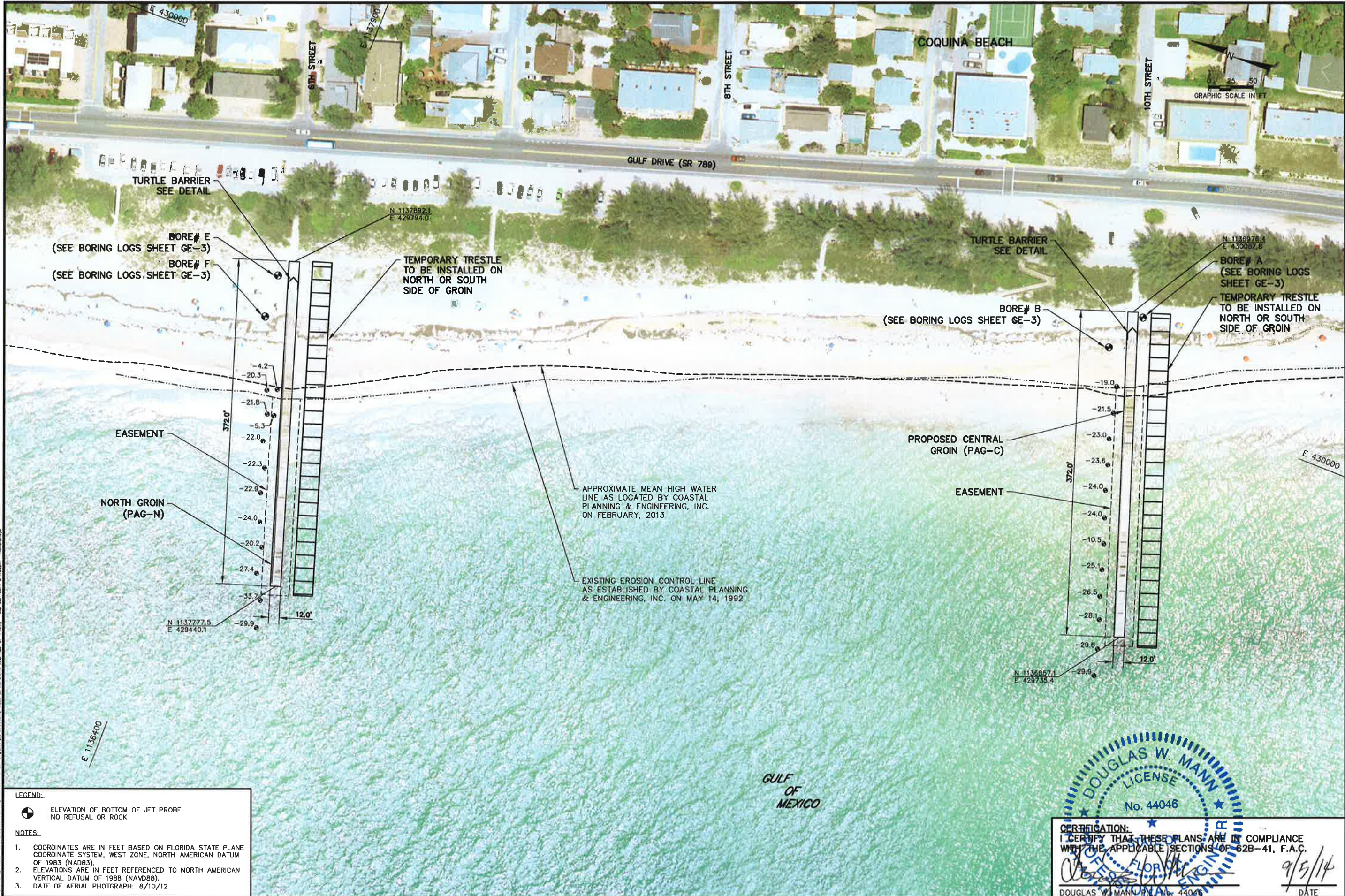
MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS	
<u>CHAIRMAN</u>	
LARRY BUSTLE	
<u>COMMISSIONERS</u>	
MICHAEL GALLEN	
LARRY BUSTLE	
BETSY BENAC	
CAROL WHITMORE	
VANESSA BAUGH	
ROBIN DISABATINO	
JOHN R. CHAPPIE	
<u>COUNTY ADMINISTRATOR</u>	
ED HUNZEKER	
<u>DIRECTOR OF NATURAL RESOURCES DEPARTMENT</u>	
CHARLES HUNSICKER	

SHEET INDEX	
NO.	TITLE
1	COVER SHEET
2	STRUCTURES REMOVAL PLAN VIEW
3-4	CONSTRUCTION PLAN VIEW
5-10	CONSTRUCTION DETAILS
11-13	TYPICAL LONGITUDINAL CROSS SECTION
14-16	GEOTECHNICAL DATA
17	CONSTRUCTION ACCESS AND STAGING AREAS PLAN VIEW



CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.
DOUGLAS W. MANN, P.E. No. 44046
DATE 9/5/14

CB&I COASTAL PLANNING & ENGINEERING, INC.		PH (561) 391-8102 FAX (561) 391-0116 C.O.A. #14033 C.O.A. #2331
2481 N.W. BOCA RATON BOULEVARD BOCA RATON, FLORIDA 33431		www.CBI.com
CORTAZ GROINS REMOVAL AND REPLACEMENT PROJECT MANATEE COUNTY, FLORIDA		COVER SHEET
DRAWING NO.		CS-1
SHEET 1 OF 17		



LEGEND:

● ELEVATION OF BOTTOM OF JET PROBE
○ NO REFUSAL OR ROCK

NOTES:

- COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
- ELEVATIONS ARE IN FEET REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- DATE OF AERIAL PHOTOGRAPH: 8/10/12.

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN
LICENSE
No. 44046

DATE: 9/5/14

CB&I COASTAL PLANNING & ENGINEERING, INC.
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
PH: (561) 391-8102
FAX: (561) 391-8116
C.O.A. FL #0028
C.O.A. LA #2531
www.CBI.com

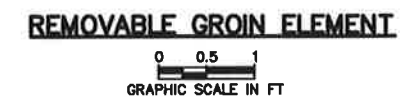
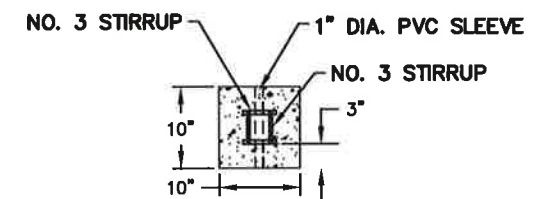
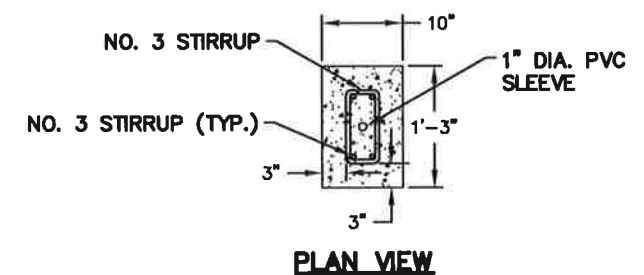
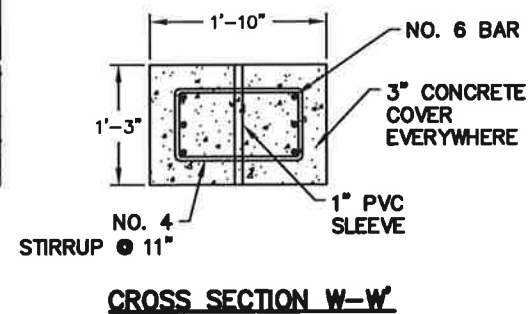
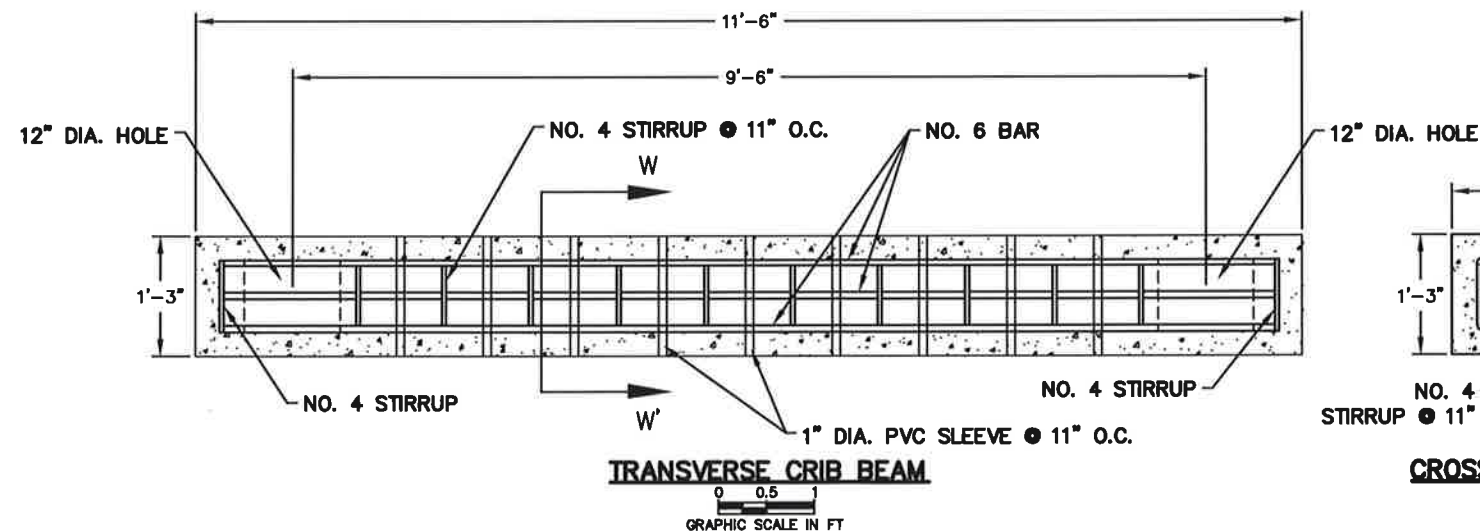
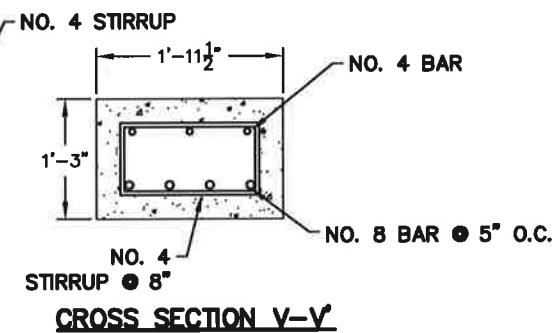
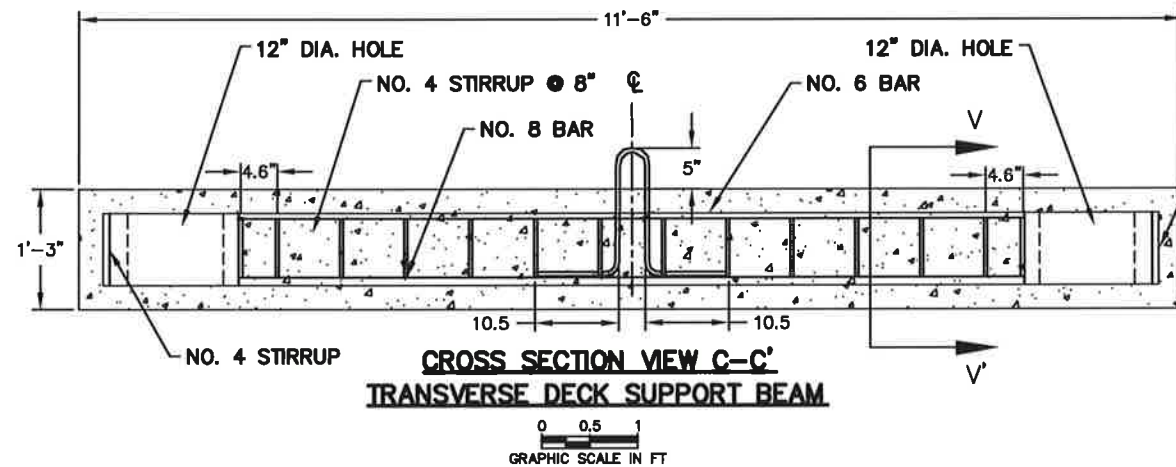
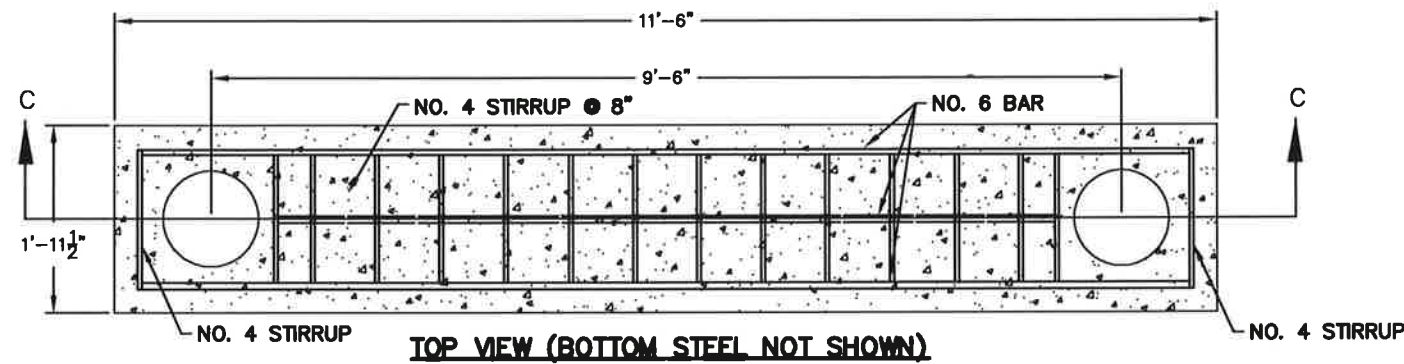
REVISIONS	Checked by:	Reviewed by:	Submitted by:	Comm. No.:
	AMB	DM	DM	148236
	DM	OK	2/25/14	AS NOTED

**CORTEZ GROINS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA**

**CONSTRUCTION
PLAN VIEW**

DRAWING NO. **PV-2**

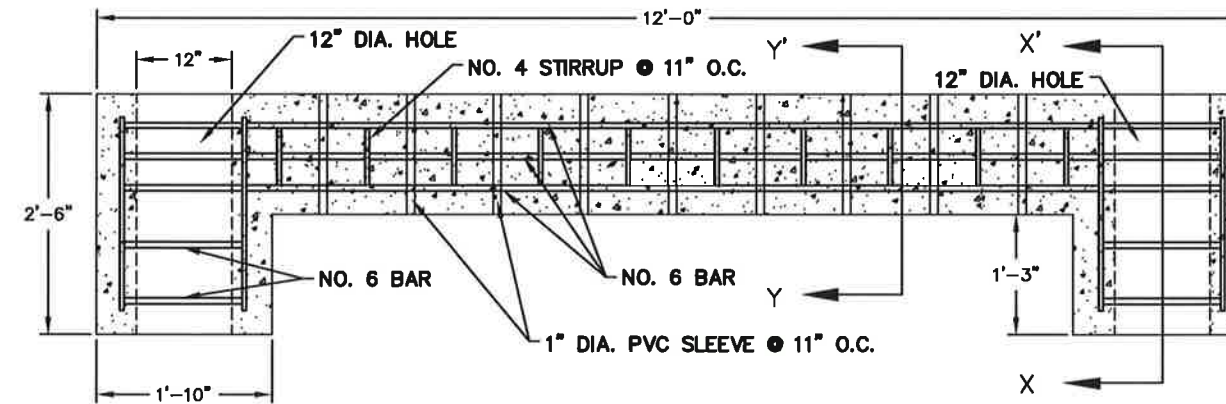
SHEET 3 OF 17



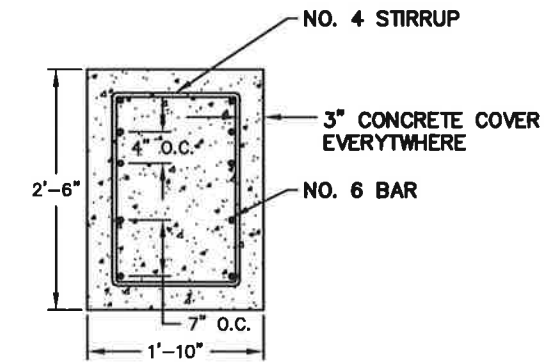
CERTIFICATION
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN P.E. NO. 44046

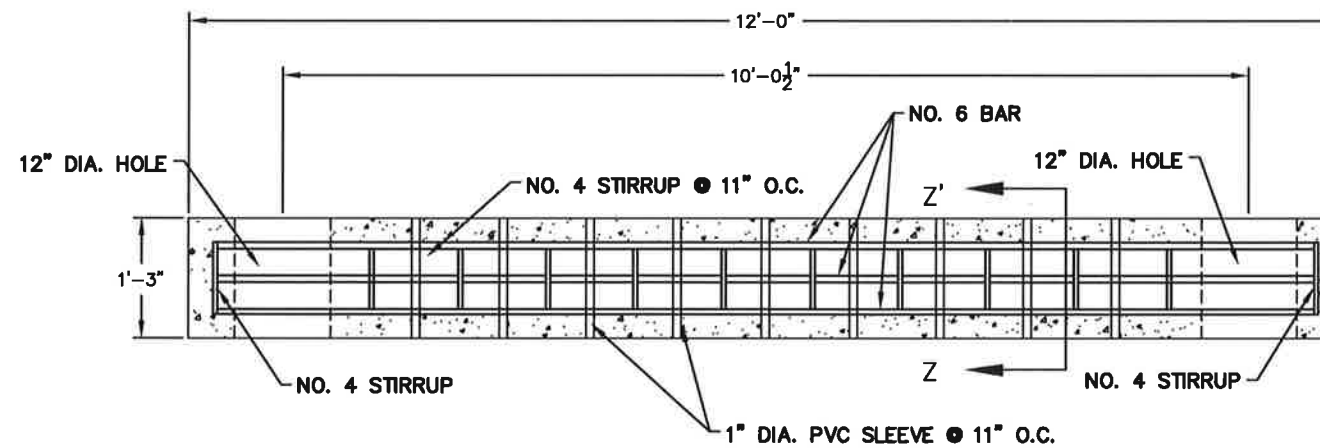
DATE 11/12/14



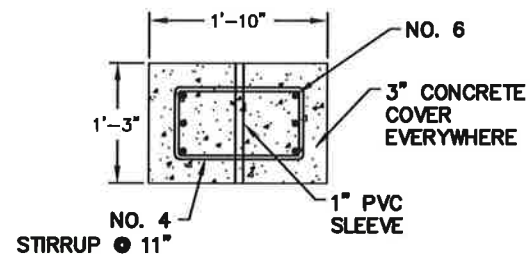
LONGITUDINAL CRIB BEAM



CROSS SECTION X-X'



LONGITUDINAL BASE BEAM



CROSS SECTION Z-Z'

CERTIFICATION
I CERTIFY THAT THESE PLANS ARE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF 62B

[Signature]
DOUGLAS W. MANN, P.E. No. 44046

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DATE _____

DRAWING NO.

DE-3

SHEET 7 OF 17

CB&I COASTAL PL
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.CBI.com

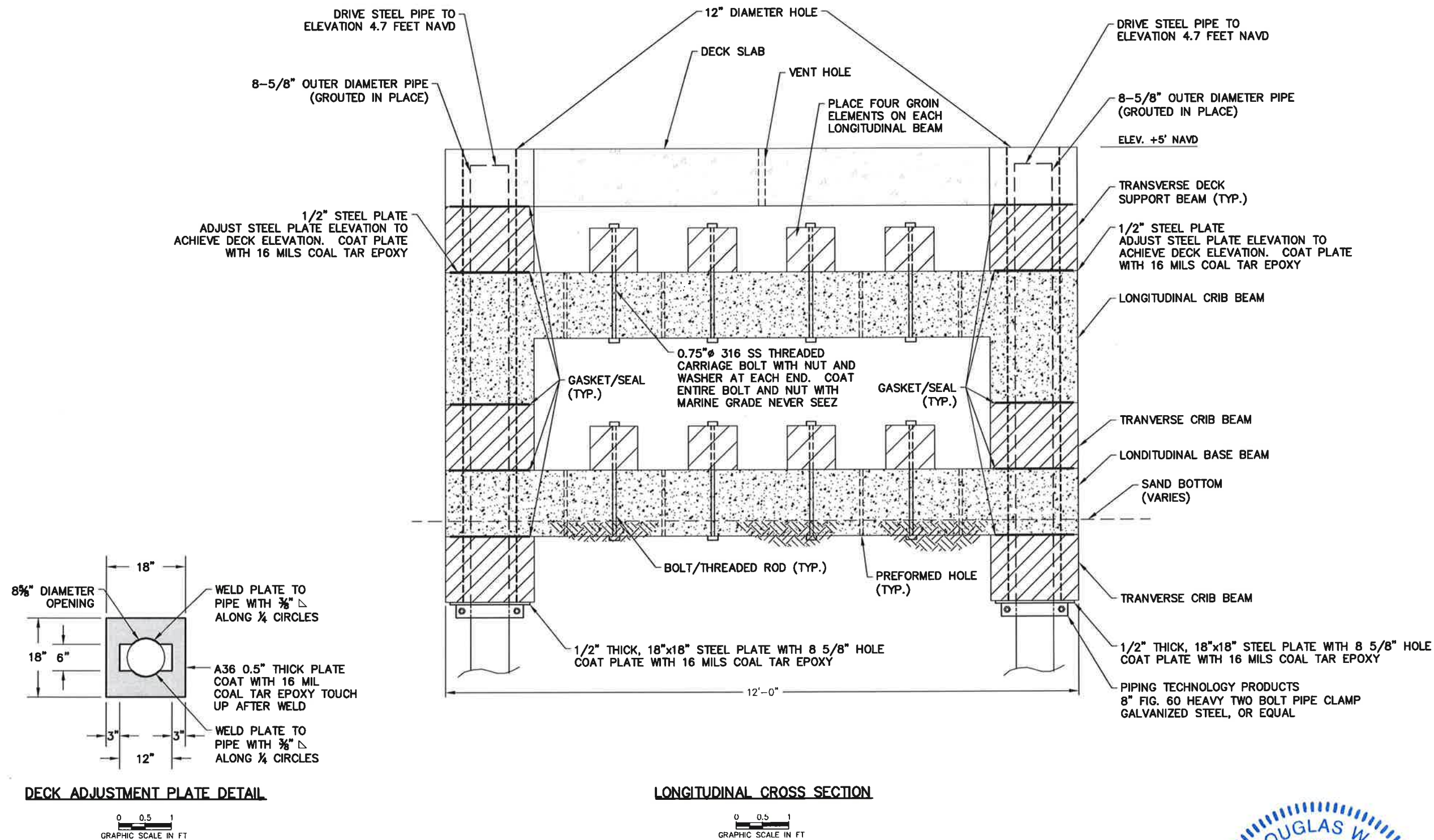
CB&I COASTAL PLANNING & ENGINEERING, INC.

Reference File:	Designed by: SD	Checked by: AMB	REVISONS	
Printed by: AS NOTED	Drawn by: GR	Reviewed by: SD	1	11/6/94
Plot Scale:	Issued by: GR	Submitted by: Dor, 7/25/14		
Part No.:	CD No.:			
147236	147236			
				Description

**CORTEZ GRONDS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA**

CONSTRUCTION DETAILS

P:\Projects\142236 - Manatee County Green Infrastructure\Drawings\142236 Cortez Groins Detail 2D\142236 Cortez Groins Detail 2D.dwg - Sep 05, 2014 @ 1:30pm - bmann@cbi.com



NOTE:

1. GROUT HOLES WITH 5000 PSI GROUT WITH PEA GRAVEL.
2. STEEL REINFORCING AND CONNECTION DETAILS NOT SHOWN.



CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN P.E. NO. 44046

DATE

9/5/14

CB&I Coastal Planning & Engineering, Inc.
2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.CBI.com
PH: (561) 391-8102
FAX: (561) 391-8116
C.O.A. #14231
C.S.A. #2531

REVISIONS	
No.	Description

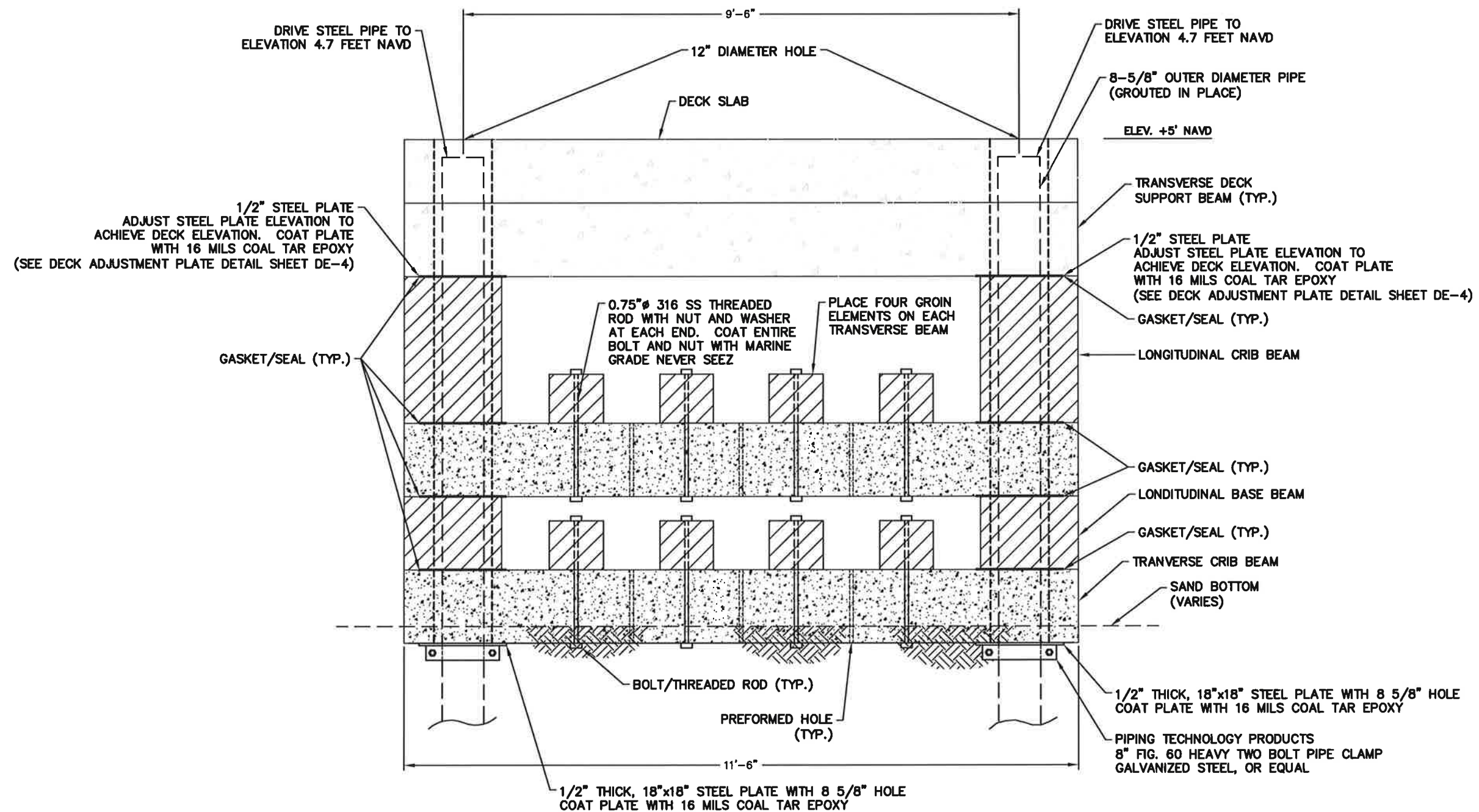
Designed by:	Checked by:
SD	AMB
Drawn by:	Reviewed by:
CK	SD
Date:	Submitted by:
2/25/14	SD
Plot Scale:	Comm. No.:
AS NOTED	147236

CORTEZ GROINS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA
CONSTRUCTION DETAILS

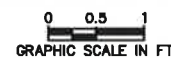
DRAWING NO.

DE-4

SHEET 8 OF 17



TRANSVERSE CROSS SECTION



NOTE:

1. GROUT HOLES WITH 5000 PSI GROUT WITH PEA GRAVEL.
2. STEEL REINFORCING AND CONNECTION DETAILS NOT SHOWN.



CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN, P.E., NO. 44046

DATE

CB&I Coastal Planning & Engineering, Inc.

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431

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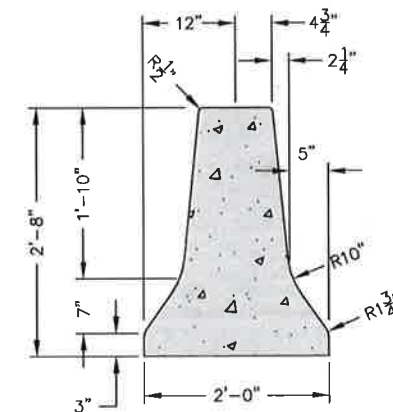
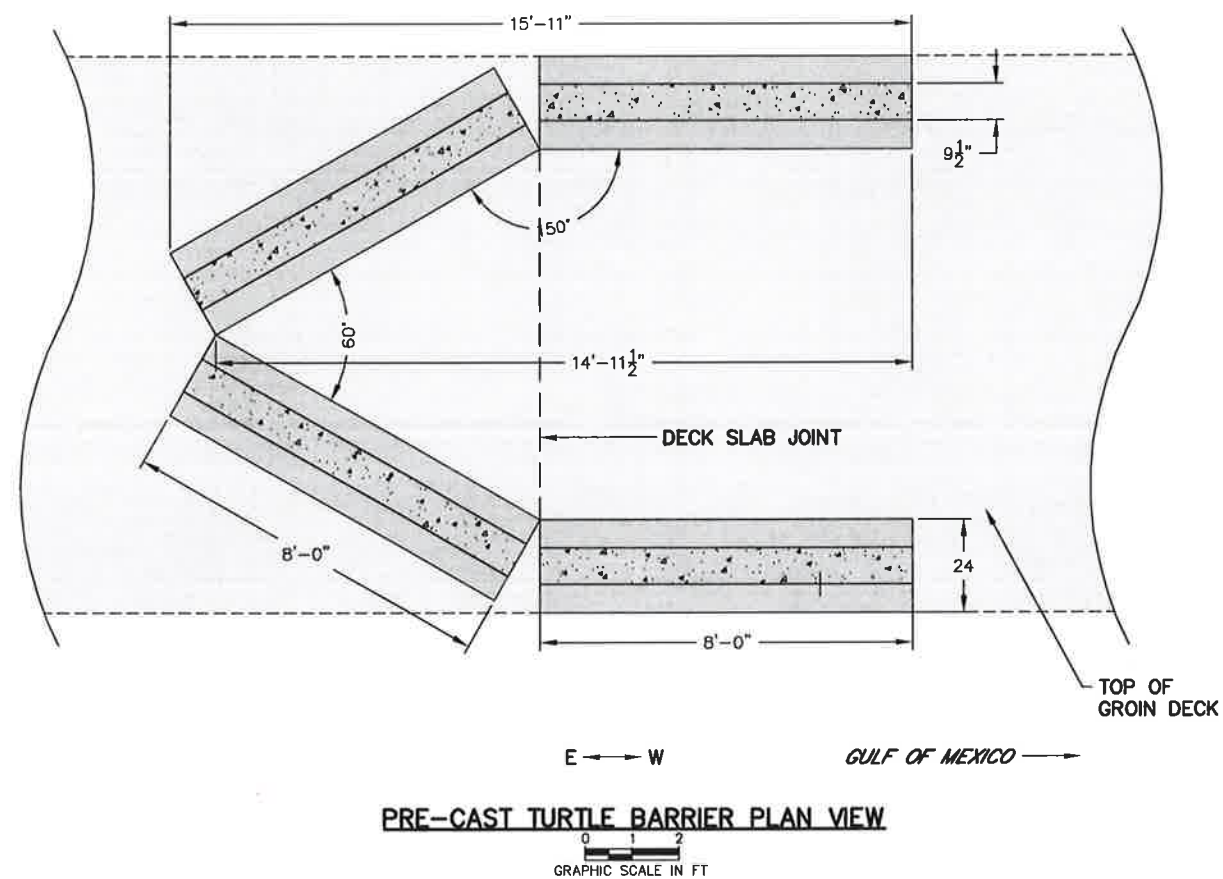
PH. (561) 391-3102
FAX (561) 391-3116
C.O.A. FL #4028
C.O.A. LA #2531

CORTEZ GRONS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA
CONSTRUCTION DETAILS

DRAWING NO.

DE-5

SHEET 9 OF 17



PRE-CAST TURTLE BARRIER CROSS SECTION
PER FDOT INDEX 414 (SUBMIT SHOP DRAWINGS)

0 0.5 1
GRAPHIC SCALE IN FT

E ←→ W GULF OF MEXICO →

PRE-CAST TURTLE BARRIER PLAN VIEW

0 1 2
GRAPHIC SCALE IN FT

CERTIFICATION:
I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE
WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN F.B. NO. 44D46

9/5/14
DATE

**CORTEZ GROINS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA
PRE-CAST TURTLE BARRIER
DETAILS**

DRAWING NO.

DE-6

SHEET 10 OF 17

CB&I COASTAL PLANNING & ENGINEERING, INC.

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431

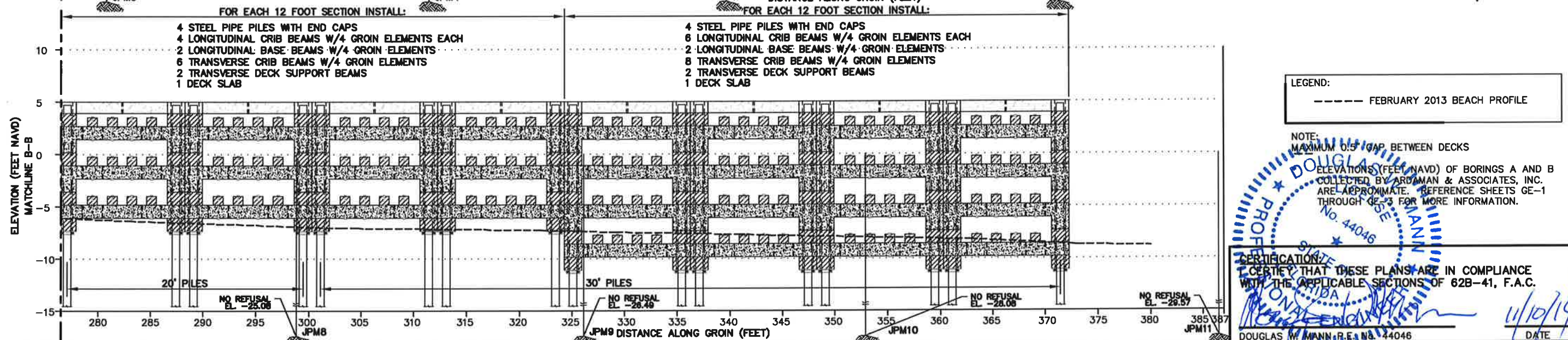
PH. (561) 391-8102
FAX (561) 391-9116
C.O.A. FL. #4028
C.O.A. LA. #2531

PH. (561) 391-8102

PH. (561) 391-8102

PH. (561) 391-8102

www.CBI.com

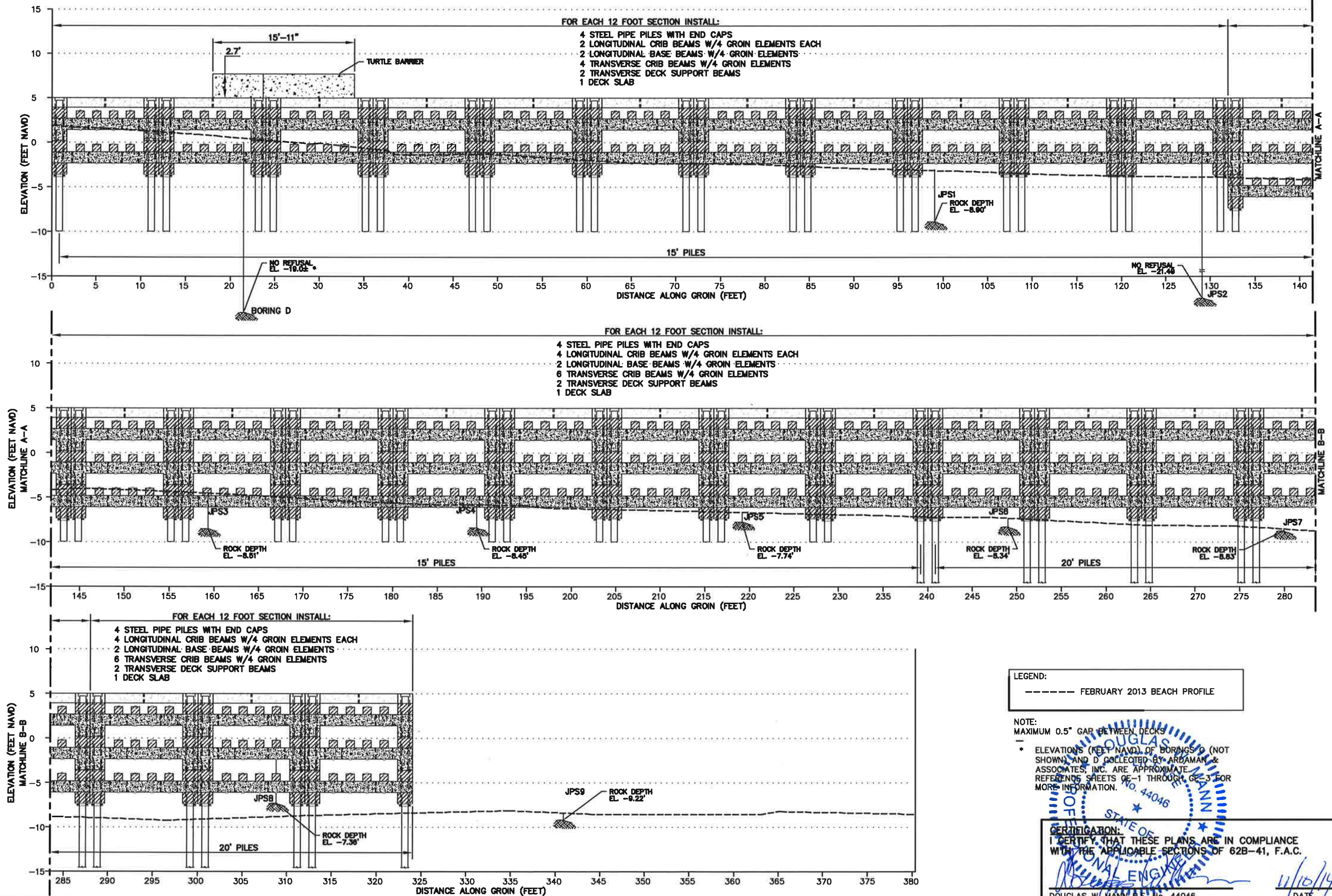


DRAWING NO.

XS-2

SHEET 12 OF 17

P:\Projects\140238 - 14.48 Cortez Groin Replacement Pre-Construction\140238 Cortez Groin XS-3-27-14.dwg - Nov 15, 2014 9:54am - George Pappalardo



CB&I COASTAL PLANNING & ENGINEERING, INC.

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BOCA RATON, FLORIDA 33431

www.cb-i.com

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FAX: (561) 391-9116
C.O.A. FL #4028
C.O.A. LA #2531

CORTIZ GROINS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA
SOUTH GROIN PAG-S
LONGITUDINAL
CROSS SECTION

DRAWING NO.

XS-3

SHEET 13 OF 17



LEGEND:

CONSTRUCTION ACCESS

STAGING AREA

- NOTES:**
1. COORDINATES ARE IN FEET BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83).
 2. USE OF PARKING AREAS AND RIGHT OF WAY SUBJECT TO COUNTY AND FDOT APPROVED MAINTENANCE OF TRAFFIC PLAN.
 3. THE CONTRACTOR SHALL COORDINATE THE USE OF THE CONSTRUCTION ACCESS AREAS THROUGH THE COUNTY.
 4. DATE OF AERIAL PHOTOGRAPH: 8/10/12.

CERTIFICATION:

I CERTIFY THAT THESE PLANS ARE IN COMPLIANCE WITH THE APPLICABLE SECTIONS OF 62B-41, F.A.C.

DOUGLAS W. MANN, P.E. No. 44046

9/5/14

DATE

CB&I COASTAL PLANNING & ENGINEERING, INC.

2481 N.W. BOCA RATON BOULEVARD
BOCA RATON, FLORIDA 33431
www.CBI.com

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FAX: (561) 391-9116
C.O.A. #4026
C.O.A. #2331

REVISIONS	Checked by:	Designed by:	Drawn by:	Date:	Project:	Scale:	Notes:
	AMS	DM	CK	2/25/14	AS NOTED	1:482.36	
	DM						
	DM						
	DM						

**CORTEZ GROINS
REMOVAL AND REPLACEMENT PROJECT
MANATEE COUNTY, FLORIDA
CONSTRUCTION ACCESS
AND STAGING AREAS
PLAN VIEW**

DRAWING NO. **PV-4**

SHEET 17 OF 17