

BERTH 1 IMPROVEMENTS

at the Port of Palm Beach
City of Riviera Beach, Florida



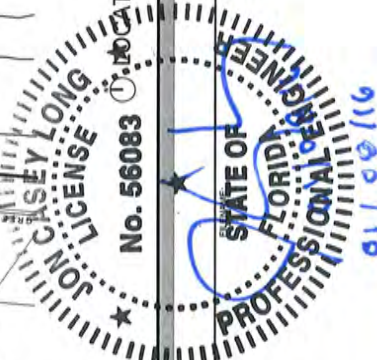
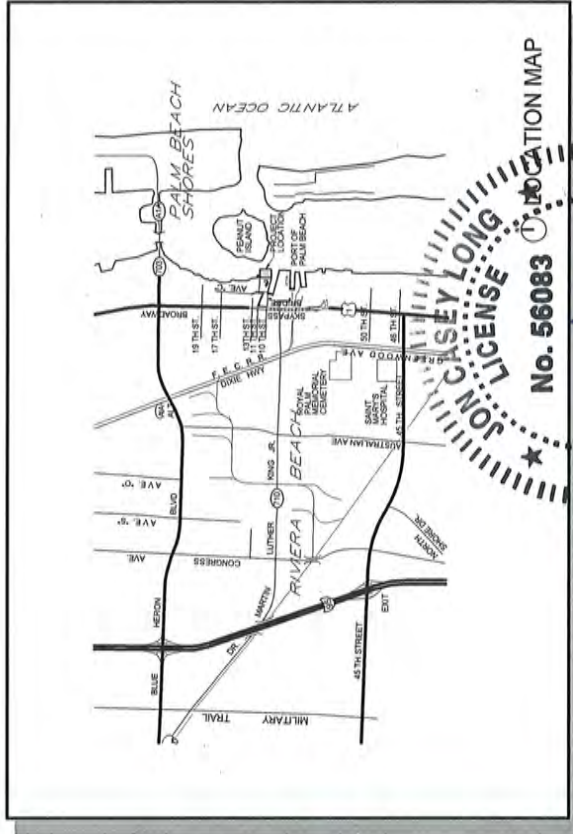
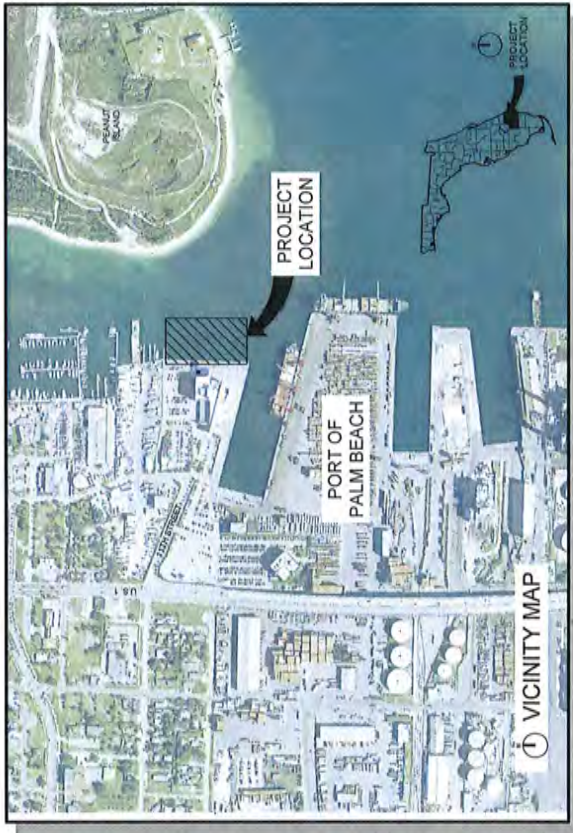
INDEX OF DRAWINGS

- P-1 PERMIT
- P-2 COVER SHEET AND INDEX OF DRAWINGS
- P-3 EXISTING PORT PLAN EXISTING CONDITIONS
- P-4 ENLARGED PLAN EXISTING PROJECT AREAL RELEASE LAND
- P-5 ENLARGED PLAN PROPOSED PLAN
- P-6 DREDGE CROSS SECTIONS
- P-7 DREDGE CROSS SECTIONS
- P-8 SECTIONS AND DETAILS

These drawings were prepared to be used at 11 x 17 format. If used on a smaller or larger format they will be out of scale.

For Permit application submittal purposes they have been issued 8.5 x 11.

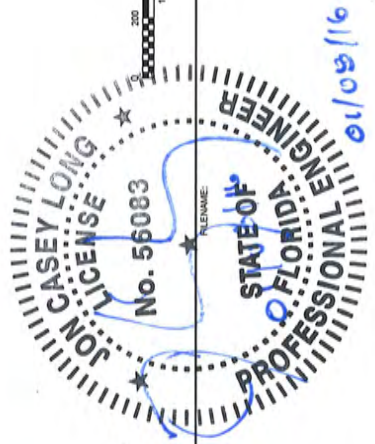
PERMIT SET
DECEMBER 2015



PERMIT BERTH 1 IMPROVEMENTS PORT OF PALM BEACH RIVIERA BEACH, FLORIDA E8 0000077 AA 00192 3001 PMA BLD - SUITE 300 P.O. BOX 100000 PALM BEACH, FLORIDA 33415 PH (561) 984-7400 FAX (561) 984-7401		BERTH 1 IMPROVEMENTS COVER SHEET AND INDEX OF DRAWINGS BERTH 1	AS SHOWN VERIFY SCALE DATE: DEC 2015 NO. 1 SHEET 1 OF 8 PLOT TIME: 3:07:01 PM
REVISION NO. DATE 1 11/11/15 2 11/11/15 3 11/11/15 4 11/11/15 5 11/11/15 6 11/11/15 7 11/11/15 8 11/11/15 9 11/11/15 10 11/11/15	CHECKED BY APPROVED BY DATE	DESIGNER DATE	DATE NO. SHEET

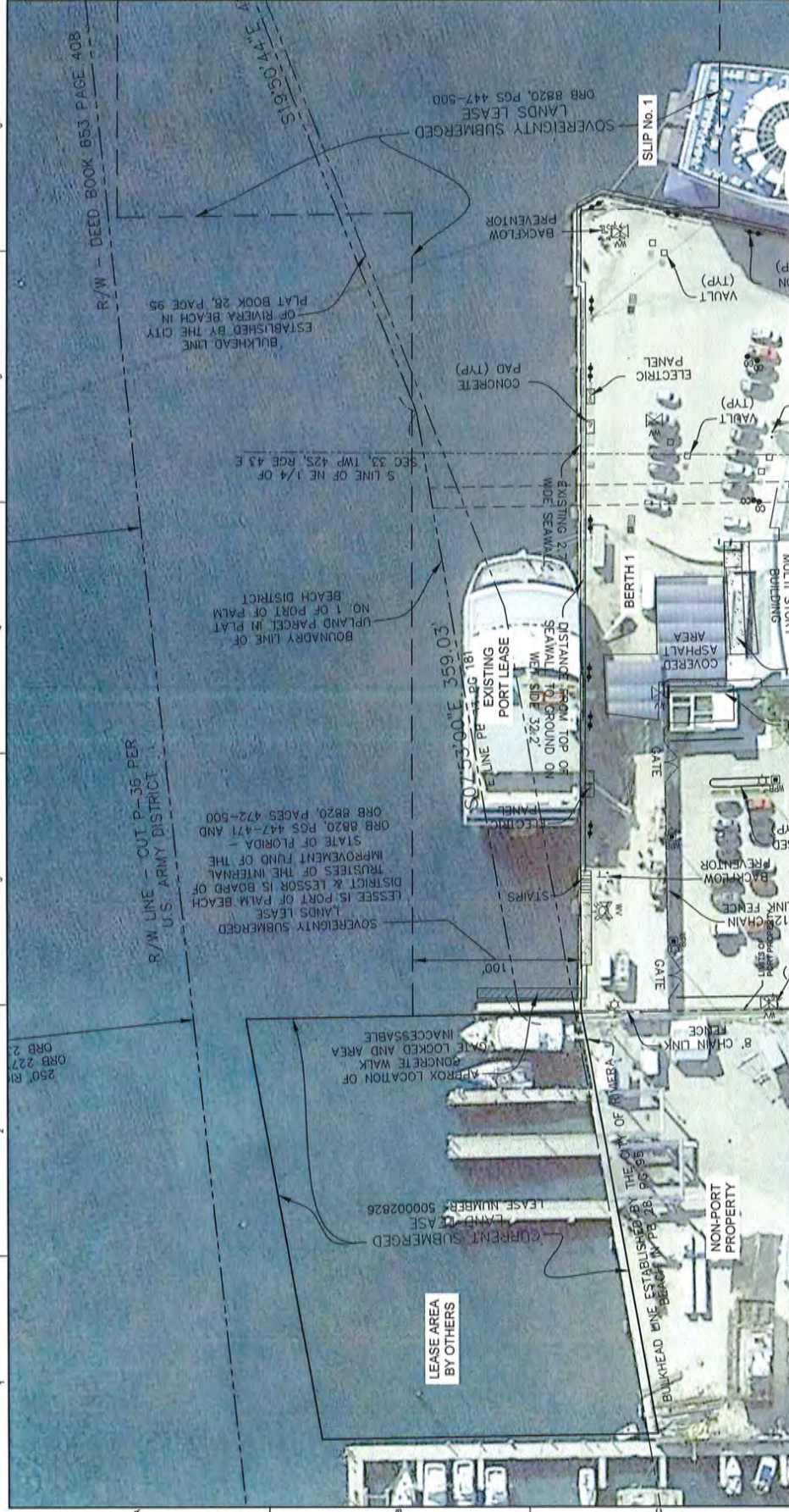
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ch2m PERMIT BERTH 1 EXISTING PORT SITE PLAN EXISTING CONDITIONS		BERTH 1 IMPROVEMENTS PORT OF PALM BEACH PALM BEACH, FLORIDA EIR 00000772 AA 001992 3001 POMA BLVD., SUITE 300 PALM BEACH, FLORIDA 33480 PH (561) 994-4000 FAX (561) 994-4001
AS SHOWN VERIFY SCALE ORIGINAL DRAWING	DATE: 08/20/19 DESIGNED BY: JCL/MS DRAWN BY: JCL/MS CHECKED BY: JCL/MS SCALE: 1"=200' SHEET: 2 OF 8 PLOT TIME: 8:10:19 AM	NO. DATE DSON JCL/MS DR V GARRICK L CANNON J CASEY LONG APPROVED BY: JCL/MS REVISION:



EXISTING PORT SITE PLAN (EXISTING CONDITIONS)
 1"=200'

These drawings were prepared to be used at 11 x 17 format. If used on a smaller or larger format they will be out of scale.
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3001 PALM BLVD., SUITE 300 PALM BEACH, FLORIDA 33480 PH (561) 954-7400 FAX (561) 954-7010 EB 0000072 AA 001992	
BERTH 1 IMPROVEMENTS PORT OF PALM BEACH RIVERA BEACH, FLORIDA	
NO. DATE 10100	REVISION 10100
DESIGNED BY CHECKED BY DRAWN BY DATE	APPROVED BY DATE

GENERAL SHEET NOTES

- GENERAL SHEET NOTES APPLY ONLY TO THE SHEET ON WHICH THEY APPEAR.
- A HEXAGON WILL BE USED TO DENOTE SHEET RETIQUES.

SHEET KEYNOTES

- SHEET KEYNOTES APPLY TO SPECIFIC DRAWING ELEMENTS ON THE SHEET THEY ARE LOCATED.
- A HEXAGON WILL BE USED TO DENOTE SHEET RETIQUES.

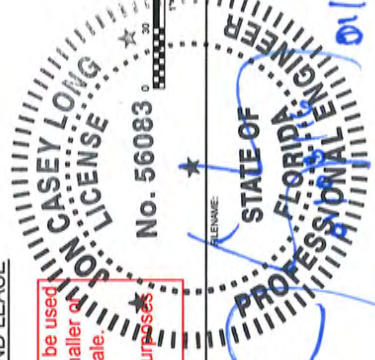
ENLARGED EXISTING PROJECT AREA/LAND LEASE

These drawings were prepared to be used at 11 x 17 format. If used on a smaller or larger format they will be out of scale.

For Permit application submittal purposes they have been issued 8.5 x 11.

DATE: 08/08/16
 PROJECT: PORT OF PALM BEACH
 SHEET: 3 of 3

PLOT DATE: 08/08/16
 PLOT TIME: 09:00 AM



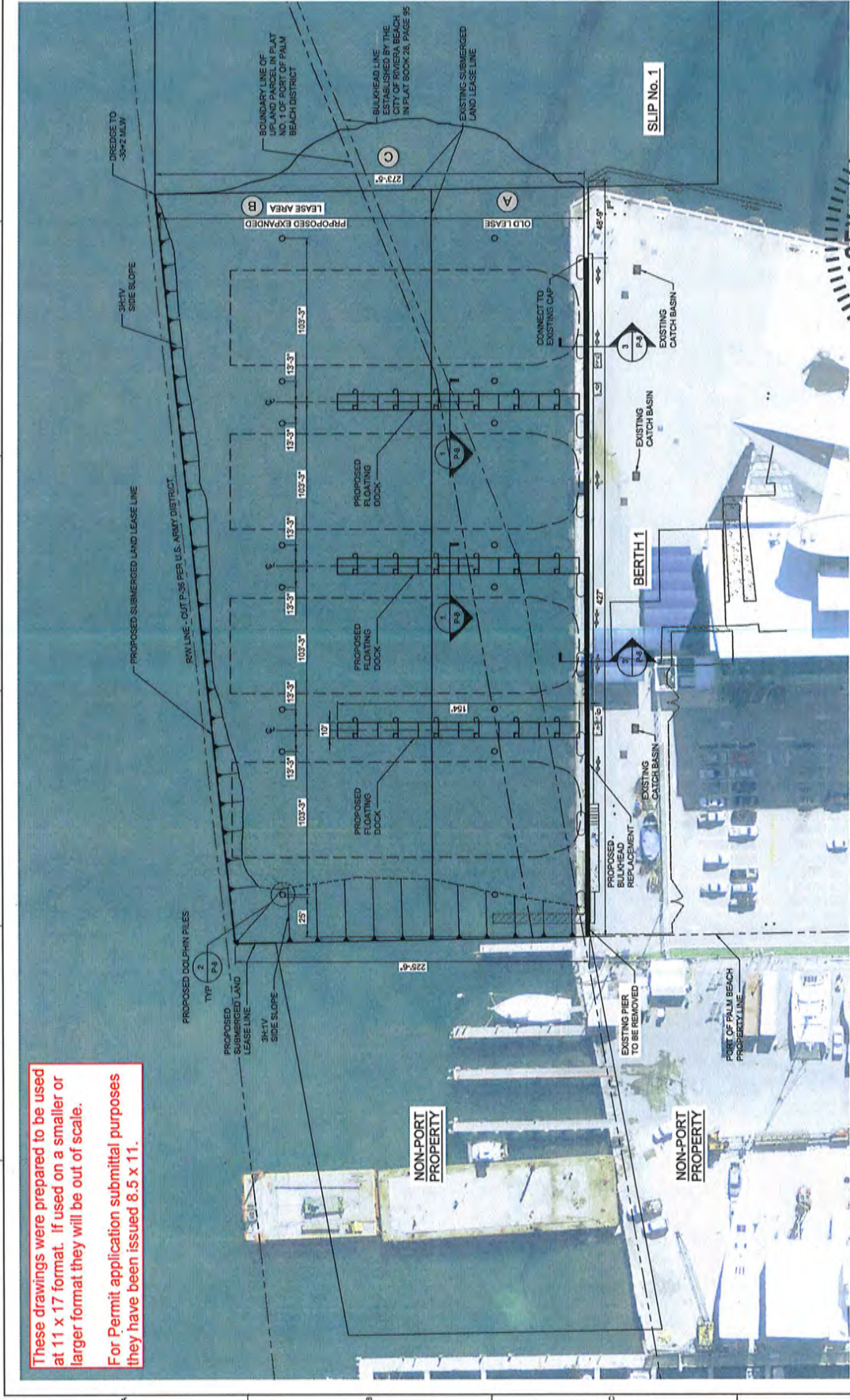
R/W LINE - DEED BOOK 653 PAGE 408
 R/W LINE - CUT P-36 PER U.S. ARMY DISTRICT
 SO 753'00" E 359.03'
 5 LINE OF NE 1/4 OF SEC 33, TWP 42S, RGE 43 E
 DISTANCE FROM TOP OF SEAWALL TO GROUND ON WIDE SIDE 39.2'
 FROM EXISTING PORT LEASE TO EXISTING PORT LEASE 181'
 APPROX LOCATION OF GATE LOCKED AND AREA INACCESSIBLE
 GATE LOCKED AND AREA INACCESSIBLE
 CONCRETE WALK
 LEASE AREA BY OTHERS
 CURRENT SUBMERGED LAND CASE LEASE NUMBER: 500002826
 BULKHEAD WINE ESTABLISHED BY THE CITY OF PALM BEACH IN PLAT 28, PGS 95
 NON-PORT PROPERTY
 8' CHAIN LINK FENCE
 BACKFLOW PREVENTOR
 LINK FENCE
 12' CHAIN LINK FENCE
 GATE
 GATE
 COVERED ASPHALT AREA
 VAULT (TYP)
 VAULT (TYP)
 ELECTRIC PANEL
 CONCRETE PAD (TYP)
 BACKFLOW PREVENTOR
 SLIP No. 1
 SOVEREIGNTY SUBMERGED LANDS LEASE ORB 8820, PGS 447-500
 DISTRICT & LESSOR IS BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA - ORB 8820, PAGES 472-500
 LESSOR IS PORT OF PALM BEACH LANDS LEASE
 BULKHEAD WINE ESTABLISHED BY THE CITY OF RIVERA BEACH IN PLAT 28, PAGE 95
 BULKHEAD LINE OF RIVERA BEACH IN PLAT 28, PAGE 95
 SOVEREIGNTY SUBMERGED LANDS LEASE ORB 8820, PGS 447-500

PERMIT
 ENLARGED PLAN
 EXISTING PROJECT AREA
 LEASE LAND
 CH2M

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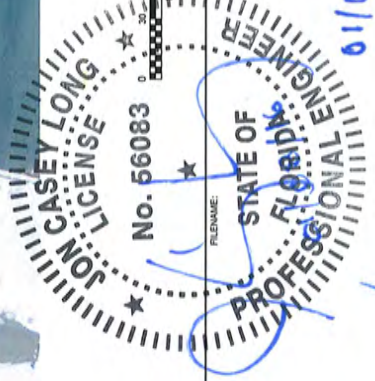
For Permit application submittal purposes they have been issued 8.5 x 11.



PROJECT DATA

EXISTING BERTH 1 SUBMERGED LEASE - AREA A	46,039 SF	FLOATING DOCK AREA -	1,540 SF EACH
EXPANDED BERTH 1 SUBMERGED LEASE - AREA B	71,168 SF	PILES PER DOCK -	13 PILES
TOTAL BERTH SUBMERGED AREA A + B	117,206 SF	PROJECT FENDER DOLPHIN PILES -	16 PILES
TOTAL DREDGE AREA A + B + C	123,506 SF	PILES FOR PROJECT -	55 PILES

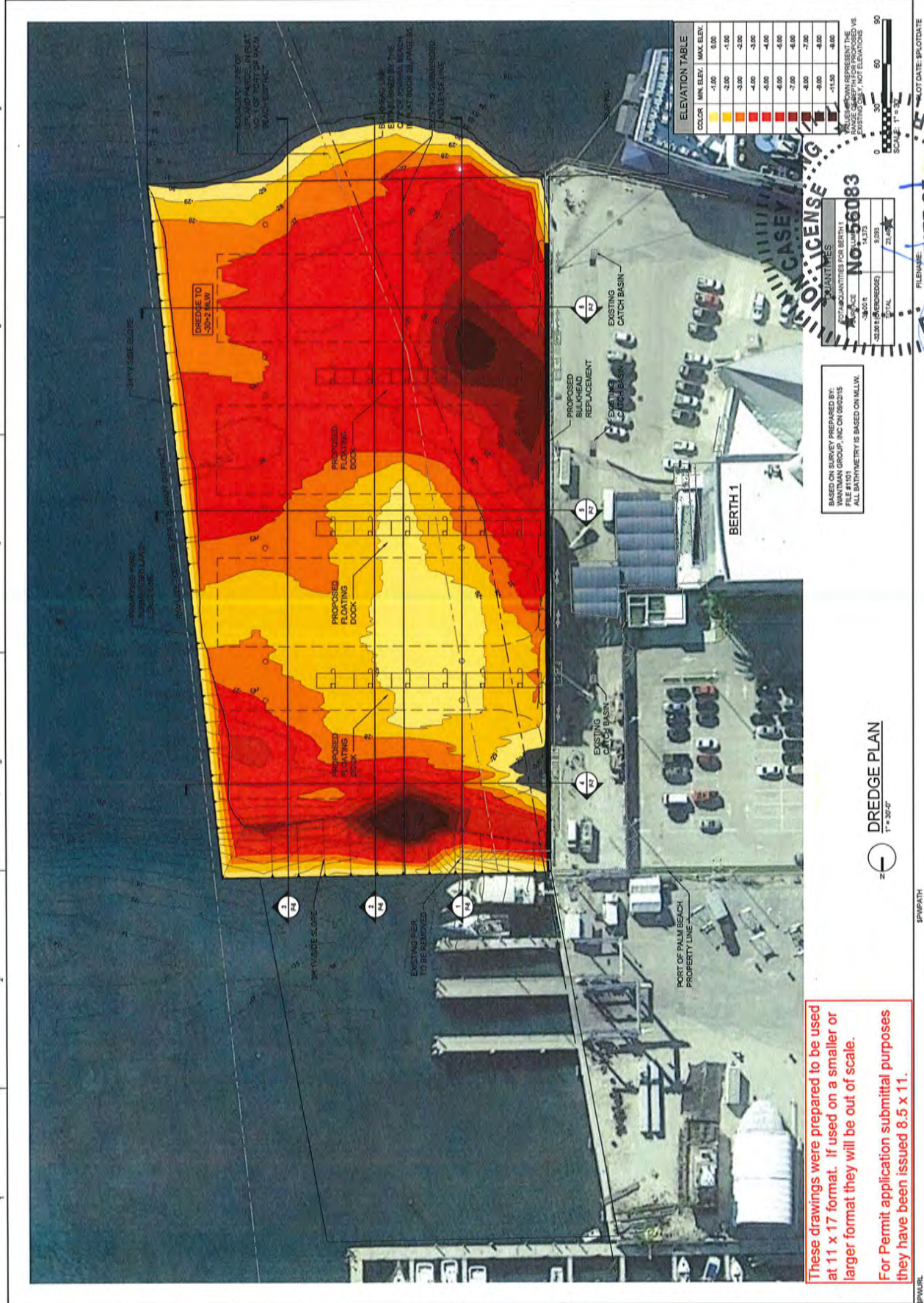
ENLARGED PROPOSED PLAN
1" = 30'-0"



FILENAME: SPWPATH
PLOT DATE: 06/01/2016
PLOT TIME: 09:07:00

CH2M PERMIT BERTH 1 ENLARGED PROPOSED PLAN		AS SHOWN VERIFY SCALE 1" = 30'-0" 1/8" = 1'-0" 1/4" = 3'-0" 1/2" = 6'-0" 3/4" = 9'-0" 1" = 12'-0" DATE: DEC 2015 PROJ: 150100000 SHEET: 4 of 4
BERTH 1 IMPROVEMENTS PORT OF PALM BEACH RIVIERA BEACH, FLORIDA EB 00000772 AA 001992 3001 PDA BLD - SUITE 300 614 N.W. 11th St. #300 Ft. Lauderdale, FL 33304		NO. DATE REVISION BY APD DATE NO. DATE REVISION BY APD
REVISIONS V. GARRICK L. CANNON J. LOVAD J. LOVAD		3001 PDA BLD - SUITE 300 614 N.W. 11th St. #300 Ft. Lauderdale, FL 33304 EB 00000772 AA 001992 BERTH 1 IMPROVEMENTS PORT OF PALM BEACH RIVIERA BEACH, FLORIDA

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ELEVATION TABLE

COLOR	MIN. ELEV.	MAX. ELEV.
Yellow	-1.00	0.00
Orange	-2.00	-1.00
Red-Orange	-3.00	-2.00
Red	-4.00	-3.00
Dark Red	-5.00	-4.00
Dark Red-Black	-6.00	-5.00
Black	-7.00	-6.00
Black	-8.00	-7.00
Black	-9.00	-8.00
Black	-10.00	-9.00
Black	-11.50	-10.00

VALUES WHICH REPRESENT THE BATHYMETRY ARE BASED ON THE BATHYMETRY DATA PROVIDED BY THE CLIENT. ALL BATHYMETRY IS BASED ON MLLW.

SCALE: 1" = 30'-0"

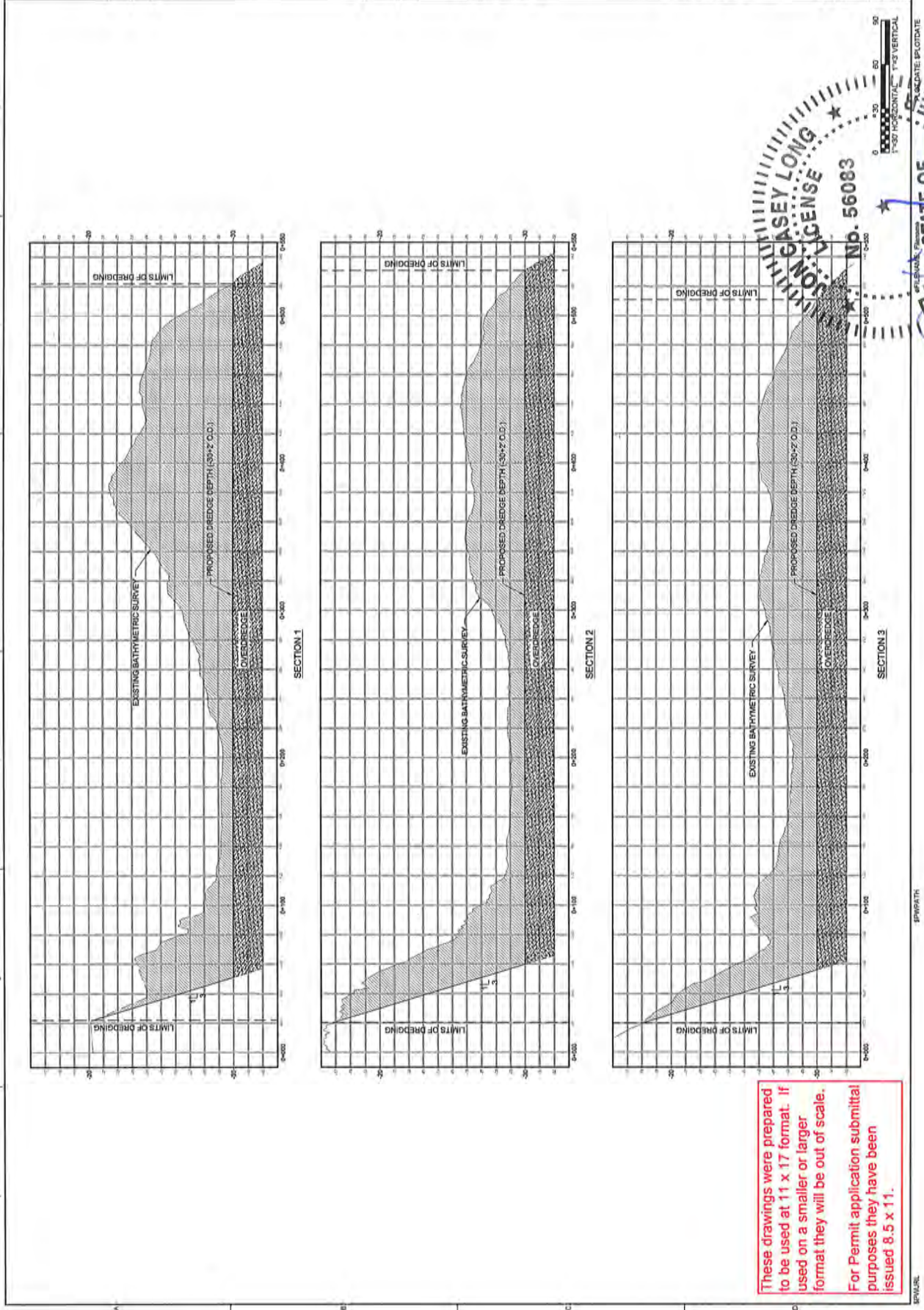
QUANTITIES FOR BERTH 1:
 APPROXIMATE QUANTITIES FOR BERTH 1: 4,375
 APPROXIMATE QUANTITIES FOR BERTH 1: 4,375

STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 LICENSE NO. 566083
 DATE: 11/16/16

These drawings were prepared to be used at 11 x 17 format. If used on a smaller or larger format they will be out of scale. For Permit application submittal purposes they have been issued 8.5 x 11.

DREDGE PLAN
 1" = 30'-0"

CH2M PERMIT BERTH 1 DREDGE SECTIONS		2001 PDA BVD, DATE 300 PDA 1304-003, FAX 954-984-2671 PDA 1304-003, FAX 954-984-2671 EB 0000077, AA 001892
BERTH 1 IMPROVEMENTS PORT OF PALM BEACH RIVERA BEACH, FLORIDA		NO. DATE DSON JC CHM OR CHK E CHECK LAMON J CASEY LONG
REVISION BY DATE APVD		AS SHOWN VERIFY SCALE 1" = 100' 1" = 100' DATE DEC 2012 PROJ DWG SHEET P.A. 6 OF 8 PLOT TIME: 3P.07PM



CASEY LONG
 PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 No. 56083
 01/08/16

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CH2M PERMIT BERTH 1 DREDGE SECTIONS		BERTH 1 IMPROVEMENTS PORT OF PALM BEACH PALM BEACH, FLORIDA 18 0000072 2A 00192 3001 POMA BLVD. SUITE 300 PALM BEACH GARDENS, FL 33410 PH (561) 836-7600 FAX (561) 836-7071	
AS SHOWN	VERTICAL SCALE	DATE	DEC 2015
		SCALE	1"=30'
		DWG	7 of 8
		SHEET	7 of 8

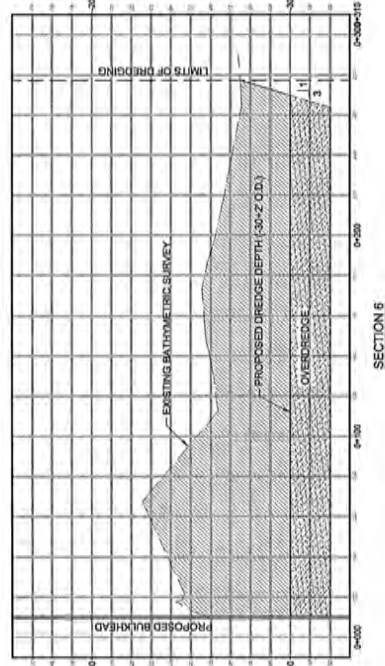
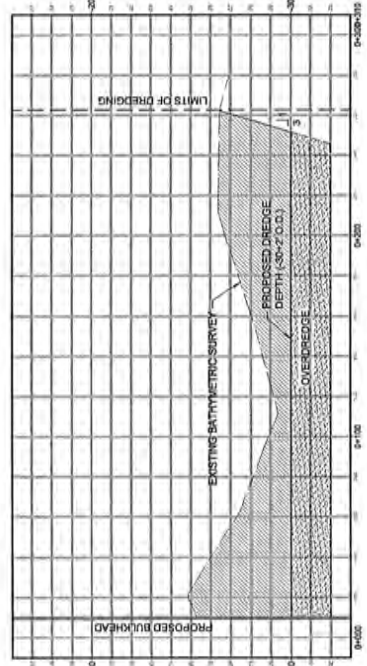
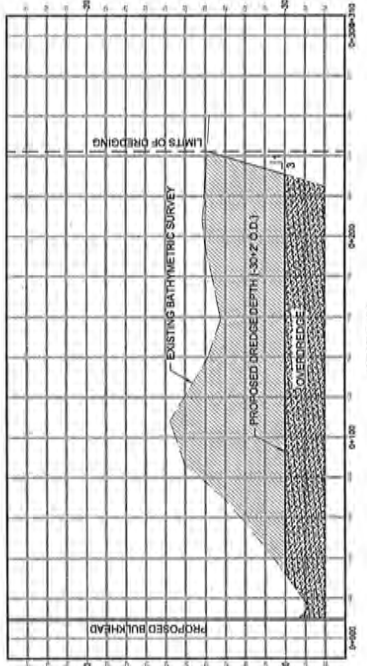
NO.	DATE	REVISION

DESIGN	JL LYNN
CHECK	CHIK
APPROVE	J. CASEY LYNN

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These drawings were prepared to be used at **CASE** only. If used on a smaller or larger project they will be out of scale.

For Permit application submittal purposes
 txt:Nov5606@csued.8.5 x 11



STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 License No. 11031

DATE: 01/08/16
 PROJECT: PORT OF PALM BEACH

Ch2m

PERMIT
BERTH 1
SECTIONS AND DETAILS

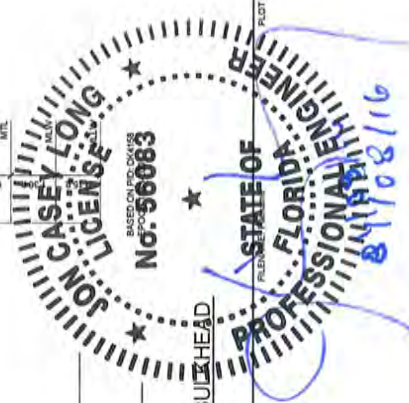
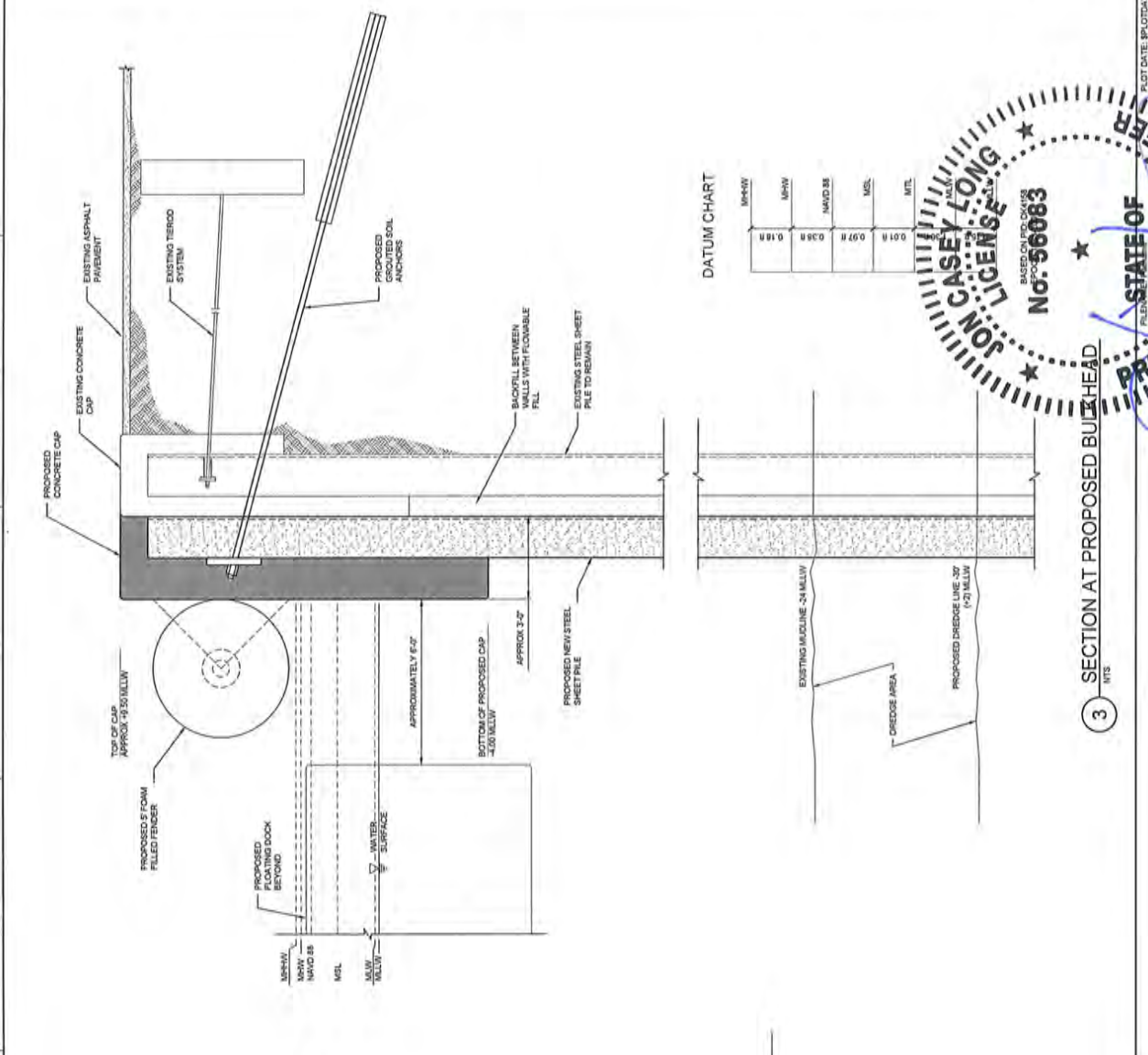
POINT OF PALM BEACH
RIVERA BEACH, FLORIDA

3001 KORN BLVD - SUITE 300
PALM BEACH GARDENS, FL 33410
TEL: (561) 841-7400 FAX: (561) 841-7401
EQ 0000772 AA 001992

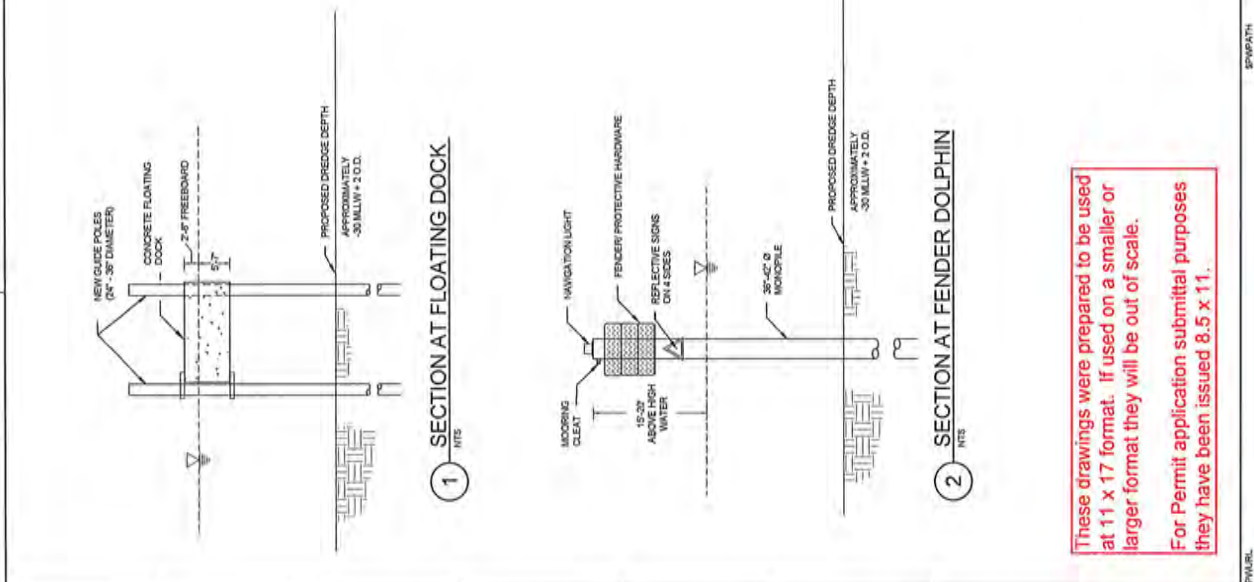
NO.	DATE	REVISION

DESIGN: J. LONG
CHECK: V. GINSHE
DATE: 11/11/08
APPROVED: J. CANNON

AS SHOWN
VERIFY SCALE
DATE: DEC 2018
PROJ: 08-0000000
DWG: 08-0000000
SHEET: 8 OF 8



3 SECTION AT PROPOSED BULKHEAD



These drawings were prepared to be used at 11 x 17 format. If used on a smaller or larger format they will be out of scale.

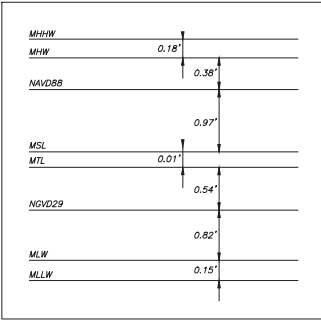
For Permit application submittal purposes they have been issued 8.5 x 11.

HYDROGRAPHIC SURVEY

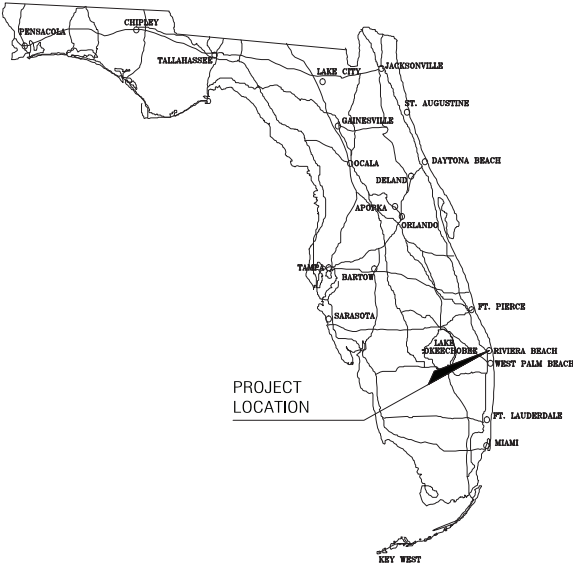
PORT OF PALM BEACH

RIVIERA BEACH, FLORIDA

Relationship of Tidal and Geodetic Datums



National Ocean Service (NOAA)
Tidal datum at Port of Palm Beach, Lake Worth
based on the 1983-2001 Tides Epoch
Control Tide Station 8722588 Port of West Palm Beach, Florida



FOR THE BENEFIT OF:

Port of Palm Beach District.
C/DM

SURVEYORS NOTES:

1. This is a Hydrographic Survey, as defined in Chapter 5J-17.050(10)(f)&(h) of the Florida Administrative Code.
2. The last date of field data acquisition was 9/02/15.
3. It should be noted that the limits of the Hydrographic survey work are arbitrary limits, and are not based upon any particular features, deed, easement, or other jurisdictional lines.
4. This survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida licensed surveyor and mapper.
5. Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
6. Copyright © 2015 by Wantman Group, Inc.
7. The horizontal relationships of measurements made during the course of this survey were conducted in US Survey Feet and are related to the Florida State Plane Coordinate System, East Zone, Transverse Mercator Projection, North American Datum 83, 2007 adjustment.
8. Vessel positioning (Horizontal and Vertical) was obtained by a Trimble Real-Time Kinematic Global Positioning System (RTK-GPS) using a base station at United States Army Corps of Engineers control point 'WOLFE 2010', with a published elevation of 5.02 feet, based on the North American Vertical Datum of 1988 (NAVD 88). Conversion to Mean Lower Low Water (MLLW) is based on the National Ocean Service Tide Datum at Port of West Palm Beach, Station 8722588, with a publication date of 12/01/2011.
9. Elevations as shown herein are in feet relative to Mean Lower Low Water and were obtained using an Adam Echotrac CV-100 single beam survey-grade echosounder.
10. Underground improvements or utilities were not located as part of this survey and should be field verified prior to any dredging and/or construction.
11. Geographical features such as roadways, shorelines and seawalls were not located during the course of the survey and are shown for graphical purposes.
12. The information depicted on this map represents the results of the survey on the date indicated and can only be considered as indicating the general condition existing at that time.
13. Aerial Imagery shown herein was provided by LUBINS (Land Boundary Information System) and is shown for informational purposes. The imagery was flown in 2011.
14. Elevations on sheet 2 shown in red are above -24 feet deep, elevations shown in green are below -24 feet deep.
15. Jurisdictional lines were provided by client and not part of this survey.

INDEX OF SHEETS:

Sheet 1	Cover
Sheet 2	Elevations in 10' x 10' Grid
Sheet 3	Topographic Drawing of Bottom of Channel

LEGEND:

EL	= Elevation
LB	= Licensed Surveying Business
MLW	= Mean Low Water
MLLW	= Mean Lower Low Water
MHW	= Mean High Water
MHHW	= Mean Higher High Water
MSL	= Mean Sea Level
MTL	= Mean Tide Level
NGVD29	= National Geodetic Vertical Datum of 1929
NAD	= North American Datum
NAVD88	= North American Vertical Datum of 1988
PI#	= Point Identification Number
NGS	= National Geodetic Survey
VM#	= Vertical Mark Number

LOCATION MAP
(NOT TO SCALE)



SOUNDINGS ARE IN FEET RELATIVE
TO THE LOCAL MEAN LOWER LOW WATER (MLLW) DATUM

For the Firm:
Wantman Group, Inc.

Derek G. Zeman

DATE: 1/08/16

DEREK G. ZEMAN
Professional Surveyor and Mapper
State of Florida License No. 5655

Wantman Group, Inc.
 Engineering ♦ Planning ♦ Surveying ♦ Environmental
 2035 WEST PALM BLVD., SUITE 100, WEST PALM BEACH, FL 33411
 TEL: 561-853-1100 FAX: 561-853-1101
 WWW.WANTMANGROUP.COM

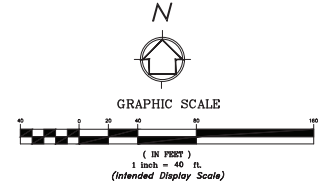
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JOB	DATE 9/02/2015
DWG	DWG 1101-42HYDR02
SHEET 1 OF 3	
CDD	CDD DDCZ
OFF	OFF RBT
FIELD	
SCALE	
DATE	
REVISIONS:	
DATE	
BY:	

HYDROGRAPHIC SURVEY
PORT OF PALM BEACH
 Riviera Beach, Florida
 PREPARED FOR
PORT OF PALM BEACH DISTRICT



SKETCH OF SURVEY

SOUNDINGS ARE IN FEET RELATIVE TO THE LOCAL MEAN LOWER LOW WATER (MLLW) DATUM

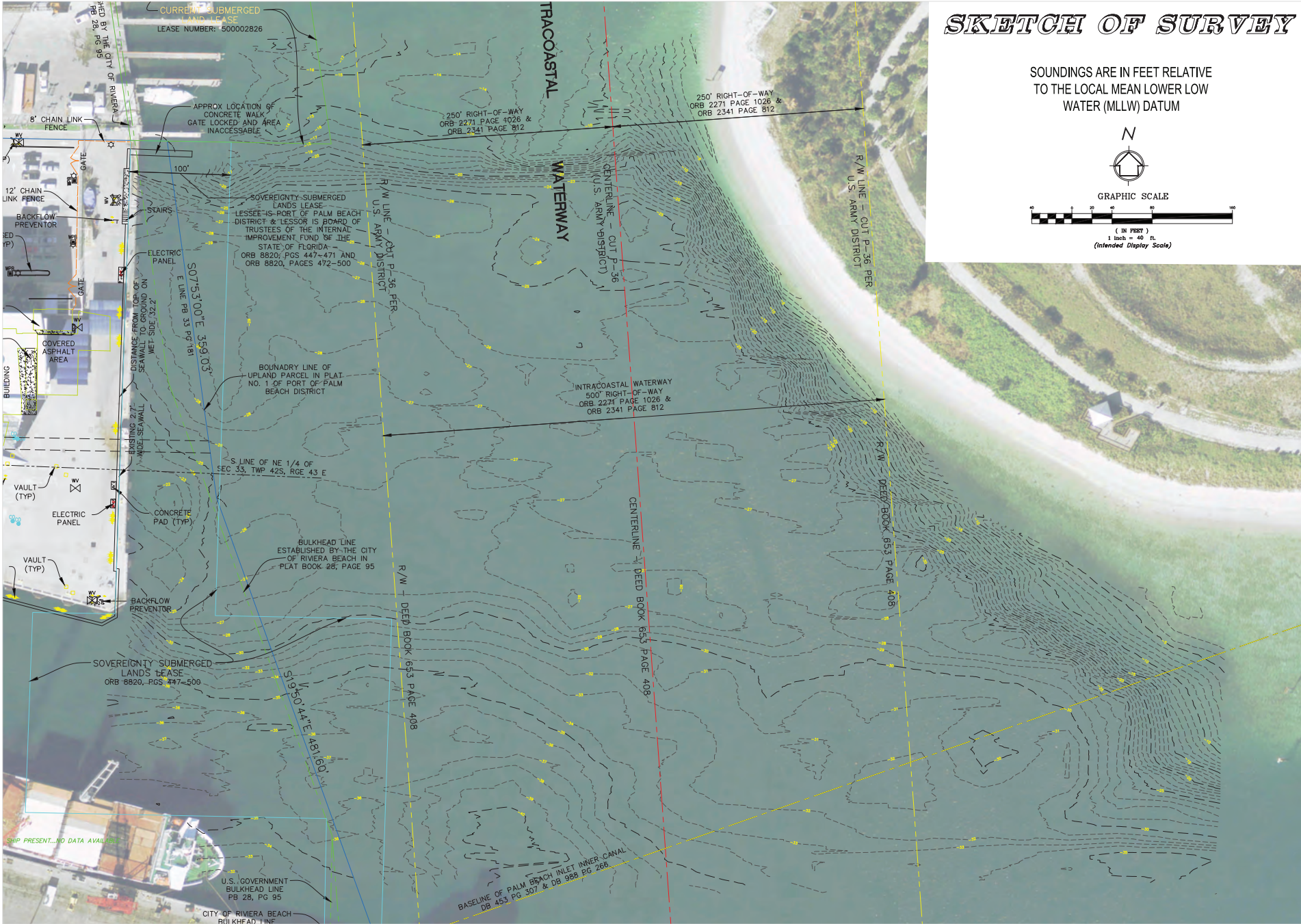


Wantman Group, Inc.
 Engineering • Planning • Surveying • Environmental
 8038 WSW 15th Avenue, Suite 100, West Palm Beach, FL 33411
 Telephone: 561.833.1111
 Fax: 561.833.1112
 www.wantmangroup.com

CAD REF	HW\1101-42\FPB Birth 1 Hydro\1101-42\FPB02 - Standard\1	DATE	9/02/2015
JOB		DWG	1101-42\FPB02
OFF	FPB	SHEET	2 OF 3
CMD	002	REVISED:	
DATE:		BY:	

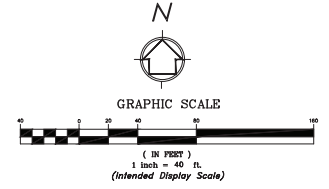
HYDROGRAPHIC SURVEY
PORT OF PALM BEACH
 RIVERA BEACH, FLORIDA
 AS PREPARED FOR
PORT OF PALM BEACH DISTRICT

HW\1101-42\FPB Birth 1 Hydro\1101-42\FPB02 - Standard\1101-42\FPB02.dwg SH 2 Jun 04, 2016



SKETCH OF SURVEY

SOUNDINGS ARE IN FEET RELATIVE TO THE LOCAL MEAN LOWER LOW WATER (MLLW) DATUM



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 Engineering • Planning • Surveying • Environmental
 8030 WSW 10th Avenue, Suite 100, West Palm Beach, FL 33411
 Telephone: 561.833.1111
 Fax: 561.833.1112
 www.wantmangroup.com



CAD	W1101.42 PFB Birth 1 Hydro\1101.42\H2R02 - Standard\1	DATE	9/02/2015	DWG	1101.42\H2R02
REF		JOB			
FLD		FILE/PC			
DTF		DATE	9/02/2015		
CHD		DATE			
		SHEET	3 OF		
		REVISIONS:			
		DATE:			
		BY:			

HYDROGRAPHIC SURVEY
PORT OF PALM BEACH
 RIVIERA BEACH, FLORIDA
 AS PREPARED FOR
PORT OF PALM BEACH DISTRICT

W1101.42 PFB Birth 1 Hydro\1101.42\H2R02 - Standard\1101.42\H2R02.dwg SH 3 Jun 04 2016