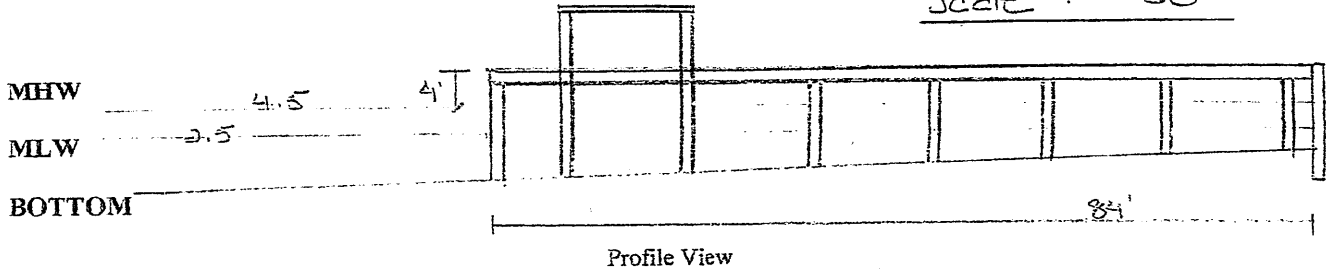


**PRIVATE DOCK**

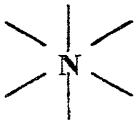
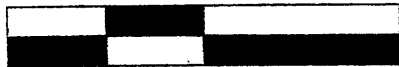
Application # \_\_\_\_\_  
(OFFICIAL USE ONLY)

Scale 1" = 20'



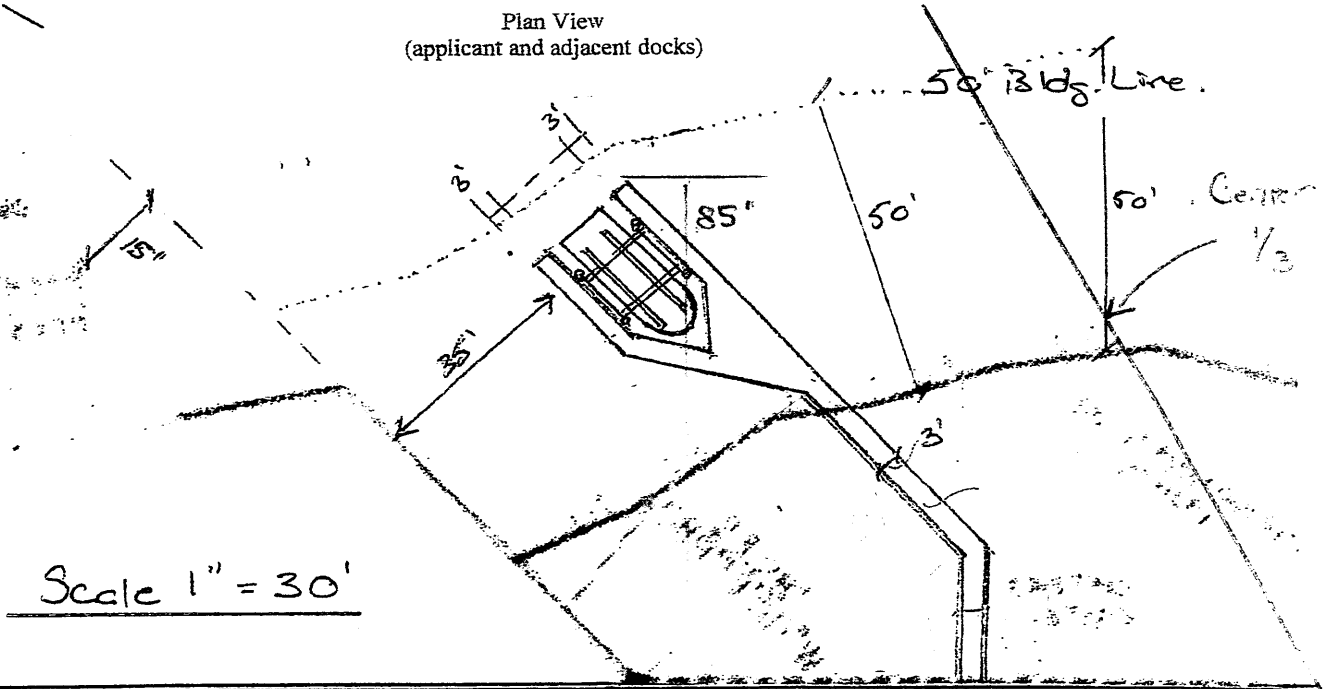
Profile View

ENG. SCALE: 1" = 30'



TOTAL SQUARE FEET 500  
NEW SQUARE FEET 500  
WATERWAY WIDTH 309.99  
WATERFRONT WIDTH 321.99

Plan View  
(applicant and adjacent docks)



Scale 1" = 30'

**SHORELINE**

The undersigned does not object to the proposed dock and requested variances as drawn in the space provided above.

Left Owner		Right Owner	
Signature	Date	Signature	Date 10/6/16
Municipality Approval		Water and Navigation Approval	

BENCHMARK & DATUM ELEVATIONS  
TIDE STATION NUMBER: 872-6706  
DATE: 02-17-2011

STA. NAME	BENCH MARK ELEVATIONS			
	NGVD 29 FEET	NGVD 29 METERS	NAVD 88 FEET	NAVD 88 METERS
TBM NO 2 1949	+4.06	+1.236	+3.19	+0.973
HARRIS O	+24.61	+7.500	+23.74	+7.237
6706 A 2009	+4.99	+1.522	+4.13	+1.259
HARRIS S	+36.17	+11.026	+35.31	+10.763
HARRIS R	+32.67	+9.957	+31.80	+9.694

DATE:02-15-2011  
TIDE STATION NUMBER: 872-6706  
TIDE STATION NAME: CLEARWATER, FLORIDA - CLEARWATER HARBOR  
TIDAL EPOCH: 1983-2001

ELEV OF TIDAL DATUMS BASED ON 1929 & 1988 DATUMS

TIDAL DATUM	NGVD 29 FEET	NGVD 29 METERS	NAVD 88 FEET	NAVD 88 METERS
MHHW	+1.85	+0.564	+0.99	+0.301
MHW	+1.50	+0.458	+0.64	+0.195
MSL	+0.57	+0.173	-0.30	-0.090
MTL	+0.56	+0.170	-0.31	-0.093
MLW	-0.39	-0.118	-1.25	-0.381
MLLW	-0.89	-0.272	-1.76	-0.535

MR =            1.89 29/ft            0.576 29/m            1.89 88/ft            0.576 88/m

<b>STATION ID:</b> 8726706	<b>PUBLICATION DATE:</b> 04/29/2004
<b>NAME:</b> CLEARWATER, CLEARWATER HARBOR	<b>REVISION:</b> 07/01/2011
FLORIDA	<b>SENT TO NOS:</b> 07/01/2011
<b>NOAA CHART:</b> 11410	<b>LATITUDE:</b> 27° 57.3' N
<b>USGS QUAD:</b> CLEARWATER	<b>LONGITUDE:</b> 82° 48.4' W

To reach the tidal bench marks from the intersection of U.S. Alternate Highway 19 (Fort Harrison Avenue) and State Road 697 (Bellview Avenue), proceed west on Bellview Avenue for 0.6 km (0.4 mi) to Druid Road South, then north on Druid Road South for 1.3 km (0.8 mi) to Magnolia Road, then west on Magnolia Road to its end. The bench marks are along Magnolia Road and Druid Road South. The tide gage and staff were on the pier at the end of Magnolia Road.

## T I D A L B E N C H M A R K S

<b>PRIMARY BENCH MARK STAMPING:</b>	<b>TBM NO 2 1949</b>
DESIGNATION:	872 6706 2

MONUMENTATION:	Reference Mark Disk	VM#: 6786
AGENCY:	U.S. Coast & Geodetic Survey (USC&GS)	PID#: <a href="#">AG0998</a>
SETTING CLASSIFICATION:	Concrete Curb	
HORIZONTAL DATUM:	NAD 1983 (GPS Hand-held)	
LATTITUDE/LONGITUDE:	N275720.2/W0824821.7	
MAGNETISM:	NO	
FIELD VISIT DATE:	2009	

The primary bench mark is a disk set on a concrete sea wall at the foot of the west end of Magnolia Road, 6.98 m (22.9 ft) south of the south hand rail of the walkway to the Harbor Oaks Pier, 8.84 m (29.0 ft) south of the extended centerline of Magnolia Road, and 6.10 m (20.0 ft) ESE of power line pole #6A-11314, and 0.49 m (1.6 ft) north of the concrete wall.

<b>STATION ID:</b> 8726706	<b>PUBLICATION DATE:</b> 04/29/2004
<b>NAME:</b> CLEARWATER, CLEARWATER HARBOR	<b>REVISION:</b> 07/01/2011
FLORIDA	<b>SENT TO NOS:</b> 07/01/2011
<b>NOAA CHART:</b> 11410	<b>LATITUDE:</b> 27° 57.3' N
<b>USGS QUAD:</b> CLEARWATER	<b>LONGITUDE:</b> 82° 48.4' W

T I D A L B E N C H M A R K S

<b>BENCH MARK STAMPING:</b>	<b>HARRIS O</b>
DESIGNATION:	HARRIS O

MONUMENTATION:	Survey Disk	VM#:	6789
AGENCY:	Pinellas County	PID#:	<a href="#">AG0586</a>
SETTING CLASSIFICATION:	Concrete Monument		
HORIZONTAL DATUM:	NAD 1983 (GPS Hand-held)		
LATTITUDE/LONGITUDE:	N275716.32/W0824818.2		
MAGNETISM:	NO		
FIELD VISIT DATE:	2009		

The bench mark is a disk set in the top of a concrete monument, 1 block south of bench mark NO 5 1975, 10.36 m (34.0 ft) south of the centerline of Lotus Path, 4.24 m (13.9 ft) west of the centerline of Druid Road, and 0.79 m (2.6 ft) WSW of a witness post.

<b>BENCH MARK STAMPING:</b>	<b>6706 A 2009</b>
DESIGNATION:	872 6706 A

MONUMENTATION:	Flange Encased Rod	VM#:	
AGENCY:	National Geodetic Survey (NGS)	PID#:	<a href="#">DM3614</a>
SETTING CLASSIFICATION:	Stainless Steel Rod		
HORIZONTAL DATUM:	NAD 1983 (GPS hand-held)		
LATTITUDE/LONGITUDE:	N275713.3/W0824823.7		
MAGNETISM:	Steel Rod		
FIELD VISIT DATE:	2009		

To reach the mark from the intersection of Alternate 19 (South Fort Harrison) and Jeffords in Clearwater, go west on Jeffords Street for 0.5 km (0.3 mi) to the dead end turn-around and the mark, a stainless steel rod driven to refusal at a depth of 3.6 m (11.8 ft) with a National Geodetic Survey logo cap recessed 6 cm (0.2 ft) below the level of the ground and 15 cm (0.5 ft) below the level of the Jeffords Street, the datum point is recessed 24 cm (0.8 ft) below the level of the National Geodetic Survey logo cap.

Located 19.8 m (64.8 ft) north of the southwest corner of the seawall, 8.6 m (28.2 ft) south-southwest of a 3.0 m (10.0 ft) tall concrete street light, 2.3 m (7.5 ft) south of the extended centerline of Jeffords Street, 0.7 m (2.3 ft) east of the east edge of the seawall and 0.5 m (1.8 ft) east of a carsonite witness post.

<b>STATION ID:</b> 8726706	<b>PUBLICATION DATE:</b> 04/29/2004
<b>NAME:</b> CLEARWATER, CLEARWATER HARBOR	<b>REVISION:</b> 07/01/2011
FLORIDA	<b>SENT TO NOS:</b> 07/01/2011
<b>NOAA CHART:</b> 11410	<b>LATITUDE:</b> 27° 57.3' N
<b>USGS QUAD:</b> CLEARWATER	<b>LONGITUDE:</b> 82° 48.4' W

T I D A L B E N C H M A R K S

<b>BENCH MARK STAMPING:</b>	<b>HARRIS S</b>
DESIGNATION:	HARRIS S

MONUMENTATION:	Survey Disk	VM#:
AGENCY:	Pinellas County	PID#: <a href="#">AG0589</a>
SETTING CLASSIFICATION:	Concrete Monument	
HORIZONTAL DATUM:	NAD 1983 (GPS handheld)	
LATTITUDE/LONGITUDE:	N275655.63/W0824820.91	
MAGNETISM:	NO	
FIELD VISIT DATE:	2009	

To reach the station from the intersection of U.S. Alt. 19 (South Fort Harrison Ave.) and S.R. 697 (Bellview Ave.), run westerly on Bellview Ave. for 0.64 km (0.4 mi) to the intersection of Druid Rd. South. Turn right on Druid Road South and run northerly for 0.48 km (0.3 mi). Station is on left, 4.8 m (16.0 ft.) west of the centerline of Druid Rd., 10.9 m (36.0 ft.) W/NW of power pole, no number, 9.4 m (31.0 ft.) south of the light pole, no number, 5.8 m (19.0 ft.) E/SE of a 15 inch pine tree, 1.03 m (3.4 ft.) east of the back of curb. Set in top of a concrete post that is flush with the ground.

<b>BENCH MARK STAMPING:</b>	<b>HARRIS R</b>
DESIGNATION:	HARRIS R

MONUMENTATION:	Survey Disk	VM#:
AGENCY:	Pinellas County	PID#: <a href="#">AG0588</a>
SETTING CLASSIFICATION:	Concrete Monument	
HORIZONTAL DATUM:	NAD 1983 (GPS hand-held)	
LATTITUDE/LONGITUDE:	N275705.92/W0824819.6	
MAGNETISM:	NO	
FIELD VISIT DATE:	2008	

To reach the station from the intersection of U.S. Alt. 19 (South Fort Harrison Ave.) and S.R. 697 (Bellview Ave.), run westerly on Bellview Ave. for 0.64 km (0.4 mi) to the intersection of Druid Rd. South, turn right on Druid Rd. South and run northerly for 0.5 mile. Station on left, 6.13 m (20.1 ft) west of the centerline of Druid Rd., 2.44 m (8.0 ft) north of the extended centerline of Ricker Rd., 2.44 m (8.0 ft) north of a 10 inch palm tree, 5.30 m (17.4 ft) south of the south edge of a concrete driveway, 2.22 m (7.3 ft) west of the back of curb. Set in top of a concrete post that is flush with the ground.

<b>STATION ID:</b> 8726706	<b>PUBLICATION DATE:</b> 04/29/2004
<b>NAME:</b> CLEARWATER, CLEARWATER HARBOR	<b>REVISION:</b> 07/01/2011
FLORIDA	<b>SENT TO NOS:</b> 07/01/2011
<b>NOAA CHART:</b> 11410	<b>LATITUDE:</b> 27° 57.3' N
<b>USGS QUAD:</b> CLEARWATER	<b>LONGITUDE:</b> 82° 48.4' W

T I D A L D A T U M S

Tidal datums at CLEARWATER, CLEARWATER HARBOR based on:

LENGTH OF SERIES: 11 MONTHS  
 TIME PERIOD: NOVEMBER 1975-September 1976  
 TIDAL EPOCH: 1983-2001  
 CONTROL TIDE STATION: 8726724 CLEARWATER BEACH, GULF OF MEXICO

Elevations of tidal datums referred to Mean Lower Low Water (MLLW), in METERS:

MEAN HIGHER HIGH WATER (MHHW)	=	0.836
MEAN HIGH WATER (MHW)	=	0.730
NORTH AMERICAN VERTICAL DATUM-1988 (NAVD)	=	0.535
MEAN SEA LEVEL (MSL)	=	0.445
MEAN TIDE LEVEL (MTL)	=	0.442
MEAN LOW WATER (MLW)	=	0.154
MEAN LOWER LOW WATER (MLLW)	=	0.000

Bench Mark Elevation Information In METERS above:

Stamping or Designation	MLLW	MHW
TBM NO 2 1949	1.508	0.778
HARRIS O	7.772	7.042
6706 A 2009	1.794	1.064
HARRIS S	11.298	10.568
HARRIS R	10.229	9.499

<b>STATION ID:</b> 8726706	<b>PUBLICATION DATE:</b> 04/29/2004
<b>NAME:</b> CLEARWATER, CLEARWATER HARBOR	<b>REVISION:</b> 07/01/2011
FLORIDA	<b>SENT TO NOS:</b> 07/01/2011
<b>NOAA CHART:</b> 11410	<b>LATITUDE:</b> 27° 57.3' N
<b>USGS QUAD:</b> CLEARWATER	<b>LONGITUDE:</b> 82° 48.4' W

#### D E F I N I T I O N S

Mean Sea Level (MSL) is a tidal datum determined over a 19-year National Tidal Datum Epoch. It pertains to local mean sea level and should not be confused with the fixed datums of North American Vertical Datum of 1988 (NAVD 88).

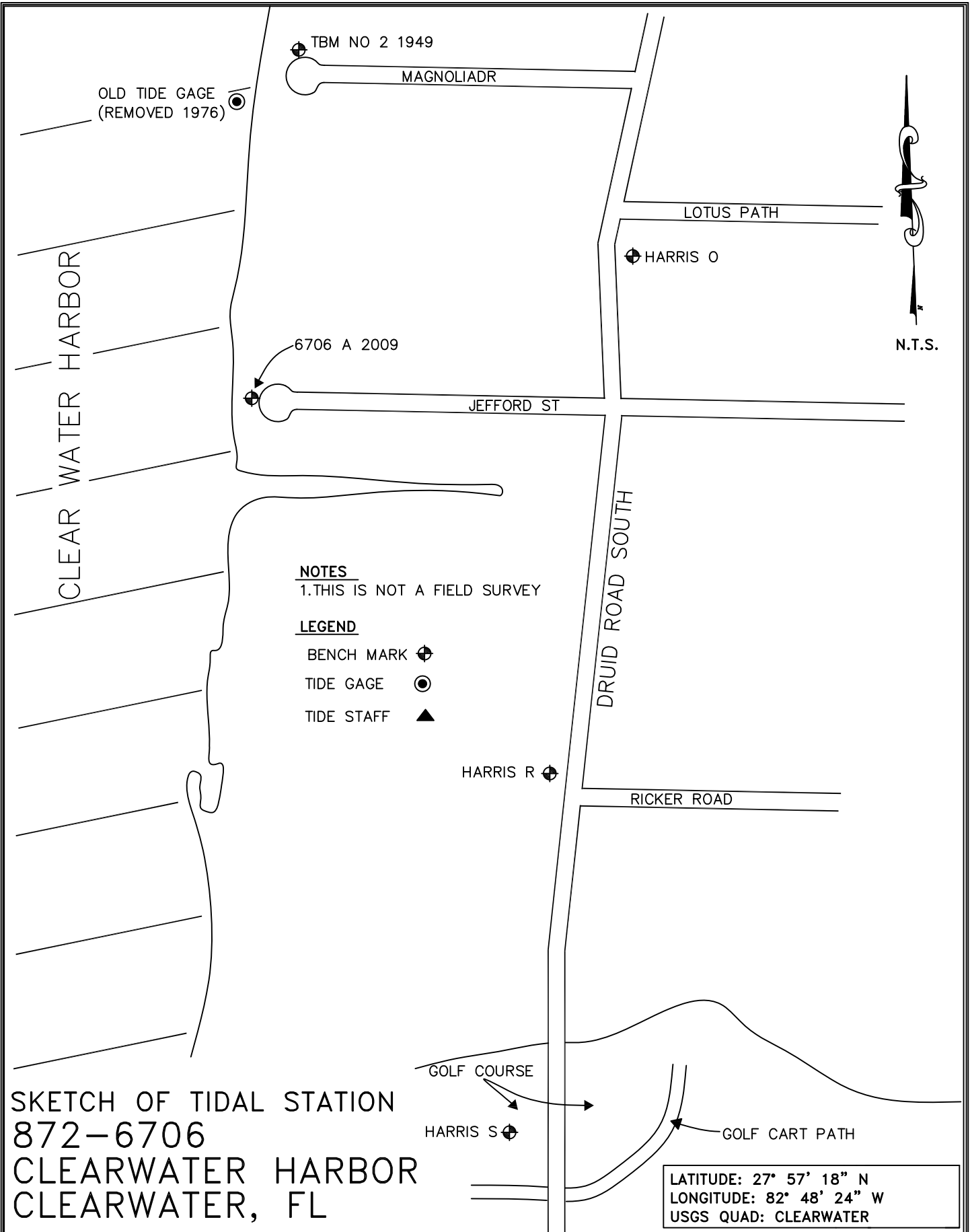
NGVD 29 is a fixed datum adopted as a national standard geodetic reference for heights but is now considered superseded. NGVD 29 is sometimes referred to as Sea Level Datum of 1929 or as Mean Sea Level on some early issues of Geological Survey Topographic Quads. NGVD 29 was originally derived from a general adjustment of the first-order leveling networks of the U.S. and Canada after holding mean sea level observed at 26 long term tide stations as fixed. Numerous local and wide-spread adjustments have been made since establishment in 1929. Bench mark elevations relative to NGVD 29 are available from the National Geodetic Survey (NGS) data base via the World Wide Web at [National Geodetic Survey](#).

NAVD 88 is a fixed datum derived from a simultaneous, least squares, minimum constraint adjustment of Canadian/Mexican/United States leveling observations. Local mean sea level observed at Father Point/Rimouski, Canada was held fixed as the single initial constraint. NAVD 88 replaces NGVD 29 as the national standard geodetic reference for heights. Bench mark elevations relative to NAVD 88 are available from NGS through the World Wide Web at [National Geodetic Survey](#).

NGVD 29 and NAVD 88 are fixed geodetic datums whose elevation relationships to local MSL and other tidal datums may not be consistent from one location to another.

The Vertical Mark Number (VM#) and PID# shown on the bench mark sheet are unique identifiers for bench marks in the tidal and geodetic databases, respectively. Each bench mark in either database has a single, unique VM# and/or PID# assigned. Where both VM# and PID# are indicated, both tidal and geodetic elevations are available for the bench mark listed.

The NAVD 88 elevation is shown on the Elevations of Tidal Datums Table Referred to MLLW only when two or more of the bench marks listed have NAVD 88 elevations. The NAVD 88 elevation relationship shown in the table is derived from an average of several bench mark elevations relative to tide station datum. As a result of this averaging, NAVD 88 bench mark elevations computed indirectly from the tidal datums elevation table may differ slightly from NAVD 88 elevations listed for each bench mark in the NGS database.



SKETCH OF TIDAL STATION  
 872-6706  
 CLEARWATER HARBOR  
 CLEARWATER, FL

- NOTES**  
 1. THIS IS NOT A FIELD SURVEY
- LEGEND**
- BENCH MARK
  - TIDE GAGE
  - TIDE STAFF



DEPT. of ENVIRONMENTAL PROTECTION  
 BUREAU of SURVEY and MAPPING  
 3900 COMMONWEALTH BLVD. TALLAHASSEE, FL 32399  
 (850) 245-2808

FIELD VISIT DATE	SCALE NOT TO SCALE	COUNTY: PINELLAS
UNKNOWN	DRAWN BY C.S.	SEC 16 T29S R15E
DWG. NAME 872-6706	CHECKED BY	OFF. NO.
4/22/11		SHEET 1 OF 1





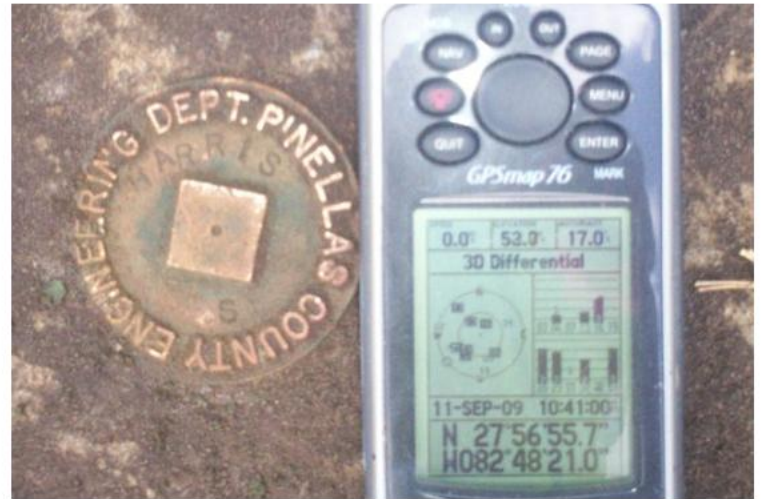
TBM NO 2 1949



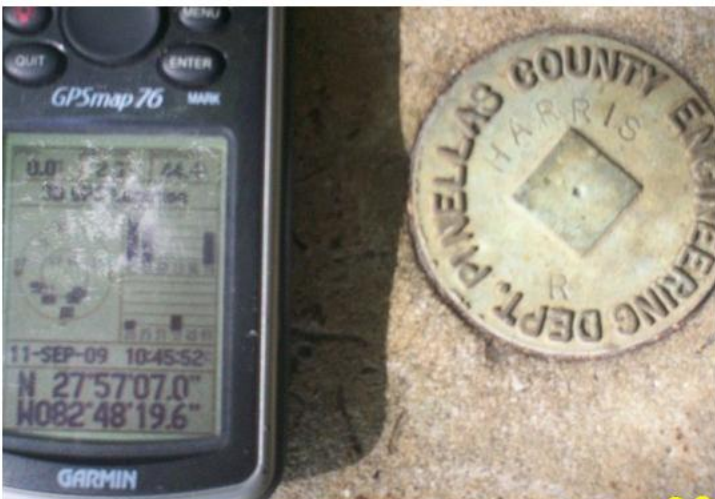
HARRIS O



6706 A 2009



HARRIS S



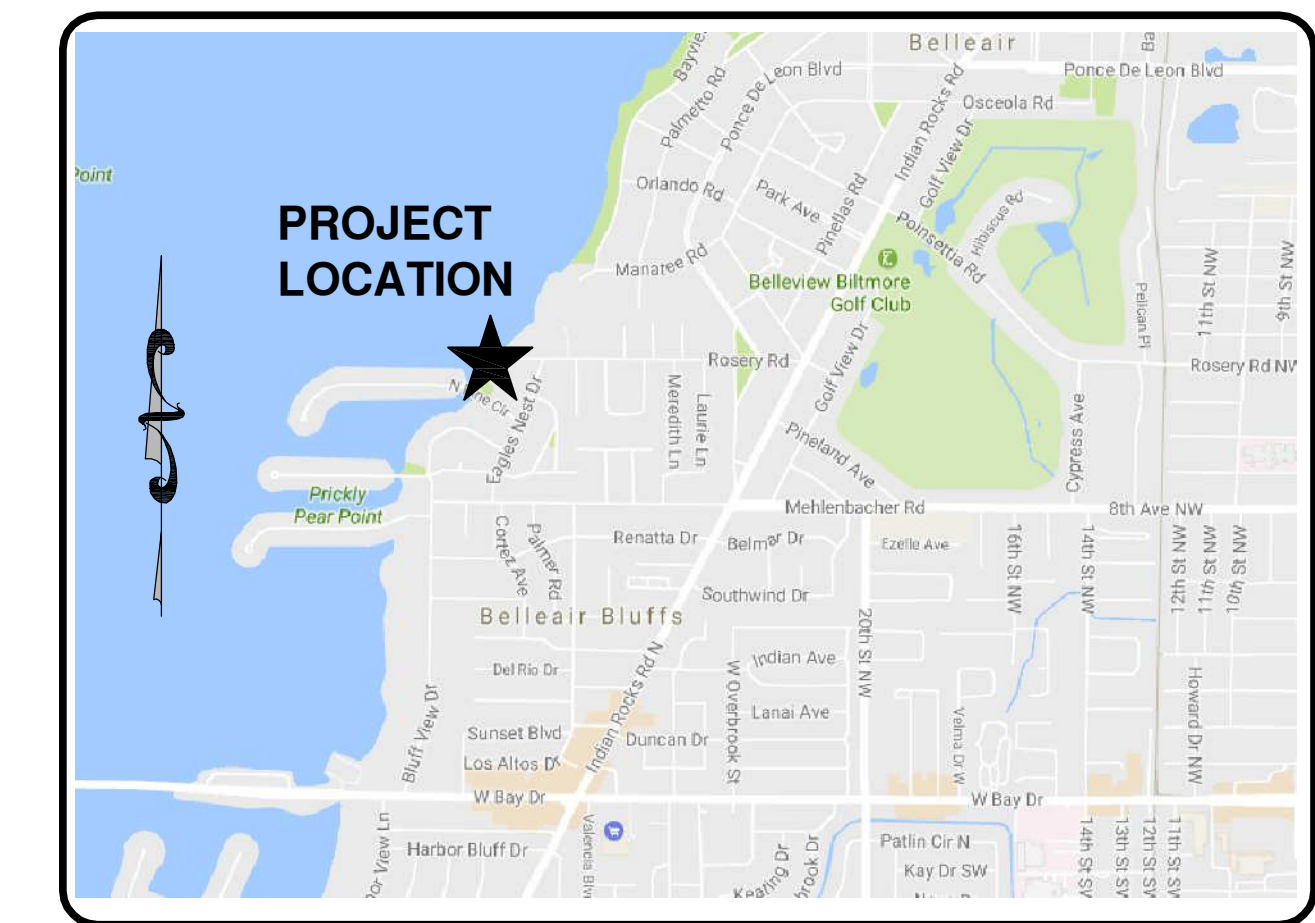
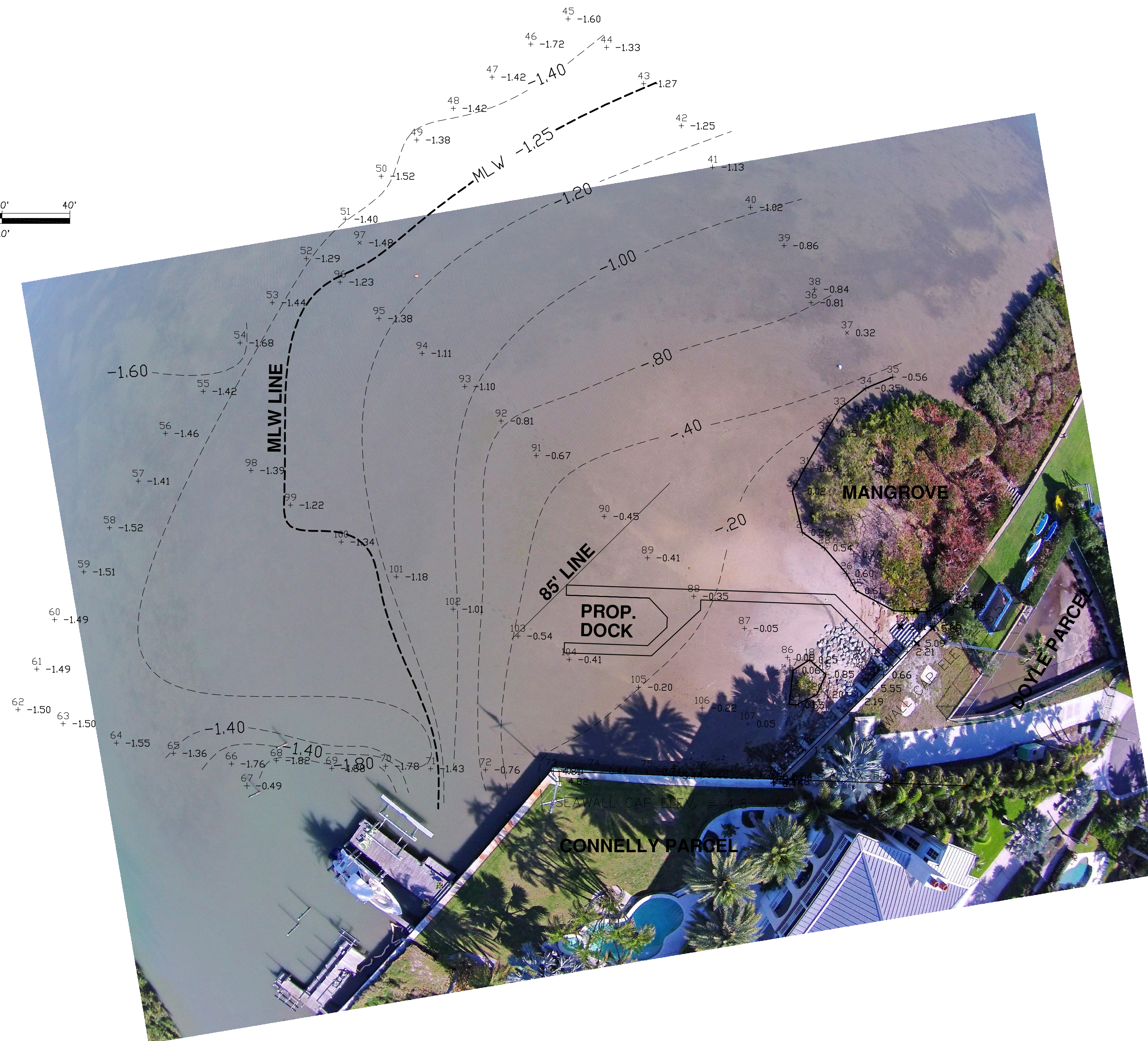
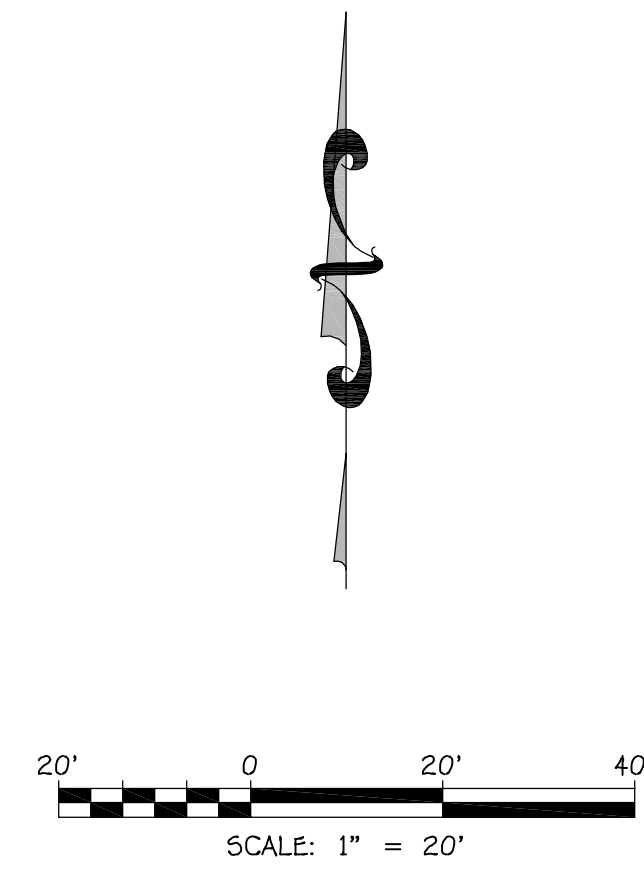
HARRIS R

872-6706

CLEARWATER, FLORIDA  
CLEARWATER HARBOR

PAGE 1 OF 1

SECTION 29, TOWNSHIP 29 SOUTH, RANGE 15 EAST  
PINELLAS COUNTY, FLORIDA



**PROJECT LOCATION**  
NOT TO SCALE

**SURVEYOR'S NOTES:**

1. FIELD WORK COMPLETED 03-07-17
2. LEGAL DESCRIPTION SHOWN HEREON PER PUBLIC RECORDS.
3. ELEVATIONS SHOWN HEREON REPRESENT NAVD88 DATUM AND ARE BASED ON PINELLAS COUNTY BENCH MARK NO. 750, ELEVATION 12.05. ONSITE TEMPORARY ENCH MARK IN NORTH RIM OF SANITARY MANHOLE LOCATED 12'± EAST OF THE RADIUS POINT OF HARBORSIDE CIRCLE NORTH.
4. AERIAL PHOTOGRAPH TAKEN 03-07-17
5. MEAN LOW WATER (MLW) ELEVATION OF -1.25 NAVD88 DATUM PER DATUM ELEVATIONS FOP TIDE STATION NUMBER 872-6706 DATED 02-17-2011 (CLEARWATER HARBOR)

MLW = ELEV. -1.25 NAVD 88 DATUM  
PER TIDE STATION 872-6706  
BOTTOM ELEVATIONS WOULD NEED TO BE AT LEAST  
ELEVATION -3.75 TO HAVE 2.5 FEET DEEP AT MLW  
REQUIRING 3.5' OF BOTTOM TO BE DREDGED AT DOCK LOCATION

**CERTIFIED TO:**

JOHN AND MARILYN CONNELLY  
JOHNSON POPE BOKOR RUPPEL & BURNS, LLP

**SURVEYOR'S CERTIFICATE:**

I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS A TRUE REPRESENTATION OF A SPECIFIC PURPOSE TOPOGRAPHIC SURVEY, PREPARED UNDER MY DIRECT SUPERVISION AND MEETS THE INTENT OF THE STANDARDS OF PRACTICE AS SET FORTH IN CHAPTER 53-17.052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027 FLORIDA STATUTES.

WILLIAM C. WARD  
PROFESSIONAL LAND SURVEYOR NO. 4815  
STATE OF FLORIDA

3-08-17  
DATE

NO.	REVISION	DATE	BY

**WILLIAM C. WARD, PLS**  
Professional Land Surveyor  
SURVEYOR - MAPPER - PLANNER  
610 PINELLAS BAYWAY, SUITE 5201, ST. PETERSBURG, FLORIDA 33715  
PHONE: 941-877-1115



DRAWN BY:	B/W
CHECKED BY:	WCW
DATE:	3-07-16
JOB NUMBER:	17031
FILE:	17031_TOPO.DWG

**CONNELLY - DOYLE**  
SPECIFIC PURPOSE TOPOGRAPHIC SURVEY  
1 HARBORSIDE CIRCLE NORTH  
BELLEAIR, FLORIDA 34643

SHEET NO.  
1  
OF 1