

LEGAL DESCRIPTION:

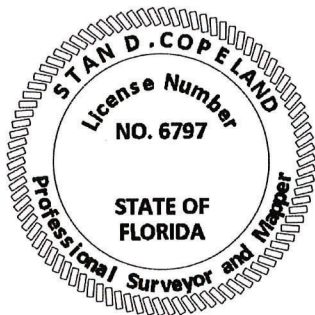
PARCEL 1, LOT 17: A PARCEL OF LAND IN SECTION 9, TOWNSHIP 47 SOUTH, RANGE 43 EAST, PALM BEACH COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE POINT OF INTERSECTION OF THE NORTH LINE OF SAID SECTION 9 AND THE WEST RIGHT-OF-WAY LINE OF STATE ROAD A-1-A AS LAID OUT AND NOW IN USE (100 FOOT RIGHT-OF-WAY); THENCE SOUTH 89°52'10" WEST ALONG SAID NORTH LINE OF SECTION 9, A DISTANCE OF 928.10 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00°07'50" EAST, A DISTANCE OF 35.18 FEET; THENCE SOUTH 50°05'03" WEST, A DISTANCE OF 29.19 FEET; THENCE SOUTH 81°51'23" WEST, A DISTANCE OF 136.63 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF THE INTRACOASTAL WATERWAY AS RECORDED IN PLAT BOOK 17, PAGE 21, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE NORTH 02°17'00" EAST, ALONG SAID EAST RIGHT-OF-WAY LINE A DISTANCE OF 72.97 FEET TO A POINT ON THE NORTH LINE OF SAID SECTION 9; THENCE NORTH 89°52'10" EAST, ALONG SAID NORTH LINE OF SECTION 9, A DISTANCE OF 154.65 FEET TO THE POINT OF BEGINNING. SAID LAND SITUATE, LYING AND BEING IN THE TOWN OF HIGHLAND BEACH, PALM BEACH COUNTY, FLORIDA.

SURVEY NOTES:

1. THIS SURVEY REPRESENTS AN SPECIFIC PURPOSE SURVEY AS DEFINED IN THE STANDARDS OF PRACTICE FOR SURVEYING AND MAPPING IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE.
2. REPRODUCTIONS OF THIS SKETCH ARE NOT VALID UNLESS SEALED WITH AN EMBOSSED SEAL OR SECURE ELECTRONIC SEAL OF THE UNDERSIGNED.
3. THIS SURVEY IS NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED EMBOSSED SEAL OF THE UNDERSIGNED SURVEYOR OR SECURE ELECTRONIC SIGNATURE.
4. NO SEARCH OF THE PUBLIC RECORDS WAS PERFORMED FOR EASEMENTS, ENCUMBRANCES OR OTHER INSTRUMENTS OF RECORD OTHER THAN THOSE SHOWN HEREON WHICH MAY AFFECT THIS PARCEL OF LAND.
5. THIS SURVEY IS INTENDED TO BE DISPLAYED AT SCALE OF 1 INCH EQUALS 20 FEET OR SMALLER.
6. UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY.
7. UNLESS OTHERWISE NOTED, BEARINGS, ANGLES AND DISTANCES SHOWN HEREON ARE MEASURED AND CONSISTENT WITH THE INSTRUMENT OF RECORD.
8. ANY ELEVATIONS SHOWN ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).

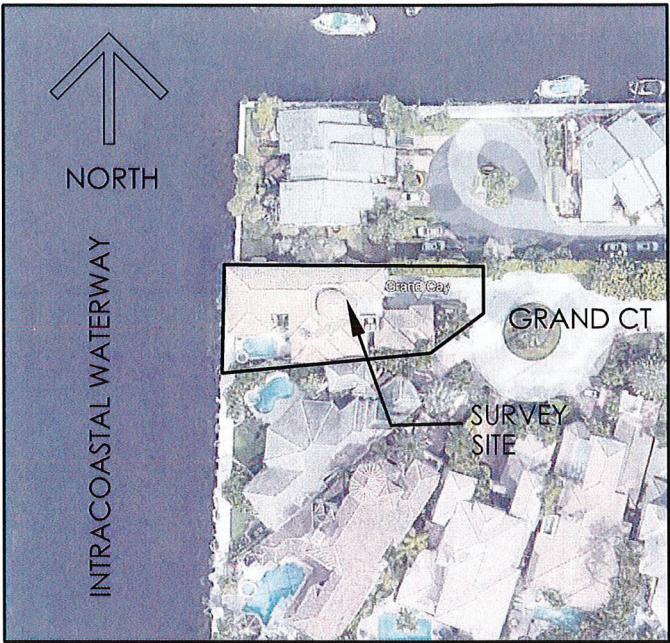
CERTIFICATION:

I HEREBY CERTIFY THAT THE ATTACHED SPECIFIC PURPOSE SURVEY OF THE HEREON DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED UNDER MY DIRECTION ON JUNE 26TH, 2023 I FURTHER CERTIFY THAT THIS AS-BUILT SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH IN CHAPTER 5J-17 ADOPTED BY THE FLORIDA BOARD OF SURVEYORS AND MAPPERS PURSUANT TO FLORIDA STATUTE 472.027.



Digitally signed by Stanley Copeland
DN: c=US,
serialNumber=AATL20230406293170,
cn=Stanley Copeland,
email=stan@tdisurvey.com
Date: 2023.07.05 12:30:18 -04'00'

STAN D. COPELAND, PSM, FLORIDA REGISTRATION NUMBER 6797
JULY 5TH, 2023

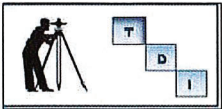


LOCATION MAP (NTS) HIGHLAND BEACH, FLORIDA
1017 GRAND COURT

ABBREVIATIONS/LEGEND	
PL	PROPERTY LINE
PSM	PROFESSIONAL LAND SURVEYOR
PBCR	PALM BEACH COUNTY RECORDS
IR	IRON ROAD
CONC	CONCRETE
PROP	PROPERTY
D	DELTA ANGLE
L	ARC LENGTH
R	RADIUS
R/W	RIGHT OF WAY
LB	LICENSED BUSINESS
IP	IRON PIPE
FND	FOUND
ELEV	ELEVATION (NAVD-88) FT
POB	POINT OF BEGINNING
POC	POINT OF COMMENCMENT
ORB	OFFICAL RECORD BOOK
PG	PAGE

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SEP 21 2023
HIGHLAND BEACH
BUILDING DEPARTMENT

PREPARED BY:



TECHNICAL DISCIPLINES, INC. (LB 8123)
1533 SE 8TH TERRACE
DEERFIELD BEACH, FLORIDA 33441
954-850-2008

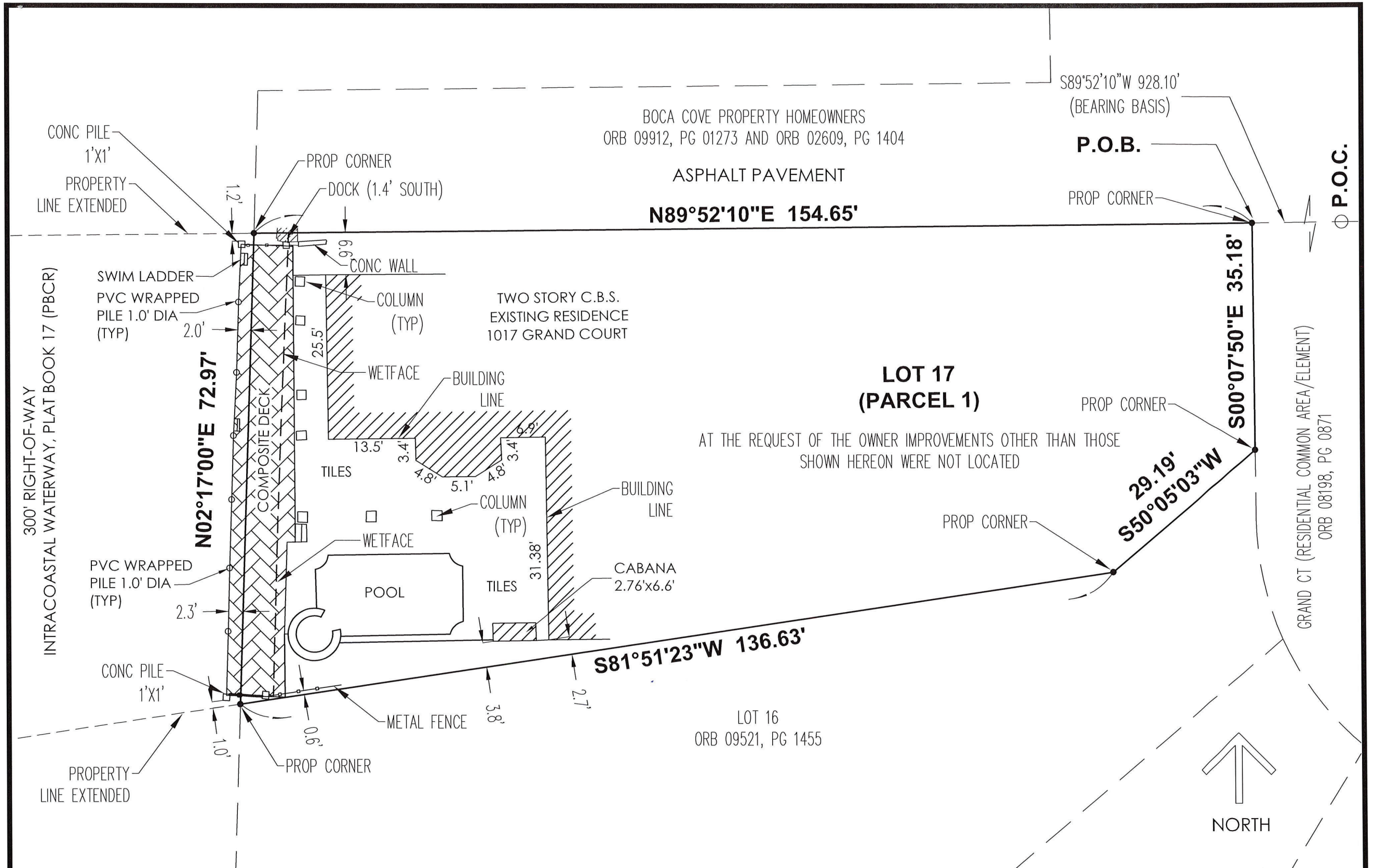
PREPARED FOR:

B&M MARINE CONSTRUCTION
1211 S. MILITARY TRAIL, STE 200
DEERFIELD BEACH, FL 33442

SPECIFIC PURPOSE SURVEY

LOT 17, PARCEL 1 (ORB 29099, PG 259), PBCR
1017 GRAND COURT, HIGHLAND BEACH, FLORIDA, 33487

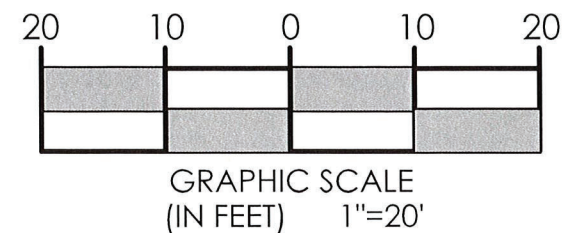
DRAWING NO.:	TDI-1452	JOB NO.:	TDI-1452-SP
DRAWN BY:	SDC	CHECKED BY:	JDC
SCALE:	AS SHOWN	DATE:	7/5/23
		SHEET	1 OF 2



PREPARED BY:



TECHNICAL DISCIPLINES, INC. (LB 8123)
1533 SE 8TH TERRACE
DEERFIELD BEACH, FLORIDA 33441
954-850-2008



SPECIFIC PURPOSE SURVEY		
LOT 17, PARCEL 1 (ORB 29099, PG 259), PBCR 1017 GRAND COURT, HIGHLAND BEACH, FLORIDA, 33487		
DRAWING NO.: TDI-1452	JOB NO.: TDI-1452-SP	
DRAWN BY: SDC	CHECKED BY: JDC	
SCALE: AS SHOWN	DATE: 7/5/23	SHEET 2 OF 2

EXISTING CONCRETE
RETAINING WALL,
SEAWALL, CAP AND
PILINGS TO REMAIN

RECEIVED
SEP 21 2023
HIGHLAND BEACH
BUILDING DEPARTMENT

NOTES:

1. Unless otherwise noted field measurements are in agreement with record measurements.
2. Bearings shown hereon are based on a bearing of South 89 degrees 52'10" West along said North line of Section 9, Township 47 south, Range 43 East, Palm Beach County, Florida.
3. The lands shown hereon were not abstracted for ownership, rights of way, easements, or other matters of records by Accurate Land Surveyors, Inc.
4. Ownership of fences and walls if any are not determined.
5. This survey is the property of Accurate Land Surveyors, Inc. and shall not be used or reproduced in whole or in part without written authorization.
6. This survey is made for the exclusive use of the certified hereon, to be valid one year from the date of survey as shown hereon.
7. This survey was made for mortgage and title purposes only and is not valid for design or construction purposes.

EXISTING CONDITIONS
SCALE: 1" = 20'-0"

1 8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;

ACCURATE LAND SURVEYORS, INC.
 L.B. #3635
 1150 E. ATLANTIC BLVD.
 POMPAHO BEACH, FLORIDA 33060
 TEL. (954) 782-1441
 FAX. (954) 782-1442

<u>LEGEND OF ABBREVIATIONS:</u>		
Δ	=	CENTRAL ANGLE
A	=	ARC LENGTH
CB	=	CHORD BEARING
R	=	RADIUS
R/W	=	RIGHT OF WAY
P.C.	=	POINT OF CURVATURE
P.T.	=	POINT OF TANGENCY
WM	=	WATER METER
CH	=	OVERHANG
N	=	NORTH
S	=	SOUTH
E	=	EAST
W	=	WEST
CONC.	=	CONCRETE
N.A.V.D.	=	NORTH AMERICAN VERTICAL DATUM
ELEV.	=	ELEVATION
B.M.	=	BENCHMARK
		+1.00 = ELEVATIONS BASED ON N.A.V.D.
		4.00 FT. = SQUARE FEET
		P.C.P. = PERMANENT CONTROL POINT
		P.B.C.R. = PALM BEACH COUNTY RECORDS
		N = PLAT
		ND = NAIL & DISC
		P.O.C. = POINT OF COMMENCEMENT
		P.O.B. = POINT OF BEGINNING
		A/C = AIR CONDITIONER
		FND. = FOUND
		CHATT. = CHATTAHOOCHEE
		F.P.L. = FLORIDA POWER & LIGHT
		B.C.R. = BROWARD COUNTY RECORDS
		P.B. = PLAT BOOK
		O.R.S. = OFFICIAL RECORDS BOOK
		F.C. = FINISHED FLOOR
		GAR. = GARAGE
		C/L = CENTERLINE

LEGAL DESCRIPTION:
PARCEL 1
LOT 17:
A parcel of land in Section 9, Township 47 south, Range 43 East, Palm Beach County, Florida, being more particularly described as follows:

Commencing at the Point of Intersection of the North line of said Section 9 and the West right of way line of State Road A-1-A as laid out and now in use (100 feet right-of-way), thence South 89 degrees 52'10" West along said North line of Section 9, a distance of 928.10 feet to the Point of Beginning; thence South 00 degrees 07'50" East, a distance of 35.18 feet; thence South 50 degrees 05'03" West, a distance of 29.19 feet; thence South 81 degrees 51'23" West, a distance of 136.63 feet to a point on the East right-of-way line of the Intracoastal Waterway as recorded in Plat Book 17, Page 21, of the Public Records of Palm Beach County, Florida; thence North 02 degrees 17'00" East, along said East right-of-way line a distance of 72.97 feet to a point on the North line of said Section 9; thence North 89 degrees 52'10" East, along said North line of Section 9, a distance of 154.62 feet to the Point of Beginning. Said land situate, lying and being in the Town of Highland Beach, Palm Beach County, Florida.

PARCEL 2
Boat Slip #12:
A parcel of land in Section 9, Township 47 South, Range 43 East, Palm Beach County, Florida, being more particularly described as follows:

Commencing at the Point of Intersection of the North line of said Section 9 and the West Right-of-Way line of State Road A-1-A as laid out and now in use (100 Foot Right-of-Way); thence South 89 degrees 52'10" West along said North line of Section 9, a distance of 228.33 feet; thence South 111 degrees 00'00" West, along the most Westerly West line of that parcel of land described in Official Records Book 3423, Page 1629 of the Public Records of Palm Beach County, Florida, a distance of 238.08 feet to a point on the Northerly boundary of that parcel of land described in Official Records Book 3861, Page 457 of the Public Records of Palm Beach County, Florida; thence North 79 degrees 00'00" West along said North line, a distance of 40.00 feet; thence South 111 degrees 00'00" West, a distance of 241.48 feet; thence South 00 degrees 06'22" West, a distance of 43.22 feet to a Point of Curvature of a circular curve concave to the Northwest having a radius of 15500 feet and a central angle of 90 degrees 00'00"; thence Southwesterly along the arc of said curve an arc distance of 23.56 feet to a point of tangency; thence North 89 degrees 53'38" West, a distance of 45.31 feet; thence North 87 degrees 51'34" West, a distance of 100.98 feet to a point on the most Easterly East line of that parcel of land described in Official Records Book 3644, Page 1731 of the Public Records of Palm Beach County, Florida, the last five described courses being coincident with the boundary of that parcel of land described in Official Records Book 3861, Page 457 of the Public Records of Palm Beach County, Florida; thence North 02 degrees 08'21" East along said East line, a distance of 9.92 feet; thence South 47 degrees 08'12" West, a distance of 14.14 feet; thence North 87 degrees 51'38" West, a distance of 65.18 feet; thence North 43 degrees 55'49" West, a distance of 14.40 feet; thence North a distance 19.31 feet; thence North 45 degrees 00'00" East, a distance of 7.00 feet; thence North, a distance of 40.00 feet; thence North 45 degrees 00'00" West, a distance of 28.78 feet; thence West, a distance of 37.40 feet to the Point of Beginning, the last seven described courses being coincident with the boundary of that parcel of land described in Official Records Book 3644, Page 1731 of the Public Records of Palm Beach County, Florida, thence continuing West along said boundary, a distance of 20.01 feet; thence North 00 degrees 46'02" East, a distance of 60.01 feet; thence East a distance of 17.5 feet; thence South 01 degree 40'32" East, a distance of 60.03 feet to the Point of Beginning.

BENCHMARK INFORMATION:
ALS-SU-12-2079 Elevation = 7.55' NGVD1929

KNOWN EASEMENTS:
None

OBSERVED ENCROACHMENTS:
 Driveway and wall in Frand Court along the East boundary of Parcel 1.
 Dock and piles in Intracoastal Waterway along the West boundary of Parcel 1.
 Piles in canal along the East and West boundary of Parcel 2.
 Shed across South boundary.

CERTIFY TO:
Corporate Title Inc.
Old Republic National Title Insurance
Company
Jamie Hamuy and Nissan H. Hamuy

DATE OF FIELD SURVEY: 05-05-17	DRAWN BY: MLW	
FIELD BOOK: ALS-SU-17-1518	CHECKED BY: MLW	
REVISIONS	DATE	BY


CERTIFICATION:
This is to certify that this above ground sketch of boundary survey was made under my responsible charge and is accurate and correct to the best of my knowledge and belief. I further certify that this sketch meets the current Standards of Practice, established by the Board of Professional Surveyors and Mappers, Chapter 51-17, Florida Administrative Codes, pursuant to current Section 472.027, Florida Statutes.

Not valid without the signature and official seal of the original releaser and a Florida Licensed Surveyor and Mapper.

Robert L. Thompson 5-15-17

ROBERT L. THOMPSON (PRESIDENT)
PROFESSIONAL SURVEYOR AND MAPPER No.3669 - STATE OF FLORIDA

SHEET 1 OF 1	SCALE 1"=20'	SKETCH NUMBER	SU-17-1518
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This item has been digitally signed and sealed by Mark E. Weber PE# 53895 on the date adjacent to the seal.
Valid to 02/28/2020
58 78 23 D1 C2 AD AD 78 9F BD 66 37 EA
Signature must be verified on electronic copies

Mark E. Weber, P.E.
 LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MWEngineering.net

PREPARED FOR:
**B & M MARINE
CONSTRUCTION, INC.**
1211 South Military Trail, Suite 200
Deerfield Beach, Fl 33442
954-421-1700 CGC0502820

SEAWALL FOR:
HAMUY RESIDENCE
1017 GRAND COURT
HIGHLAND BEACH, FL

DATE	NOTES/REVISIONS
8/11/2023	Corrections 1

SCALE: AS NOTED

DATE: 7/3/2023

JOB No: 19-2165

SHT 1

1 of 7

Digitally
signed by
Mark E
Weber
Date:
2023.09.18
17:43:03
-04'00'

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SEP 21 2023

HIGHLAND BEACH
BUILDING DEPARTMENT

INTRACOASTAL WATERWAY

(300' RIGHT OF WAY)

P.B. 17, PG. 21, P.B.C.R.

N 02°17'00" E 72.97'

VARIES 2' TO 2.3' FROM
EDGE OF EXISTING DOCK
TO PROPERTY LINE

column
(TYPICAL)

pile
(TYPICAL)

EXISTING CONCRETE
RETAINING WALL,
SEAWALL, CAP AND
PILINGS TO REMAIN

SET NAIL &
DISC LB3635

EXISTING CONDITIONS
SCALE: N.T.S.

E. R/W LINE OF THE
INTRACOASTAL WATERWAY

O/S E-3
ONLINE

pvc

pool

spa

EXISTING WETFACE

EDGE OF EXISTING
CONCRETE CAP

valve

6' concrete wall

#1017

2 STORY RESIDENCE

PARCEL 1

LOT 17

GRAY CAY ESTATES

O.R.B. 8148, PG. 871, P.B.C.R.

FF=8.20'NGVD1929

GARAGE=7.50'NGVD1929

S 81°51'23" W

136.63'

N-0.21'

NW-0.33'

NW-0.42'

1.85'

2.50'

11.50'

4.87'

19.15'

31.41'

6.80'

3.50'

4.82'

5.09'

4.81'

3.43'

13.49'

12.40'

25.49'

11.30'

90.38'

N 05°02'10" E



Digitally
signed by
Mark E
Weber
Date:
2023.09.18
17:43:32
-04'00'

Mark E. Weber, P.E.
LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MWEngineering.net

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954-421-1700 CGC052820

SEAWALL FOR:

HAMUY RESIDENCE
1017 GRAND COURT
HIGHLAND BEACH, FL

DATE	NOTES/REVISIONS
8/11/2023	Corrections 1

SCALE: AS NOTED

DATE: 7/3/2023

JOB No: 19-2165

SHT 2

2 of 7

8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;

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HIGHLAND BEACH
BUILDING DEPARTMENT



Digitally
signed by
Mark E
Weber
Date:
2023.09.18
17:43:48
-04'00'

Mark E. Weber, P.E.
LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

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954-421-1700 CGC052820

SEAWALL FOR:

HAMUY RESIDENCE
1017 GRAND COURT
HIGHLAND BEACH, FL

DATE: 8/11/2023

NOTES/REVISIONS

Corrections 1

Corrections 2

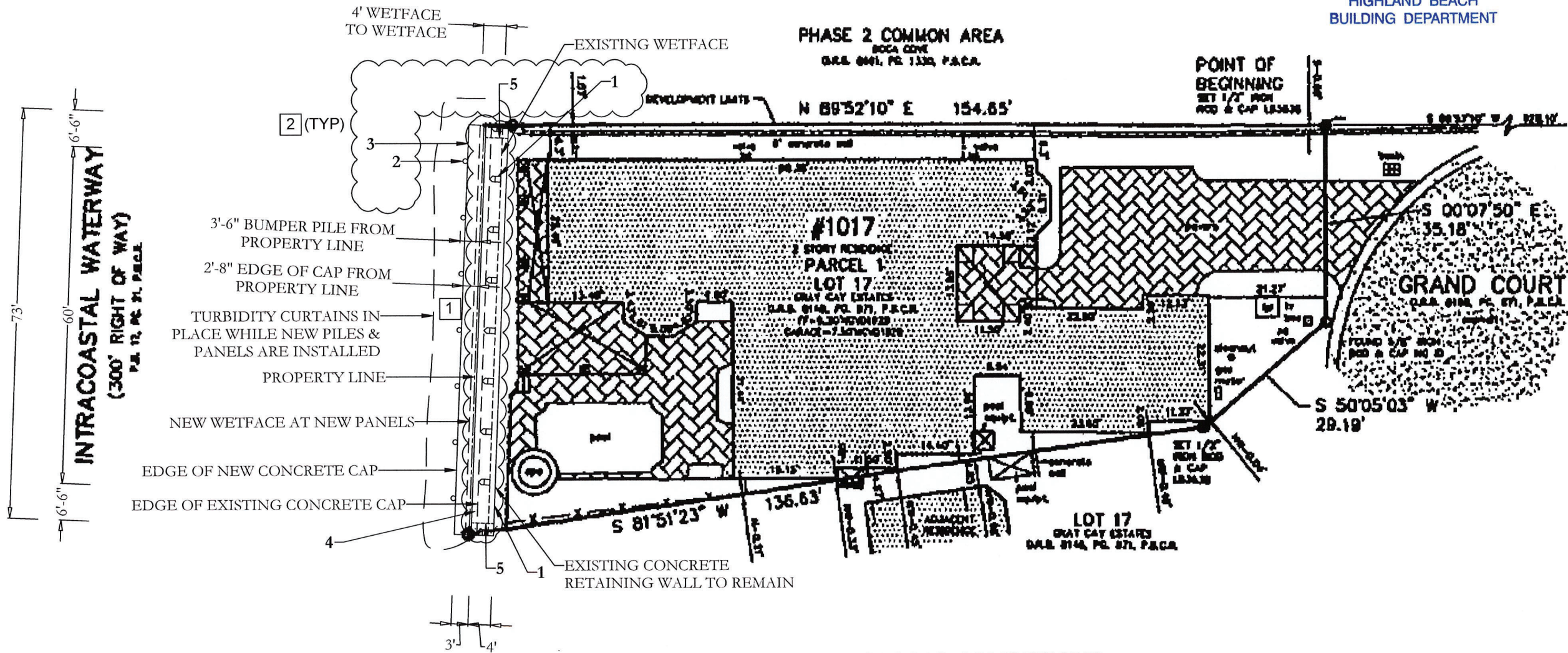
SCALE: AS NOTED

DATE: 7/3/2023

JOB No: 19-2165

SHT 3

3 of 7



FILL VOLUMES (for seawall and backfill):			
Backfill -	71.83' x 4.00' x 8.31' (ave. depth)	288.00sf	67.00cy
Panels -	73.00' x 0.58' x 7.50' (depth)	42.58sf	11.83cy
Return Panels -	6.83' x 0.58' x 7.50' (depth)	3.99sf	1.11cy
Total Fill -		334.57sf	79.94cy

PROPOSED CONDITIONS
SCALE: 1' = 20'-0"

PROPOSED CONDITIONS IDENTIFICATION:

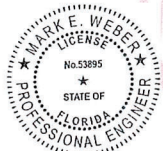
- EXISTING SEAWALL, CAP AND PILES TO REMAIN
- PROPOSED 10" DIA. WOOD BUMPER PILE (TYP OF 7)
- 73' OF PROPOSED 36" x 16" CONCRETE SEAWALL CAP
- CLEAN BACKFILL MATERIAL BETWEEN EXISTING AND NEW SEAWALLS; 71'-10" x 4' WIDE; 288SF; 67CY
- 48" OF PROPOSED 26" x 16" CONCRETE RETURN CAP (RETURN PANEL IS 40" LONG)

- 2 9/18/23 Corrections per City comments;
1 8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;

RECEIVED

SEP 21 2023

HIGHLAND BEACH
BUILDING DEPARTMENT



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signed by
Mark E
Weber
Date:
2023.09.18
17:44:02
-04'00'

Mark E. Weber, P.E.
LICENSE #53895 | CA 30702

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902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
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12115 South Military Trail, Suite 200
Deerfield Beach, FL 33442
954-421-1700 CGC052820

SEAWALL FOR:

HAMUY RESIDENCE
1017 GRAND COURT
HIGHLAND BEACH, FL

DATE	NOTES/REVISIONS
8/11/2023	Corrections 1
9/18/2023	Corrections 2

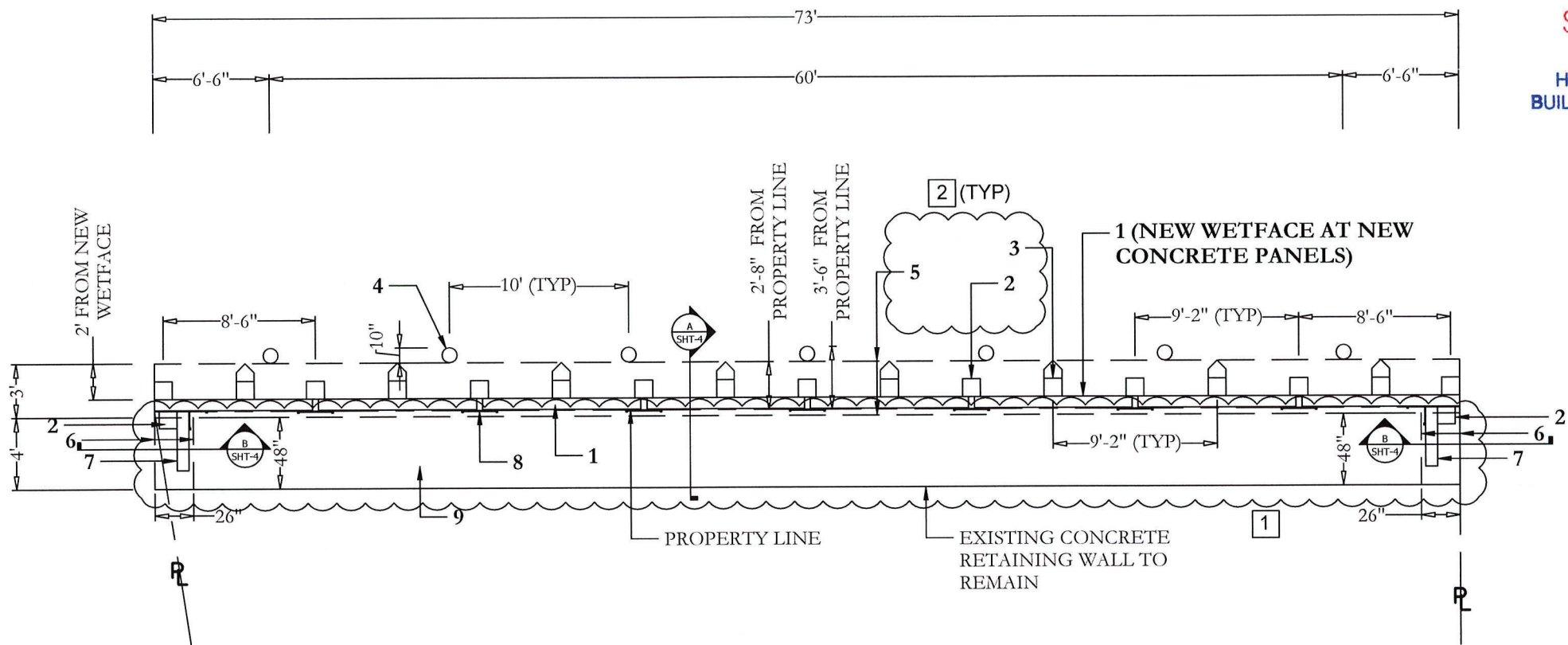
SCALE: AS NOTED

DATE: 7/3/2023

JOB No: 19-2165

SHT 4

4 of 7



PILE LAYOUT

SCALE: 1/8" = 1'-0"

PILE LAYOUT IDENTIFICATION:

1. PROPOSED 8'-10" x 7.5" x 12' PRE-CAST CONCRETE PANEL (SEE SHT-5 FOR DETAILS)
2. PROPOSED 12" x 12" CONCRETE VERTICAL PILE (TYP OF 11)
3. PROPOSED 12" x 12" CONCRETE BATTER PILE (TYP OF 8)
4. PROPOSED 10" DIA. WOOD BUMPER PILE (TYP OF 7)
5. EDGES OF PROPOSED CONCRETE SEAWALL CAP
6. EDGES OF PROPOSED CONCRETE RETURN CAP
7. PROPOSED 40" x 7.5" x 12' PRE-CAST CONCRETE RETURN PANEL
8. GEOTEXTILE FABRIC AT CONCRETE PANEL GAPS
9. CLEAN BACKFILL MATERIAL BETWEEN EXISTING AND NEW SEAWALLS; 71'-10" x 4' WIDE; 288SF; 67CY

2 9/18/23 Corrections per City comments;

1 8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;

SEP 21 2023

2'-8" EDGE OF CAP FROM PROPERTY LINE

Digitally
signed by
Mark E
Weber
Date:
2023.09.18
17:44:16
-04'00'

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
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WWW.MwEngineering.net

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SEAWALL FOR:
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1017 GRAND COURT
HIGHLAND BEACH, FL

DATE	NOTES/REVISIONS
8/11/2023	Corrections 1
9/18/2023	Corrections 2

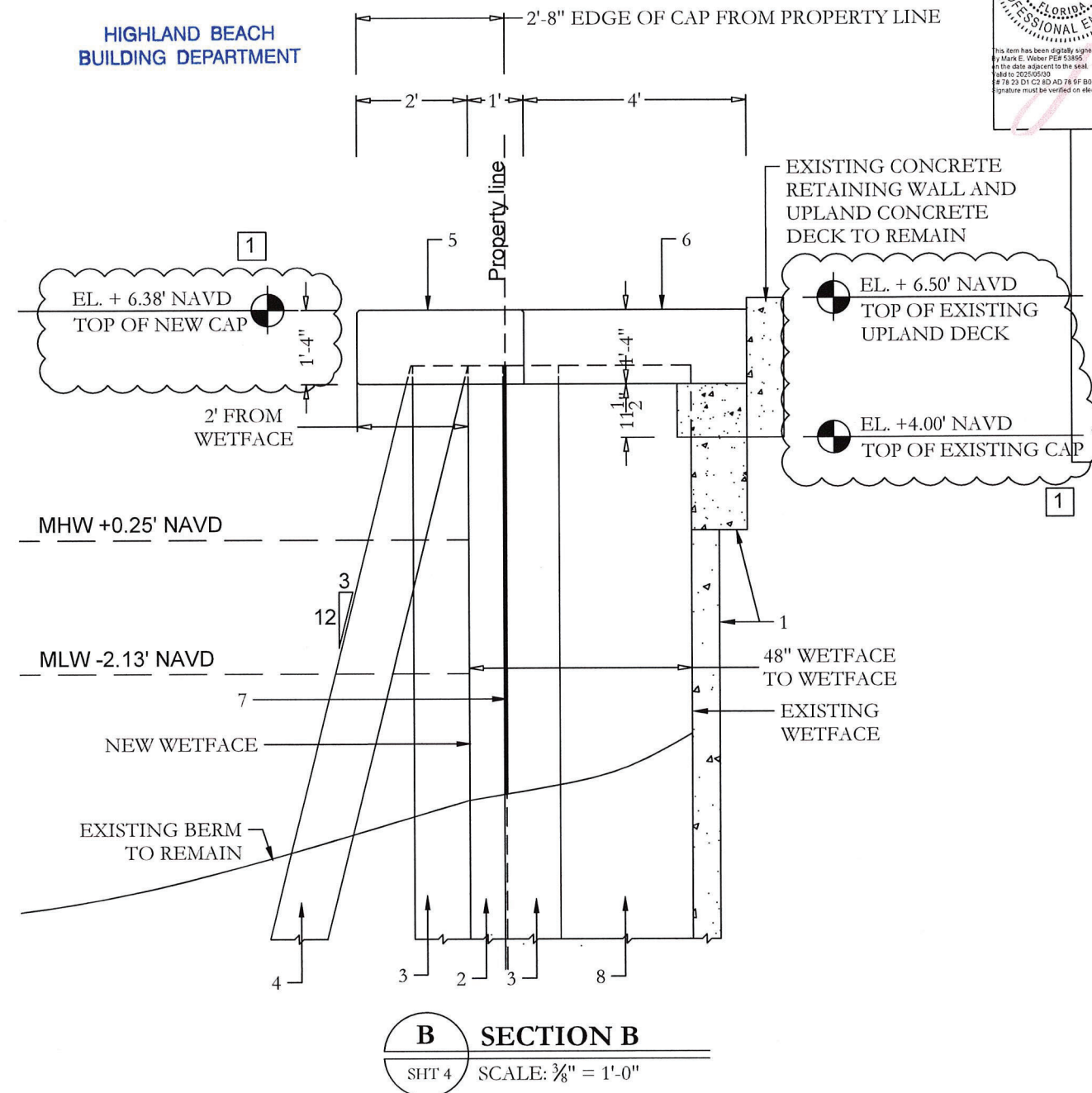
SCALE: AS NOTED

DATE: 7/3/2023

JOB No: 19-2165

SHT 5

5 of 7

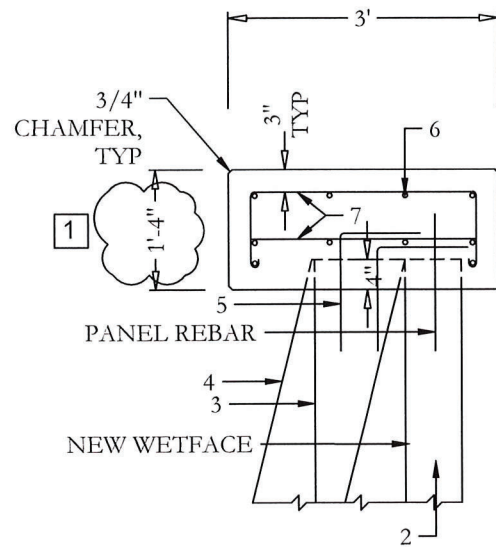


1. EXISTING SEAWALL, CAP AND PILES TO REMAIN
2. PROPOSED 8'-10" x 7.5" x 12' PRE-CAST CONCRETE PANEL (SEE SHT-5 FOR DETAILS)
3. PROPOSED 12" x 12" CONCRETE VERTICAL PILE
4. PROPOSED 12" x 12" CONCRETE BATTER PILE
5. PROPOSED 10" DIA. WOOD BUMPER PILE
6. 73' OF PROPOSED 36" x 16" CONCRETE SEAWALL CAP
7. ~~GEOTEXTILE FABRIC AT CONCRETE PANEL GAPS~~
8. CLEAN BACKFILL MATERIAL BETWEEN EXISTING AND NEW SEAWALLS; 71'-10" x 4

1. EXISTING SEAWALL, CAP AND PILES TO REMAIN
2. PROPOSED 8'-10" x 7.5" x 12' PRE-CAST CONCRETE PANEL (SEE SHT-5 FOR DETAILS)
3. PROPOSED 12" x 12" CONCRETE VERTICAL PILE
4. PROPOSED 12" x 12" CONCRETE BATTER PILE
5. 73' OF PROPOSED 36" x 16" CONCRETE SEAWALL CAP
6. 48" OF PROPOSED 26" x 16" CONCRETE RETURN CAP
7. GEOTEXTILE FABRIC AT CONCRETE PANEL GAPS
8. PROPOSED 40" x 7.5" x 12' PRE-CAST CONCRETE RETURN PANEL

2 9/18/23 Corrections per City comments;

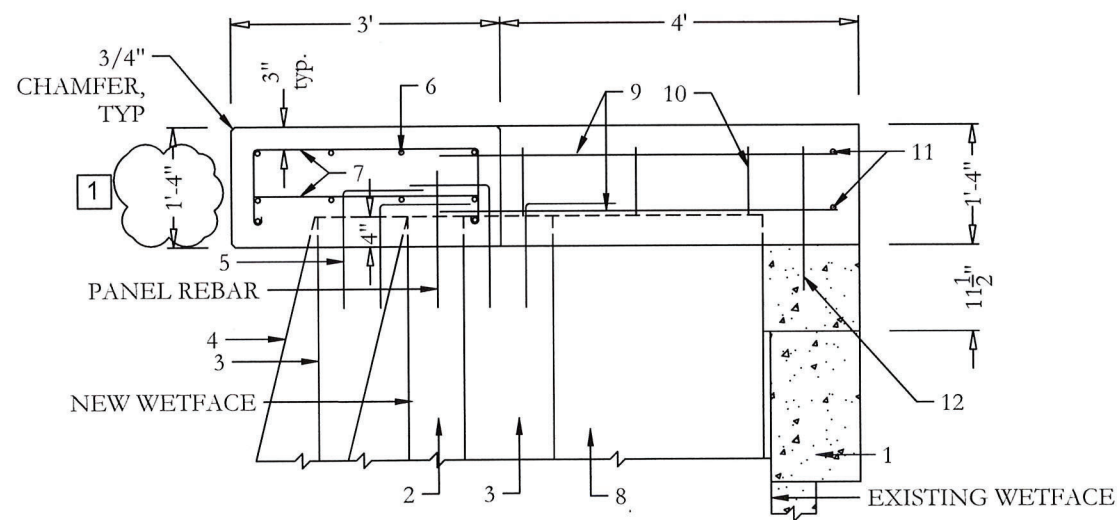
1 8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;



CAP STEEL DETAIL
SCALE: 1/2" = 1'-0"

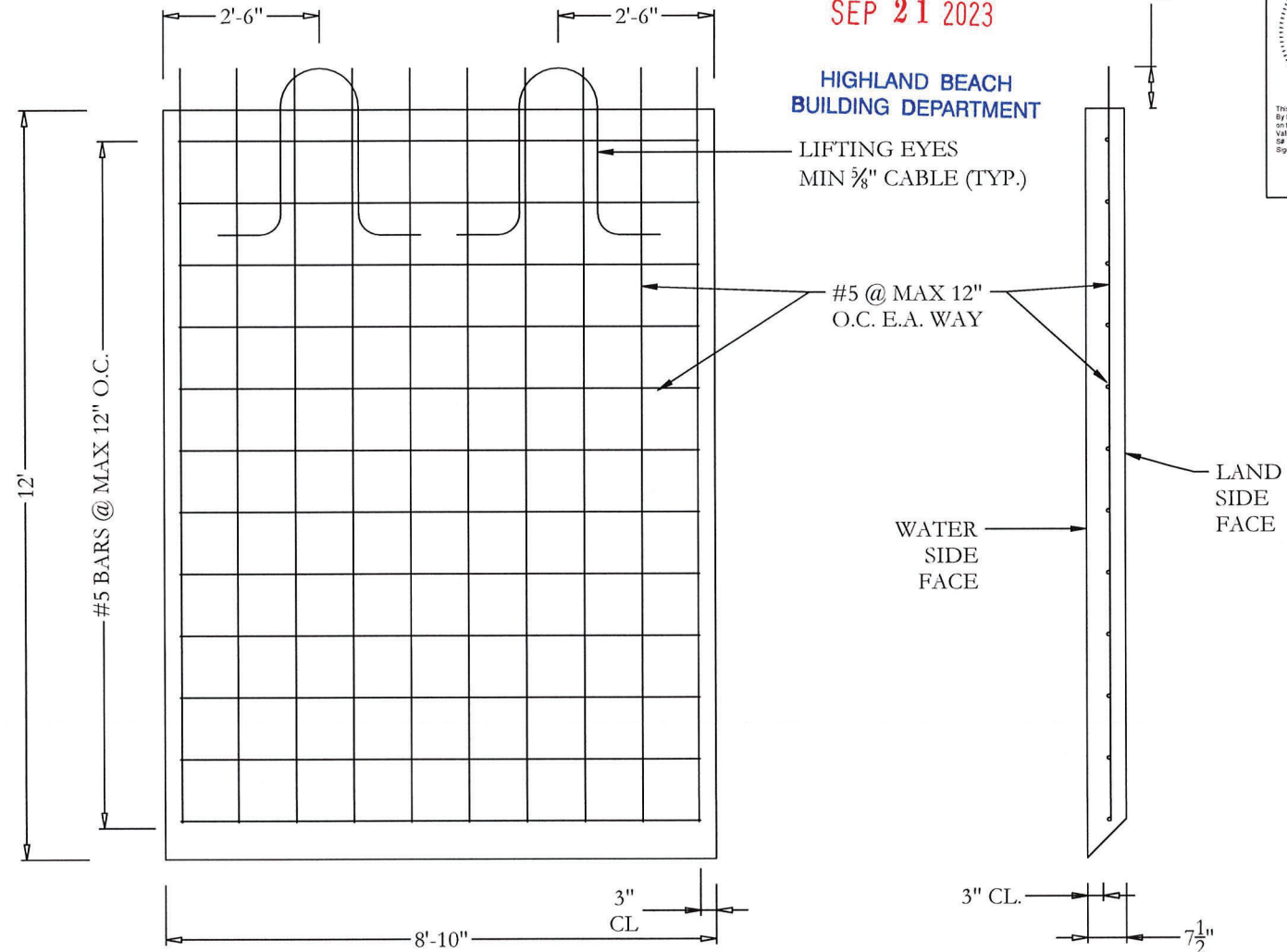
CAP STEEL IDENTIFICATION:

- EXISTING SEAWALL, CAP AND PILES TO REMAIN
- PROPOSED 8'-10" x 7.5" x 12' PRE-CAST CONCRETE PANEL (SEE SHT-5 FOR DETAILS)
- PROPOSED 12" x 12" CONCRETE VERTICAL PILE (TYP OF 11)
- PROPOSED 12" x 12" CONCRETE BATTER PILE (TYP OF 8)
- EXTEND PILE STRANDS A MIN. OF 18" INTO CAP/DOCK SLAB STEEL OR CUT STRANDS EVEN W/ TOP OF PILINGS & DOWEL & EPOXY (2) #5 L-BARS, 12" LONG W/ 12" BEND, INTO TOP OF PILINGS, W/ A MIN. OF 4" EMBEDMENT.
- (10) #5 BARS CONTINUOUS
- #3 STIRRUPS WITH #3 CROSS TIES @ 18" O.C.



CAP & RETURN STEEL DETAIL
SCALE: 1/2" = 1'-0"

1 8/11/23 Corrections per City comments; Removed landward cap extension; Thickened new cap;



CONCRETE PANEL DETAIL
SCALE: 3/8" = 1'-0"

SIDE VIEW
SCALE: 3/8" = 1'-0"

NOTE:
PANEL HEIGHT TO BE VERIFIED ON SITE BY CONTRACTOR BEFORE CONSTRUCTION, TO PROVIDE A MINIMUM OF 2' EMBEDMENT INTO EXISTING GRADE.

CAP & RETURN STEEL IDENTIFICATION:

- EXISTING SEAWALL, CAP AND PILES TO REMAIN
- PROPOSED 8'-10" x 7.5" x 12' PRE-CAST CONCRETE PANEL (SEE SHT-5 FOR DETAILS)
- PROPOSED 12" x 12" CONCRETE VERTICAL PILE (TYP OF 11)
- PROPOSED 12" x 12" CONCRETE BATTER PILE (TYP OF 8)
- EXTEND PILE STRANDS A MIN. OF 18" INTO CAP/DOCK SLAB STEEL OR CUT STRANDS EVEN W/ TOP OF PILINGS & DOWEL & EPOXY (2) #5 L-BARS, 12" LONG W/ 12" BEND, INTO TOP OF PILINGS, W/ A MIN. OF 4" EMBEDMENT.
- (10) #5 BARS CONTINUOUS
- #3 STIRRUPS WITH #3 CROSS TIES @ 18" O.C.
- PROPOSED 40" x 7.5" x 12' PRECAST CONCRETE PANEL
- (5) #5 BARS CONTINUOUS (3 TOP AND 2 BOTTOM), EXTENDED TO SEAWALL CAP STEEL
- #3 STIRRUPS @ 15" O.C.
- (2) #5 BARS CONTINUOUS ACROSS BACK EDGE
- (2) #5 BARS VERTICAL, EXTENDED MIN 6" INTO REMAINING VOID ABOVE EXISTING CAP; FILL VOID WITH CONCRETE GROUT

RECEIVED

SEP 21 2023

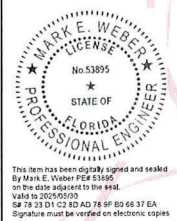
HIGHLAND BEACH
BUILDING DEPARTMENT

LIFTING EYES
MIN 3/8" CABLE (TYP.)

#5 @ MAX 12"
O.C. E.A. WAY

WATER
SIDE
FACE

LAND
SIDE
FACE



Digitally
signed by
Mark E
Weber
Date:
2023.09.18
17:44:41
-04'00'

Mark E. Weber, P.E.
LICENSE #53895 | CA 30702
MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

PREPARED FOR:
B & M MARINE
CONSTRUCTION, INC.
1211 South Military Trail, Suite 200
Deerfield Beach, FL 33442
954-421-1700 CGC052820

SEAWALL FOR:
HAMUY RESIDENCE
1017 GRAND COURT
HIGHLAND BEACH, FL

DATE	NOTES/REVISIONS
8/11/2023	Corrections 1

SCALE: AS NOTED
DATE: 7/3/2023

JOB No: 19-2165

SHT 6

6 of 7

1. Construction to follow the Florida Building Code 7th Edition (2020) and amendments as applicable and all Local, State and Federal Laws.
2. Licensed contractor shall verify the existing conditions prior to the commencement of the work. Any conflicts or omissions between existing conditions or the various elements of the working drawing shall be brought to the attention of the Engineer prior to the commencement of the work. The Licensed Contractor and all subcontractors are responsible for all lines, elevations, and measurements in connection with their work.
3. Do not scale drawings for dimensions.
4. Any deviation and/or substitution from the information provided herein shall be submitted to the Engineer for approval prior to commencement of work.
5. All unanticipated or unforeseen demolition and/or new construction conditions which require deviation from the plans and notes herein shall be reported to the Engineer prior to commencement of work.
6. All new work and/or materials shall conform to all requirements of each administrative body having jurisdiction in each appertaining circumstance.
7. All new materials and/or patchwork shall be provided to match existing materials and/or adjoining work where practical except as specifically noted herein.
8. Licensed Contractor shall use all possible care to protect all existing materials, surfaces, and furnishings from damage during all phases of construction.
9. Licensed Contractor to verify location of existing utilities prior to commencing work.
10. The Licensed contractor to install and remove all shoring and bracing as required for the proper execution of the work.
11. Licensed Contractor to obtain all permits as necessary from all Local, State, and Federal agencies.
12. Turbidity barriers to be marked with site contractor's company name using permanent markings no smaller than 3 inches in height on the top of the barrier.

1. Concrete shall conform to ACI 318-14 and shall be regular weight, sulfate resistant, with a design strength of 5000 psi at 28 days with a maximum water-cementitious materials ratio, by weight aggregate concrete of 0.40.
2. Owner shall employ and pay for testing services from an independent testing laboratory for concrete sampling and testing in accordance with ASTM.
3. Licensed contractor is responsible for the adequacy of forms and shoring and for safe practice in their use and removal.
4. Concrete cover shall be 3" unless otherwise noted on the approved drawings.
5. Reinforcing steel shall be in conformance with the latest version of ASTM A615 Grade 60 specifications. All reinforcement shall be placed in accordance with ACI 315 and ACI Manual of Standard Practice.
6. Splices in reinforcing bars shall be not be less than 48 bar diameters and reinforcing shall be continuous around all corners and changes in direction. Continuity shall be provided at corners or changes in direction by bending the longitudinal steel around the corner 48 bar diameters.
7. Defective, cracked or loose concrete areas must be cut out, the rebar must be cleaned, coated with zinc and repaired with at least 3" of epoxy-concrete mix or gunnite concrete with sulfate-resistant cement.
8. For cap overpours, dowel and epoxy #5 bars or L-bars into top and/or front of existing cap, staggered @ 24" o.c., min. 4" embedment.

1. Contractor of record and permit holder responsible for all shoring. Until provisions for permanent support have been made, all excavations shall be properly guarded and protected so as to prevent them from becoming dangerous to life and property and shall be sheet piled, braced and/or shored, where necessary, to prevent the adjoining earth from caving in; such protection to be provided by the person causing the excavation to be made. All excavations shall comply with the minimum requirements of the Florida Building Code, and Florida Statute 553.60, "Trench Safety Act," and 29-cfr1926-650 (p) "Occupational Safety and Health Administration Excavation Safety Act."

1. Piles shall be driven using an approved cushion block consisting of material so arranged so as to provide the transmission of hammer energy.
2. Piles shall be driven to a minimum allowable bearing capacity of 10 tons for wood, and 25 tons for concrete, and 5 tons for pin piles, a minimum of 8' into berm or refusal.
3. Piles shall be driven with a drop hammer or gravity hammer provided the hammer shall weight no less than 3,000 pounds, and the fall of the hammer shall not exceed 6'.
4. Piles shall be driven with a variation of not more than $\frac{1}{4}$ inch per foot from the vertical, or from the batter line indicated, with a maximum variation of the head of the pile from the position shown on the plans of not more than three inches.
5. Where piling must penetrate strata offering high resistance to driving, the structural engineer of record or special inspector may require that the piles be set in pre-drilled or punched holes. The piles shall reach their final penetration by driving.

1. Concrete piles shall attain 5000 psi compressive strength in 28 days.
2. Concrete piles shall be reinforced with four - $\frac{7}{16}$ " \varnothing lo-lax strands, 270 kips, and 5 ga. spiral ties.
3. Concrete piles shall be 12"x12" square, minimum length of 20'.
4. Concrete piles shall be cut to leave strands exposed a min. of 18" and tied to dock or cap steel.
5. For all prestressed pilings, extend pilings strands a min. of 18" into cap/dock slab steel or cut strands even w/ top of pilings & dowel & epoxy (2) #5 L-bars, 12" long w/ 12" bend, into top of pilings, w/ a min. of 4" embedment.
6. New batter and vertical pilings and panels to have a minimum 4" penetration into the new cap form. New dock pilings to have a minimum 3" penetration into the new dock slab form.

1. Wood piles to be 2.5lb CCA treated in accordance with AWWA Standard C18.
2. Wood piles shall be a minimum diameter of 10"; Miami Dade County requires minimum diameter of 12".

1. All materials to be pressure treated pine unless otherwise noted.
2. All frame work materials to be Southern Yellow Pine Grade #1, Fb=1200 PSI and Fv=175 PSI.
3. All decking materials to be grade #1 unless otherwise noted.
4. All hardware to be Stainless Steel or Galvanized unless otherwise noted.



HIGHLAND BEACH
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7 of 7