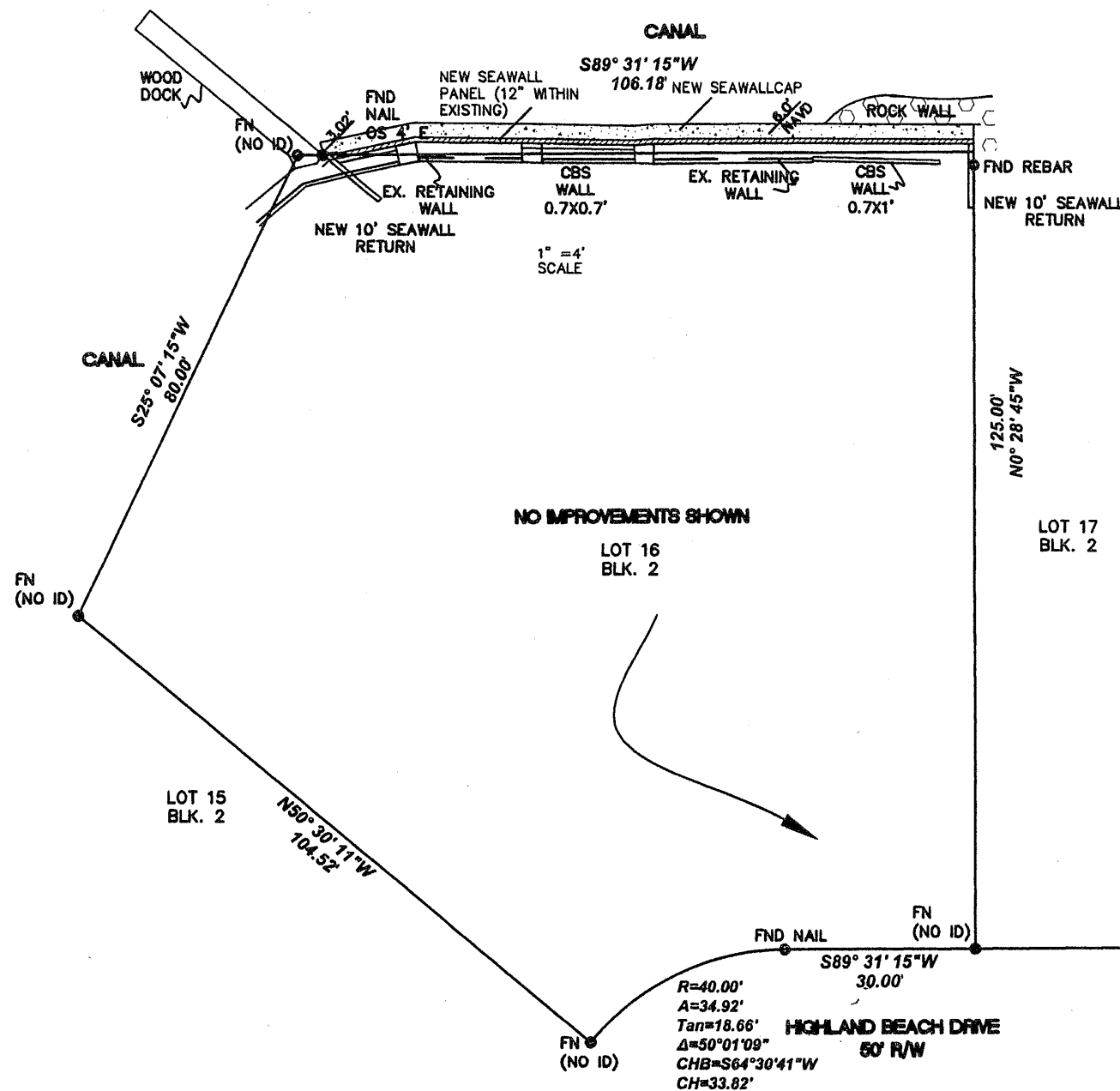


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NOV 28 2023

HIGHLAND BEACH
BUILDING DEPARTMENT



Owner: Hochbaum
 1101 Highland Beach Drive Unit A
 Highland Beach FL
 Contractor: Qualmann Marine

Engineer: Alan W. Garcia, P.E.
 4202 NW 54th Street
 Coconut Creek, FL 33073

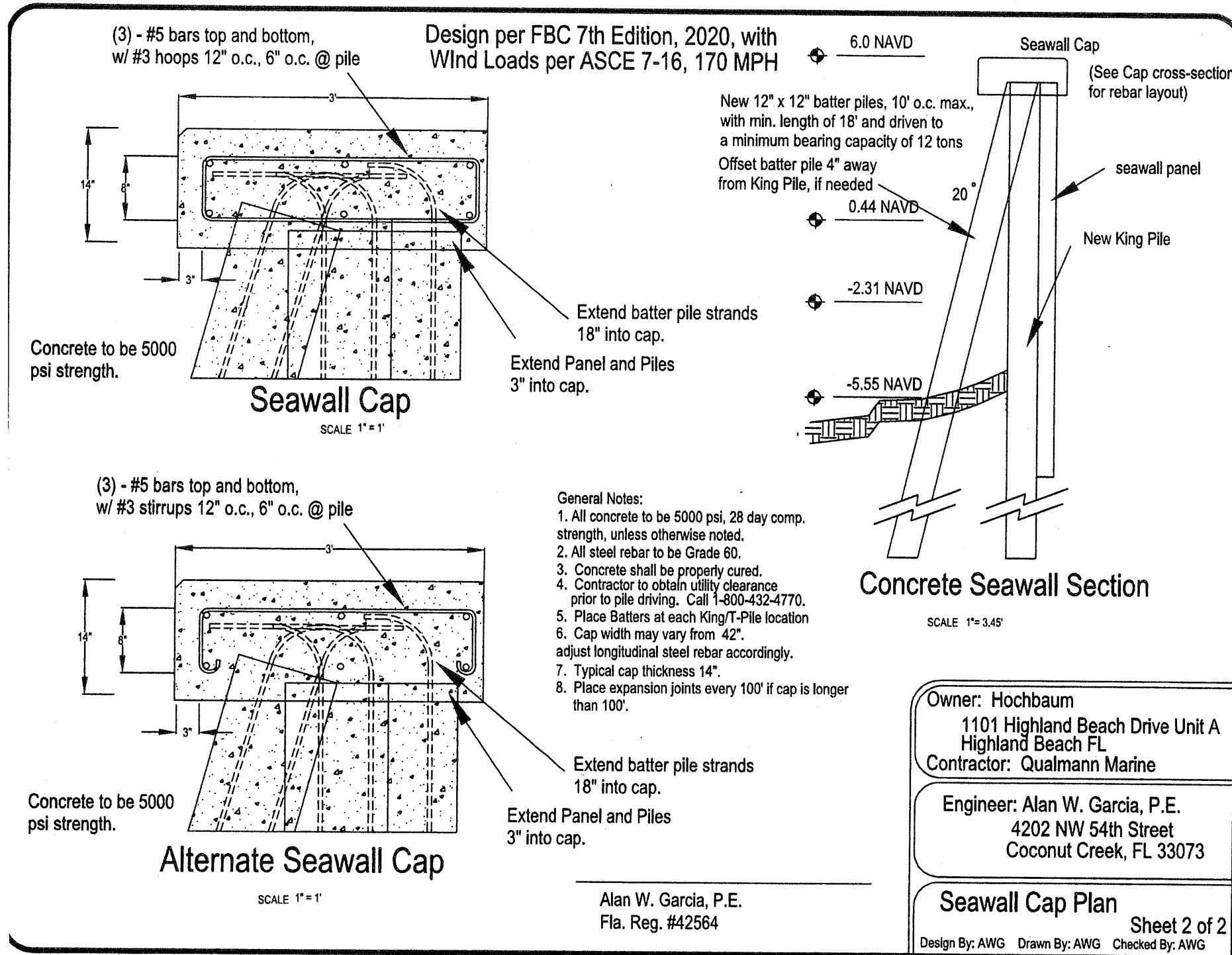
Seawall Cap Plan Survey
 Sheet 1 of 1
 Design By: AWG Drawn By: AWG Checked By: AWG

Alan W. Garcia
 ALAN W. GARCIA, P.E.
 FLA. REG. #42564

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HIGHLAND BEACH
BUILDING DEPARTMENT

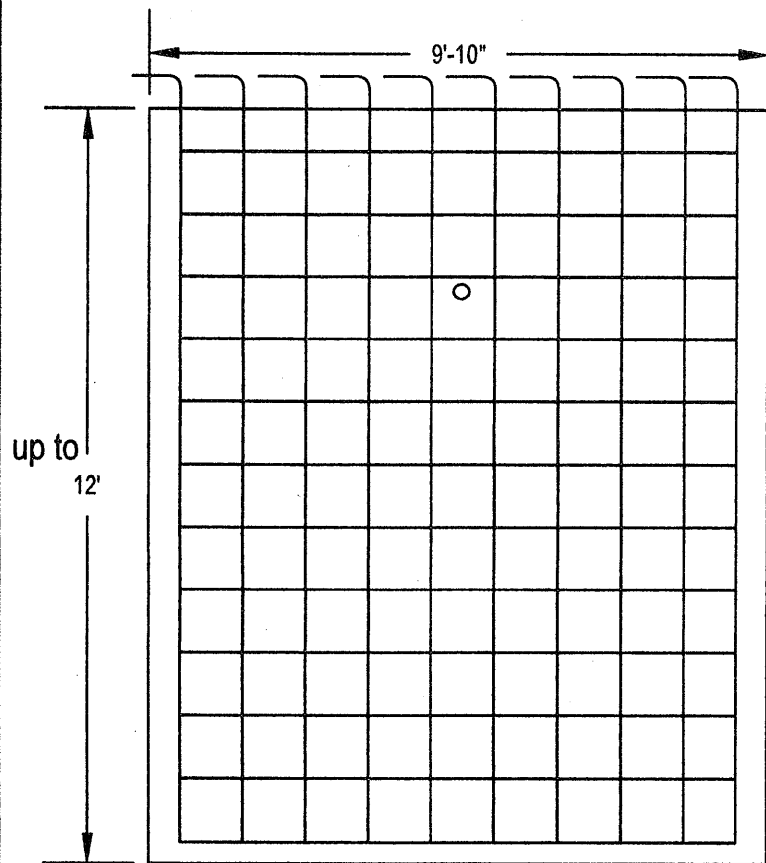


Alan W. Garcia
11/28/23
Alan W. Garcia, PE
Fla Reg. #42564
4202 NW 54th Street
Coconut Creek, FL 33073
(954) 304-0098

General Notes:

1. All concrete to be 5000 psi, 28 day comp. strength, unless otherwise noted.
2. All steel rebar to be Grade 60.
3. Concrete shall be properly cured.
4. Contractor to obtain utility clearance prior to pile driving. Call 1-800-432-4770.
5. Place Batters at each King/T-Pile location
6. Cap width may vary from 42". adjust longitudinal steel rebar accordingly.
7. Typical cap thickness 14".
8. Place expansion joints every 100' if cap is longer than 100'.

Design per FBC 7th Edition, 2020, with Wind Loads per ASCE 7-16, 170 MPH



Typical 8" Thick Seawall Panel

SCALE
1" = 3.80'

Std. Hook in vertical bar.

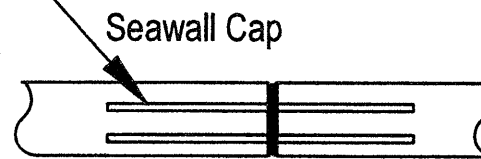
#5 Rebar 12" o.c vertical. 12" o.c. horizontal. Side cover 6", top/bottom 4".

One 3" weephole, placed middle inside panel edge, 2'-10" below top.

Provide two 3/4" lifting hooks in top of panel or 1/4" s.s. cable for lifting.

3/4" dowel, 3' long, (4). Each corner of cap rebar cage. Greased to allow expansion.

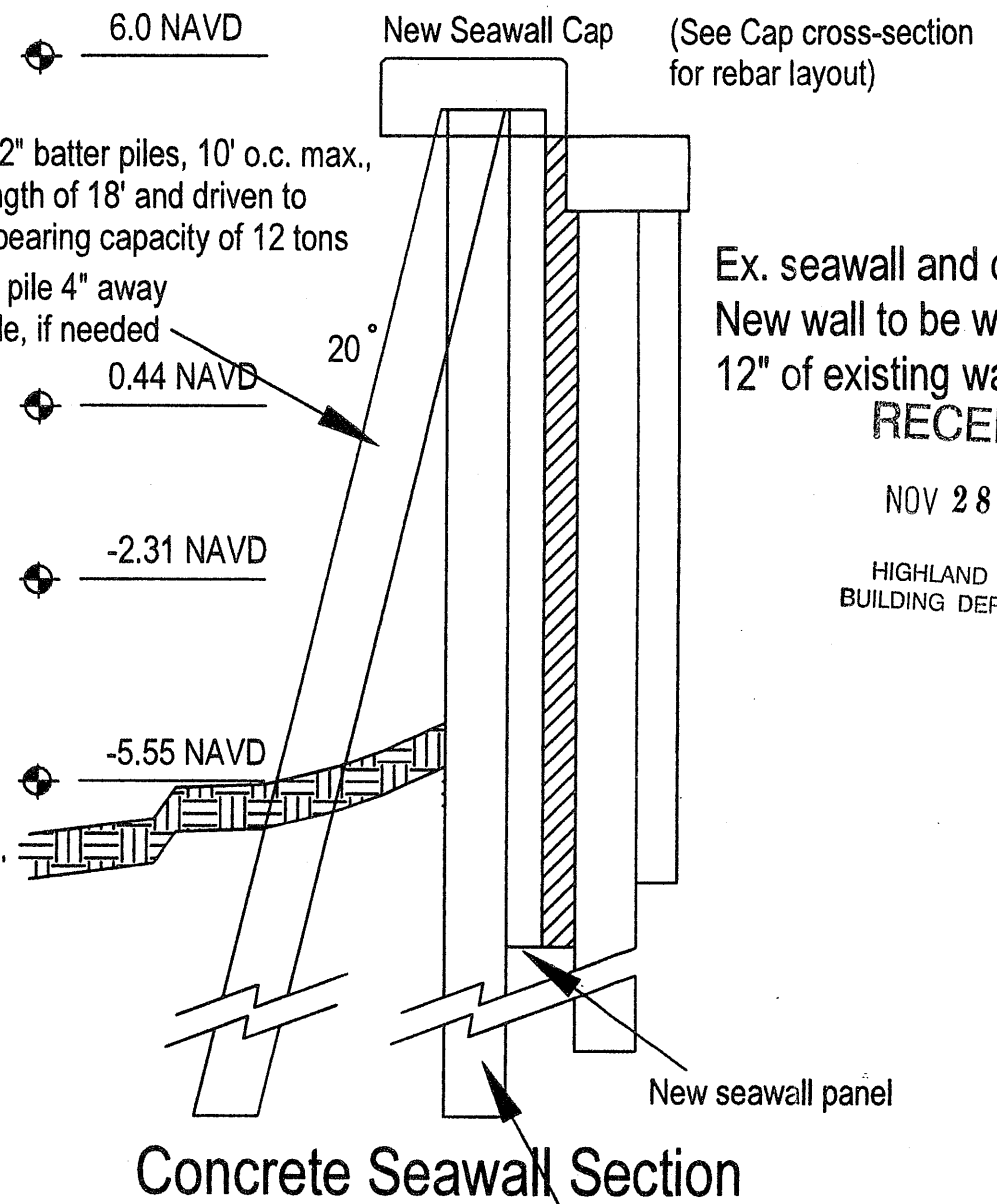
Note: Place exp. jt @ midway, approximately, every 90 l.f. +/-.



Exp. Joint Detail

SCALE
1"=3.23'

Alan W. Garcia, P.E.
Fla. Reg. #42564



Concrete Seawall Section

SCALE
1" = 3.80'

New 12" x 12" king piles, 10' o.c. max., with min. length of 18' and driven to a minimum bearing capacity of 12 tons

Ex. seawall and cap
New wall to be within
12" of existing wall
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HIGHLAND BEACH
BUILDING DEPARTMENT

Owner: Hochbaum
1101 Highland Beach Drive Unit A
Highland Beach FL
Contractor: Qualmann Marine

Engineer: Alan W. Garcia, P.E.
4202 NW 54th Street
Coconut Creek, FL 33073

Seawall Panel Plan

Sheet 2 of 2

Design By: AWG Drawn By: AWG Checked By: AWG

Alan W. Garcia
11/28/23

General Notes:

1. All concrete to be 5000 psi, 28 day comp. strength, unless otherwise noted.
2. All steel rebar to be Grade 60.
3. Concrete shall be properly cured.
4. Contractor to obtain utility clearance prior to pile driving. Call 1-800-432-4770.

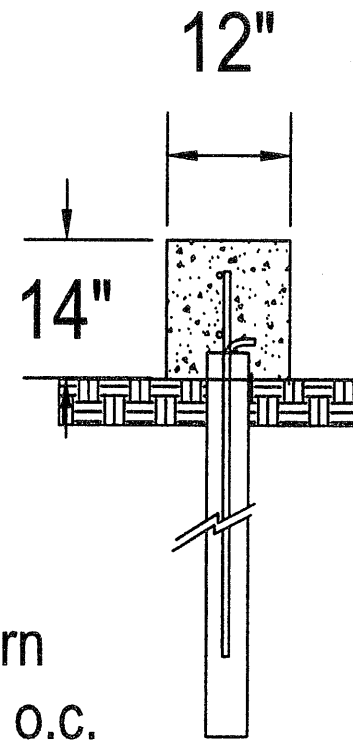
Design per FBC 7th Edition, 2020, with
Wind Loads per ASCE 7-16, 170 MPH

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NOV 28 2023

HIGHLAND BEACH
BUILDING DEPARTMENT

3" galv. sched 40 steel
pin pile driven to refusal
w/ #5 hook bar and grout
filled . Min. 3" into cap return
Max spacing of pin pile 10' o.c.



#5 vert. 12" o.c.
and (2) #5 cont.

Concrete Seawall Return

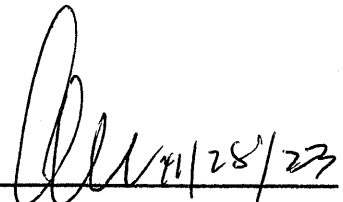
SCALE
1" = 2'

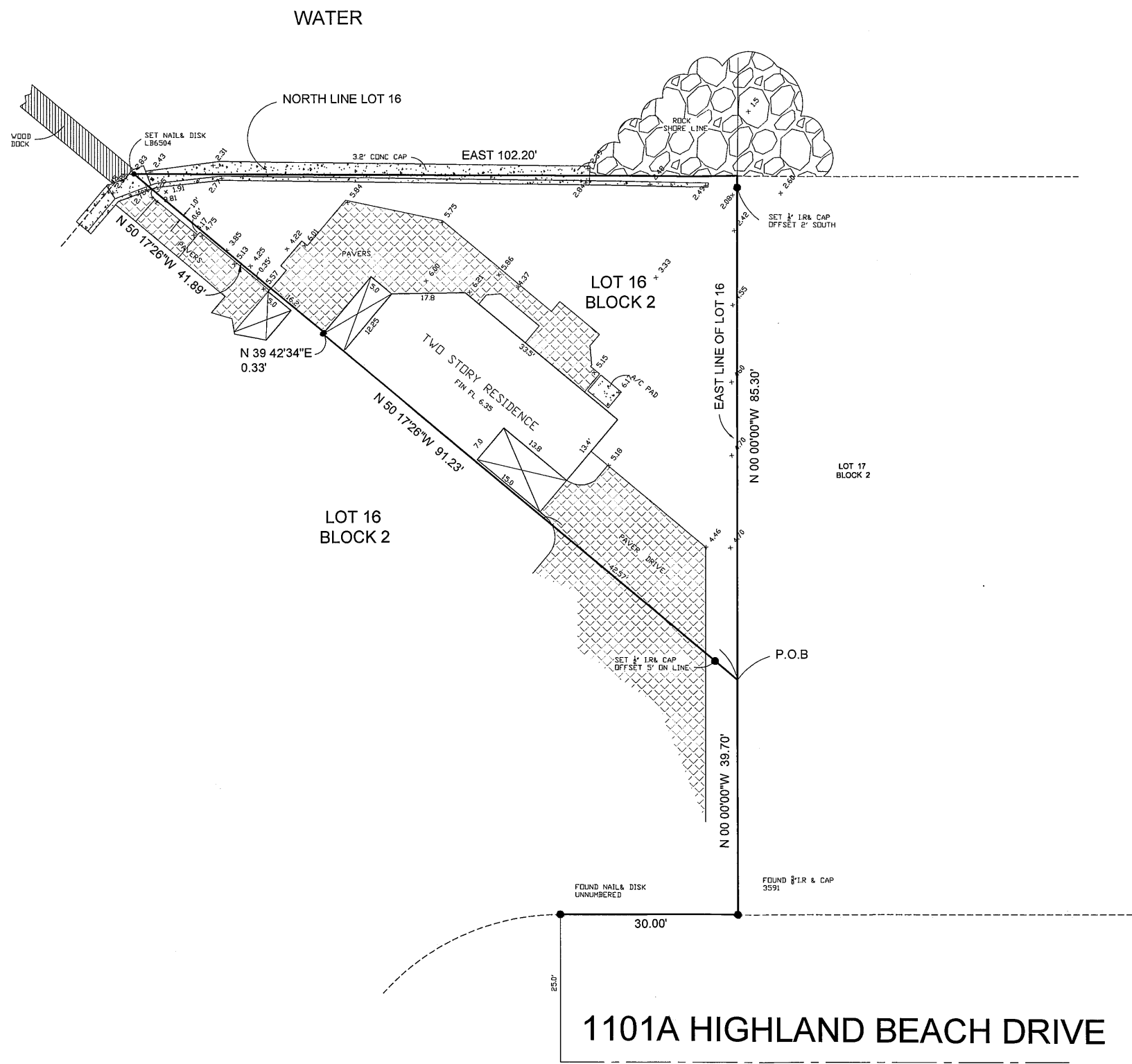
Owner: Hochbaum
1101 Highland Beach Drive Unit A
Highland Beach FL
Contractor: Qualmann Marine

Engineer: Alan W. Garcia, P.E.
4202 NW 54th Street
Coconut Creek, FL 33073

Seawall Return Detail

Design By: AWG Drawn By: AWG Checked By: AWG


Alan W. Garcia, P.E.
Fla. Reg. #42564

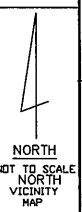
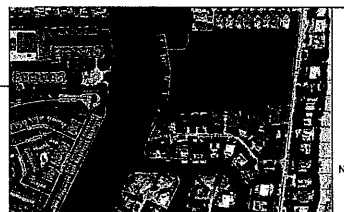


PARCEL "A", A PARCEL OF LAND LYING IN SECTION 4, TOWNSHIP 47 SOUTH, RANGE 43 EAST, HIGHLAND BEACH, FLORIDA, BEING A PORTION OF LOT 16, BLOCK 2, BEL LIDO, AS RECORDED IN PLAT BOOK 25, PAGE 97 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE AFOREMENTIONED LOT 16, THENCE WITH AN ASSUMED BEARING OF NORTH ALONG THE EAST LINE OF 16, A DISTANCE OF 39.70 FEET TO THE POINT OF BEGINNING; THENCE WITH A BEARING OF NORTH 50 DEGREES, 17 MINUTES, 26 SECONDS WEST, A DISTANCE OF 91.23 FEET TO A POINT; THENCE WITH A BEARING OF NORTH 39 DEGREES, 42 MINUTES, 34 SECONDS EAST, A DISTANCE OF 0.33 FEET TO A POINT; THENCE WITH A BEARING OF NORTH 50 DEGREES, 17 MINUTES, 26 SECONDS WEST A DISTANCE OF 41.89 FEET TO A POINT LYING ON THE NORTH LINE OF LOT 16, THENCE EAST A DISTANCE OF 102.20 FEET TO THE NORTHEAST CORNER OF LOT 16; THENCE WITH A BEARING OF SOUTH ALONG THE EAST LINE OF LOT 16, A DISTANCE OF 85.30 FEET, MORE OR LESS TO THE POINT OF BEGINNING.

- NOTES:**
- 1) BEARINGS SHOWN HEREON ARE ASSUMED
 - 2) NO ABSTRACT OR TITLE SEARCH WAS PERFORMED TO DISCOVER THE EXISTENCE OF ANY EASEMENTS OR RESTRICTIONS OF RECORD.
 - 3) ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988 ALL ELEVATION SHOWN HEREON ARE RELATIVE THERETO
 - 4) NO BELOW GROUND IMPROVEMENTS, FOOTERS, FOUNDATIONS OR UTILITIES HAVE BEEN LOCATED OR SHOWN ON THIS SURVEY.

D.R.B. = official record book C.B.S. = concrete block structure P.C.C. = point of compound curve P.C.P. = permanent control point P.I.C. = point of intersection P.B. = point of beginning D/E = drainage easement C.M.P. = corrugated metal pipe R.L.S. = registered land surveyor L.B. = licensed business	TRAN. = transformer pad F.P.&L. = Florida power and light C.N. = concrete monument P.R.C. = point of reverse P.I. = point of intersection P.T. = point of tangency V.P.F. = wood privacy fence CHATT = chattahoochee ELEV = elevation	P.B. = plot book TYP. = typical R/O/W = right-of-way Δ = central angle B.B.L. = bearing basis line RSPH = asphalt HJ = manhole U/E = utility easement CLF = chain link fence P.R.M. = permanent reference monument	P = plat E = power pole H = MEASURED I.P. = IRON PIPE R.P. = radius point L = ABS. LENGTH C.L. = centerline ALUM = aluminum P.C. = point of curvature	P.G. = page I.R. = iron rod R = radius D = deed D/S = offset C.M.C. = concrete E.S.M.T. = easement CALC. = calculated
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	801 S.E. 6th Ave., Suite 203 Delray Beach, FL 33483	Phone 61-243-4624 Fax 243-4869	CERTIFIED TO:
	AUTHORIZATION NUMBER LB6504	FLOOD ZONE: 12099C0989F	MAP NO: AE ELEV 6 MAP DATE: 10-5-2017 DATE: 2-2-2023 JOB NO. 1-23-057 REVISED:
I HEREBY CERTIFY THAT THE SKETCH OF SURVEY SHOWN HEREON MEETS THE STANDARDS OF PRACTICE FORTH IN CHAPTER 53-17-050-052, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, F.L.C.			NDT VALID UNLESS SEALED WITH EMBOSSED SURVEYOR'S SEAL
HARRY A BURGESS PLS 5089			Date: 2023.07.12 08:12:59