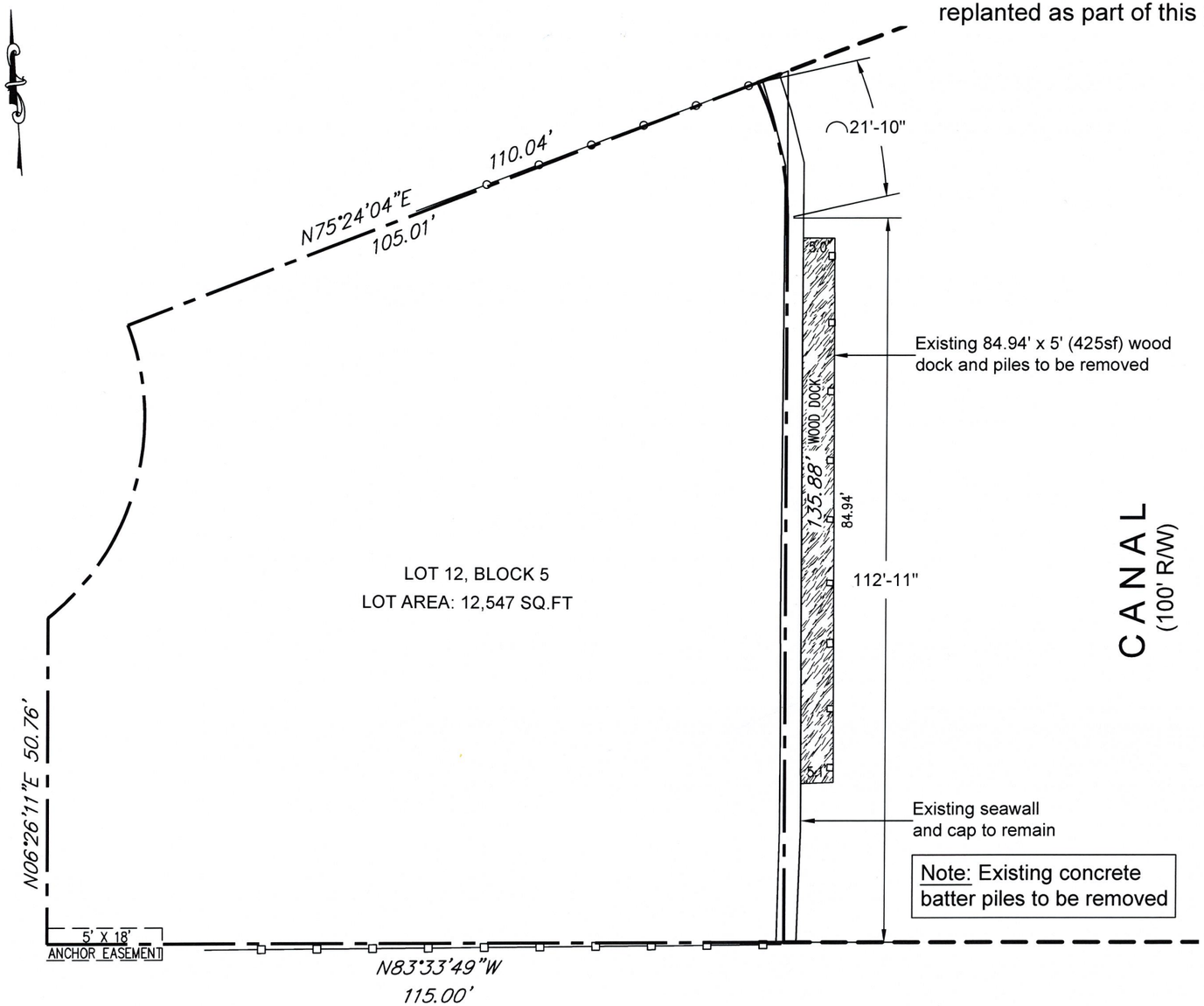
No tree will be removed or replanted as part of this permit

See attached survey supplied by owner for exact property information.



Existing Site Plan

Scale: 1" = 20'

PROPERTY DETAIL

LOCATION ADDRESS	4203 TRANQUILITY DR
MUNICIPALITY	HIGHLAND BEACH
PARCEL CONTROL NUMBER	24-43-47-04-02-005-0120
SUBDIVISION	BEL LIDO IN
OFFICIAL RECORDS BOOK/PAGE	35009 / 745
SALE DATE	APR-2024
LEGAL DESCRIPTION	BEL LIDO LT 12 BLK 5

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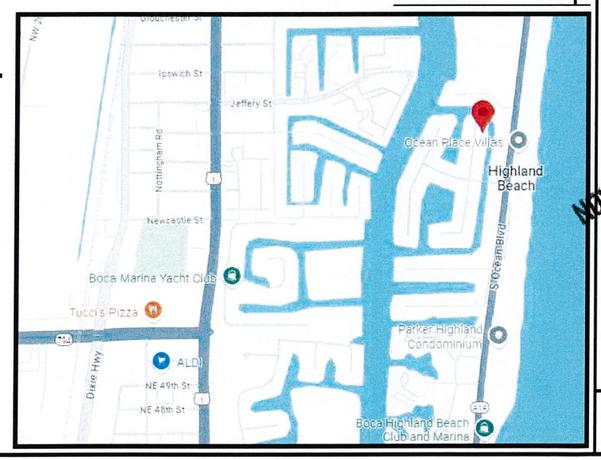
Location Map



Consultant

UNLIMITED PERMIT SERVICES, INC
Marine Design & Consulting
902 NE 1st Street #2
Pompano Beach, FL 33060
(954) 532-0129
Office@unlimitedps.net

Project Engineer

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, FL 33060
Ofc: 954-532-0129
WWW.MwEngineering.net

Contractor

RAY QUALMANN MARINE CONSTRUCTION, INC
2860 NE 16 Street
Pompano Beach, FL 33062
(954) 941-0132

Project Information

New Seawall / New Dock
Robert Hammond
4203 Tranquility Drive
Highland Beach, FL 33487

DATE
9-26-24

MARK E. WEBER LICENSE No. 53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

NOV - 1 2024

MARK E. WEBER, P.E.
LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 954-532-0129
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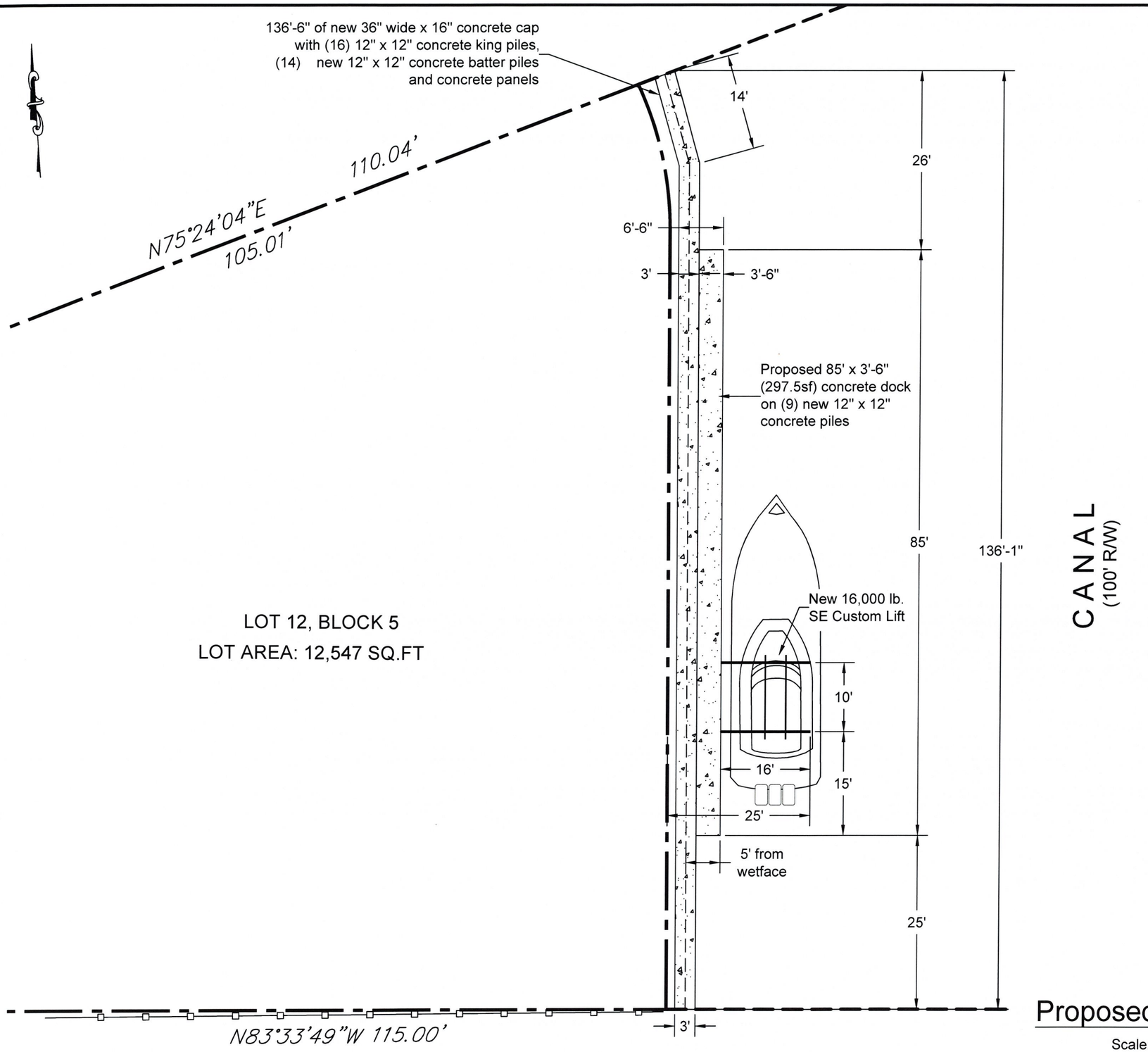

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Proposed Site Plan

Scale: 1" = 15'

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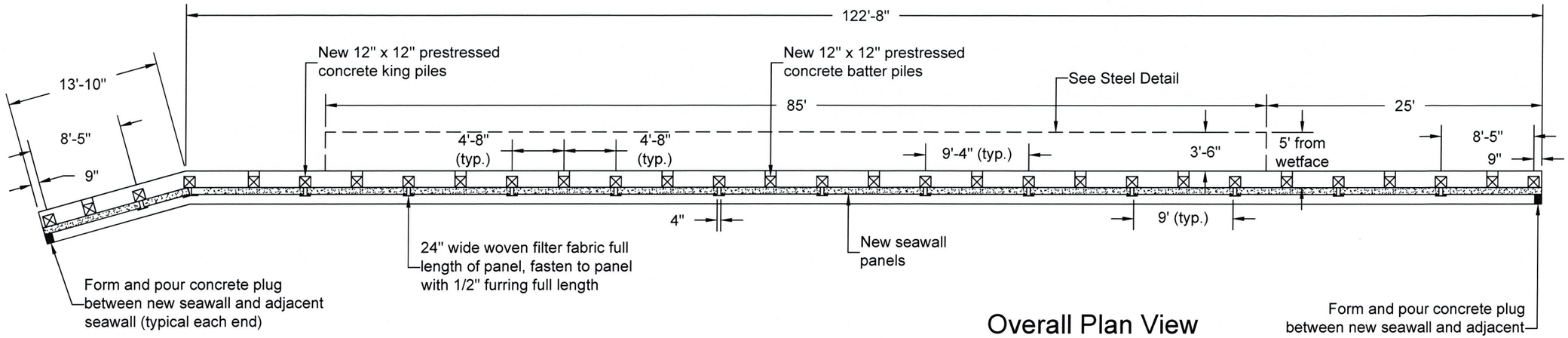
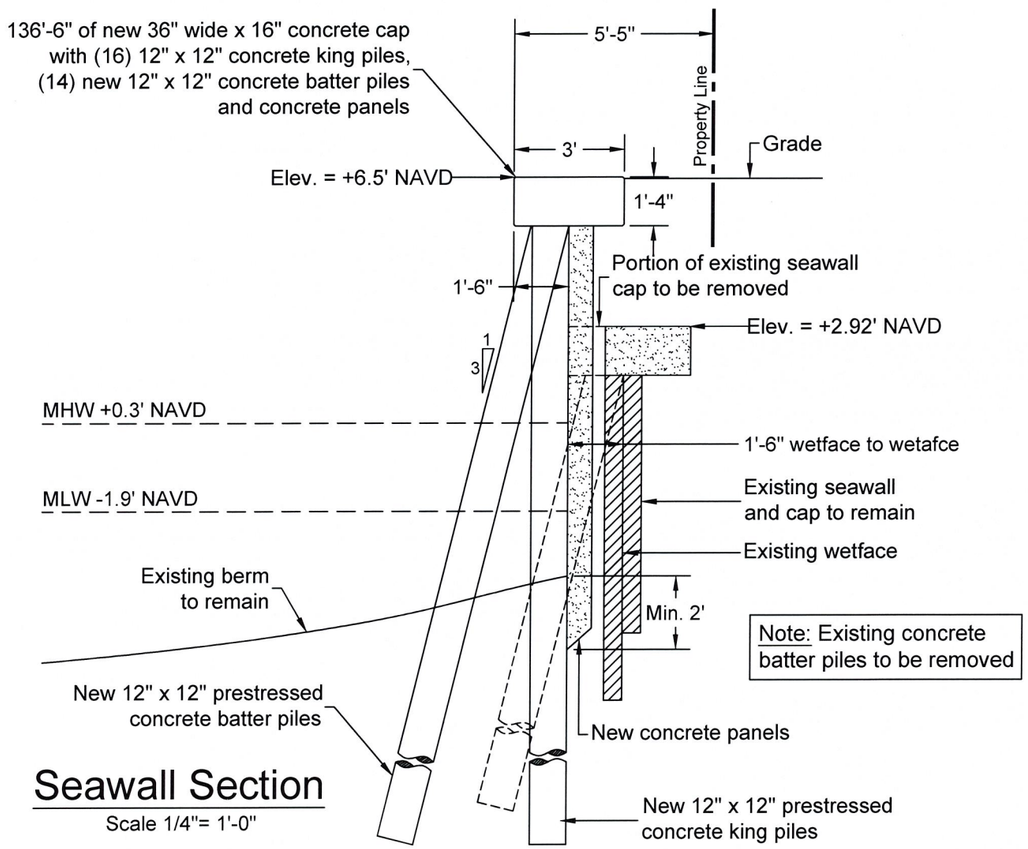


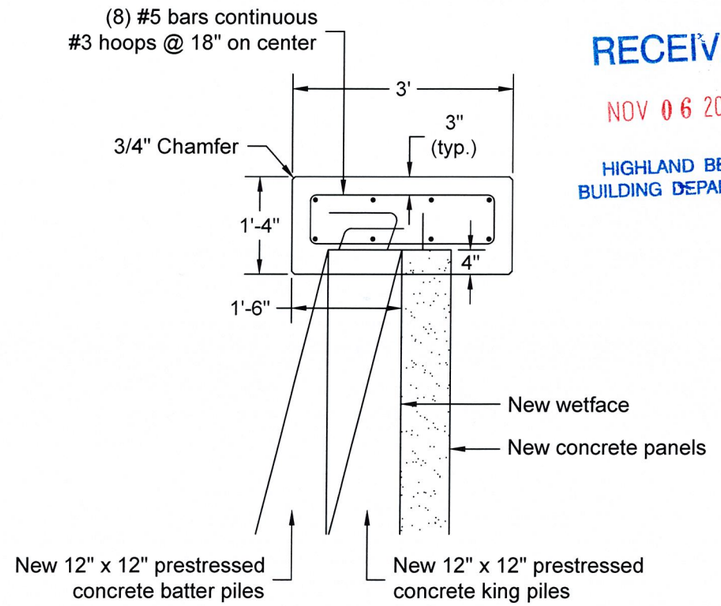
Overall Plan View

Scale: 1' = 10'-0"



Seawall Section

Scale 1/4"= 1'-0"



Cap Steel Detail

Scale: 1/2" = 1'-0"

Contractor
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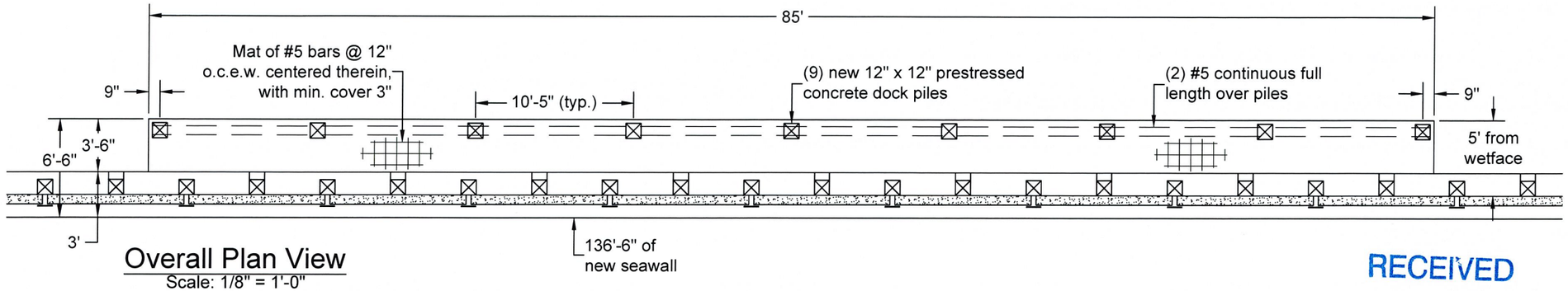
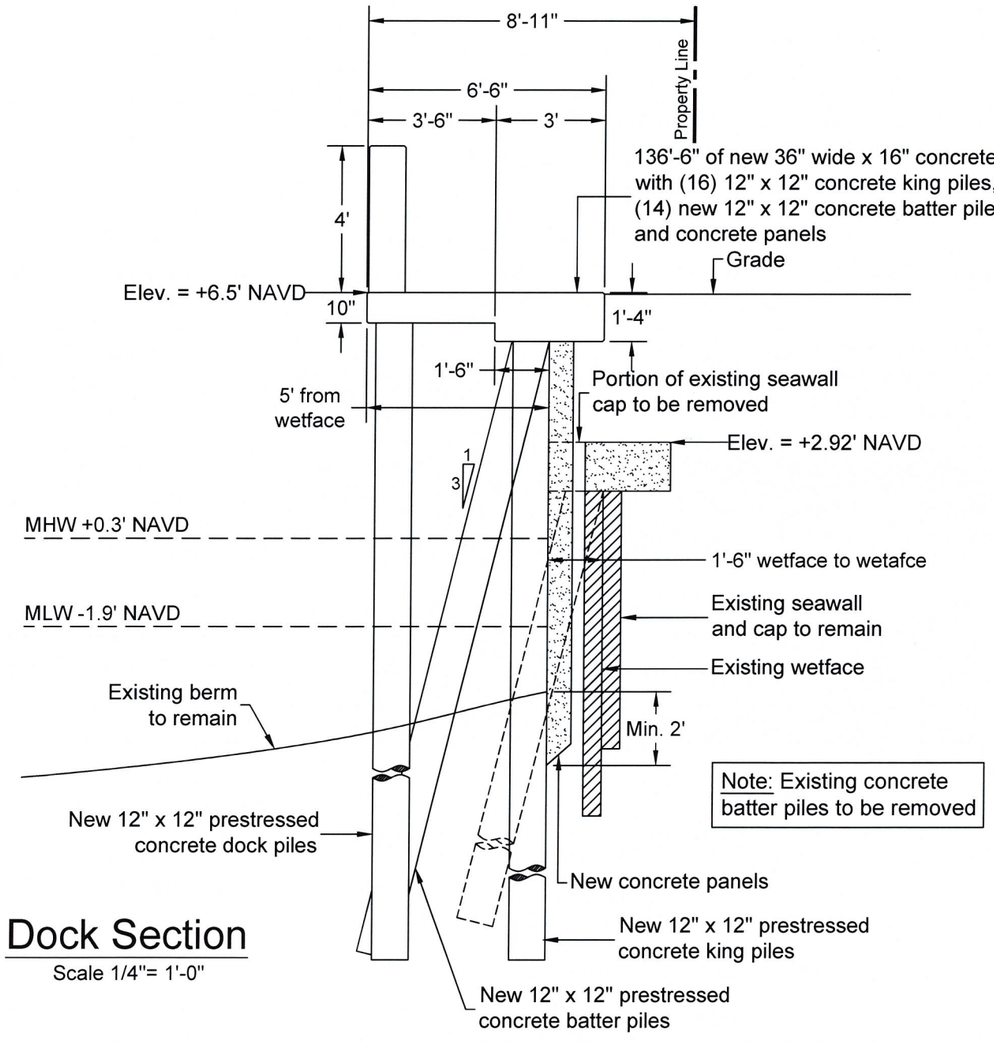


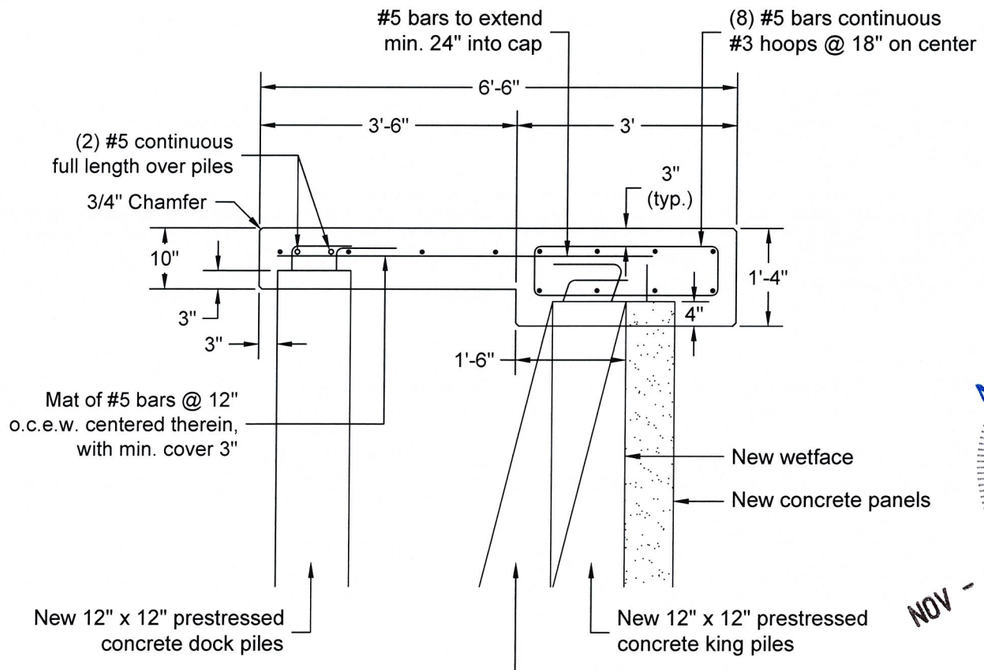
Overall Plan View

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



Dock Section

Scale 1/4"= 1'-0"



Dock Steel Detail

Scale: 1/2" = 1'-0"

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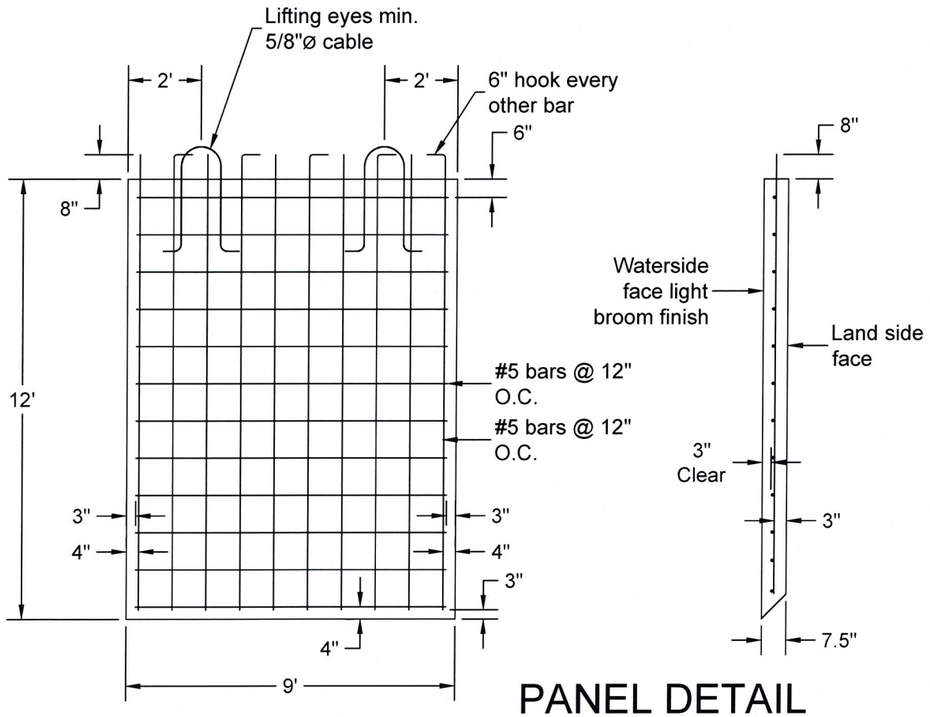
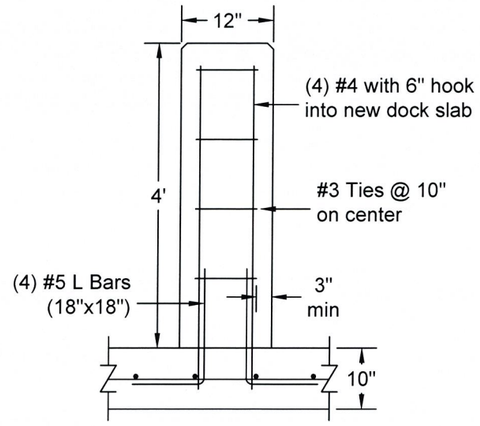


PANEL DETAIL

Scale 1/4"= 1'-0"



Column Detail

Scale: 1/4" = 1'-0"

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

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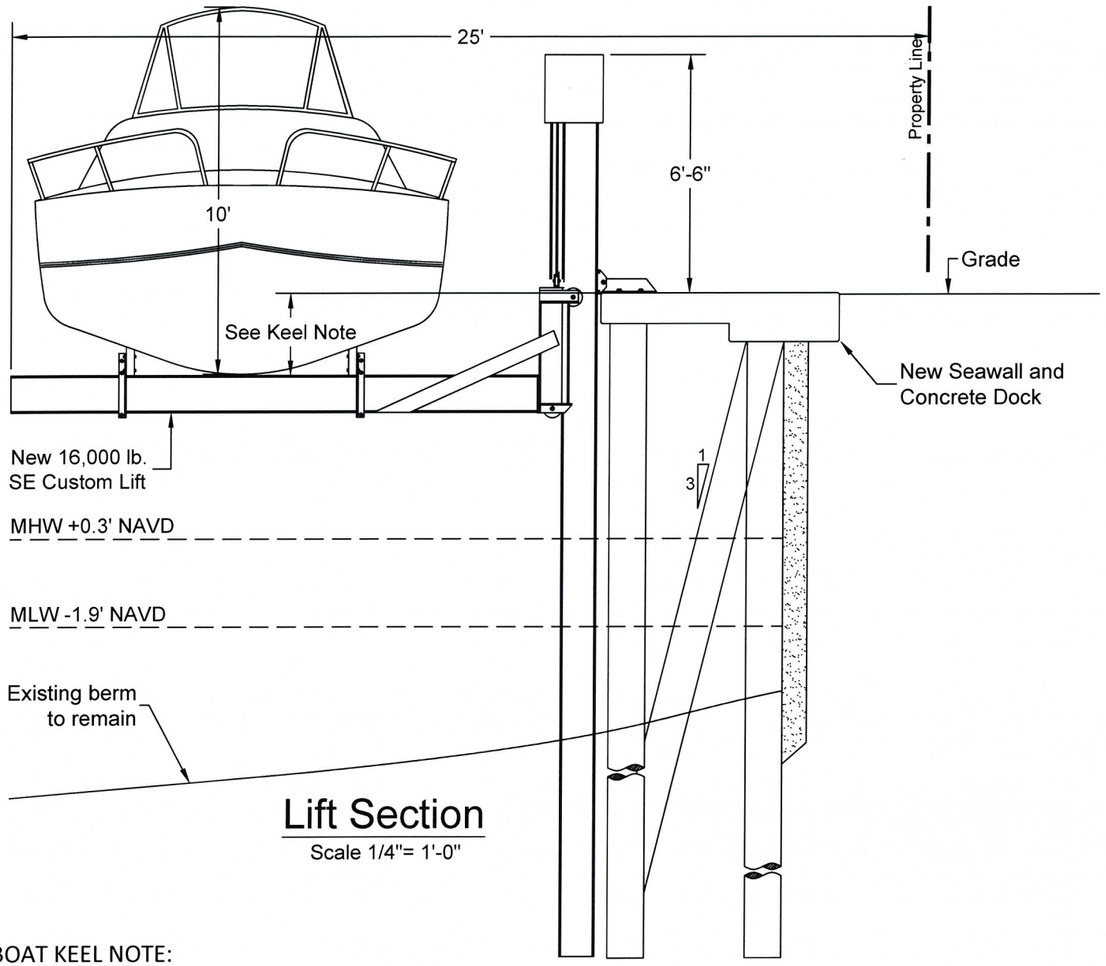

Lift Section

Scale 1/4"= 1'-0"

For Illustrative Purposes - Boat May Change

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BUILDING DEPARTMENT

BOAT KEEL NOTE:

Boat Keel to be a maximum of one foot above the minimum seawall elevation when lifted.

Boat lift means the bottom of the keel of any boat shall not be hoisted greater than one foot above the minimum seawall elevation.

In no case shall the lift be higher than the superstructure of the boat when lifted.

NOTE:

Height of superstructure of boat when lifted shall be c
with boatlift definition is Sec. 30-131 - Definitions of te

*Boat lifts means the bottom of the keel of any boat sh
hoisted greater than one foot above the minimum sea
elevation. In no case shall the lift be higher than the su
of the boat when lifted.*

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MARK E. WEBER, P.E.
LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060

DATE	Consultant	Project Engineer	Contractor	Project Information
	UNLIMITED PERMIT SERVICES, INC *902 NE 1st Street #2* *Pompano Beach, FL 33060* *(954) 532-0129*	**MW ENGINEERING, INC** *902 NE 1 Street Suite #2* *Pompano Beach, FL 33060* *Ofc: 954-532-0129*	**RAY QUALMANN MARINE CONSTRUCTION, INC** *2860 NE 16 Street* *Pompano Beach, FL 33062* *(954) 941-0132*	**New Seawall / New Dock** Robert Hammond *4203 Tranquility Drive* *Highland Beach, FL 33487*

GENERAL NOTES:

1. Construction to follow the Florida Building Code 8th Edition (2023) 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 to 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.

PILE DRIVING:

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, 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.

CONCRETE NOTES:

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. Fiber Reinforced Polymer (FRP) Reinforcing Bars may be used in lieu of reinforcing steel. FRP shall meet FDOT specification 932-3.1 - Use only solid, round, thermoset basalt fiber reinforced polymer (BFRP), glass fiber reinforced polymer (GFRP) or carbon fiber reinforced polymer (CFRP) reinforcing bars from producers currently on the FDOT's Production Facility Listing.
7. 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.
8. 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 expoxy-concrete mix or gunnite concrete with sulfate-resistant cement.

PILE NOTES:

1. Concrete piles shall attain 6000 psi compressive strength in 28 days.
2. Concrete piles shall be reinforced with four - $\frac{7}{16}$"Ø 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 or drill and epoxy (2) #5 12"x18" hook bars 6" into pile.

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Consultant
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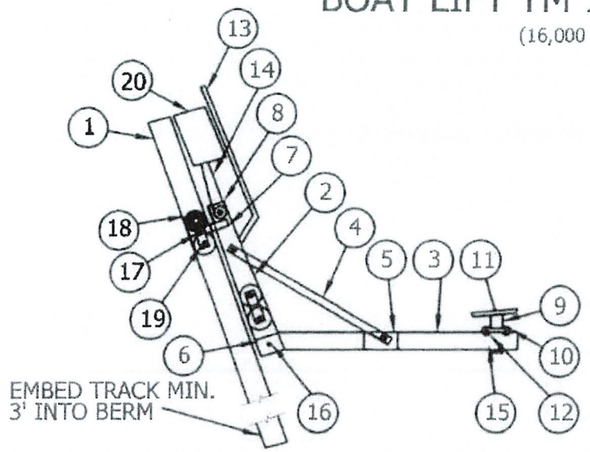
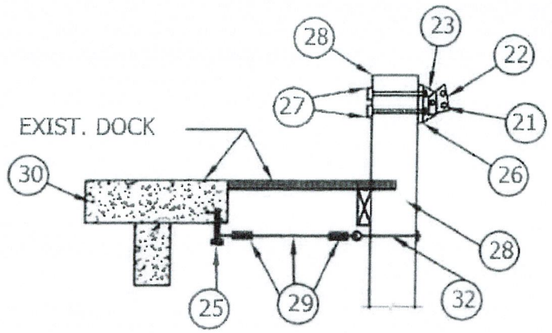
BOAT LIFT TM 16,000 SE CUSTOM LIFT

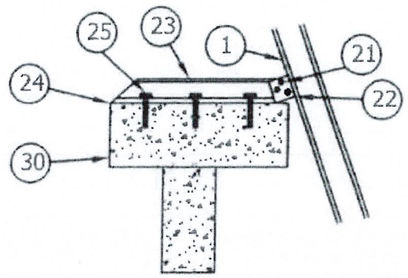
(16,000 lb LIFT) N.T.S.



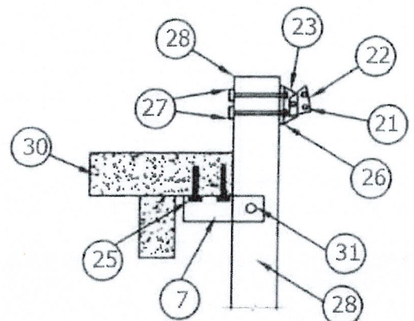
PROFILE VIEW OF ELEVATOR LIFT
N.T.S.



INSTALLATION DETAIL "B"
N.T.S.



INSTALLATION DETAIL "A"
N.T.S.



INSTALLATION DETAIL "C"
N.T.S.

	16000
1	I-Beam 10"x 8.65 lb/ft
2	10" x 6.00" AS Channel
3	I-Beam 8"x 6.18 lb/ft
4	1/2" x 3" x 58" flat stock
5	1/2" x 7 3/4" x 12" flat plate
6	3/8" x 3" x 4" x 12" angle
7	3/8" x 3" x 6" x 13 1/2" angle
8	Pulley Box
9	4" x 1.58 x 12" Channel
10	1/2" x 4" x 6" Alum. mounting plate
11	Aluminun Or Wood Bunks
12	(4) 1/2" SS bolts and clips
13	2 1/2" PVC Sch. 40 pipe
14	3/8" SS Cable
15	1/2" x 4 1/2" SS bolt and nut
16	3/8" x 3" SS bolt and nut
17	7/8" x 2" SS bolt
18	6" and 8" wheel
19	1 3/16" Aluminum pin
20	1 HP Model 6500 Aqua motors
21	5/8" x 6" SS bolt,nut,lock washer
22	Track mounting clip
23	6061 T6 Aluminum Channel
24	1/2" x 12" x 16" Angle
25	5/8" SS wegde anchor bolts
26	Pile mount brackets
27	5/8" ThreadRod SS bolt,nut,lw,fw
28	10" Wood or Concrete pile
29	5/16" SS cable, Cable clamps
30	Existing seawall cap
31	5/8" x 6" Lag Bolt
32	EyeHook Welded to 5/8" Thread Rod nut,lw,fw

**CONTRACTOR HAS OPTION OF USING WOOD OR CONCRETE PILES IN AREAS WHERE REGULATORY POLICY APPLIES.

GENERAL NOTES:

1. ALL CONNECTIONS ARE WELDED UNLESS OTHERWISE NOTED.
2. ALL MATERIALS TO BE 6061 T6 UNLESS OTHERWISE NOTED.
3. ALTERNATIVE INSTALLATION W/ 30° ANGLE (PART #7)
4. CONTRACTOR TO OBTAIN UTILITY CLEARANCE

PRIOR TO PILE DRIVING. CALL 1-800-432-4770.

5. CONTRACTOR SHALL INSPECT EXIST. CONC. PILES FOR SPALLS & CRACKS
6. SHALL NOTIFY ENGINEER IN WRITING OF PILE DAMAGE OR DETERIORATION.
7. DESIGN PER FBC 6th EDITION, W/WIND LOADS PER ASCE 7-10, 170 MPH BROWARD COUNTY.
8. 9"-12" MIN. BUTT DIA. PILINGS, 10' EMBEDDMENT W/ 10 TON BEARING CAPACITY

OWNER: Hammond

ADDRESS: 4203 Tranquility Drive, Highland Beach

ALAN GARCIA, P.E.
LICENSE #42564
4202 NW 54TH STREET
COCONUT CREEK, FL 33073

S.E. CUSTOM LIFT SYSTEMS INC.

LEGEND

A.E. = ANCHOR EASEMENT
A/C = AIR CONDITIONER
C.B.S. = CONCRETE BLOCK STRUCTURE
C = CALCULATED
CH = CHORD
℄ = CENTERLINE
C/S = CONCRETE SLAB
CONC. = CONCRETE
D.E. = DRAINAGE EASEMENT
Δ = DELTA (CENTRAL ANGLE)
EL., ELEV. = ELEVATION
F.F. = FINISHED FLOOR
F.I.P. = FOUND IRON PIPE
F.I.R. = FOUND IRON ROD
L = ARC LENGTH
L.B. = LICENSED SURVEY BUSINESS
LS = LICENSED SURVEYOR
M = MEASURED
NO I.D. = NO IDENTIFICATION
N/A = NOT APPLICABLE

P.S.M. = PROFESSIONAL SURVEYOR AND MAPPER
NAVD'88 = NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD'29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929
P = PLAT
P.B.C. = PALM BEACH COUNTY
P.B. = PLAT BOOK
P.C. = POINT OF CURVATURE
P-K = PARKER KALON COMPANY
D= DEED
0.00'x= SPOT ELEVATION
P.R.C. = POINT OF REVERSE CURVATURE
PG. = PAGE
R = RADIUS
R/W = RIGHT OF WAY
U.E. = UTILITY EASEMENT
C.L.F.= CHAINLINK FENCE
℄ = PROPERTY LINE
ø = DIAMETER
B.L. = BUILDING LINE

SYMBOL

- WATER METER
- UTILITY POLE
- FIRE HYDRANT
- ELECTRIC BOX
- WATER VALVE
- CATCH BASIN
- ELECTRIC HAND HOLE
- ANCHOR
- TELEPHONE BOX
- SANITARY BOX
- IRRIGATION CONTROL VALVE
- ELECTRIC METER

OHW OVERHEAD WIRE LINE (OHW)
CHAIN LINK FENCE (C.L.F)
WOOD FENCE (W.F)
METAL FENCE (M.F)
PLASTIC FENCE (P.F)

BENCHMARK OF ORIGIN:
PALM BEACH COUNTY BENCHMARK NUMBER Z 233
ELEVATION: 16.020'(NAVD'88)

CERTIFIED TO:
ROBERT D. HAMMOND

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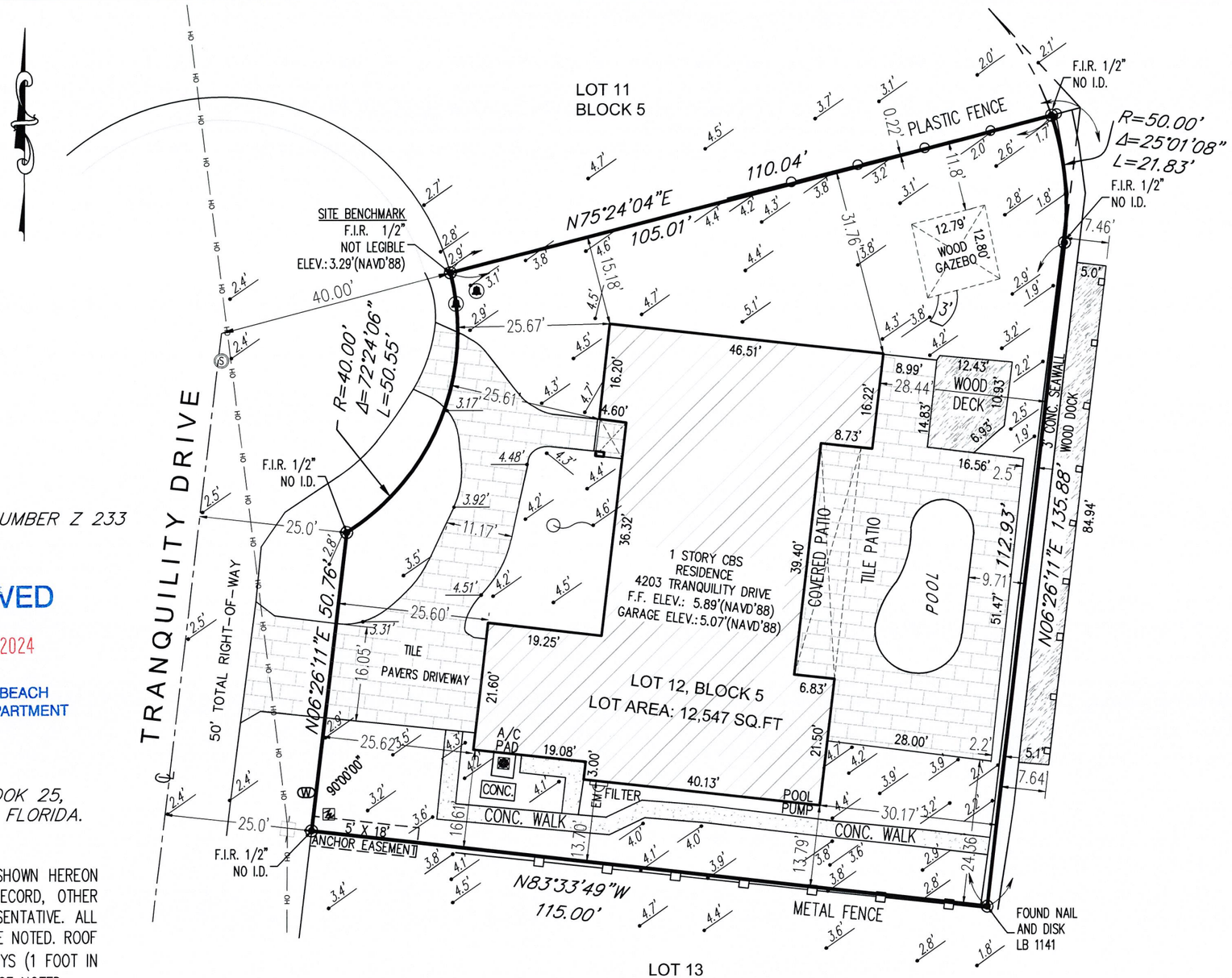
HIGHLAND BEACH
BUILDING DEPARTMENT

LEGAL DESCRIPTION:

LOT 12, BLOCK 5 "BEL LIDO",
ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 25,
PAGE 97, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

SURVEY NOTES:
LOCATIONS ARE LIMITED TO VISIBLE IMPROVEMENTS ONLY AS SHOWN HEREON. LANDS SHOWN HEREON WERE NOT ABSTRACTED BY THE SURVEYOR FOR EASEMENTS, RIGHT-OF-WAYS OF RECORD, OTHER RESTRICTIONS OR RESERVATIONS. DESCRIPTIONS PROVIDED BY CLIENT, OR THEIR REPRESENTATIVE. ALL DOCUMENTS ARE RECORDED IN SAME COUNTY AS PROPERTY LOCATION UNLESS OTHERWISE NOTED. ROOF OVERHANGS NOT LOCATED. SURVEY MEETS ACCURACY STANDARD FOR SUBURBAN SURVEYS (1 FOOT IN 7500 FEET). ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD'88, UNLESS OTHERWISE NOTED.



SHEET 1 OF 1

MAP OF BOUNDARY SURVEY			SCALE: 1" = 20'
COMMUNITY PANEL# 125111-0989	FLOOD ZONE: AE	BASE FLOOD EL.: AR: 6.0'(NAVD'88)	DRAWN BY: A.A.
			CHECKED BY: J.K.
DATE OF FIRM: 10/05/2017	BASIS OF BEARING: S/E R/W LINE OF TRANQUILITY DRIVE, SAID LINE HAVING BEARING OF N06°26'11"E.		
PROPERTY ADDRESS: 4203 TRANQUILITY DRIVE, HIGHLAND BEACH, FLORIDA 33487			

NOTES/REVISIONS

PARTY CHIEF: HECTOR M.
SURVEY DATE: 06/01/24

THIS SURVEY MEETS THE STANDARD OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

Date: 06/01/2024

JOHN E. KUHAR, PSM, STATE OF FLORIDA
PROFESSIONAL SURVEYOR AND MAPPER LS 6711
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

BASELINE LAND SURVEY LLC
1400 N.W. 1st COURT
BOCA RATON, FLORIDA 33432
(561) 417-0700 LB-8229

JOB NO.: 06-05-142