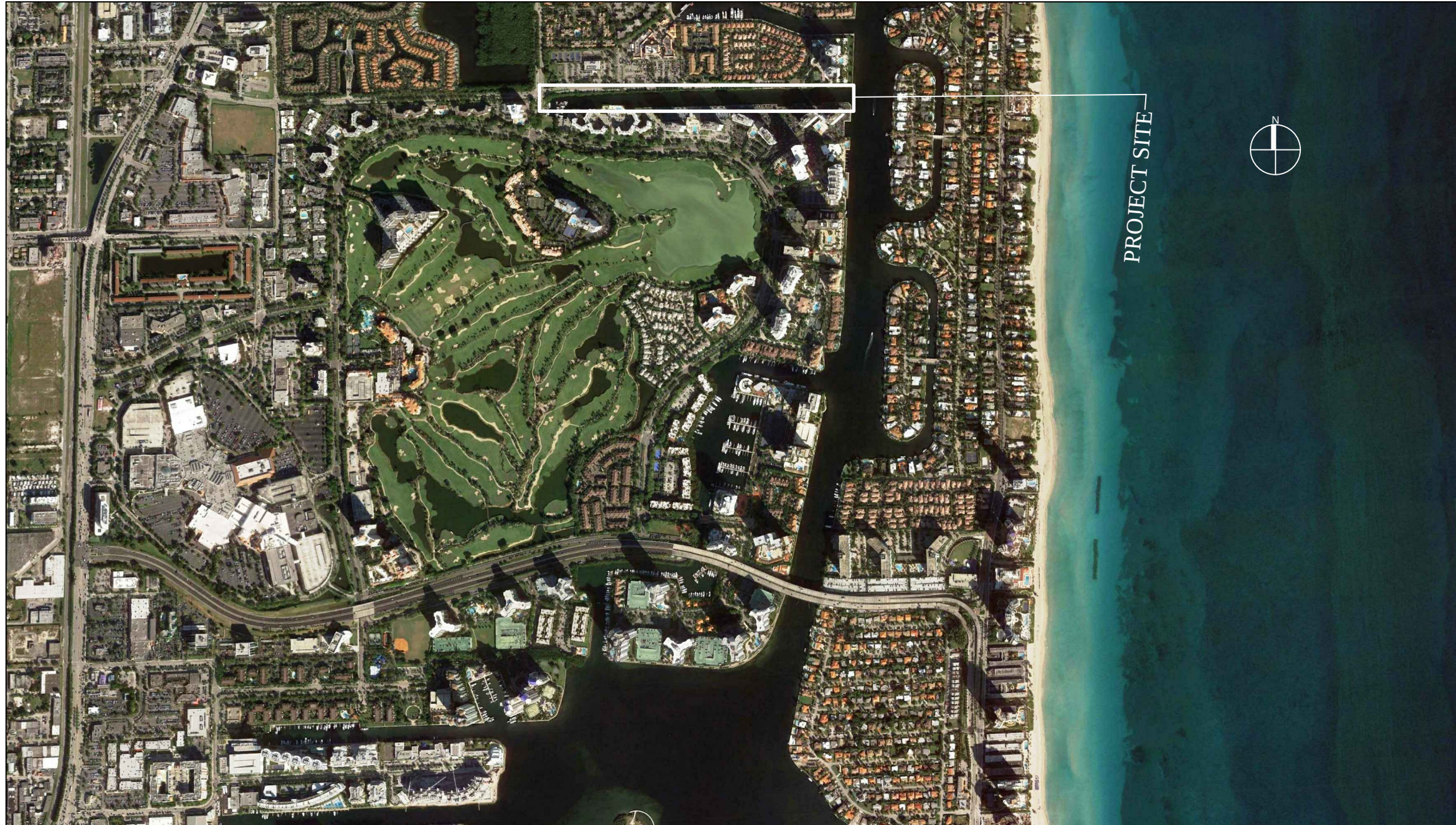
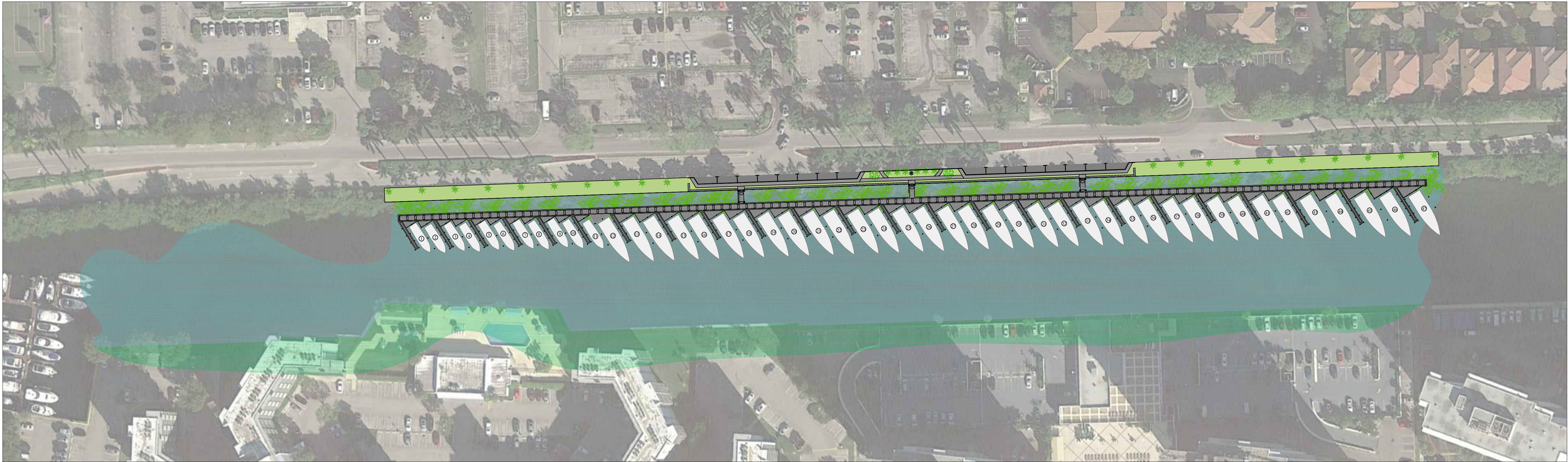
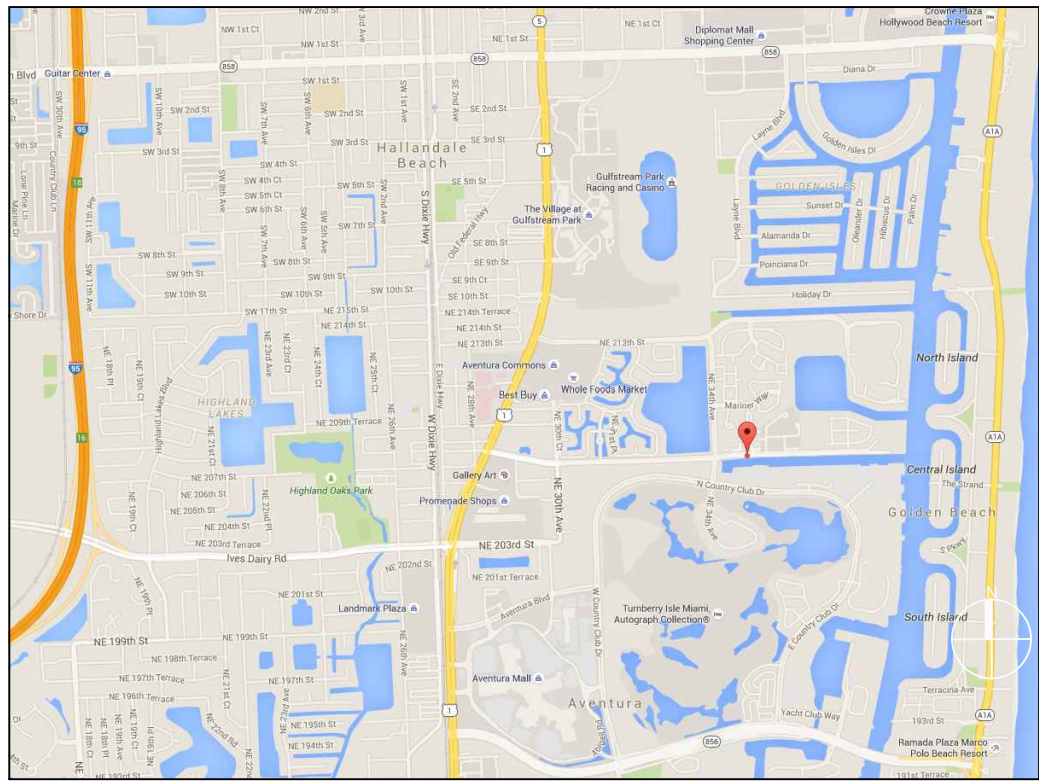


SAPPHIRE CAY MARINA



LOCATION MAP AND LEGAL DESCRIPTION



PROJECT SITE LOCATION: NE 207th Street Aventura, FL		
LATITUDE:	25°58'3.60"N	
LONGITUDE:	80° 7'53.71"W	
FOLIO No.:28-1235-010-0030	COR OF AVENTURA...	FOLIO No.:28-1235-013-0010
LEGAL DESCRIPTION:	MARINA CONDO NO 1	LEGAL DESCRIPTION:
35 51 42 4.303 AC	N 80 DEG E 179.54FT N 87 DEG E	THE WATERWAYS SEC 2
BISCAYNE YACHT & COUNTRY CLUB	171.63FT S 02 DEG E 75FT S 87 DEG	PB 122-87
1ST ADDN	W 167FT S 80 DEG W 184.41FT N 02	LOT SIZE 2.413 AC M/L
PB 89-100	DEG W 75.58FT TO POB	FAU 30 1235 027 0040
PRIVATE CANAL LESS PART IN	F/A/U 30-1235-010-0030	OR 18416-413 1298 3
AVENTURA MARINA CONDO NO 1 & LESS	OR 24663-3244 05 2006 2(2)	
PORT OF PRIVATE CANAL		
DESC BEG NE		

SHEET INDEX

S-1	COVER SHEET: PROJECT LOCATION MAP, PROJECT LOCATION AERIAL, PROPERTY
S-2	EXISTING CONDITIONS
S-3	PROPOSED CONDITIONS
S-4A	DOCK FRAMING PLAN: SECTIONS 1-2
S-4B	DOCK FRAMING PLAN: SECTIONS 3-4
S-4C	DOCK FRAMING PLAN: SECTIONS 5-6
S-5	TYP. CROSS SECTION AND RETAINING WALL DETAILS
S-5A	TYP. CROSS SECTION AND CONC. DOCK SECTIONS & DETAILS
S-5B	TYP. RETAINING WALL WITH RETURN DETAILS.

GENERAL NOTES:

- ELEVATIONS SHOWN REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
- ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.
- IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ENGINEER BEFORE PROCEEDING WITH WORK. CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL LINES, ELEVATIONS, AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE AND GOVERN HIMSELF BY ALL PROVISIONS OF THESE PERMITS, APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE, 2014 EDITION (AND CURRENT ADDENDUMS).
- APPROVED CONTRACTOR TO DETERMINE THE SUITABILITY OF EXISTING STRUCTURES AND VERIFY ALL DIMENSIONS. THE APPROVED CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCES AND PROCEDURES OF THEIR WORK.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK.
- CONTRACTOR TO PROPERLY FENCE AND SECURE AREA WITH BARRICADES.
- ANY DEVIATION AND/OR SUBSTITUTION FROM THE INFORMATION PROVIDED HEREIN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- ALL NEW MATERIALS AND/OR PATCHWORK SHALL BE PROVIDED TO MATCH EXISTING MATERIALS AND/OR ADJOINING WORK WHERE PRACTICAL EXCEPT AS SPECIFICALLY NOTED HEREIN.
- LICENSED CONTRACTOR SHALL USE ALL POSSIBLE CARE TO PROTECT ALL EXISTING MATERIALS, SURFACES, AND FURNISHINGS FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.
- THE LICENSED CONTRACTOR TO INSTALL AND REMOVE ALL SHORING AND BRACING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
- ALL NEW WORK AND/OR MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF EACH ADMINISTRATIVE BODY HAVING JURISDICTION IN EACH PERTAINING CIRCUMSTANCE.
- THE CONTRACTOR WILL EMPLOY AND MAINTAIN ADEQUATE SEDIMENT AND EROSION CONTROL MEASURES TO PROTECT BISCAYNE BAY FROM SEDIMENT AND CONSTRUCTION DEBRIS.

DOCK: LL 60 PSF

BOLTS

- ALL BOLTS SHALL BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.

WOOD

- PRIMARY WOOD FRAMING MEMBERS SHALL BE NUMBER 1 PRESSURE TREATED SOUTHERN PINE OR BETTER.
- ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.
- ALL DECKING TO BE IPE BRAZILIAN HARDWOOD, UNLESS OTHERWISE NOTED.

CONCRETE

- CONCRETE SHALL CONFORM TO ACI 318 (LATEST ED.) AND SHALL BE REGULAR WEIGHT, SULFATE RESISTANT, WITH A DESIGN STRENGTH OF 5,000 PSI AT 28 DAYS W/ A MAX WATER-CEMENTIOUS MATERIALS RATIO, BY WEIGHT, NORMAL WEIGHT AGGREGATE CONCRETE OF 0.40.
- OWNER SHALL EMPLOY AND PAY FOR TESTING SERVICES FROM AN INDEPENDENT TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE W/ ASTM.
- LICENSED CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL.
- CONCRETE COVER SHALL BE 3" UNLESS OTHERWISE NOTED ON APPROVED DRAWINGS.
- REINFORCING STEEL SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF ASTM A615 GRADE 60 SPECIFICATIONS. ALL REINFORCEMENT SHALL BE PLACED IN ACCORDANCE W/ ACI 315 AND ACI MANUAL OF STANDARD PRACTICE.
- SPICES IN REINFORCING BARS SHALL 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.

PILE DRIVING NOTES

- PILE DRIVING OPERATIONS SHALL BE OBSERVED BY A SPECIAL INSPECTOR, INCLUDING TEST PILES SUFFICIENT TO DETERMINE THE APPROXIMATE LENGTH REQUIRED TO MEET DESIGN CAPACITY.
- PILES SHALL BE DRIVEN USING AN APPROVED CUSHION BLOCK CONSISTING OF MATERIAL SO ARRANGED SO AS TO PROVIDE THE TRANSMISSION OF THE HAMMER ENERGY.
- PILES SHALL BE DRIVEN TO REQUIRED CAPACITY A MIN 12 INTO BERM.
- PILES SHALL BE DRIVEN WITH A DROP HAMMER OR GRAVITY HAMMER PROVIDED THE HAMMER SHALL WEIGH NO LESS THAN 3,000 POUNDS, AND THE FALL OF THE HAMMER SHALL NOT EXCEED 6 FT.
- PILES SHALL BE DRIVEN WITH A VARIATION OF NOT MORE THAN 1/4" PER FOOT FROM THE VERTICAL, OR FROM THE BATTER LINE INDICATED, WITH A MAX VARIATION OF THE HEAD OF THE PILE FROM THE POSITION SHOWN ON THE PLANS OF NOT MORE THAN 3".
- WHERE PILING MUST PENETRATE STRATA OFFERING HIGH RESISTANCE TO DRIVING, THE STRUCTURAL ENGINEER OF RECORD OR SPECIAL INSPECTOR MAY REQUIRE THAT PILES BE SET IN PRE-DRILLED OR PUNCHED HOLES. THE PILES SHALL REACH THEIR FINAL PENETRATION BY DRIVING.

SAPPHIRE CAY MARINA

Aventura, Florida

CLIENT:

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735 Arlington Avenue North,
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ENVIRONMENTAL CONSULTANT:



OCEAN CONSULTING, LLC

340 Minorca Avenue, Suite 7
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Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:

DYNAMIC ENGINEERING SOLUTIONS, INC.

950 N. Federal Highway, Suite 212
Pompano Beach, FL 33062
Tel: (954) 545-1740
Fax: (954) 545-1721

SEAL / SIGNATURE / DATE

John Omslaer
PE 52733, EB 26829

PERMIT SKETCHES

Issue # Issue Date

REVISION 1

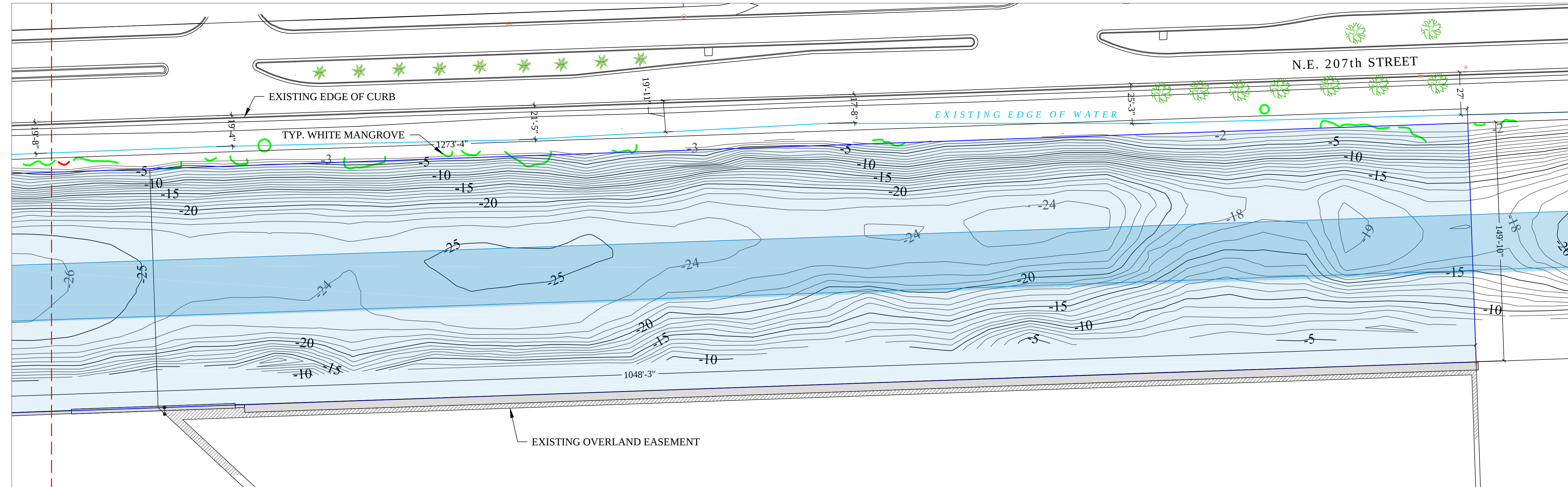
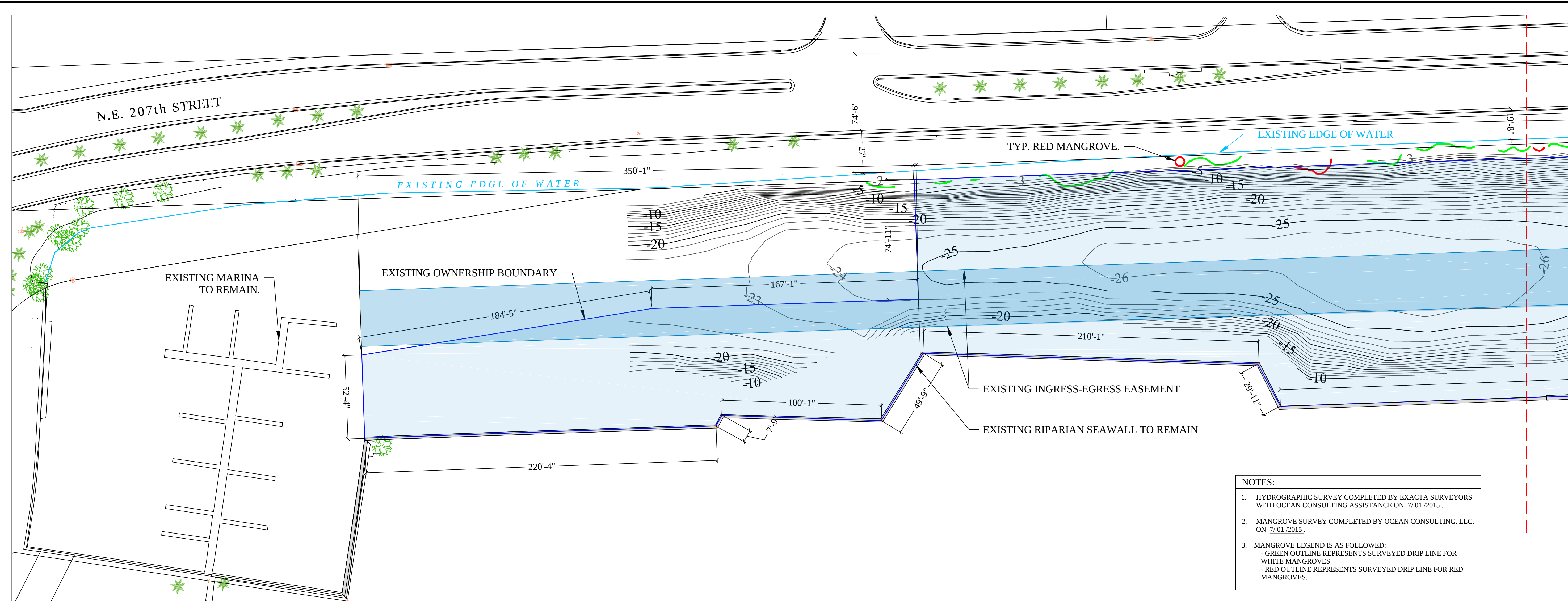
① October 22, 2015

PROJECT: 15-5045

COVER SHEET

SCALE : AS SHOWN
SHEET NO.

S-1



SAPPHIRE CAY MARINA

Aventura, Florida

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①	October 22, 2015

PROJECT: 15-5045

EXISTING CONDITIONS

SCALE : AS SHOWN
SHEET NO.

S-2

SAPPHIRE CAY MARINA

Aventura, Florida

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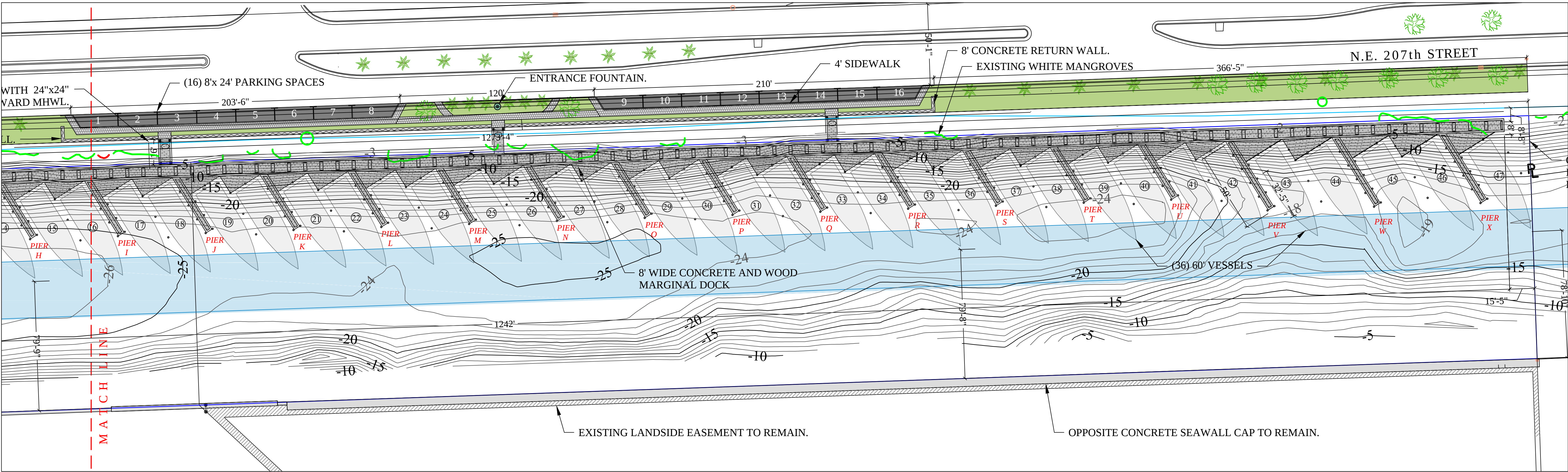
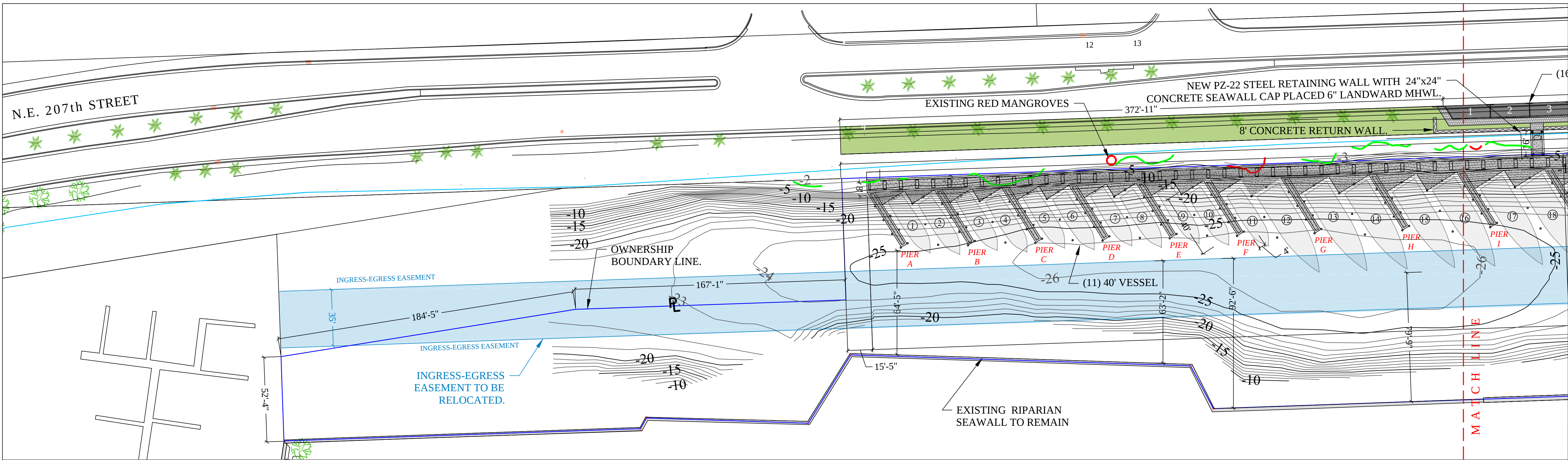
Issue #	Issue Date
REVISION 1	
①	October 22, 2015

PROJECT: 15-5045

PROPOSED CONDITIONS

SCALE : AS SHOWN
SHEET NO.

S-3



PROPOSED OFF SEASON SLIP MIX																								
SLIP No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
LEGNTH	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	40'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"
WIDTH	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"
DRAFT	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"

SLIP No.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	
LEGNTH	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	60'-0"	
WIDTH	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	20'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	25'-0"	
DRAFT	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	6'-0"	

NOTES AND QUANTITIES	
TOTAL DOCK AREA: 20,219 SF (3) 8' x 16' ACCESS PIERS 1242' x 8' MARGINAL DOCK (21) 40' x 4' SLIP FINGER PIERS (3) 50' x 4' SLIP FINGER PIERS	
SQ. FOOTAGE OF MANGROVES IMPACT: RED: 39 SF WHITE: 447 SF	
682' LINEAR FEET OF NEW RETAINING WALL (16) 24' x 8" PARALLEL PARKING SPACES	

SAPPHIRE CAY MARINA

Aventura, Florida

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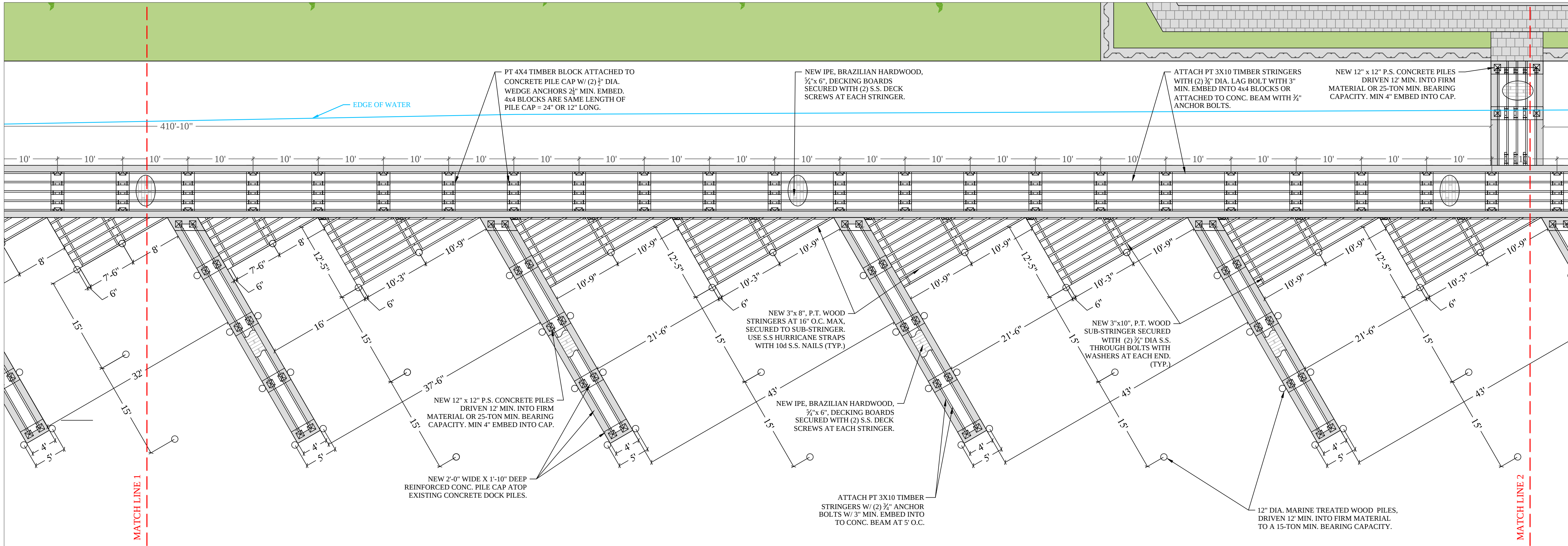
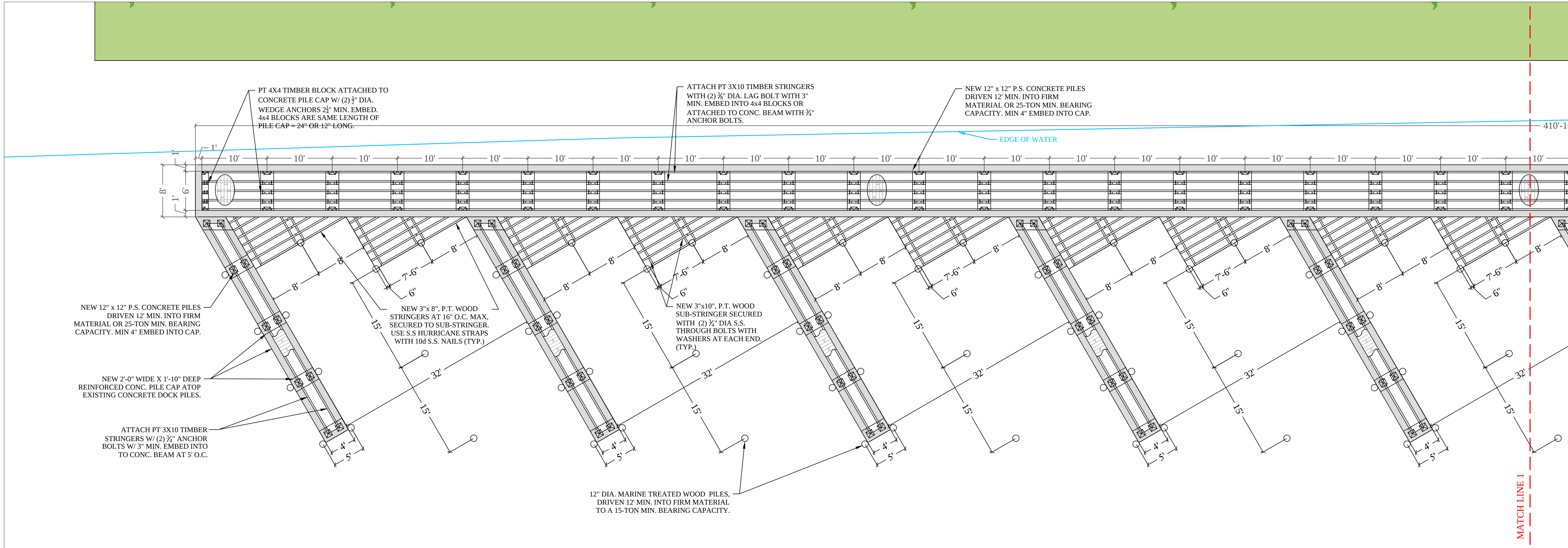
Issue #	Issue Date
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①	October 22, 2015

PROJECT: 15-5045

DOCK FRAMING PLAN

SCALE : AS SHOWN
SHEET NO.

S-4A



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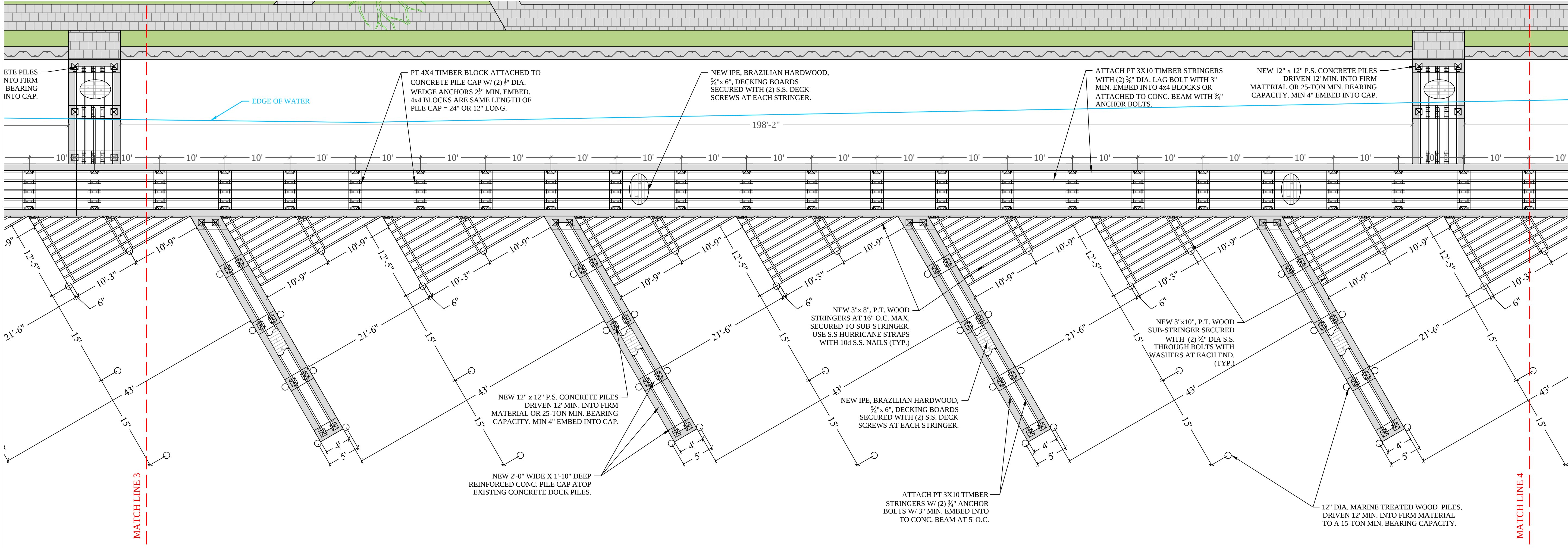
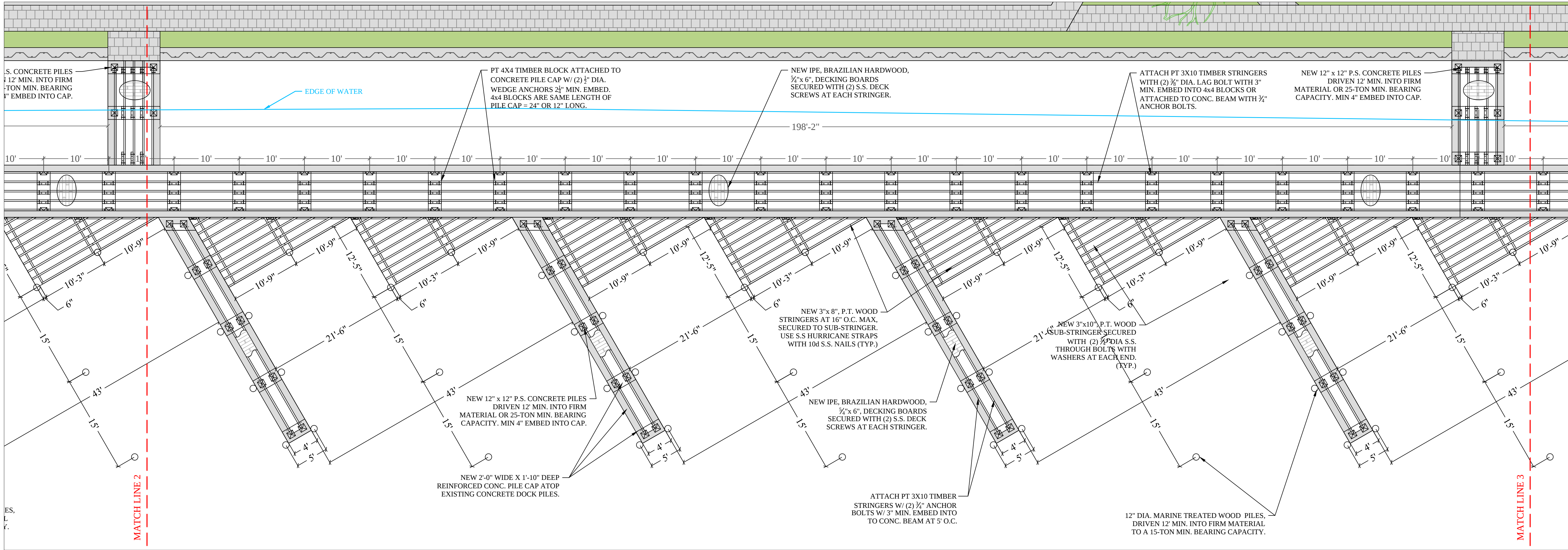
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REVISION 1	
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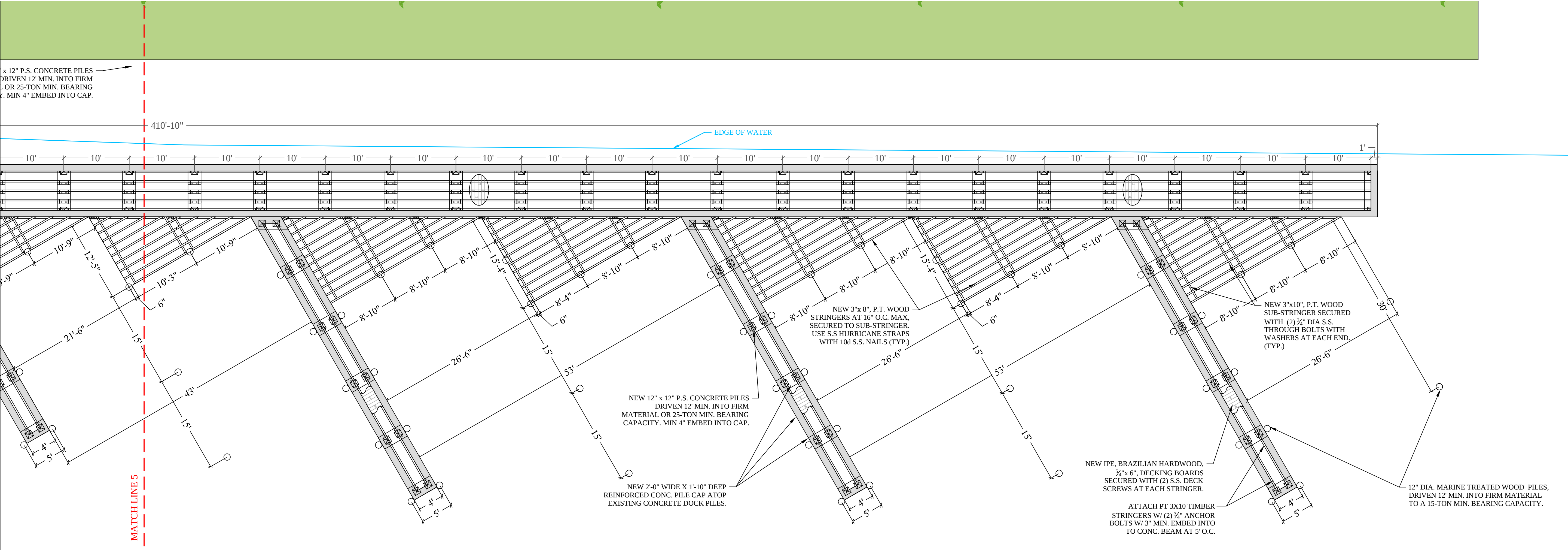
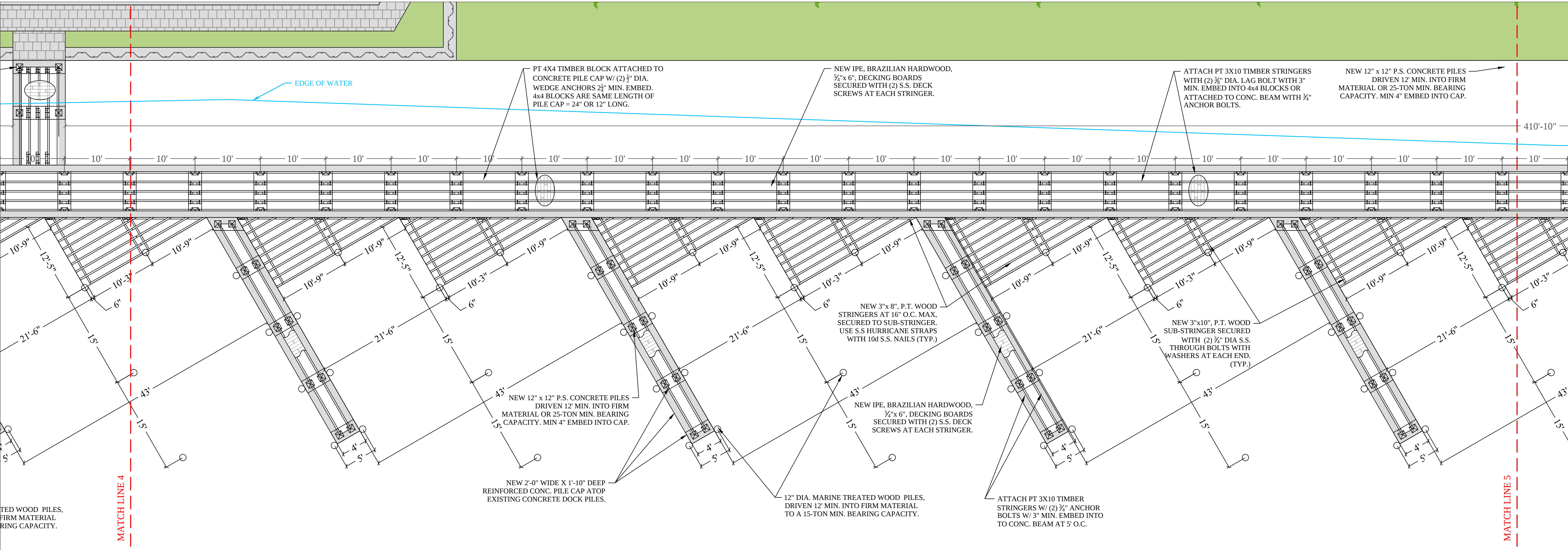
PROJECT: 15-5045

DOCK FRAMING PLAN

SCALE : AS SHOWN
SHEET NO.

S-4B





SAPPHIRE CAY MARINA

Aventura, Florida

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Issue #	Issue Date
REVISION 1	
①	October 22, 2015

PROJECT: 15-5045

DOCK FRAMING PLAN

SCALE : AS SHOWN
SHEET NO.

S-4C

Aventura, Florida

CLIENT:
VALVASONE
INVESTMENTS, LLC
735 Arlingtong Avenue North,
Suite 308
St. Petersburg, FL 33701

The logo for Ocean Consulting, LLC features the word "ocean" in a white, cursive script font against a blue background. Below this, a white wavy line separates the blue upper section from a brown lower section. The words "CONSULTING, LLC" are written in a white, sans-serif, all-caps font on the brown background.

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PROJECT ENGINEER:

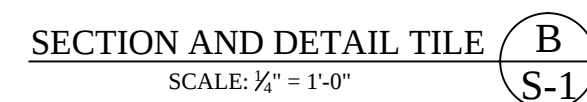
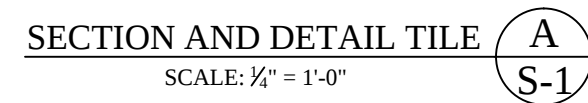
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Issue #	Issue Date
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SCALE : AS SHOWN
SHEET NO.

S-5



SAPPHIRE CAY
MARINA

Aventura, Florida

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INVESTMENTS, LLC**
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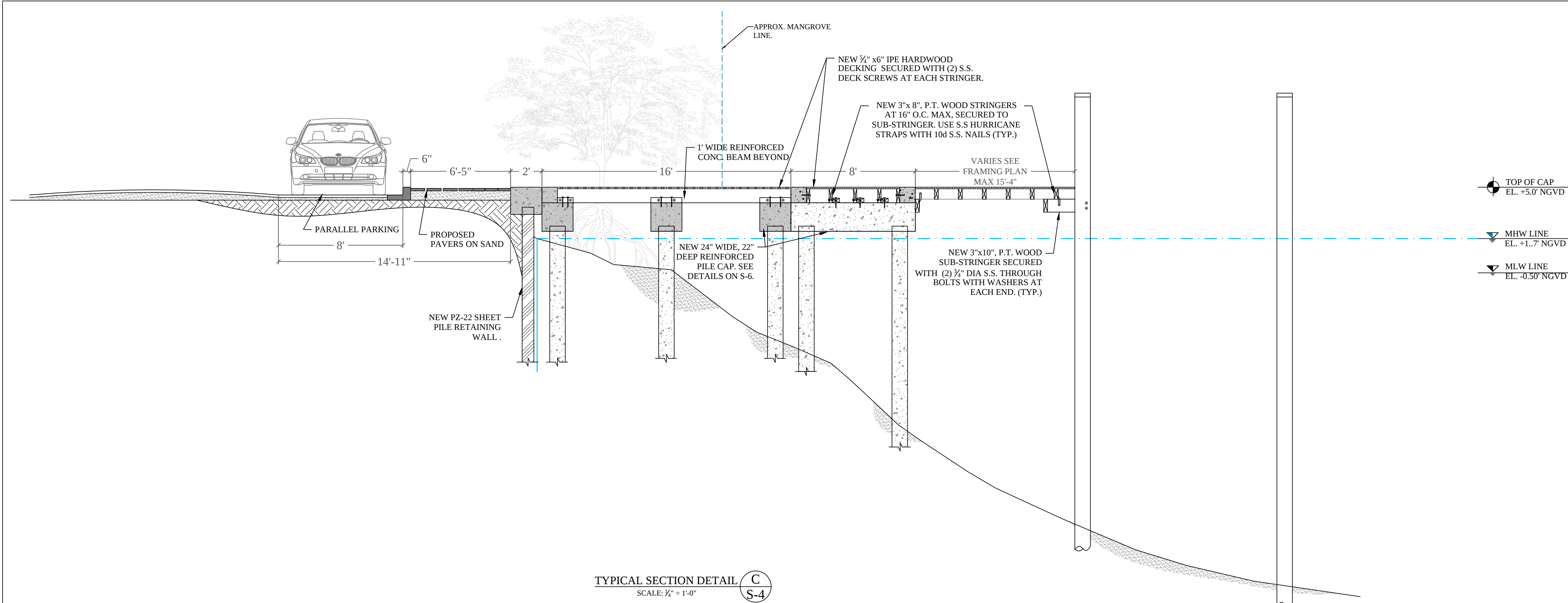
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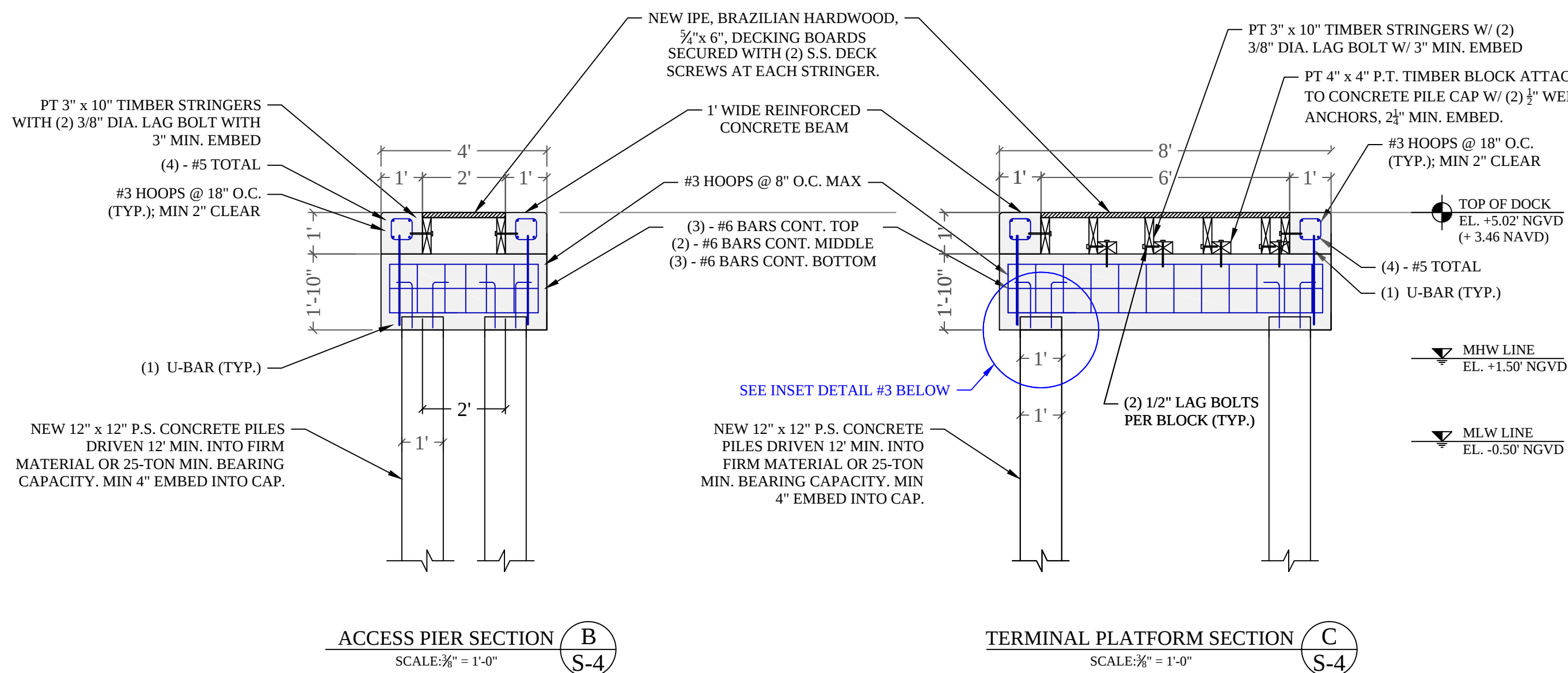
PROJECT: 15-5045

TYP. CROSS SECTION
AND CONC. DOCK
SECTIONS & DETAILS
SCALE : AS SHOWN
SHEET NO.

S-5A



TYPICAL SECTION DETAIL C S-4
SCALE: 1/4" = 1'-0"



ACCESS PIER SECTION B S-4
SCALE: 3/8" = 1'-0"

TERMINAL PLATFORM SECTION C S-4
SCALE: 3/8" = 1'-0"

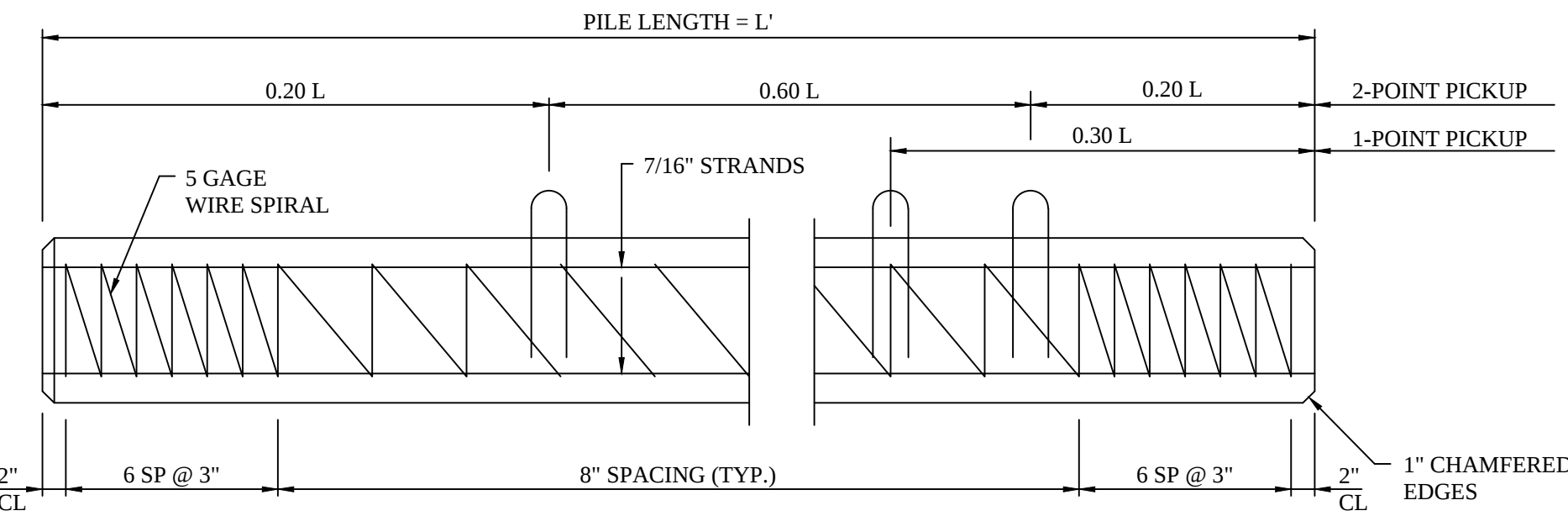
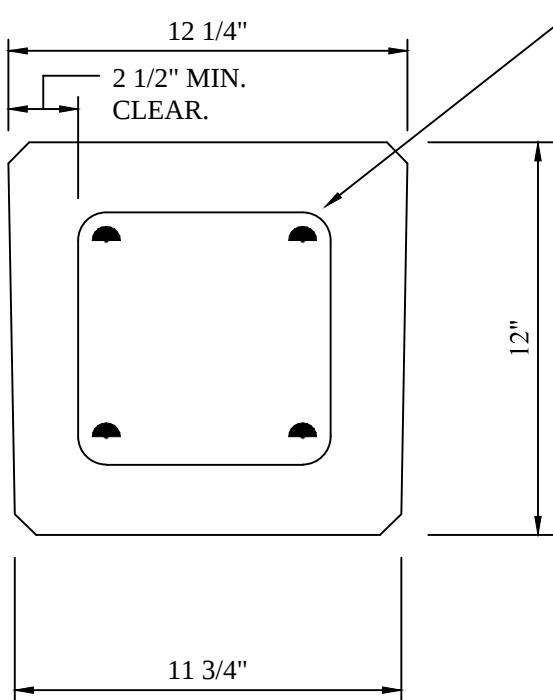
PILE NOTE:

CONCRETE COMPRESSIVE STRENGTH:
3000 PSI @ RELEASE
5000 PSI @ DRIVING

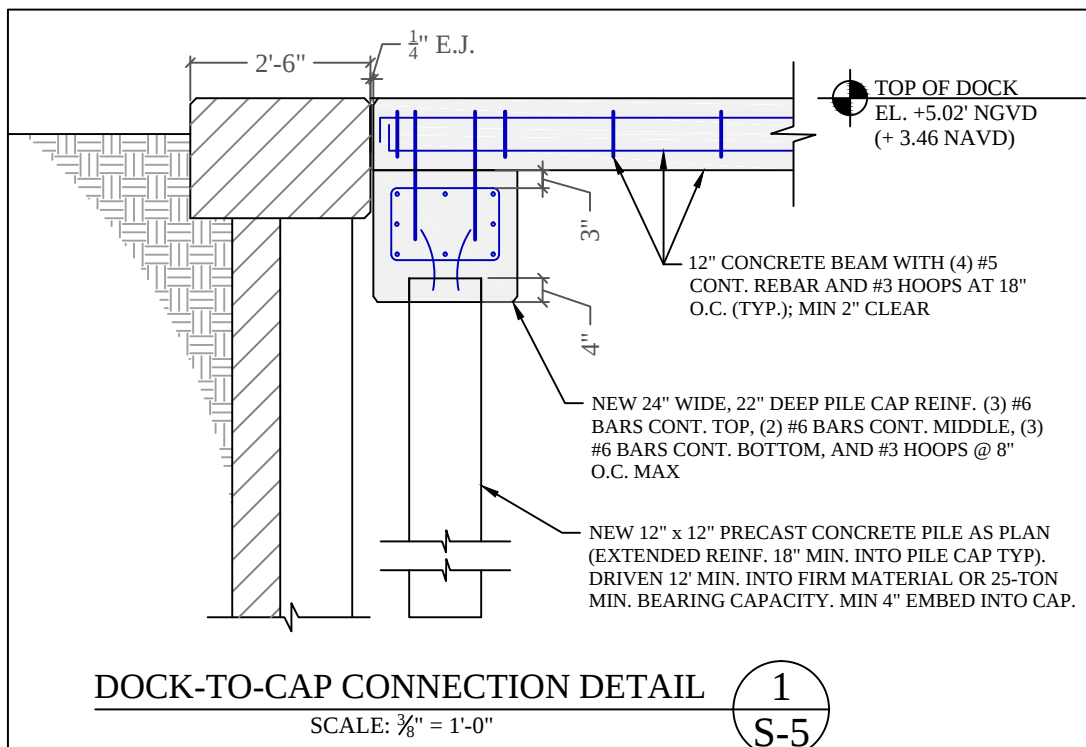
SPIRAL TO BE ASTM A-82 TIGHT
HARD-DRAWN WIRE

STRANDS - USE FOUR 7/16" (270K)
LOW RELAXATION ASTM 416-87 UNCOATED
7-WIRE STRANDS TENSIONED TO 2.33 KIPS
EACH

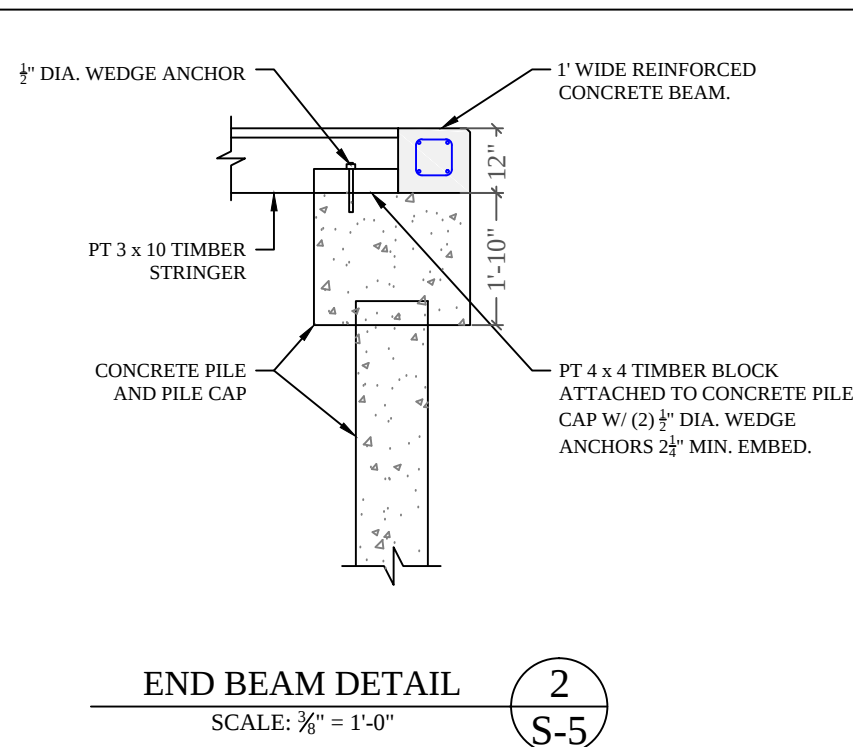
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2-POINT PICKUP-MAXIMUM L = 62'



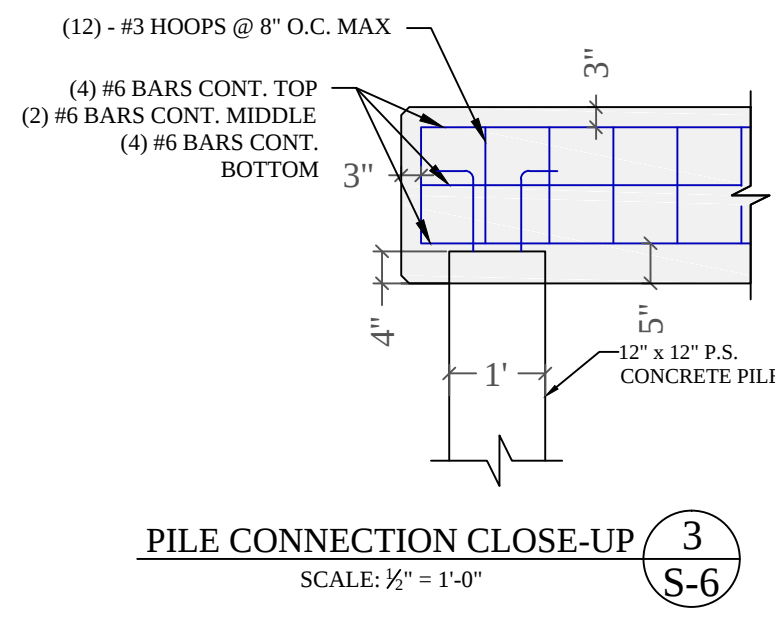
CONCRETE PILE DETAIL



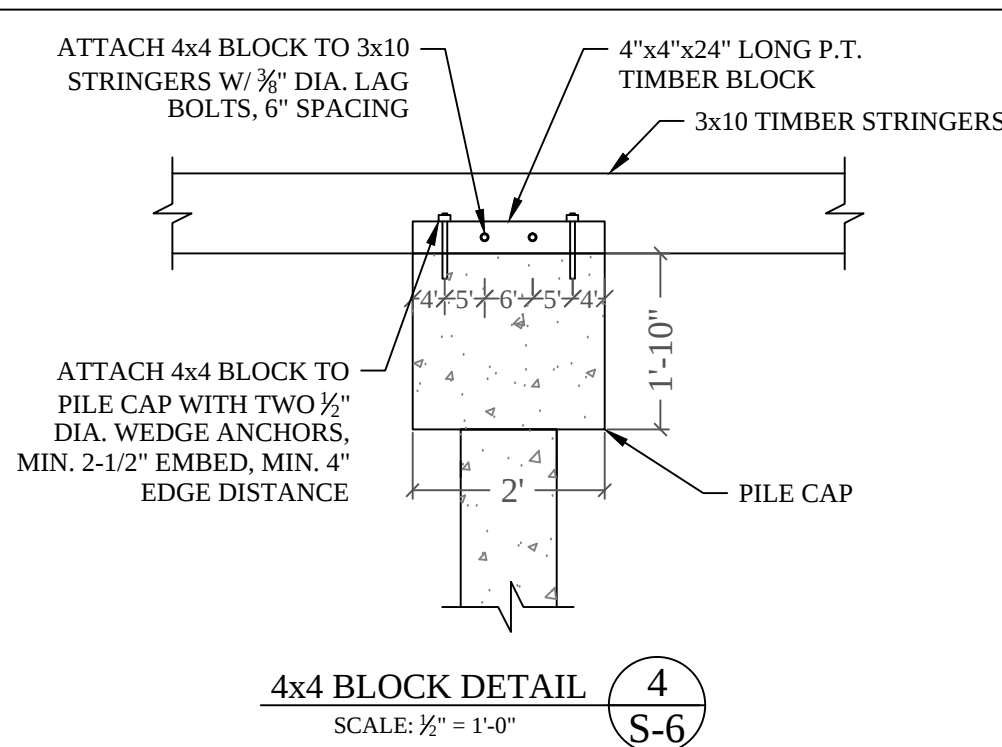
DOCK-TO-CAP CONNECTION DETAIL 1 S-5
SCALE: 1/2" = 1'-0"



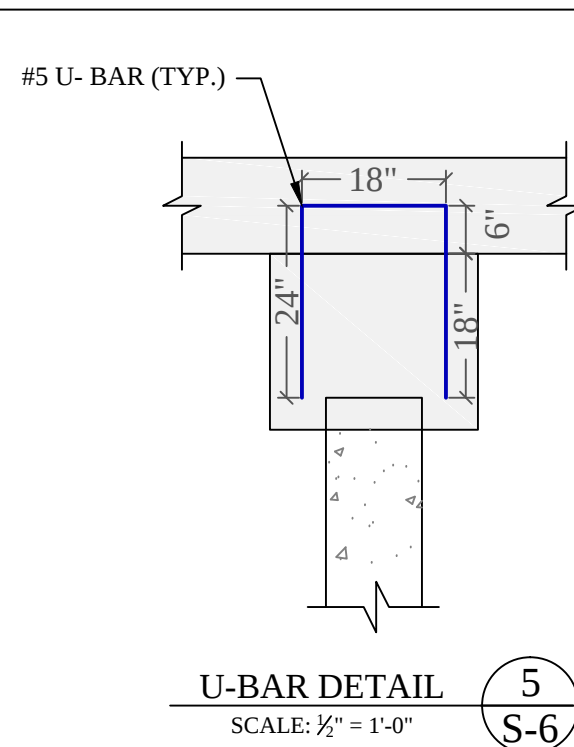
END BEAM DETAIL 2 S-5
SCALE: 1/2" = 1'-0"



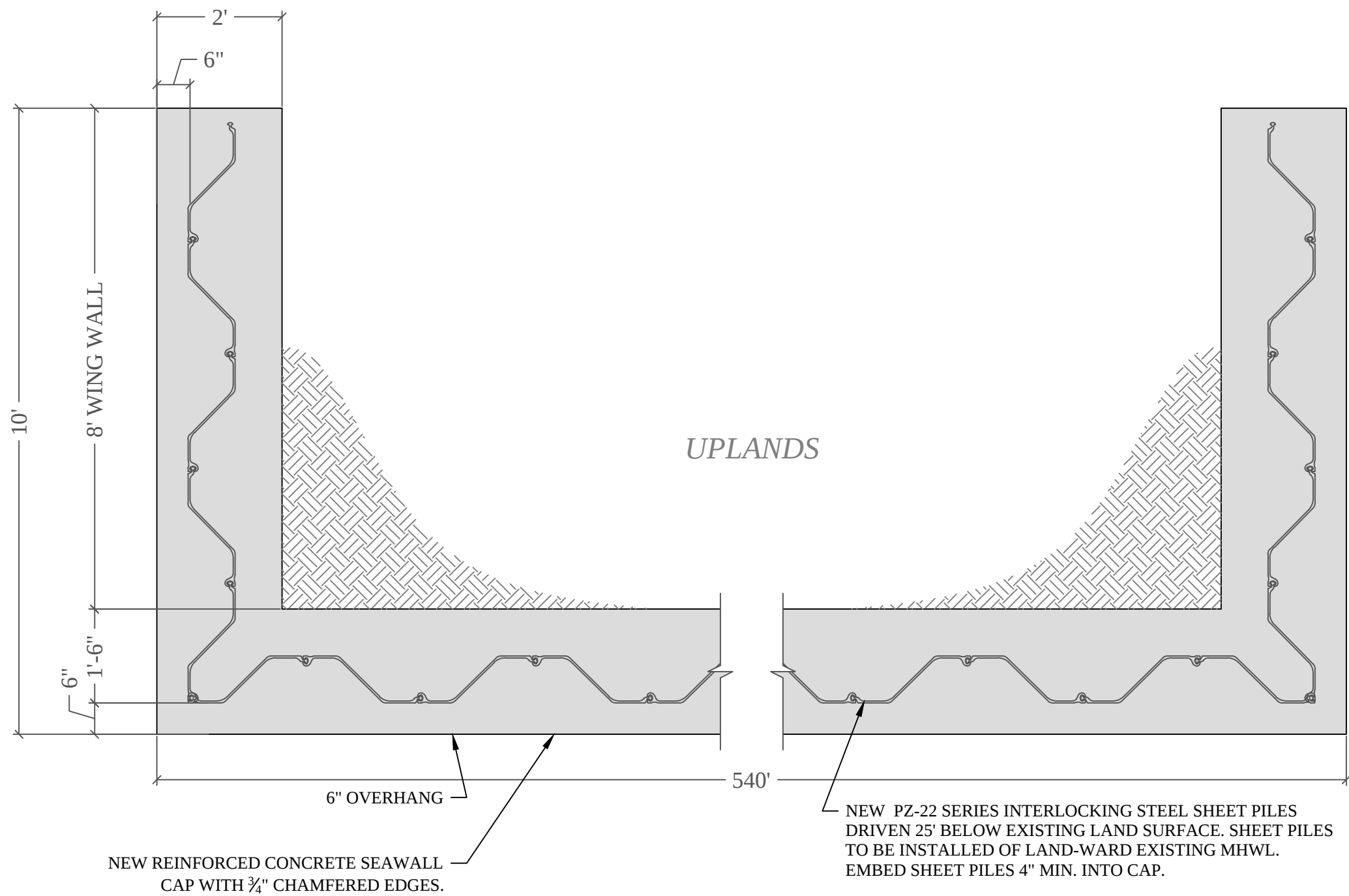
PILE CONNECTION CLOSE-UP 3 S-6
SCALE: 1/2" = 1'-0"



4x4 BLOCK DETAIL 4 S-6
SCALE: 1/2" = 1'-0"

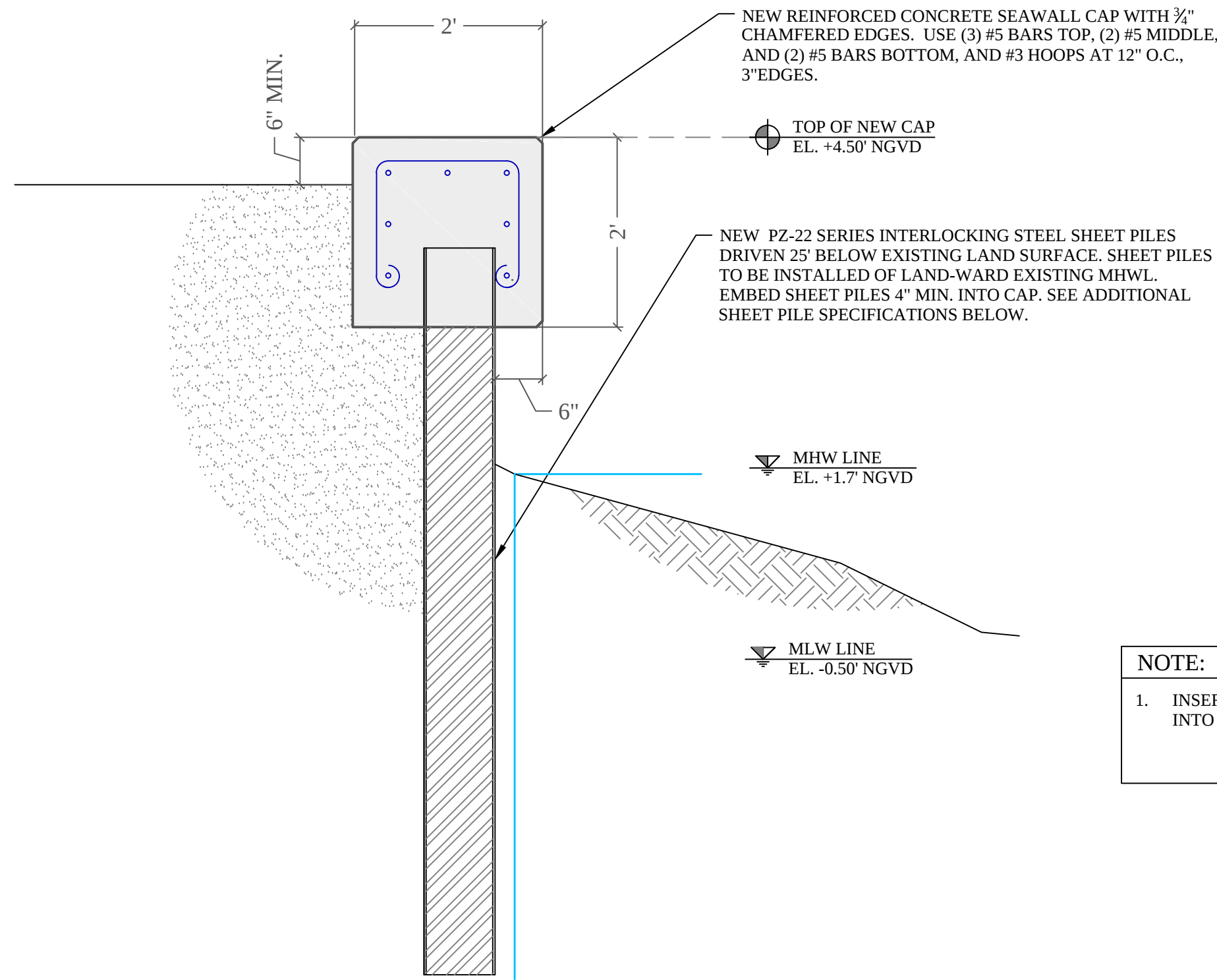


U-BAR DETAIL 5 S-6
SCALE: 1/2" = 1'-0"



TYP. RETAINING WALL WITH RETURN CONDITION PANEL DETAIL
SCALE: 3/8" = 1'-0"

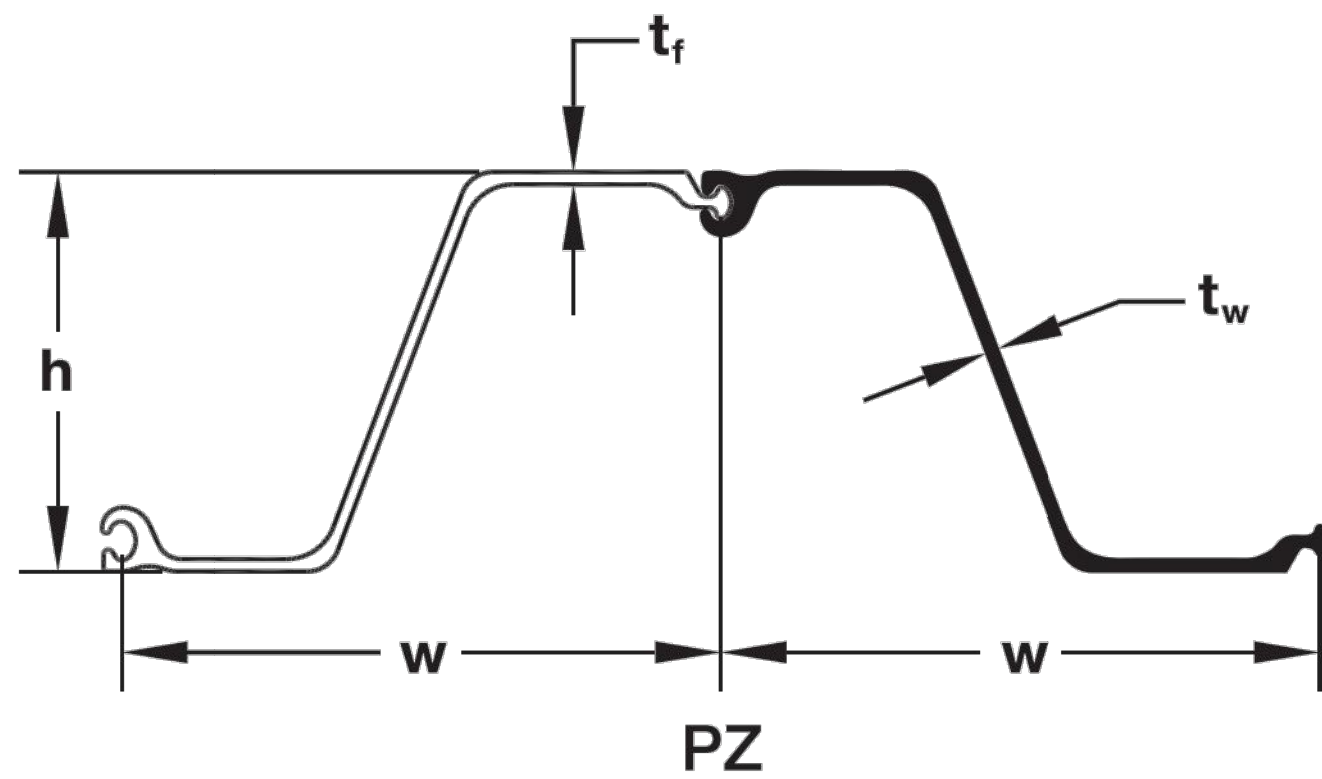
1
S-5A



RETAINING WALL SECTION (TYP.)
SCALE: 3/8" = 1'-0"

A
S-5A

PZ/PS Hot Rolled Steel Sheet Pile



SECTION	Width (w) in (mm)	Height (h) in (mm)	THICKNESS		Cross Sectional Area in ² /ft (cm ² /m)	WEIGHT		SECTION MODULUS		Moment of Inertia in ⁴ /ft (cm ⁴ /m)	COATING AREA	
			Flange (t _f) in (mm)	Wall (t _w) in (mm)		Pile lb/ft (kg/m)	Wall lb/ft ² (kg/m ²)	Elastic in ³ /ft (cm ³ /m)	Plastic in ³ /ft (cm ³ /m)		Both Sides ft ² /ft of single (m ² /m)	Wall Surface ft ² /ft ² of wall (m ² /m ²)
PZ 22	22.0 559	9.0 229	0.375 9.50	0.375 9.50	6.47 136.9	40.3 60.0	22.0 107.4	18.1 973	21.79 1171.4	84.38 11500	4.48 1.37	1.22 1.22
PZ 27	18.0 457	12.0 305	0.375 9.50	0.375 9.50	7.94 168.1	40.5 60.3	27.0 131.8	30.2 1620	36.49 1961.9	184.20 25200	4.48 1.37	1.49 1.49
PZ 35	22.6 575	14.9 378	0.600 15.21	0.500 12.67	10.29 217.8	66.0 98.2	35.0 170.9	48.5 2608	57.17 3073.5	361.22 49300	5.37 1.64	1.42 1.42
PZ 40	19.7 500	16.1 409	0.600 15.21	0.500 12.67	11.77 249.1	65.6 97.6	40.0 195.3	60.7 3263	71.92 3866.7	490.85 67000	5.37 1.64	1.64 1.64

SAPPHIRE CAY MARINA

Aventura, Florida

CLIENT:

**VALVASONE
INVESTMENTS, LLC**

735 Arlingtong Avenue North,
Suite 308
St. Petersburg, FL 33701

ENVIRONMENTAL CONSULTANT:



**OCEAN
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Tel: (305) 921-9344
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CONTRACTOR:

PROJECT ENGINEER:

**DYNAMIC ENGINEERING
SOLUTIONS, INC.**

950 N. Federal Highway, Suite 212
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Tel: (954) 545-1740
Fax: (954) 545-1721

SEAL / SIGNATURE / DATE

John Omslaer
PE 52733, EB 26829

PERMIT SKETCHES

Issue # Issue Date

REVISION 1

① October 22, 2015

PROJECT: 15-5045

**TYP. RETAINING
WALL WITH RETURN
DETAILS**

SCALE : AS SHOWN
SHEET NO.

S-5B

Aventura, Florida

CLIENT:
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Issue #	Issue Date
---------	------------

REVISION 1

① October 22, 2015

PROJECT: 15-5045

PROPOSED OFF SEASON CONDITIONS

SCALE : AS SHOWN
SHEET NO.

~~S-3B~~

