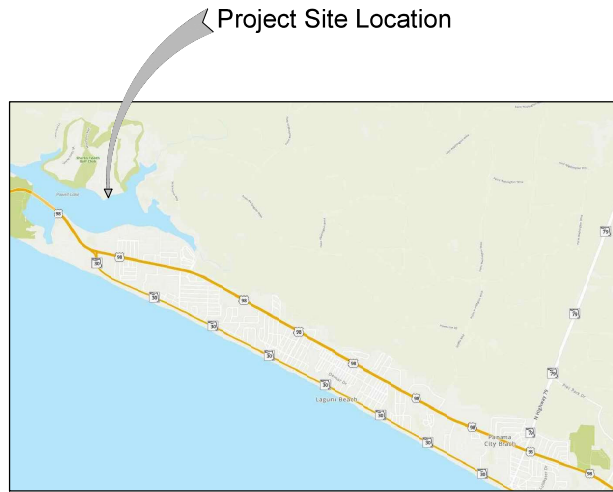


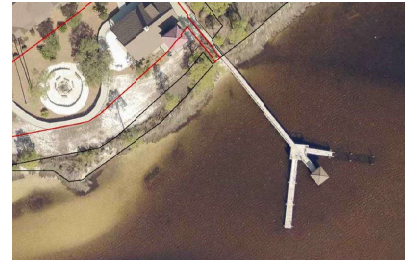
# A Structural Package for: RJ Gorman Marine Wild Heron Community Dock

1110 Prospect Promenade  
Panama City Beach, FL. 32413

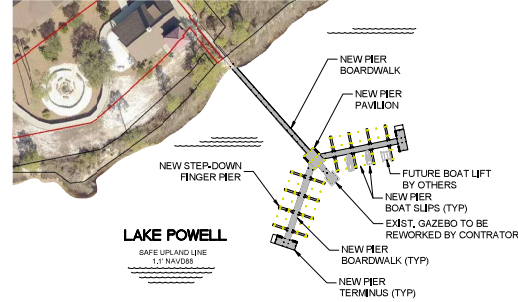


**LOCATION MAP**  
NOT TO SCALE

**PROJECT INFO:**  
 PARCEL NUMBER - 35220-020-000  
 LAND USE ZONING -CSVH (BC)  
 FLOOD ZONE - AE9



**EXISTING PIER TO BE DEMOLISHED**



**PROPOSED SITE PLAN**  
SCALE: NONE

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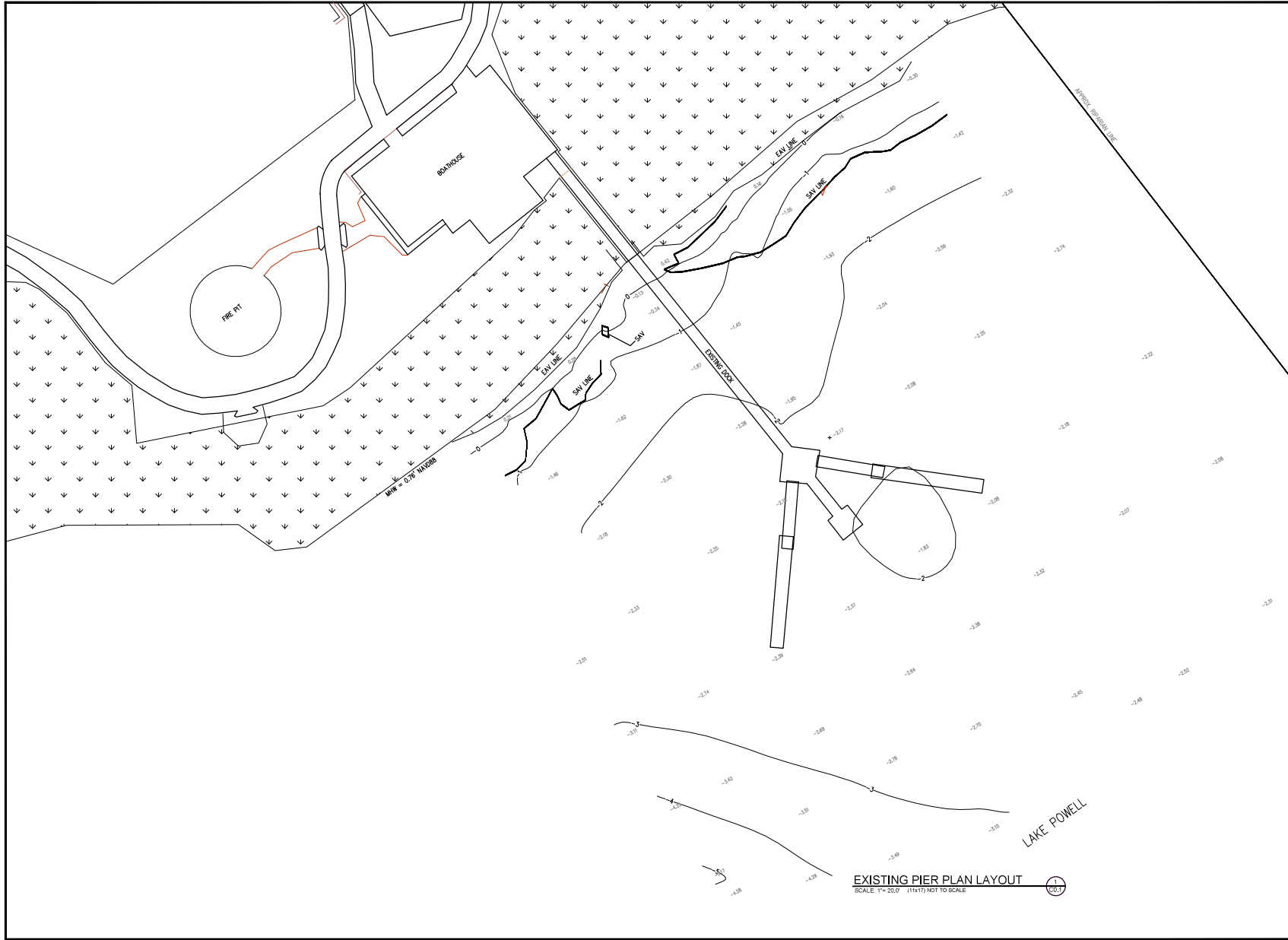
**MK WEBER**  
structural engineering

3200 W. 23RD STREET  
PANAMA CITY, FL 32405  
MKWEBER.COM

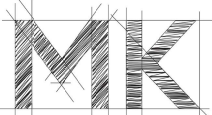
COA # 33120

**MICHAEL K. WEBER P.E.**  
STRUCTURAL ENGINEER  
FLORIDA P.E. # 75798

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A Structural Package for: RJ Gorman Marine Wild Heron Community Dock 1110 Prospect Promenade Panama City Beach, FL. 32413	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DESCRIPTION	DATE												
REV.	DESCRIPTION	DATE														
<small>JOB NUMBER: 21013-14            DRAWN BY: MRM            CHECKED BY: MKW            PLOT DATE: 5/23/2023</small>																
SHEET TITLE																
COVER SHEET																
DRAWING NUMBER																
<b>C0.0</b>																



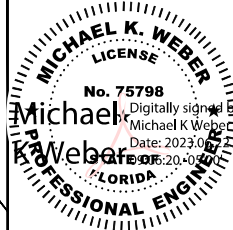
**EXISTING PIER PLAN LAYOUT**  
 SCALE: 1" = 20.0' (1/4" = 10.0')



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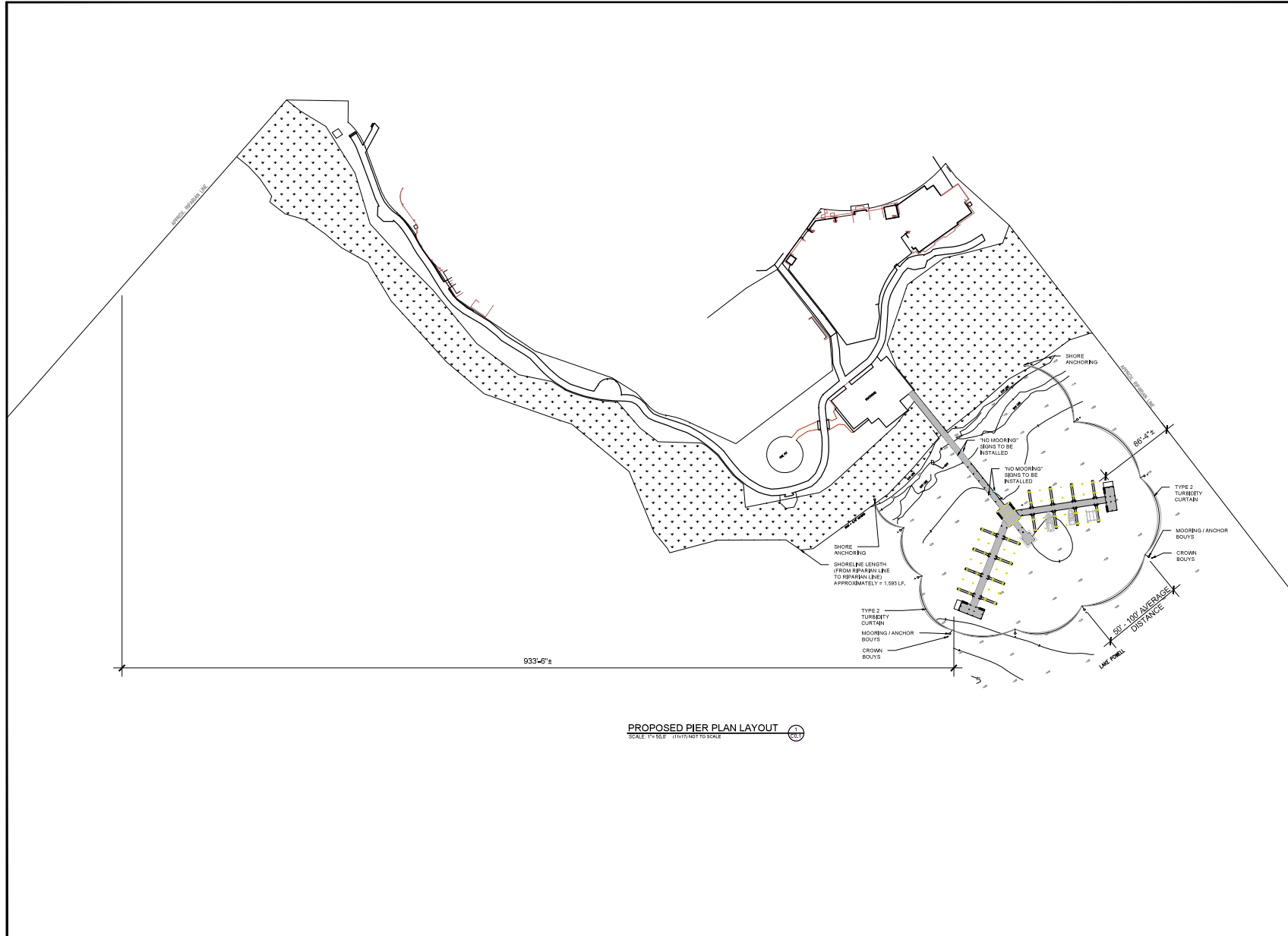
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 STRUCTURAL ENGINEER  
 FLORIDA P.E. # 75798

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REV.	DESCRIPTION	DATE	

JOB NUMBER:	21015-11
DRAWN BY:	DAW
CHECKED BY:	MKW
PLOT DATE:	5/23/2023

SHEET TITLE	EXISTING PIER LAYOUT PLAN
DRAWING NUMBER	<b>C0.1</b>



**PROPOSED PIER PLAN LAYOUT**  
SCALE: 1"=50' (VERTICAL) 1"=100' (HORIZONTAL)

**MK**  
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 structural engineering  
 3200 W. 23RD STREET  
 PANAMA CITY, FL 32405  
 MKWEBER.COM  
 COA # 33120

**MICHAEL K. WEBER**  
 LICENSE  
 No. 75798  
 Digitally signed by Michael K Weber  
 Date: 2023.06.28  
 1996-58-0518  
**MICHAEL K. WEBER**  
 PROFESSIONAL ENGINEER  
 FLORIDA

**MICHAEL K. WEBER P.E.**  
**STRUCTURAL ENGINEER**  
 FLORIDA P.E. # 75798

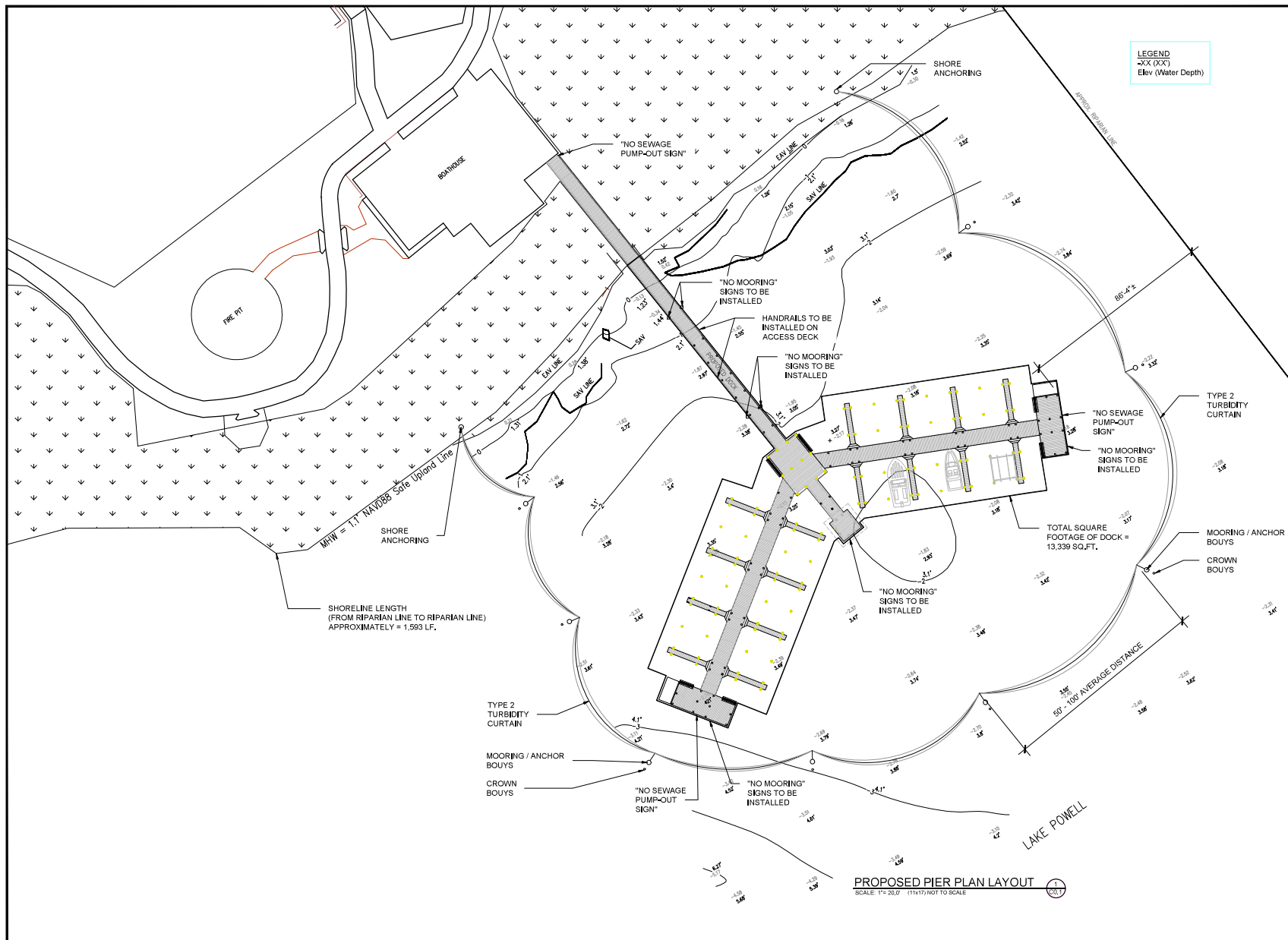
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REV.	DESCRIPTION	DATE

A. Structural Package for: R.J. Gorman Marine  
 Wild Heron Community Dock  
 1110 Prospect Promenade  
 Panama City Beach, FL 32413

JOB NUMBER: 21915-14  
 DRAWN BY: DAW  
 CHECKED BY: MKW  
 PLOT DATE: 5/23/2023

SHEET TITLE  
 PROPOSED PIER LAYOUT PLAN  
 DRAWING NUMBER  
**C0.2**



**LEGEND**  
 XXX (XX)  
 Elev (Water Depth)

**MK**  
**WEBER**  
 structural engineering  
 3200 W. 23RD STREET  
 PANAMA CITY, FL 32405  
 MKWEBER.COM  
 COA # 33120

**MICHAEL K. WEBER**  
 LICENSE  
 No. 75798  
 Digitally signed by Michael K. Weber  
 Date: 2023.05.08 10:11:11  
**PROFESSIONAL ENGINEER**

**MICHAEL K. WEBER P.E.**  
**STRUCTURAL ENGINEER**  
 FLORIDA P.E. # 75798

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DATE	
DESCRIPTION	
REV.	

A Structural Package for: R.J. Gorman Marine  
 Wild Heron Community Dock  
 1110 Prospect Promenade  
 Panama City Beach, FL 32413

JOB NUMBER: 21615-14  
 DRAWN BY: DAW  
 CHECKED BY: MKW  
 PLOT DATE: 6/20/2023

SHEET TITLE  
 PROPOSED PIER LAYOUT PLAN  
 DRAWING NUMBER  
**C0.3**

**PROPOSED PIER PLAN LAYOUT**  
 SCALE: 1" = 20.0' (11/16)" NOT TO SCALE

**STRUCTURAL NOTES**

**GENERAL**

- DESIGN CODE DATA  
 2015 INTERNATIONAL BUILDING CODE  
 2020 FLORIDA STATE BUILDING CODE  
 ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES  
 ACI 318-08 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY  
 AISI/AISC 360-10 NATIONAL DESIGN SPECIFICATION FOR STEEL STRUCTURES  
 ACI 308-10/ASCE 10-10/TMS 402-08 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

- BUILDING OCCUPANCY CATEGORY= I (PER ASCE 7-16 TABLE 1-1).

**3. DESIGN LOADS:**

- DEAD LOADS:
- PER = 10 PSF
- PAVILION FLOOR = 20 PSF
- PAVILION ROOF = 20 PSF

**B. LIVE LOADS:**

- PER = 50 PSF
- PAVILION FLOOR = 40 PSF
- PAVILION ROOF = 20 PSF

**C. WIND DESIGN CRITERIA**

- WIND SPEED = 140 MPH
- EXPOSURE = D
- ENCLOSURE CLASSIFICATION = OPEN
- $K_d = 0.85$
- $I = 1.0$
- $K_{zt} = 1.0$
- BASE VELOCITY PRESSURE,  $q_h = 46.1$  PSF

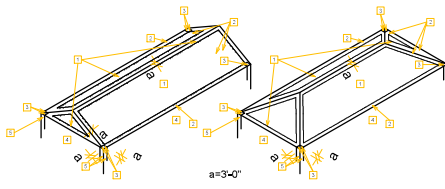
COMPONENTS AND CLADDING			
ROOFS	DESIGN PRESSURE (ULT)	DESIGN PRESSURE (ASD)	
TRIBUTARY AREA 10 SF	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)
ZONE 1 max	54.0 / 88.1	32.4 / 51.0	
ZONE 2 max	54.0 / 117.4	32.4 / 74.4	
ZONE 3 max	54.0 / 117.4	32.4 / 74.4	
TRIBUTARY AREA 100 SF	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)
ZONE 1 max	22.0 / 35.8	13.2 / 3.7	
ZONE 2 max	22.0 / 76.0	13.2 / 41.6	
ZONE 3 max	22.0 / 76.0	13.2 / 41.6	
WALLS	DESIGN PRESSURE	DESIGN PRESSURE	
TRIBUTARY AREA 10 SF	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)
ZONE 4	63.5 / 68.9	38.1 / 41.3	
ZONE 5	63.5 / 66.1	38.1 / 6.0	
TRIBUTARY AREA 100 SF	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)	POSITIVE (PSF) / NEGATIVE (PSF)
ZONE 4	54.0 / 59.4	32.4 / 31.6	
ZONE 5	54.0 / 66.1	32.4 / 31.6	

**STRUCTURAL NOTES CONT'D**

**4. MAXIMUM ALLOWABLE DEFLECTION CRITERIA:**

- ROOF: L/360 LIVE LOAD; L/240 TOTAL LOAD
- FLOORS: L/480 LIVE LOAD; L/360 TOTAL LOAD (WOOD I-JOISTS ONLY)
- FLOORS: L/240 LIVE LOAD; L/240 TOTAL LOAD
- VERTICAL WINDOW SUPPORT: L/1000 LIVE LOAD
- EXTERIOR WALL SYSTEMS: L/600 WIND LOAD

- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH DESIGNER / ENGINEER. DO NOT SCALE DRAWINGS.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND OTHER DESIGN CONSULTANTS DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS. ANY APPARENT DISCREPANCIES, LIMITATIONS OR CONCERNS RESULTING FROM THIS COORDINATION SHOULD BE RESOLVED WITH THE DESIGNER / ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTING. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION. SPECIFICALLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



GABLE ROOF WIND ZONE DIAGRAM      HIP ROOF WIND ZONE DIAGRAM

**WOOD CONSTRUCTION**

**DIMENSIONAL LUMBER**

- ALL DIMENSIONAL LUMBER NOMINAL 2" THICK AND 4"-8" WIDE SHALL BE #2 SPT OR EQUAL. WIDTHS 10" AND WIDER SHALL BE #2 SPT.
- LAMINATED VENEER LUMBER (LVL) TO BE 2.0E AND  $F_b = 3100$  PSI OR GREATER.
- ALL LEVEL 1 STRUCTURAL WALL FRAMING TO BE NOMINAL 2" ENGINEERED LAMINATED VENEER LUMBER (LVL) BOSE VENA - STUD 1.7/2650 OR APPROVED EQUAL.
- SILLS AND MEMBERS EXPOSED DIRECTLY TO MOISTURE OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1. INSTALL IN STAGGERED PATTERN. NAIL AS REQUIRED FOR DIAPHRAGM ACTION.
- SHEAR PLATE AND SPLIT RING FASTENERS SHALL BE TECO OR APPROVED EQUAL.
- NAILS SHALL BE STRONGHOLD, GALVANIZED COMMON NAILS OF THE SIZES INDICATED, EXCEPT THAT STAINLESS STEEL SINKING NAILS SHALL BE USED FOR THE ATTACHMENT OF EXTERIOR PLYWOOD SIDING.
- ALL BOLTS AND LAG SCREWS SHALL BE AMERICAN STANDARD MANUFACTURE.
- BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK, THEN THE REMAINDER OCCUPIED BY THE THREADED PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOT OF THE THREAD. ALL SCREWS SHALL BE SCHEDULED, NOT DRIVEN INTO PLACE.
- PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS. WASHERS SHALL BE EITHER ROUND MALLEABLE IRON OR SQUARE CUT STEEL WASHERS 1/4" THICK X 3 FASTENER DIAMETERS.
- WHENEVER NECESSARY TO CUT OR DRILL TREATED LUMBER, TREAT THE CUT OR BORED SURFACES WITH TWO HEAVY COATS OF THE SAME PRESERVATIVE AS USED IN THE ORIGINAL TREATMENT.
- PROVIDE SOLID BLOCKING AT MID-SPAN OF ALL SWAN JOISTS AND STUDS EXCEEDING 10 FOOT SPAN AND AT 10 FOOT MAXIMUM ON CENTER.
- MEMBERS BEARING ON CONCRETE OR MASONRY WALLS SHALL HAVE A 1/2" AIR SPACE AROUND SIDES AND END OF BEAM.
- DESIGN FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" CURRENT EDITION AS RECOMMENDED BY THE NATIONAL LUMBER MANUFACTURERS' ASSOCIATION.
- ALL COLUMNS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONTINUOUS UNLESS NOTED.
- SET ALL JOISTS WITH CROWN UP.
- WALL SHEATHING SHALL BE NAILED AS INDICATED ON DRAWINGS. ALL PANEL EDGES SHALL BE BACKED WITH 2X OR WIDER FRAMING.
- PLYWOOD SHEATHING TO BE GRADED APA STRUCTURAL I.
- ALL BOLTS, LAG SCREWS, SCREWS AND NAILS SHALL HAVE A HOT DIP GALVANIZED FINISH AT MINIMUM. ALL EXPOSED HARDWARE IS RECOMMENDED BE 316 STAINLESS STEEL.
- SIMPSON STRONG-TIE CONNECTORS ARE SPECIFICALLY REQUIRED TO MEET THE STRUCTURAL CALCULATIONS OF PLAN. BEFORE SUBSTITUTING ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OR CALCULATIONS. THE ENGINEER OF RECORD IS REQUIRED TO CALLUATE AND GIVE WRITTEN APPROVAL FOR SUBSTITUTION PRIOR TO INSTALLATION.
- ALL CONNECTORS FOR THE ATTACHMENT OF EXTERIOR BEAMS, COLUMNS AND JOISTS SHALL BE SIMPSON STRONG-TIE AND ARE TO BE S.S.

**MATERIAL SPECIFICATIONS**

**EXTERIOR WOOD LOAD BEARING, JOISTS, AND BRACERS**

2x6 AND LARGER      SFP No. 2 FT OR BETTER

MINIMUM DESIGN VALUES
$F_b$ 1500 PSI
$F_t$ 825 PSI
$F_v$ 175 PSI
$E$ 1,600,000 PSI
$F_c$ 565 PSI
$F_t$ 1,450 PSI
$E$ 1,600,000 PSI
$E_{min}$ 580,000 PSI

**CONCRETE CONSTRUCTION**

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 307.
- ALL CONCRETE, UNLESS SPECIFICALLY NOTED, SHALL BE NORMAL WEIGHT (145 PCF).
- THE COMPRESSIVE STRENGTH OF ALL GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL MEET OR EXCEED THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE MEMBER.
- CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER:  
 CONCRETE EXPOSED TO EARTH OR WEATHER  
 #6 THROUGH #18 BARS = 3"  
 #6 BAR AND SMALLER = 1-1/2"  
 CONCRETE WITH INTERIOR EXPOSURE:  
 SLABS, WALLS, JOISTS  
 #14 AND #18 BARS = 1-1/2"  
 #11 BAR AND SMALLER = 3/4"
- UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED TO DEVELOP ITS CAPACITY AS FOLLOWS: (SEE TABLE FOLLOWING THIS SECTION)
- SLAB-ON-GRADE SHALL HAVE CLASS "X" TOLERANCE.
- A 6-MIL (MIN.) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE SAND BASE AND THE CONCRETE FLOOR.
- CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER.

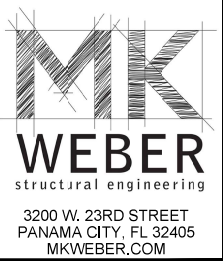
BAR SIZES	STANDARD	TOP BAR	SPURCE	HOOK
#3	13"	16"	16"	6"
#4	20"	24"	24"	8"
#5	26"	44"	44"	10"
#6	30"	60"	60"	12"
#7	52"	82"	82"	14"

**FOUNDATION**

- ALLOWABLE SOIL BEARING CAPACITY = 2,000 PSF FOR STRIP FOOTINGS (PRESUMPTIVE)
- DEPTH EMBASEMENT OF PILES IS ASSUMED USING ENGINEERING JUDGEMENT SINCE SOIL BORINGS WERE NOT PROVIDED.

**METAL ROOFING**

- 26 ga. METAL ROOF PANELS
- $S_d = 0.037$  IN<sup>2</sup>
- $I_x = 0.035$  IN<sup>4</sup>
- 80 ksi STEEL



COA # 33120



MICHAEL K. WEBER P.E.  
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 FLORIDA P.E. # 75798

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REV.	DESCRIPTION	DATE	
		DATE	DATE

JOB NUMBER: 21013-14  
 DRAWN BY: MRM  
 CHECKED BY: MKW  
 PLOT DATE: 5/23/2023

SHEET TITLE  
 STRUCTURAL NOTES  
 DRAWING NUMBER  
**S1.0**

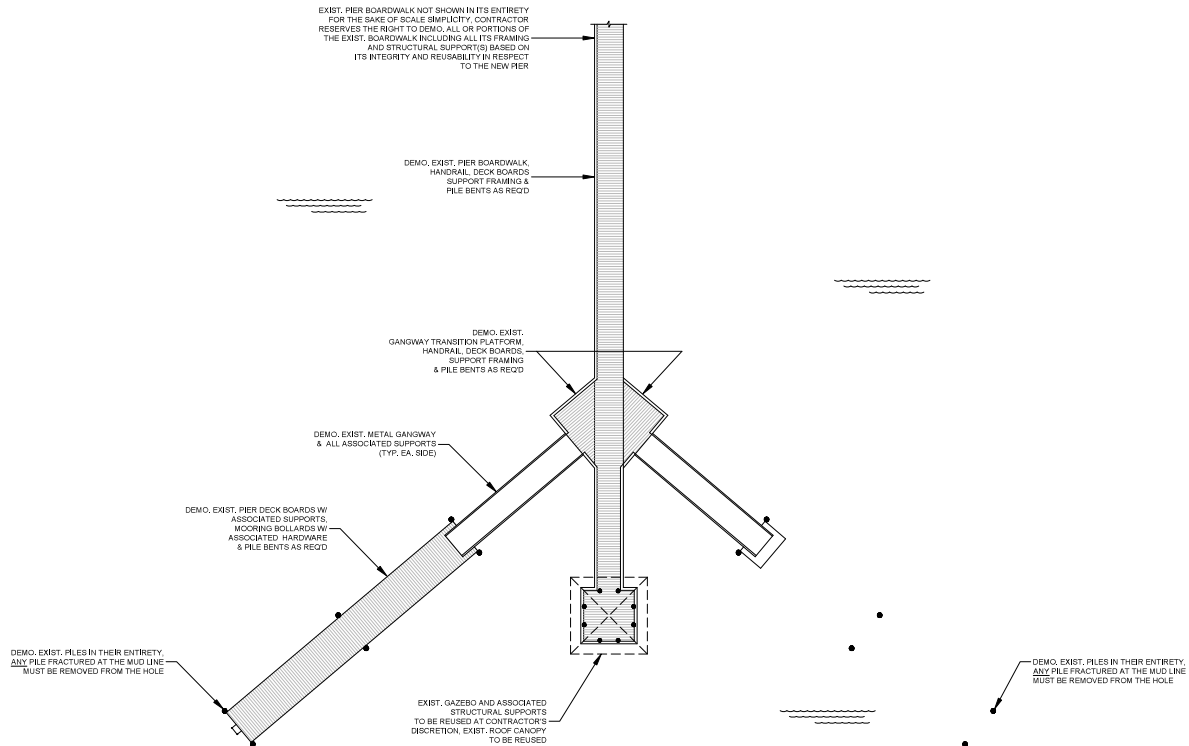
A Structural Package for: RJ Gorman Marine Wild Heron Community Dock 1110 Prospect Promenade Panama City Beach, FL 32413

**DEMOLITION NOTES**

- 1) CONTRACTOR TO DISCONNECT ALL EXIST. ELECTRICAL OUTLETS, SWITCHES & LIGHTING AND ENSURE POWER SOURCE IS COOLD AND DISCONNECTED PRIOR TO COMMENCING ANY DEMOLITION WORK (IF APPLICABLE).
- 2) CONTRACTOR TO SHUT OFF EXIST. WATER SUPPLY MAIN VALVE(S) PRIOR TO COMMENCING THE REMOVAL AND DEMOLITION OF ANY EXISTING WATER UTILITY FIXTURE(S) (i.e. VALVES, ETC.) (IF APPLICABLE).
- 3) CONTRACTOR TO REMOVE AND PROPERLY DEPOSE OF ALL EXIST. NONREUSABLE ITEMS, MATERIALS AND RUBBER. ANY HAZARDOUS MATERIAL, IF ANY, SHALL BE HANDLED PROPERLY AND SAFELY AND PROPERLY DISPOSED OF AWAY FROM THE JOBSITE.
- 4) CONTRACTOR TO MAINTAIN JOBSITE - DURING THE DEMOLITION PHASE - CLEAN AND FREE OF DEBRIS THAT MAY CONTAMINATE THE LAKE WATER AND ADJACENT SAND DUNES AS WELL AS PROPERTIES, AND MAINTAIN THE JOBSITE SAFE WITH ALL APPLICABLE OSHA AND BUILDING CODE REQUIREMENTS AND REGULATIONS.

**NOTE**

ALL EXIST. STRUCTURAL MEMBERS TO BE REUSED SHALL BE INSPECTED BY THE CONTRACTOR FOR STRUCTURAL INTEGRITY. ANY COMPROMISED STRUCTURAL MEMBER OR CONNECTION SHALL BE REPLACED IN KIND AND SIZE.



**LAKE POWELL**

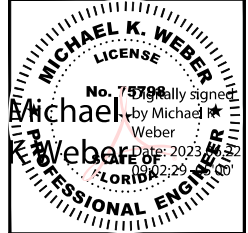
SAFE UPLAND LINE  
1.1' NAVD83

**EXISTING PIER DEMO. PLAN**  
SCALE: 3/32" = 1'-0" (11x17) NOT TO SCALE



3200 W. 23RD STREET  
PANAMA CITY, FL 32405  
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COA # 33120



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A Structural Package for: RJ Gorman Marine Wild Heron Community Dock 1110 Prospect Promenade Panama City Beach, FL 32413	DATE			
	DESCRIPTION			
REV.				

JOB NUMBER: 21013-14  
DRAWN BY: MRM  
CHECKED BY: MKW  
PLOT DATE: 5/23/2023

SHEET TITLE
EXISTING PIER DEMOLITION PLAN
DRAWING NUMBER
<b>S2.0</b>

FROM PIER BOARDWALK POINT OF ORIGINATION

FROM PIER BOARDWALK POINT OF ORIGINATION

**PILE NOTES**

- 1) PILES TAPER BETWEEN BUTT AND TIP SHALL COMPLY WITH NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (1" IN 10'-0" REF.)
- 2) PILES DESIGN VALUES TO CONFORM WITH ANS I / AFPA NDS - LATEST EDITION. ALL DESIGN WORKING STRESSES PROCEDURES SHALL COMPLY WITH ASTM D3899 AND ASTM D3330.
- 3) PILES STANDARDS PRIOR TO TREATMENT FOR DIMENSIONS, STRAIGHTNESS, KNOT SIZE & CLUSTERS SHALL COMPLY WITH ASTM D205.
- 4) PILE TREATMENT PRESERVATIVE (CCA) RETENTION FOR SOUTHERN PINE IN FRESH WATER (0.8 pcf), IN MARINE SALT WATER (2.5 pcf) PER AWWA STANDARDS.

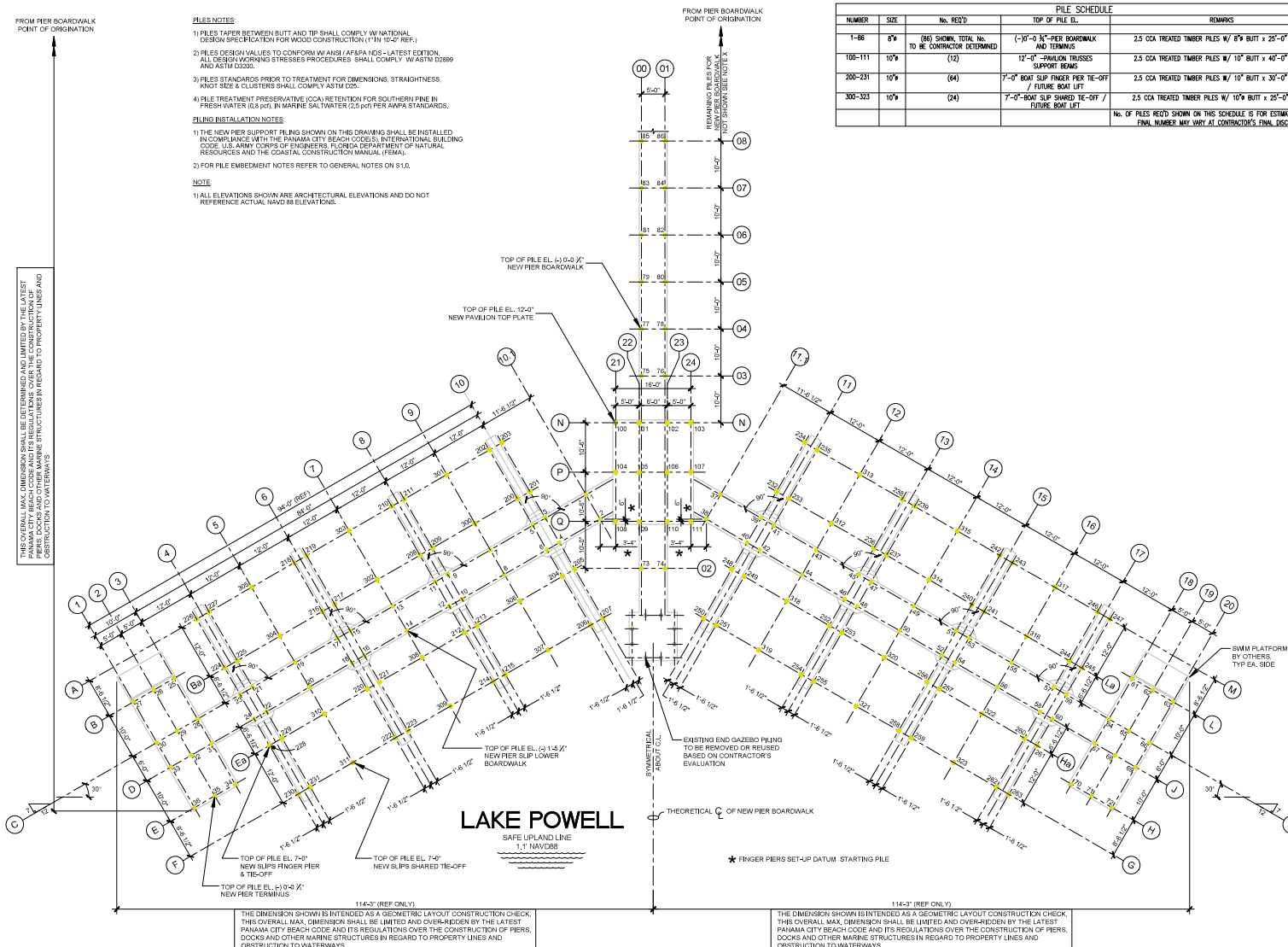
**PIILING INSTALLATION NOTES**

- 1) THE NEW PIER SUPPORT PILING SHOWN ON THIS DRAWING SHALL BE INSTALLED IN COMPLIANCE WITH THE PANAMA CITY BEACH CODE(S), INTERNATIONAL BUILDING CODE (U.S. ARMY CORPS OF ENGINEERS, FLORIDA DEPARTMENT OF NATURAL RESOURCES AND THE COASTAL CONSTRUCTION MANUAL (CCM).
- 2) FOR PILE EMBEDMENT NOTES REFER TO GENERAL NOTES ON S1.0.

**NOTE**

- 1) ALL ELEVATIONS SHOWN ARE ARCHITECTURAL ELEVATIONS AND DO NOT REFERENCE ACTUAL NAVD 88 ELEVATIONS.

THIS OVERALL MAX. DIMENSION SHALL BE DETERMINED AND LIMITED BY THE LATEST PIERE DOCK AND OTHER MARINE STRUCTURES IN REGARD TO PROPERTY LINES AND OBSTRUCTION TO WATERWAYS



NUMBER	SIZE	No. REQ'D	TOP OF PILE EL.	REMARKS
1-86	8"	(86) SHOWN, TOTAL No. TO BE CONTRACTOR DETERMINED	(-10'-0" X -2" PER BOARDWALK AND TERMINUS	2.5 CCA TREATED TIMBER PILES W/ 6" BUTT x 25'-0" LENGTH
100-111	10"	(12)	12'-0" - SPANION TRUSSES SUPPORT BEAMS	2.5 CCA TREATED TIMBER PILES W/ 10" BUTT x 40'-0" LENGTH
200-231	10"	(64)	7'-0" BOAT SLIP FINER PER TIE-OFF / FUTURE BOAT LIFT	2.5 CCA TREATED TIMBER PILES W/ 10" BUTT x 30'-0" LENGTH
300-323	10"	(24)	7'-0" BOAT SLIP SHARED TIE-OFF / FUTURE BOAT LIFT	2.5 CCA TREATED TIMBER PILES W/ 10" BUTT x 25'-0" LENGTH

No. OF PILES REQ'D SHOWN ON THIS SCHEDULE IS FOR ESTIMATING PURPOSES. FINAL NUMBER MAY VARY AT CONTRACTOR'S FINAL DISCRETION.

**MK**  
**WEBER**  
 structural engineering  
 3200 W. 23RD STREET  
 PANAMA CITY, FL 32405  
 MKWEBER.COM  
 COA # 33120

**MICHAEL K. WEBER**  
 LICENSE  
 No. 75798  
 Digitally signed by Michael K. Weber  
 Date: 2023.06.12 17:12:17  
**PROFESSIONAL ENGINEER**  
 FLORIDA

MICHAEL K. WEBER P.E.  
 STRUCTURAL ENGINEER  
 FLORIDA P.E. # 75798

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REV.	DESCRIPTION	DATE

A Structural Package for: RJ Corman Marine  
 Wild Heron Community Dock  
 1110 Prospect Promenade  
 Panama City Beach, FL, 32413

JOB NUMBER:	21013-14
DRAWN BY:	MRM
CHECKED BY:	MKW
PLOT DATE:	5/23/2023

SHEET TITLE  
 NEW PIER PILE LAYOUT PLAN  
 DRAWING NUMBER  
**S3.0**

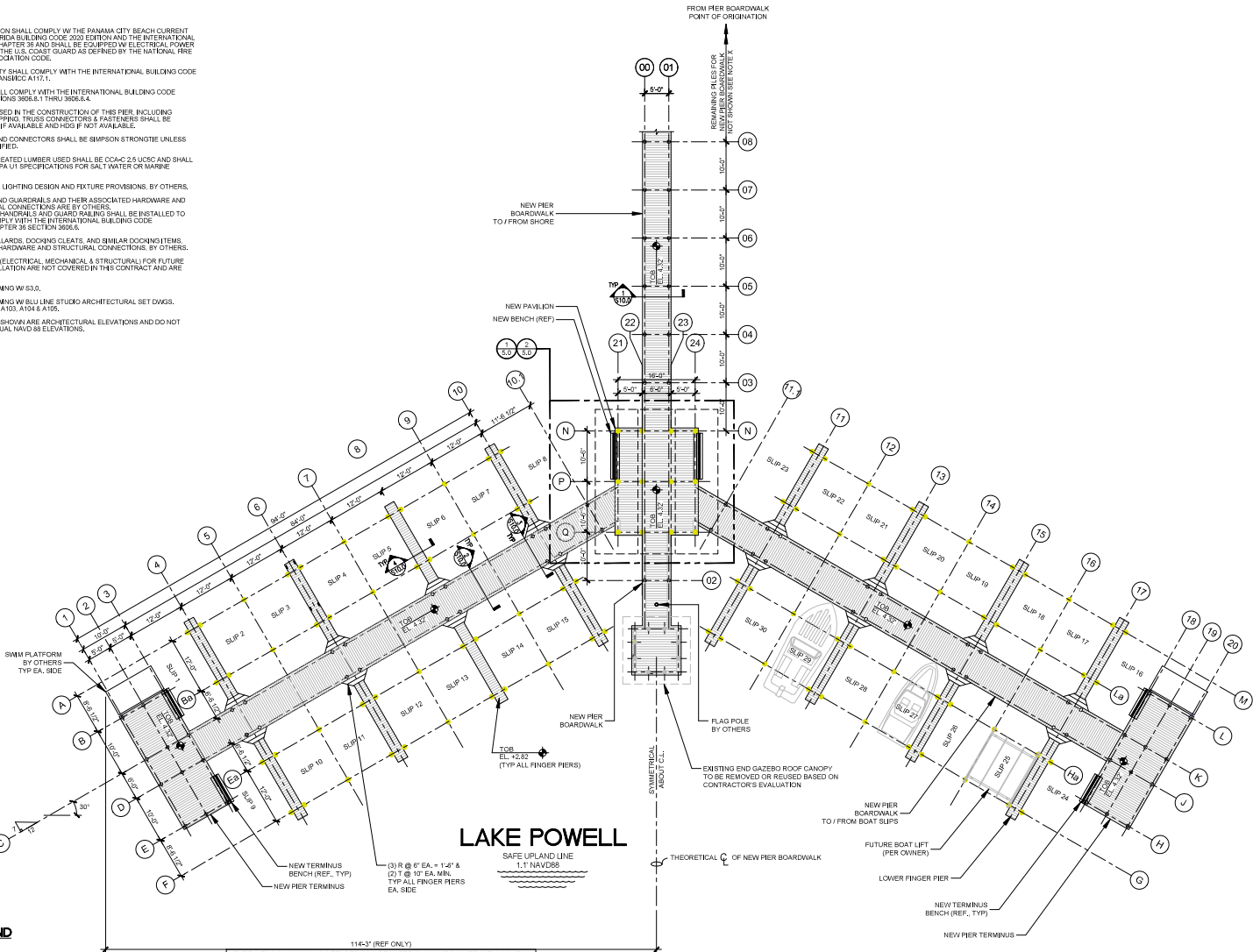
NEW PIER PILING PLAN  
 SCALE: 3/32" = 1'-0" (1/4" = 1'-0") NOT TO SCALE

THE DIMENSION SHOWN IS INTENDED AS A GEOMETRIC LAYOUT CONSTRUCTION CHECK. THIS OVERALL MAX. DIMENSION SHALL BE LIMITED AND OVER-RIDDEN BY THE LATEST PANAMA CITY BEACH CODE AND ITS REGULATIONS COVER THE CONSTRUCTION OF PIERS, DOCKS AND OTHER MARINE STRUCTURES IN REGARD TO PROPERTY LINES AND OBSTRUCTION TO WATERWAYS.

THE DIMENSION SHOWN IS INTENDED AS A GEOMETRIC LAYOUT CONSTRUCTION CHECK. THIS OVERALL MAX. DIMENSION SHALL BE LIMITED AND OVER-RIDDEN BY THE LATEST PANAMA CITY BEACH CODE AND ITS REGULATIONS COVER THE CONSTRUCTION OF PIERS, DOCKS AND OTHER MARINE STRUCTURES IN REGARD TO PROPERTY LINES AND OBSTRUCTION TO WATERWAYS.

**PIER NOTES**

- 1) PIER CONSTRUCTION SHALL COMPLY WITH THE PANAMA CITY BEACH CURRENT CODE(S), THE FLORIDA BUILDING CODE 2020 EDITION AND THE INTERNATIONAL BUILDING CODE CHAPTER 35 AND SHALL BE SUPPLIED WITH ELECTRICAL POWER AS APPROVED BY THE U.S. COAST GUARD AS DEFINED BY THE NATIONAL FIRE PROTECTION ASSOCIATION CODE.
- 2) PIER ACCESSIBILITY SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE CHAPTER 11 AND ANSI A117.1.
- 3) PIER EGRESS SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE CHAPTER 38 SECTIONS 3806.1 THROUGH 3806.4.
- 4) ALL HARDWARE USED IN THE CONSTRUCTION OF THIS PIER, INCLUDING HURRICANE STRAPPING, TRUSS CONNECTORS & FASTENERS SHALL BE STAINLESS STEEL IF AVAILABLE AND HSS IF NOT AVAILABLE.
- 5) ALL STRAPPING AND CONNECTORS SHALL BE SIMPSON STRONGTIE UNLESS OTHERWISE SPECIFIED.
- 6) ALL PRESSURE TREATED LUMBER USED SHALL BE COC-C 2.0 UCC AND SHALL COMPLY WITH AWPA U1 SPECIFICATIONS FOR SALT WATER OR MARINE APPLICATIONS.
- 7) ALL ELECTRICAL & LIGHTING DESIGN AND FIXTURE PROVISIONS, BY OTHERS.
- 8) ALL HANDRAILS AND GUARDRAILS AND THEIR ASSOCIATED HARDWARE AND THEIR STRUCTURAL CONNECTIONS ARE BY OTHERS. CAUTION ALL HANDRAILS & GUARD RAILING SHALL BE INSTALLED TO COMPLY WITH THE INTERNATIONAL BUILDING CODE CHAPTER 38 SECTION 3806.6.
- 9) ALL MOORING BOLLARDS, DOCKING CLEATS, AND SIMILAR DOCKING ITEMS, ALL ASSOCIATED HARDWARE AND STRUCTURAL CONNECTIONS, BY OTHERS.
- 10) ALL PROVISIONS (ELECTRICAL, MECHANICAL & STRUCTURAL) FOR FUTURE BOAT LIFT INSTALLATION ARE NOT COVERED IN THIS CONTRACT AND ARE BY OTHERS.
- 11) WORK THIS DRAWING WITH S3.0.
- 12) WORK THIS DRAWING WITH BLUE LINE STUDIO ARCHITECTURAL SET DWGS. 2021, AND 2102, 2103, 2105, 2106, 2107, 2108.
- 13) ALL ELEVATIONS SHOWN ARE ARCHITECTURAL ELEVATIONS AND DO NOT REFERENCE ACTUAL NAVD 88 ELEVATIONS.



**LAKE POWELL**

SAFE UPLAND LINE  
1.1' NAVD88

(3) R @ 6' EA. = 1'-2" &  
(2) T @ 6' EA. MIN.  
TYP. ALL FINGER PIERS  
EA. SIDE

THE DIMENSION SHOWN IS INTENDED AS A GEOMETRIC LAYOUT CONSTRUCTION CHECK. THIS OVERALL MAX. DIMENSION SHALL BE LIMITED AND OVERRIDDEN BY THE LATEST PANAMA CITY BEACH CODE AND ITS REGULATIONS OVER THE CONSTRUCTION OF PIERS, DOCKS AND OTHER MARINE STRUCTURES IN REGARD TO PROPERTY LINES AND OBSTRUCTION TO WATERWAYS.

**NEW PIER END LAYOUT - PLAN**

SCALE: 3/32" = 1'-0" (11x17) NOT TO SCALE

- LEGEND**
- PILE (VISIBLE)
  - PILE (HIDDEN)
  - LOW EL. X-X' SURFACE ELEVATION
  - TOD TOP OF DECK BOARDS

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COA # 33120

**MICHAEL K. WEBER**  
LICENSE  
No. 75798  
Digitally signed by Michael K. Weber  
Weber  
Date: 2023.08.22.09  
PROFESSIONAL ENGINEER  
FLORIDA

MICHAEL K. WEBER P.E.  
STRUCTURAL ENGINEER  
FLORIDA P.E. # 75798

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REV.	DATE	DESCRIPTION

JOB NUMBER: 21013-11  
DRAWN BY: MRM  
CHECKED BY: MKW  
PLOT DATE: 5/23/2023

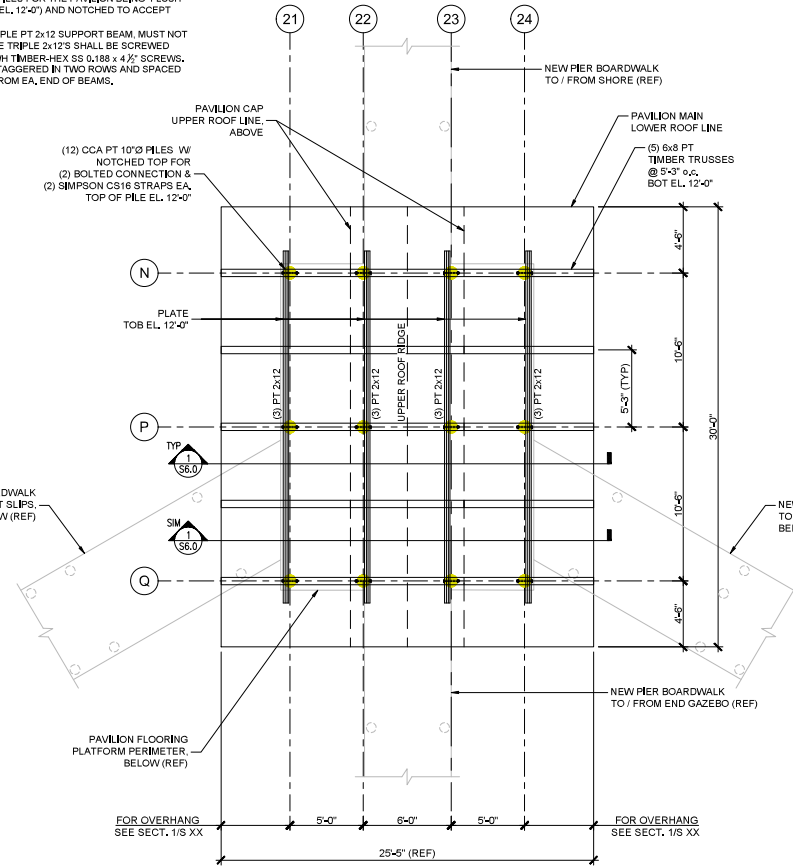
SHEET TITLE  
NEW PIER END LAYOUT  
BOARDWALK, PAVILION  
& BOAT SLIPS PLAN

DRAWING NUMBER  
**S4.0**



**NOTES:**

- REFER TO THE GENERAL NOTES ON SHEET S1.0 FOR ALL DESIGN NOTES AND SPECIFICATIONS NOT ON THIS DRAWING.
- WORK THIS DRAWING WITH THE ARCHITECTURAL SET DWGS. A201, A202 & A301.
- AN ELEVATION DISCREPANCY EXISTS BETWEEN THE ARCHITECTURAL SET AND THE STRUCTURAL SET @ THE TRUSSES SUPPORT BEAMS. THIS IS DUE TO THE TOP OF PILES FOR THE PAVILION BEING FLUSH WITH THE SUPPORT BEAMS (EL. 12'-0") AND NOTCHED TO ACCEPT THE TRIPLE 2x12 BEAMS.
- TRUSS SUPPORT BEAMS, TRIPLE PT 2x12 SUPPORT BEAM, MUST NOT HAVE MID-SPAN SPLICES. THE TRIPLE 2x12'S SHALL BE SCREWED TOGETHER WITH SIMPSON SDWH TIMBER-HEX SS 0.188 x 4 7/8" SCREWS. THESE SCREWS SHALL BE STAGGERED IN TWO ROWS AND SPACED @ 17" o.c. AND 2' DISTANCE FROM EA. END OF BEAMS.

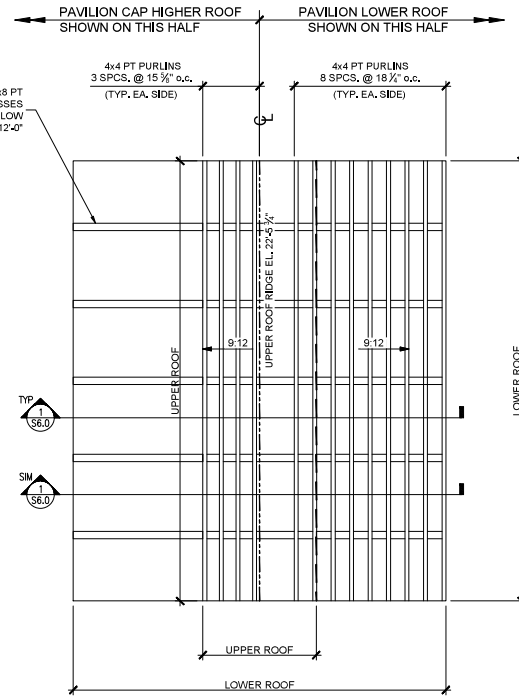


PAVILION TOP PLATE & ROOF FRAMING PLAN

**DETAIL**  
SCALE: 1/4"=1'-0" SCALE: 1/8"=1'-0" (11x17) 1 N

**LEGEND**

- PILE (VISIBLE)
- PILE (HIDDEN)
- TOP OF BEAM
- BOTTOM OF TRUSS



PAVILION ROOF FRAMING PLAN @ PURLINS

**DETAIL**  
SCALE: 1/4"=1'-0" SCALE: 1/8"=1'-0" (11x17) 2 N

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COA # 33120

**MICHAEL K. WEBER**  
LICENSE  
No. 75798  
Michael K. Weber  
Date: 2023.08.18  
PROFESSIONAL ENGINEER  
FLORIDA

MICHAEL K. WEBER P.E.  
STRUCTURAL ENGINEER  
FLORIDA P.E. # 75798

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REV.	DESCRIPTION	DATE
1	REMOVED BACK BALCONY ADDED PATIO ROOF	9-21-21

A Structural Package for: RJ Corman Marine  
Wild Heron Community Dock  
1110 Prospect Promenade  
Panama City Beach, FL, 32413

JOB NUMBER:	21013-14
DRAWN BY:	MRM
CHECKED BY:	MKW
PLOT DATE:	5/23/2023

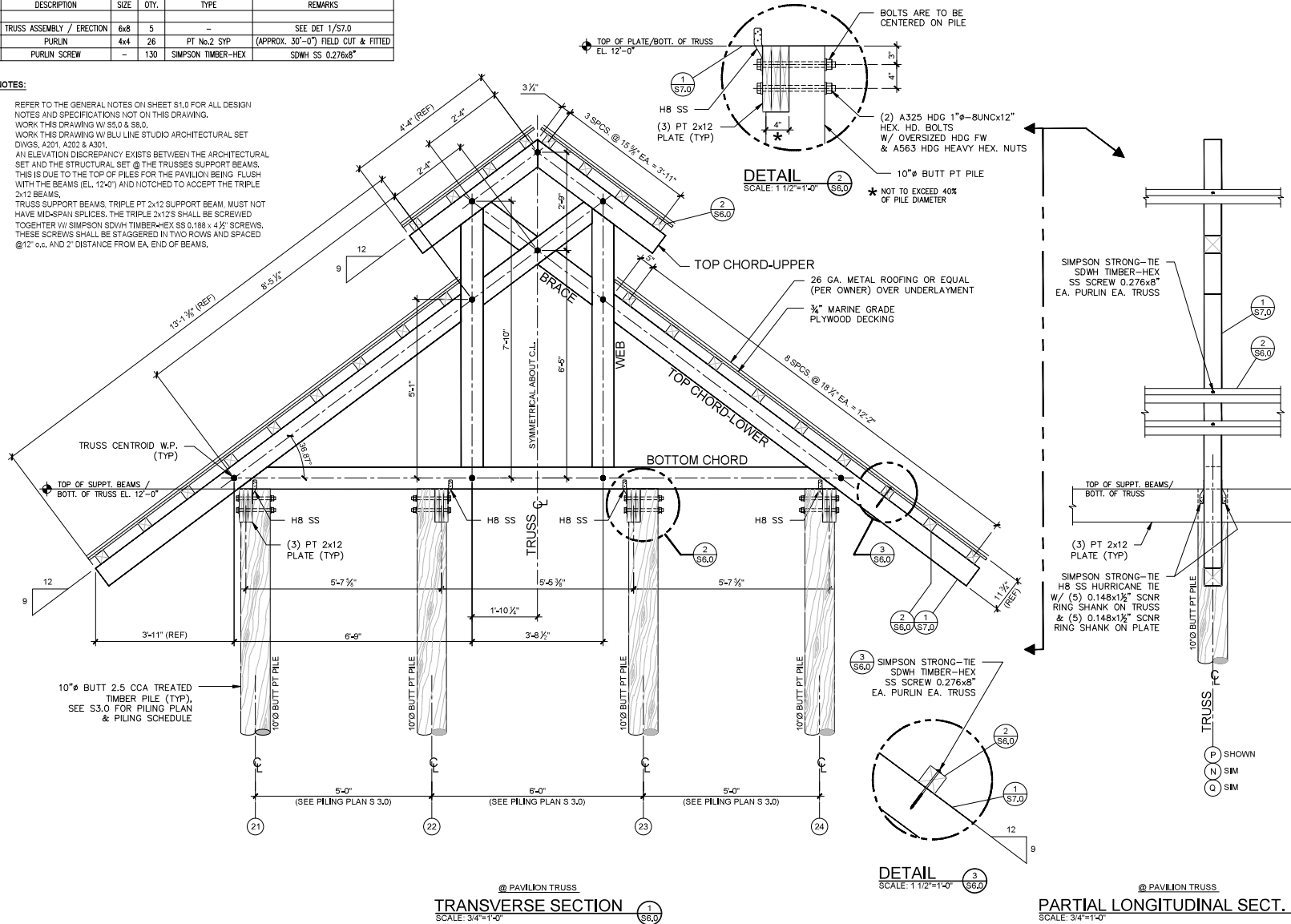
SHEET TITLE  
NEW PIER END LAYOUT  
PAVILION SUPPORT BEAMS  
& ROOF FRAMING PLAN

DRAWING NUMBER  
**S5.0**

PAVILION ROOF ITEM LIST				
ITEM	DESCRIPTION	SIZE	QTY.	REMARKS
1	TRUSS ASSEMBLY / ERECTION	6x8	5	SEE DET 1/S7.0
2	PURLIN	4x4	26	PT No.2 SYP (APPROX. 30'-0") FIELD CUT & FITTED
3	PURLIN SCREW	-	130	SIMPSON TIMBER-HEX SDWH SS 0.276x8"

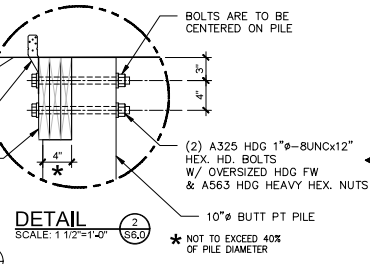
**NOTES:**

- REFER TO THE GENERAL NOTES ON SHEET S1.0 FOR ALL DESIGN NOTES AND SPECIFICATIONS NOT ON THIS DRAWING.
- WORK THIS DRAWING W/ S5.0 & S8.0.
- WORK THIS DRAWING W/ BLU LINE STUDIO ARCHITECTURAL SET DWGS, A301, A302 & A303.
- AN ELEVATION DISCREPANCY EXISTS BETWEEN THE ARCHITECTURAL SET AND THE STRUCTURAL SET @ THE TRUSSES SUPPORT BEAMS. THIS IS DUE TO THE TOP OF PILES FOR THE PAVILION BEING FLUSH WITH THE BEAMS (EL. 12'-0") AND NOTCHED TO ACCEPT THE TRIPLE 2x12 BEAMS.
- TRUSS SUPPORT BEAMS, TRIPLE PT 2x12 SUPPORT BEAM, MUST NOT HAVE MID-SPAN SPLICES. THE TRIPLE 2x12S SHALL BE SCREWED TOGETHER W/ SIMPSON SDWH-TIMBER-HEX SS 0.188 x 4" SCREWS. THESE SCREWS SHALL BE STAGGERED IN TWO ROWS AND SPACED @ 12" o.c. AND 2" DISTANCE FROM EA. END OF BEAMS.

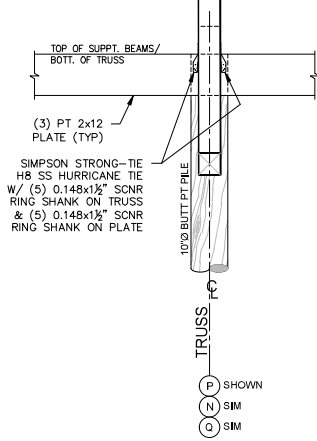
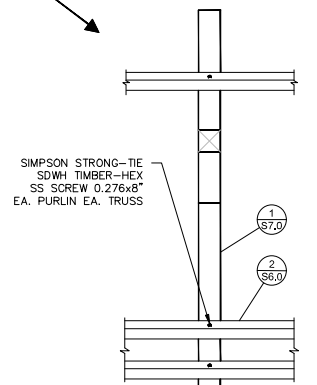


@ PAVILION TRUSS  
**TRANSVERSE SECTION**  
 SCALE: 3/4"=1'-0" (1)

@ PAVILION TRUSS  
**PARTIAL LONGITUDINAL SECT.**  
 SCALE: 3/4"=1'-0" (1A)



**DETAIL 1**  
 SCALE: 1 1/2"=1'-0" (2)



**DETAIL 3**  
 SCALE: 1 1/2"=1'-0" (3)

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 MKWEBER.COM

COA # 33120

Michael K. Weber  
 No. 75798  
 Digitally signed by Michael K. Weber  
 on 2023.09.08 10:50:40  
 PROFESSIONAL ENGINEER

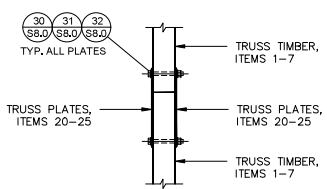
MICHAEL K. WEBER P.E. STRUCTURAL ENGINEER FLORIDA P.E. # 75798	
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DATE	
DESCRIPTION	
REV.	

A Structural Package for: R.J. Gorman Marine  
 Wild Heron Community Dock  
 1110 Prospect Promenade  
 Panama City Beach, FL, 32413

JOB NUMBER:	21013-14
DRAWN BY:	MRM
CHECKED BY:	MKW
PLOT DATE:	5/23/2023
SHEET TITLE	
SECTIONS & DETAILS	
DRAWING NUMBER	
<b>S6.0</b>	

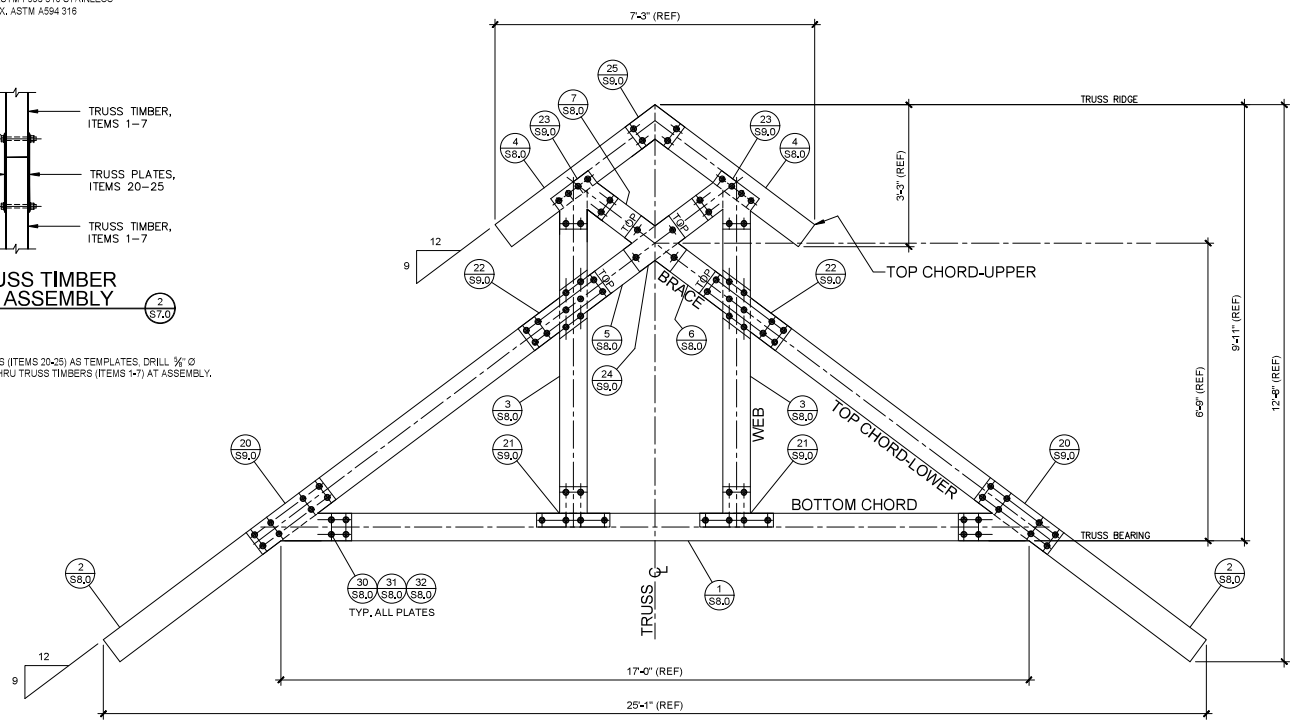
TRUSS TIMBERS (ONE TRUSS ASS'Y)				TRUSS PLATES (ONE TRUSS ASS'Y)				TRUSS PLATES HARDWARE (ONE TRUSS ASS'Y)						
ITEM	DESCRIPTION	SIZE	TYPE	REMARKS	ITEM	DESCRIPTION	QTY.	TYPE	REMARKS	ITEM	DESCRIPTION	QTY.	TYPE	REMARKS
1	BOTTOM CHORD	6x8	PT No.2 SYP	SEE DET 1/S8.0	20	BOTTOM CHORD TO TOP CHORD (LOWER)	4	ASTM 240 316 SS	SEE DET 20/S8.0	30	3/8"-11 UNC x 8"	84	HEX. HD. BOLT	ASTM F593 316 SS
2	TOP CHORD (LOWER)	6x8	II	SEE DET 2/S8.0	21	BOTTOM CHORD TO WEB	4	II	SEE DET 21/S8.0	31	3/8"-11 UNC	84	HEAVY HEX. NUT	ASTM A594 316 SS
3	WEB	6x8	II	SEE DET 3/S8.0	22	TOP CHORD TO WEB & BRACE	4	II	SEE DET 22/S8.0	32	3/8" FLAT WASHER	168	OVERSIZE, HEAVY	18-8 SS
4	TOP CHORD (UPPER)	6x8	II	SEE DET 4/S8.0	23	WEB & BRACE TO TOP CHORD (UPPER)	4	II	SEE DET 23/S8.0					
5	BRACE	6x8	II	SEE DET 5/S8.0	24	BRACE TO BRACE	2	II	SEE DET 24/S8.0					
6	BRACE	6x8	II	SEE DET 6/S8.0	25	TOP CHORD RIDGE (UPPER)	2	II	SEE DET 25/S8.0					
7	BRACE	6x8	II	SEE DET 7/S8.0										

- NOTES:**
- REFER TO THE GENERAL NOTES ON SHEET S1.0 FOR ALL DESIGN NOTES AND SPECIFICATIONS NOT ON THIS DRAWING.
  - WORK THIS DRAWING W/ S8.0 & S8.0.
  - WORK THIS DRAWING W/ BLUELINE STUDIO ARCHITECTURAL SET DWGS, A201, A202 & A301.
  - ALL TRUSS COMPONENTS BOLTS SHALL BE ASTM F593 316 STAINLESS STEEL. ALL NUTS SHALL BE HEAVY HEX, ASTM A594 316 STAINLESS STEEL (OR BETTER).



**TYP. TRUSS TIMBER & PLATE ASSEMBLY**  
SCALE: 3/4"=1'-0"

- NOTES:**
- USING TRUSS PLATES (ITEMS 20-25) AS TEMPLATES. DRILL 3/16" CLEARANCE HOLE THRU TRUSS TIMBERS (ITEMS 1-7) AT ASSEMBLY.



@ NEW PAVILION  
**TRUSS ASSEMBLY**  
SCALE: 3/4"=1'-0"

No. REQ'D: (5)

**WEBER**  
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PANAMA CITY, FL 32405  
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COA # 33120

**MICHAEL K. WEBER**  
LICENSE  
No. 75798  
Michael K. Weber  
Date: 2023-04-20  
PROFESSIONAL ENGINEER  
FLORIDA

**MICHAEL K. WEBER P.E.**  
STRUCTURAL ENGINEER  
FLORIDA P.E. # 75798

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DATE	DATE
DESCRIPTION	DESCRIPTION
REV.	REV.

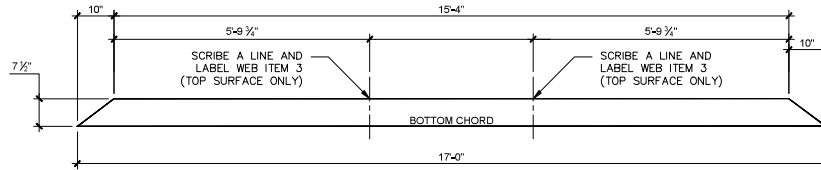
A Structural Package for: R.J. Gorman Marine  
**Wild Heron Community Dock**  
1110 Prospect Promenade  
Panama City Beach, FL, 32413

JOB NUMBER:	21013-14
DRAWN BY:	MRM
CHECKED BY:	MKW
PLOT DATE:	5/23/2023

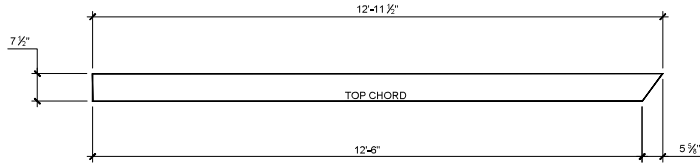
SHEET TITLE	TRUSS ASSEMBLY / ERECTION
DRAWING NUMBER	S7.0

**NOTES:**

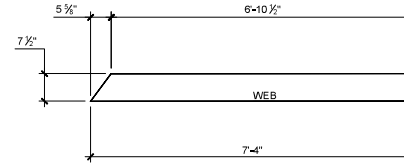
- REFER TO THE GENERAL NOTES ON SHEET S1.0 FOR ALL DESIGN NOTES AND SPECIFICATIONS NOT ON THIS DRAWING.
- WORK THIS DRAWING W/ S&D & S7.0.
- WORK THIS DRAWING W/ BLU LINE STUDIO ARCHITECTURAL SET DWGS, A201, A202 & A301.



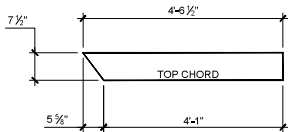
**DETAIL-ITEM 1**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(1) PER TRUSS  
TOTAL No. REQ'D: (5)



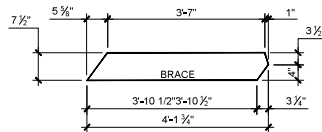
**DETAIL-ITEM 2**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(2) PER TRUSS  
TOTAL No. REQ'D: (10)



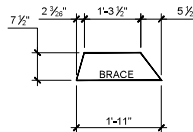
**DETAIL-ITEM 3**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(2) PER TRUSS  
TOTAL No. REQ'D: (10)



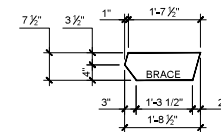
**DETAIL-ITEM 4**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(2) PER TRUSS  
TOTAL No. REQ'D: (10)



**DETAIL-ITEM 5**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(1) PER TRUSS  
TOTAL No. REQ'D: (5)



**DETAIL-ITEM 6**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(1) PER TRUSS  
TOTAL No. REQ'D: (5)



**DETAIL-ITEM 7**  
SCALE: 3/4"=1'-0"  
MAT'L: 6x8 PT No.2 SYM  
(1) PER TRUSS  
TOTAL No. REQ'D: (5)

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COA # 33120

Michael K. Weber  
Professional Engineer  
No. 75798  
Date: 2023-09-11 13:37

MICHAEL K. WEBER P.E.  
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FLORIDA P.E. # 75798

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REV.	DESCRIPTION	DATE

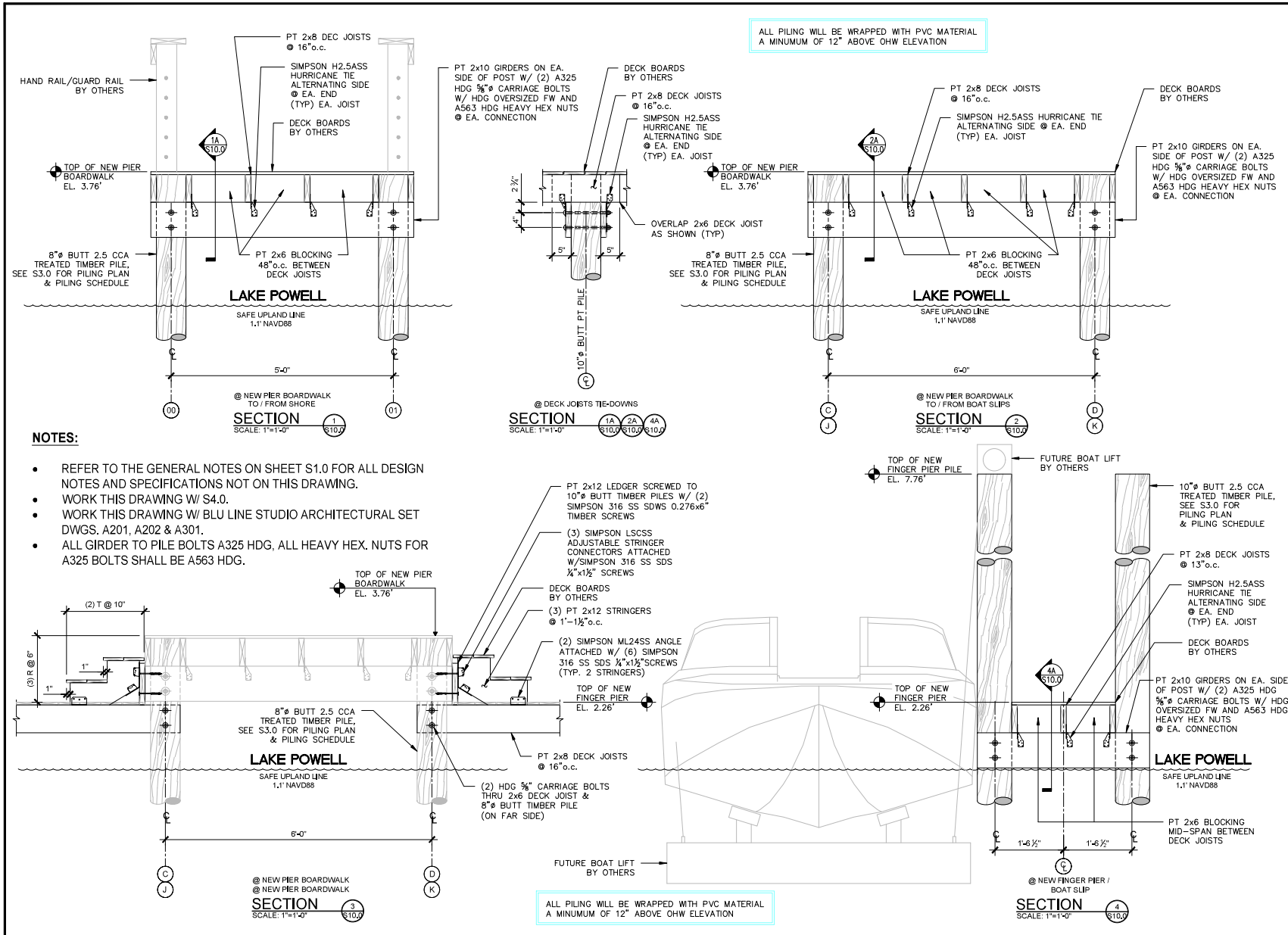
A Structural Package for: R.J. Gorman Marine  
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1110 Prospect Promenade  
Panama City Beach, FL, 32413

JOB NUMBER: 21013-14  
DRAWN BY: MRM  
CHECKED BY: MKW  
PLOT DATE: 5/23/2023

SHEET TITLE  
TRUSS ASSEMBLY  
TRUSS TIMBERS  
CUT DETAILS

DRAWING NUMBER  
**S8.0**





**MK**  
**WEBER**  
 structural engineering

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 PANAMA CITY, FL 32405  
 MKWEBER.COM

COA # 33120

**MICHAEL K. WEBER**  
 LICENSE  
 No. 75798  
 Digitally signed by Michael K Weber  
 Date: 2023.08.22 10:21:05  
 PROFESSIONAL ENGINEER  
 FLORIDA

MICHAEL K. WEBER P.E.  
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 FLORIDA P.E. # 75798

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A Structural Package for: RJ Gorman Marine  
 Wild Heron Community Dock  
 1110 Prospect Promenade  
 Panama City Beach, FL. 32413

JOB NUMBER:	21015-14
DRAWN BY:	MRM
CHECKED BY:	MKW
PLOT DATE:	5/23/2023

SHEET TITLE  
 SECTIONS & DETAILS  
 DRAWING NUMBER  
**S10.0**