

# GALT PRESERVE BOARDWALK REPAIRS

## FOR

# FEMA DI# 1291095 LEE COUNTY, FLORIDA

3661 STRINGFELLOW ROAD, SAINT JAMES CITY, FL 33956

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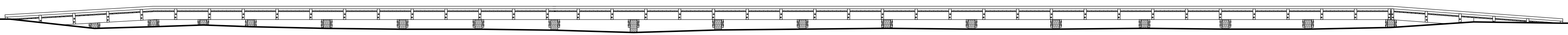


JOHNSON ENGINEERING, INC.  
2122 JOHNSON STREET  
FORT MYERS, FLORIDA 33901  
PHONE: (239) 334-0046  
E.B. #642 & L.B. #642



WEILER ENGINEERING CORP.  
201 WEST MARION AVENUE SUITE  
1306 PUNTA GORDA, FLORIDA 33950  
PHONE: (941) 505-1700  
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Max Morgan,  
Professional Engineer,  
State of Florida,  
License No. 94877  
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<b>Community Development Department</b> 1800 Monroe Street, Fort Myers, FL 33901 Building Phone: 239.333.8885   Building Fax: 239.488.8344 Zoning Phone: 239.333.8349   Zoning Fax: 239.488.8344 www.lee.gov		<b>For Office Use Only</b> Permit Number 20 Application Data
<b>COMMERCIAL DATA SUMMARY SHEET</b> Florida Building Code 8th Edition (2023)		
<b>OWNER NAME:</b> LEE COUNTY BOCC <b>PROJECT ADDRESS:</b> 3661 STRINGFELLOW ROAD, SAINT JAMES CITY, FL 33956		
<b>Chapter 3 - Use and Occupancy Classification</b> Section 302. Classification(s) <b>U</b>		
<b>Chapter 4 - Special Detailed Requirements Based on Use and Occupancy</b> Section# <b>N/A</b> Title <b>N/A</b>		
Section 401.2 Additional Design Criteria: Special Requirements <b>N/A</b>		
<b>General Building Limitations - Table 903</b> <input type="checkbox"/> Sprinklered <input checked="" type="checkbox"/> Unsprinklered		
Occupancy Classification (Group): <b>U</b> Type of Construction: <b>V-B</b> Area Tabulation		
Area Actual <b>886</b> sq.ft Allowable <b>N/A</b> sq.ft Area Modification: (Sec.506) <b>N/A</b> Conditioned <b>0</b> sq.ft		
Stories Actual <b>N/A</b> Allowable <b>N/A</b> Other <b>0</b> sq.ft		
Height Actual <b>N/A</b> ft Allowable <b>N/A</b> ft Height Modification: (Sec.504) <b>N/A</b> Total <b>886</b> sq.ft		
<b>Structural Design (Chapter 16)</b> Floor Design: Live Load <b>100</b> p.s.f (Table 1607.1) Dead Load <b>20</b> p.s.f (Section 1608) Roof Design: Live Load <b>N/A</b> p.s.f (Sec. 1607.13) Dead Load <b>N/A</b> p.s.f (Section 1608) Load Combinations <b>N/A</b> (Section 1609)		
<b>Design Data:</b> <input type="checkbox"/> Florida Building Code, 8th Ed (2023) Section 1609 <input checked="" type="checkbox"/> ASCE 7-22 <input type="checkbox"/> Other:		
Internal Pressure GCp1 <input type="checkbox"/> Enclosed <input type="checkbox"/> Partially Enclosed <input checked="" type="checkbox"/> Open Risk Category <b>II</b> Flood Zone <b>AE-8</b>		
Basic Wind Speed (Vult) <b>147</b> mph (Section 1609.3) Nominal Design Wind Speed (Vasd) <b>114</b> m.p.h.		
Exposure Category Section (1609.4) <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D Soil Design Load-Bearing Value <b>8" PILE: 4 TONS, 10" PILE: 8 TONS</b>		
<b>Window and Door Wind Pressure Design Loadings:</b> Mean roof height: <b>N/A</b> ft Windows <b>N/A</b> p.s.f Doors <b>N/A</b> p.s.f Garage Doors <b>N/A</b> p.s.f		
Component and Cladding design pressure for openings shall be indicated on floor plan at each individual opening or provide worst case		

PREPARED BY

**THE WEILER ENGINEERING CORPORATION**

201 WEST MARION AVENUE  
SUITE 1306  
PUNTA GORDA, FLORIDA 33950  
E.B # 6656  
PHONE - 941-505-1700  
FAX - 941-505-1702

I certify to the best of my knowledge and belief that these plans and specifications have been designed to comply with the structural portion of the Building Code for wind, flood and gravity loads as amended and enforced by the permitting jurisdiction.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Architect / Engineer Seal  
 10/2024 jg

**THE WEILER ENGINEERING CORPORATION**  
 These plans are in Compliance with Florida Building Code 2023 for wind parameters indicated.

**WIND PARAMETERS**  
 Method of Design: ASCE 7-22  
 Building Risk Category: II  
 Design Wind Speed: Ultimate  $V_{ult}$ =147 MPH / Nominal  $V_{asd}$  = 114 MPH  
 Wind Importance Factor: 1.0 / Wind Exposure: D  
 Internal Pressure Coefficient: ±0.00 (Open)  
 Component & Cladding Wind Pressure: per Calcs

**FLOOD PARAMETERS**  
 FEMA FIRM Map Number: 12071C0390G  
 Base Flood Elevation: AE-8  
 100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)  
**GEOTECHNICAL PARAMETERS**  
 Data Source: TIERRA PROJECT NO. 6511-23-232  
 Vertical Bearing Capacity: 8"PILE:4 TONS, 10" PILE: 5 TONS  
 Lateral Bearing Pressure: 1 TON PER PILE

GALT PRESERVE  
 BOARDWALK REPAIRS  
 FOR  
 LEE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION	DATE

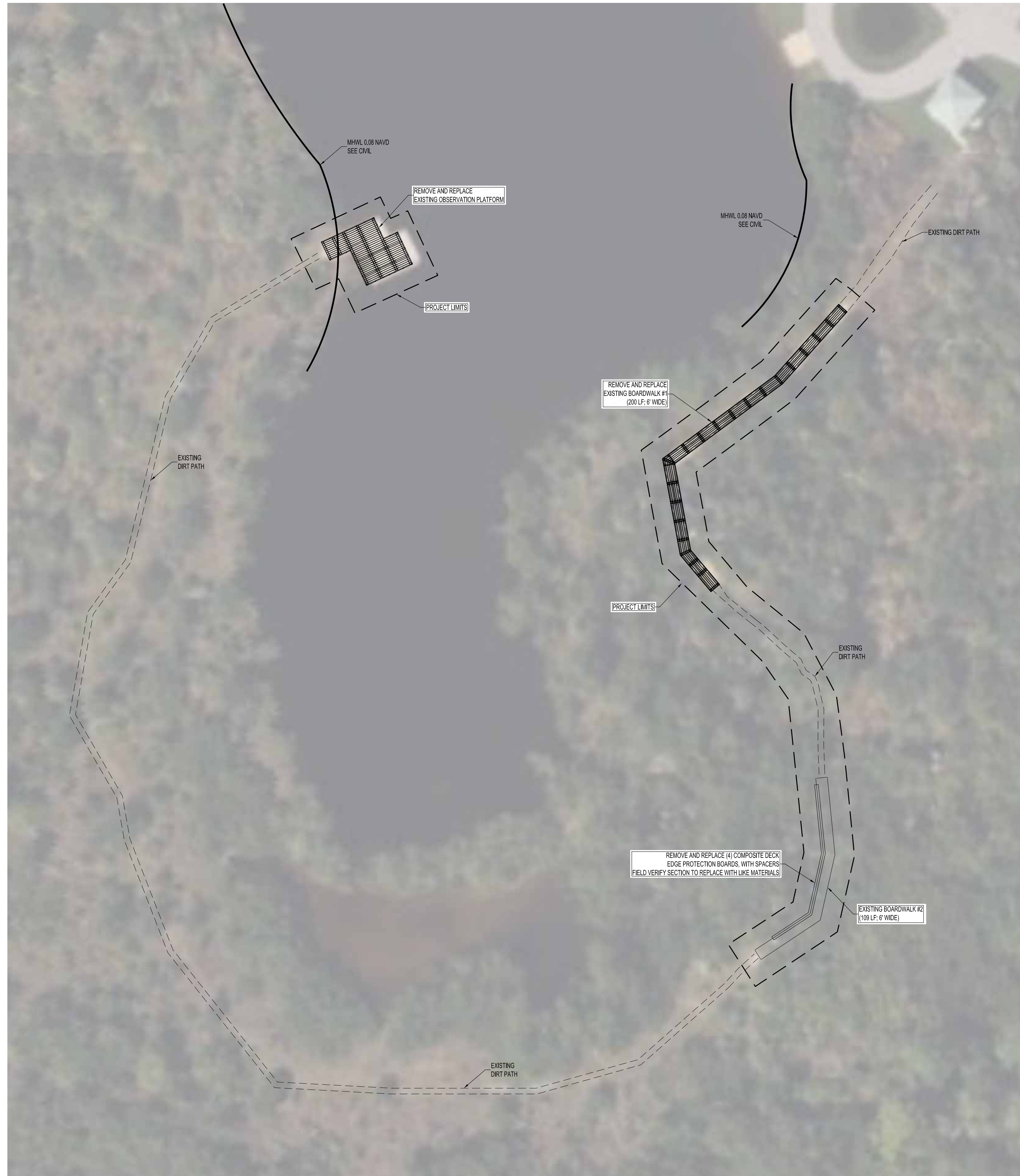
DATE: 10/31/2024  
 PROJECT NO. 23095.001  
 FILE NO. DI # 1291095  
 SCALE: N/A

COVER SHEET

SHEET NUMBER

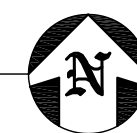
**G100.0**





AERIAL

1/32" = 1'-0"



NOTE

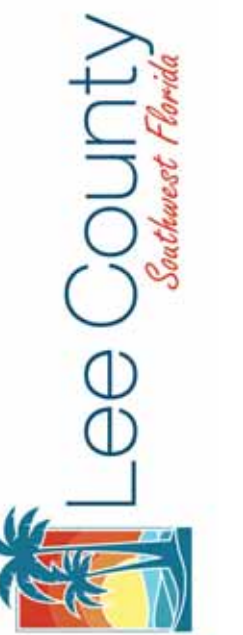
REFER TO CIVIL TO VERIFY MEAN HIGH WATER LINE (MHWL)

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NO.	DESCRIPTION	DATE

DATE: 10/31/2024  
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 FILE NO. DI # 1291095  
 SCALE: 1/32" = 1'-0"

AERIAL PLAN

SHEET NUMBER

**S001.0**

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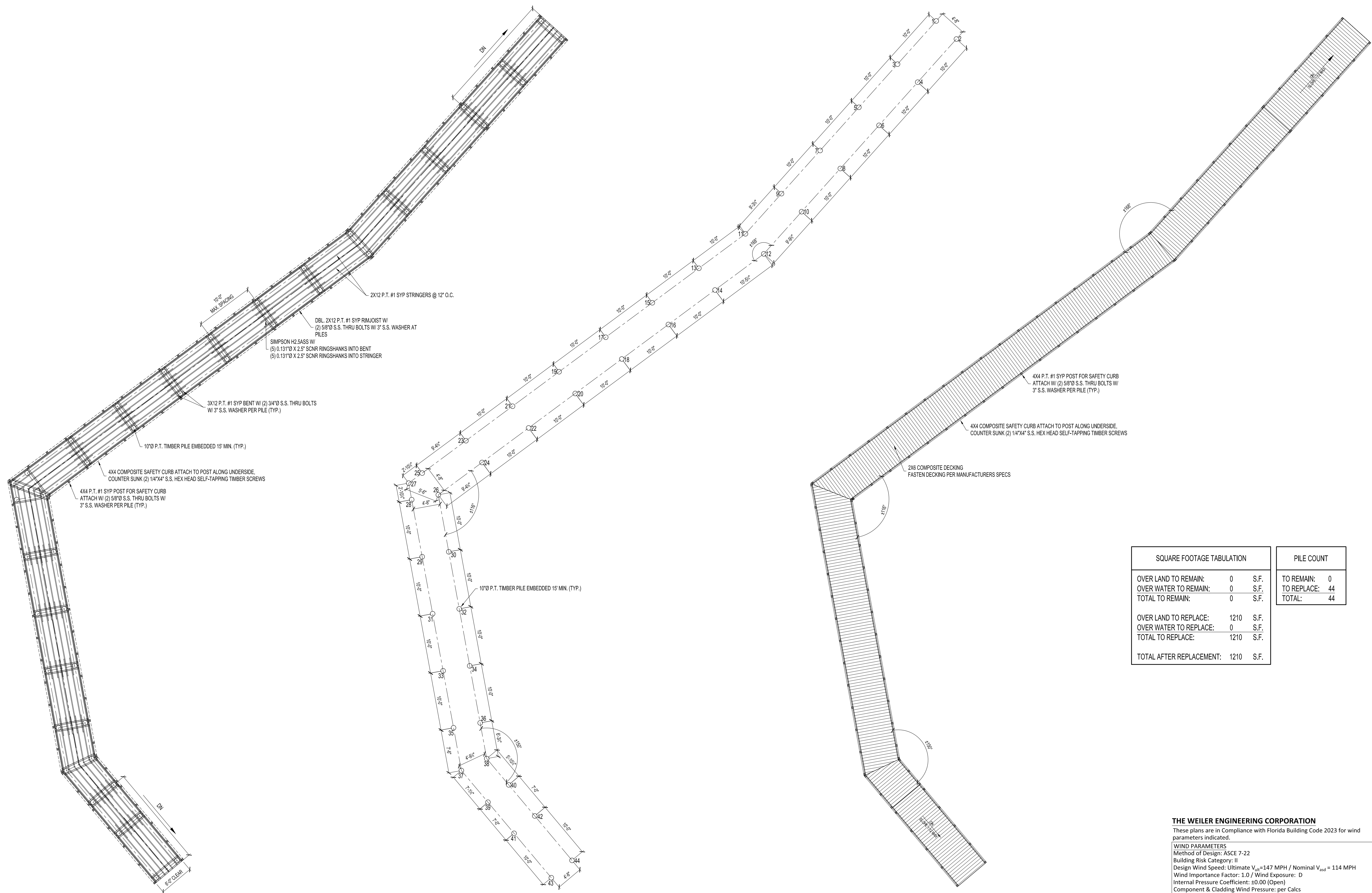
**GALT PRESERVE BOARDWALK REPAIRS FOR LEE COUNTY, FLORIDA**

NO.	DESCRIPTION	DATE

DATE: 10/31/2024  
PROJECT NO. 23095.001  
FILE NO. DI # 1291095  
SCALE: 1/8" = 1'-0"

**BOARDWALK #1 FRAMING & DECKING PLAN**

SHEET NUMBER  
**S100.0**



SQUARE FOOTAGE TABULATION		PILE COUNT	
OVER LAND TO REMAIN:	0 S.F.	TO REMAIN:	0
OVER WATER TO REMAIN:	0 S.F.	TO REPLACE:	44
TOTAL TO REMAIN:	0 S.F.	TOTAL:	44
OVER LAND TO REPLACE:	1210 S.F.		
OVER WATER TO REPLACE:	0 S.F.		
TOTAL TO REPLACE:	1210 S.F.		
TOTAL AFTER REPLACEMENT:	1210 S.F.		

**THE WEILER ENGINEERING CORPORATION**  
These plans are in Compliance with Florida Building Code 2023 for wind parameters indicated.

**WIND PARAMETERS**  
Method of Design: ASCE 7-22  
Building Risk Category: II  
Design Wind Speed: Ultimate  $V_{ult}$  = 147 MPH / Nominal  $V_{50}$  = 114 MPH  
Wind Importance Factor: 1.0 / Wind Exposure: D  
Internal Pressure Coefficient: +0.00 (Open)  
Component & Cladding Wind Pressure: per Calcs

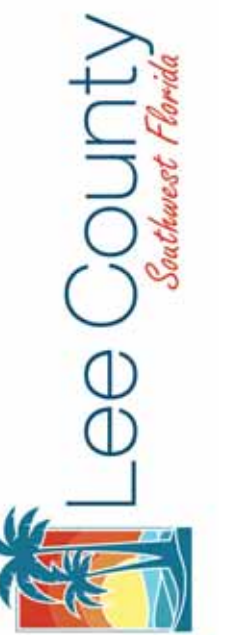
**FLOOD PARAMETERS**  
FEMA FIRM Map Number: 12071C0390G  
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100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)  
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Data Source: TIERRA PROJECT NO. 6511-23-232  
Vertical Bearing Capacity: 8" PILE: 4 TONS, 10" PILE: 5 TONS  
Lateral Bearing Pressure: 1 TON PER PILE

**BOARDWALK #1 FRAMING PLAN** 1/8" = 1'-0"

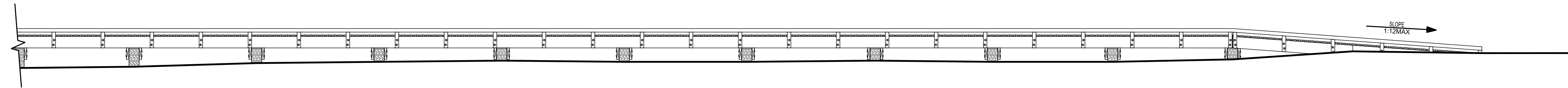
**BOARDWALK #1 PILING PLAN** 1/8" = 1'-0"

**BOARDWALK #1 DECKING PLAN** 1/8" = 1'-0"

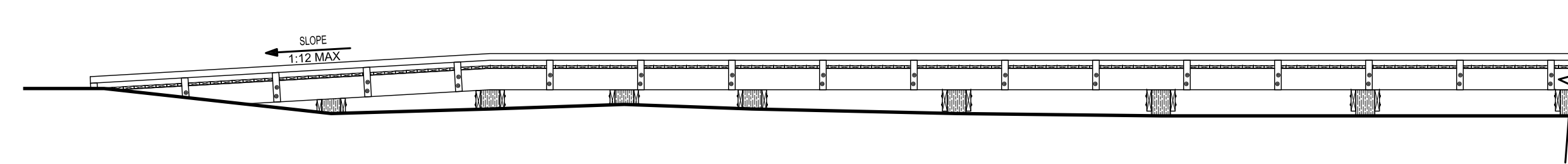
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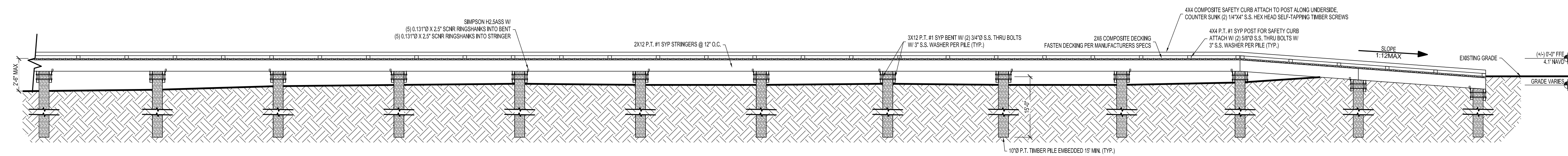
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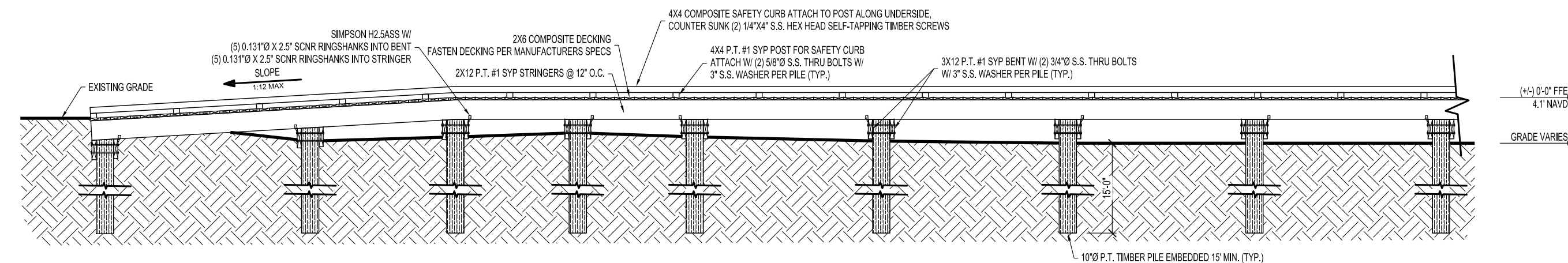
**BOARDWALK #1 ELEVATION**  
3/16" = 1'-0"



**BOARDWALK #1 ELEVATION**  
3/16" = 1'-0"



**A BOARDWALK #1 SECTION**  
3/16" = 1'-0"



**B BOARDWALK #1 SECTION**  
3/16" = 1'-0"

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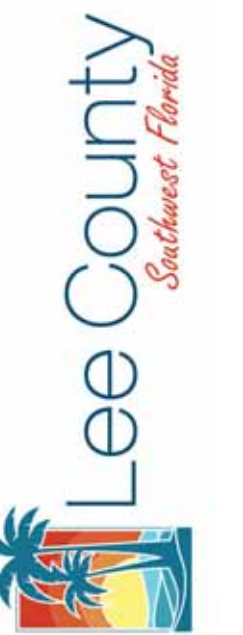
NO.	DESCRIPTION	DATE

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PROJECT NO. 23095.001  
FILE NO. DI # 1291095  
SCALE: 3/16" = 1'-0"

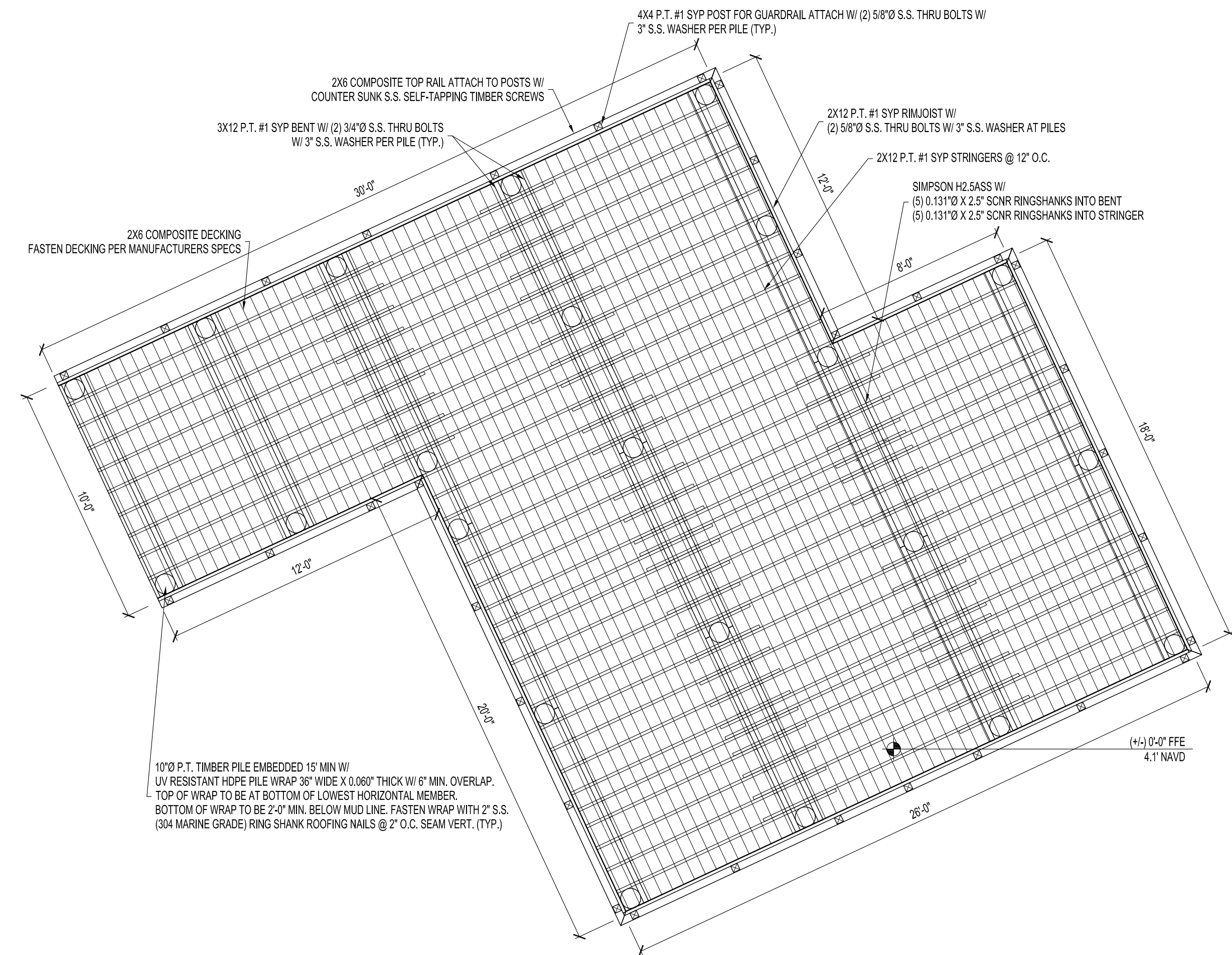
**BOARDWALK #1  
SECTIONS &  
ELEVATIONS**

SHEET NUMBER  
**S101.0**

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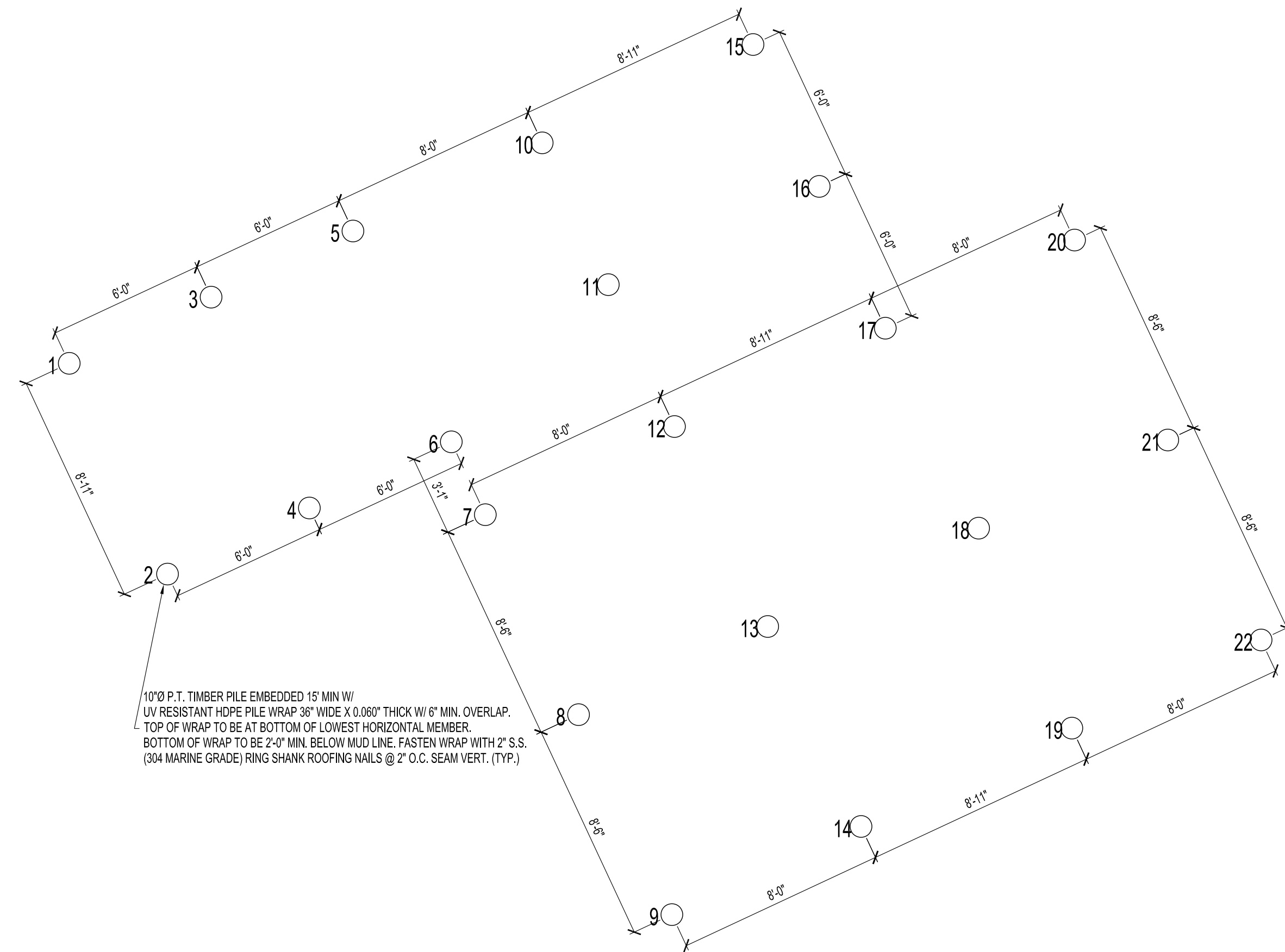
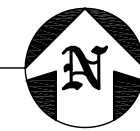


**GALT PRESERVE BOARDWALK REPAIRS FOR LEE COUNTY, FLORIDA**



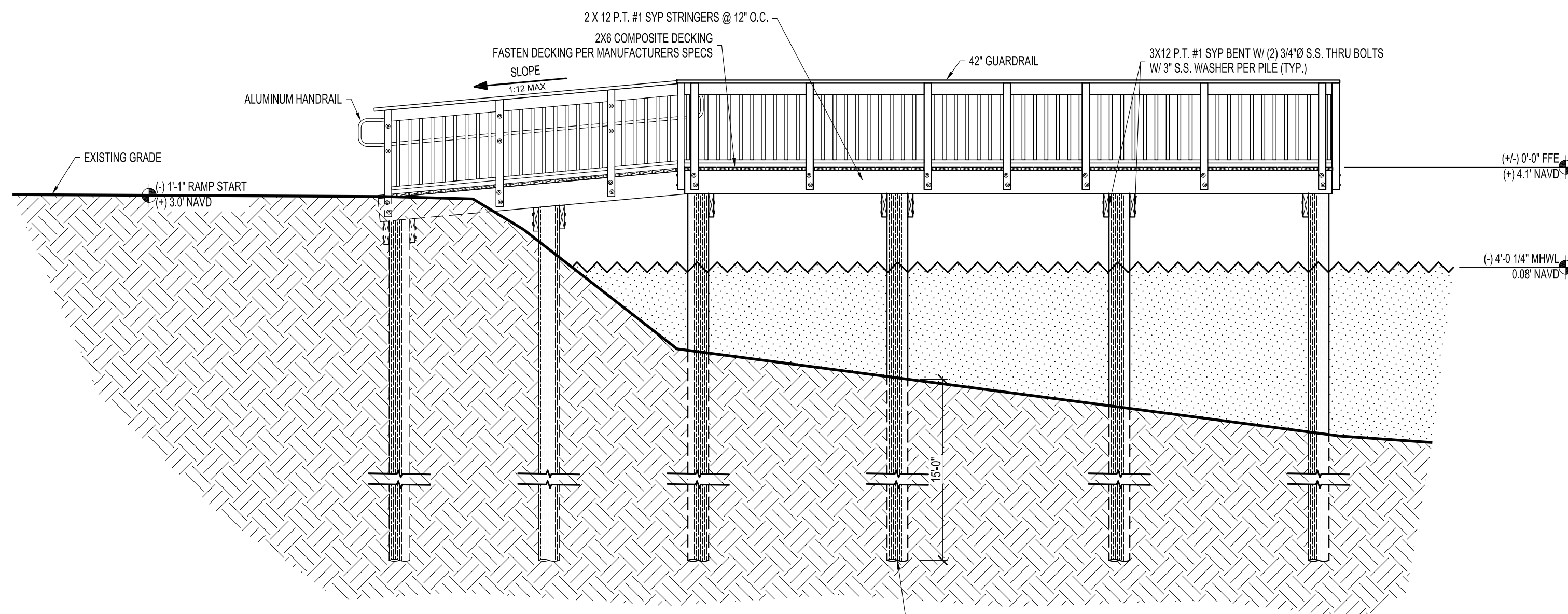
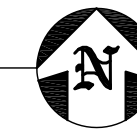
**OBSERVATION PLATFORM FRAMING PLAN**

1/4" = 1'-0"



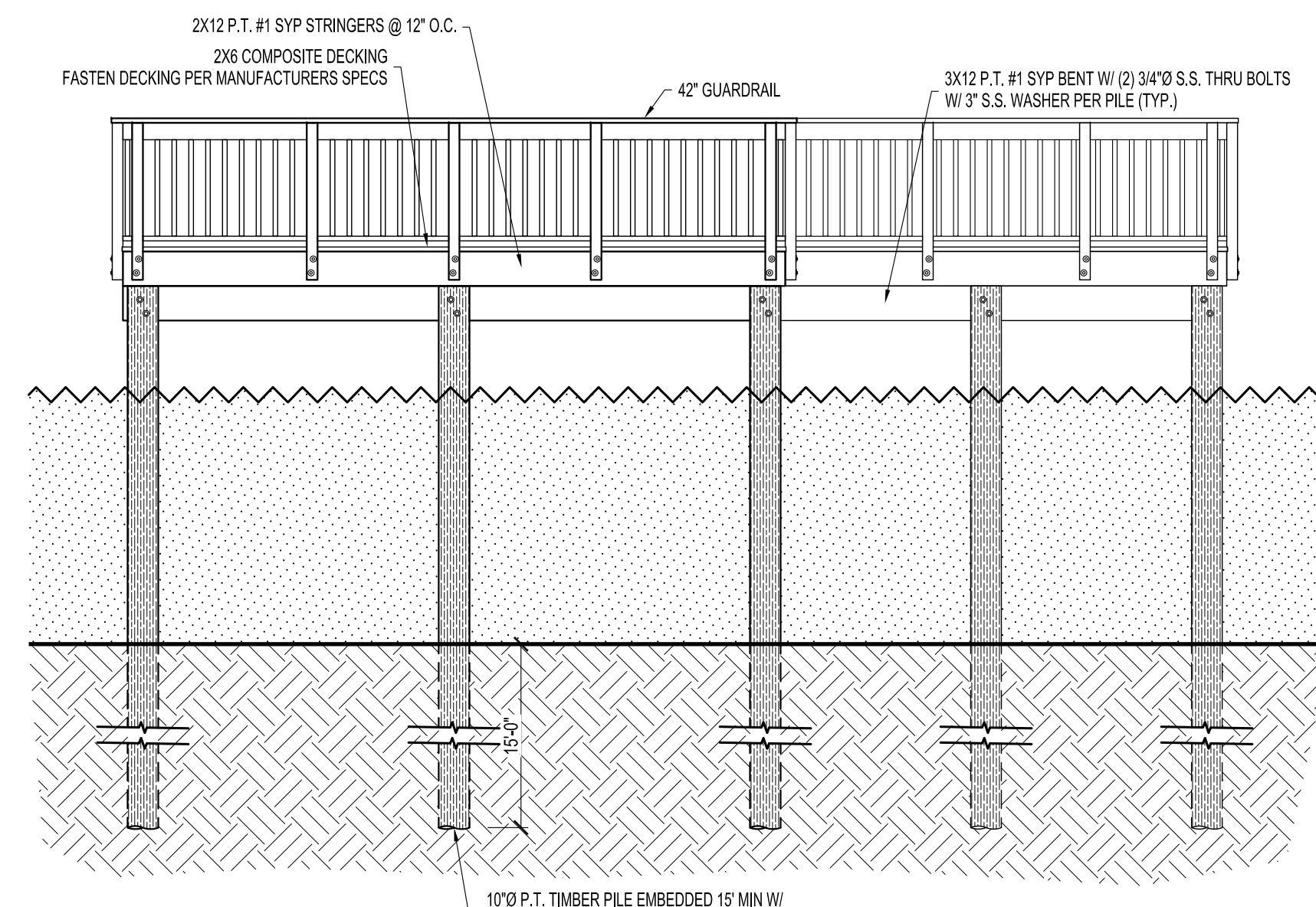
**OBSERVATION PLATFORM FRAMING PLAN**

1/4" = 1'-0"



**OBSERVATION PLATFORM SOUTH ELEVATION**

1/4" = 1'-0"



**OBSERVATION PLATFORM WEST ELEVATION**

1/4" = 1'-0"

SQUARE FOOTAGE TABULATION		
OVER LAND TO REMAIN:	0	S.F.
OVER WATER TO REMAIN:	0	S.F.
TOTAL TO REMAIN:	0	S.F.
OVER LAND TO REPLACE:	0	S.F.
OVER WATER TO REPLACE:	803	S.F.
TOTAL TO REPLACE:	0	S.F.
TOTAL AFTER REPLACEMENT:	830	S.F.

PILE COUNT		
TO REMAIN:	0	
TO REPLACE:	22	
TOTAL:	22	

**THE WEILER ENGINEERING CORPORATION**  
These plans are in Compliance with Florida Building Code 2023 for wind parameters indicated.

**WIND PARAMETERS**  
Method of Design: ASCE 7-22  
Building Risk Category: II  
Design Wind Speed: Ultimate  $V_{ult}=147$  MPH / Nominal  $V_{nom}=114$  MPH  
Wind Importance Factor: 1.0 / Wind Exposure: D  
Internal Pressure Coefficient: +0.00 (Open)  
Component & Cladding Wind Pressure: per Calcs

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Lateral Bearing Pressure: 1 TON PER PILE

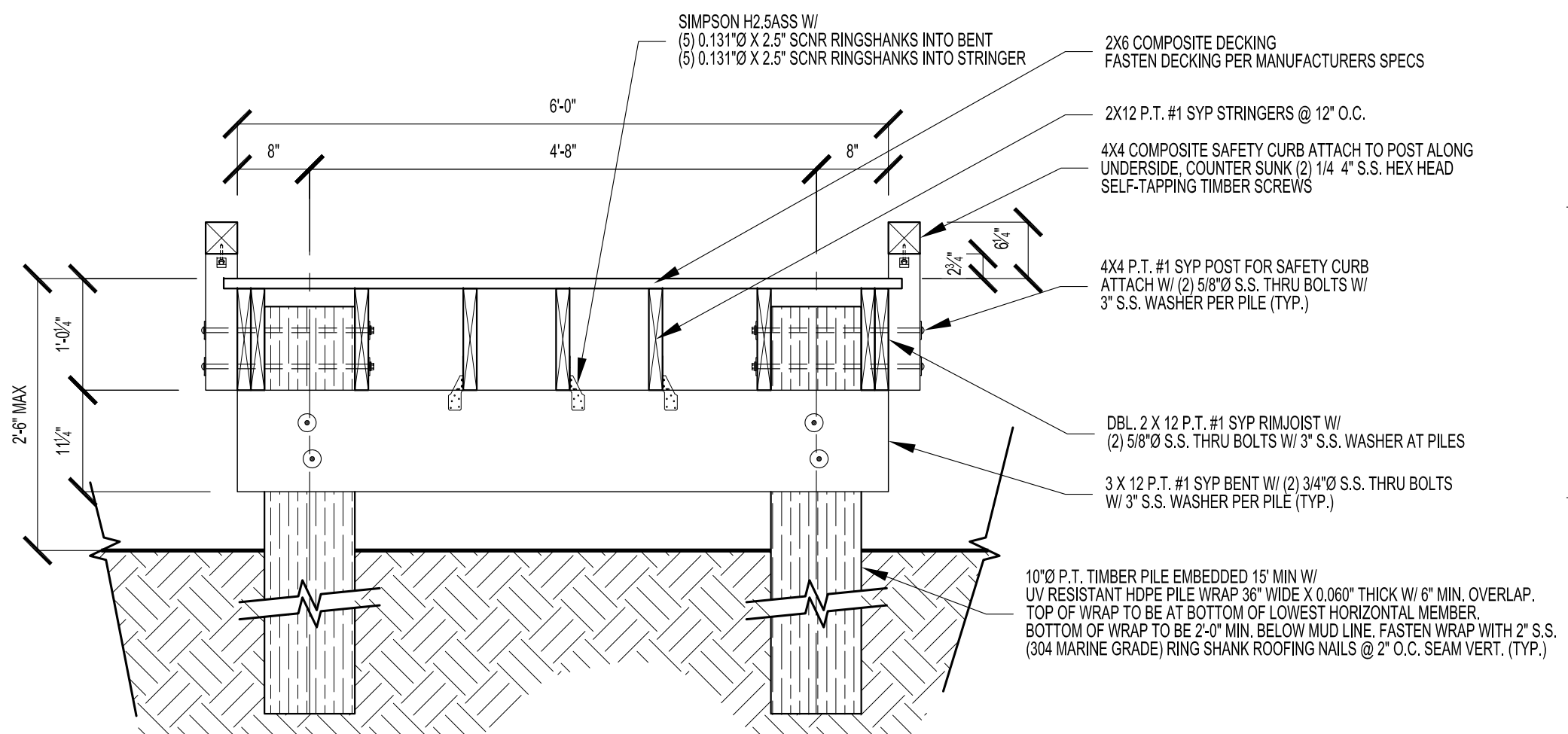
NO.	DESCRIPTION	DATE

DATE: 10/31/2024  
PROJECT NO. 23095.001  
FILE NO. DI# 1291095  
SCALE: 1/4" = 1'-0"

**OBSERVATION PLATFORM PLANS & ELEVATIONS**

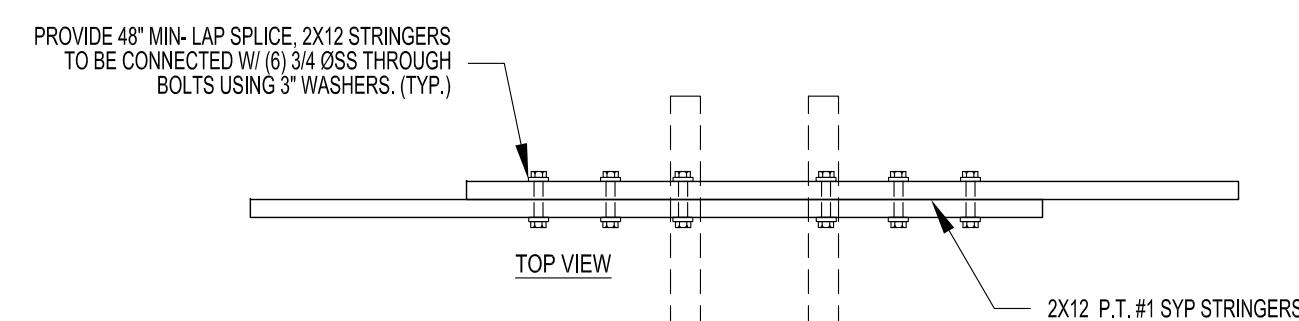
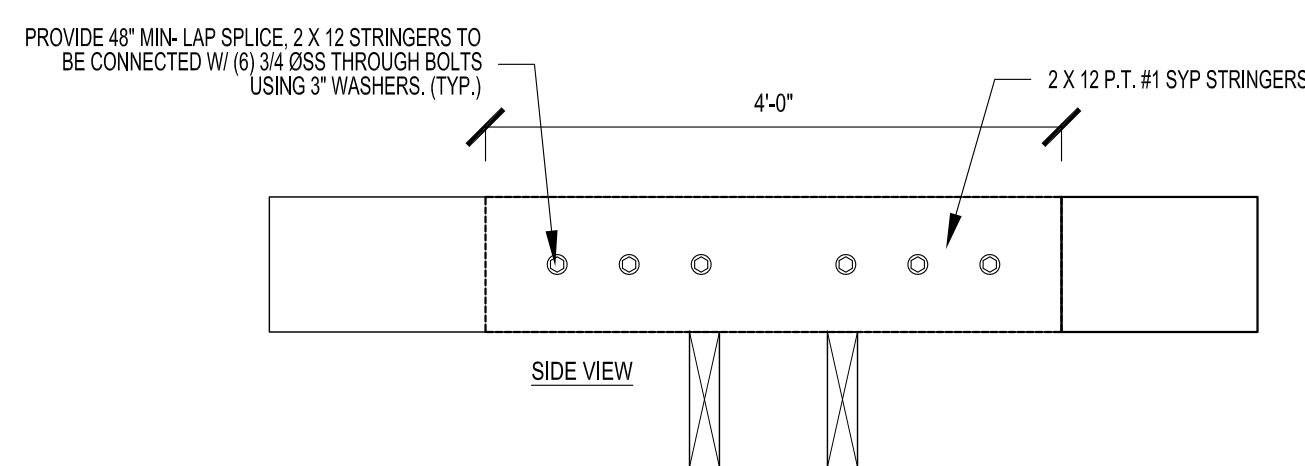
SHEET NUMBER

**S200.0**



### A SAFETY CURB BOARDWALK SECTION

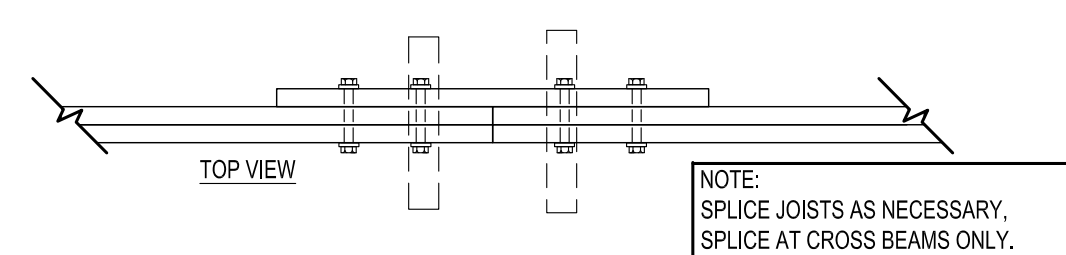
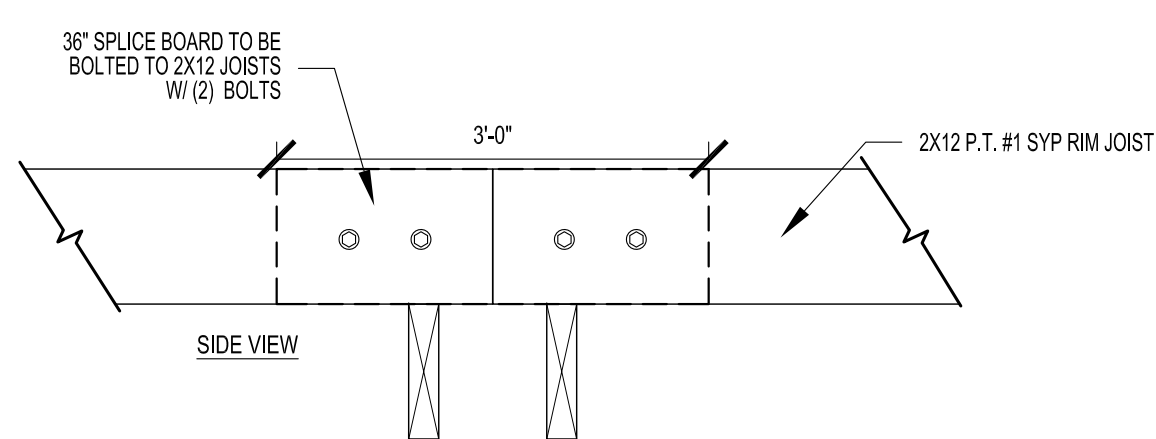
3/4" = 1'-0"



NOTE: SPLICE JOISTS AS NECESSARY, SPLICE AT CROSS BEAMS ONLY.

### C TYPICAL JOIST SPLICE DETAIL

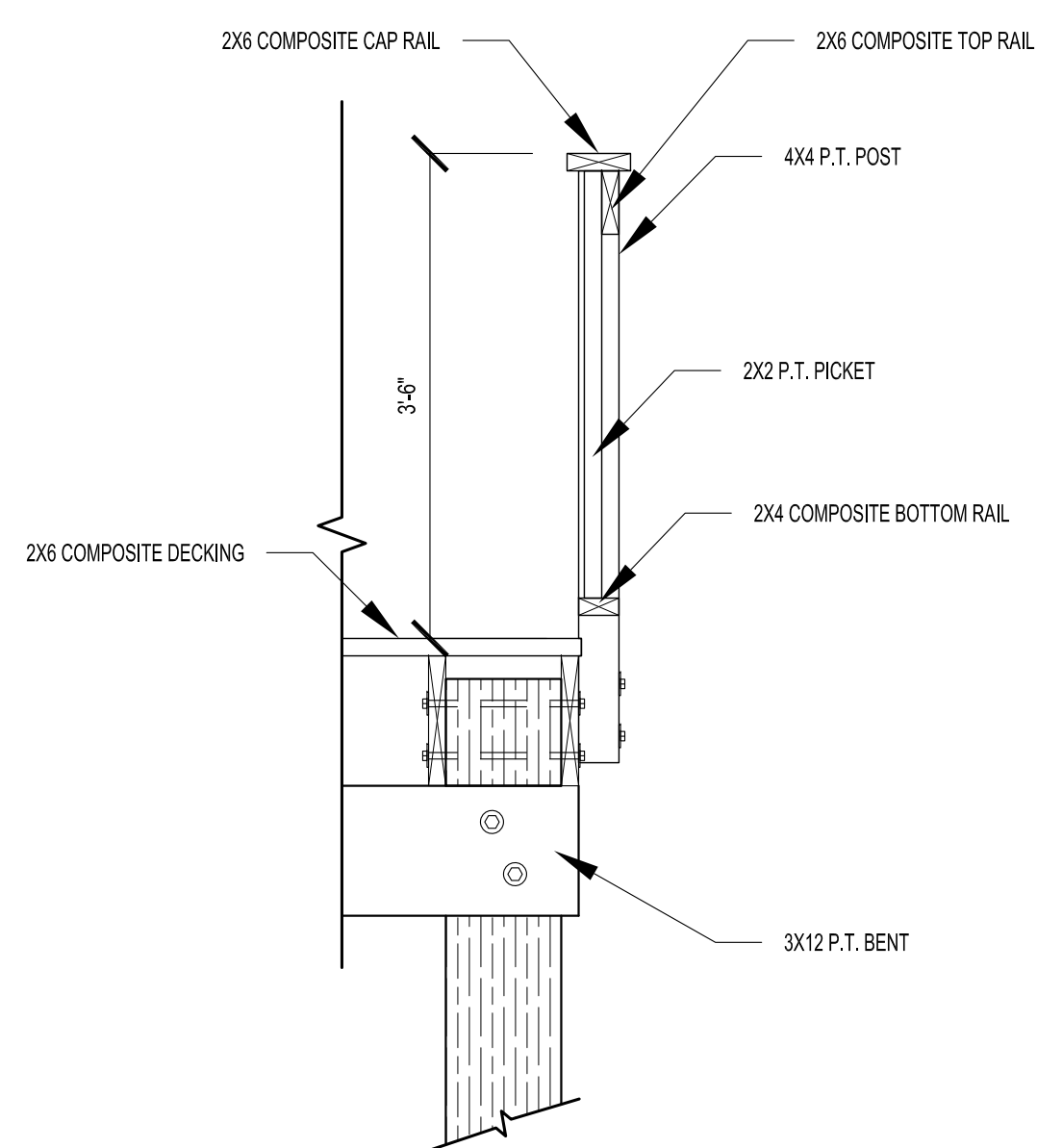
3/4" = 1'-0"



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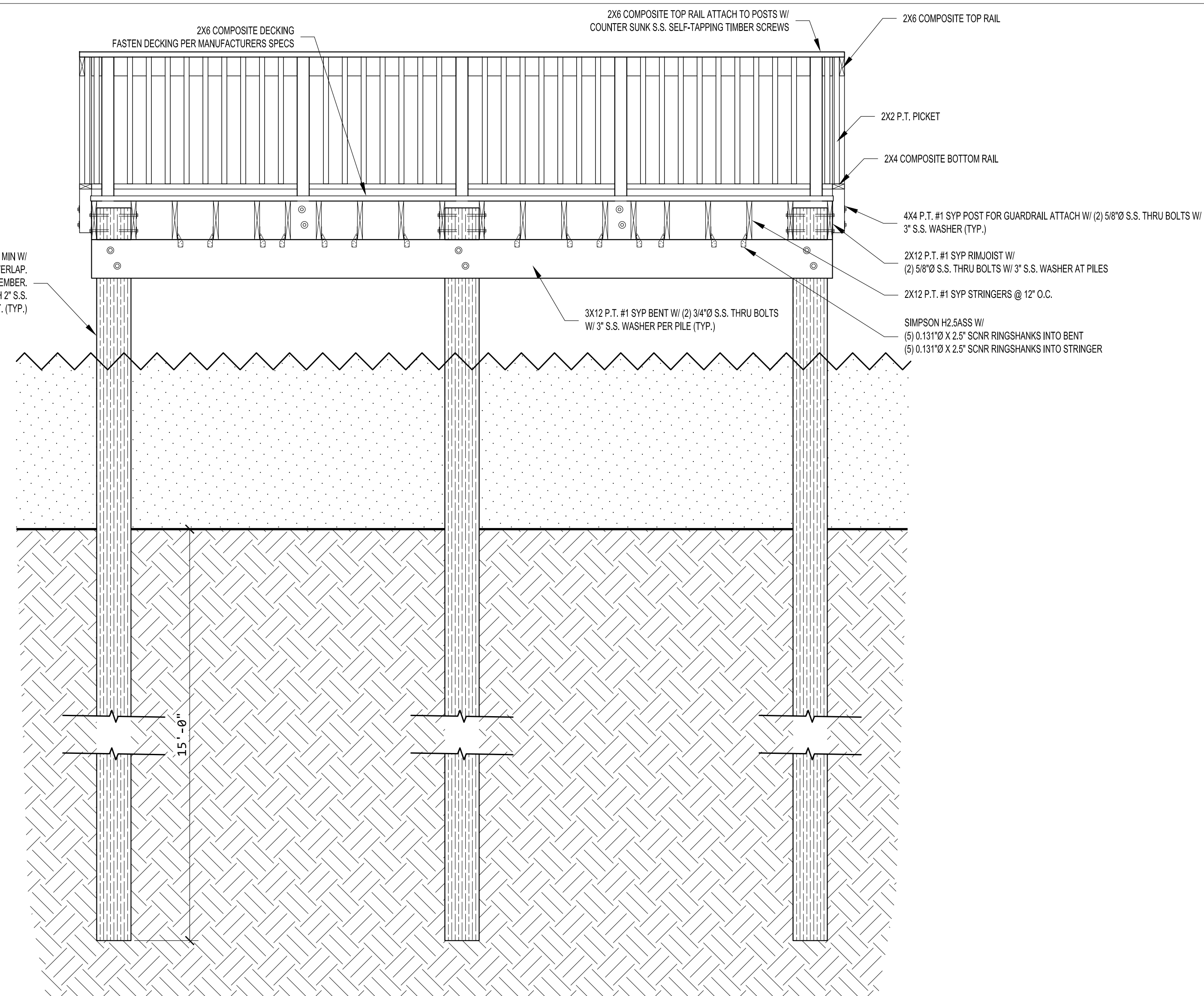
### D TYPICAL RIMJOIST SPLICE DETAIL

3/4" = 1'-0"



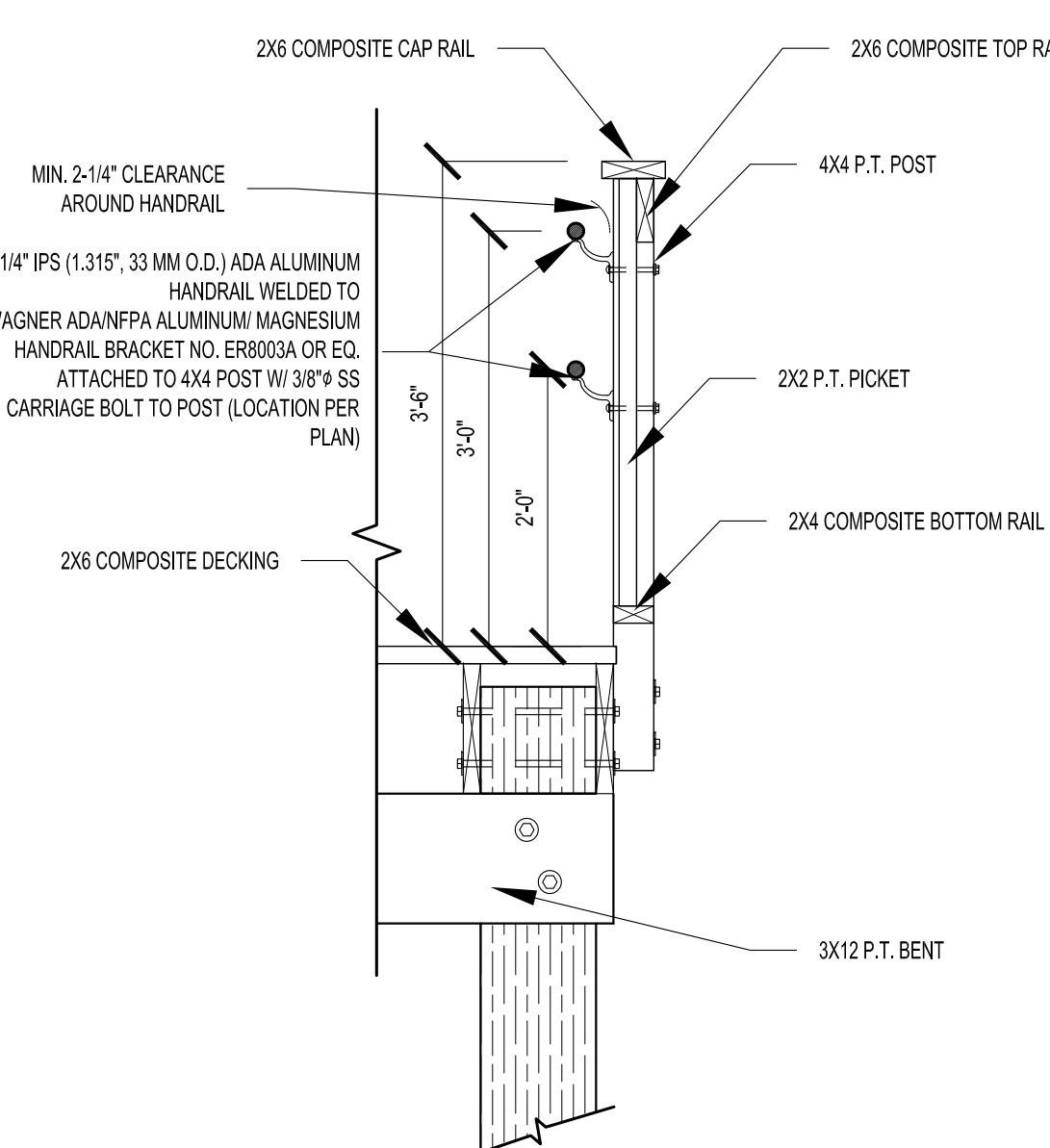
### E TYPICAL GUARDRAIL DETAIL

3/4" = 1'-0"



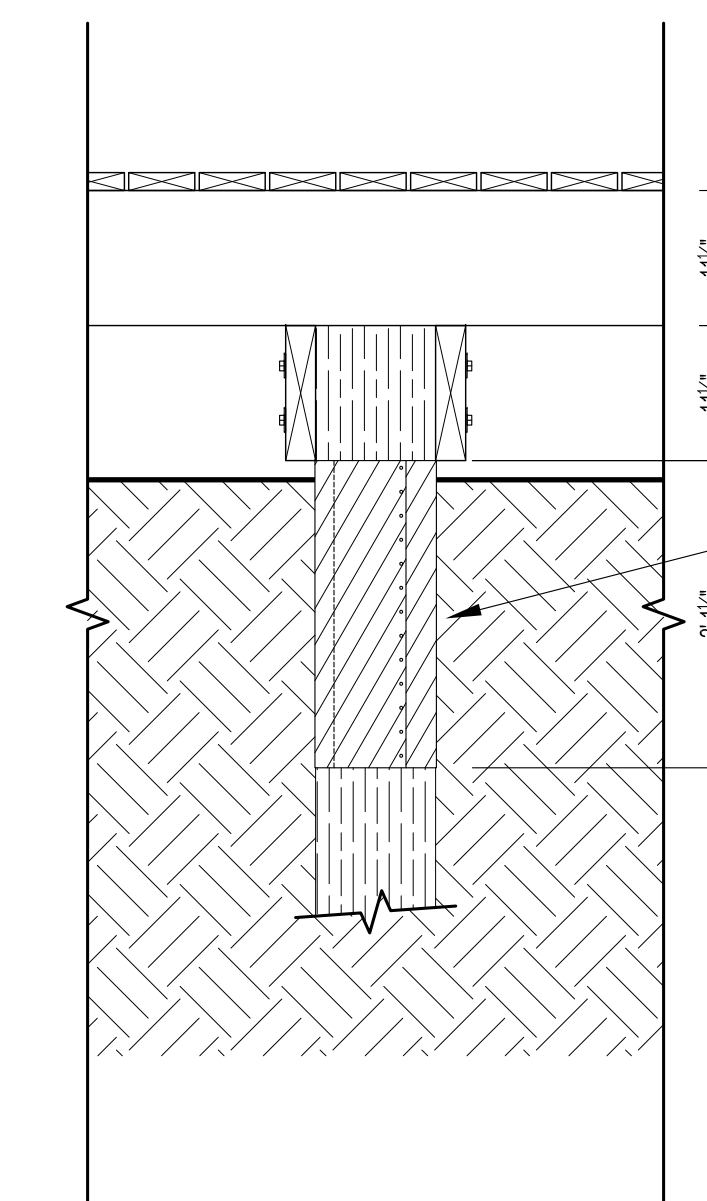
### B OBSERVATION PLATFORM SECTION

1/2" = 1'-0"



### F TYPICAL GUARDRAIL W/ HANDRAIL DETAIL

3/4" = 1'-0"



### G PILE WRAP DETAIL

3/4" = 1'-0"

#### THE WEILER ENGINEERING CORPORATION

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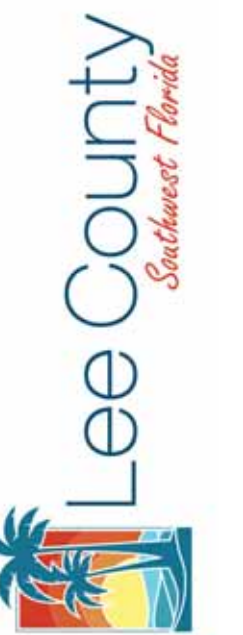
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NO.	REVISIONS	DESCRIPTION	DATE

DATE: 10/31/2024  
 PROJECT NO. 23095.001  
 FILE NO. DI# 1291095  
 SCALE: AS SHOWN



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NO.	DESCRIPTION	DATE

DATE: 10/31/2024  
PROJECT NO. 23095.001  
FILE NO. DI # 1291095  
SCALE: N/A

**PILING INDEXES**

SHEET NUMBER

**X100.0**

PILING ID	DESC	EST. EXISTING GRADE ELEV.	PILE TOP ELEV	DECK ELEV	GUARDRAIL OR CURB	PILE WRAP
1	Flat	2.61	2.32	2.61	SAFETY CURB	NO
2	Flat	2.61	2.32	2.61	SAFETY CURB	NO
3	Flat	2.30	3.09	3.38	SAFETY CURB	NO
4	Flat	2.76	3.09	3.38	SAFETY CURB	NO
5	Slope	2.20	3.81	4.10	SAFETY CURB	NO
6	Slope	2.20	3.81	4.10	SAFETY CURB	NO
7	Slope	1.80	3.81	4.10	SAFETY CURB	NO
8	Slope	1.90	3.81	4.10	SAFETY CURB	NO
9	Flat	1.80	3.81	4.10	SAFETY CURB	NO
10	Flat	1.90	3.81	4.10	SAFETY CURB	NO
11	Flat	1.90	3.81	4.10	SAFETY CURB	NO
12	Flat	2.00	3.81	4.10	SAFETY CURB	NO
13	Flat	2.00	3.81	4.10	SAFETY CURB	NO
14	Flat	2.00	3.81	4.10	SAFETY CURB	NO
15	Flat	1.90	3.81	4.10	SAFETY CURB	NO
16	Flat	1.90	3.81	4.10	SAFETY CURB	NO
17	Flat	2.00	3.81	4.10	SAFETY CURB	NO
18	Flat	2.00	3.81	4.10	SAFETY CURB	NO
19	Flat	1.90	3.81	4.10	SAFETY CURB	NO
20	Flat	1.90	3.81	4.10	SAFETY CURB	NO
21	Flat	1.80	3.81	4.10	SAFETY CURB	NO
22	Flat	1.80	3.81	4.10	SAFETY CURB	NO
23	Flat	1.50	3.81	4.10	SAFETY CURB	NO
24	Flat	1.90	3.81	4.10	SAFETY CURB	NO
25	Flat	1.60	3.81	4.10	SAFETY CURB	NO
26	Flat	1.60	3.81	4.10	SAFETY CURB	NO
27	Flat	1.60	3.81	4.10	SAFETY CURB	NO
28	Flat	1.60	3.81	4.10	SAFETY CURB	NO
29	Flat	1.60	3.81	4.10	SAFETY CURB	NO
30	Flat	1.60	3.81	4.10	SAFETY CURB	NO
31	Flat	1.60	3.81	4.10	SAFETY CURB	NO
32	Flat	1.60	3.81	4.10	SAFETY CURB	NO
33	Flat	1.80	3.81	4.10	SAFETY CURB	NO
34	Flat	1.70	3.81	4.10	SAFETY CURB	NO
35	Flat	1.90	3.81	4.10	SAFETY CURB	NO
36	Flat	1.90	3.81	4.10	SAFETY CURB	NO
37	Flat	2.10	3.81	4.10	SAFETY CURB	NO
38	Flat	2.10	3.81	4.10	SAFETY CURB	NO
39	Flat	1.90	3.81	4.10	SAFETY CURB	NO
40	Flat	1.90	3.81	4.10	SAFETY CURB	NO
41	Flat	1.70	3.29	3.58	SAFETY CURB	NO
42	Flat	1.70	3.29	3.58	SAFETY CURB	NO
43	Flat	2.80	2.51	2.80	SAFETY CURB	NO
44	Flat	2.80	2.51	2.80	SAFETY CURB	NO

**1 BOARDWALK # 1 PILING INDEX**  
N.T.S.

PILING ID	DESC	EST. EXISTING GRADE ELEV.	GIRDER BOTTOM ELEV.	PILE TOP ELE	DECK ELEV	GUARDRAIL OR CURB	PILE WRAP
1	Flat	3.35	1.00	2.71	3.00	GUARDRAIL	YES
2	Flat	3.35	1.00	2.71	3.00	GUARDRAIL	YES
3	Slope	1.00	1.50	3.21	3.50	GUARDRAIL	YES
4	Slope	1.00	1.50	3.21	3.50	GUARDRAIL	YES
5	Flat	-3.80	2.10	3.81	4.10	GUARDRAIL	YES
6	Flat	-3.80	2.10	3.81	4.10	GUARDRAIL	YES
7	Flat	-3.80	2.10	3.81	4.10	GUARDRAIL	YES
8	Flat	-3.80	2.10	3.81	4.10	GUARDRAIL	YES
9	Flat	-3.80	2.10	3.81	4.10	GUARDRAIL	YES
10	Flat	-4.50	2.10	3.81	4.10	GUARDRAIL	YES
11	Flat	-4.50	2.10	3.81	4.10	GUARDRAIL	YES
12	Flat	-4.50	2.10	3.81	4.10	GUARDRAIL	YES
13	Flat	-4.50	2.10	3.81	4.10	GUARDRAIL	YES
14	Flat	-4.50	2.10	3.81	4.10	GUARDRAIL	YES
15	Flat	-5.20	2.10	3.81	4.10	GUARDRAIL	YES
16	Flat	-5.20	2.10	3.81	4.10	GUARDRAIL	YES
17	Flat	-5.20	2.10	3.81	4.10	GUARDRAIL	YES
18	Flat	-5.20	2.10	3.81	4.10	GUARDRAIL	YES
19	Flat	-5.20	2.10	3.81	4.10	GUARDRAIL	YES
20	Flat	-7.30	2.10	3.81	4.10	GUARDRAIL	YES
21	Flat	-7.30	2.10	3.81	4.10	GUARDRAIL	YES
22	Flat	-7.30	2.10	3.81	4.10	GUARDRAIL	YES

**2 OBSERVATION PLATFORM PILING INDEX**  
N.T.S.

NOTE:  
ALL ELEVATION REFERENCE TO NAVD 1988.  
CONVERSION TO NGVD 1929 IS: NAVD 1988+1.16 = NGVD 1929

**THE WEILER ENGINEERING CORPORATION**  
These plans are in Compliance with Florida Building Code 2023 for wind parameters indicated.  
**WIND PARAMETERS**  
Method of Design: ASCE 7-22  
Building Risk Category: II  
Design Wind Speed: Ultimate  $V_{ult}$ =147 MPH / Nominal  $V_{sd}$  = 114 MPH  
Wind Importance Factor: 1.0 / Wind Exposure: D  
Internal Pressure Coefficient: ±0.00 (Open)  
Component & Cladding Wind Pressure: per Calcs  
**FLOOD PARAMETERS**  
FEMA FIRM Map Number: 12071C0390G  
Base Flood Elevation: AE-8  
100-year, 1-hour Design Rainfall: 4.5 in (FBC 2023 Fig. 1611.1)  
**GEOTECHNICAL PARAMETERS**  
Data Source: TIERRA PROJECT NO. 6511-23-232  
Vertical Bearing Capacity: 8"PILE:4 TONS, 10" PILE: 5 TONS  
Lateral Bearing Pressure: 1 TON PER PILE