CITY OF NAPLES PURCHASING DIVISION 735 8TH STREET SOUTH NAPLES, FL 34102 PH: 239-213-7100 FX: 239-213-7105

ADDENDUM NUMBER 10

NOTIFICATION DATE:	SOLICITATION TITLE:	SOLICITATION NUMBER:	BID OPENING DATE & TIME:
05/15/2024	Naples Pier Reconstruction - ITB	24-011	5/30/2024 2:00PM

THE FOLLOWING INFORMATION IS HEREBY INCORPORATED INTO, AND MADE AN OFFICIAL PART OF THE ABOVE REFERENCED BID.

The following clarifications are issued as an addendum identifying the following changes for the referenced solicitation.

- 1. Please find Attachment A: PLAN SET REPLACEMENT. The following 122 pages replace all pages of the original plan set.
- 2. Please find Attachment B: REVISED STATEMENT OF VALUES FORM. The Form replaced in its entirety all previously published Statement of Values Forms. <u>THE REVISED STATEMENT OF VALUES FORM (ATTACHMENT B) MUST BE USED BY</u> BIDDERS OR THE BID WILL BE REJECTED.

These changes were a result of requirements to raise the elevation of the concession building floor and include:

- 1. New concrete slab and floor assembly structure for Concessions, Concessions Stor, and Pier Stor.
- 2. New separation wall between Concessions Stor/Pier Stor and Men's Restoom.
- 3. Floor elevation change at Concessions and Concessions Storage.
- 4. New extended deck with ramp, stair, and platform with new required framing, guardrails, and handrails for Concessions Order/Waiting.
- 5. New flood vents at Pier Storage.
- 6. Reconfigured food service layout to accommodate new ramp/stair entry.
- 7. New columns between Women's Restroom and Showers.
- 8. Mop sink from Pier Storage moved to utility area of Women's Restroom; new water heater added.

- 9. New picnic tables to also include ADA seating.
- 10. Revised beam heights for Concessions/Concessions Storage/Pier Storage and their dormers.
- 11. Clarification to Basis of Design for Cedar Shake Shingle Roof System.
- 12. Revised ceiling type and lighting type in Pier Storage.
- 13. Kawneer Storefront at Concessions has been revised to IR501T. New ED5 door type. Revised W1 window assembly, W2 and W3 jamb conditions.
- 14. Basis of Design for Hollow Metal Doors is clarified to Daybar HD.
- 15. Flood panels have been eliminated.
- 16. Revision to bench count at Concessions and total count.
- 17. Changes to Select Structural structural drawings from new concrete slab and floor assembly at Concessions, Concessions Storage, and Pier Storage; new separation wall between Concessions Stor/Pier Stor and Men's Restroom; new columns at Women's Restroom/Showers; revised beam heights at Concessions, Concessions Storage, and Pier Storage and their dormers.
- 18. Changes to NPS Plumbing, Mechanical, and Electric from reconfigured food service layout, move of mop sink, additional water heater, larger grease interceptor with new location, coordination with Qualus drawings.
- 19. Changes to THA plans showing cantilevered deck area.
- 20. Changes to Osborn plans showing two cantilevered bents to support extended deck area.

TURRELL, HALL & ASSOCIATES, INC.

MARINE & ENVIRONMENTAL CONSULTING

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NOTES:

THESE DRAWINGS ARE INTENDED FOR CONSTRUCTION USE.

SITE ADDRESS:

SITE ADDRESS.		
<> 25 12TH AVE S	<> LATITUDE:	N 26.131543
NAPLES FL 34102	<> LONGITUDE:	W 81.807529

TODD T. TURRELL REGISTERED PROFESSIONAL ENGINEER LICENSE NO. 39659

DATE: May 15, 2024

ICENSE NO. 39659. THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY TODD T. TURRELL, P.E. USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

TODD T. TURRELL STATE OF FLORIDA, PROFESSIONAL ENGINEER,

MHK ARCHITECTURE

SENIOR ARCHITECT MAUREEN H. MINKER 2059 TAMIAMI TRAIL E TEL: (239)331-7092 EMAIL: FLORIDA@MHKARCHITECTURE.COM

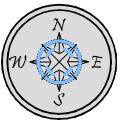
SELECT STRUCTURAL STRUCTURAL ENGINEERING

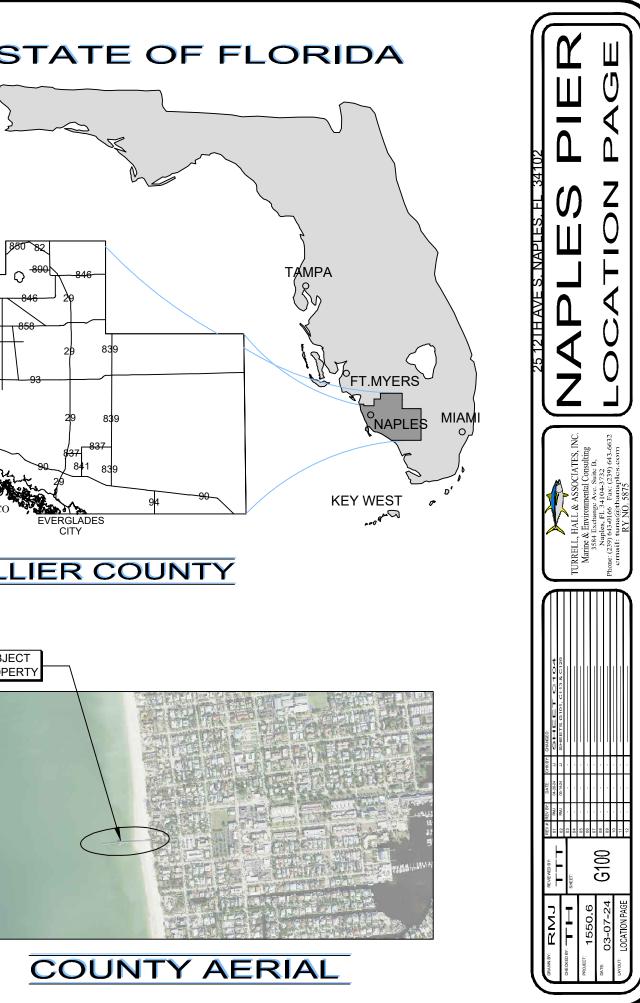
SHAWN ANDERSON, P.E., S.E. 12573 NEW BRITTANY BLVD. FORT MYERS, FL 33907 TEL: (239)210-5090 EMAIL: SHAWN@SELECTSTRUCTURAL.COM

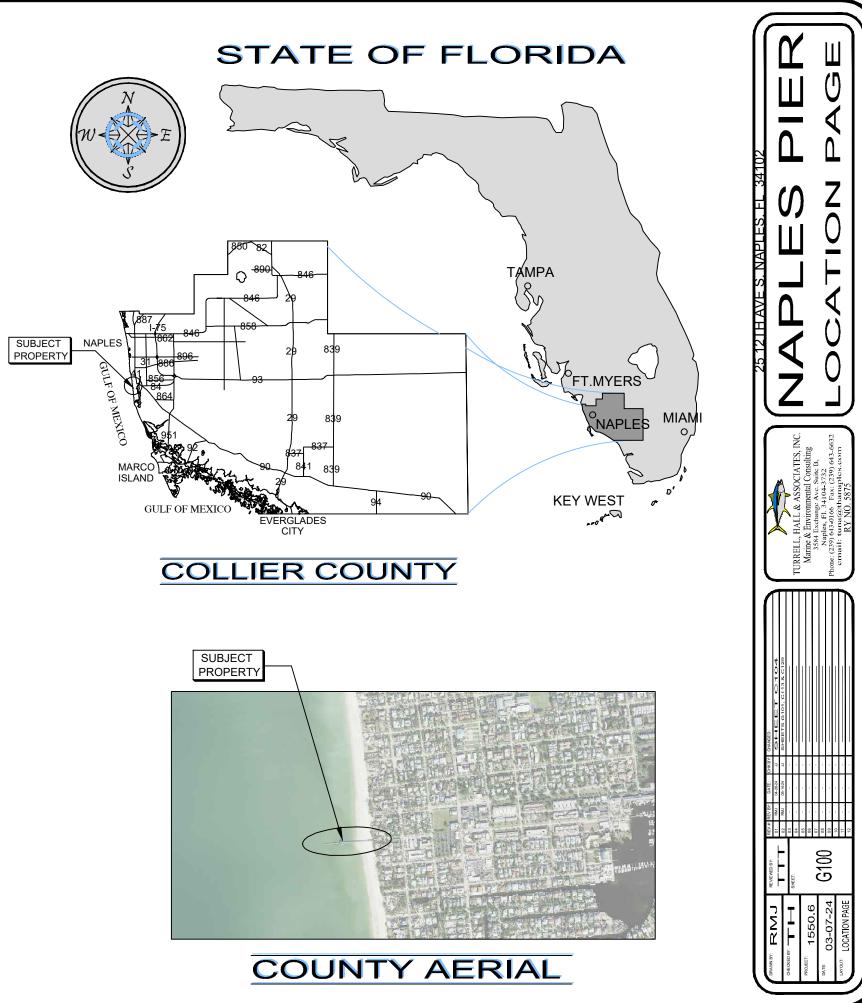
NPS CONSULTING

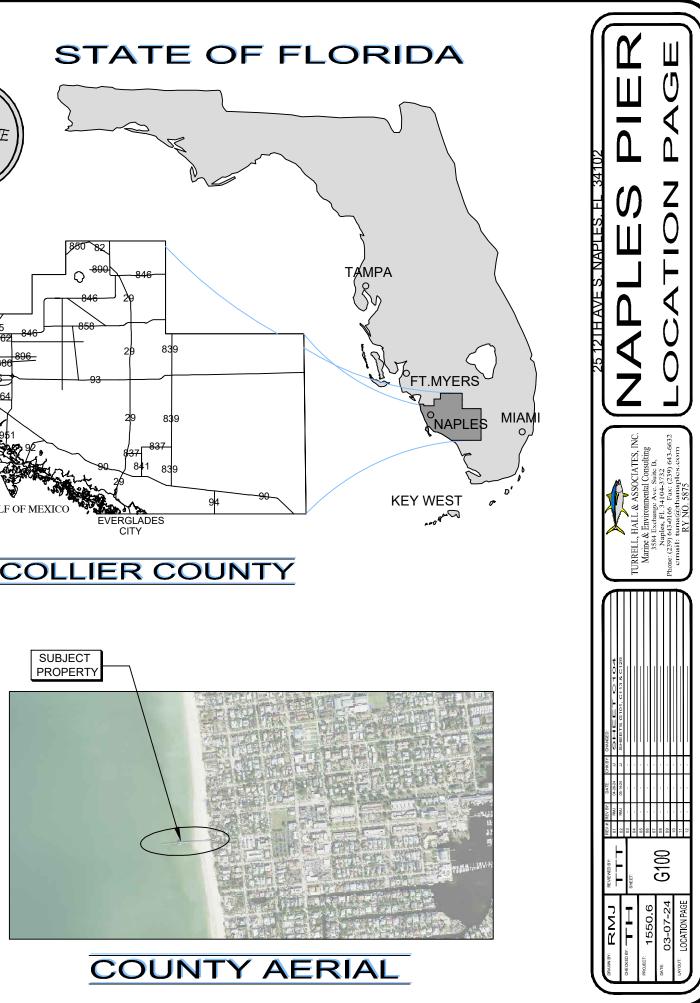
MECHANICAL, ELECTRICAL, PLUMBING **ENGINEERING & REPRESENTATION**

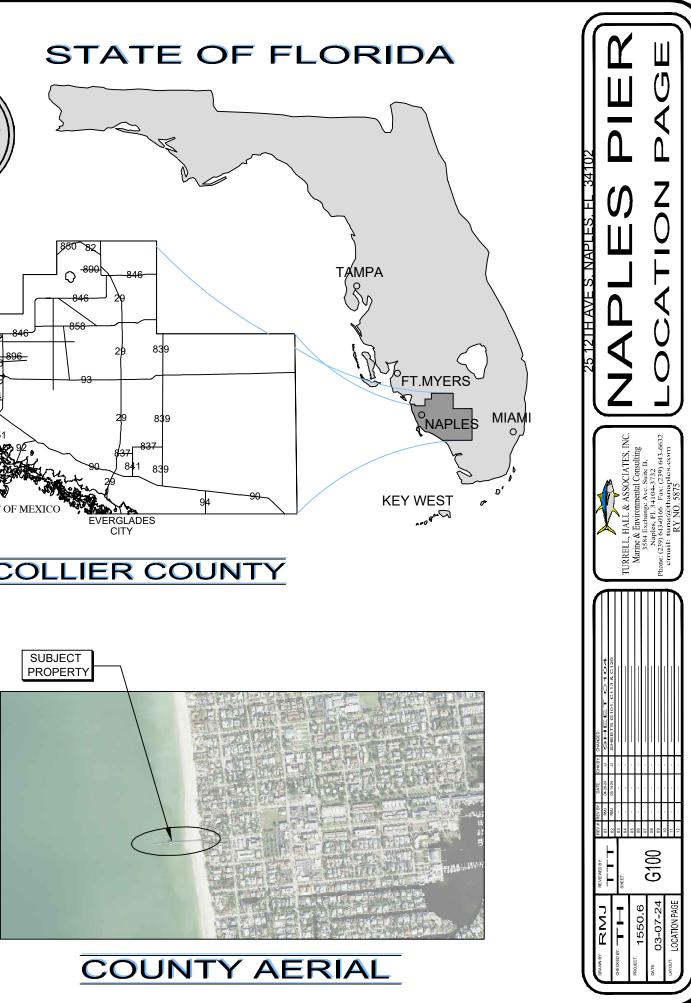
NICHOLAS P. STEWART 2534 SE SANTA BARBARA PL, SUITE 201 CAPE CORAL, FL 33904 TEL: (239)677-3004 EMAIL: NICK@NPSCONSULTINGLLC.COM

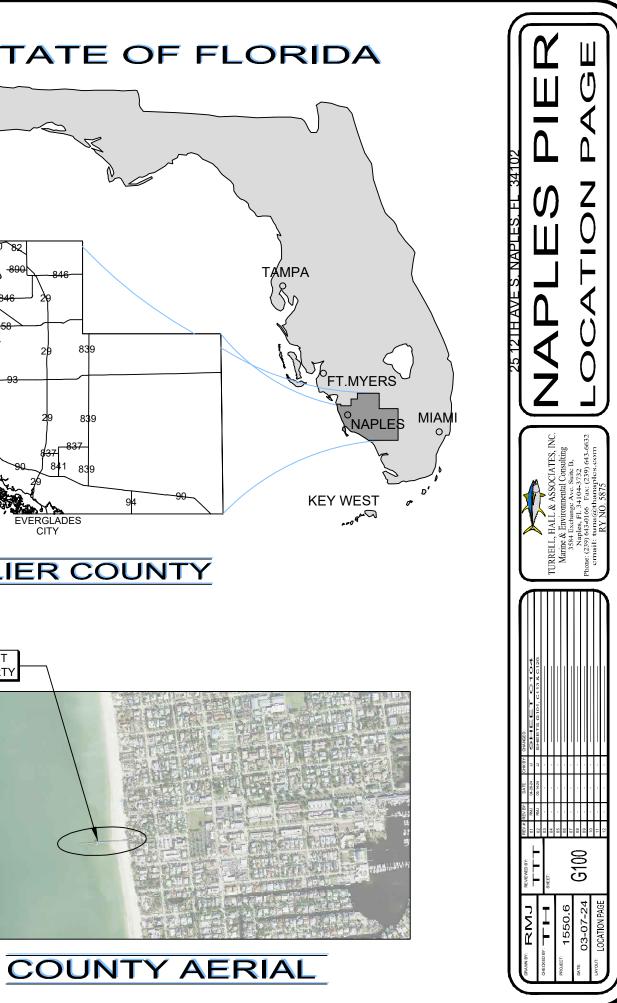












	NAPLES PIER - THA
Sheet Number	
G100	LOCATION PAGE
G101	TABLES OF CONTENTS
G102	SPECIFICATIONS 1
G103	SPECIFICATIONS 2
C100	EXISTING CONDITIONS
C101	EXISTING BATHYMETRY
C102	STAGING & ACCESS PLAN
C103	ADDITIONAL ACCESS AND STAGING
C104	PERMITTED TEMPORARY WORK
C105	DEMOLITION PLAN
C106	MULTIBEAM SURVEY
C107	ARTIFICIAL REEF SITES
C108	OVERALL PIER PLAN
C109	OVERALL PIER DIMENSIONS
C110	PIER PLAN (AA)
C111	PIER PLAN (BB)
C112	PIER PLAN (CC)
C113	PIER ACCESS FRAMING DETAIL
C114	MID PAVILION FRAMING DETAIL
C115	END PAVILION FRAMING DETAIL
C116	BUMPOUT FRAMING DETAIL
C117	OBSERVATION DECK FRAMING
C118	CAMERA HATCH DETAIL
C119	ROOF POST - OBSERVATION DECK POST CONNECTION DETAIL
C120	CROSS SECTION AA
C121	CROSS SECTION BB
C122	CROSS SECTION CC
C123	CROSS SECTION DD
C124	DOCK DETAILS 1
C125	DOCK DETAILS 2
C126	FISH CLEANING STATION DETAILS
C127	STAIR DETAILS 1
C128	STAIR DETAILS 2
C129	RAILING PLAN
C130	RAILING DETAILS 1
C131	RAILING DETAILS 2
U100	FIRE PLAN
U101	FIRE DETAILS
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NAPLES PIER - OSBORN ENGINEERING	
Sheet Number	Sheet Title
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S.002	SPECIAL INSPECTIONS
S.101	OVERALL PLAN VIEW
S.101A	ENLARGED PLANS
S.101B	ENLARGED PLANS
S.301	TYPICAL DETAILS
S.302	PRESTRESSED CONCRETE PILE TYPICAL DETAILS
S.401	STRUCTURAL SECTIONS
S.402	STRUCTURAL SECTIONS

NAPLES PIER - QUALUS	
Sheet Number	Sheet Title
E0100	COVER SHEET
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E0600	SINGLE LINE DIAGRAM W/LOAD CALCULATIONS
E0601	PLAN VIEW LAYOUT PG. 1
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Sheet Number	Sheet Title
G.000	COVER SHEET
G.100	PROJECT INFORMATION
G.200	BUILDING SYSTEMS & PARTITION TYPES
LS.100	ADA COMPLIANCE
LS.102	LIFE SAFETY PLAN
LS.103	LIFE SAFETY PLAN - ENLARGED PLANS
LS.104	ADA RAILING PLAN
A.000	OVERALL SITE PLAN/ELEVATIONS
A.001	SITE PLAN (CONCESSIONS / OPEN AIR DINING)
A.002	END-PAVILION FLOOR PLAN / ELEVATIONS
A.003	MID-PAVILION FLOOR PLAN / ELEVATIONS
A.004	PIER ACCESS DEMO PLAN
A.004A	PIER ACCESS DEMO PLAN - ELEVATIONS
A.004B	PIER ACCESS DEMO PLAN - ELEVATIONS
A.004C	PIER ACCESS DEMO PLAN - ELEVATIONS
A.005	PIER ACCESS FLOOR PLAN / ELEVATIONS
A.005A	PIER ACCESS ELEVATIONS
A.005B	3D VIEWS - PIER ACCESS
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A.006	RCP - PIER ACCESS / CONCESSIONS
A.007	RCP - END & MID PAVILIONS
A.008	MID-PAVILION ELEVATIONS
A.009	NOT USED
A.010	NOT USED
A.011	NOT USED
A.012	END PAVILION SECTIONS
A.013	END PAVILION SECTIONS
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A.015	PIER ACCESS SECTIONS
A.016	SEATING/DECKING SECTIONS
A.017	OVERALL FRAMING
A.018	FRAMING PLAN & DETAILS
A.019	3D VIEW - OVERALL PIER FRAMING
A.020	STAIRS DETAILS
A.021	3D VIEWS - PIER DECK ACCESS
A.022	WINDOW AND DOOR SCHEDULE
A.022A	DOOR DETAILS
A.022B	WINDOW DETAILS
A.023	ROOM FINISHES
A.024	ROOM FINISH DETAILS
A.025	DETAILS
A.026	DETAILS
A.027	BENCH PLAN
A.030	CONCESSIONS - KITCHEN FLOOR PLAN
A.036	CONCESSIONS DINING AREA DETAILS

I NAPLES P	TER - MIHK- MPS CONSULTING
Sheet Number	Sheet Title
P1	PLUMBING NOTES & SCHEDULES
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P5	PLUMBING SITE PLAN
M1	MECHANICAL SCHEDULES & SPECS
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E1	ELECTRICAL SPECIFICATIONS
E2	ELECTRICAL POWER FLOOR PLAN (CONCESSIONS/DINING)
E3	ELECTRICAL LIGHTING PLAN (CONCESSIONS/DINING)
E4	ELECTRICAL DIAGRAMS & SCHEDULE
E5	ELECTRICAL NOTES

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NAPLES	PIER - MHK- SELECT STRUCURAL
Sheet Number	Sheet Title
S.1.0	GENERAL NOTES
S.2.0	END PAVILION COLUMN LAYOUT
S.2.1	MID PAVILION COLUMN LAYOUT
S.2.2	PIER ACCESS COLUMN LAYOUT
S.4.0	END PAVILION ROOF FRAMING PLAN
S.4.1	MID PAVILION ROOF FRAMING PLAN
S.4.2	PIER ACCESS LOW ROOF FRAMING PLAN
S.4.3	PIER ACCESS HIGH ROOF FRAMING PLAN
S.5.0	DETAILS
S.5.1	DETAILS
S.5.2	DETAILS



TECHNICAL SPECIFICATIONS

1. Design Criteria

- a. Governing Code(s): 2023 Florida Building Code
- b. Deck live load: 100 PSF
- c. Railing wind load: 170 MPH
- 2. Order of precedence
 - a. In the event of discrepancies, order of precedence shall be as follows: Environmental permit conditions, Turrell, Hall & Associates plans, Osborn Engineering Plans, MHK Architecture Plans, Qualas Engineering plans.
- 3. Surveys: Contractor shall be responsible for their own stakeout survey to ensure proper placement of the structure. Since the project is within a Sovereign Submerged Land Lease the pier shall be placed within +/-2" of the designed locations which will be confirmed by the as-built survey supplied by the contractor at the completion of dock installation. Any deviations from this tolerance will need to be remedied or approved by the Owner and the FDEP prior to final payment.
 - a. All surveys shall reference NAVD '88 vertical datum
 - b. All surveys supplied to EOR shall be geo-referenced and shall reference Florida State Plane Coordinates East Zone
 - c. All bathymetric surveys shall follow the minimum specifications as outlined in US Army Corps of Engineers ER 1110-2-8164 Policies, Guidance, and Requirements for Hydrographic Surveying and Mapping Digital Products
 - d. Owner will provide current Sovereign Submerged Land Lease survey for reference.

4. Existing Conditions

- a. Prior to construction, contractor shall become familiar with site conditions and notify Engineer in writing if there are any discrepancies or any conditions that may affect completion of the project.
- b. Contractor is responsible for the protection of any existing facilities from damage due to construction activities. Contractor shall be responsible for repairs should any damages occur.
- c. Contractor shall be responsible for video and physical survey of adjacent properties and staging/ access areas prior to commencing work to establish a baseline for determining any damages or refute any claim. Must make report available to staff prior to commencing work.
- d. Contractor shall provide vibration monitoring to determine amplitude and frequency of construction related vibration
- 5. Staging and Site Access
 - a. Contractor is responsible for site security and safety within any staging areas they choose to utilize during the project.
 - b. Contractor is responsible for site restoration in staging areas, unless otherwise noted.
 - c. All upland work to be contained within the City of Naples' property lines.
 - d. Contractor to provide access corridor for pedestrian traffic to safely travel north/south on the beach through the work area. Shipping containers or similar approved method.
 - e. Turnaround area
 - i. Landscape island may be removed for additional staging. Contractor will be responsible for removal if needed. Owner will be responsible for replacement.
 - ii. Other trees in this area are to be protected and preserved.
 - iii. Access to all residential driveways must be maintained at all times.
 - f. Parking lot
 - i. The parking area on the southeast corner of 12th Ave S and Gulf Shore Blvd S may be used for additional staging. Access to the dumpster in this area must be maintained at all times.
 - g. 17th Ave S
 - i. The beach access and parking area located at 17th Ave S may be used for additional staging and equipment access.
 - ii. Equipment will not be permitted on the beach between this location and the project site during Sea Turtle Nesting Season.

6. Demolition

a. Scope

- i. The existing restroom buildings and foundations are to remain with the exception of any cut-offs indicated in the architectural plans. Any proposed alterations or temporary movement of existing buildings for access must be approved by the EOR.
- ii. Existing concrete piles and bents in between and underneath the restroom buildings are to remain.

- iv.All wood stringers, decking, railing and associated fasteners including that around and between the restroom buildings is to be removed.
- v. Contractor shall document lengths of existing piles as they are removed.
- b. Concrete Debris
- Concrete debris is to be prepped and disposed of at the approved artificial reef sites shown in the plans.
- ii. Concrete debris prep requirements:
 - 1. All Asian Green Mussels affixed to concrete must be killed with torch or other approved method before concrete is deployed at reef sites
 - 2. All exposed rebar must be cut flush with concrete surface
- iii.Minimum size for reef sites is 1 cubic foot. Smaller pieces shall be handled in accordance with the same requirements as for "non-concrete debris".
- iv. All pilings shall be completely removed or cut off minimum 10 feet below substrate.
- v. Contractor shall submit proposed method for verification of debris tonnage. Ie. draft measurements on disposal barge or other methods.
- c. Non-concrete debris
- i. All non-concrete debris and items indicated to be removed shall be removed from the Site/Owner's property and properly disposed of by the Contractor in a permitted sanitary landfill or C&D landfill, as is appropriate for the material being removed.
- d. Submerged debris
- i. Much of the existing pier has been toppled by Hurricane Ian and is scattered on the sea floor in the vicinity of the pier. Debris on the sea floor within the area shown in the drawings must be removed.
- ii. Any debris small enough to fit inside a 1 cubic foot box will be acceptable to remain
- e. The Contractor shall immediately remove and properly dispose of any debris that enters the water in or outside of the construction area during the demolition of the indicated structures.
- f. Site will be cleaned daily of debris.
- g. Proper electric and water disconnects in the work area are the responsibility of the Contractor.
- h. Contractor shall be responsible for all disposal fees and shall include said fees its bid.
- 7. Framing
 - a. Framing members including but not limited to all stringers, cap timbers, fascia boards, blocks, and posts shall be rough cut 0.60 CCA SYP No. 1, unless otherwise noted.
 - b. All stringer joints shall occur above concrete bents
 - c. Fasteners shall be 304/305 stainless steel, unless otherwise noted
 - d. Lumber dimensions are rough cut (RC), unless otherwise noted

8. Decking

- a. Decking shall be 5/4''x6'' IPE hardwood, placed with concave side down when applicable
- b. All exposed IPE wood cuts to be sealed.
- c. Decking screws and any other fasteners affixed to deck boards shall be 316 stainless steel, unless otherwise noted
- d. Decking shall be installed with full length deck boards, no joints, except where lengths exceed 12 feet.
- e. Any decking joints shall be centered over stringers and line up with adjacent joints
- f. All decking shall be rasped or sanded to finish edges.
- g. All gaps shall be straight and equal as measured under normal conditions (75 degrees Fahrenheit)9. Railings
 - anngs
 - a. All railing lumber shall be IPE hardwood in the sizes indicated on the drawings
 - b. All railing screws, carriage bolts, nuts, and washers shall be 316 stainless steel
 - c. All rail boards shall be rasped or sanded to finish edges
 - d. All rail posts shall be vertically oriented including over ramps and stairs
 - e. Guardrail
 - i. Guardrail shall utilize minimum 3/16" diameter grade 316 stainless steel cable, Atlantis Rail Systems or approved equivalent
 - ii. Spans between tensioners not to exceed 50 feet.

iii.All structures waterward of the restroom buildings are to be removed.

a. 1



- 10. Fasteners
 - a. All fasteners shall be minimum 304/305 grade stainless steel, including any temporary hardware
 - b. All decking and railing screws and other fasteners exposed on the surface of decking and railing components shall be 316 grade stainless steel, unless otherwise noted
 - c. All screw lines shall be in line with 1/16th inch tolerance from a string line
 - d. For any part of the work requiring cast-in-place all thread or bolts, contractor may submit alternative drill/epoxy method to EOR for approval
 - e. For any welded components, contractor shall submit proposed weld pattern to EOR for approval
 - f. Fastener holes through brackets shall be centered on bracket face, unless otherwise noted/dimensioned on drawings
 - g. No impact drivers shall be used on stainless fasteners.

11. Water

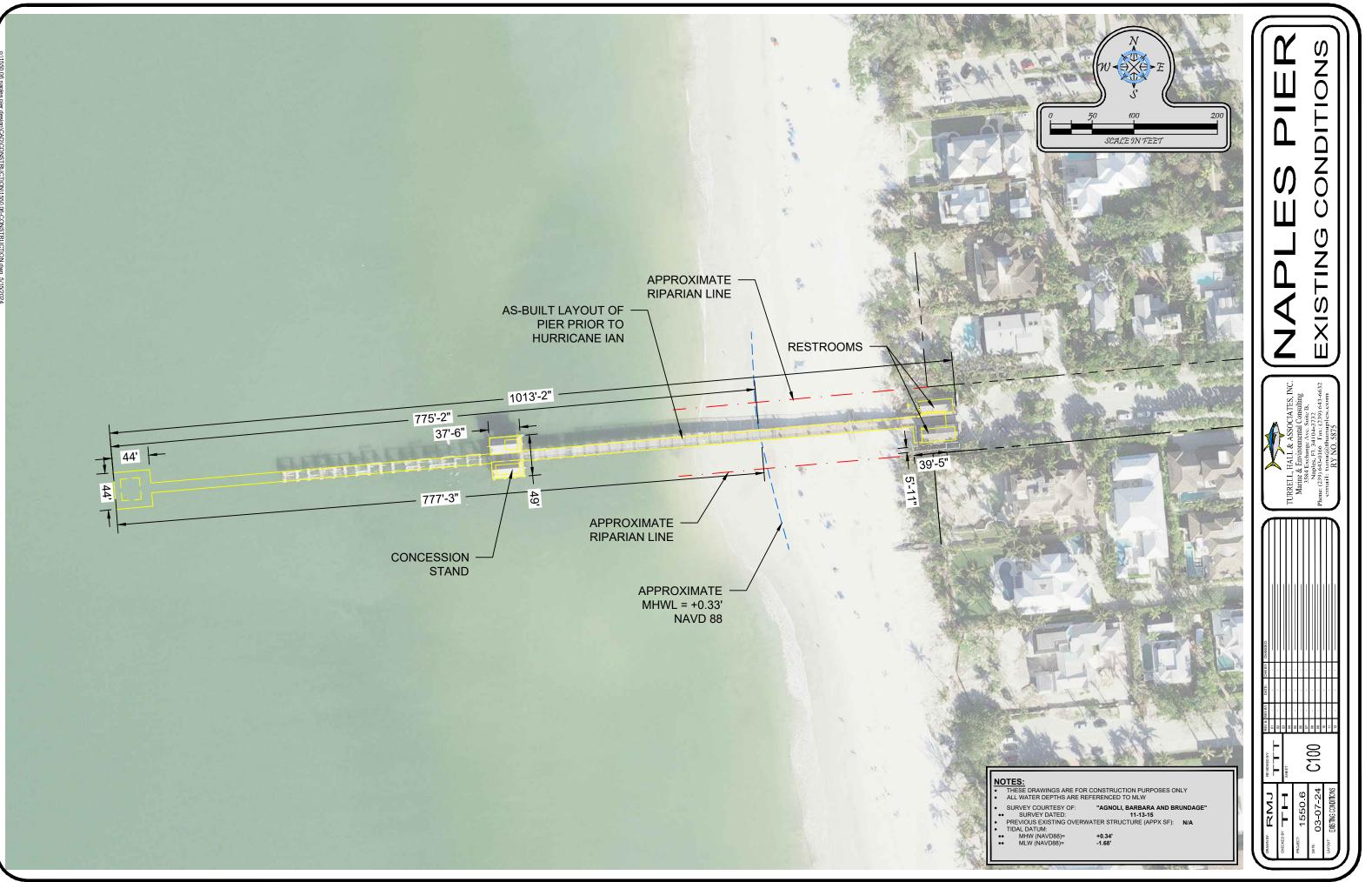
- a. Installation:
- i. The plumbing equipment and installation shall be per the Florida plumbing code latest edition with local amendments.
- ii. All plumbing shall be pressure tested prior to connecting to existing utilities. Test results shall be signed by the licensed plumber and provided to the EOR.
- iii.Water systems shall be tested after rough-in and before connecting fixtures. Piping shall be tested to at least 100 psig and pressure shall be maintained for at least 2 hrs.
- iv.All installation, support brackets, hangers, and fastenings to be #316 S/S
- v. Locations for all water spigots are located via the Turrell, Hall and Associates plans.
- vi.All water spigots for potable water to have the required back flow preventer.
- vii. All branch lines for spigot piping to be 3/4"
- b. Pipe Type: "HDPE" High Density Polyethylene or SCH80 PVC
- i. Water trunk lines shall be HDPE SDR11 pressure rated pipe with heat fused joints. The piping shall have UV stabilizers and conform with ASTM D3350 and ASTM F714.
- ii. Ball valves for service valves shall be full port type.
- iii.No bushings will be allowed, any reduction in pipe size shall be completed using reduction fittings.
- iv.During construction all pipe openings not being worked on shall be plugged or capped to prevent foreign debris entering the system.
- v. All pipe hangers, straps, nuts, bolts, angle supports, etc. shall be type 316 stainless steel.
- vi.Hanger straps shall be a minimum 1-1/4" wide 14 gage stainless steel.
- vii. Piping shall be supported 4ft O.C. maximum with interference fit straps to restrain expansion/contraction.
- c. Notes:
- i. All domestic water supplied plumbing piping shall be disinfected with chlorine before it is placed into operation. The liquid chlorine shall conform to federal specification BB-C-120. The chlorine shall contain at least fifty parts per million of available chlorine and shall remain in the system for not less than 16 hours.
- ii. All valves shall be opened and closed at least 4 times during disinfecting. After the disinfecting process is complete, the chlorinated water shall be flushed from the system with clean, fresh water until the residual chlorine content is less than two-tenths parts per million.

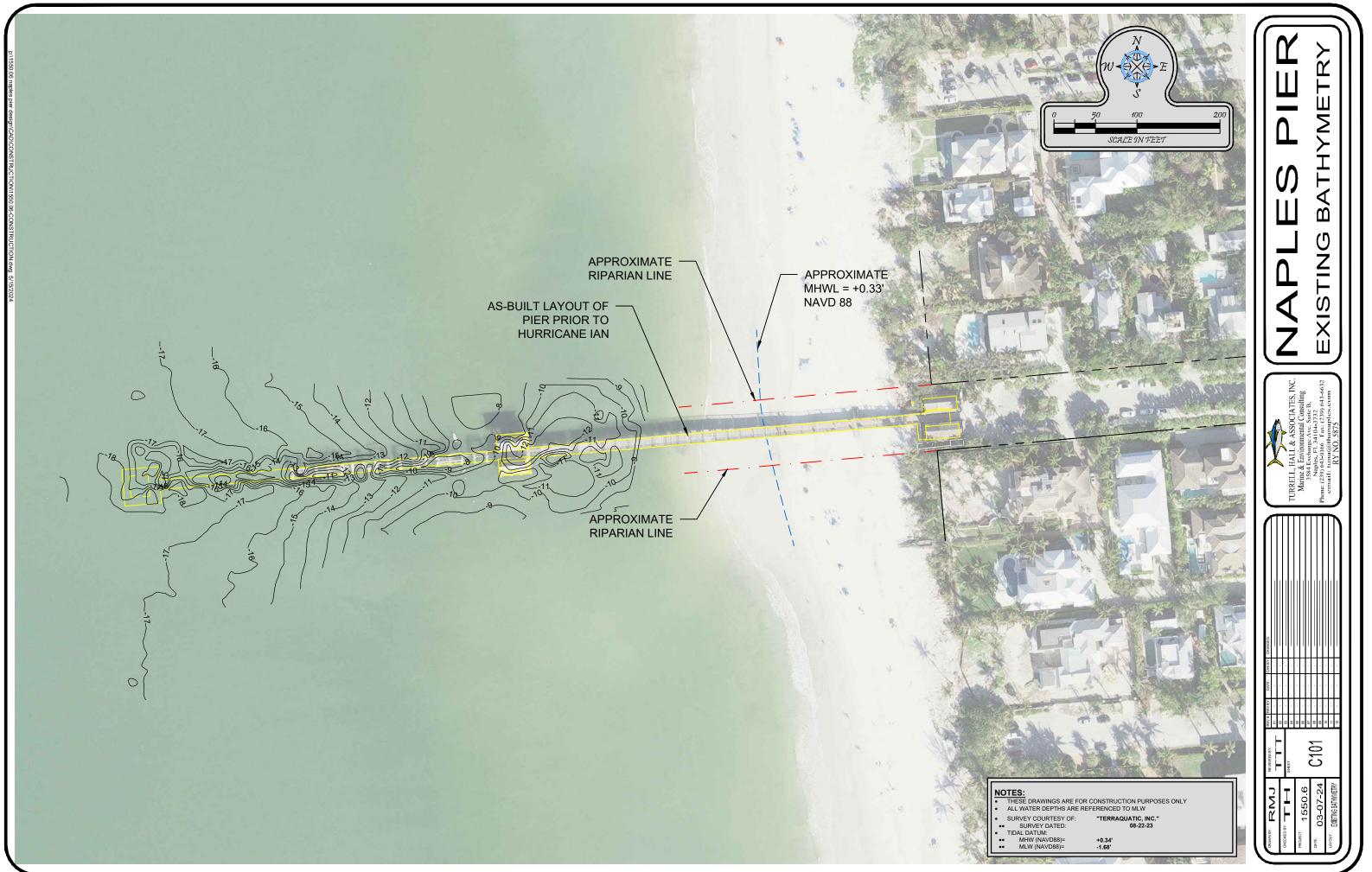
12. Fire

- a. Installation:
- i. Installation of al piping shall be per the latest edition accepted by the local AHJ of the Florida Building Code - Plumbing edition, NFPA 303, and NFPA 14
- b. Pipe Type: All piping shall be 316 stainless steel, and all fittings shall be clamped.
- i. All piping shall be tested to at least 200 psig and pressure shall be maintained for a minimum of 2 hrs.
- ii. All pipe hangers, straps, nuts, bolts, angle supports, etc. shall be stainless steel.
- iii.Piping shall be strapped to pier system utilizing 2"X4" IPE fastened to underside of stringers, not to exceed 4' on center.
- iv.All 90-degree bends shall be long radius.
- v. Contractor shall submit all materials to EOR and fire department prior to commencement for necessary approvals.
- vi.All underground piping to have a fire inspection, and be marked utilizing marking balls, wire and

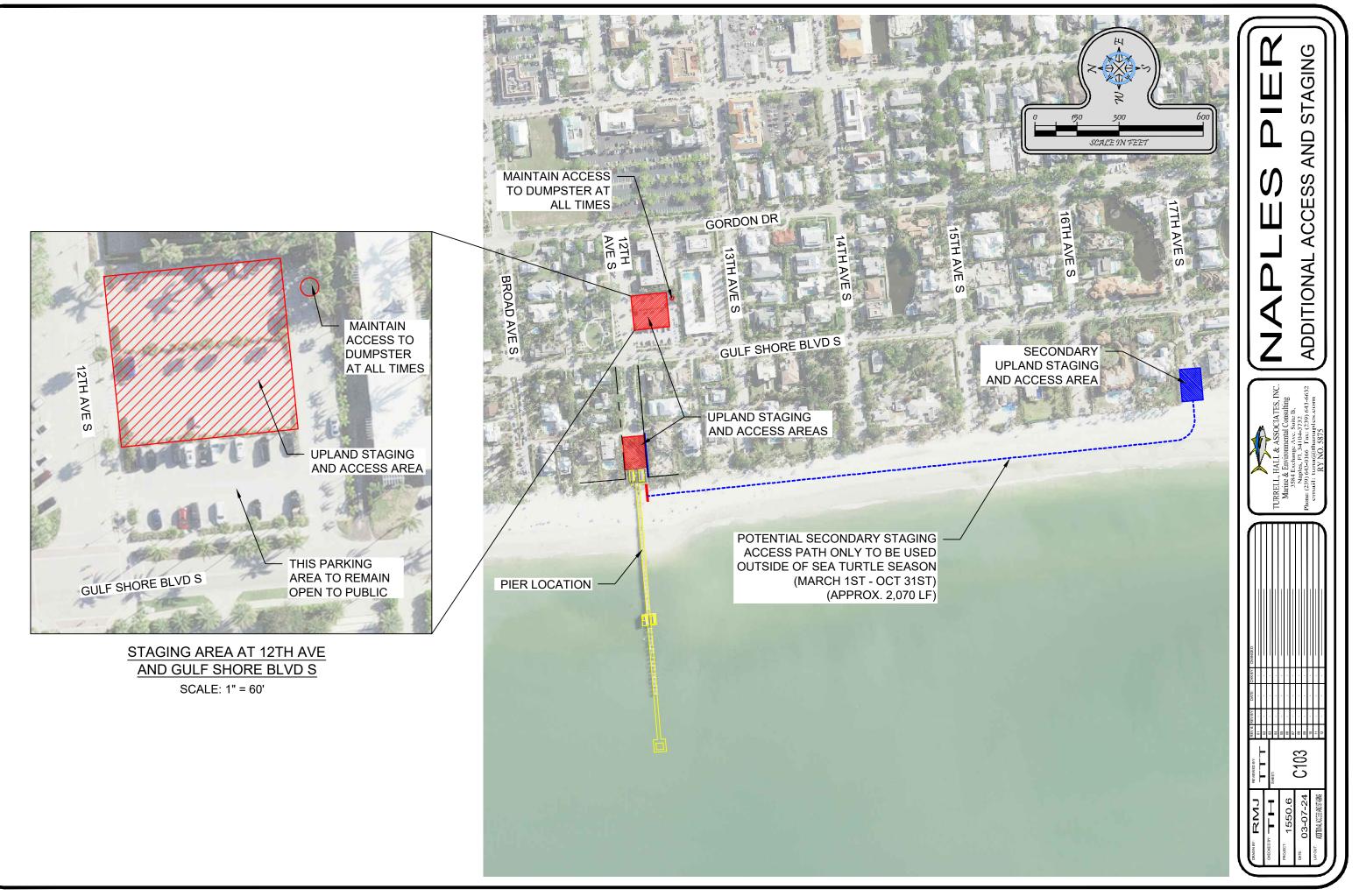
vii.All piping runs should be straight - attachment method shall take into account offsets for fittings. viii.Contractor shall submit proposed attachment methods for appeal.

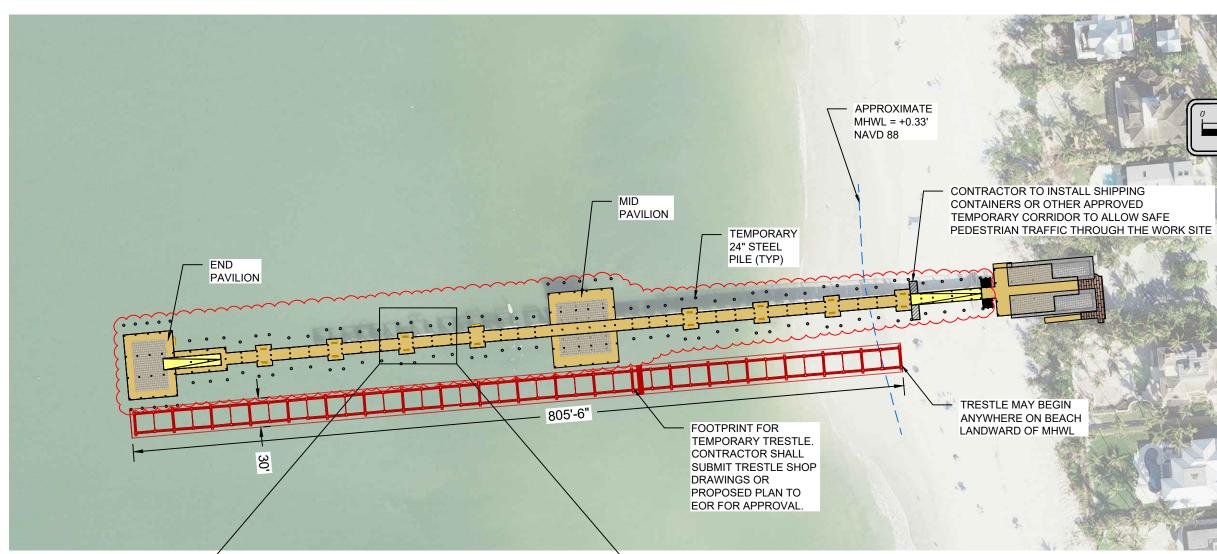


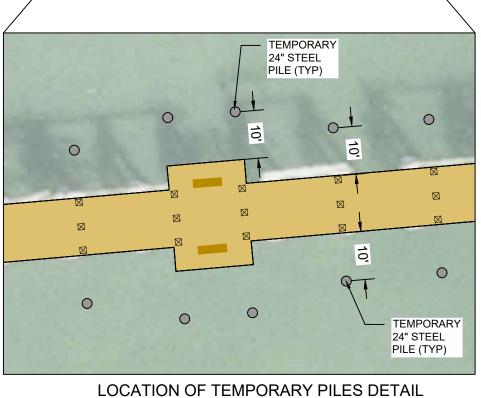


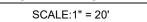


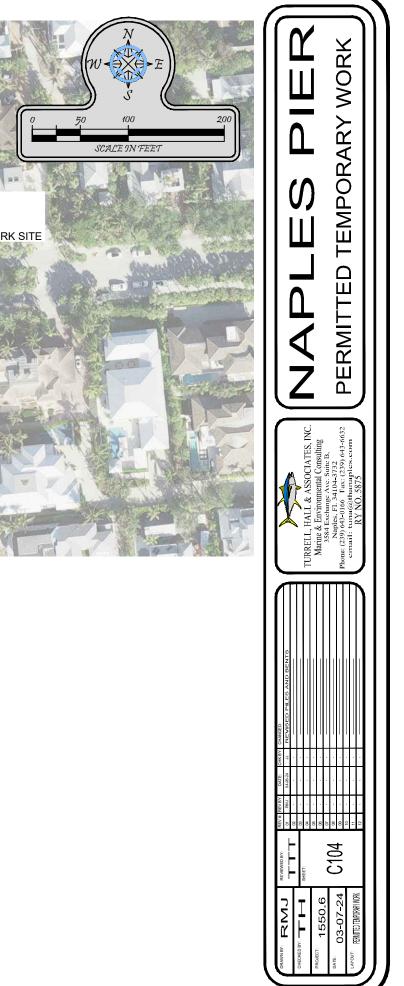


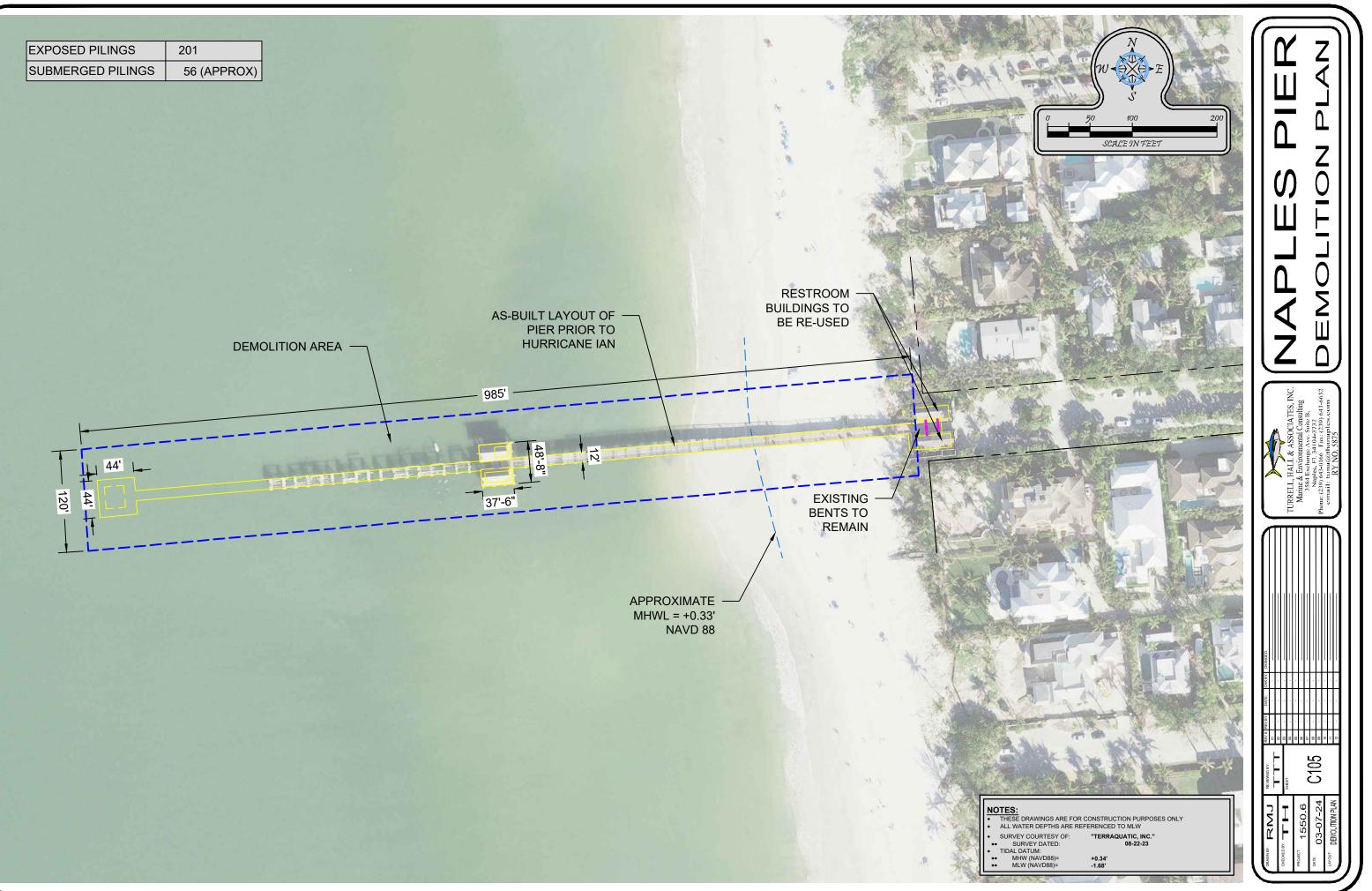


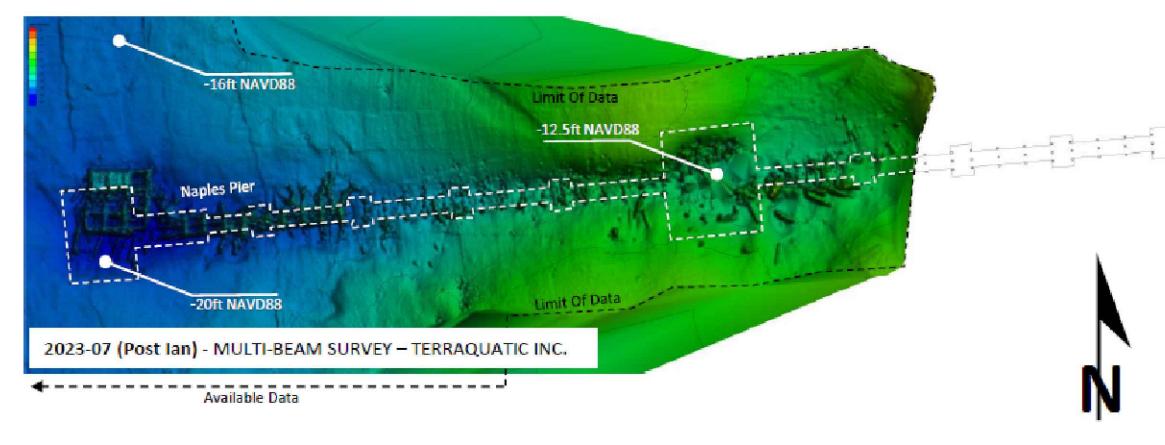


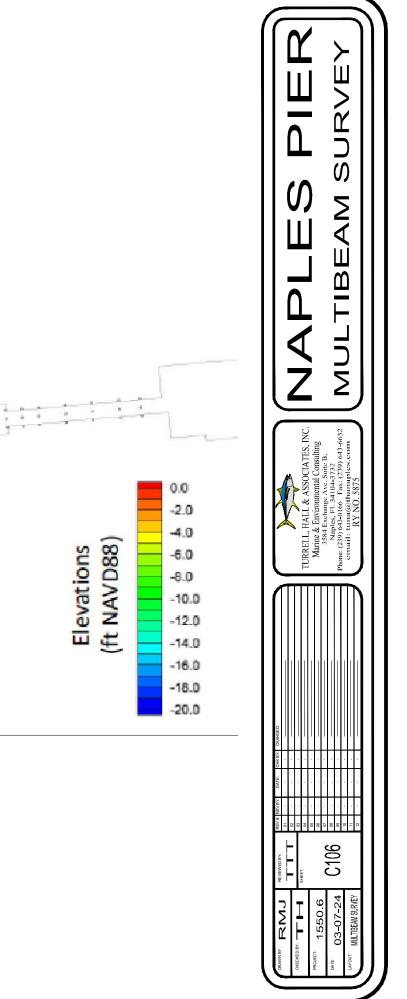


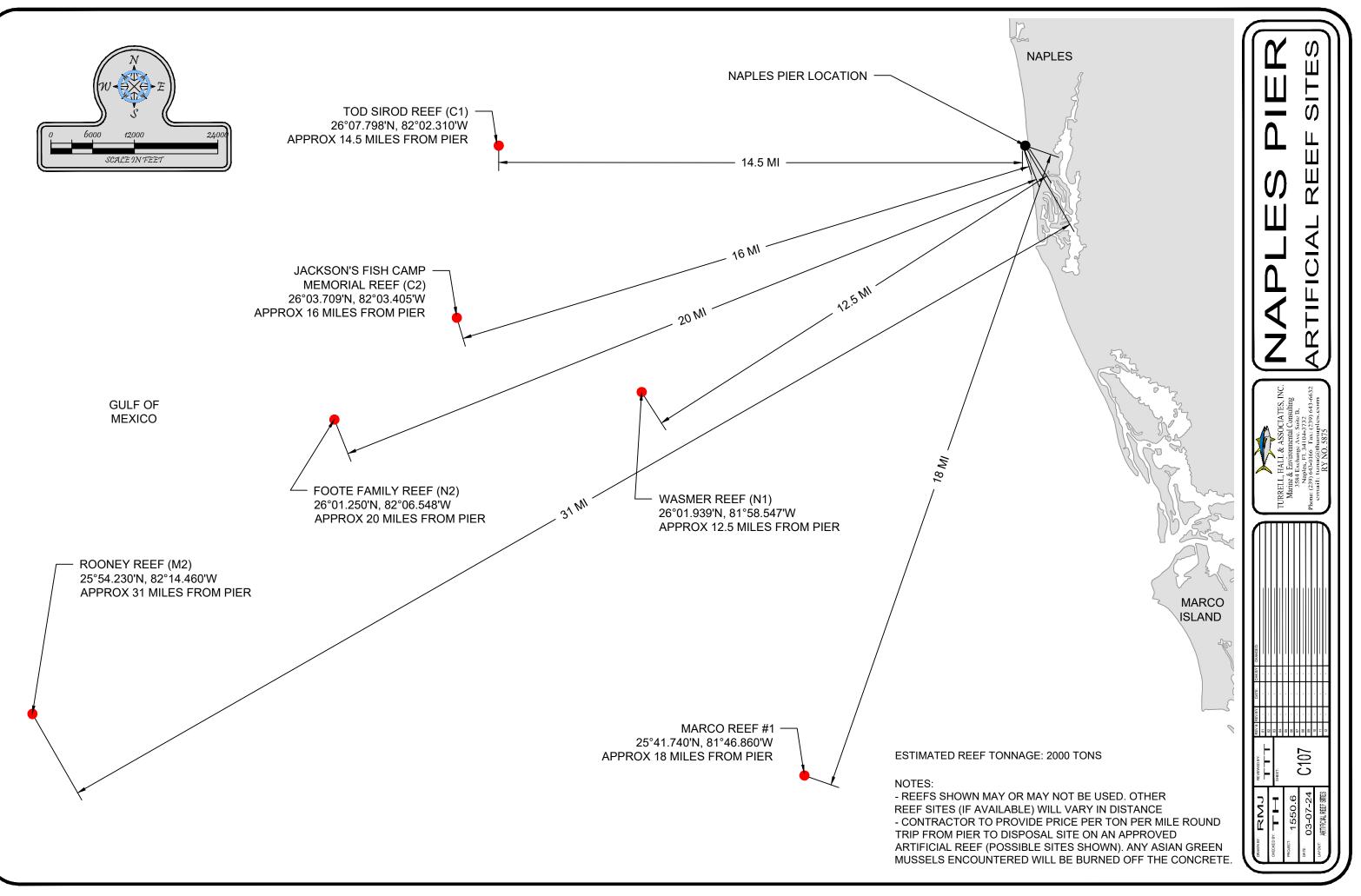


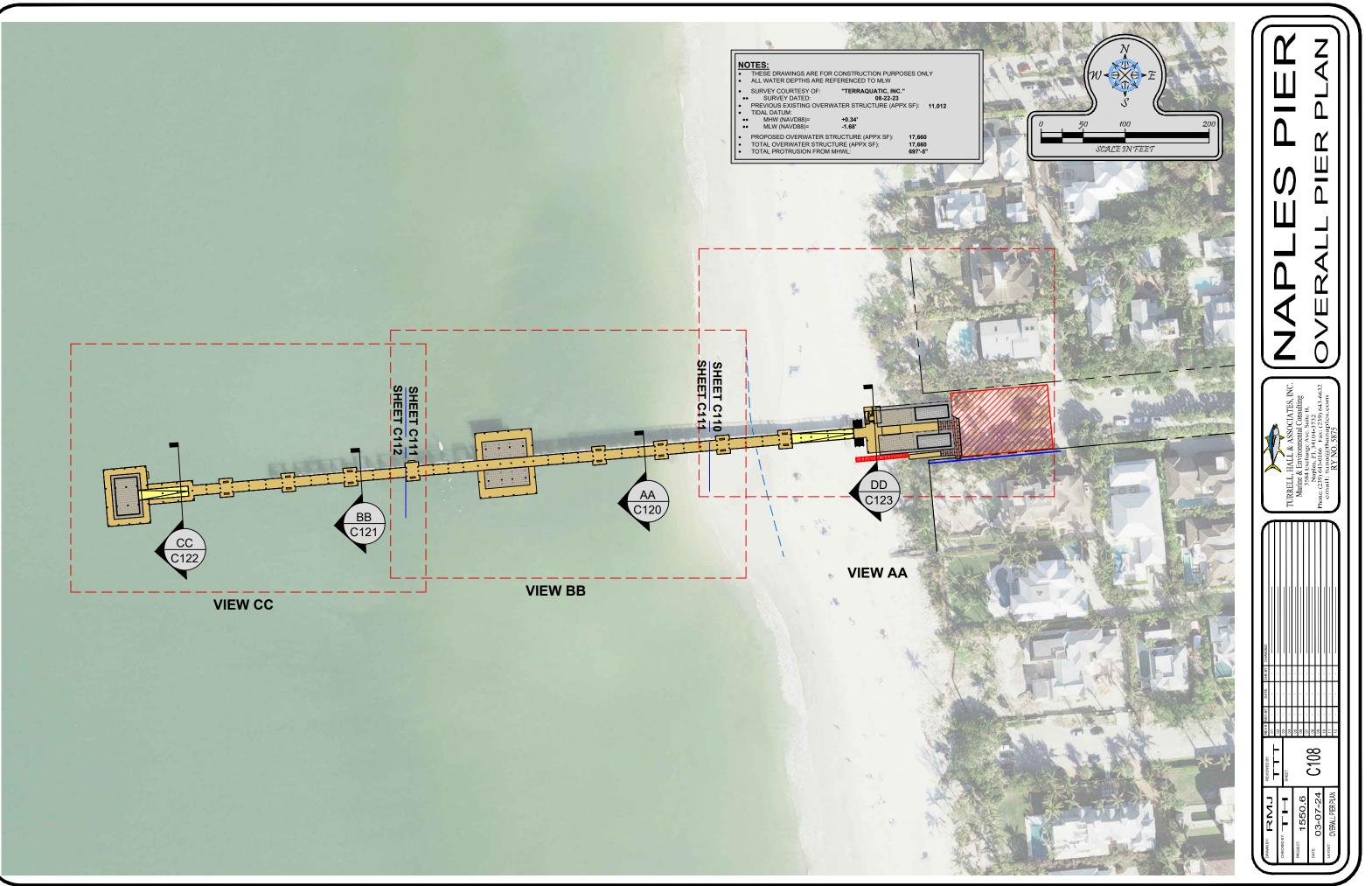




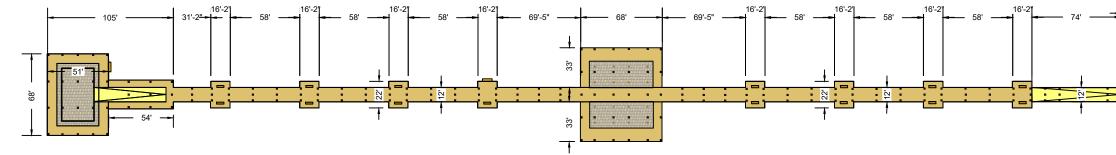


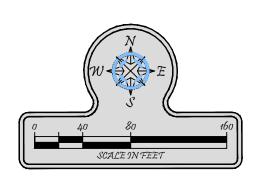


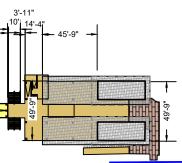




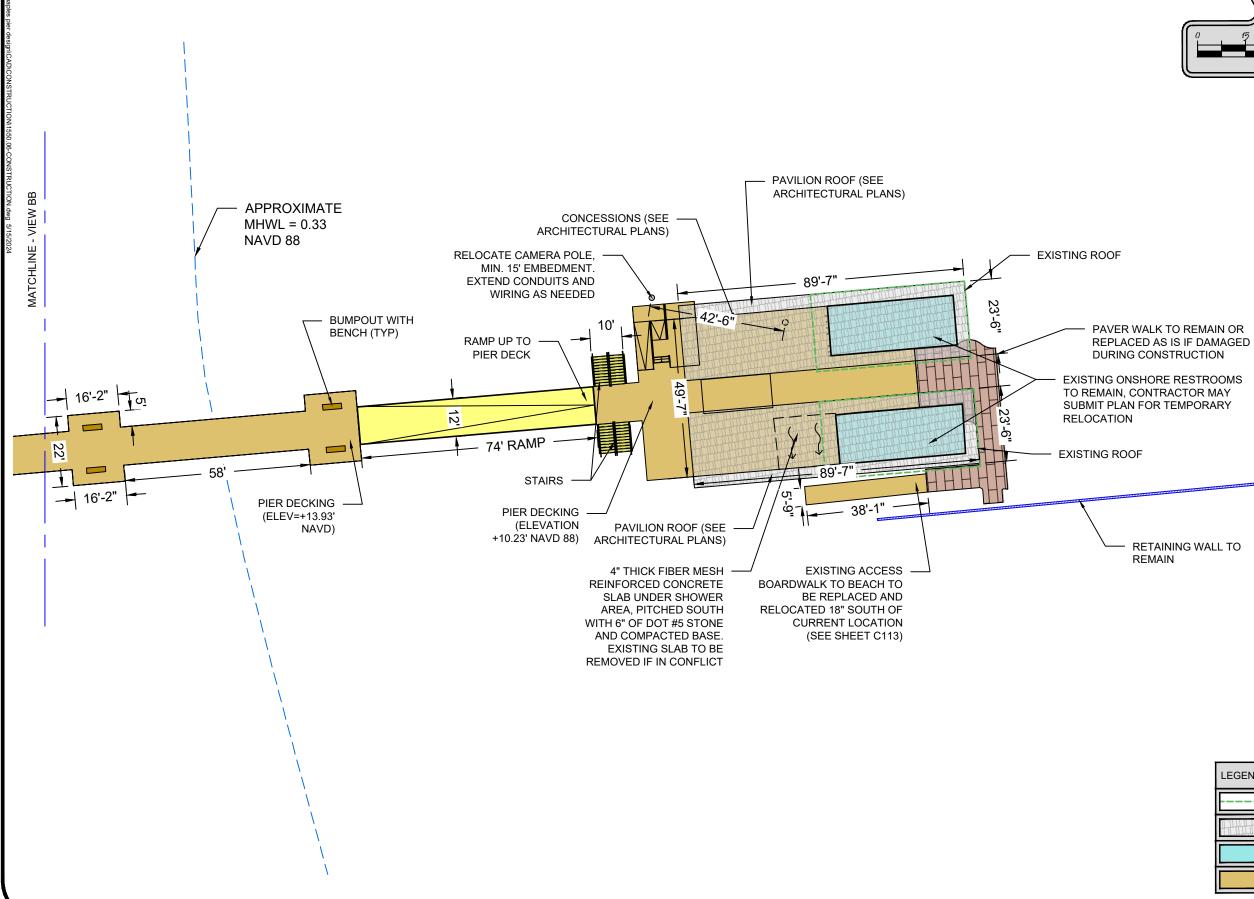


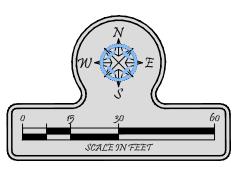








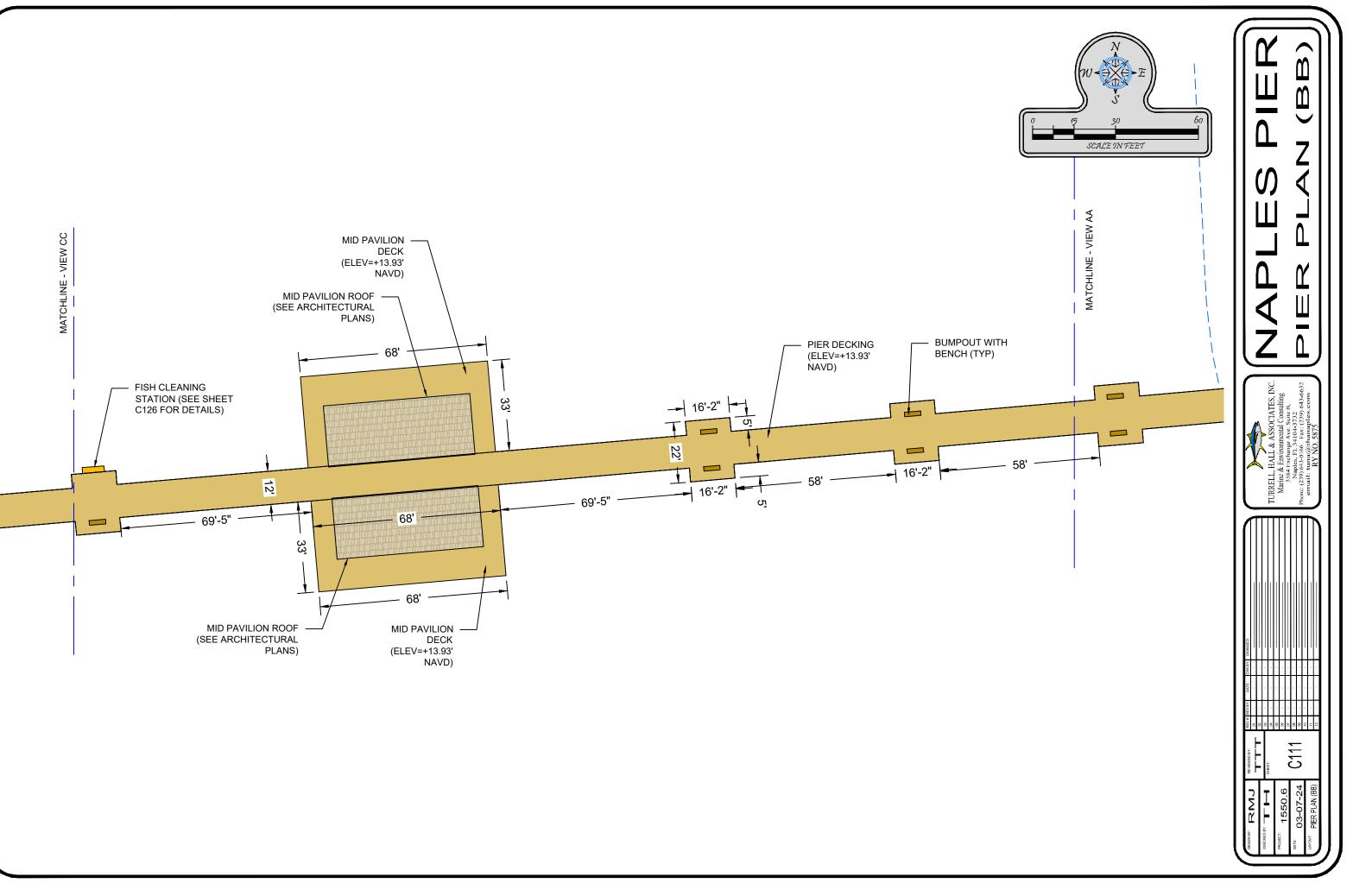


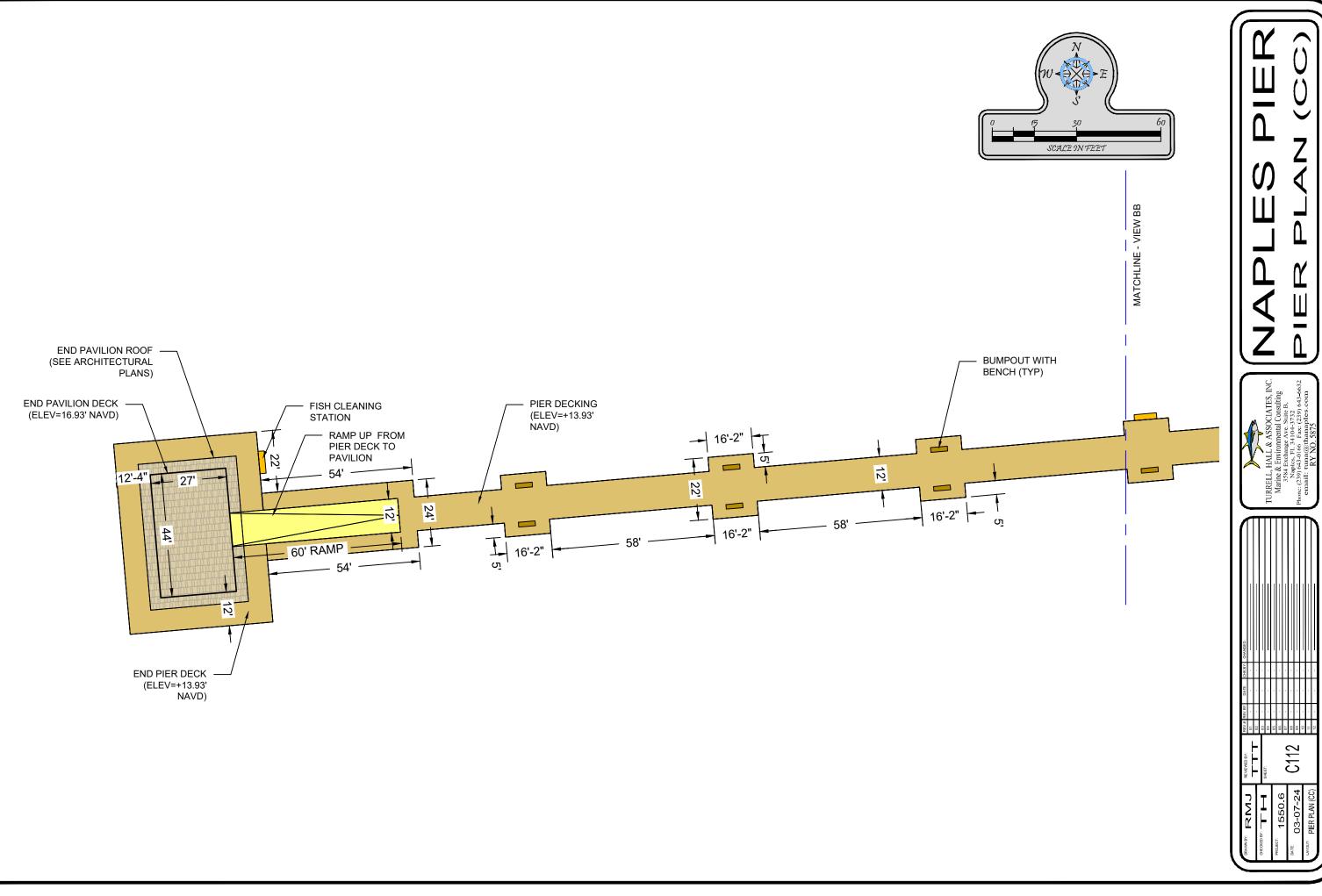


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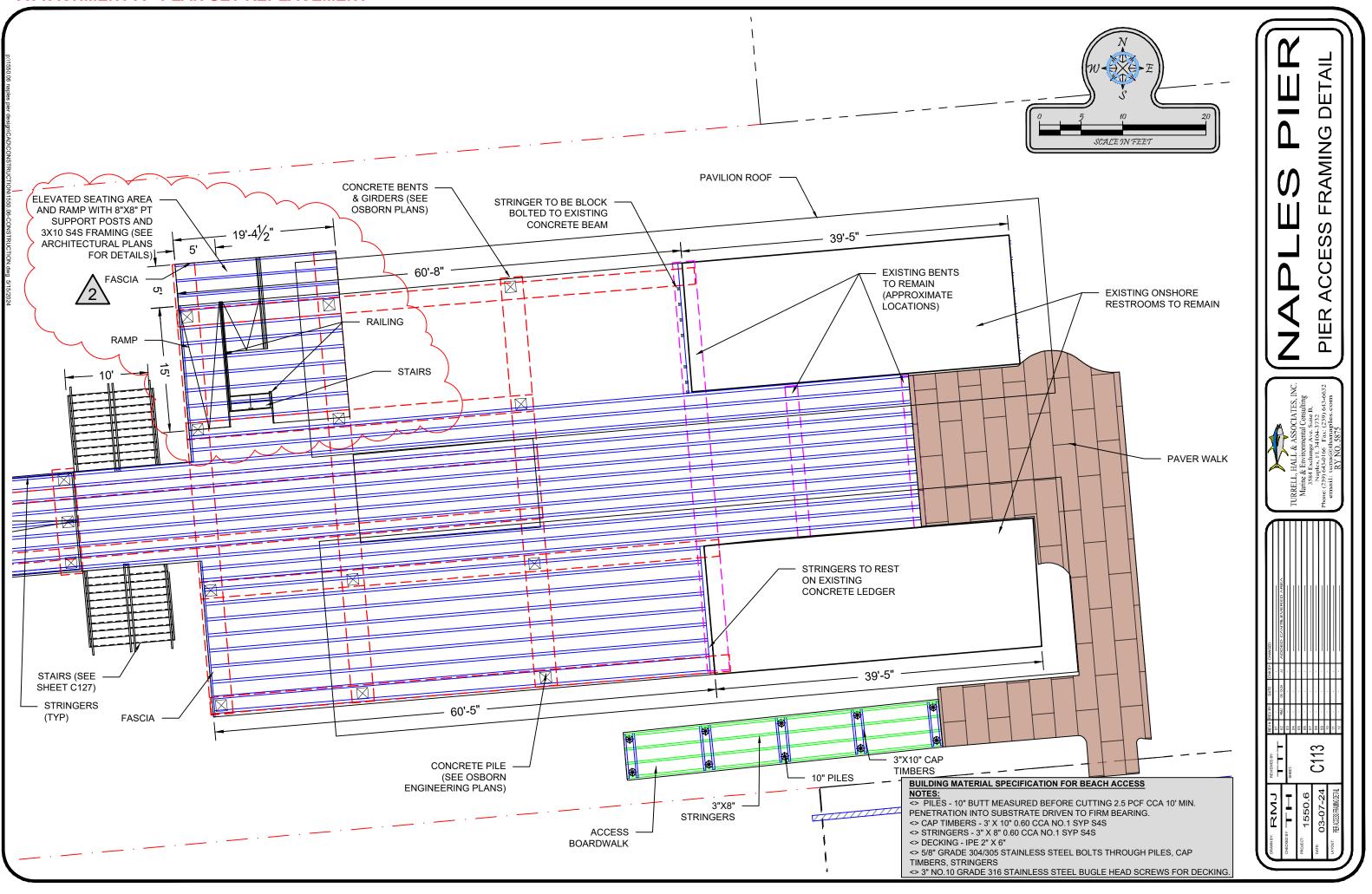
LEGEND	
EXISTING ROOF	
NEW ROOF	
EXISTING RESTROOMS	
NEW DECKING	



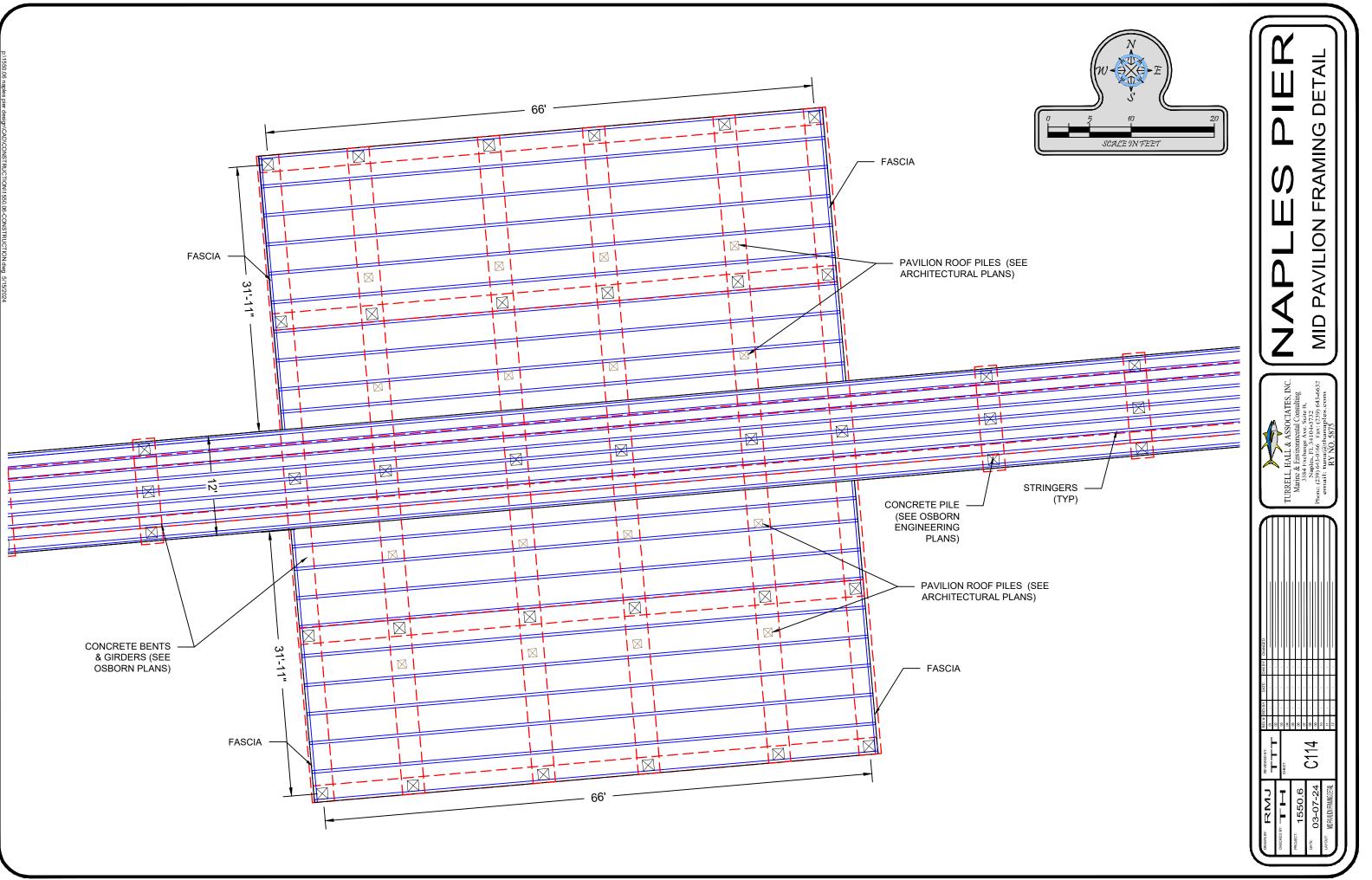


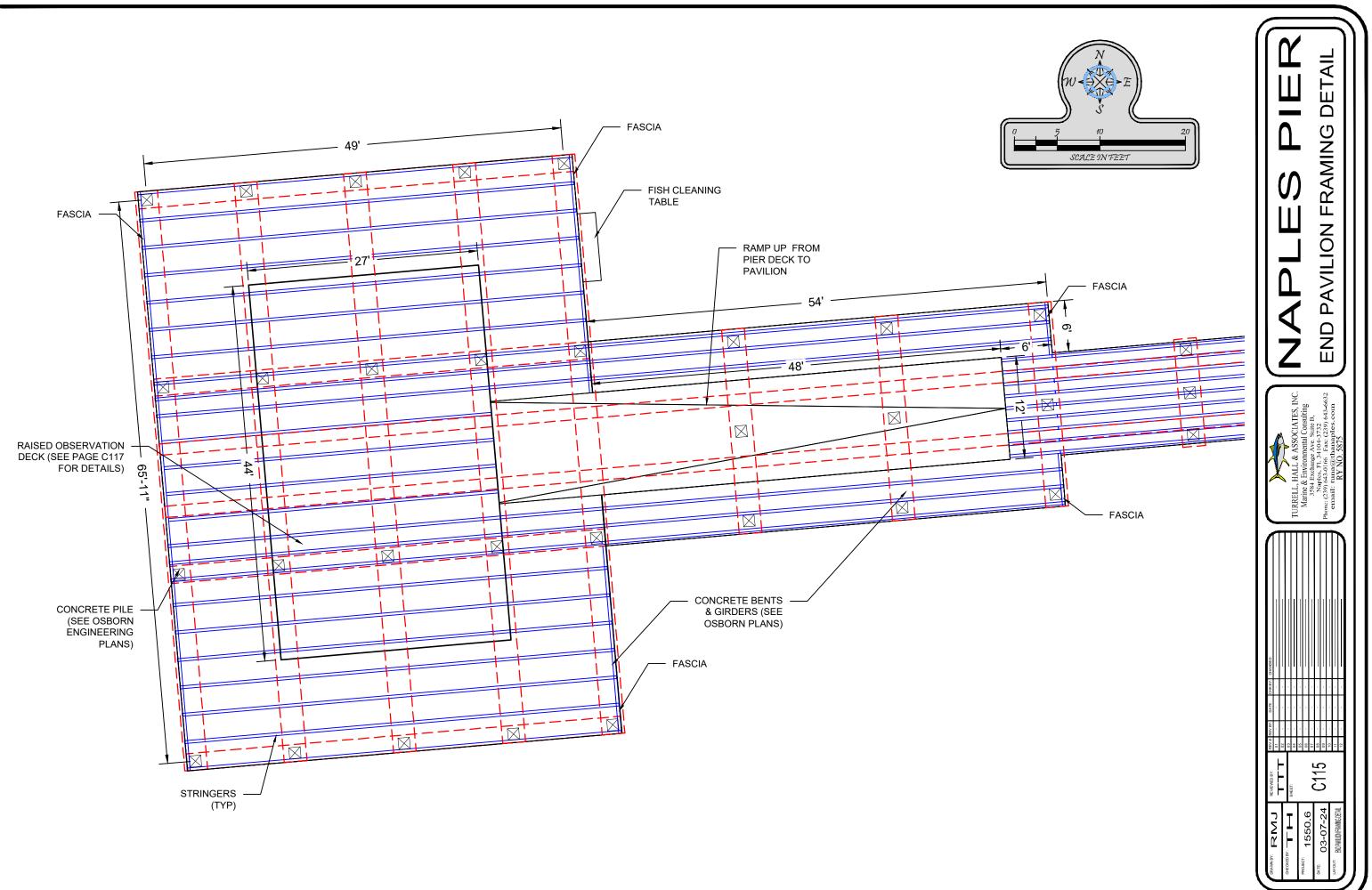


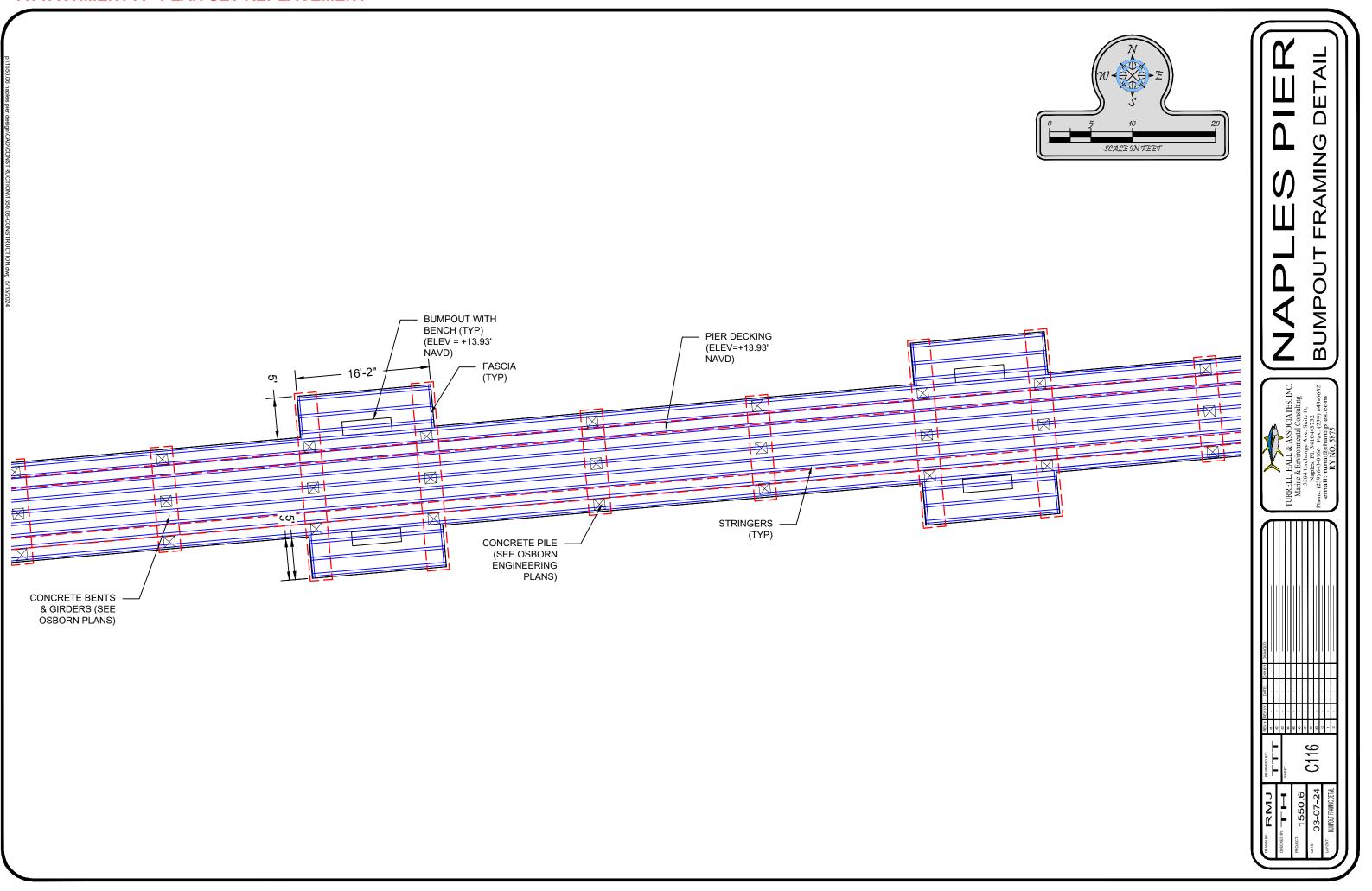


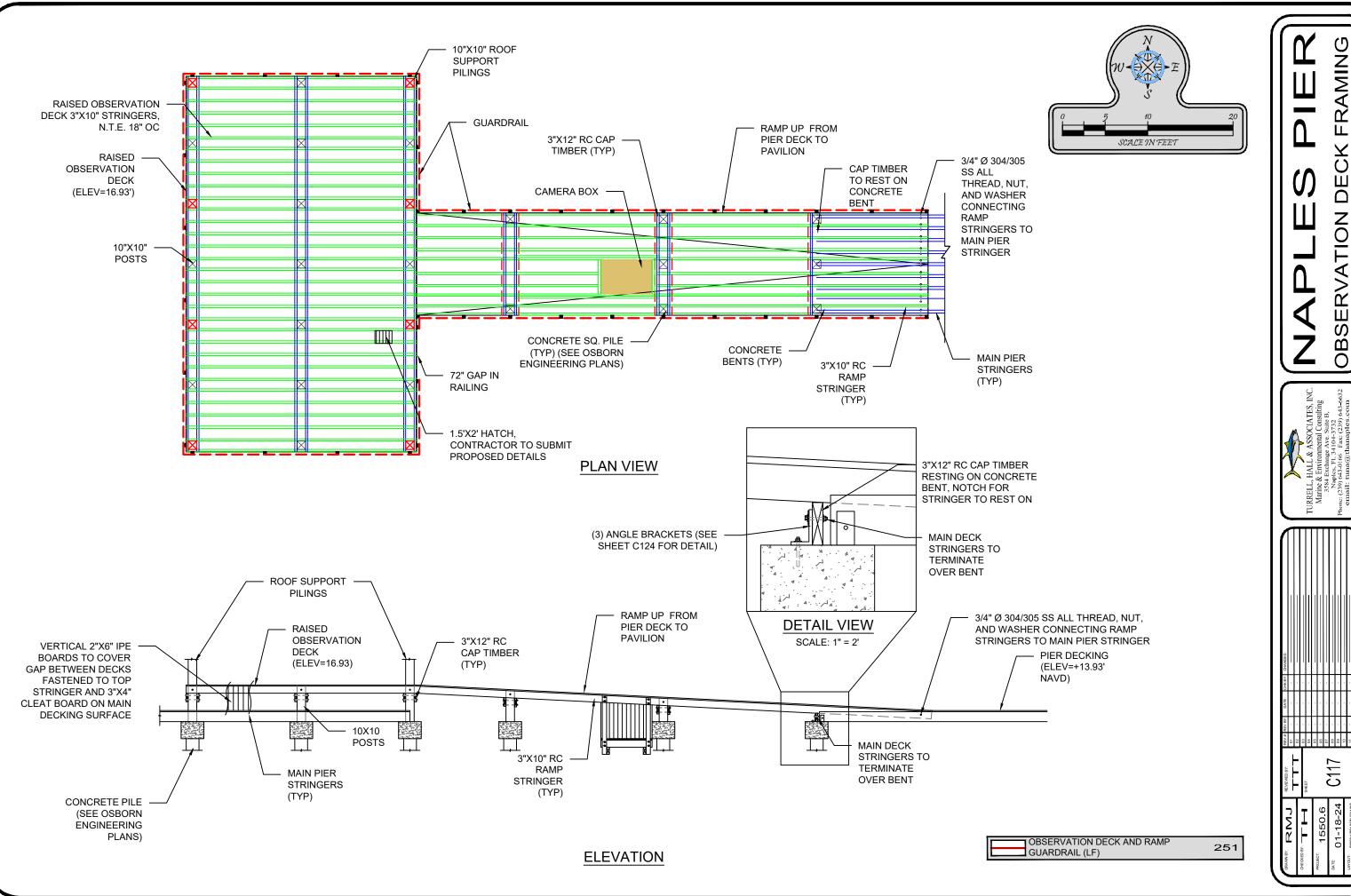












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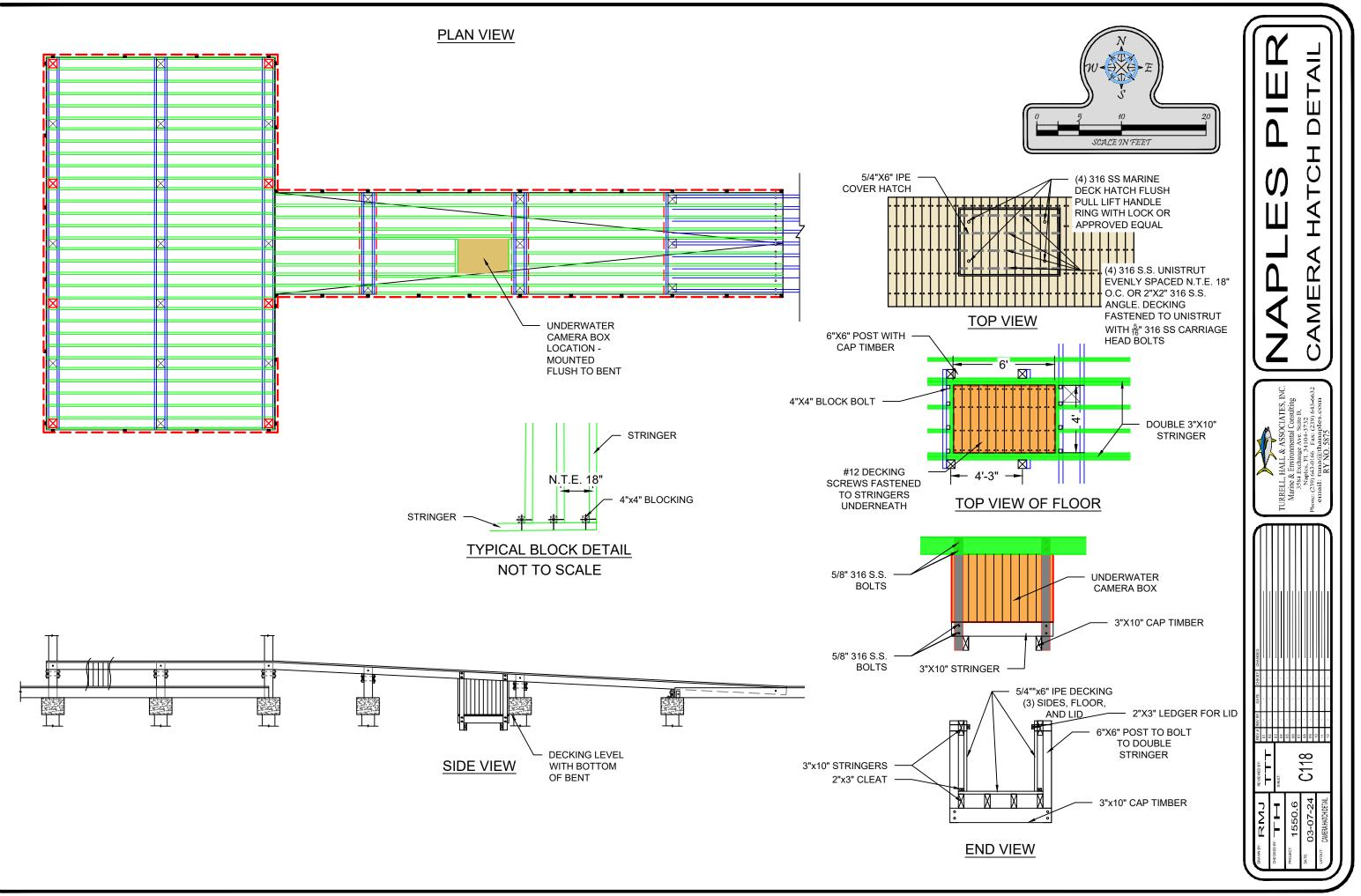
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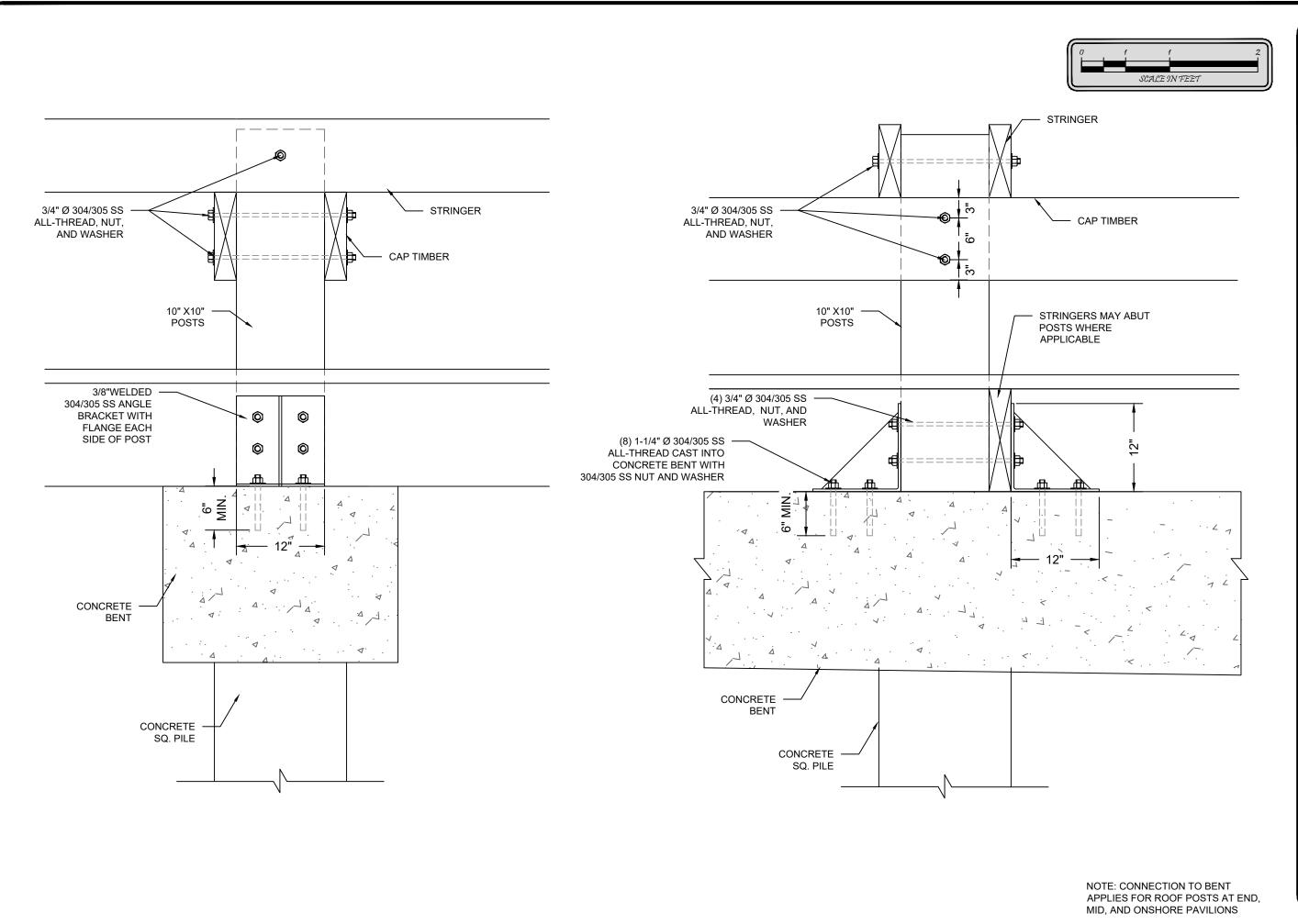
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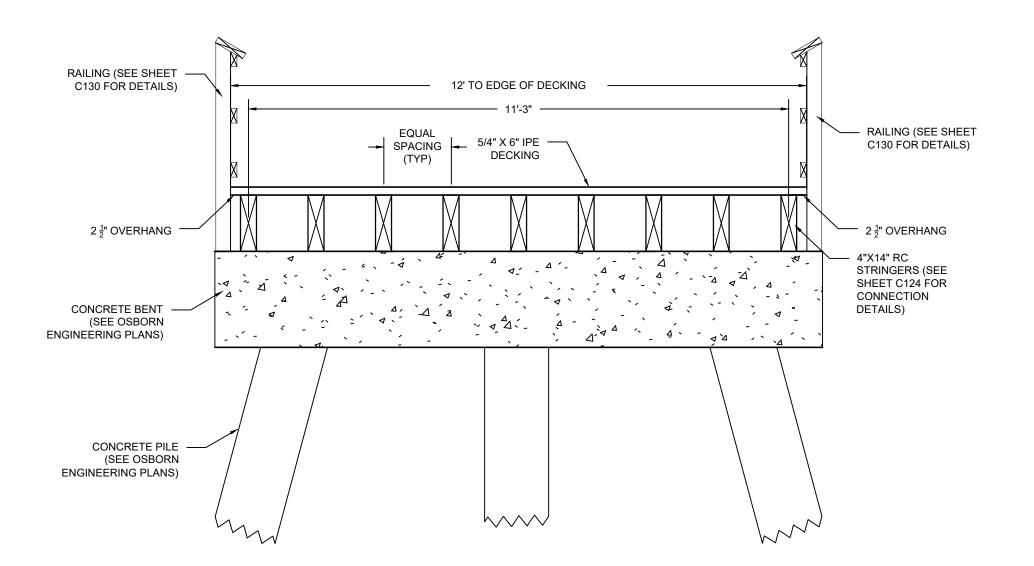
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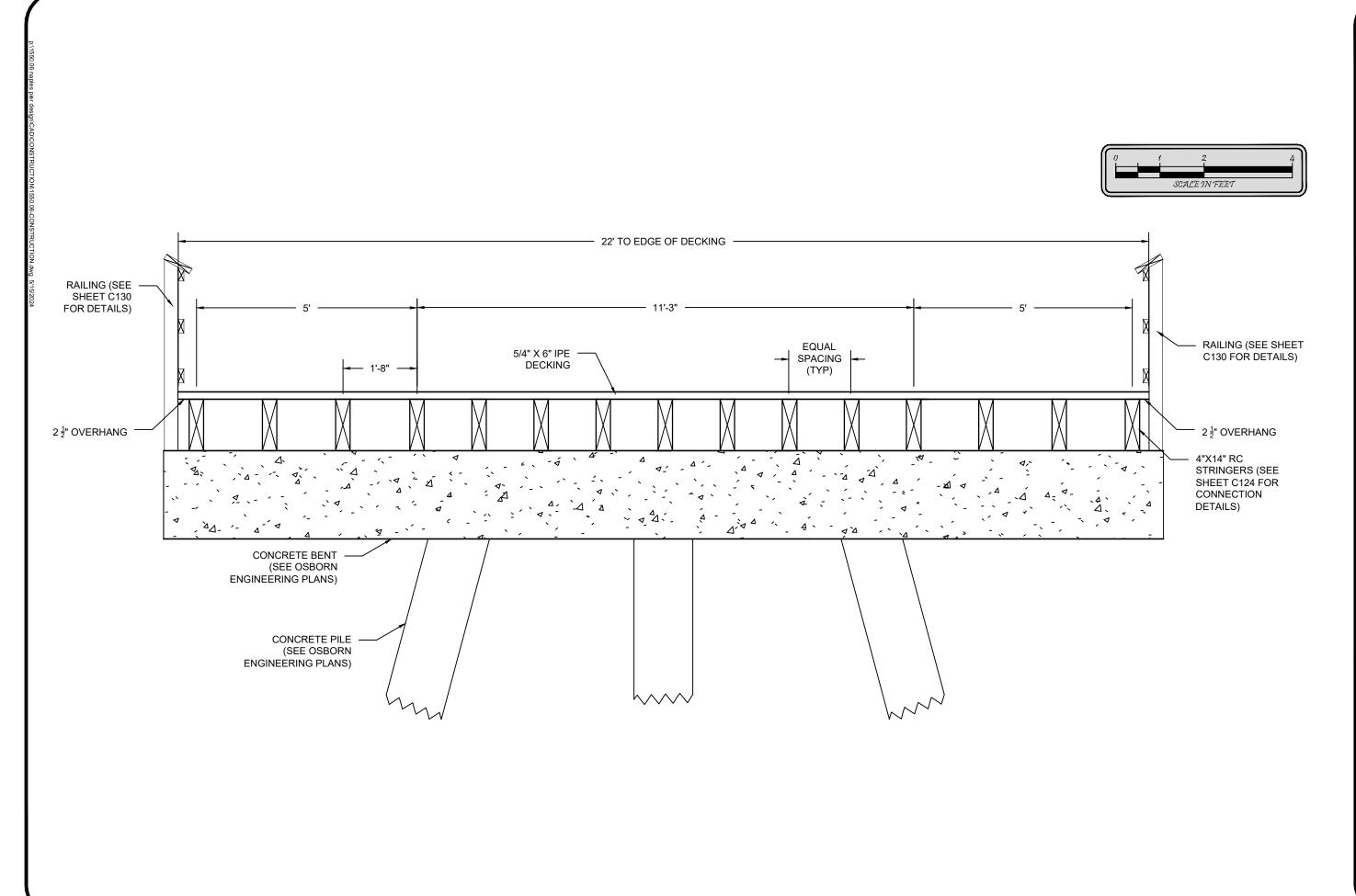




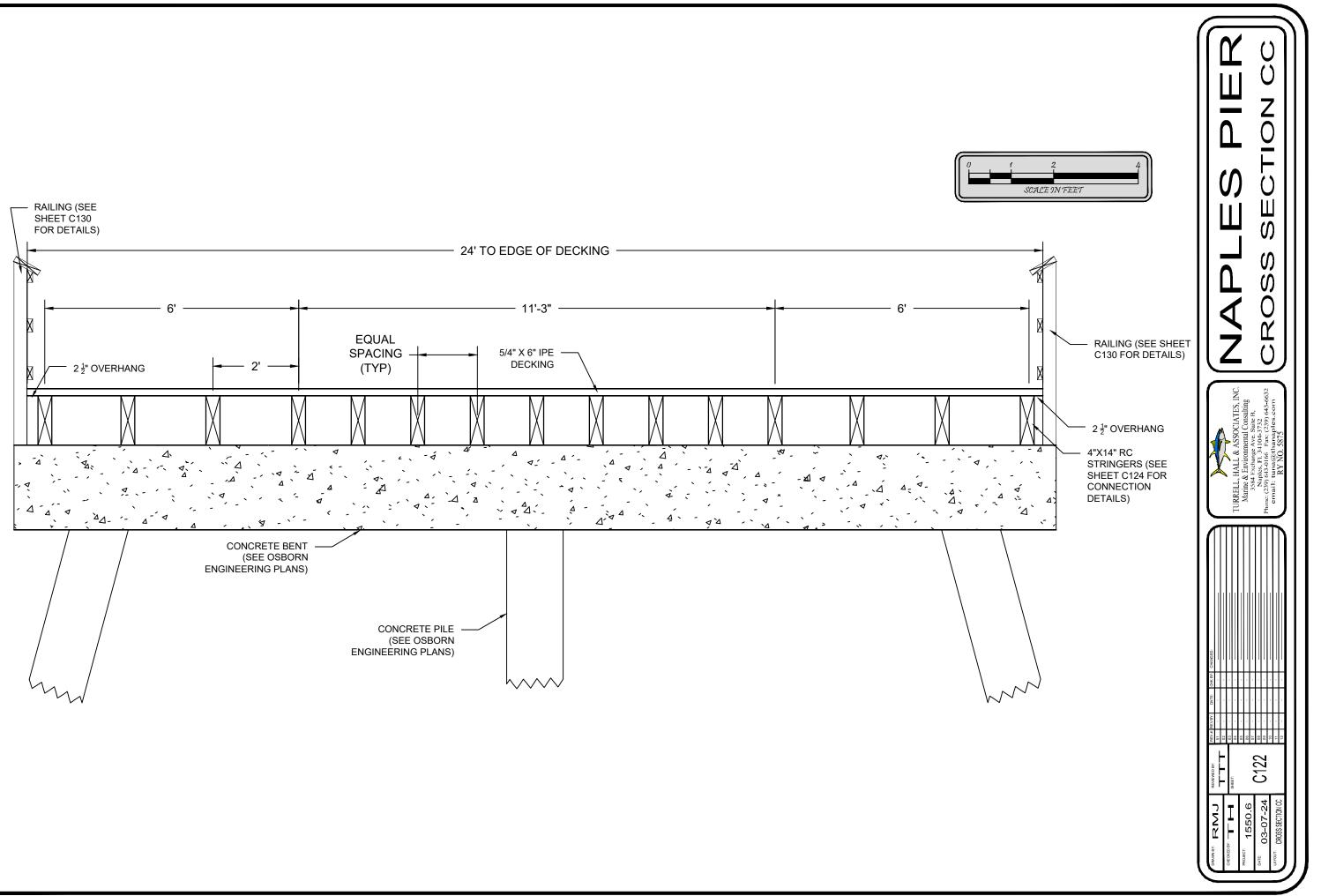


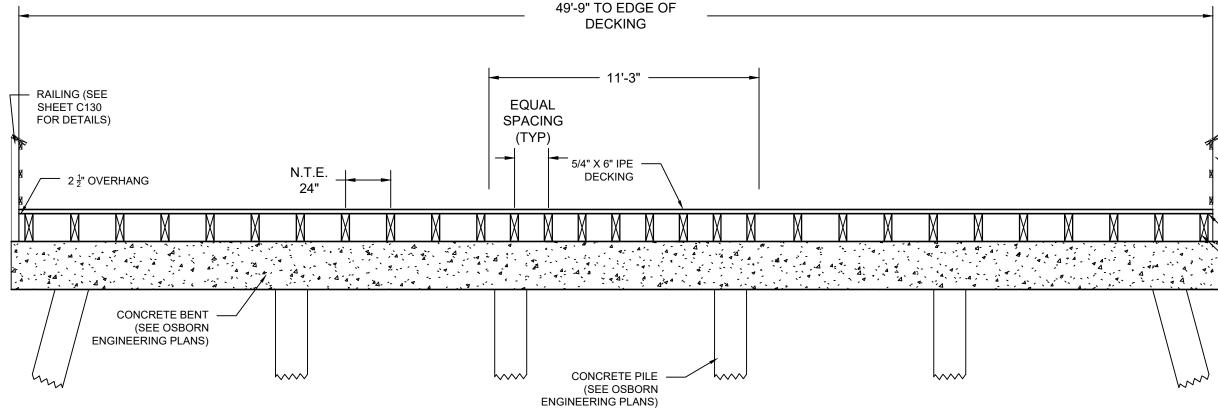


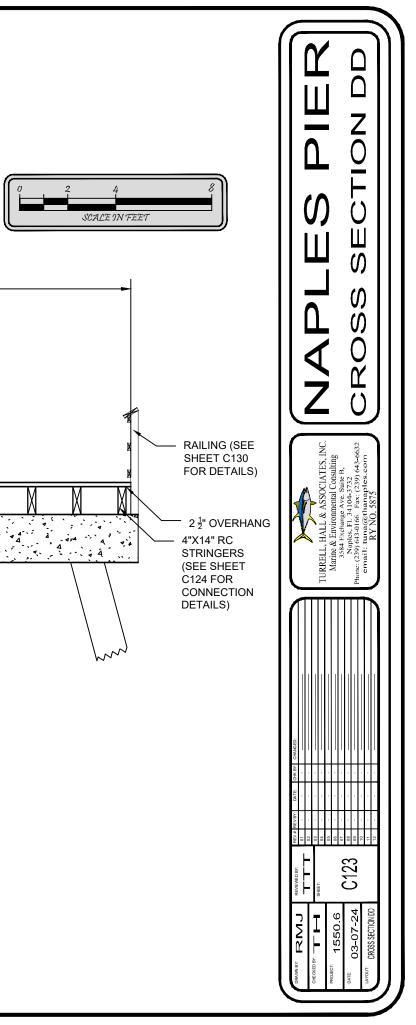


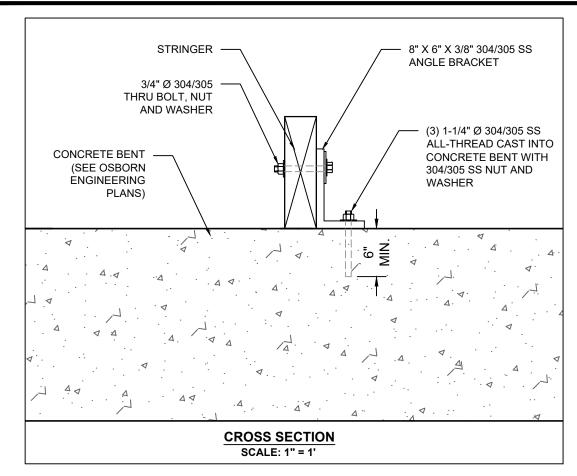


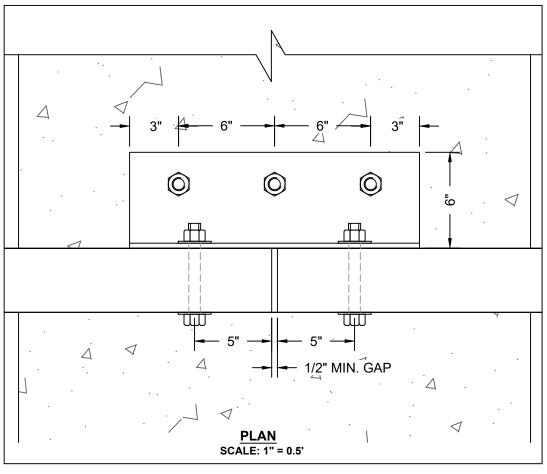




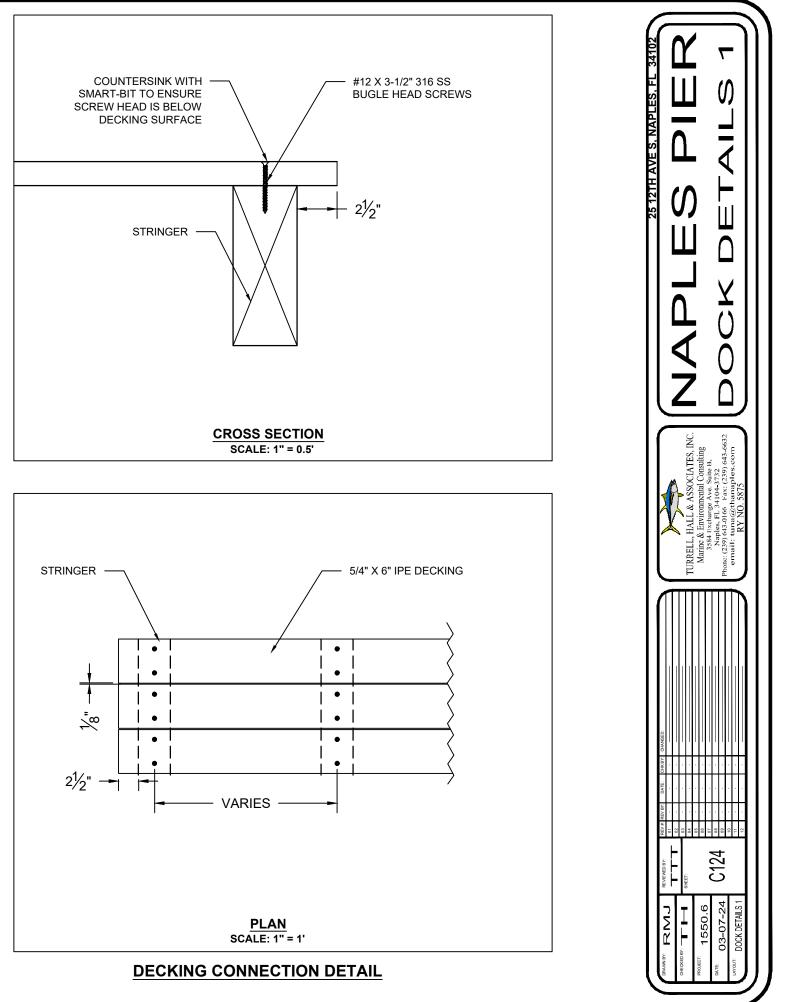


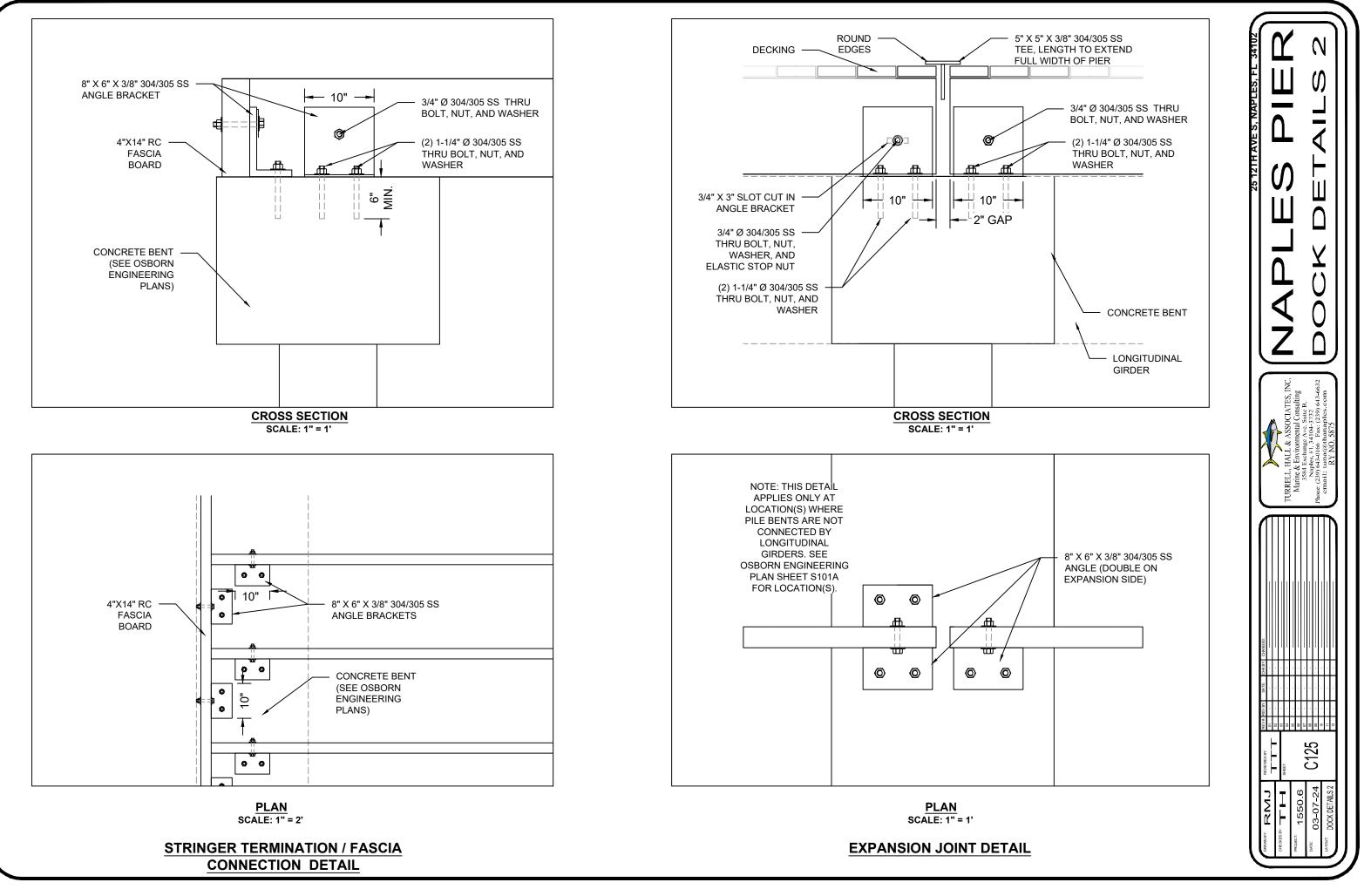


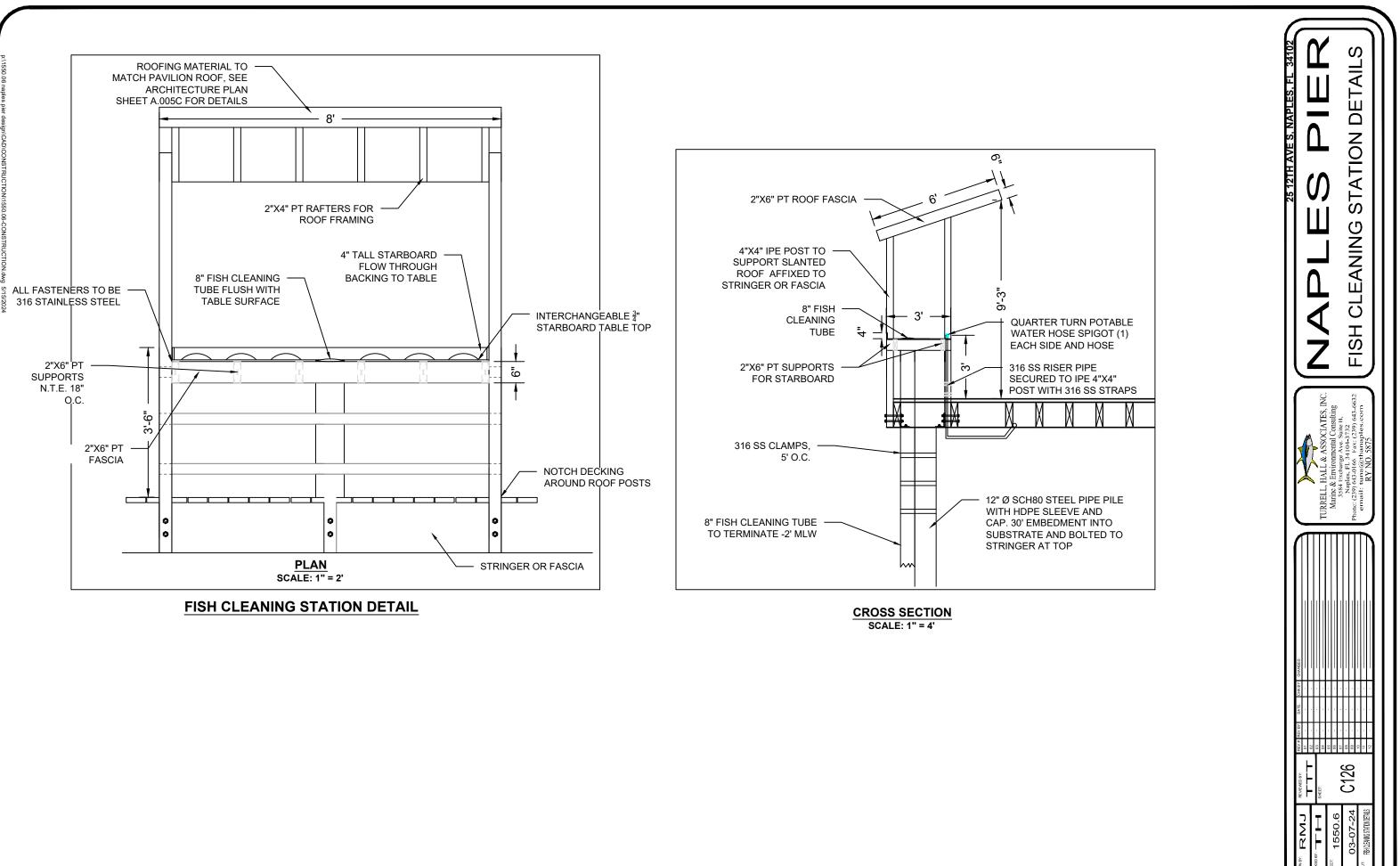




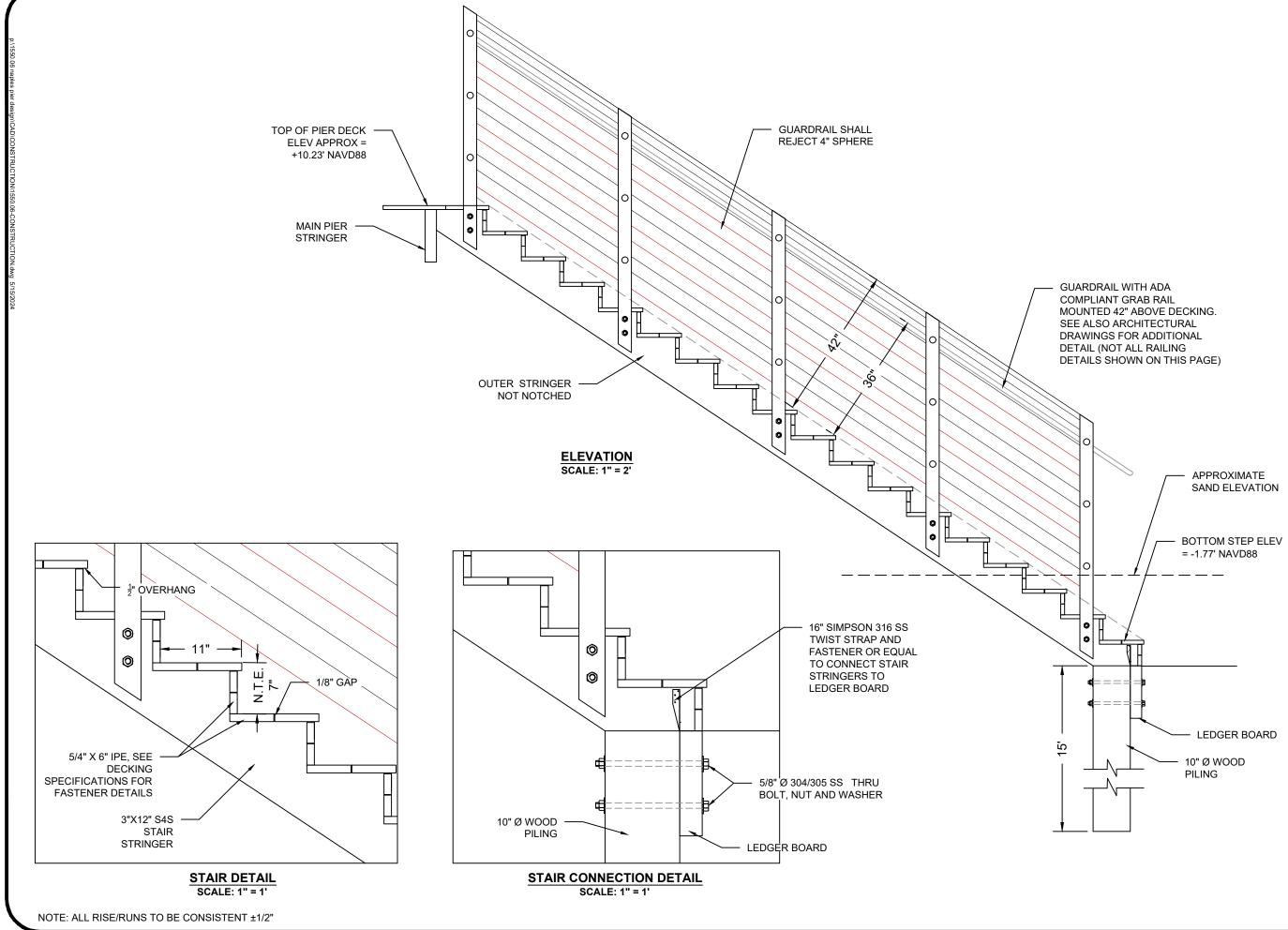
STRINGER CONNECTION DETAIL



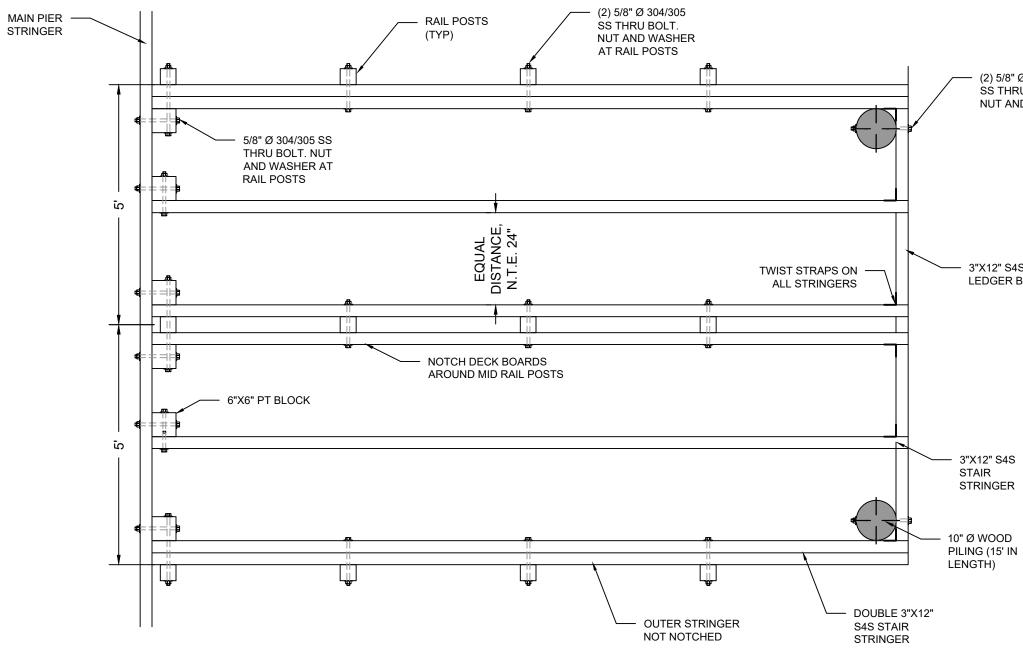












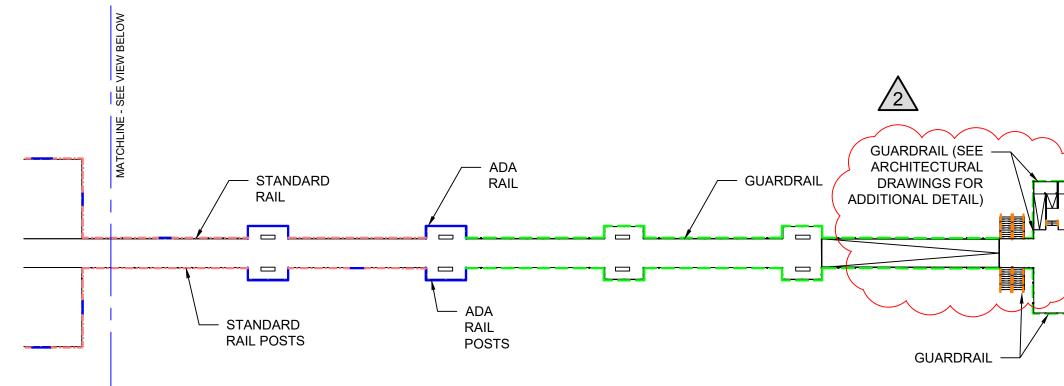
PLAN SCALE: 1" = 2'

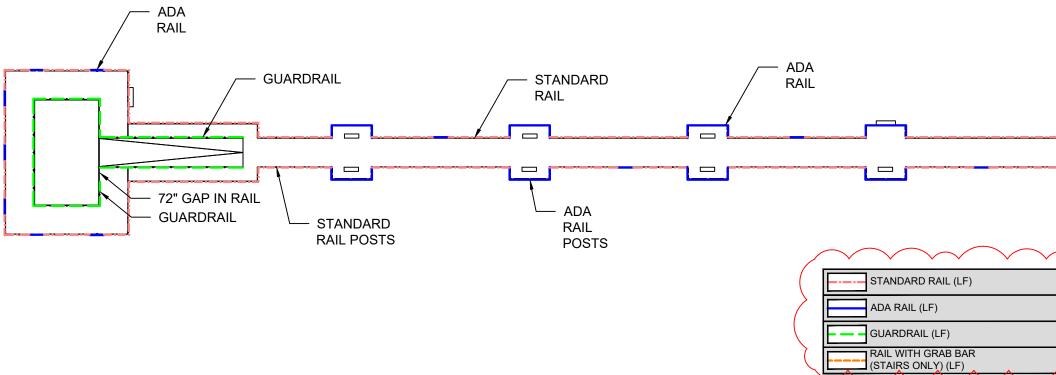
(2) 5/8" Ø 304/305 SS THRU BOLT NUT AND WASHER

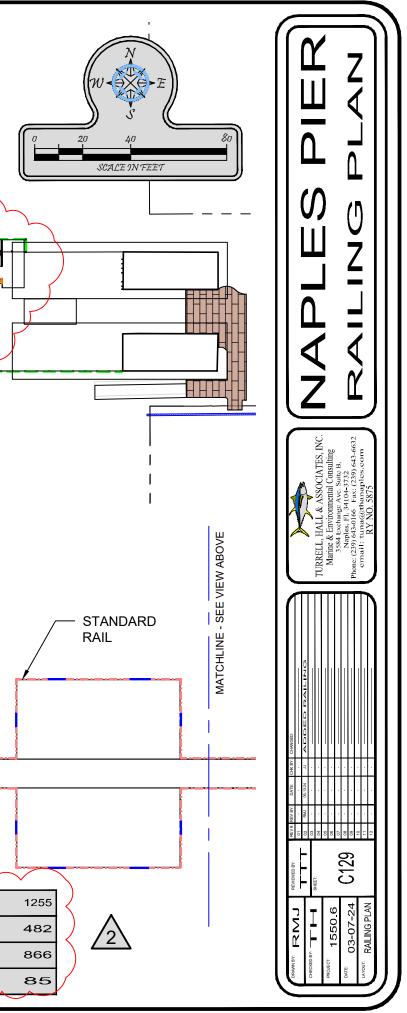
3"X12" S4S LEDGER BOARD

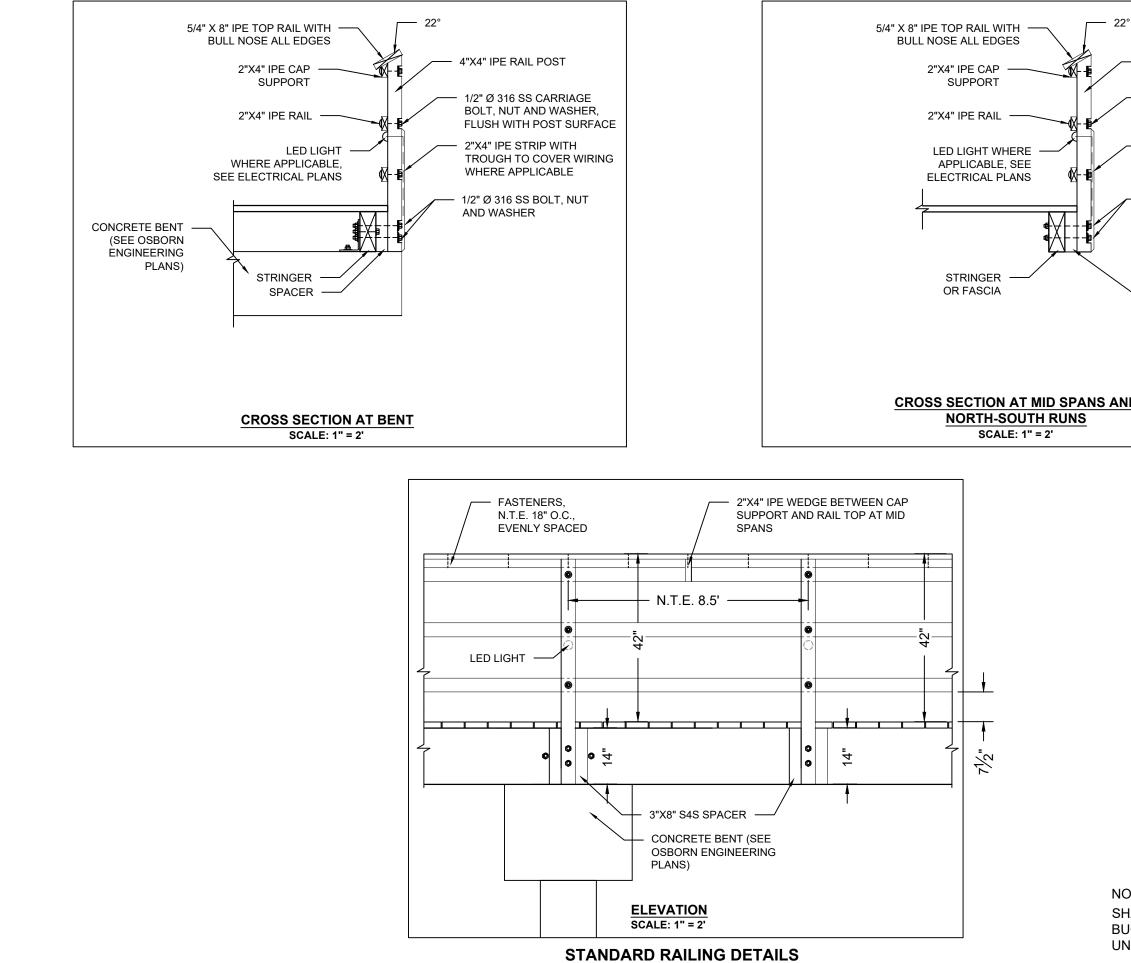
3"X12" S4S STAIR STRINGER







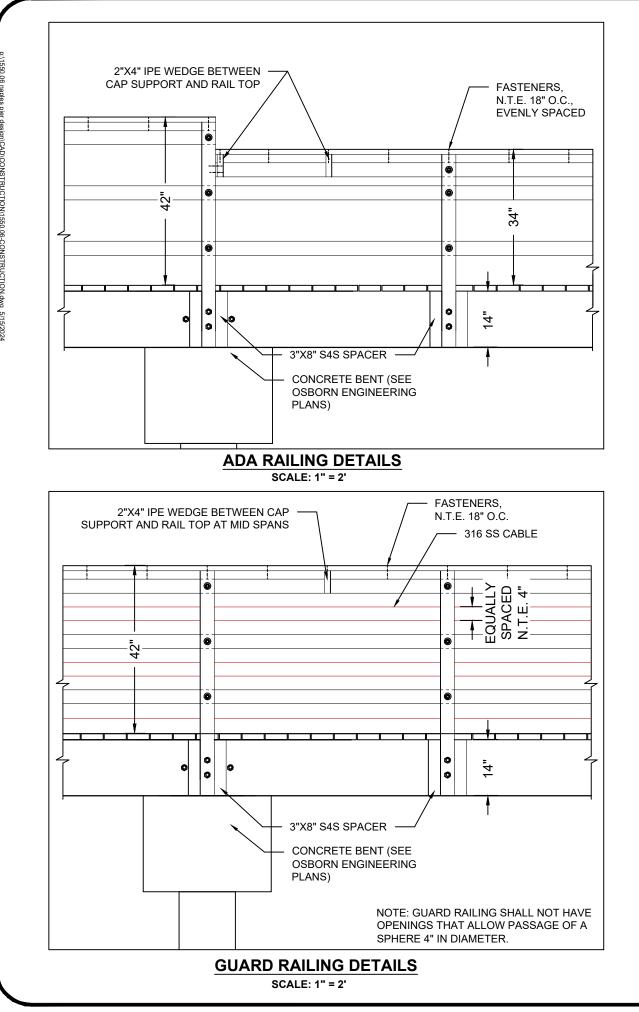


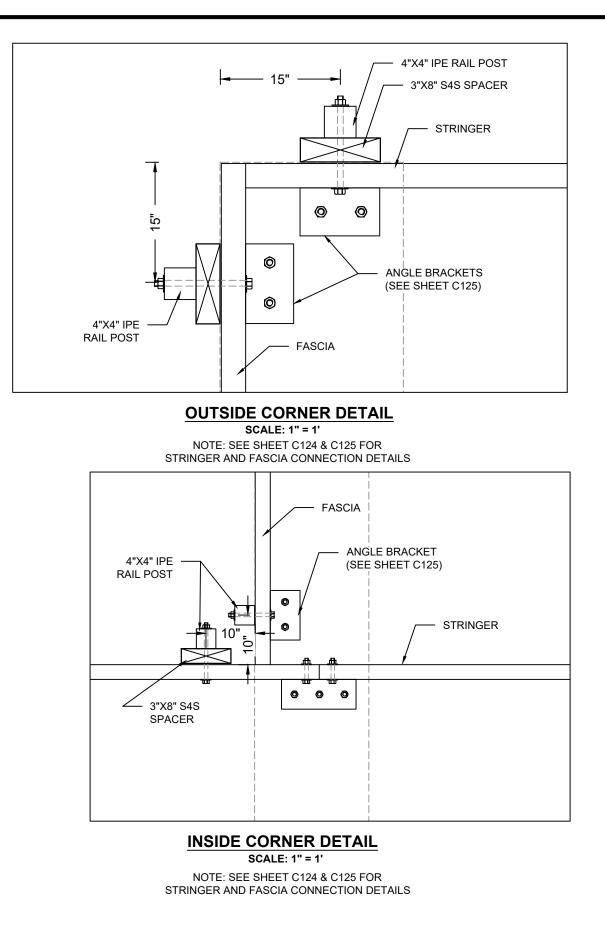


22°	
4"X4" IPE RAIL POST	
1/2" Ø 316 SS CARRIAGE BOLT, NUT AND WASHER, FLUSH WITH POST SURFACE	
2"X4" IPE STRIP WITH TROUGH TO COVER WIRING WHERE APPLICABLE	
1/2" Ø 316 SS BOLT, NUT AND WASHER	
SPACER (NOT NEEDED WHERE POST IS AFFIXED TO FASCIA BOARD)	NAPLE
	TURRELL, HALL & ASSOCIATES, INC.

NOTE: RAILING FASTENERS SHALL BE #12 X $3\frac{1}{2}$ " 316 SS BUGLE HEAD SCREWS UNLESS OTHERWISE NOTED.



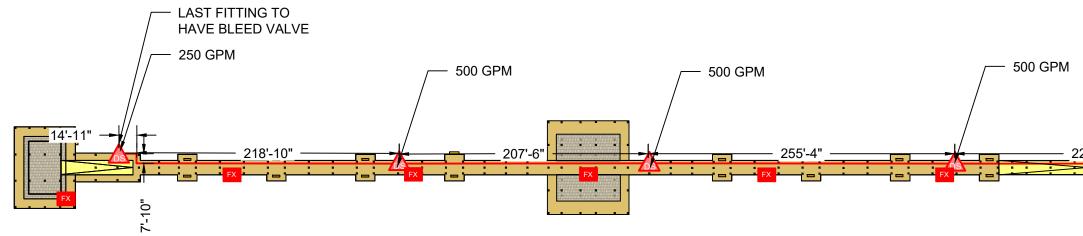




NOTE: RAILING FASTENERS SHALL BE #12 X $3\frac{1}{2}$ " 316 SS BUGLE HEAD SCREWS UNLESS OTHERWISE NOTED. CONTRACTOR TO SUBMIT PROPOSED WIRE RAIL SYSTEM INCLUDING CORNER DETAILS



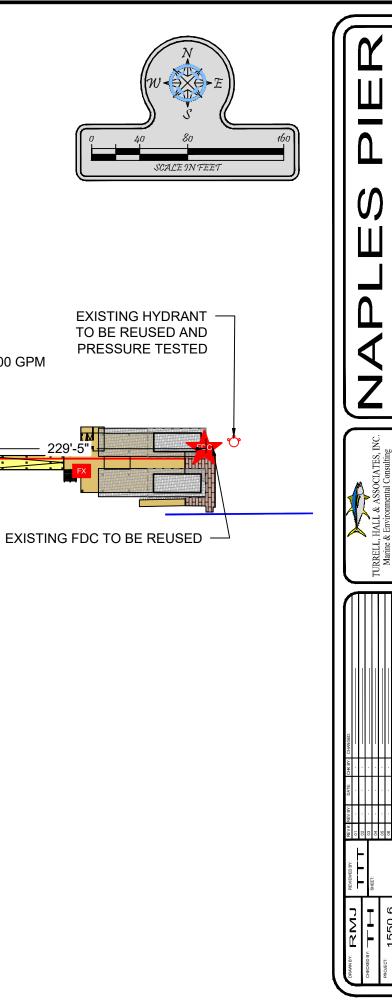




LEG	LEGEND			
FDC	FIRE DEPARTMENT CONNECTION			
FX	10LB SS FIRE EXTINGUISHER MOUNTED ON RAILING N.T.E. 75' WALKING DISTANCE EACH WAY, CATO FIRE EXTINGUISHER CABINET OR APPROVED EQUIVALENT			
	DRY STAND PIPE			
¢	EXISTING HYDRANT			
	4" 316 SS FIRE LINE			

FIRE PIPING SPECIFICATIONS:

- IN THE OT ENTERTICATION. INSTALLATION OF ALL PIPING SHALL BE PER THE LATEST EDITION ACCEPTED BY THE LOCAL AHJ OF THE FLORIDA BUILDING CODE PLUMBING EDITION, NFPA 303, NFPA 14. 1
- ALL PIPING SHALL BE 316 STAINLESS STEEL AND ALL FITTINGS SHALL BE CLAMPED. 2
- ALL PIPING SHALL BE PRESSURE TESTED AFTER CONNECTING APPLICABLE VALVES. 3. PIPING SHALL BE TESTED TO AT LEAST 200 PSIG AND PRESSURE SHALL BE MAINTAINED FOR A MINIMUM OF 2 HRS.
- 4. ALL PIPE HANGERS, STRAPS, NUTS, BOLTS, ANGLE SUPPORTS, ETC. SHALL BE STAINLESS
- STEEL.
- ALL 90 DEGREE BENDS SHALL BE LONG RADIUS. CONTRACTOR SHALL SUBMIT ALL MATERIALS TO EOR AND FIRE DEPARTMENT PRIOR 5. 6. TO COMMENCEMENT FOR NECESSARY APPROVALS.
- ALL UNDERGROUND PIPING TO HAVE A FIRE INSPECTION. 7.
- ALL TESTING SHOULD OCCUR BEFORE DECKING. 8
- ALL PIPING SECTIONS TO BE COUPLED WITH 316SS FLEXIBLE COUPLINGS. 9.
- CONTRACTOR RESPONSIBLE TO HAVE PROPERLY LICENSED FIRE CONTRACTOR INSTALL 10. AND TEST SYSTEM.
- 11. CONTRACTOR RESPONSIBLE TO SUPPLY AND INSTALL ALL NECESSARY CORROSION RESISTANT SIGNAGE.
- 12. CONTRACTOR TO CONDUCT FLOW TESTING AT ALL HOSE CONNECTIONS.





Dry Standpipe Hydraulic Calculations

Design Criteria:

NFPA 14 2019: Standard for the installation of standpipe and hose systems 13.5.4.2 Standpipe systems shall be designed to provide 100 psi at the most remote outlet with the calculations terminating at the fire department connection.

13.5.5.1 The minimum flow rate for the hydraulically most remote standpipe shall be 500gpm, through the two most remote 2-1/2" outlets, and the calculation procedure shall be in accordance with 13.5.6.

13.5.5.2 Where the system supplies three or more hose connections, the minimum flow rate for the hydraulically most demanding horizontal standpipe shall be 750 GPM, and the calculation procedure shall be in accordance with 13.5.6.1.

13.5.6.1 Where a standpipe system supplies three or more hose connections on any pier, dock or similar structure hydraulic calculations and pipe sizes for each standpipe shall be based on providing 250gpm at the three hydraulically most remote hose connections on the standpipe and the most remove outlet of each other standpipes at the minimum residual pressure required by 13.5.4.

250 GPM @ 100 PSI Residual at most remote valve

Naples Pier	
Most Remote Valv	

Most Remote valve	
GPM	250
Result overall PSI (drop)	24.0749496

SS		

SS					
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)	
2-1/2	2.5	150	75	10.041108	
3	3	150	0	0	
4	4	150	1034	14.033842	
HDPE					
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)	
2	1.92	150	0	0	
3	2.83	150	0	0	
4	3.633	150	0	0	
6	5.349	150	0	0	
GPM = Gallons per minute					
PSI = Pounds per square inch					
Bas	ed on Hazen-Wil	liams Formula			

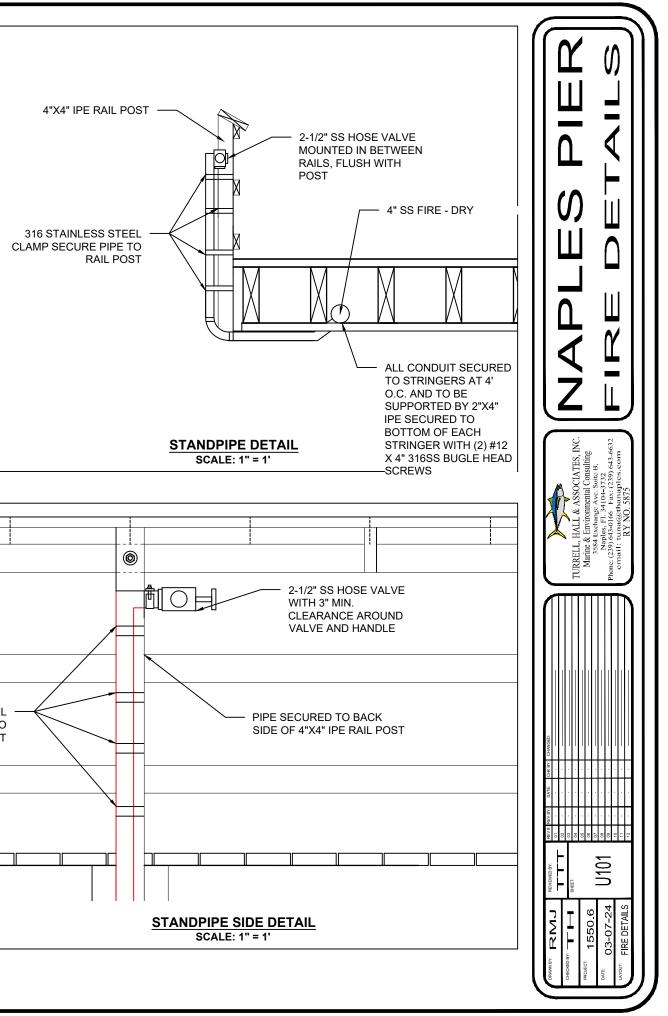
Naples Pier				
2ND Most Remote Valve				
GPM	500			
Result overall PSI (drop)	74.3624092			
SS				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2-1/2	2.5	150	75	36.198212
3	3	150	0	0
4	4	150	780	38.164198
HDPE				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2	1.92	150	0	0
3	2.83	150	0	0
4	3.633	150	0	0
6	5.349	150	0	0
G	PM = Gallons	per minute		
PSI = Pounds per square inch				
Bas	ed on Hazen-Wil	liams Formula		

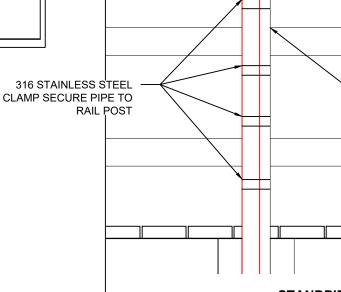
3rd Most Remote Valve				
GPM	500			
Result overall PSI (drop)	51.0943755			
SS				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2-1/2	2.5	150	75	36.19821
3	3	150	0	0
4	4	150	572	27.98708
HDPE				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2	1.92	150	0	0
3	2.83	150	0	0
4	3.633	150	0	0
6	5.349	150	0	0
				·
GPM = Gallons per minute				
PSI = Pounds per square inch				
Bas	ed on Hazen-Wil	liams Formula		

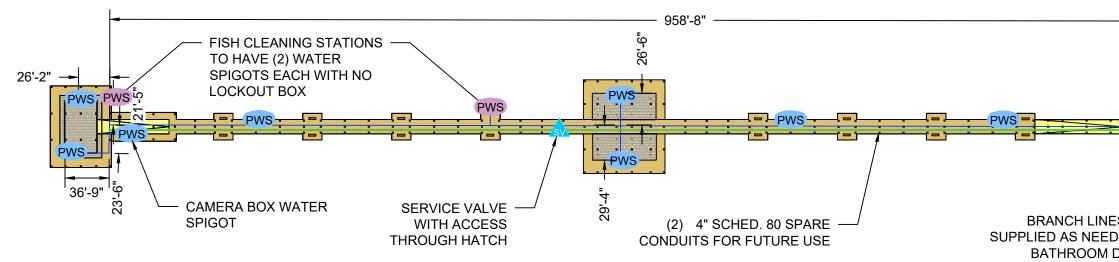
Naples Pier

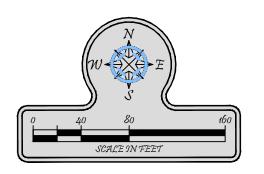
Naples Pier 4th Most Remote Valve				
GPM	500	1		
Result overall PSI (drop)	51.7085329			
SS				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2-1/2	2.5	150	75	36.19821
3	3	150	0	
4	4	150	317	15.51032
HDPE				
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2	1.92	150	0	
3	2.83	150	0	
4	3.633	150	0	
6	5.349	150	0	
G	PM = Gallons	per minute		
PSI	I = Pounds per	square inch		

Based on Hazen-Williams Formula



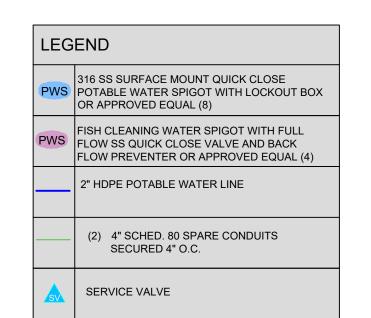


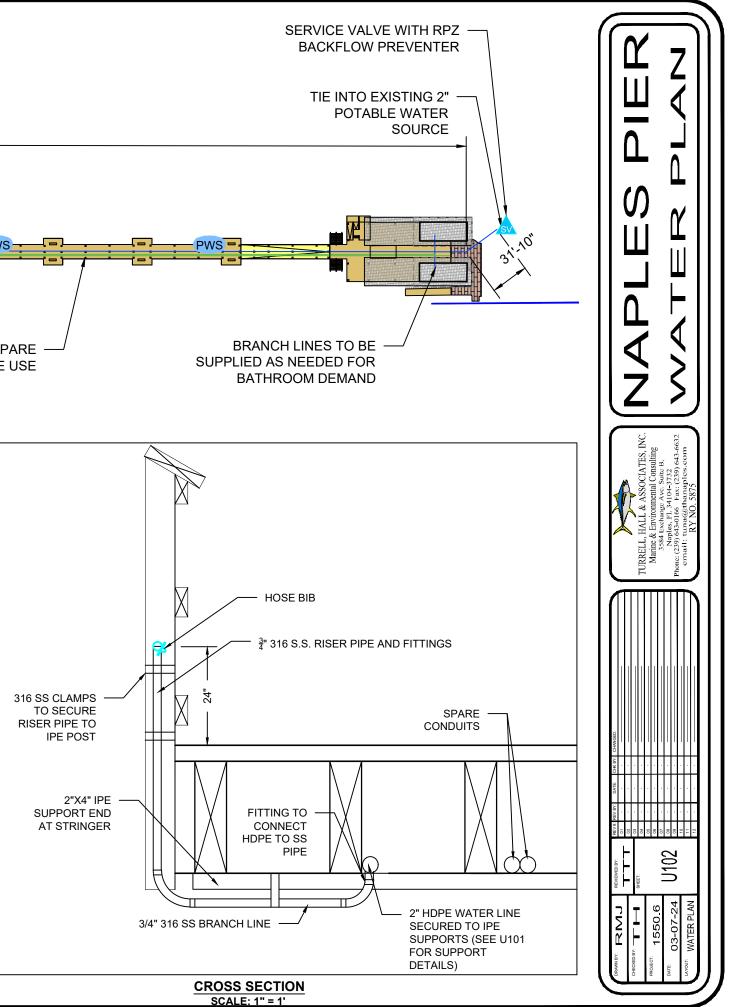




POTABLE WATER SPECIFICATIONS:

- INSTALLATION OF ALL PIPING SHALL BE PER THE LATEST EDITION ACCEPTED BY 1 THE LOCAL AHJ OF THE FLORIDA BUILDING CODE - PLUMBING EDITION AND COMPLY WITH AWWA C901, ASTM D3350, AND ASTM F714.
- 2. ALL PIPES, FITTINGS, AND JOINTS SHALL CONFORM TO THE FOLLOWING:
- 2.1. WATER TRUNK LINES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) SDR 11 PRESSURE RATED PIPE WITH HEAT FUSED JOINTS. THE PIPING SHALL HAVE UV STABILIZERS.
- 2.2.
- BALL VALVES FOR SERVICE VALVES SHALL BE FULL PORT TYPES ALL PLUMBING SHALL BE PRESSURE TESTED PRIOR TO CONNECTING TO EXISTING 3. UTILITIES. TEST RESULTS SHALL BE SIGNED BY THE LICENSED PLUMBER AND PROVIDED TO THE EOR. PIPING SHALL BE TESTED TO A MINIMUM OF 1.5X STREET PRESSURE AND PRESSURE SHALL BE MAINTAINED FOR AT LEAST 2 HOURS.
- DOMESTIC WATER SUPPLY SHALL BE CONNECTED / EXTENDED
- ALL PIPE HANGERS, STRAPS, NUTS, BOLTS, ANGLE SUPPORTS, ETC. SHALL BE 316 5. STAINLESS STEEL.
- PIPING SHALL BE STRAPPED TO DOCK SYSTEM UTILIZING INTERFERENCE FIT 316 6. STAINLESS STEEL STRAPS THAT RESTRAIN EXPANSION AND CONTRACTION.





WIND LOAD:

WAVE LOAD:

ULTIMATE DESIGN WIND SPEED (Vult) NOMINAL DESIGN WIND SPEED (Vasd WIND EXPOSURE:

ENVIRONMENTAL CLASSIFICATION:

GENERAL CONDITIONS:

1

6.

2.

EXISTING CONDITIONS:

WIND EXPOSURE: INTERNAL PRESSURE COEFFICIENT: COMPONENTS AND CLADDING PRESSURE:

BUILDING DESIGN CRITERIA		PRECAST CONCRETE PILES
GOVERNING CODE: 2023 FLORIDA BUILDI	IG CODE IN CONJUNCTION WITH ASCE 7-22	1. CODES AND STANDARDS:
RISK CATEGORY:	Ш	ALL PRECAST CONCRETE PILE WORK, DETAILING, FABRICATION AND FRECTION SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST
FLOOR LIVE LOADS:		EDITIONS OF BELOW UNLESS NOTED OTHERWISE: A FDOT STANDARD SPECS FOR ROAD AND BRIDGE CONSTRUCTION:
ASSEMBLY	100 PSF	SECTION 455 AND ALL REFERENCED SECTIONS

170 MPH 129.4 MPH

PROVIDED BY HUMISTON & MOORE ENGINEERS (02/29/24)

100+ YEAR STORM SURGE: +9' I OADING: 900-380 LBS/FT (SURFACE), 770-340 LBS/FT (SEAFLOOR)

SEE ARCHITECTURAL. PLUMBING. & ELECTRICAL DRAWINGS FOR OTHER

SEE ARCHITES TORAL, FLUMING'S & ELECTIONAL DRAWINGS FOR C PERTINENT INFORMATION RELATED TO STRUCTURAL WORK AND COORDINATE AS REQUIRED. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ALL OTHER DRAWINGS WITHIN THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, AND THE SITE BEFORE BEGINNING WORK.

4. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE IF MATERIALS, QUANTITIES, STRENGT IN OK SIZES INDICATED BY THE DRAWINGS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.

A. DEVIATIONS FROM CONTRACT DOCUMENTS.

E. COORDINATION OF THE WORK OF ALL TRADES.

C. FABRICATION PROCESS INFORMATION.

5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FOLLOWING ITEMS THAT WILL NOT BE REVIEWED BY THE OWNER. ARCHITECT OR ENGINEER:

B. DIMENSIONS, ELEVATIONS AND CONDITIONS TO BE CONFIRMED AND CORRELATED AT THE SITE.

D. MEANS, METHODS, TECHNIQUES, PROCEDURES OF CONSTRUCTION AND CONSTRUCTION SAFETY.

ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER OR THE EOR AND SUBMITTED TO THE COR FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL SUCH CHANGES SHALL

BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE PARTY MAKING THE CHANGE TO REPLACE OR REPAIR THE CONDITION AS DIRECTED BY THE

THE INFORMATION SHOWN ON THE ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DOCUMENTS IS BASED ON ASSUMPTIONS OF THE EXISTING BUILDING CONSTRUCTION ORGINAL CONSTRUCTION DOCUMENTS WERE NOT AVAILABLE FOR THE PREPARATION OF THESE DOCUMENTS. THE CONTRACTOR IS TO NOTIFY THE EOR IF CONDITIONS DIFFERING FROM THOSE STATED ARE UNCOVERED IN THE DEMOLITION PROCESS.

CONTRACTOR IS RESPONSIBLE TO UNCOVER AND VISUALLY FIELD VERIFY

THE EXISTING CONSTRUCTION PRIOR TO THE START OF ANY WORK AFFECTING THE EXISTING STRUCTURE. CONTRACTOR IS TO REPORT ANY CHANGES OR DISCREPANCIES FROM THOSE SHOWN TO THE EOR.

CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. ALL EQUIPMENT SUPPORT DESIGN SHALL BE PERFORMED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.

±0.0 (OPEN) PER ASCE 7-22

EXTREMELY AGGRESSIVE

B. FDOT STRUCTURES DESIGN GUIDELINES: SECTION 3.5 AND ALL REFERENCED SECTIONS THE GENERAL CONTRACTOR AND THE FOUNDATION CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SURVEY AND THE GEOTECHNICAL REPORT BEFORE STARTING CONSTRUCTION.

- NOTIFY THE A/E AND OWNER'S REPRESENTATIVE OF ANY UNUSUAL SOIL CONDITION THAT ARE IN VARIANCE WITH TEST BORINGS, SUCH AS WHEN A DIFFERENT BEARING MATERIAL IS EVIDENT AND THERE IS A QUESTION OF THE BEARING CAPACITY.
- PROVIDE PILES IN ACCORDANCE WITH SOILS REPORT PREPARED BY NOVA REGINEERING AND ENVIRONMENTAL, LLC AND DESIGNATED REPORT # 10106-2022029 DATED 10/18/23. THE SOILS REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS FOR THE PROJECT.
- PRECAST CONCRETE PILES SHALL BE MANUFACTURED WITH A MIX PRECAST CONCRETE PILES SHALL BE MANUFACTURED WITH A MIX DESIGNED TO A FC OF 6000 PSI AT DRIVING. CONCRETE SHALL ATTAIN A MINIMUM FC OF 3000 PSI BEFORE STRANDS ARE RELEASED. THE USE OF HIGH EARLY CEMENT OR ADDITIVES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND EVALUATION PRIOR TO FABRICATION. STRANDS SHALL COMPLY WITH ASTM A416. ALL PILES SHALL BE DRIVEN OR JETTED. TO A CONCRETE PILE TIP LEVATION TO MEET GEOTECHNICAL REPORT RECOMMENDATIONS
- 6. TOTAL PILE LENGTHS AT: A. EAST (BEACH) END OF PIER WILL BE APPROXIMATELY 70± LONG B. WEST END OF PIER WILL BE APPROXIMATELY 100± LONG
- 7. ULTIMATE SOIL CAPACITIES OF 18"X18" PILES PER GEOTECHNICAL REPORT
- ULTIMATE AXIAL COMPRESSION CAPACITY EAST (BEACH) END OF PIER = 300K WEST END OF PIER = 650K ULTIMATE AXIAL TENSION CAPACITY в
- EAST (BEACH) END OF PIER = 160K WEST END OF PIER = 190K
- ULTIMATE PRECAST PRESTRESSED PILE DESIGN CAPACITIES A. REQUIRED AXIAL CAPACITY = 110K + DEAD LOAD OF THE PILE B. REQUIRED MOMENT CAPACITY = 3000K-IN REQUIRED SHEAR CAPACITY = 35K
- C. ALCONTECT ON A CONTEXT ON THE PILING WHEN IN PLACE. THE CRITERIA AS SET FORTH IN FOOT SHALL BE USED TO ESTABLISH ACCEPTABILITY OF TESTED PILES. LOAD TESTING APPARATUS AND PROCEDURE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE BEGINNING OF TESTING. TEN PRODUCTION PILES SHALL BE DRIVEN AND TESTED AT THE FOLLOWING BENTS (ONE PILE PER BENT): 510.1520.25.35.40.500, AND 55. VERIFICATION THAT THE LOAD TEST REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY AN INDEPENDENT GEOTECHNICAL CONSULTANT EMPLOYED BY THE OWNER AND APPROVED BY THE FORMERE BY THE ENGINEER
- AN AS-BUILT SURVEY OF PILE LOCATIONS SHALL BE PERFORMED BY A LAND SURVEYOR REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. PILES SHALL BE LOCATED ON THE AS-BUILT DRAWINGS HORIZONTALLY AND VERTICALLY REVOLT THE PILE CENTER-LINES. SUBMIT AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CASTING GRADE BEAMS AND/OR PILE CAPS.
- PILES TO BE FURNISHED TO THEIR TOTAL PRODUCTION LENGTH. PLANNED SPLICES REQUIRE PRIOR APPROVAL FROM THE ENGINEER. CONTRACTOR SHALL KEEP A PILE DRIVING LOG ON THE SITE AT ALL TIMES
- CONTRACTOR SHALL REEP A PILE DRIVING LOG ON THE SITE AT ALL TIME, WHICH SHALL INCLUDE THE FOLLOWING INFORMATION: DATE, TIME, WEATHER CONDITIONS, EQUIPMENT USED, PILE LOCATION DESIGNATION, BLOWS PER FOOT OVER ENTIRE DRIVING SEQUENCE. TOTAL LENGTH OF PILE (AFTER DRIVING AND CUT-OFF, IF CUT-OFF ALLOWED), AMOUNT OF JETTING OR PUNCHING (IF REQUESTED AND APPROVED), UNUSUAL PILE BEHAVIOR, DAMAGE AND RE-DRIVING. THIS LOG SHALL BE AVAILABLE TO THE ENGINEER OR OWNERS REPRESENTATIVE AT ANY TIME DURING THE JOB. UPDATED COPIES OF LOG PAGES SHALL BE PROVIDED TO THE ENGINEER AT LEAST WEEKLY THROUGHOUT THE PROJECT. IF A VIBRATORY HAMMER OR JETTING EQUIPMENT IS USED TO INSTALL PLINGS, THE TIME NEEDED TO HAMMER AND/OR JET EACH PILING SHALL BE RECORDED

PRECAST CONCRETE:

- CODES AND STANDARDS: ALL PRECAST CONCRETE WORK, DETAILING, FABRICATION AND ERECTION SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS ACI 318 - BUILDING CODE REQUIREMENT FOR STRUCTURAL CONC.
- ACI 318 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONC. ACI 301 SPECIFICATION OF STRUCTURAL CONCRETE. PCI MINL 116 MANUAL FOR QUALITY CONTROL. PCI CODE OF STANDARD PRECS FOR ROAD AND BRIDGE CONSTRUCTION. SECTION 455 AND ALL REFERENCED SECTIONS (UN A). PDOT STRUCTURES DESIGN GUIDELLINES. SECTION 35 AND ALL REFERENCED SECTIONS (UN A).

CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE PRECAST PILING: CLASS V (SPECIAL) fr = 6 000PSI

THE PRECAST CONCRETE MANUFACTURING PLANT SHALL BE CERTIFIED BY THE PRESTRESSED CONCRETE INSTITUTE, PLANT CERTIFICATION PROGRAM, PRIOR TO THE START OF PRODUCTION.

- MATERIALS PORTLAND CEMENT: ASTM C150.
- AGGREGATES: ASTM C33. PRESTRESSING STRANDS: ASTM 416, GRADE 270, 7 WIRE UNCOATED.
- GROUT: ASTM 476 CONNECTORS: STAINLESS STEEL ASTM A666 TYPE 304
- CONNECTOR'S STAILLESS STEEL ASTM ABOB TYPE 304 REINFORCING BARS: ASTM 161 Fyr = 60 KSL WELD BABLE REINFORCING BARS: ASTM 706, Fy = 60 KSL WELD WIRE FARIC: ASTM A&2 ADA 2166, Fyr = 65 KSL (PLAIN). AIR-ENTRAINING AGENT: ASTM C260 CORROSION UNHIBITOR REQUIRED: FOOT 924-2.2 (ASTM G109)

SUBMITTALS

- SUBMIT SHOP DRAWINGS FOR REVIEW THAT INCLUDES BUT NOT LIMITED TO
- TED TO: ERECTION PLANS, ELEVATIONS AND PIECE SHEETS. CONNECTION DETAILS AND HARDWARE ATTACHMENTS. DESIGN LOADS. SUBMIT CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL
- ENGINEER REGISTERED IN THE STATE OF THE PROJECT. PROVIDE MANUFACTURER STANDARD PUBLISHED LITERATURE AND C.
- LOAD TABLES. TEST REPORTS
- T REPORTS: CERTIFICATES FOR MATERIAL COMPLIANCE WITH
- b

CONNECTORS:

- CELEVICATION
 SPECIFICATION
 SPECIFICATION
 CONCRETE DESIGN MIX
 COMPRESSIVE STRENGTH TEST RESULTS.
 OOFABRICATION OR ERECTION UNTIL ALL SUBMITTALS HAVE BEEN
 APPROVED BY STRUCTURAL ENGINEER.
- ALL CONNECTIONS SHALL BE DESIGNED SO AS NOT TO BE EXPOSED TO WEATHER NOR TO VIEW FROM THE EXTERIOR.
- TOLERANCE: A. TO CONFORM WITH THE PRESTRESSED CONCRETE INSTITUTE
- TO CONFORM WITH THE PRESTRESSED CONCRETE INSTITUTE SPECIFICATIONS, LEINGTH AND WIDTH OF UNIT: a. UNIT 10 FEET AND LESS. +4-1/8 INCH. b. UNIT 10 FEET TO 20 FEET: +-/ 3/8 INCH. UNIT 10 FEET TO 20 FEET: +-/ 3/8 INCH. THICKNESS OF ENIT: A. 10 FEET: +-/ 3/8 INCH. SOURPENESS OF UNIT: +-/ 1/8 INCH FEET 6 FEET, MEASURED ALL DIAGONAI.
- UIAGONAL. INSERTS: +/-3/8 INCH CAMBER OR SWEEP: +/- 1/8 INCH PER 10 FEET, UPTO 1/2 INCH MAXIMUM. DIFFERENTIAL BETWEEN TWO ADJACENT UNITS TO BE NO MORE THAN ONE-HALF THE MAXIMUM ALLOWED.

MISCELLANEOUS:

- SELLANEOUS: THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, AS REQUIRED, DURING THE ERECTION OF PRECAST UNITS. COORDINATE WITH OTHER TRADES FOR ALL EMBEDDED ASSCESSORIES.
- STRUCTURAL DELEGATED DESIGN AND DEFERRED SUBMITTALS:
- STRUCTURAL DELEGATED DESIGN AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE TO THE OVERALL STRUCTURAL SYSTEM DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
- STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGE TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS INCLUDING CONNECTIONS AND ANCHORAGE TO THE BUILDING STRUCTURE. THEY SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

- 5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE

MECH'L, ELEC'L, PLUMBING, FIRE PROTECTION & OTHER SUSPENDED ITEM:

- CONVENTIONS DOFFORTING TO THE TRUCTURAL ELEMENTS. WELDING TO ON OT DAMAGE OR DEFORM THE STRUCTURAL ELEMENTS. WELDING TO OR ORILLING HOLES IN STRUCTURAL MEMBERS IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO
- TRAPEZING IS PERMITTED FOR MULTIPLE PIPE OR CONDUIT RUNS. LOADS FROM TRAPEZE HANGERS SHALL BE AS PREVIOUSLY NOTED FOR SUPPORTS FROM JOIST ELEMENTS. TRAPEZING IS NOT PERMITTED FOR PIPING AND/OR CONDUIT GREATER THAN 3" IN DIAMETER.
- THE LOADS UNIFORMLY ACROSS STRUCTURAL MEN
- CONTRACTORS INSTALLING MEP & FP SYSTEMS SHALL COORDINATE ROUTING PRIOR TO INSTALLATION SO AS TO DISTRIBUTE THE LOADING TO THE STRUCTURE UNIFORMLY, DO NOT HANG ALL SYSTEMS FROM THE SAME FRAMING MEMBER.
- ALL HANGERS, WIRES, RODS ETC, FOR SUSPENDED ITEMS SUCH AS PIPING. ALL FINANCES, WIRES, NODE ELC TON SUPERIOLO FLEWS SUPERIOLO CELLINSS, TECHNOLOGY, ETC. SHALL BE INSTALLED FROM MAN STRUCTURAL MEMBERS, HANGENS ATTACHED TO METAL ROOF DECK, JOIST BRIE OR FROM OTHER NON-STRUCTURAL SYSTEMS IS STRUCTLY PROHIB ALL THE ABOVE SHALL BE CORROSION RESISTANT

#5 #6 #7 6 #8 #9 #10 #11 #14 #18

- CONNECTIONS TO SUPPORTING STRUCTURAL MEMBERS. SHALL BE LOCATE AND DISTRIBUTE HANGING LOADS AS REQUIRED SO AS TO NOT EXCEED THE LOAD CARRYING CAPACITY OF THE MEMBER.
- - - CONCR
- #10 #11 #14 . #18 2
- #5 3 #6 4

 - REBAR SIZE T

- PRECA BEAMS

- BUT ARE NOT LIMITED TO PRECAST PILES TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURE TO
- EOR WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- 4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.

- REBAR SIZE
- THE APPROPRIATE INSTALLING CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOADS IMPOSED BY THE INSTALLED ITEMS, STAGGER HANGERS AND SUPPORTS FROM THE STRUCTURE SO AS TO DISTRIBUTE

CAST IN PLACE CONCRETE:

- CODES AND STANDARDS: ALL CAST-IN-PLACE CONCRETE WORK, DETAILING, FABRICATION AND PLACING OF REBARS, TESTIONS, SAMPLING, AND CONCRETE SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS OF: A. CI 318 DIFILIS AND DETAILING OF CONCRETE REINFORCEMENT C. ACI 319. SPECIFICATION OF STRUCTURAL CONCRETE D. ACI 117. SPECIFICATION OF STRUCTURAL CONCRETE D. ACI 117. SPECIFICATION OF STRUCTURAL CONCRETE D. ACI 117. SPECIFICATION FOR TOLERANCES FOR CONCRETE D. ACI 117. SPECIFICATION FOR TOLERANCES FOR CONCRETE
 - ACI 11: SPECIFICA ILON FOR TOLERANCES FOR CONCRET CONSTRUCTION AND MATERIALS. ACI 305 SPECIFICATION OF HOT WEATHER CONCRETING. ACI 306 SPECIFICATION OF HOT WEATHER CONCRETING FIELD REFERENCE MANUAL MUST BE PRESENT ON SITE. CONCRETE REINFORCING STELE INSTITUTE (CRSI).

 - FDOT STANDARD SPECS FOR ROAD AND BRIDGE CONSTRUCTION FDOT STRUCTURES DESIGN GUIDELINES
- CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: A. CIP BEAMS/BENTS: CLASS IV, fc = 5,500PSI
- 3. MATERIALS

 - ENIALS: PORTLAND CEMENT: ASTM C150. AGGREGATES: ASTM C33. AIR-ENTRAINING: ASTM C260. REINFORCING BARS: ASTM 615 Fy = 60 KSI. WEI DABLE REINFORCING BARS: ASTM 706, EV = 60 KSL
 - VIELDALE FEITURING LINE STATUS CORROSION INHIBITOR REQUIRED: EDOT 924-2 2 (ASTM G109)

В.

C.

C.

6. JOINTS:

C.

D.

7 CURING

2.

- SUBMITTALS:
 SUBMITSHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTIONS PLANS, POUR SEQUENCE (IF APPLICABLE), CONSTRUCTION JOINTS AND/OR EXPANSION JOINTS, ELEVATIONS AND REBAR BENDING SCHEDULES. SUBMIT A MIX DESIGN FOR EACH MIX USAGE REQUIRED ON THE

 - PROJECT: SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS. SUBMIT REPORTS FOR ALL REQUIRED TESTING AND INSPECTIONS. NO CONCRETE SHALL BE PLACED UNTIL ALL SUBMITTALS HAVE BEEN PROVED BY EOR
- 5. SPLICES: A. REINFORCING BARS LAP SPLICE LENGTHS SHALL CONFORM WITH THE MINIMUM LAP SPLICE TABLE. MINIMUM LAP SPLICE I ABLE. MICHANICAL BAR SPLICES DEVICES THAT PROVIDE A FULL TENSION SPLICE WITH A CAPACITY OF 125 PERCENT OF THE BAR YIELD STRENGTH MAY BE USED. PROVIDE CLASS B TENSION LAP SPLICES.
 - CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY STRUCTURAL ENGINEER. PROPOSED CONSTRUCTION JOINT LOCATIONS TO BE SUBMITTED TO EOR FOR REVIEW. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATER PS UNO
 - STOPS UNO. NO HORIZONTAL CONSTRUCTION JOINT WILL BE PERMITTED IN BEAMS UNLESS SPECIFICALLY SHOWN IN THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. IN BEAM CONSTRUCTION, PROVIDE KEYED CONSTRUCTION JOINT AT
 - TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING METHOD TO BE DELAYED OVERNIGHT. CURING MATERIALS IN ACCORDANCE WITH FDOT 925.

8 MISCELLANEOUS:

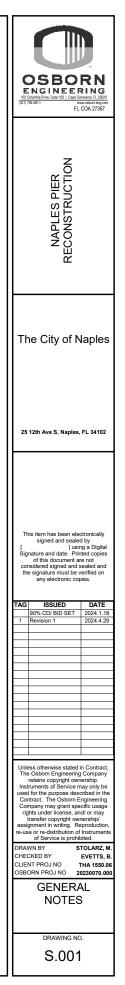
- HELANEOUS: PROVIDE CORROSION RESISTANT ACCESSORIES SUCH AS GRAY PLASTIC CHAIRS IN ALL EXPOSED CONCRETE CONSTRUCTION. PRECAST CONCRETE CUBES OR SAND PLATE CHAIRS SHALL BE USED FOR THE SUPPORT OF THE REINFORCING ON GRADE. CONCRETE BLOCK OR CLAY MASORRY BRICK ARE NOT PERMITTED.
- 34" CHAMFER FOR EXPOSED EDGES OF CONCRETE UNO. COORDINATE WITH ALL TRADES INVOLVED FOR THE REQUIRED SIZE AND LOCATION OF ALL ANCHORS, SLEEVES, PADS, DEPRESSIONS, DECRIVES, AND ENDER
- OPENINGS AND EMBEDS. BOND BREAKER MATERIAL SHALL BE 30 POUND FELT PAPER. ALL FORMWORK AND BRACING SHALL BE REMOVED INCLUDIN INTERNAL CORRODIBLE FASTENERS. DING ANY

CONCRETE REBAR COVER	2
EXPOSURE CONDITION	COVER
AST PILES	3"
S/BENTS	3"

CONCRETE REBAR LAP SPLICE (CLASS B) - Fc = 5500 PSI

3/4" COVER		1 1/2" (1 1/2" COVER		OVER	3" CC	OVER
ГОР	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
16"	16"	16"	16"	16"	16"	16"	16"
22"	17"	18"	16"	18"	16"	18"	16"
32"	25"	22"	17"	22"	17"	22"	17"
44"	34"	26"	20"	26"	20"	26"	20"
70"	54"	43"	33"	38"	29"	38"	29"
87"	67"	54"	42"	44"	34"	44"	34"
105"	81"	67"	52"	54"	42"	49"	38"
126"	97"	82"	63"	66"	51"	55"	43"
147"	114"	97"	75"	80"	61"	61"	47"
194"	149"	132"	102"	109"	84"	81"	62"
292"	225"	209"	161"	176"	135"	133"	103"

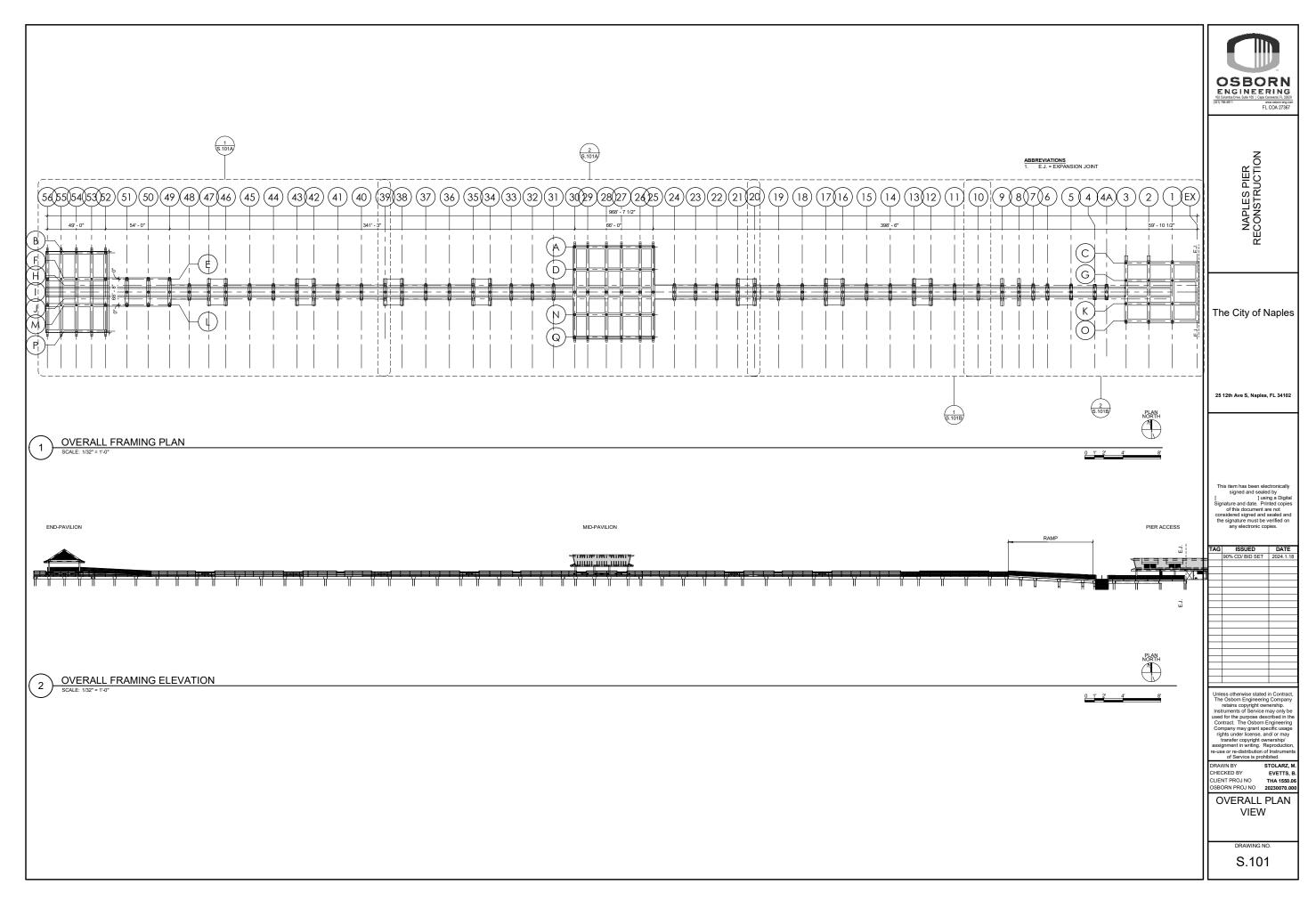
3/4" (OVER	1 1/2"	COVER	2" C	OVER	3" C	OVER
TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
12"	12"	12"	12"	12"	12"	12"	12"
17"	13"	14"	12"	14"	12"	14"	12"
25"	19"	17"	13"	17"	13"	17"	13"
34"	26"	20"	16"	20"	16"	20"	16"
54"	42"	33"	26"	29"	23"	29"	23"
67"	51"	42"	32"	34"	26"	34"	26"
81"	62"	52"	40"	42"	32"	38"	29"
97"	75"	63"	49"	51"	39"	43"	33"
114"	87"	75"	58"	61"	47"	47"	36"
149"	115"	102"	78"	84"	65"	62"	48"
225"	173"	161"	124"	135"	104"	103"	79"

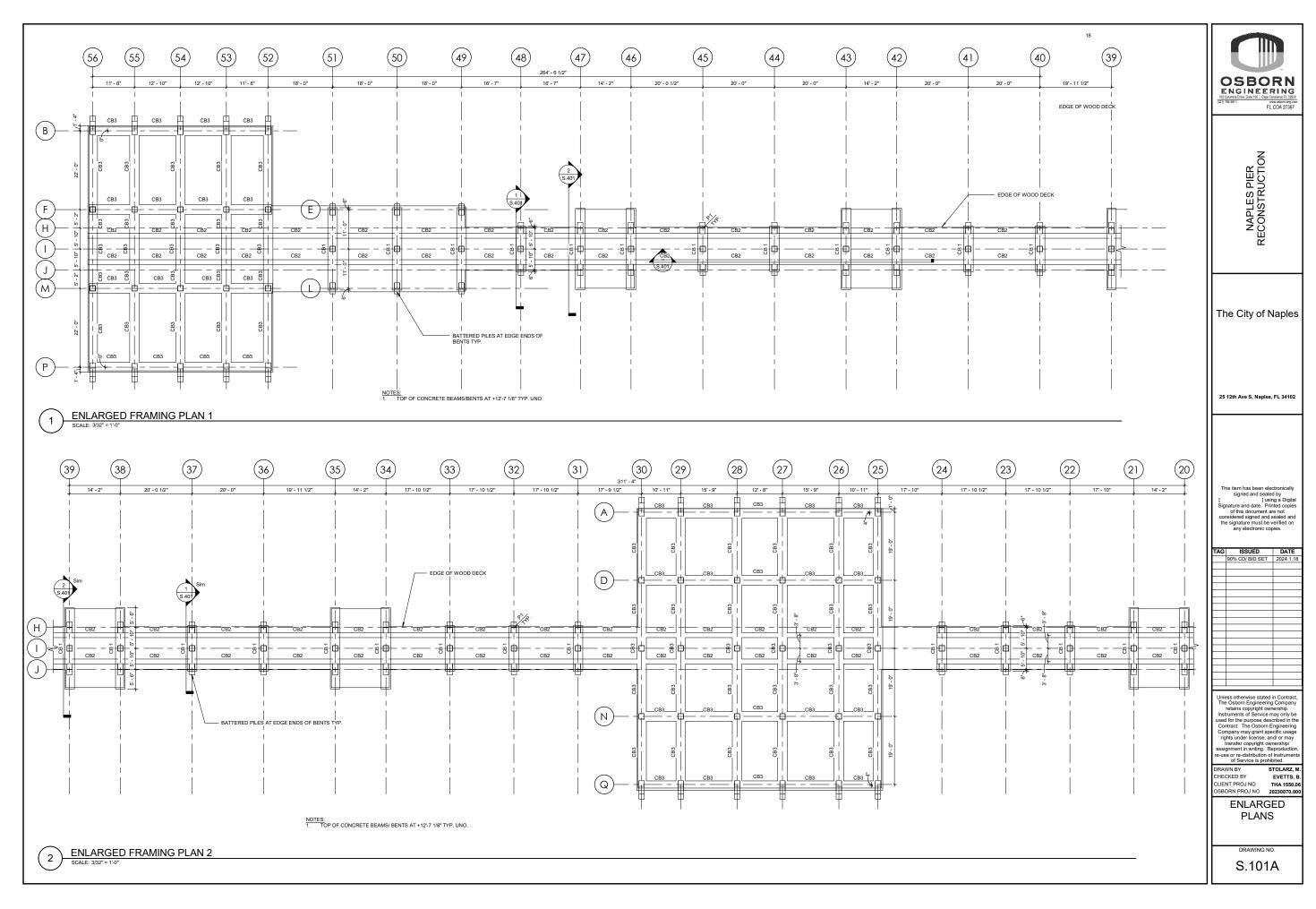


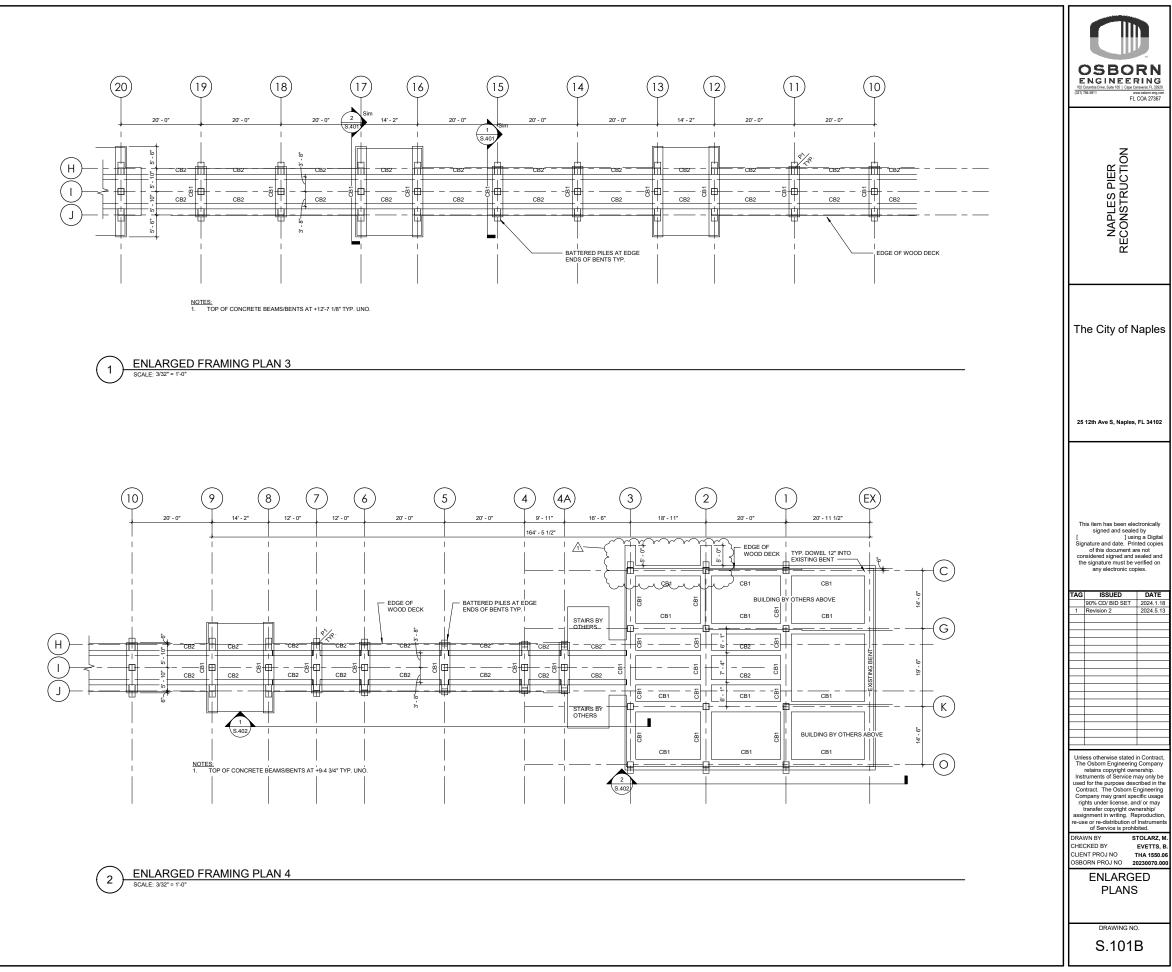
	SPECIAL INSPECTION					
	TYPE	REQUIRED	CONTINUOUS	PERIODIC		т
704.3 -					2	VERIFICATION OF PROPORTIO
1	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	No	-	-	3	OR PREBLENDED MORTAR OF VERIFICATION OF SLUMP
2	INSPECTION OF HIGH-STRENGTH BOLTING - BEARING	No			4	PROPORTION OF SITE-PREPA
-	CONNECTIONS.				5	PLACEMENT OF MASONRY UN
3	INSPECTION OF HIGH-STRENGTH BOLTING: - SLIP CRITICAL	No	-	-		MORTAR JOINT
4	CONNECTIONS. MATERIAL VERIFICATION OF STRUCTURAL STEEL	No	· .		6	PLACEMENT OF REINFORCEM
4	COLD-FORMED STEEL DECK	NO		-	7	GROUT SPACE PRIOR TO GRO GROUT PLACEMENT
5	MATERIAL VERIFICATION OF WELD FILLER MATERIALS.	No	-	-	9	SIZE AND LOCATION OF STRU
6	COMPLETE AND PARTIAL JOINT PENETRATION GROOVE	No	•	-	10	TYPE, SIZE AND LOCATION OF
7	WELDS. MULTI-PASS FILLET WELDS.	No				STRUCTUAL MEMBERS
8	SINGLE-PASS FILLET WELDS. SINGLE-PASS FILLET WELDS > 5/16".	No			11	TYPE, SIZE AND GRADE OF RE
9	PLUG AND SLOT WELDS	No		-	12	BOLTS
10	SINGLE-PASS FILLET WELDS < 5/16".	No		-	12	WELDING OF REINFORCING BA
11	FLOOR AND ROOF DECK WELDS.	No		-	13	PREPARATION OF GROUT AND
12	VERIFICATION OF WELDABILITY OF REINFORCING STEEL	No	-	-		TESTING
	OTHER THAN ASTM A706.				1704.6	WOOD
13	WELDING OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES	No	-	-	1	FABRICATED LOAD BEARING A (TRUSSES/COMPOSITE i-JOIST PREMISES OF THE FABRICATO
14	WELDING OF SHEAR REINFORCMENT	No	-	-	2	HIGH-LOAD DIAPHRAGMS
15	INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.	No	-	-	3	METAL-PLATE-CONNECTED W GREATER THAN 60 FEET
16	COLDFORM STEEL TRUSSES SPANNING GREATER THAN 60	No	-	-	1704.7 -	
04.4 -	CONCRETE				1	VERIFY MATERIALS BELOW SH
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	Yes	•	x	2	ADEQUATE TO ACHIEVE THE I VERIFY EXCAVATIONS ARE EX HAVE REACHED PROPER MAT
2	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	No	•	-	3	PERFORM CLASSIFICATION AN MATERIALS.
3	INSPECTION OF CAST-IN-PLACE ANCHOR BOLTS.	Yes	X	-	4	VERIFY USE OF PROPER MATE
4	INSPECTION OF POST INSTALLED ANCHORS	Yes	-	X		THICKNESSES DURING PLACE COMPACTED FILL.
5	VERIFY USE OF REQUIRED DESIGN MIX. SAMPLING SPECIMEN FOR TESTING	Yes Yes	- X	X	5	PRIOR TO PLACEMENT OF CO
7	VERIFY CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Yes	x	-		SUBGRADE AND VERIFY THAT PROPERLY.
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE	Yes		x	1704.8 -	DRIVEN DEEP FOUNDATION E
9	AND TECHNIQUES. PRESTRESSED CONCRETE - APPLICATION OF PRESTRESSING FREETOND OF DUTING CONTENT FOR THE APPLICATION OF THE APPL	Yes	-	x	1	VERIFY ELEMENT MATERIALS WITH THE REQUIREMENTS. DETERMINE CAPACITIES OF T
10	FORCES AND GROUTING BONDED TENDONS PRECAST CONCRETE - ERECTION OF MEMBERS.	Yes		x	2	ADDITIONAL LOAD TESTS, AS
11	POST TENSIONED CONCRETE - VERIFY IN-SITU CONCRETE	Yes		x	3	INSPECT DRIVING OPERATION
	STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORESS AND FORMS FROM BEAMS AND STRUCTURAL SLAB.	163		^	4	ACCURATE RECORDS FOR EA VERIFY PLACEMENT LOCATIO TYPE AND SIZE OF HAMMER, F
12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Yes	· ·	x		FOOT OF PENETRATION, DETE PENETRATIONS TO ACHIEVE I AND BUTT ELEVATIONS AND D
704.5.1	- MASONRY LEVEL 1					FOUNDATION ELEMENT.
1	VERIFICATION OF fm.	No	-	-	5	FOR STEEL ELEMENTS, PERF
2	VERIFICATION OF SLUMP FLOW	No	-	-		INSPECTIONS IN ACCORDANC
3	PROPORTION OF SITE-PREPARED MORTAR	No	-	-	6	FOR CONCRETE ELEMENTS A ELEMENTS, PERFORM TESTS
4	CONSTRUCTION OF MORTAR JOINTS	No	-	-		INSPECTIONS IN ACCORDANC
6	LOCATION OF REINFORCEMENT SIZE AND LOCATION OF STRUCTURAL ELEMENTS	No		-	7	FOR SPECIALTY ELEMENTS, P
7	TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO STRUCTURAL MEMBERS	No		-		INSPECTIONS AS DETERMINE PROFESSIONAL IN RESPONSI
8	TYPE, SIZE AND GRADE OF REINFORCEMENT AND ANCHOR	No	-	-	1704.9 -	CAST-IN-PLACE DEEP FOUND
	BOLTS				1	INSPECT DRILLING OPERATIO AND ACCURATE RECORDS FC
9	WELDING OF REINFORCING BARS	No	· ·	-	2	VERIFY PLACEMENT LOCATIO
10 11	COLD WEATHER CONSTRUCTION PRIOR TO GROUTING - CLEANING, REINFORCMENT PLACEMENT, GROUT PROPOTION AND MORTAR JOINTS	No No	· ·	-		ELEMENT DIAMETERS, BELL D LENGTHS, EMBEDMENT INTO ADEQUATE END-BEARING STR
12	GROUT PLACEMENT	No		-		CONCRETE OR GROUT VOLUM
13	PREPARATION OF GROUT AND MORTAR SPECIMEN FOR TESTING	No	-	-	3	FOR CONCRETE ELEMENTS, P SPECIAL INSPECTIONS IN ACC
704.5.3	- MASONRY LEVEL 2				OPEN-V	VEB STEEL JOIST AND GIRDER
1	VERIFICATION OF fm FOR EVERY 5000 SF	No		-		INSTALLATION OF OPEN-WEB

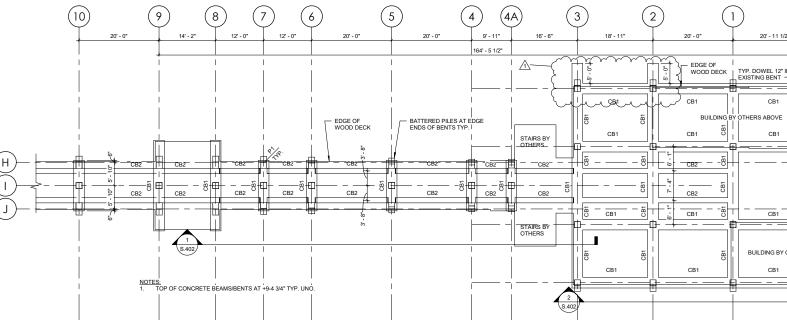
2 CHIPTICATION OF PROPORTIONS OF MATERIALS IN PREMIXED No - 3 VERIFICATION OF SILUMP No - - 3 VERIFICATION OF SILUMP No - - 4 PROPORTION OF SILEPREPARAED MORTAR No - - 5 PLACEMENT OF MASONRY UNIT AND CONSTRUCTION OF No - - 6 PLACEMENT OF REINFORCEMENT No - - 7 GROUT PLACEMENT No - - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - - 10 TIPE SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - - 11 TOTEL SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - - 12 VELDING OF REINFORCING BARS No - - - 13 COLD WEATHER CONSTRUCTION No - - - 748.5 WOTA - - - - 14 PREINFORONG BARING ASSEMELIES No - <th></th> <th>SPECIAL INSPECTION</th> <th></th> <th></th> <th></th>		SPECIAL INSPECTION			
OR PRESILENCED MORTAR OR GROUT No - 3 VERFICATION OF SULP. PREPARED MORTAR No - 6 PLACEMENT OF MISONERUMIT AND CONSTRUCTION OF No - 7 GROUT SPACE PRIOR TO GROUTING No - 8 PLACEMENT OF REINFORCEMENT No - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 10 TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 11 TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 12 INCLIAN MEMBERS No - - 13 COLD WEATHER CONSTRUCTION NAGONTAL MEMBERS No - 14 INPER, SIZE AND DEARING ASSEMBLIES No - - 13 COLD WEATHER CONSTRUCTION No - - 14 IRREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 15 CARLO WEATHER CONSTRUCTION No - - 16 FRAGRICATED LOAD BEARING ASSEMBLIES No - - <th></th> <th></th> <th></th> <th>CONTINUOUS</th> <th>PERIODIC</th>				CONTINUOUS	PERIODIC
4 PROPORTION OF SITE-PREPARED MORTAR No - 5 PLACEMENT OF MASONY UNIT ADD CONSTRUCTION OF MORTAR JOINT No - 6 PLACEMENT OF REINFORCEMENT No - 7 GROUT SPACE PRIOR TO GROUTING No - 8 GROUT PLACEMENT No - 10 TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 11 TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - 12 WELDING OF REINFORCING BARS No - 13 COLD WEATHER CONSTRUCTION NA - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 15 COLD WEATHER CONSTRUCTION No - 14 REPRARATION OF GROUT AND MORTAR SPECIMENT FOR No - 17 IFABRICATED LOAD BEARING ASSEMBLIES No - - 1 FRARICATED LOAD BEARING ASSEMBLIES No - - 1 FRARICATED LOAD BEARING ASSEMBLIES No - - 2			No	-	-
5 PLACEMENT OF MASCINEY UNIT AND CONSTRUCTION OF MORTAX JOINT No - 6 PLACEMENT OF REINFORCEMENT No - 7 GROUT PLACEMENT No - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 9 SIZE AND LOCATION OF MASONEY ANCHORAGE TO STRUCTUAL MEMBERS No - 10 TYPE, SIZE AND LOCATION OF MASONEY ANCHORAGE TO STRUCTUAL MEMBERS No - 11 TYPE, SIZE AND GRADE OF REINFORCMENT AND ANCHOR BOLTS No - 12 WELDING OF REINFORCING BARS No - 13 COLD WEATHER CONSTRUCTION No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR TESTING No - 15 FABRICATCRE LOAD BEARING ASSEMBLIES (TRUSSES) COMPOSITE LOISTS) CONDUCTED ON THE PREMISES OF THE FABRICATORS SHOP. No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR (TRUSSES) COMPOSITE LOISTS) CONDUCTED ON THE PREMISES OF THE FABRICATORS SHOP. No - 14 PRETAL-PLATE-CONNECTED WOOD TRUSSES SPANNING (REALTER THAN 80 FET No - 3 METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING (REALTER THAN 80 FET No - 14 VERIFY ELEMENT MATERIALS, DENSTITES, AND LIFT ANDRU				-	-
MORTAR JOINT O - 6 PLACEMENT OF REINFORCEMENT No - - 7 GROUT SPACE PRIOR TO GROUTING No - - 8 GROUT PLACEMENT No - - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - - 10 TYPE, SIZE AND LOCATION OF SRUCTURAL ELEMENTS No - - 11 TYPE, SIZE AND GRADE OF REINFORCIMENT AND ANCHORAGE TO No - - 12 WELDING OF REINFORCING BARS No - - - 12 COLD WELDING OF GROUT AND MORTAR SPECIMENT FOR No - - 13 COLD WELTHER CONSTRUCTION No - - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - - 15 FABRICATED LOAD BEARING ASSEMBLIES ITTRUSSES/ORMPOSITE LOOKS SPENDLING No - 1 FRARICATED LOAD DEARING ASSEMBLIES No - - - 1 FORTAF CATE ONU				-	-
7 CROUT SPACE PRIOR TO GROUTING No - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 10 TYPE, SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 11 TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - 12 TVPE, SIZE AND GRADE OF REINFORCMENT AND ANCHOR No - 13 COLD WEATHER CONSTRUCTION No - 14 PREDARGO F REINFORCING BARS No - 15 COLD WEATHER CONSTRUCTION No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 15 CABLO WEATHER CONSTRUCTION No - 16 FARRICATES DIAD BEARING ASSEMBLIES No - 17 FRAREICATORS SHOP. NO - 2 HICH-LOAD DIAPHRAGMS No - 2 INCEL PLATE-CONNECTED WOOD TRUSSES SPANNING No - 1 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE NO - 2 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE NO - 1 VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE NO - 2 VERIFY MATERIALS, BELOW SHALLOW FOUNDATION ARE NO - 3 <t< td=""><td>N</td><td>IORTAR JOINT</td><td></td><td>-</td><td>•</td></t<>	N	IORTAR JOINT		-	•
8 GROUT PLAGEMENT No - 9 SIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 10 TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - 11 TYPE, SIZE AND ECARDE OF REINFORCMENT AND ANCHOR No - 11 TYPE, SIZE AND ECARDE OF REINFORCMENT AND ANCHOR No - 12 WELDING OF REINFORCING BARS No - 13 COLD WEATHER CONSTRUCTION No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 14 PREPARATION OF GROUT AND MORTAR SPECIMENT FOR No - 15 FABRICATED LOAD BEARING ASSEMBLIES No - 16 THE FABRICATORS SHOP. NO - 27 HIGH-LOAD DIAPHRAGASS No - 30 METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING No - 1 VERITY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND No - 28 VERITY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND No - 30 MATERIALS SECOMPOSITE MATERIALS NO - 31 MATERIALS SECOMPOSITER MATERIALS NO <td< td=""><td></td><td></td><td></td><td>-</td><td>-</td></td<>				-	-
9 BIZE AND LOCATION OF STRUCTURAL ELEMENTS No - 10 TYPE SIZE AND LOCATION OF MASONRY ANCHORAGE TO No - 11 TYPE SIZE AND GRADE OF REINFORCMENT AND ANCHOR No - 12 TYPE SIZE AND GRADE OF REINFORCMENT AND ANCHOR No - 13 COLD WEATHER CONSTRUCTION No - 14 DREDAWEATHER CONSTRUCTION No - 15 COLD WEATHER CONSTRUCTION No - 16 TRESTING No - 17 FRARICATED LOAD BEARING ASSEMBLIES No - 18 FRARICATES OF THE FLAGRES No - 21 HIGH-LOAD DIAPPHRAGMS No - 21 INCEL PLATE-CONNECTED WOOD TRUSSES SPANNING No - 21 HOCH PLATE-CONNECTED WOOD TRUSSES SPANNING No - 22 HORINE TO ACHIEVE THE DESIGN BEARING CAPACITY. No - 23 MERTA-ROHED REPORTER MATERIALS. DECOM SHALLOW FOUNDATIONS ARE No 24 VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND No - 30 MERTA-ROHED AFCORMACTERIAL. No - 31 VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND No - 34				-	
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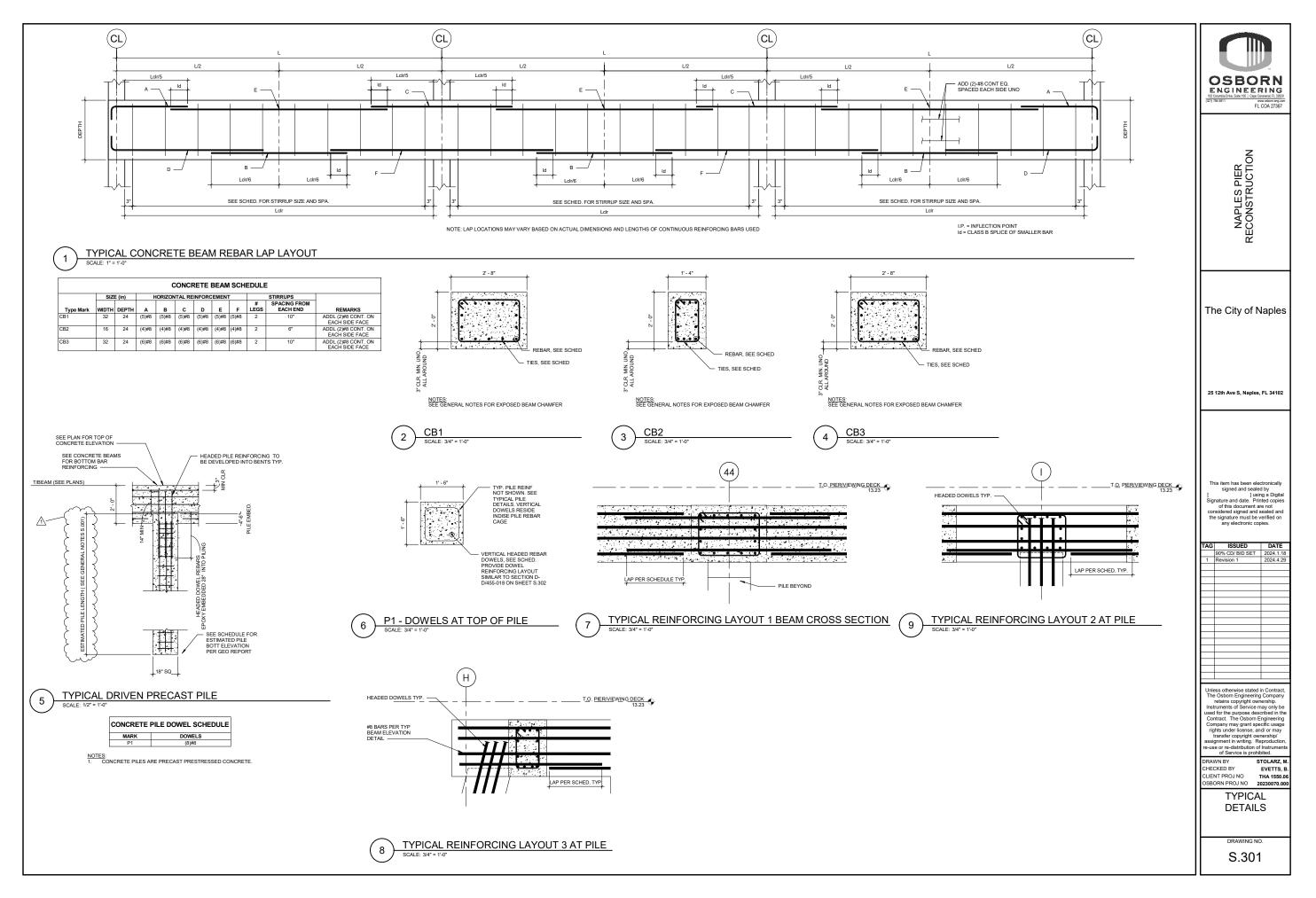


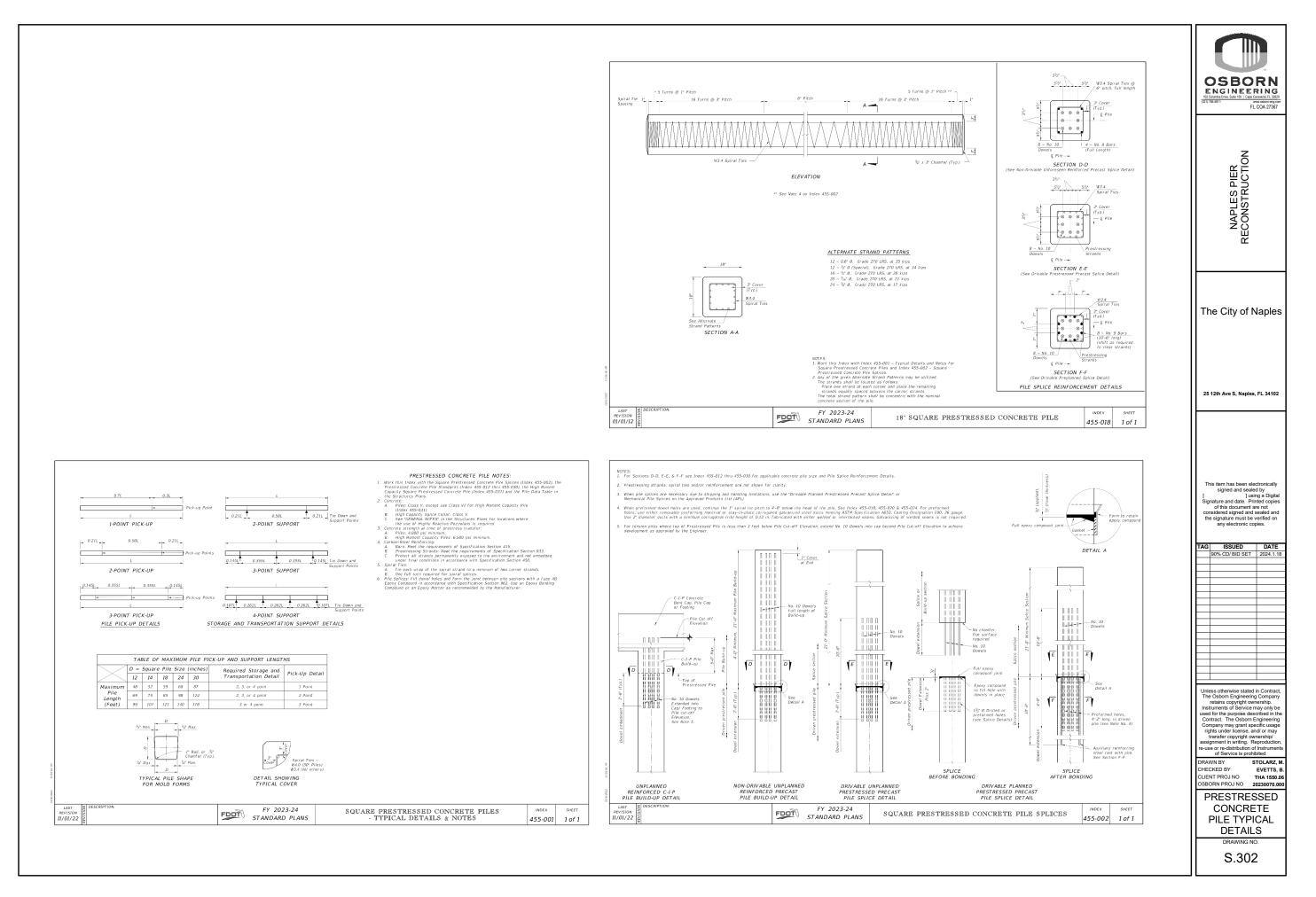


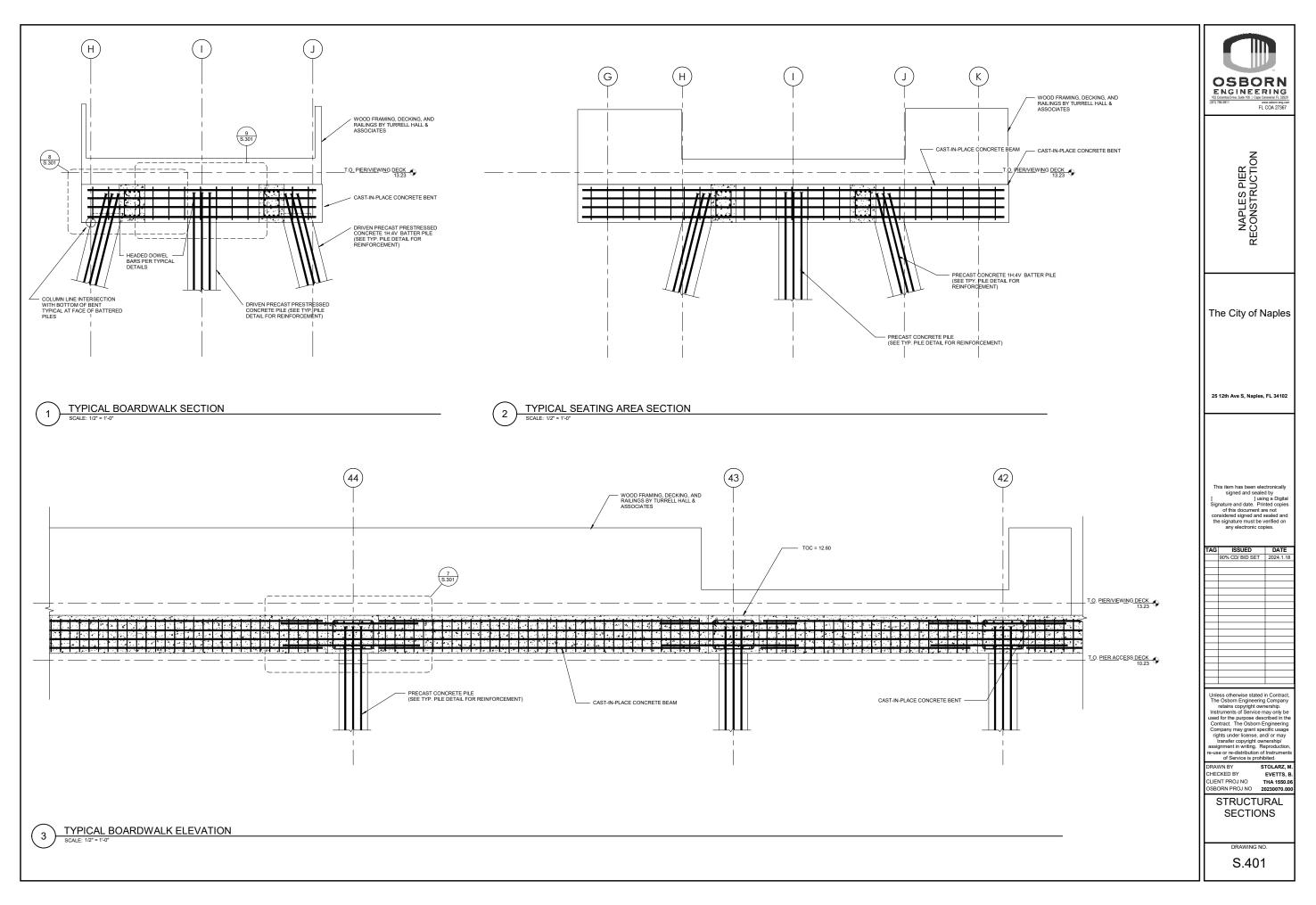


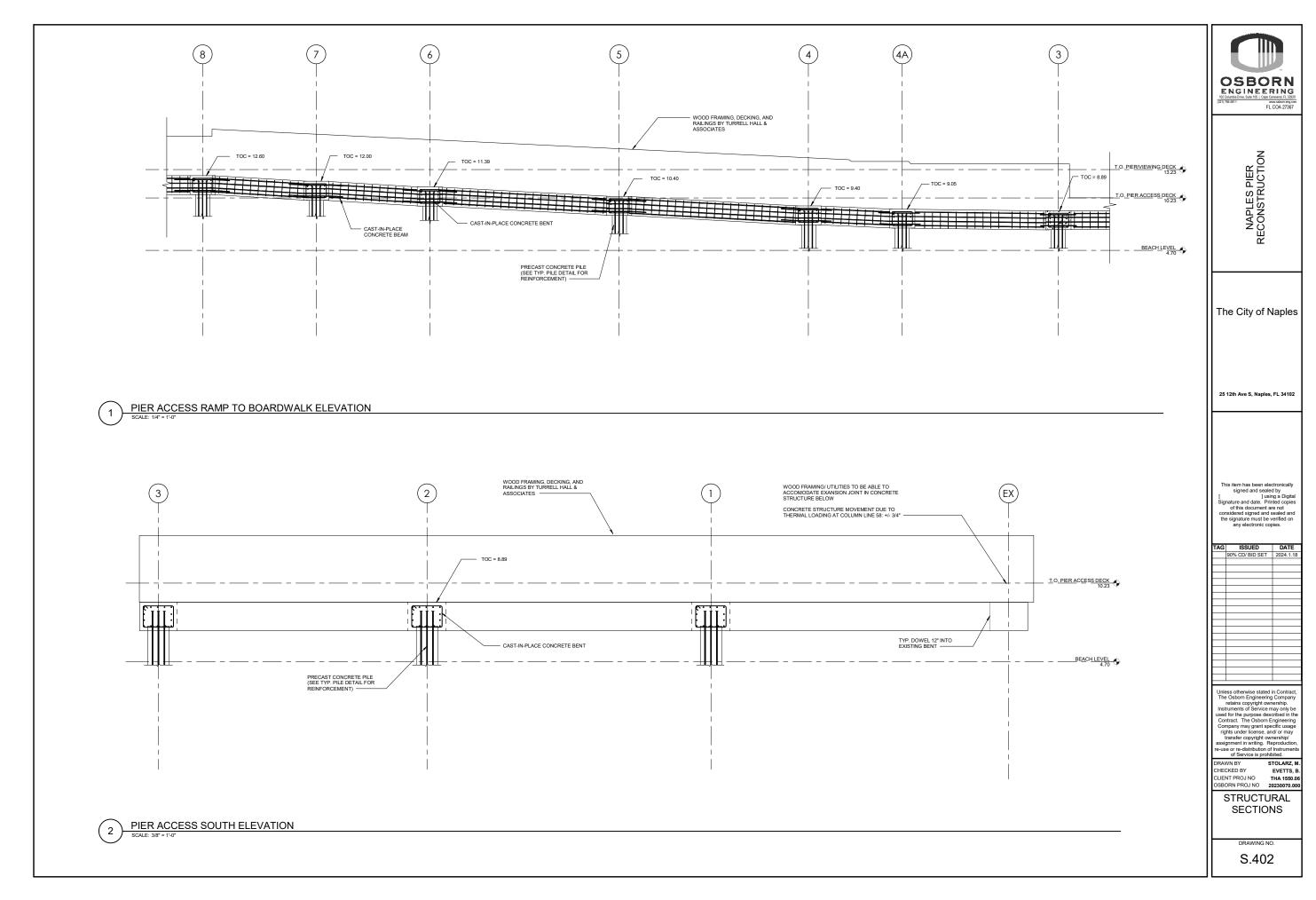


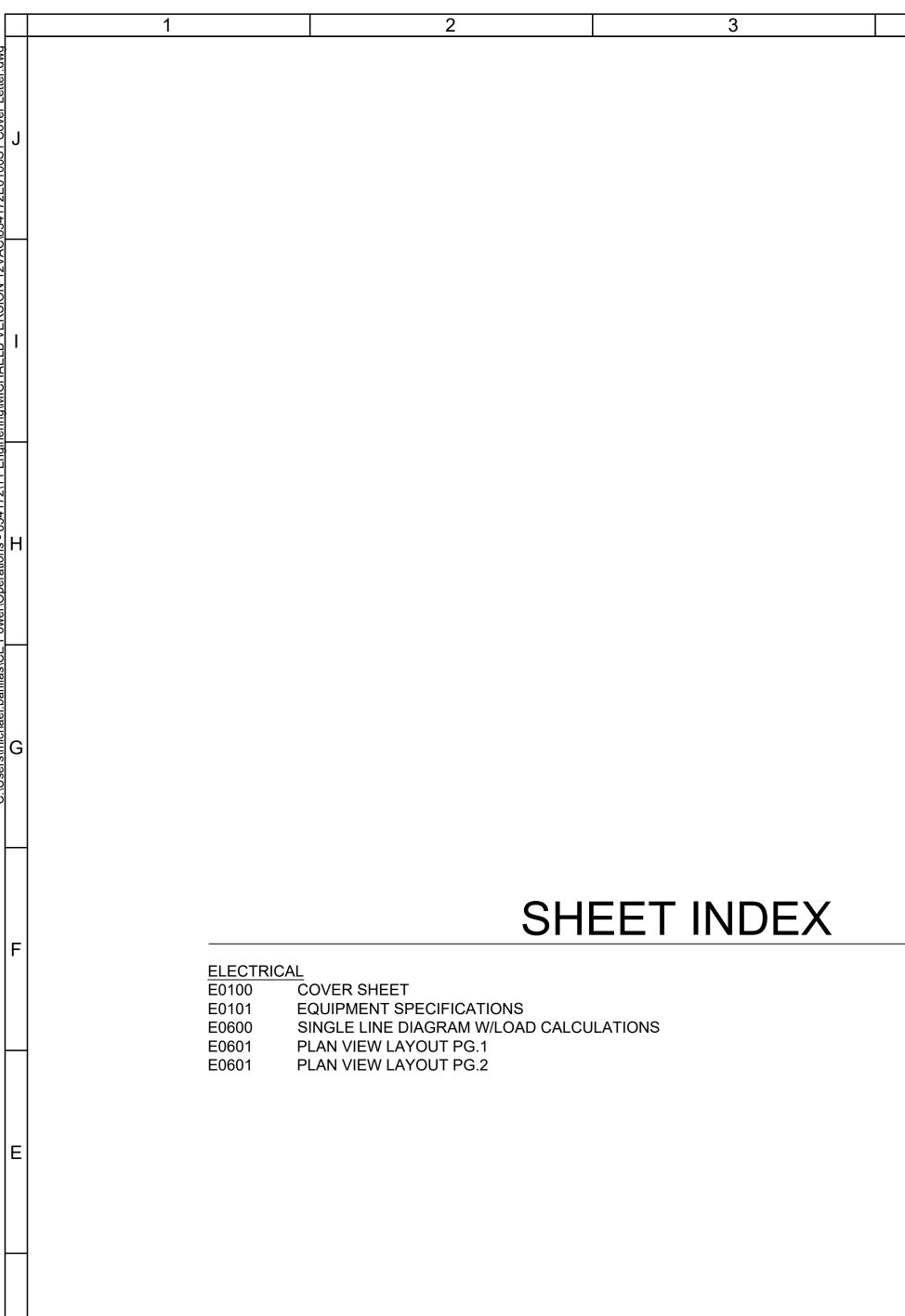






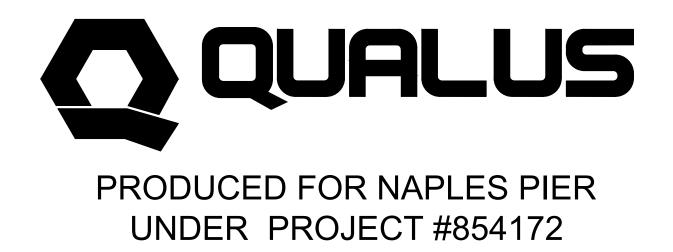








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DECK LIGHTING:

Volt Electrical Deck LedLight or Approved Equivalent

2

Volt Led Lamps: Bi Pin Series Turtle Safe Lamps. Deck Light -600Series.

Size: $3\frac{3}{8}$ " Diameter

·Count: 314 Unit.

·Input Voltage/Frecuency: 11-21 VAC/60Hz 590nm-605nm. Amber LED.

Input Power and Current: 3.0W.

ROOF LIGHTING:

DURAGUARD Outdoor LED Lighting or Approved Equivalent

DURAGUARD Model: VB53Q

·Size: 16 " Diameter

·Count: 48 Unit.

Input Voltage/Frecuency: 120-277 VAC/60Hz

Input Power and Current: 23 W 1400K color temperature..

CLEANING STATION LIGHTING: BEACHSIDE LIGHTING or Approved Equivalent

Model: L011-CM, GU 5.3 MR16 LED(5W-A-NFL)

·Size: 2.4" dia. body x 4.75" dia. base x 4.7"

·Count: 4 Unit.

·Input Voltage/Frecuency: 12 VAC/60Hz

Input Power and Current: 5 W, AMBER (1500K TURTLE FRIENDLY).

Volt Pro: 900Watt 12-22V Multitap Transformer.

·Location: As per THA and Qualus Plan.

·Count: Four.

·Dimensional Footprint: 18"X10"X8".

•Equipment Specifications:

UL LISTED, NEMA 4X Suitable for coastal environments per IEEE C57.12.29. White Powder Coat Finish, 316L Stainless Steel. 0

 $\frac{1}{1}$

PANEL BOARD #1

- ·Location: Restroom Building.
- ·Count: One.
- ·Dimensional Footprint: To be

·Equipment Specifications.

- o UL LISTED, NEMA 4X Suit
- White Powder Coat Finish,
- o 240/120 V 4W, 60Hz Frequ

PANEL BOARD #2

·Location: Middle Pavillion

·Count: One.

·Dimensional Footprint: To be

·Equipment Specifications.

- o UL LISTED, NEMA 4X Suit
- White Powder Coat Finish,
- 240/120 V 4W, 60Hz Frequ 0

RECEPTACLES:

Marina Electrical Equipr

Model: Duplex water res

·Size: Standard Duplex size

•Count: 12 Unit.

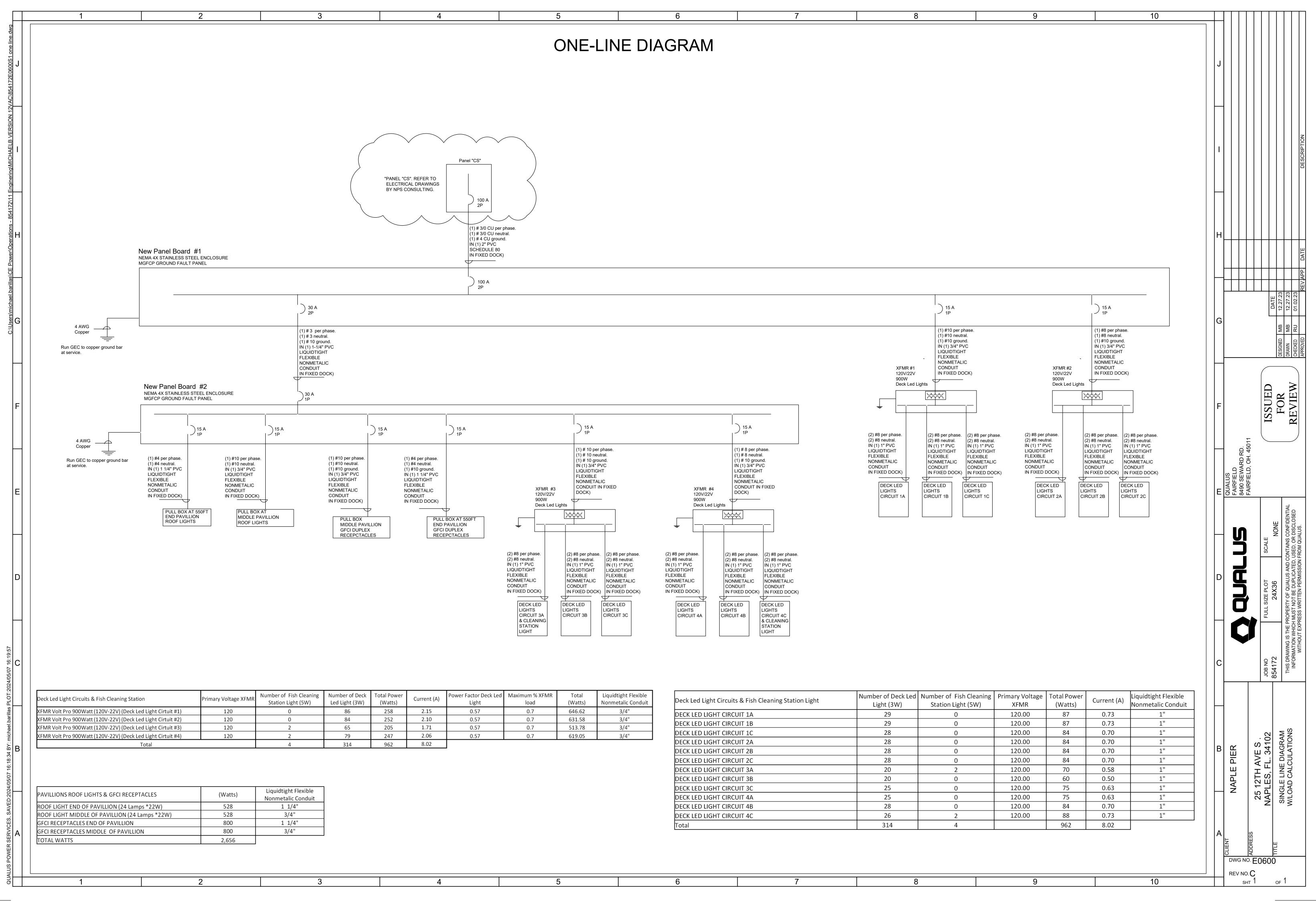
·Input Voltage/Frecuency: 125 VA

·Input Current: 20 A

Installation Details: Transformers/Pa Shall Be Installed with 316 S/S Fast Unit and the Mounting Surface. Unit shall be mounted 30 in above t

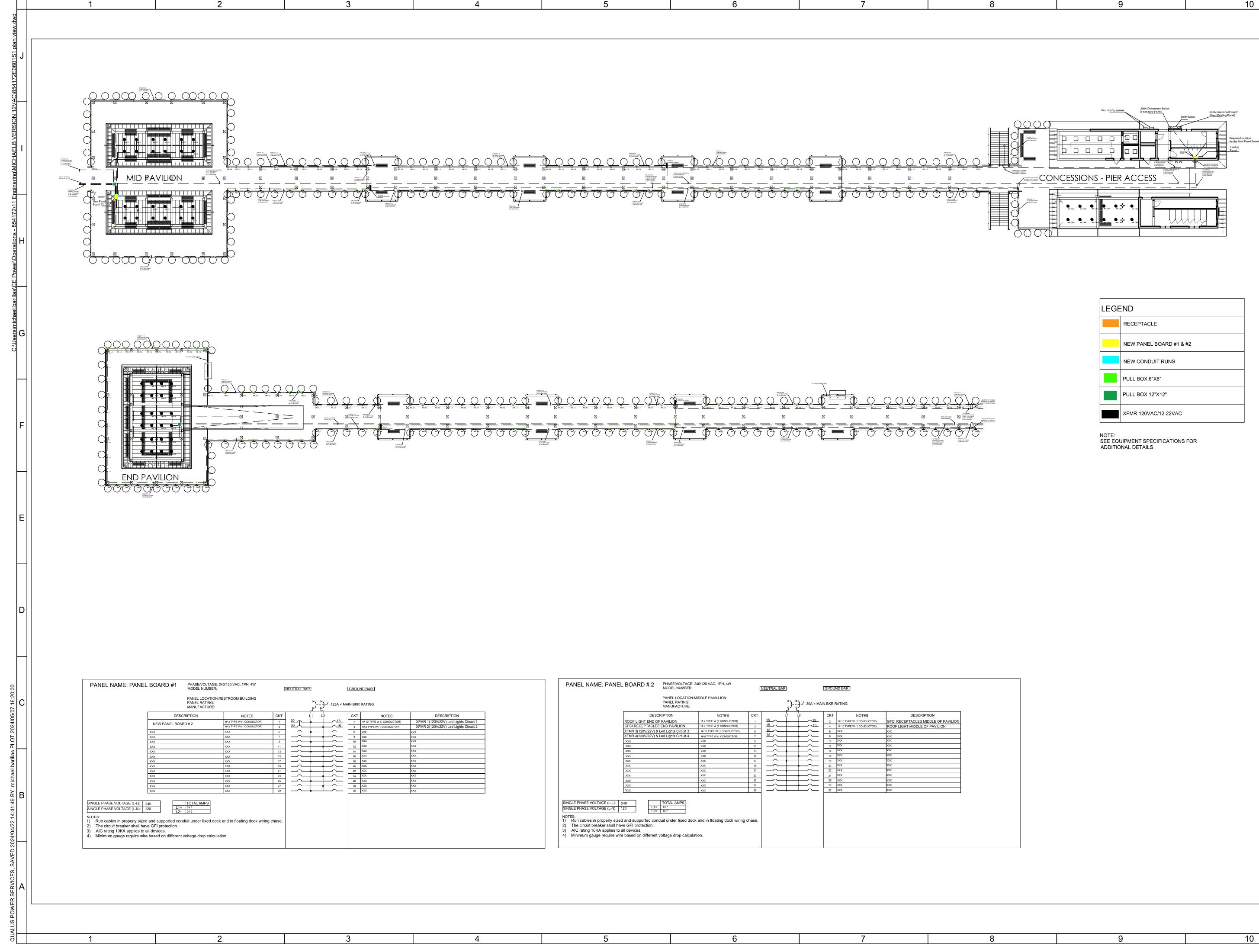
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table for coastal environments per IEEE C57.12.29. , 316L Stainless Steel. uency.	E E	FAIRFIELD 8490 SEWARD RD. FAIRFIELD OH 45011	<u>,</u> 2 2		DENTIAL OSED
	D	SUJAUD		FULL SIZE PLOT SCALE 24X36 NONE	THIS DRAWING IS THE PROPERTY OF QUALUS AND CONTAINS CONFIDENTIAL INFORMATION WHICH MUST NOT BE DUPLICATED, USED, OR DISCLOSED WITHOUT EXPRESS WRITTEN PERMISSION FROM QUALUS.
esistant GFCI Outdoor	C			JOB NO FULL SI 854172	THIS DRAWING IS THE PROPERTY INFORMATION WHICH MUST NO WITHOUT EXPRESS WRI
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anel Board tenings and an Isolation Pad Between the the water level at the floating pier or boat above the level of the deck.	B	NAPLE PIER	TH AVE (NAPLES, FL. 341	EQUIPMENT SPECIFICATION
8 9 10		DWG NC REV NO.	Ç	101	

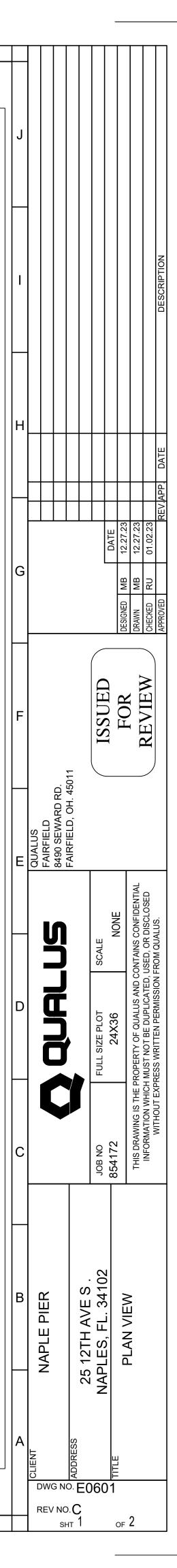


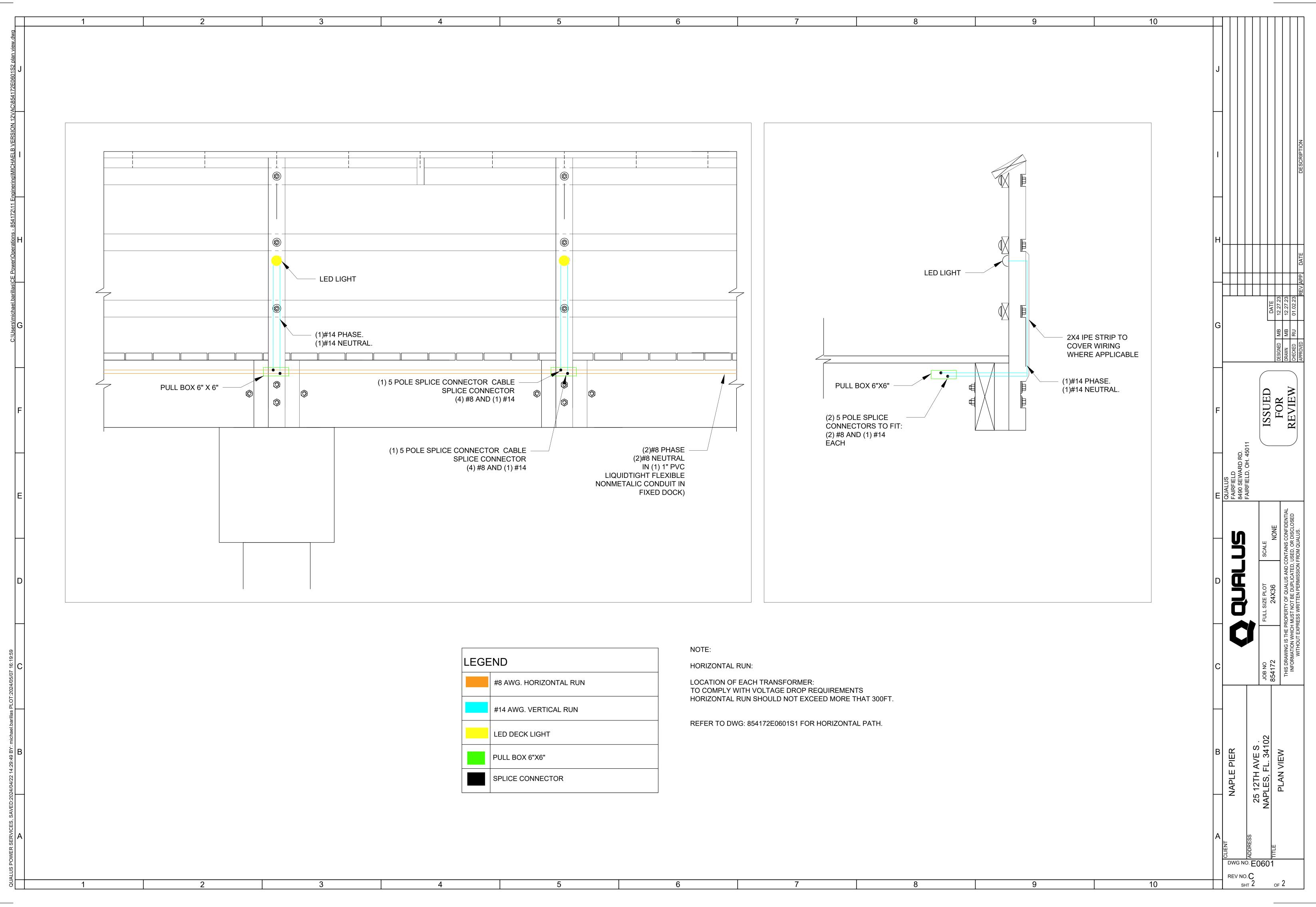
t (A)	Power Factor Deck Led Light	Maximum % XFMR load	Total (Watts)	Liquidtight Flexible Nonmetalic Conduit
5	0.57	0.7	646.62	3/4"
0	0.57	0.7	631.58	3/4"
1	0.57	0.7	513.78	3/4"
6	0.57	0.7	619.05	3/4"
2				

Deck Led Light Circuits & Fish Cleaning Station Light	Number of Deck Lec Light (3W)
DECK LED LIGHT CIRCUIT 1A	29
DECK LED LIGHT CIRCUIT 1B	29
DECK LED LIGHT CIRCUIT 1C	28
DECK LED LIGHT CIRCUIT 2A	28
DECK LED LIGHT CIRCUIT 2B	28
DECK LED LIGHT CIRCUIT 2C	28
DECK LED LIGHT CIRCUIT 3A	20
DECK LED LIGHT CIRCUIT 3B	20
DECK LED LIGHT CIRCUIT 3C	25
DECK LED LIGHT CIRCUIT 4A	25
DECK LED LIGHT CIRCUIT 4B	28
DECK LED LIGHT CIRCUIT 4C	26
Total	314



4	5	6	7	





LEGEND							
	#8 AWG. HORIZONTAL RUN						
	#14 AWG. VERTICAL RUN						
	LED DECK LIGHT						
	PULL BOX 6"X6"						
	SPLICE CONNECTOR						



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FAX: (239)643-6632 EMAIL: TUNE@THANAPLES.COM

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NAPLES PIER RECONSTRUCTION

25 12th Ave S., Naples FL 34102

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TEL: (813)623-3100 FAX: (770)425-1113 EMAIL: AALBERDI@USANOVA.COM

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SHAWN ANDERSON, P.E., S.E. 12573 NEW BRITTANY BLVD. FORT MYERS, FL 33907 TEL: (239)210-5090 EMAIL: SHAWN@SELECTSTRUCTURAL.COM

NPS CONSULTING

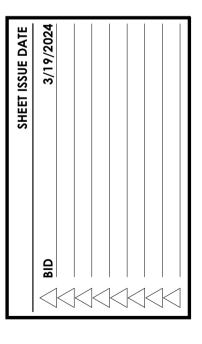
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERING & REPRESENTATION NICHOLAS P. STEWART 2534 SE SANTA BARBARA PL, SUITE 201 CAPE CORAL, FL 33904 TEL: (239)677-3004 EMAIL: NICK@NPSCONSULTINGLLC.COM





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ABBREVIATIONS:

ABV ABOVE AFF ABOVE FINISHED EF EACH FACE FLOOR ASC ABOVE SUSPENDED CEILING ACC ACCESS AP ACCESS PANEL ACT ACOUSTICAL PANEL ADH ADHESIVE ADJ ADJACENT ADJT ADJUSTABLE AGG AGGREGATE A/C AIR CONDITIONING ALT ALTERNATE ALUM ALUMINUM **AB ANCHOR BOLT** ANOD ANODIZED APX APPROXIMATE AD AREA DRAIN ASPH ASPHALT AT ASPHALT TILE AUTO AUTOMATIC BSMT BASEMENT BRG BEARING BPL BEARING PLATE BM BENCH MARK BET BETWEEN BVL BEVELED BIT BITUMINOUS BLK BLOCK BLKG BLOCKING BD BOARD BS BOTH SIDES **BW BOTH WAYS** BOT BOTTOM BRK BRICK BRZ BRONSE BLDG BUILDING BUR BUILT UP ROOFING CAB CABINET CPT CARPET (ED) CSMT CASEMENT CI CAST IRON CIPC CAST-IN-PLACE CONCRETE CST CAST STONE CB CATCH BASIN CLG CEILING CHT CEILING HEIGHT CEM CEMENT CM CENTIMETER(S) CER CERAMIC CT CERAMIC TILE CMT CERAMIC MOSAIC FUT FUTURE (TILE) CHAM CHAMFER CIR CIRCLE CLR CLEAR (ANCE) COL COLUMN COMB COMBINATION CONC CONCRETE CMU CONCRETE **MASONRY UNIT** CONST CONSTRUCTION CONT CONTINUOUS OR GB GRAB BAR CONTINUE CONTR CONTRACT (OR) CLL CONTRACT LIMIT CJ CONTROL JOINT CG CORNER GUARD CORR CORRUGATED CFL COUNTER FLASHING HDR HEADER CRS COURSE (S) CF CUBIC FOOT CY CUBIC YARD DP DAMPPROOFING DL DEAD LOAD DEMO DEMOLISH, DEMOLITION DFE DESIGN FLOOD ELEVATION DTL DETAIL DIAG DIAGONAL DIAM DIAMETER DIM DIMENSION DIV DIVISION DR DOOR DA DOUBLEACTING DH DOUBLE HUNG DOWNSPOUT DRAIN DWR DRAWER DF DRINKING FOUNTAIN DW DUMBWAITER

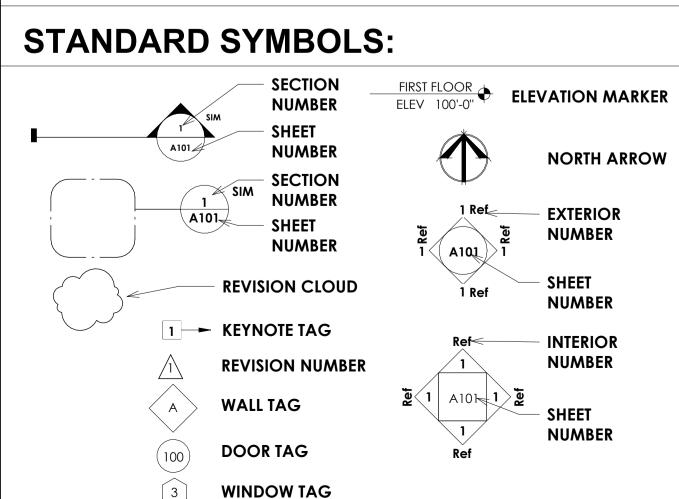
EA EACH FAST ELEC ELECTRIC (AL) EP ELECTRIC PANELBOARD EWC ELECTRIC WATER COOLER EL ELEVATION ELEV ELEVATOR EMER EMERGENCY EQ EQUAL EST ESTIMATE EXCA EXCAVATE EXH EXHAUST EXTG EXISTING EB EXPANSION BOLT EXP EXPOSED EXT EXTERIOR EXS EXTRA STRONG **FB FACE BRICK** FOC FACE OF CONCRETE FOF FACE OF FINISH FOM FACE OF MASONRY FOS FACE OF STUDS FF FACTORY FINISH FAS FASTEN, FASTENER FBD FIBERBOARD FGL FIBERGLASS FIN FINISH (ED) FFE FINISHED FLOOR ELEVATION FFL FINISHED FLOOR LINE FA FIRE ALARM FBRK FIRE BRICK FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FHS FIRE HOSE STATION FPL FIREPLACE FP FIREPROOF FRT FIRE-RETARDANT FLG FLASHING FLX FLEXIBLE FLR FLOOR (ING) FLCO FLOOR CLEANOUT FD FLOOR DRAIN FPL FLOOR PLATE FLUR FLUORESCENT FTG FOOTING FND FOUNDATION FR FRAME (D), (ING) FRA FREASH AIR FS FULL SIZE FBO FURNISHED BY OTHERS FUR FURRED (ING) GA GAGE, GAUGE GALV GALVANIZED GI GALVANIZED IRON GP GALVANIZED PIPE GSS GALVANIZED STEEL SHEET GC GENERAL CONTRACTOR PNT PAINT (ED) GL GLASS, GLAZING GLB GLASS BLOCK GLF GLASS FIBER GD GRADE, GRADING GVL GRAVEL GT GROUT GYP GYPSUM DRY WAL HBD HARDBOARD HDW HARDWARE HWD HARDWOOD HTG HEATING HVAC HEATING/VENTILATING/ AIR CONDITIONING HT HEIGHT HC HOLLLOW CORE HM HOLLOW META HOR HORIZONTAL HB HOSE BIBB INCIN INCINERATOR INCL INCLUDE (D), (ING) ID INSIDE DIAMETER INSUL INSULATE (D), (ING) INT INTERIOR INTM INTERMEDIATE INV INVERT IP IRON PIPE IPS IRON PIPE SIZE JC JANITOR'S CLOSET JT JOINT JF JOINT FILLER

KIT KITCHEN RAD RADIUS KO KNOCKOUT **RDWD REDWOOD** LBL LABEL LAB LABORATORY LB LAG BOLT LAM LAMINATE (ED) LAV LAVATORY LH LEFT HAND l length LT LIGHT LW LIGHTWEIGHT LWC LIGHTWEIGHT CONCRETE LMS LIMESTONE LTL LINTEL LL LIVE LOAD LVR LOUVER LPT LOW POINT MH MANHOLE MFR MANUFACTURE MAS MASONRY MO MASONRY OPENING MTL MATERIAL (S) MAX MAXIMUM MECH MECHANIC (AL) MC MEDICINE CABINET MED MEDIUM **MBR MEMBER MMB MEMBRANE** MET METAL M METER (S) MM MILLIMETER (S) MIN MINIMUM MIR MIRROR MISC MISCELLANEOUS SP MOD MODULAR MLD MOLDING MOULDING MR MOP RECEPTOR MT MOUNT (ED), SQ (ING) MOV MOVABLE MULL MULLION NAT NATURAL NRC NOISE REDUCTION STOR STORAGE COEFFICIEANT NOM NOMINAL NMT NONMETALIC N NORTH TILE NIC NOT IN CONTRACT SUSP SUSPENDED NTS NOT TO SCALE OC ON CENTER (S) OPG OPENING OPP OPPOSITE OPH OPPOSITE HAND OPS OPPOSITE SURFACE TPTN OD OUTSIDE DIAMETER TPD TOILET PAPER OA OVERALL OH OVERHEAD PNL PANEL PB PANIC BAR ΤG PTD PEPER TOWEL DISPENSER TSL PTR PAPER TOWE RECEPTOR PAR PARALLEL PK PARKING PBD PARTICLE BOARD PTN PARTITION PV PAVE (D), (ING) PVMT PAVEMENT PED PEDESTAL PERF PERFORATE (D) PERI PERIMETER PLAS PLASTER P.L. PLASTIC LAMINATE VERT VERTICAL PL PLATE PG PLATE GLASS PW PLWOOD PT POINT PVC POLYVINYL CHLORIDE PTC POST-TENSIONED CONCRETE PCF POUNDS PER CUBIC FOOT PLF POUNDS PER LINEAL FOOT PSF POUNDS PER SQUAREWS FOOT PSI POUNDS PER SQUARE INCH INCH PFB PREFABRICATE (D) PFN PREFINISHED PSC PRESTRESSED CONCRETE PL PROPERTY LINE QT QUARRY TILE

REF REFERENCE **REFR REFRIGERATOR** REG REGISTER **REINF REINFORCE (D)** (ING) RCP REINFORCED **CONCRETE PIPE** RESIL RESILIENT RET RETURN RA RETURN AIR **REV REVISION** (S), REVISED RH RIGHT HAND ROW RIGHT OF WAY RISER RD ROOF DRAIN **RFG ROOFING** RM ROOM RSC ROUGH SAWN CEDAR RLK ROWLOCK SFGL SAFETY GLASS SCH SCHEDULE SCN SCREEN STG SEATING SECTION SECT SSD SEE STRUCTURAL DRAWINGS SHTG SHEATHING SHT SHEET SHEET GLASS SG SHELF, SHELVING SIM SIMILAR SLDC SOLDIER COURSE SC SOLID CORE SOUNDPROOF SOUTH SPK SPEAKER SPL SPECIAL SPEC SPECIFICATION (S SQUARE STAINLESS STEEL STD STANDARD STA STATION STL STEEL SD STORM DRAIN STRUCT STRUCTURAL SCT STRUCTURAL CLAY SYS SYSTEM TEL TELEPHONE TV TELEVISION THICK (NESS) тнк THR THRESHOLD TOILET PARTITION DISPENSER TOL TOLERANCE T&G TONGUE & GROOVE TC TOP OF CURB TOP OF GRADE TOP OF PAVEMEN TOP OF SLAB TOP OF STEE TOP OF WALL TOWEL BAR TREAD TYP TYPICAL UNFIN UNFINISHED UR URINAL VB VAPOR BARRIER VAR VARNISH VNR VENEER VG VERTICAL GRAIN VERIFY IN FIELD VIF VIN VINYL VB VINYL BASE VT VINYL TILE WSCT WAINSCOT WTW WALL TO WALL WH WALL HUNG WATER HEATER WC WATER CLOSET WP WATERPROOFING WATER REPELLENT WATERSTOP WEST WIDTH, WIDE WDW WINDOW WG WIRED GLASS WM WIRE MESH W/O WITHOUT WD WOOD WB WOOD BASE

WPT WORKING POINT

WI WROUGHT IRON



JST JOIST

GENERAL NOTES:

. IT IS THE INTENT OF THESE CONTRACT DOCUMENTS TO DEFINE AND DESCRIBE A COMPLETE FINISHED AND FULLY FUNCTIONING FACILITY. ANY PRODUCT, MATERIAL, SYSTEM, EQUIPMENT, OR ASSEMBLY WHICH NORMALLY WOULD BE REQUIRED TO MEET THIS REQUIREMENT SHALL BE PROVIDED AS IF SPECIFICALLY NOTED.

2. WHEN WORK IS NOT SPECIFICALLY NOTED BUT IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. THE DOCUMENTS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE OBTAINED FROM THE ARCHITECT THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK.

4. ALL WORK AS OUTLINED IN THESE DOCUMENTS SHALL CONFORM TO THE APPLICABLE CODES AND ORDINANCES IN EFFECT AT THE TIME THESE DOCUMENTS WERE PREPARED. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

5. CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT THE BID.

6. CONTRACTOR SHALL BE EXPERIENCED IN THIS TYPE OF WORK. NO ALLOWANCES WILL BE MADE FOR LACK OF EXPERIENCE.

7. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT THE CONSTRUCTION.

8. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, PLUGGED, OR CAPPED, AS REQUIRED BY CODE.

9. DAMAGED OR DISRUPTED EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO LANDSCAPING, LIGHTING, IRRIGATION, PEDESTRIAN AND VEHICLE ACCESS SHALL BE REPLACED AT THE END OF CONSTRUCTION TO THE SAME STANDARDS OF QUALITY AS EXISTED PRIOR TO CONSTRUCTION.

0. DISRUPTED ELECTRICAL AND WATER LINES SHALL BE RE-ROUTED DURING CONSTRUCTION AND ARE TO REMAIN IN CONTINUOUS SERVICE UNLESS OTHERWISE INDICATED OR INSTRUCTED.

11.NO CHANGES, MODIFICATIONS OR DEVIATIONS SHALL BE MADE FROM THE DRAWINGS OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN DIRECTION FROM THE ARCHITECT.

12.WHERE LACK OF INFORMATION OR DISCREPANCY EXISTS IN THE DRAWINGS OR SPECIFICATIONS, REQUEST WRITTEN INTERPRETATION FROM THE ARCHITECT BEFORE PROCEEDING.

13.UNLESS OTHERWISE NOTED, ELECTRICAL CONDUITS, PLUMBING LINES, ETC SHALL BE RUN CONCEALED AND FRAMING SHALL BE CORRECTLY SIZED TO ACCOMPLISH THIS WITHOUT CREATING VARIATIONS IN THE WALL PLANE.

14.PROVIDE ADEQUATE CONCEALED BLOCKING AND ANCHORING FOR ALL CEILING AND WALL MOUNTED EQUIPMENT, HARDWARE, AND ACCESSORIES.

15. WHEN A PRODUCT, SYSTEM OR ASSEMBLY IS CALLED FOR, ALL NECESSARY PARTS AND MATERIALS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

16.PRIOR TO PROCEEDING WITH WORK, CONTRACTOR SHALL COORDINATE WITH EACH TRADE THE LOCATIONS OF SLEEVES OR ACCESSORIES INVOLVING OTHER TRADES.

17. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP PROVIDED OR PERFORMED BY THE CONTRACTOR, SHALL BE MADE GOOD AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL ACCEPT AND FULLY UNDERSTAND THIS PROVISION PRIOR TO THE CONTRACT BEING AWARDED. NO CLAIM FOR EXTRA COMPENSATION WILL BE ALLOWED FOR CORRECTION OF FAULTY WORK OR DEFECTIVE MATERIALS. AT ANY TIME DURING THE CONSTRUCTION PERIOD, OWNER'S REPRESENTATIVES AND THE ENGINEER RETAIN THE RIGHT TO REQUIRE THE CONTRACTOR TO REMOVE AND REINSTALL ANY EQUIPMENT OR MATERIALS NOT FOLLOWING THE STANDARDS TBD TO BE DETERMINED AS PRESENTED HEREIN OR ON THE DRAWINGS AND AT NO COST TO THE THE OWNER.

SITE CONDITIONS

1. LOCATE, IDENTIFY, AND PROTECT ALL EXISTING UTILITIES ENCOUNTERED DURING THE WORK. IF ANY, NOTIFY UTILITY COMPANIES OF IMPENDING WORK.

2. ENSURE THAT ALL UTILITY AND OTHER SERVICES WHICH MAY BE DISTURBED DURING CLOSE EXCAVATION ARE TEMPORARILY STAYED AND BRACED IN POSITION DURING THE WORK.

3. PROVIDE SLEEVES APPROPRIATE TO CONSTRUCTION WHERE NEW PIPES, CONDUIT, AND DUCTS PENETRATE WALLS AND FLOORS. FILL VOIDS WITH FIRE SAFING INSULATION OR FOAM PENETRATION SEALANT.

4. PROGRESS CLEANING: REMOVE DEBRIS FROM INTERIOR OF BUILDING ON A DAILY BASIS AND STORE TEMPORARILY IN COMMERCIAL TRASH CONTAINERS. REMOVE DEBRIS FROM BUILDING SITE AT INTERVALS REQUIRED TO MINIMIZE OVERFLOW AND SPILLAGE. HANDLE HAZARDOUS, DANGEROUS, OR UNSANITARY WASTE MATERIALS SEPARATELY FROM OTHER WASTE BY CONTAINERIZING PROPERLY. DISPOSE OF MATERIAL IN A LAWFUL MANNER.

5. PROVIDE TEMPORARY TOILET FACILITIES FOR CONSTRUCTION USE. USE OF THE OWNERS TOILET FACILITIES WILL NOT BE PERMITTED.

FINAL COMPLETION

I . DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE OWNER'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE WASTE MATERIALS FROM THE SITE AND DISPOSE IN A LAWFUL MANNER.

2. COMPLETE CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF SUBSTANTIAL COMPLETION AND MAINTAIN BUILDING IN CLEANED CONDITION UNTIL FINAL COMPLETION

3. REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED FOR PROTECTION OF THE WORK DURING CONSTRUCTION.

4. REMOVE LABELS, CLEAN GLASS SURFACES, AND DUST AND WIPE CLEAN ALL PRODUCTS, MATERIALS, SYSTEMS, FINISHES, EQUIPMENT, AND SURFACES.

ARCHITECTS DISCLAIMER 1. THE ARCHITECTS CERTIFICATION OF THE DOCUMENTS IS LIMITED TO THE DOCUMENTS AND

THE INFORMATION CONTAINED IN THE DOCUMENTS.

2. THE ARCHITECTS CERTIFICATION SHALL NOT EXTEND TO REVISIONS TO THE DOCUMENTS OR REVISIONS IN THE INFORMATION CONTAINED IN THE DOCUMENTS WHERE SUCH REVISIONS WERE NOT PERFORMED AND/OR AUTHORIZED IN WRITING BY THE ARCHITECT.

3. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR REVISIONS TO THE DOCUMENTS OR REVISIONS IN INFORMATION CONTAINED IN THE DOCUMENTS AND WHERE SUCH REVISIONS HAVE BEEN MADE BY OTHERS TO PRODUCTS, MATERIALS, FINISHES, DIMENSIONS, SYSTEMS, ASSEMBLIES, OR AESTHETIC INTENT.

PLATFORM.

PROJECT SUMMARY:

THIS IS A PERMIT APPLICATION FOR THE RECONSTRUCTION OF THE NAPLES PIER. LOCATED AT 25 12TH AVENUE SOUTH, NAPLES FL 34102. THE PROJECT WILL CONSIST OF: AN INTERIOR AND EXTERIOR RENOVATION OF THE EXISTING MEN'S AND WOMEN'S restrooms; a concessions and storage addition to the men's restroom; a COVERED OPEN-AIR DINING PAVILION ADDITION TO THE WOMEN'S RESTROOM/SHOWERS; ADA ACCESSIBLE PIER DECKING TO MID-PAVILION OPEN-AIR structures with viewing/fishing platforms; and additional ada accessible PIER DECKING TO AN ELEVATED END SUNSET PAVILION WITH VIEWING / FISHING

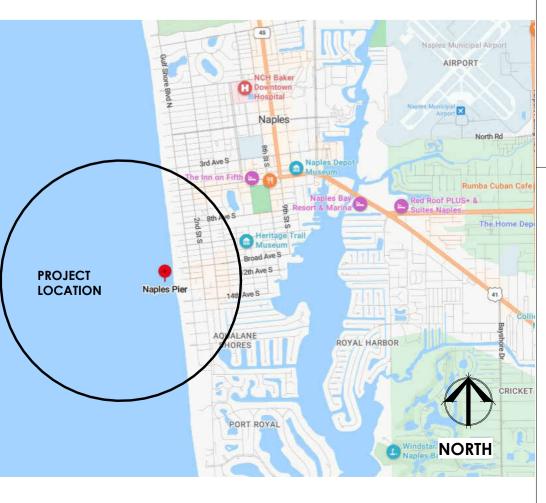
TERMITE PROTECTION:

- TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION. UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." A COPY SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. Condensate and roof downspouts shall discharge at least 1'-0" away
- FROM BUILDING SIDE WALLS IRRIGATION & SPRINKLER SYSTEMS, INCLUDING ALL RISERS AND SPRAY HEADS, SHALL
- NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS. 4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, CLEARANCE BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6 INCHES. EXCEPTIONS:
- A. PAINT OR DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL
- B. ACCESS OR VEHICLE RAMPS WHICH RISE TO THE INTERIOR FINISH FLOOR ELEVATION FOR THE WIDTH OF SUCH RAMPS ONLY. C. A 4-INCH INSPECTION SPACE ABOVE PATIO AND GARAGE SLABS AND ENTRY
- ARFAS. 5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACK FILL IS COMPLETE. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED.
- BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC.. SHALL BE MADE WITH A PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT.
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED.
- . CONCRETE OVER POUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT.
- . SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURES SIDEWALLS. 10. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER
- CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. 1 ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT
- 12. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL 13. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED
- WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING.

MATERIAL LEGEND:

	BRICK	STRUCTURAL CONCRETE		GYP. BD.
	STEEL	CERAMIC TILE	\searrow	LUMBER
	RIGID INSULATION	ALUMINUM		BLOCKING
	EARTH	PLYWOOD		FINSH WOOD
	UNDISTURBED EARTH	SHINGLES	1	GLASS
	GRAVEL	SIDING		СМИ

PROJECT LOCATION MAP:



PLICABLE CODES:			
CITY OF NAPLES MUNIC LORIDA BUILDING CO LORIDA FIRE PREVENTI LORIDA BUILDING CO LORIDA MECHANICAL LORIDA PLUMBING CO LORIDA ENERGY CON JATIONAL ELECTRIC CO	DE 8TH EDITION ON CODE 8TH E DE / ACCESIBIL CODE 8TH EDITION DE 8TH EDITION SERVATION CO	Edition (: .Ity 8th Ei fion (202 n (2023)	DITION (2023) 3)
ITE ADDRESS:	25 12TH AVENU	JE SOUTH	, NAPLES FL 34102
	EXISTING R1-15	HQ CH	IANGES
EMA FLOOD ZONE:	AE9 (2024) №	iens/wo	MENS EXISTING REST
2	VE 11 (2024) (C	CONCESS	IONS/CONCESSION
λ.	VE 13 (2024) (M	AID-PAVII	LION & END PAVILIO
DCCUPANCY:	ASSEMBLY A5		
UILDING TYPE:	TYPE IV (HEAV)	Y TIMBER)	/ TYPE III B UNPROTE
PRINKLER :	NON-SPRINKLE	D	
OTAL OCCUPANT LOA	D CALCULATIO	<u>N</u>	
PER FBC 2023 TABLE 10	004.5, NFPA 7.3.	.1.2)	
Concessions (kitche	EN)	509 SF	(200 GROSS)
Concessions (stora	.GE)	60 SF	(300 GROSS)
Concessions (waitin	1G)	294 SF	(5 NET)
Concessions (dining	G)	643 SF	(15 NET)
PIER STORAGE		65 SF	(300 GROSS)
MEN'S RESTROOMS		613 SF	(50 GROSS)
women's restroom		613 SF	(50 GROSS)
Showers		306 SF	(5 NET)
END PAVILION / DECK		3464 SF	(5 NET)
MID PAVILION 1 / DECI	K 1	2245 SF	(5 NET)
MID PAVILION 2 / DECI	K 2	2245 SF	(5 NET)
BUMPOUTS (16)		<u>81 SF</u>	<u>(5 NET) (16)</u>
			TOTAL
ALLOWABLE AREA			

(PER FBC 2023 TABLE 506.2)

ALLOWED UNLIMITED PROPOSED (ENCLOSED, UNDER ROOF): MEN'S RESTROOM/CONCESSION AND STORAGE ADDITION 1247 SF WOMEN'S RESTROOM: 613 SF

<u>ALLOWABLE HEIGHT</u>

(PER FBC 2023 TABLE 504.3A) ALLOWED TYPE IV: 65', TYPE III B = 55'PROPOSED MAX. ROOF HEIGHT = 35'-2"

ALLOWABLE STORIES (PER FBC 2023 TABLE 504.4) ALLOWED UNLIMITED (TYPE IV AND TYPE III) PROPOSED

ALLOWABLE TRAVEL DISTANCE (PER FBC 2023 TABLE 1017.2) ALLOWED 200' PROPOSED 99'-8"

CORRIDOR WIDTH (PER FBC 2023 TABLE 1020.3) MINIMUM ALLOWED = 44" MINIMUM ALLOWED W/OCCUP. LOAD LESS THAN 50 = 36" PROPOSED 12' = 144" (PIER) CORRIDOR

<u>dead ends</u> (PER FBC 2023 TABLE 1020.5) ALLOWED 20' PROPOSED N/A

NUMBER OF EXITS (PER FBC 2023 TABLE 1006.3.2) REQUIRED PROPOSED

PLUMBING FIXTURE REQUIREMENTS : NO CHANGE TO COUNT EXISTING FIXTURES TO BE REPLACED WITH NEW **ZONING INFORMATION**

LOT AREA: .34 ACRES, 15.000 SF (CODE, MINIMUM)

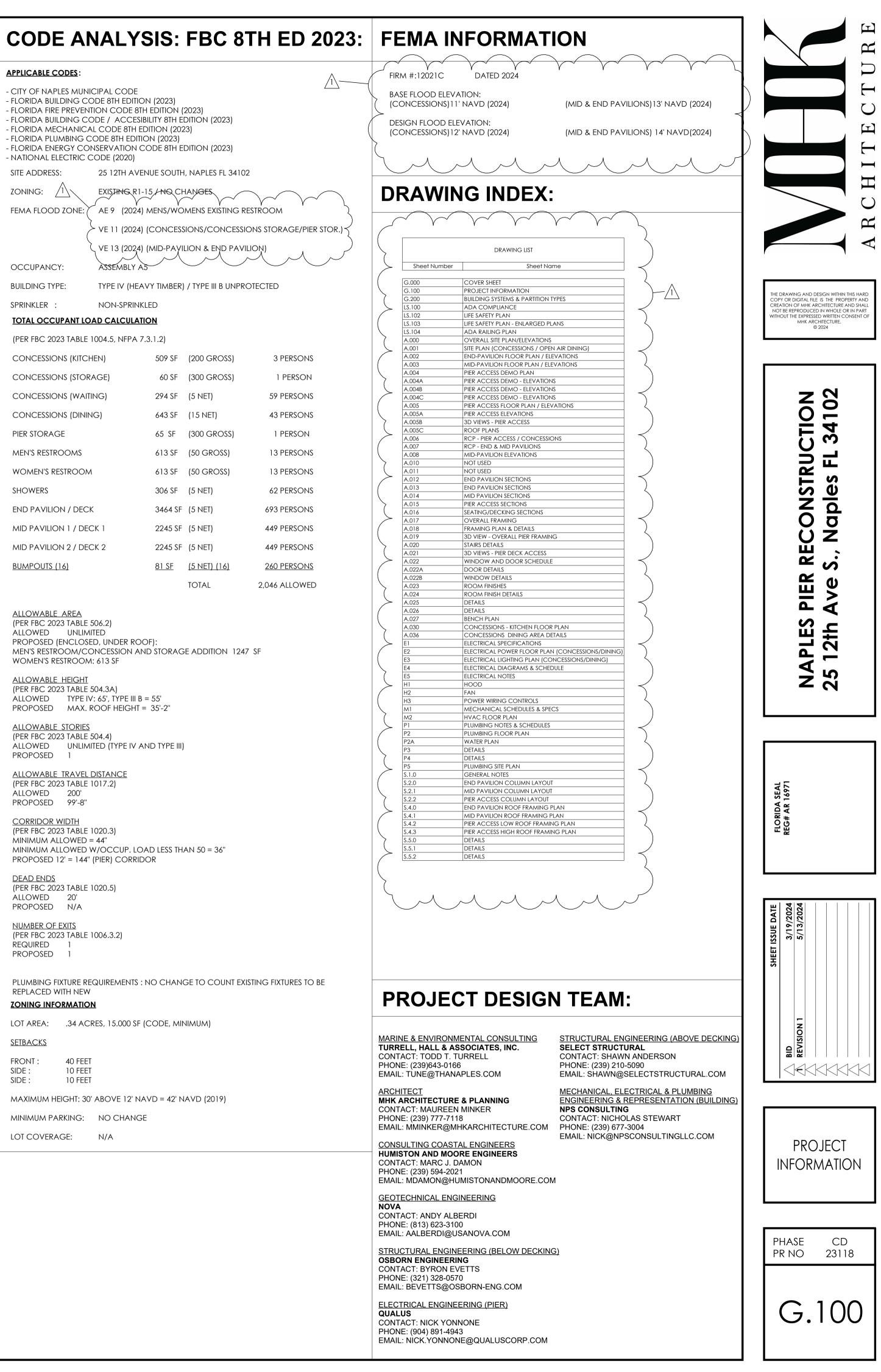
<u>setbacks</u>

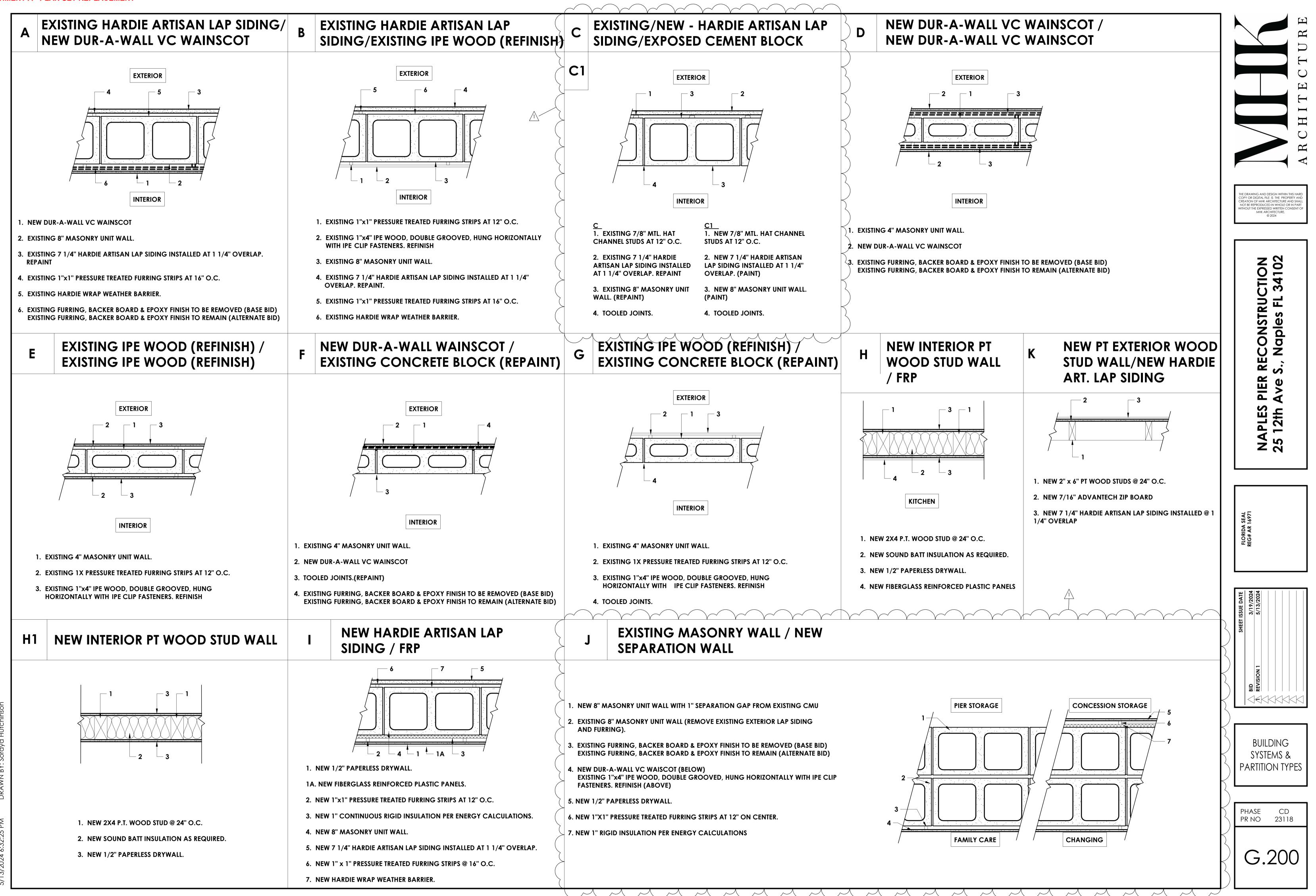
FRONT : 40 FFF SIDE : 10 FEET SIDE : 10 FEET

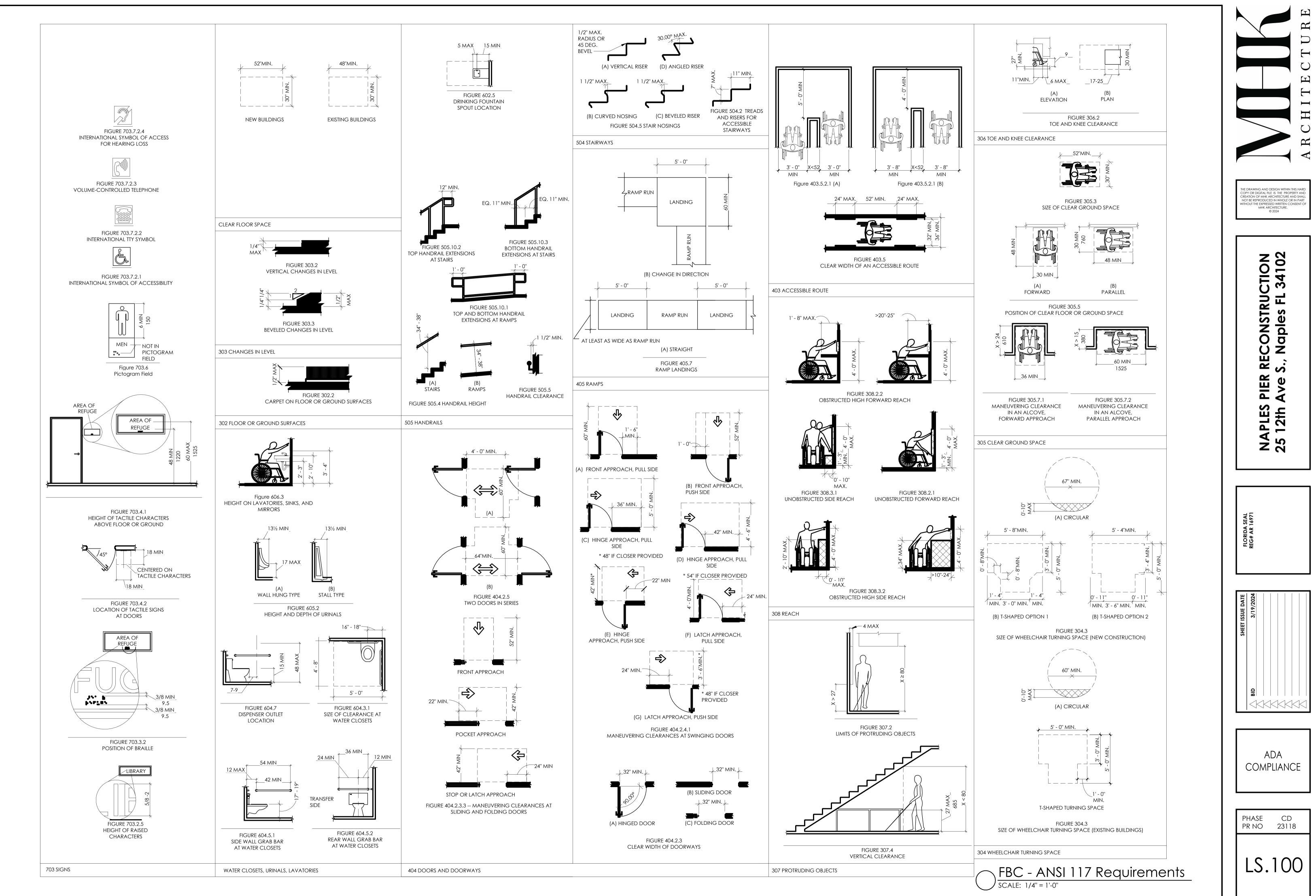
MAXIMUM HEIGHT: 30' ABOVE 12' NAVD = 42' NAVD (2019)

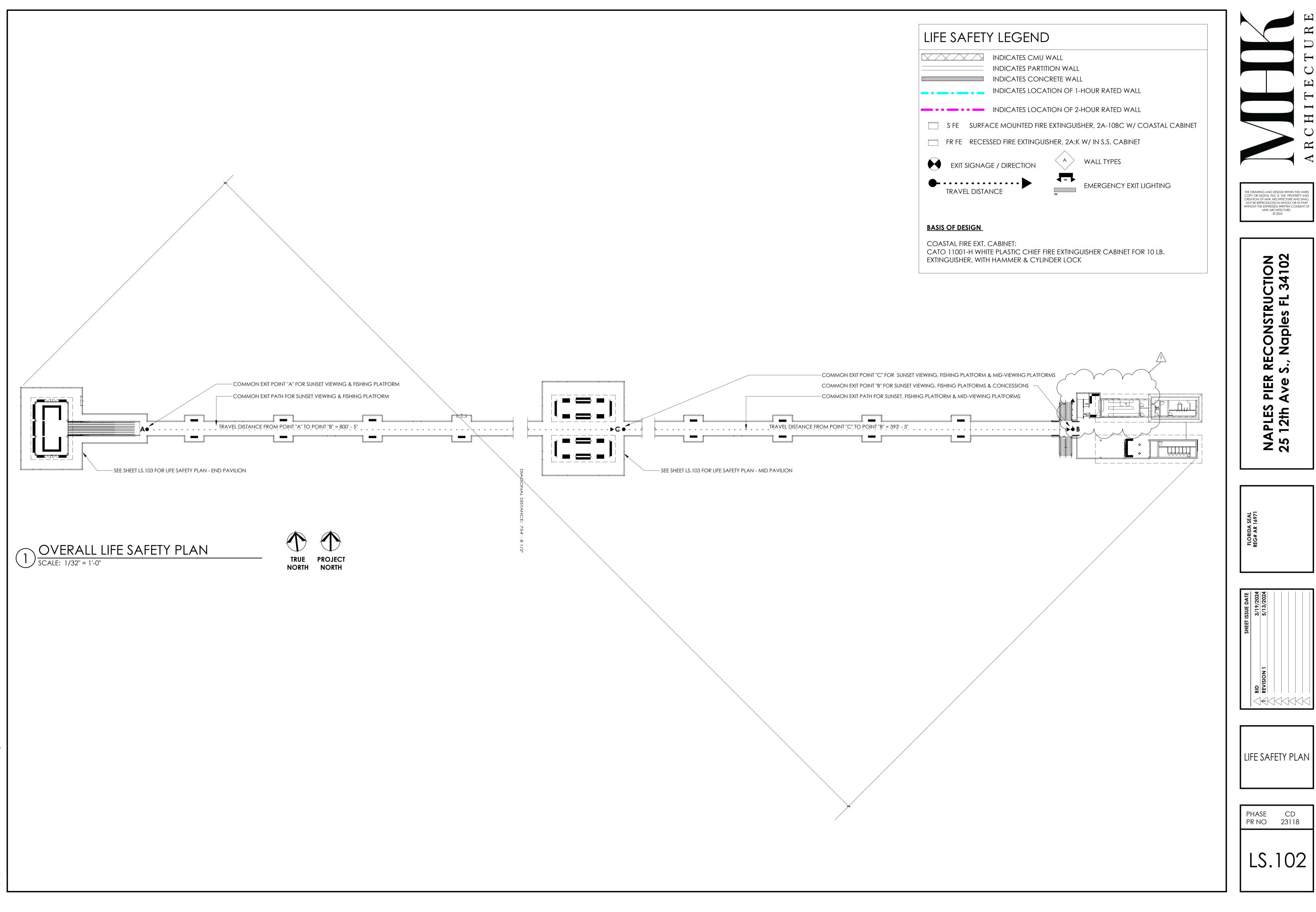
MINIMUM PARKING: NO CHANGE

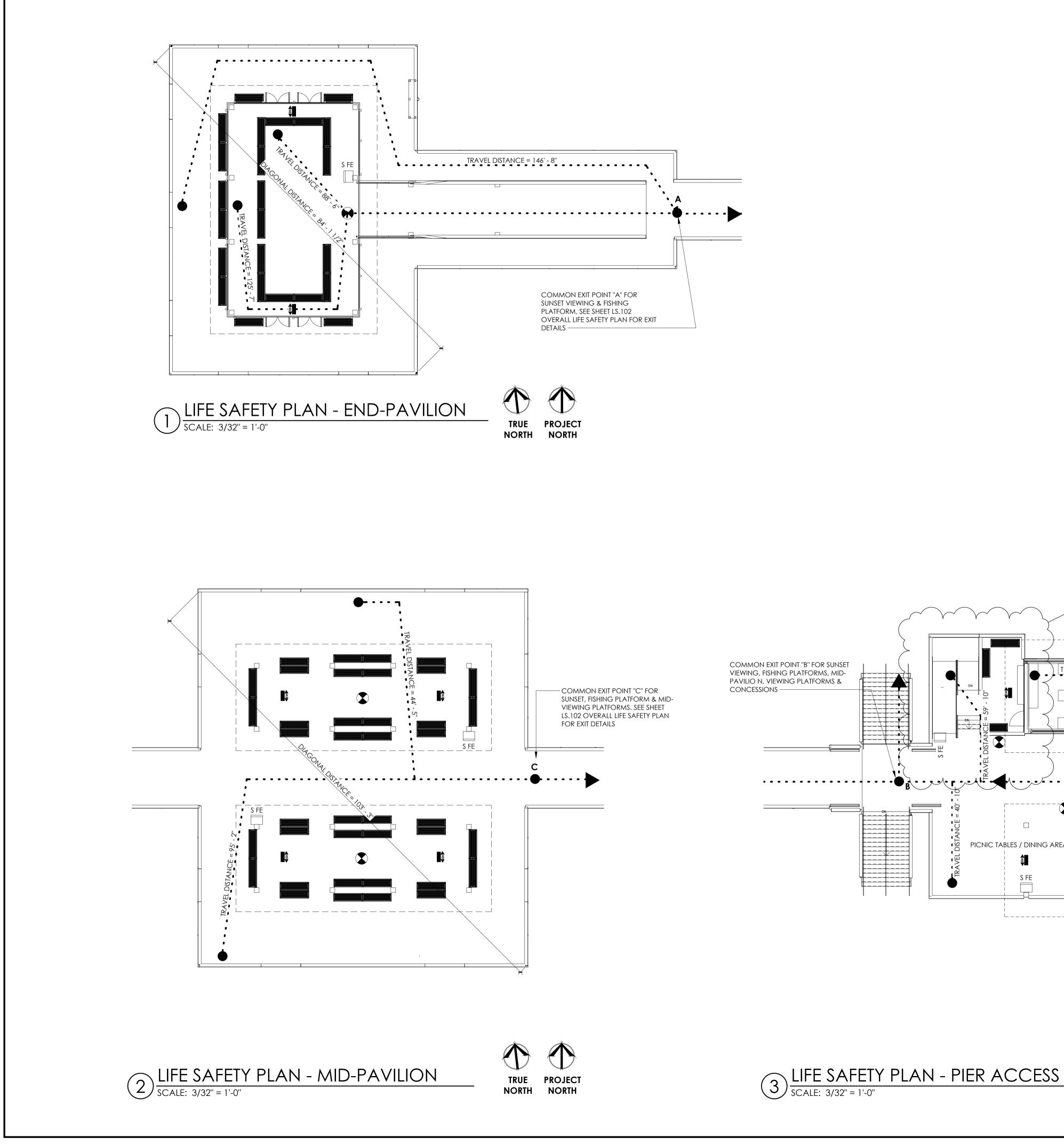
LOT COVERAGE: N/A







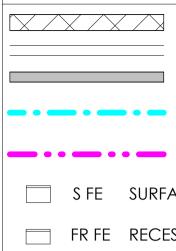


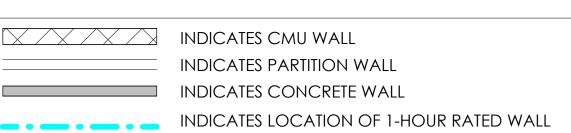


STORAGE CONCESSIONS $\frac{|\text{TRAVEL DISTANCE} = 99' - 8''|}{|\text{H}|}$ CONCESSIONS PIER storage PICNIC TABLES / DINING AREA ☐ •SHOW ABOVE AITZIX



LIFE SAFETY LEGEND



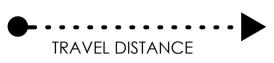


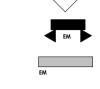
INDICATES LOCATION OF 2-HOUR RATED WALL

S FE SURFACE MOUNTED FIRE EXTINGUISHER, 2A-10BC W/ COASTAL CABINET

FR FE RECESSED FIRE EXTINGUISHER, 2A:K W/ IN S.S. CABINET

EXIT SIGNAGE / DIRECTION



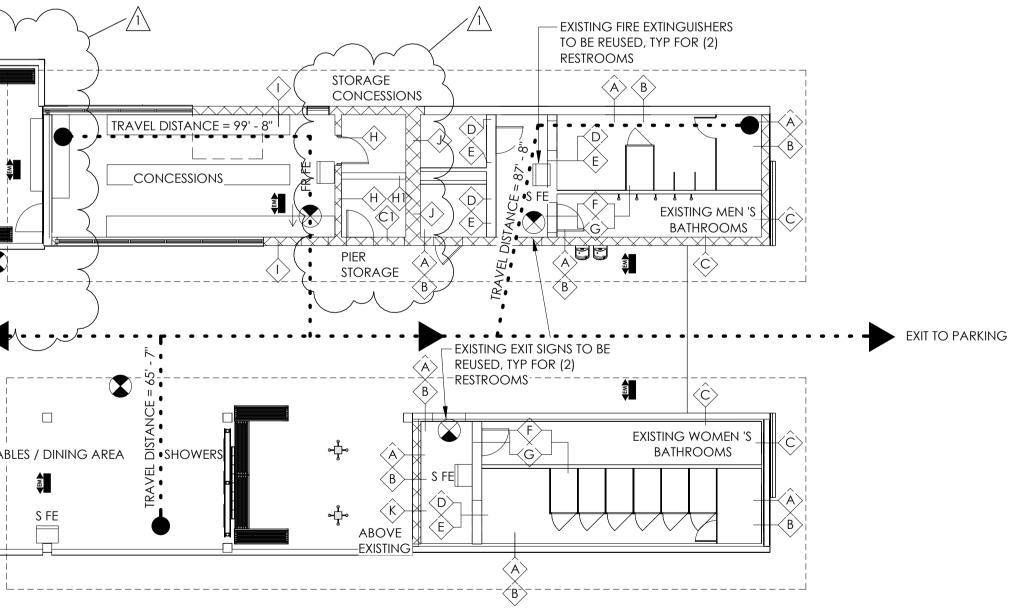


WALL TYPES

EMERGENCY EXIT LIGHTING

BASIS OF DESIGN

COASTAL FIRE EXT. CABINET: CATO 11001-H WHITE PLASTIC CHIEF FIRE EXTINGUISHER CABINET FOR 10 LB. EXTINGUISHER, WITH HAMMER & CYLINDER LOCK

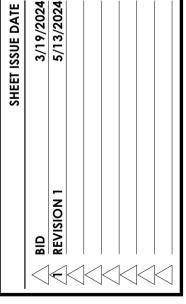






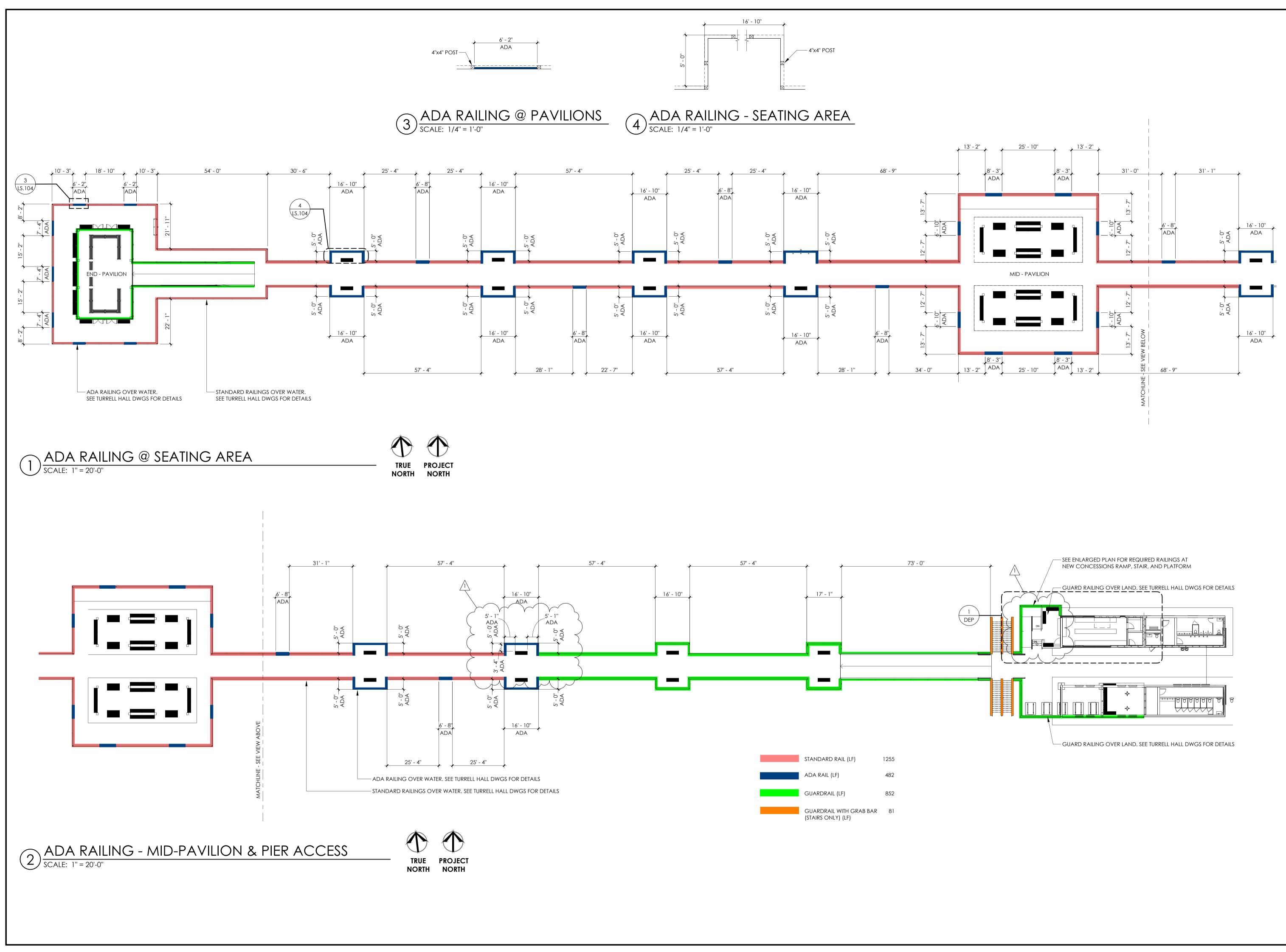
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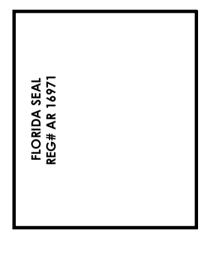


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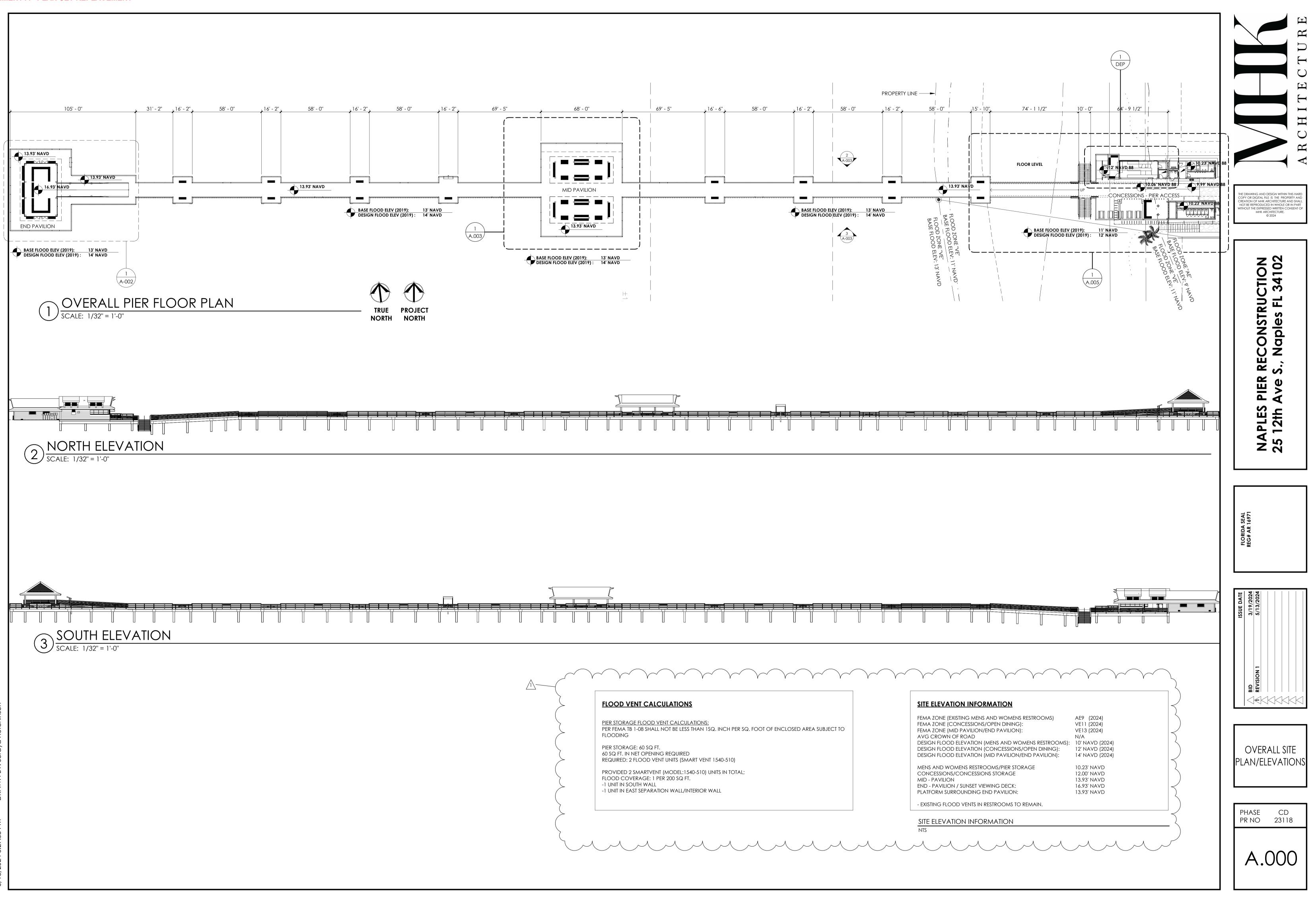




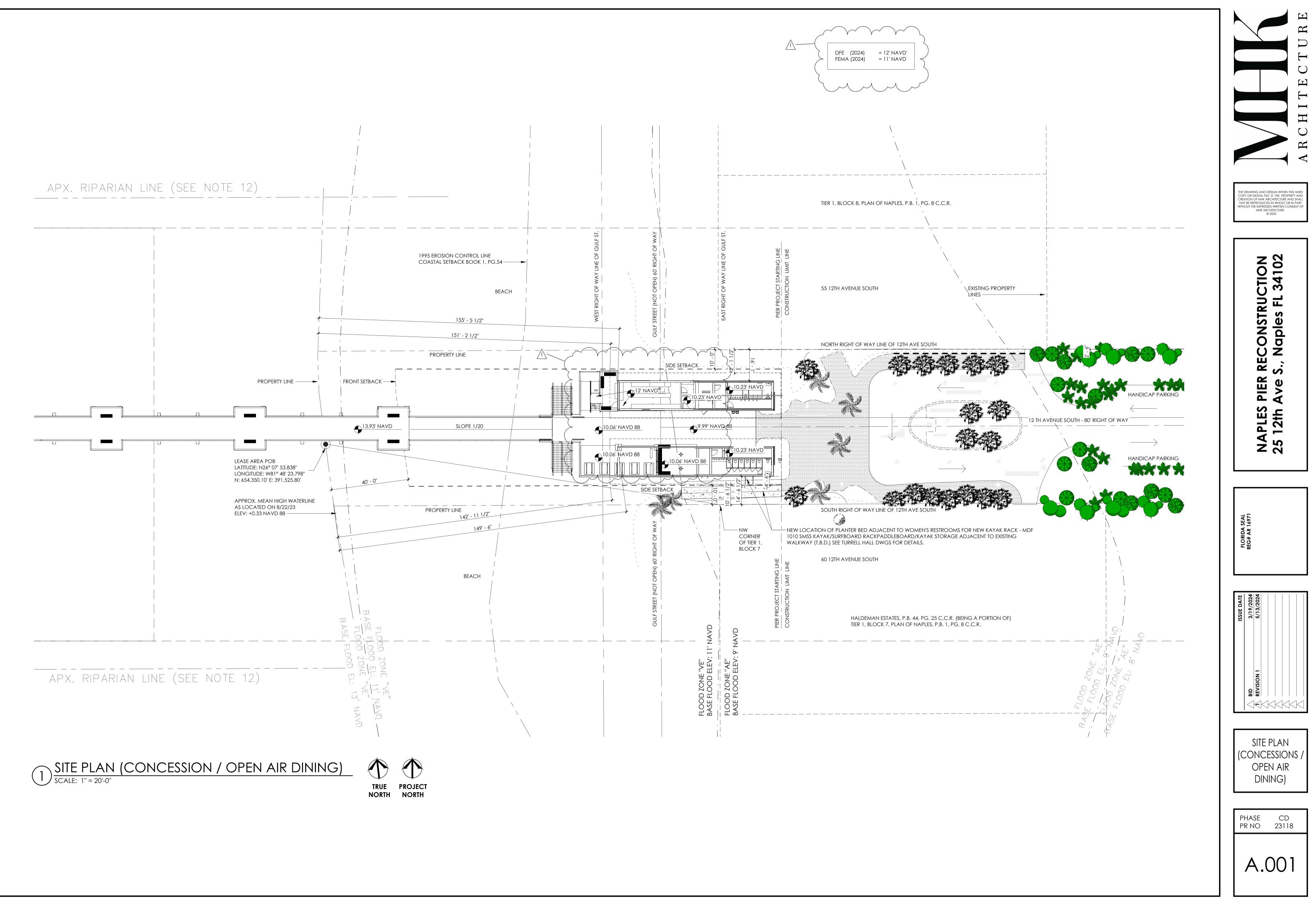


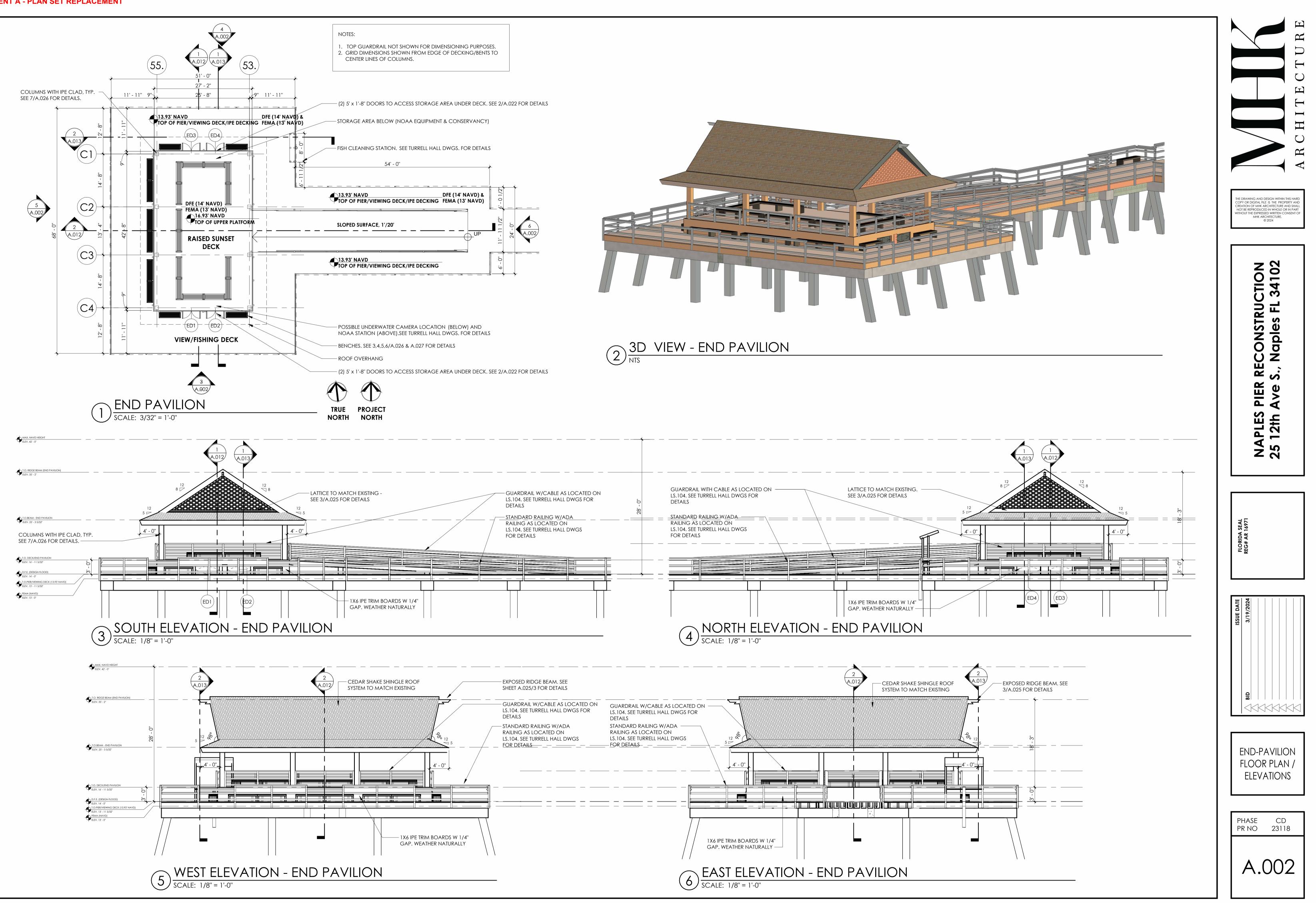


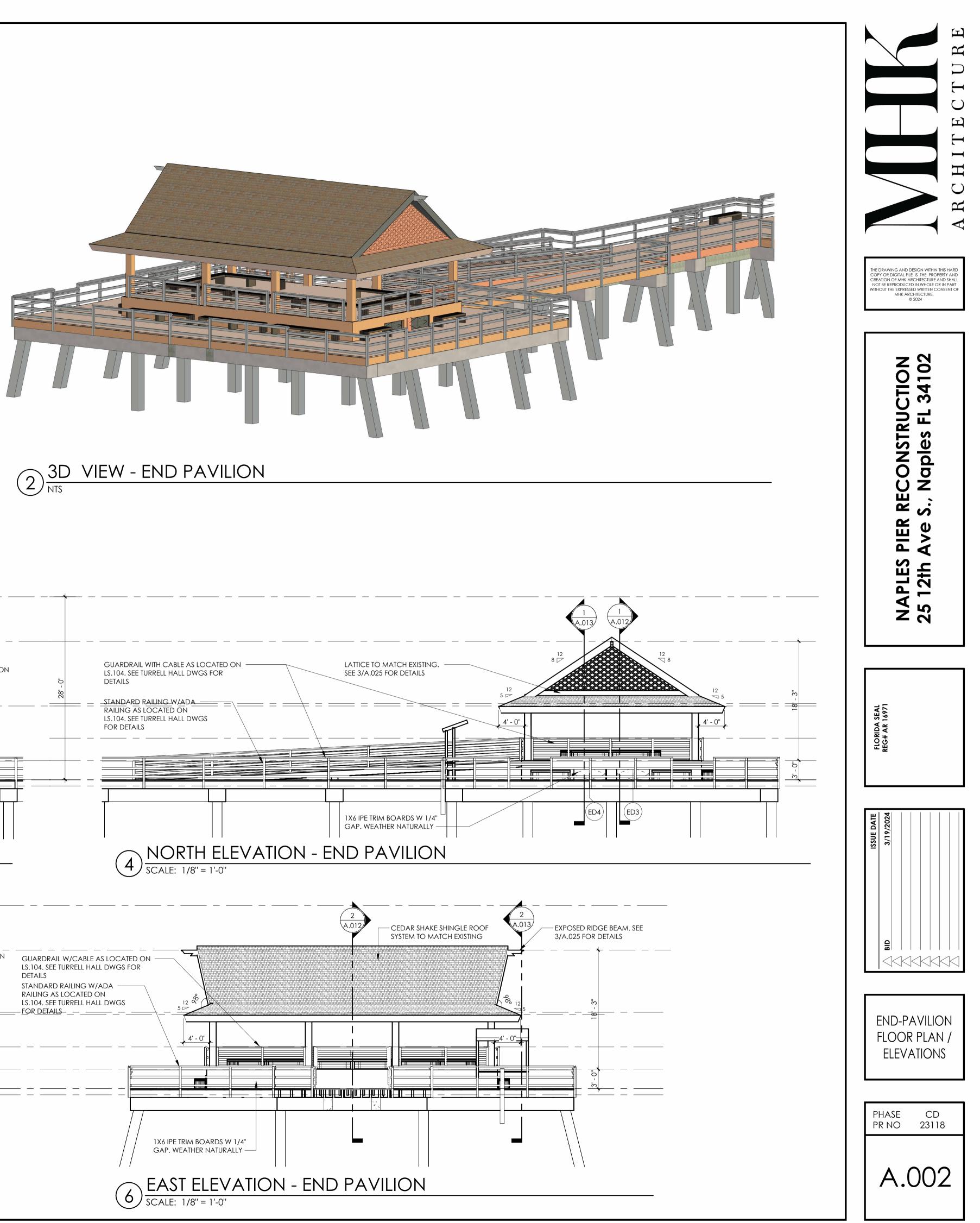
LS.104

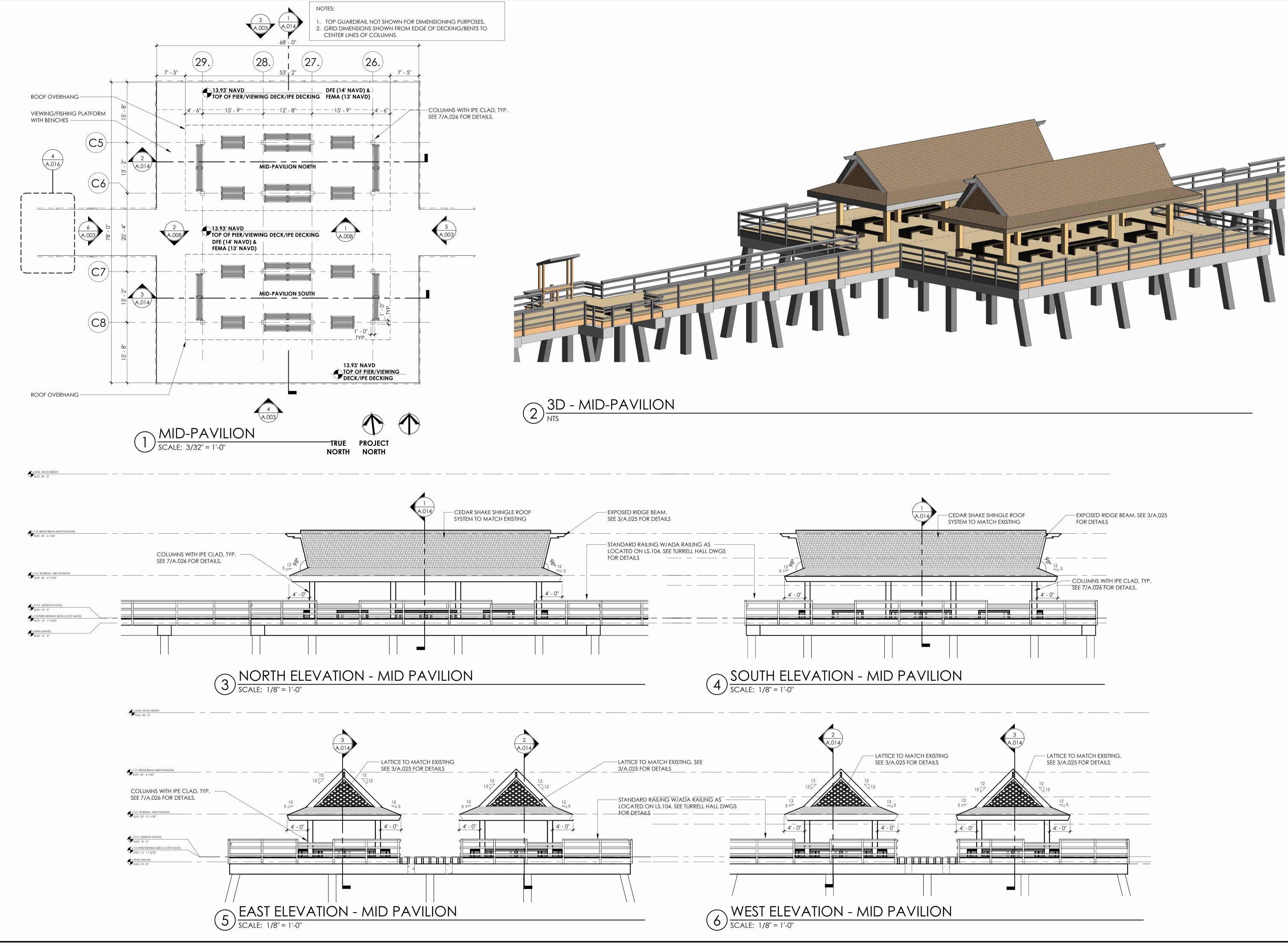


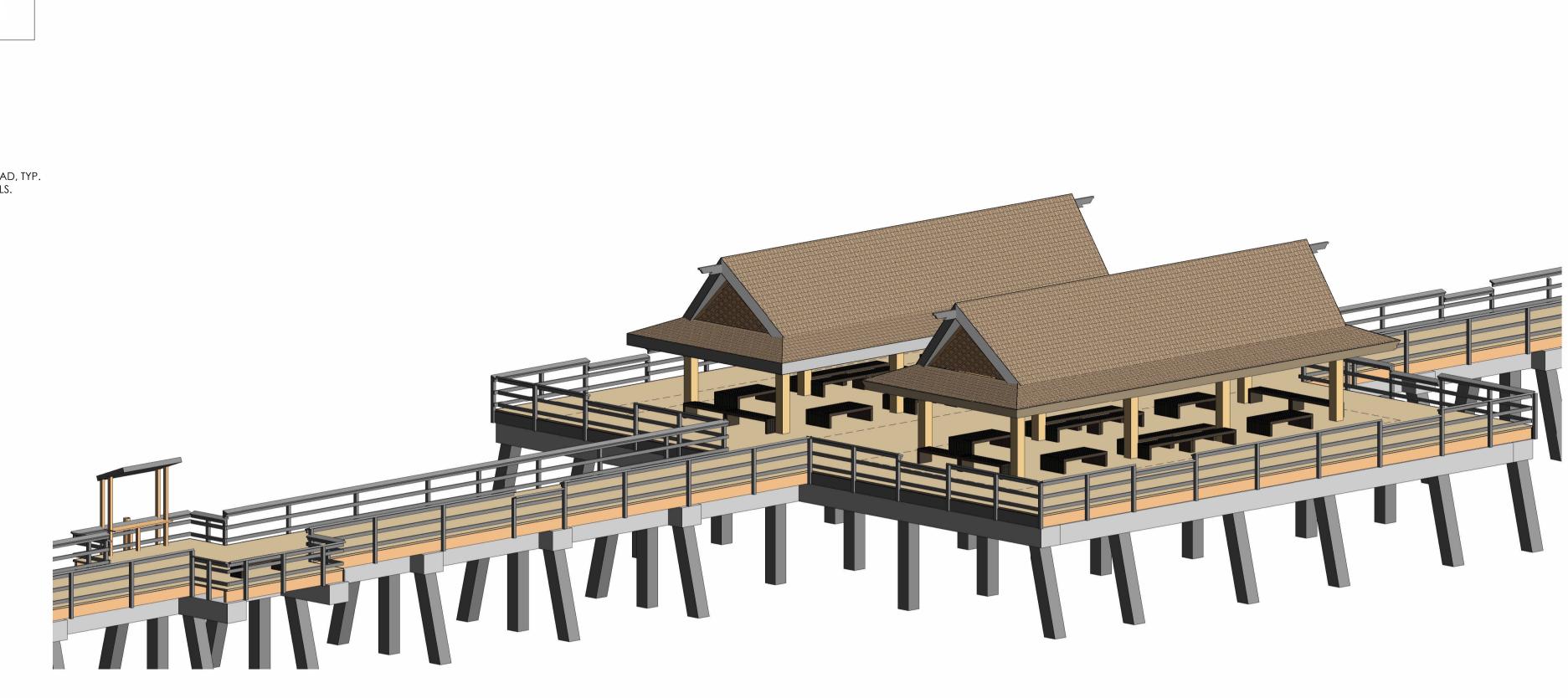
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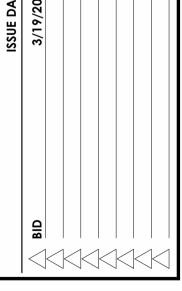






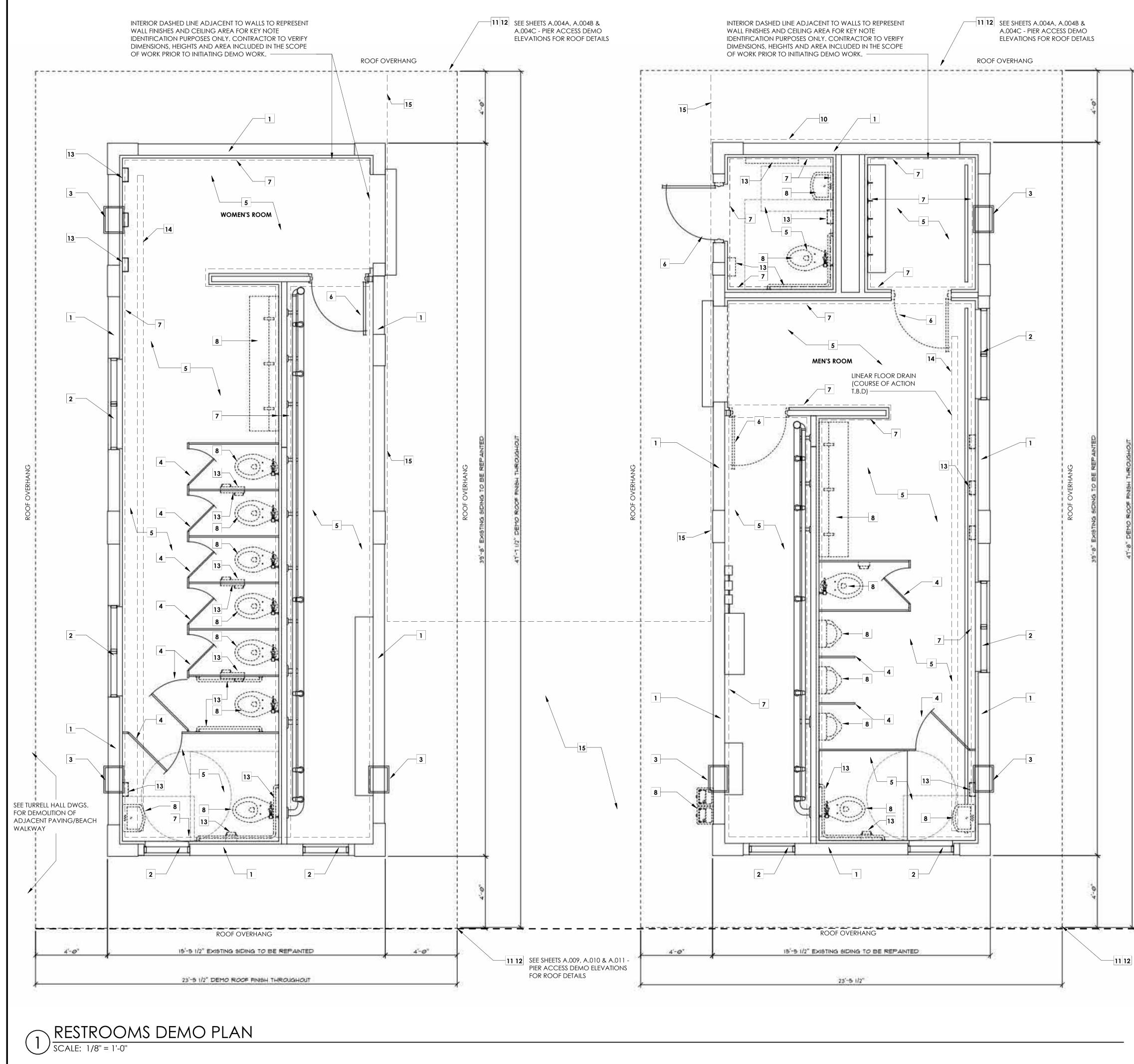








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DEMOLITION PLAN NOTES

1. EXISTING WALL STRUCTURE TO REMAIN.

2. EXISTING WINDOWS AND LOUVERED VENTS TO REMAIN (U.O.N). VERIFY VENTS FOR FUNCIONALITY AND OVERALL CONDITION

3. EXISTING FLOOD VENTS TO REMAIN.

4. EXISTING TOILET PARTITIONS TO REMAIN.

5. REMOVE FLOOR FINISHES COMPLETE. (BASE BID). EXISTING FLOOR FINISHES TO REMAIN (ALTERNATE BID) 6. REMOVE DOOR AND FRAME COMPLETE.

7. REMOVE INTERIOR WALL FINISHES AND ASSOCIATED BACKING BELOW IPE WAINSCOT COMPLETE. (BASE

BID). EXISTING WALL FINISH/BACKING BELOW IPE TO REMAIN (ALTERNATE BID)

8. REMOVE PLUMBING FIXTURES COMPLETE.

9. NOT USED.

10. REMOVE EXISTING EXTERIOR FINISH AND ASSOCIATED BACKING COMPLETE.

11. REMOVE EXISTING ROOF SHINGLES COMPLETE.

12. REMOVE ANY ROOFING UNDERLAYMENT, BLOCKING OR INSULATION WITH SIGNS OF DECAY OR DAMAGE, COVER EXPOSED SURFACE TO PROTECT ROOF STRUCTURE AND INTERIOR OF BUILDING FROM POTENTIAL DAMAGE DUE TO WEATHER EXPOSURE OR UNATHORIZED ACCESS.

13. REMOVE BATHROOM ACCESORIES COMPLETE.

14. EXISTING LINEAR FLOOR DRAIN TO BE REMOVED AND REPLACED.

15. REMOVE EXISTING WOOD DECKING AND PAVING BETWEEN RESTROOM BUILDINGS.

GENERAL DEMOLITION NOTES

1. FOR THE DEMOLITION OF THE EXISTING PIER STRUCTURE, EXISTING PIER BUILDINGS AND STRUCTURES, INCLUDING BEACH STAIRS AND DECKING, SEE MARINE ENGINEER DRAWINGS.

2. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. FIELD VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND LOCATIONS PRIOR TO STARTING WORK. REPORT ANY DISCREPANCIES TO ARCHITECT. DEMOLITION DRAWINGS TO BE CROSSED CHECKED WITH PROPOSED DESIGN INTENT.

3. ALL WORK OUTLINED SHALL STRICTLY CONFORM TO ALL APPLICABLE CODES AND ORDINANCES, IN THE EVENT OF A CONFLICT THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE MET.

4. DEMOLITION PLANS ARE INTENDED TO INDICATE GENERAL DEMOLITION REQUIREMENTS. PROVIDE ADDITIONAL DEMOLITION AS REQUIRED BY NEW CONSTRUCTION WHETHER SHOWN OR NOT WTH WRITTEN PERMISSION OF ARCHITECT.

5. REMOVE EXISTING CONSTRUCTION/BUILDING ELEMENTS INDICATED WITH "DASHED" OR 'BROKEN" LINES UNLESS NOTED OTHERWISE.

6. PROTECT ADJACENT SPACES AND PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.

7. WHERE REMOVAL OF ITEMS LEAVES HOLES AND/OR DAMAGED SURFACES THAT WILL EXPOSED IN FINISHED WORK, PATCH AND REPAIR AS INDICATED ON CONSTRUCTION DOCUMENTS.

8. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REMOVAL/RELOCATION OF ITEMS PERTAINING THESE AREAS OF WORK.

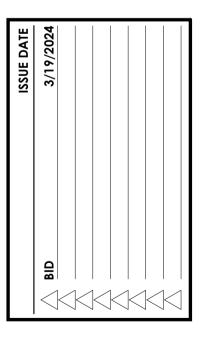
9. EXISTING DRAINS, WATER LINES, AND ELECTRICAL STUBOUTS ARE TO BE CAPPED, IF NOR REUSED.10. PROVIDE REQUIRED SHORING TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING BUILDINGS TO REMAIN.

ARCHITECTURI



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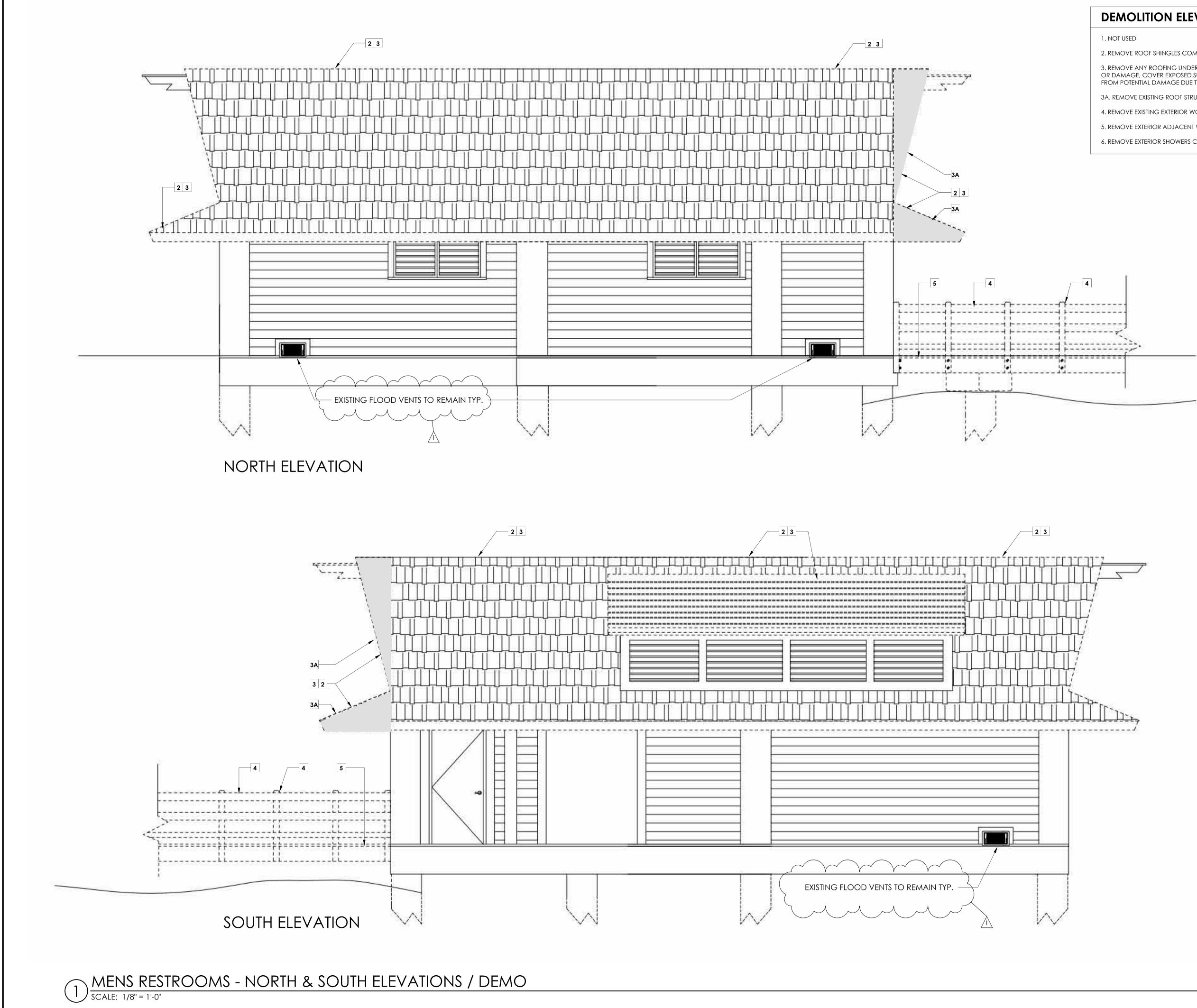


PIER ACCESS
DEMO PLAN

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EAST LIMIT OF DEMOLITION (DECKING/PAVING) THIS PROJECT

11 12 SEE SHEETS A.009, A.010 & A.011 -PIER ACCESS DEMO ELEVATIONS FOR ROOF DETAILS



DEMOLITION ELEVATION NOTES

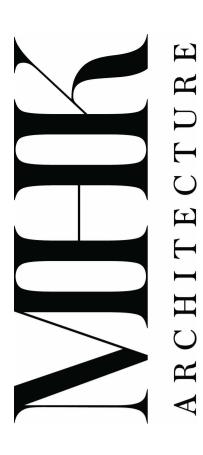
2. REMOVE ROOF SHINGLES COMPLETE.

3. REMOVE ANY ROOFING UNDERLAYMENT, BLOCKING OR INSULATION WITH SIGNS OF DECAY OR DAMAGE, COVER EXPOSED SURFACE TO PROTECT ROOF STRUCTURE AND INTERIOR OF BUILDING FROM POTENTIAL DAMAGE DUE TO WEATHER EXPOSURE OR UNAUTHORIZED ACCESS.

3A. REMOVE EXISTING ROOF STRUCTURE THAT IS NOT REQUIRED WHEN NEW ROOF STRUCTURE IS BUILT.

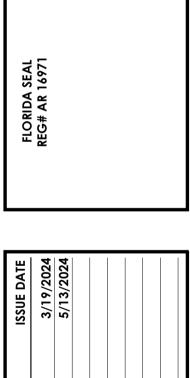
- 4. REMOVE EXISTING EXTERIOR WOODEN POST AND RAILING COMPLETE.
- 5. REMOVE EXTERIOR ADJACENT WOOD DECK.

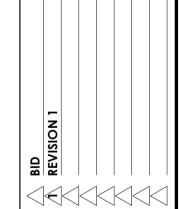
6. REMOVE EXTERIOR SHOWERS COMPLETE / EXISTING SHOWERS TO BE REINSTALLED OVER NEW DECKING.





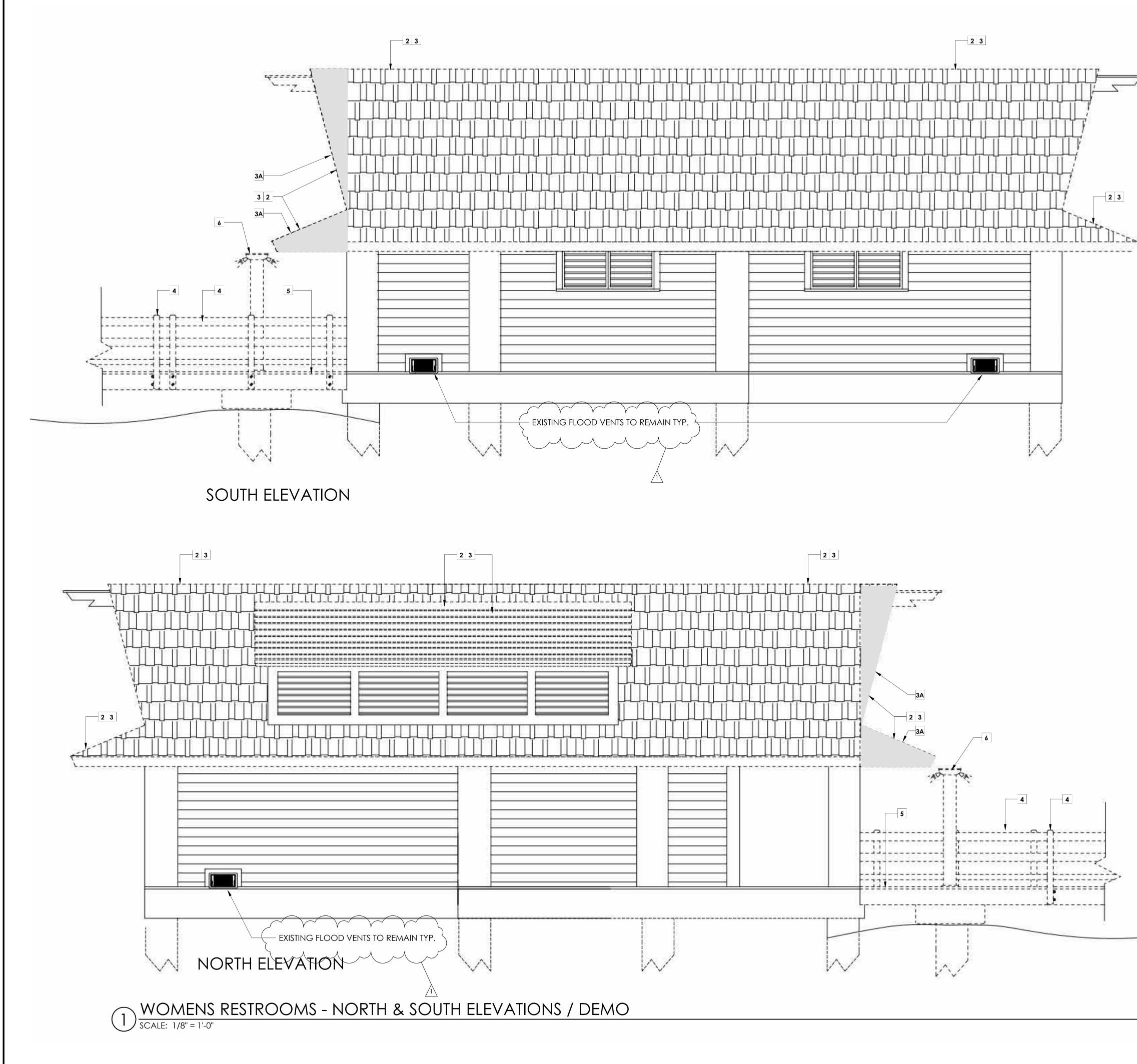
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DEMOLITION ELEVATION NOTES

1. NOT USED

2. REMOVE ROOF SHINGLES COMPLETE.

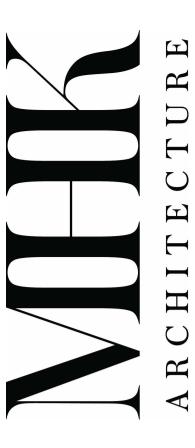
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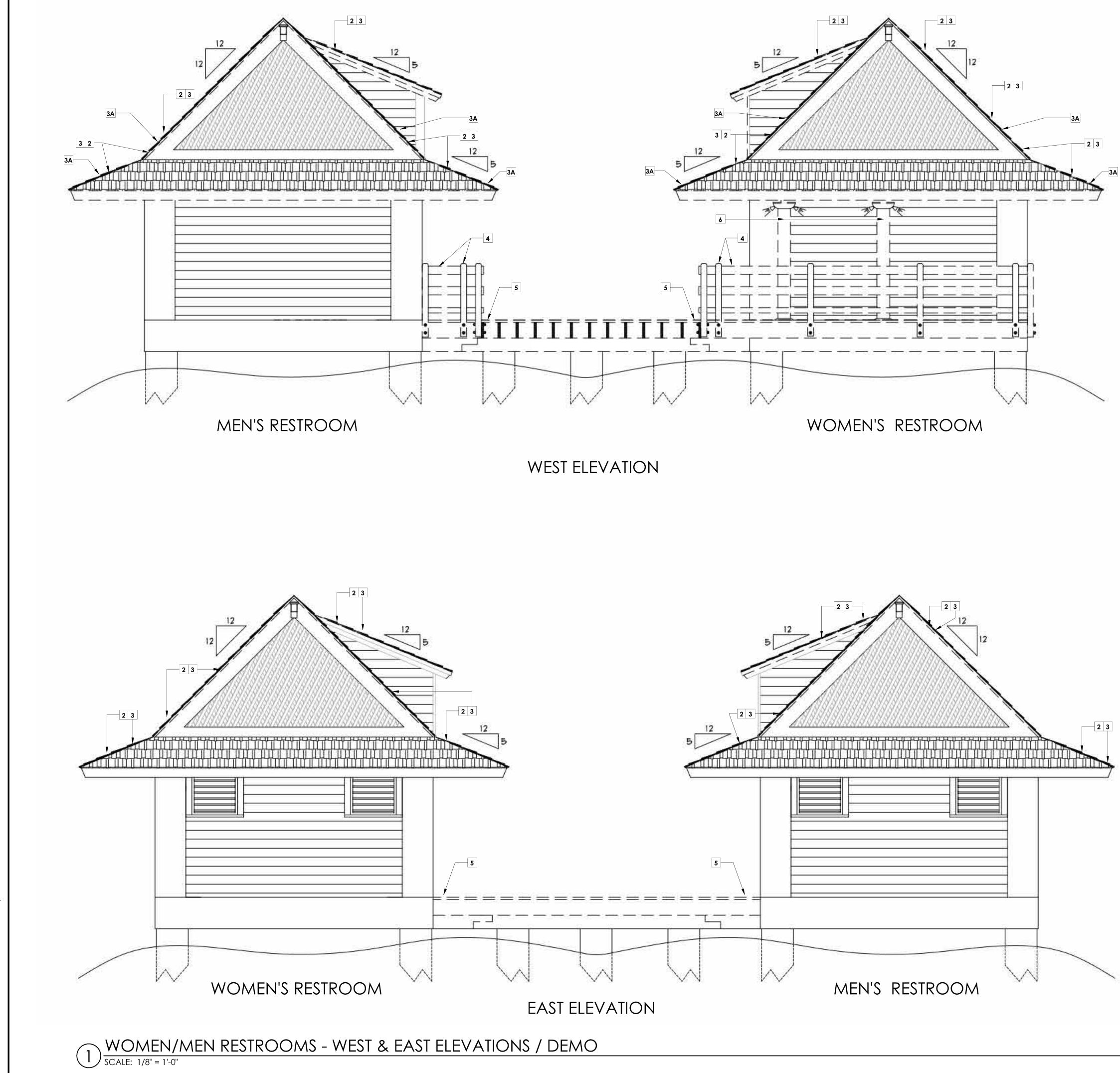


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FLORIDA SEAL REG# AR 16971

PIER ACCESS
DEMO -
ELEVATIONS

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DEMOLITION ELEVATION NOTES

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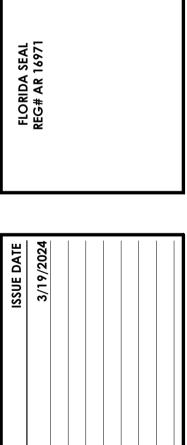
5. REMOVE EXTERIOR ADJACENT WOOD DECK.

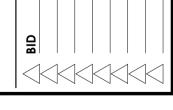
6. REMOVE EXTERIOR SHOWERS COMPLETE / EXISTING SHOWERS TO BE REINSTALLED OVER NEW DECKING.





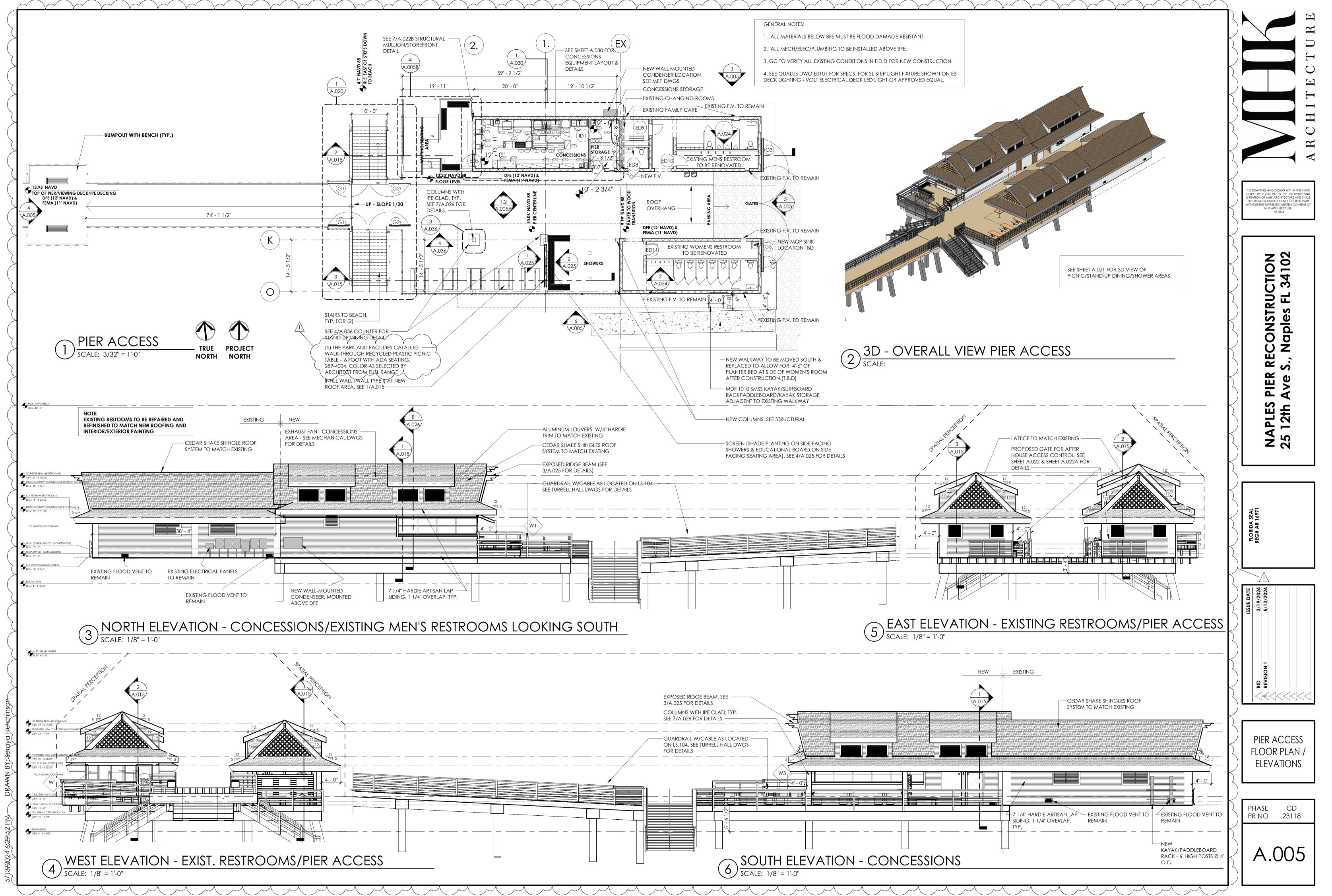
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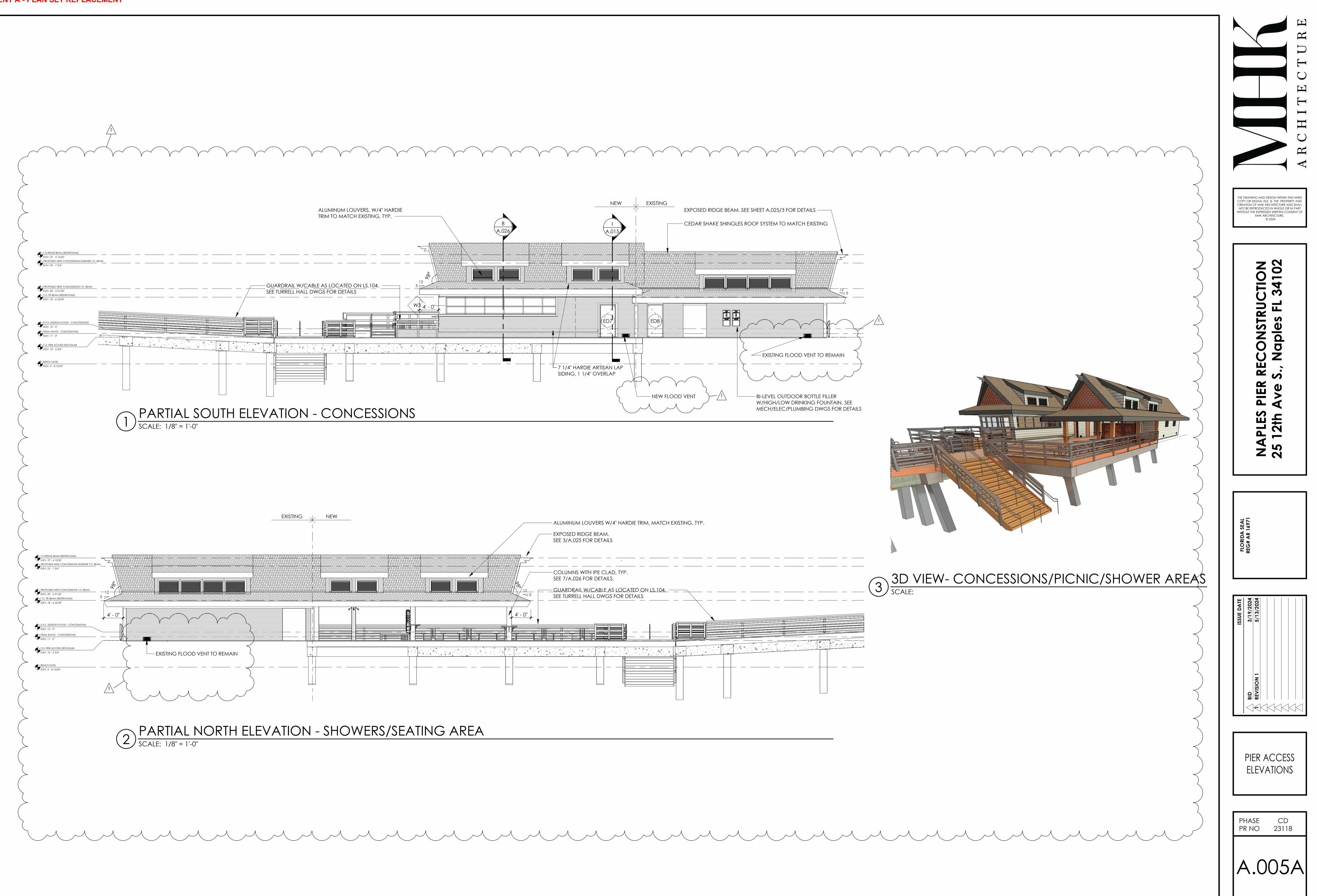




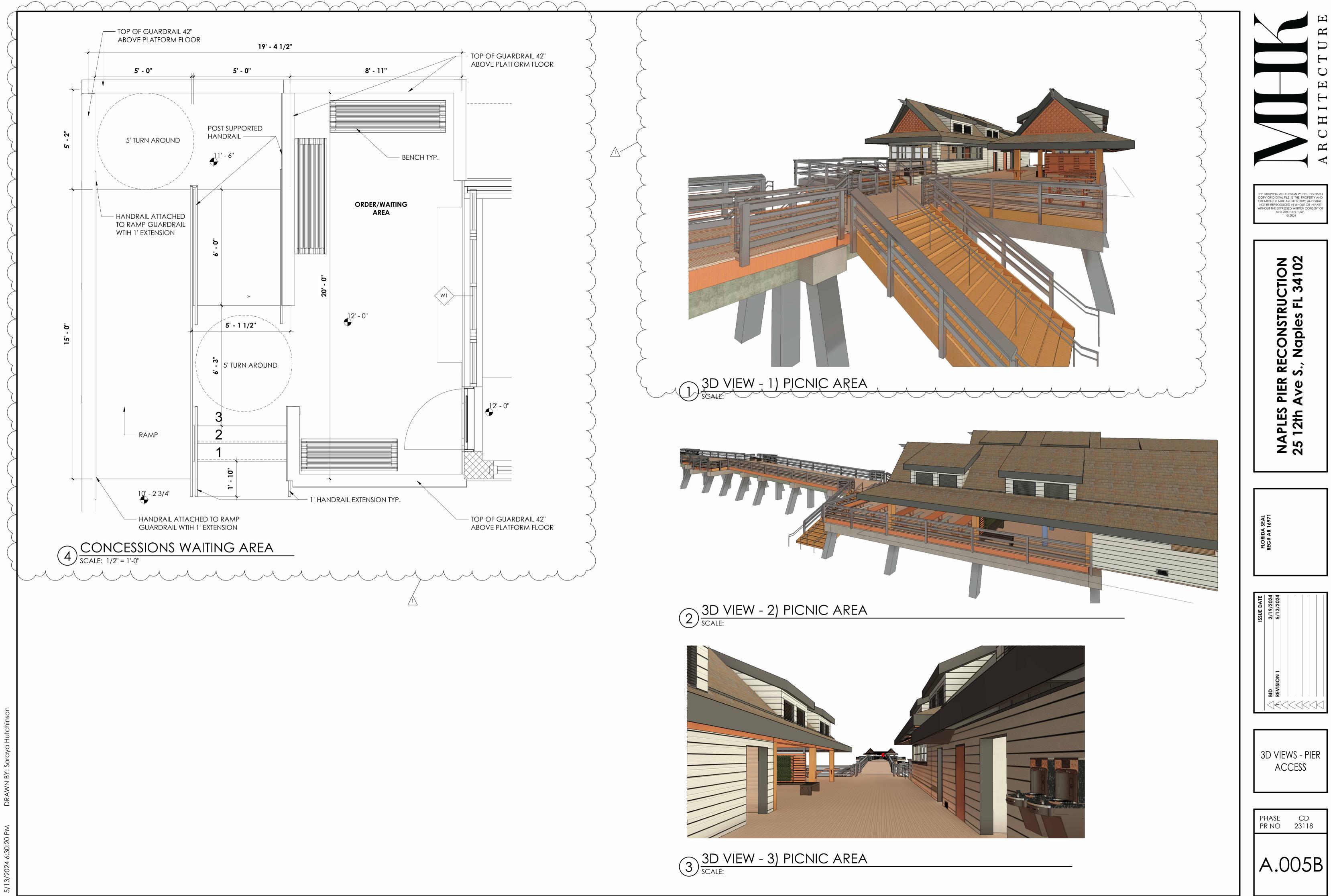
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DEMO -
ELEVATIONS

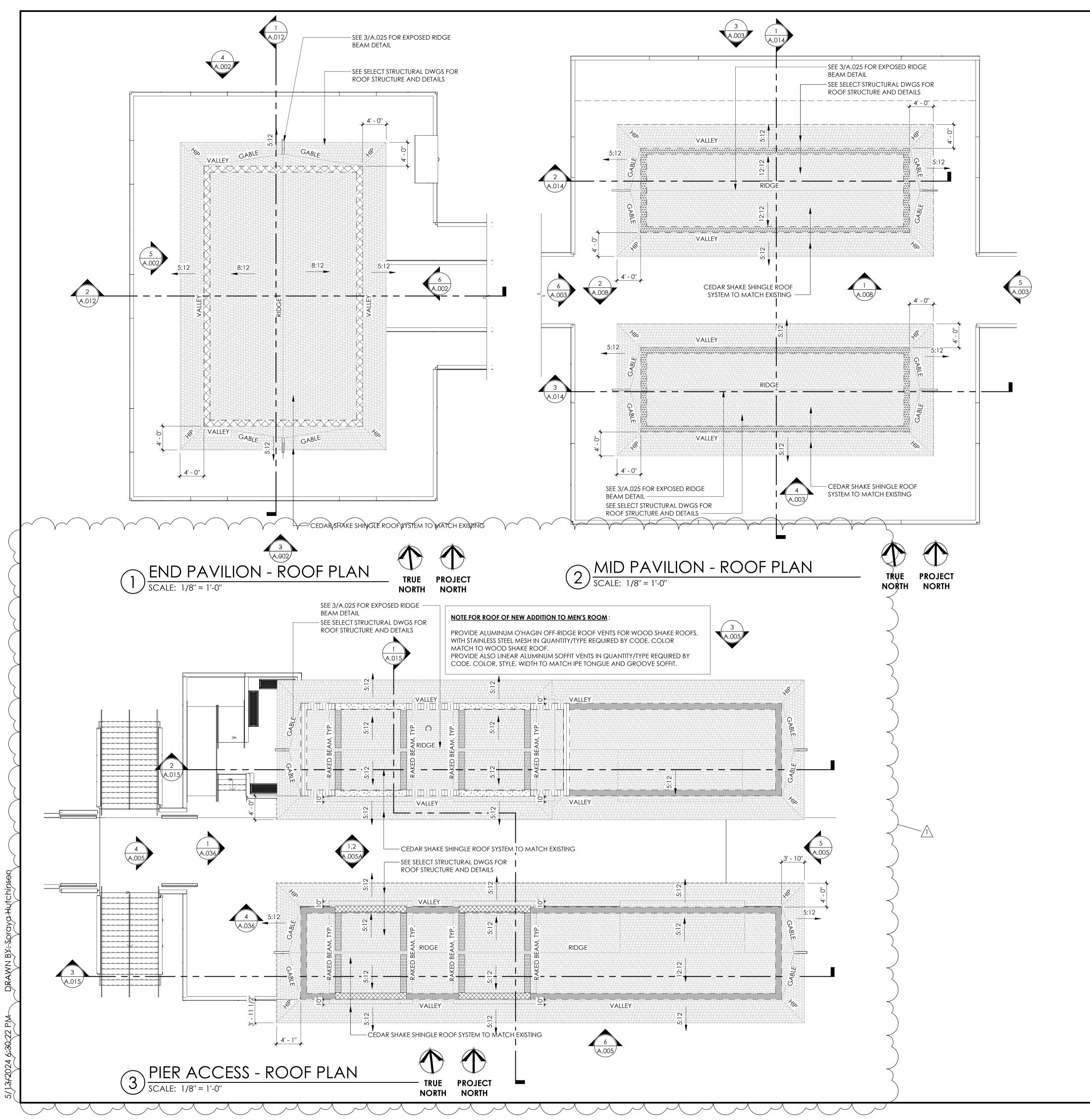
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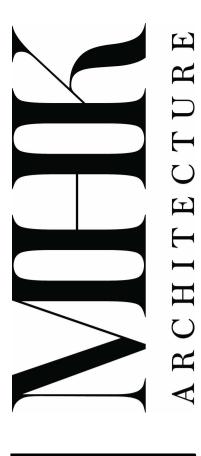






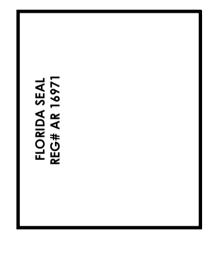


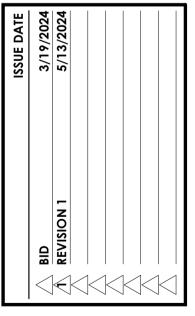
GENERAL NOTES					
OF EXISTING BUILDING. BASIS OF DESIGN: CEDAR SHAKE SHINGLE S CEDAR SHAKE SHINGLES; CCA TREATED CE (MECH. ATTACHED AND TO MATCH EXISTIN	EDAR SHAKES SPLIT AND RESAWN 24" x 3/4" MEDIUM NG) WITH 1X6 NAILING STRIPS, 2X4 SPACERS, SIKLASTIC NG PER STRUCTURAL DRAWINGS SIMILAR TO DETAILS				
BEAM HEIGHT LEGEND					
DESCRIPTION	DESCRIPTION				
TOP OF BEAM AT END PAVILION = 25'- 3 5/32''					
TOP OF BEAM AT MID PAVILION = 22'- 3 11/32''					
TOP OF BEAM AT EXISTING MENS/WOMENS RESTROOMS, SHOWERS, O.D. DINING = 18'-6 23/32''					
TOP OF BEAM AT DORMERS = 23'-1 7/32''					
T.O. BEAM AT NEW CONCESSIONS DORMER = 25'-7 3/4''					
T.O. BEAM AT NEW CONCESSIONS = 20'-3 31/32"					





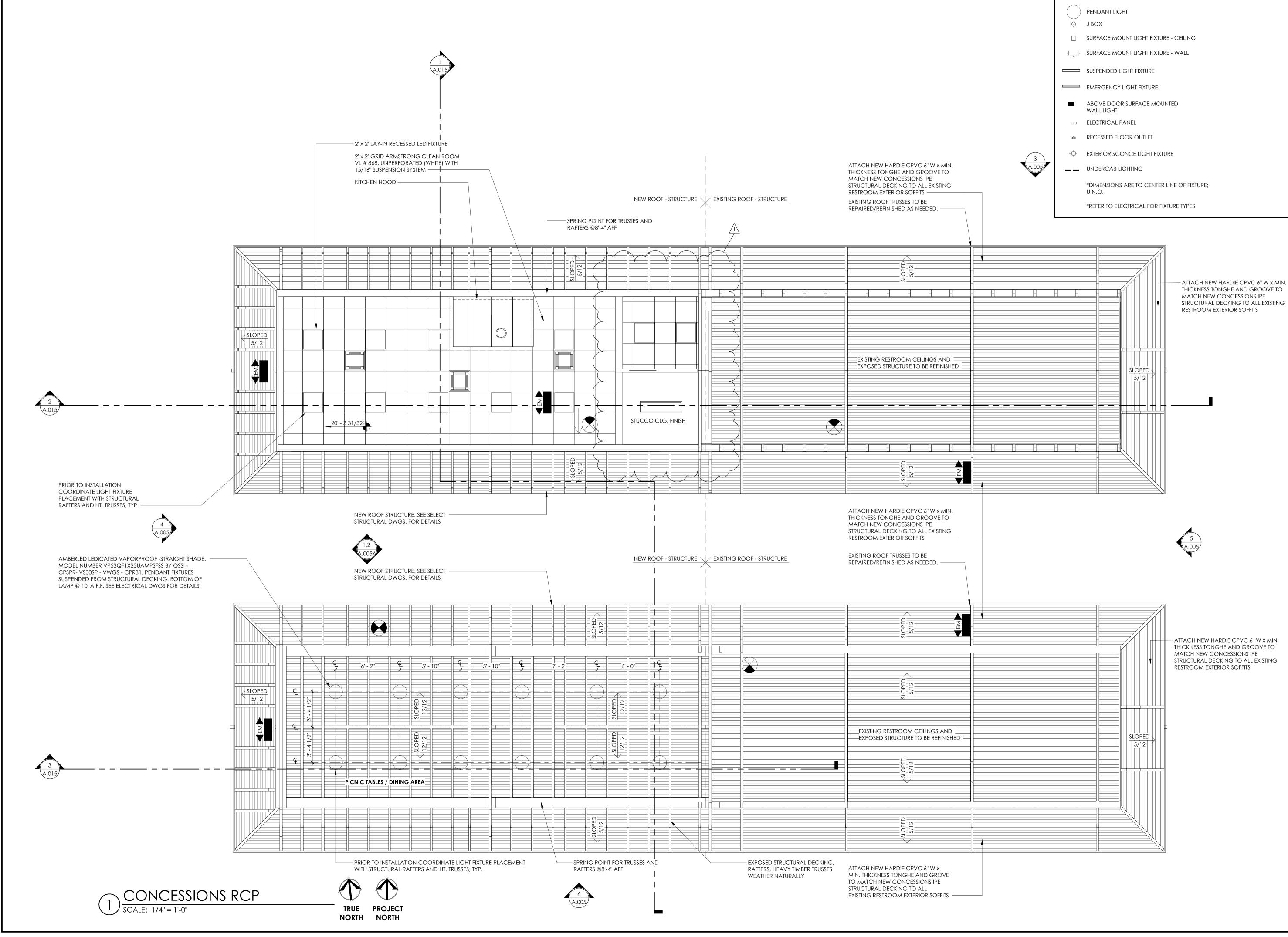


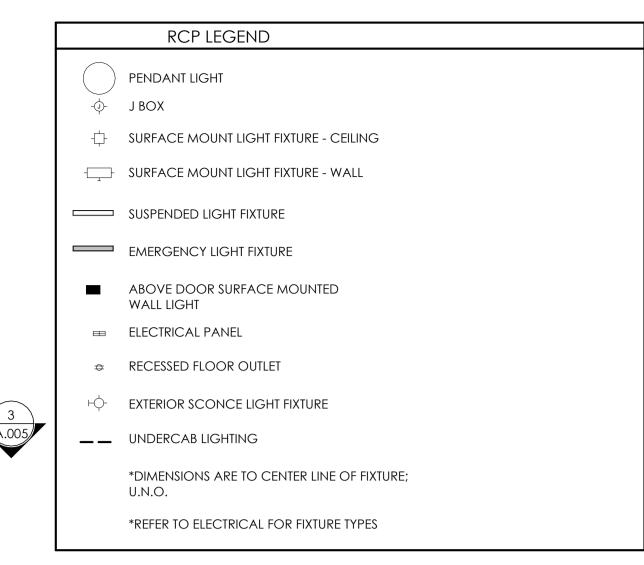




roof plans

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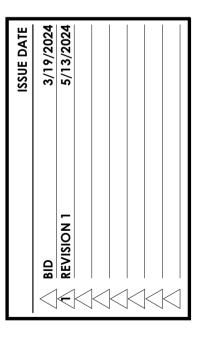
- ATTACH NEW HARDIE CPVC 6" W x MIN. THICKNESS TONGHE AND GROOVE TO MATCH NEW CONCESSIONS IPE STRUCTURAL DECKING TO ALL EXISTING

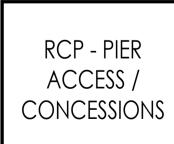


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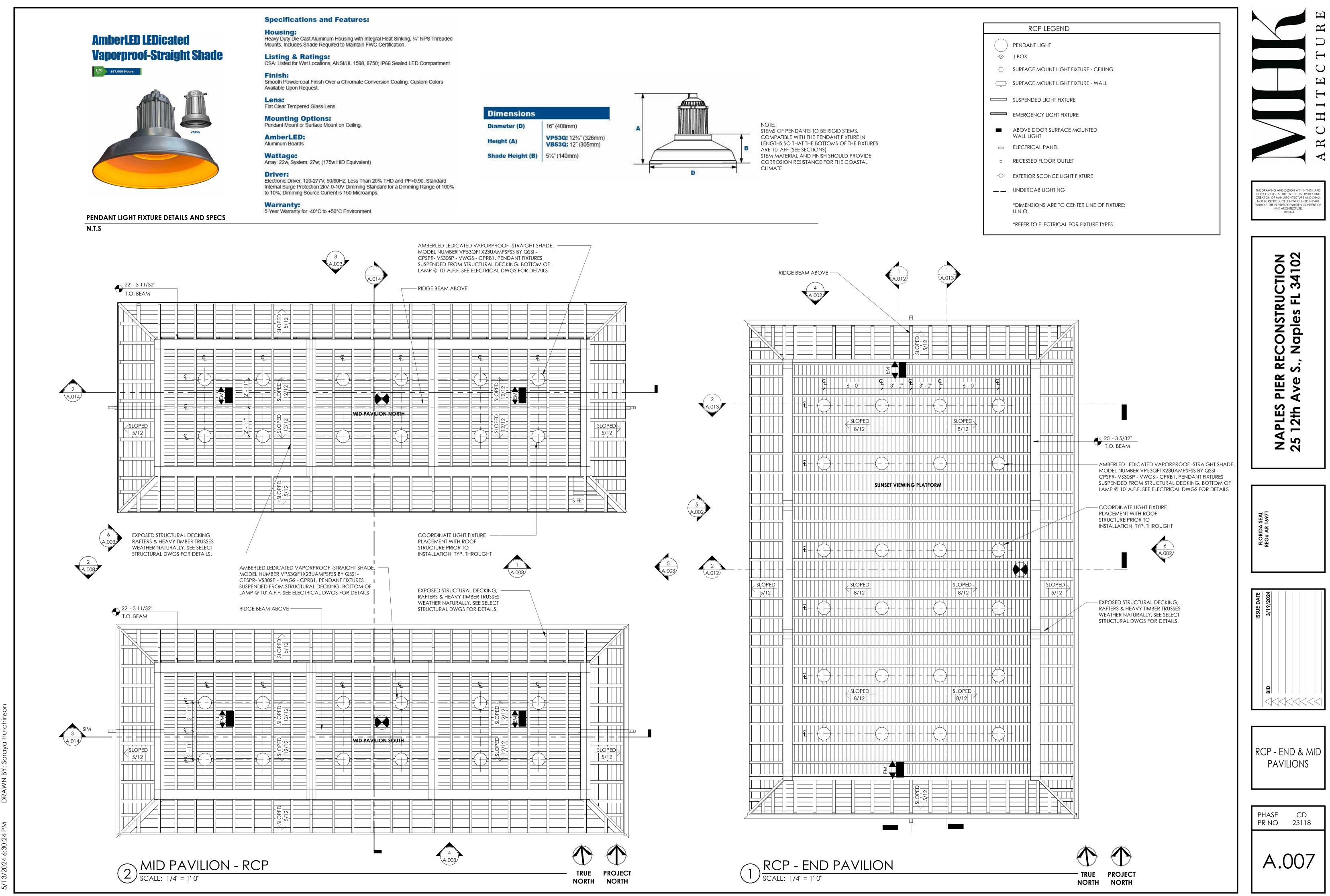
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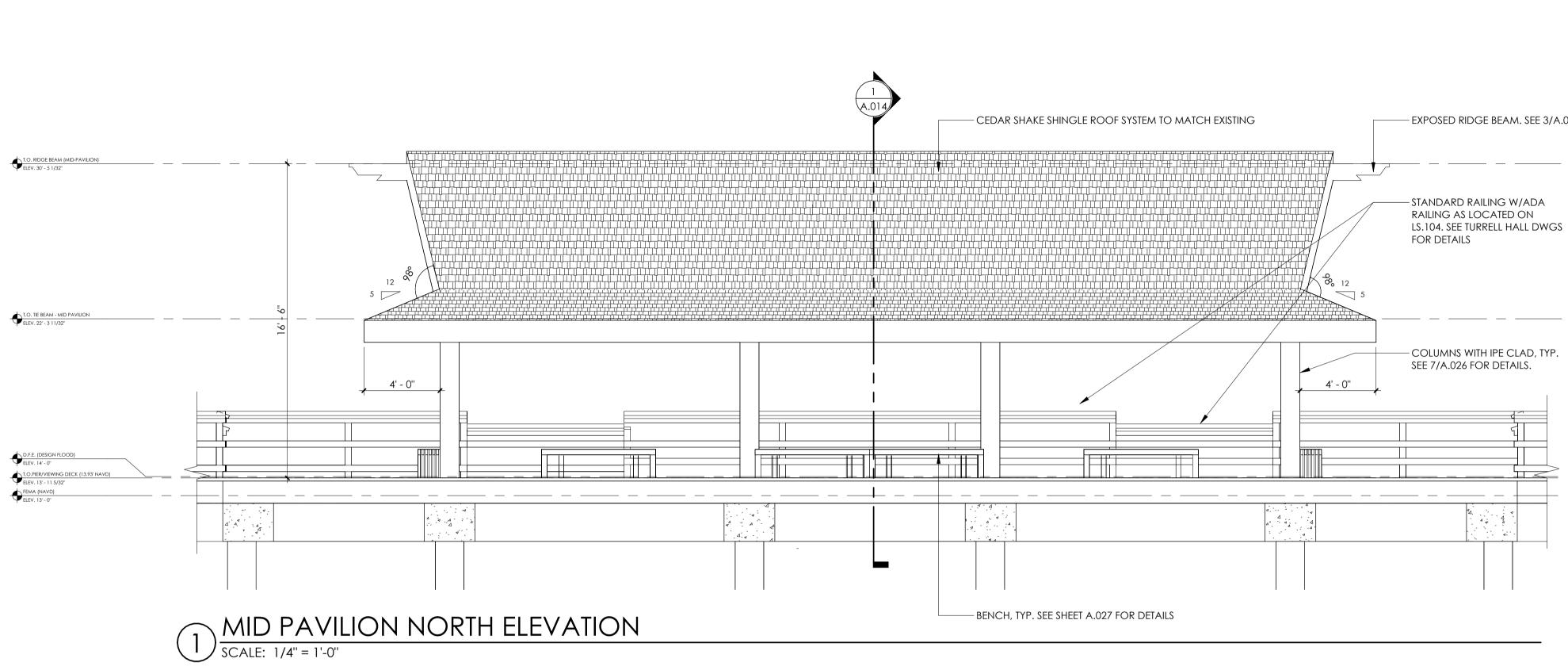
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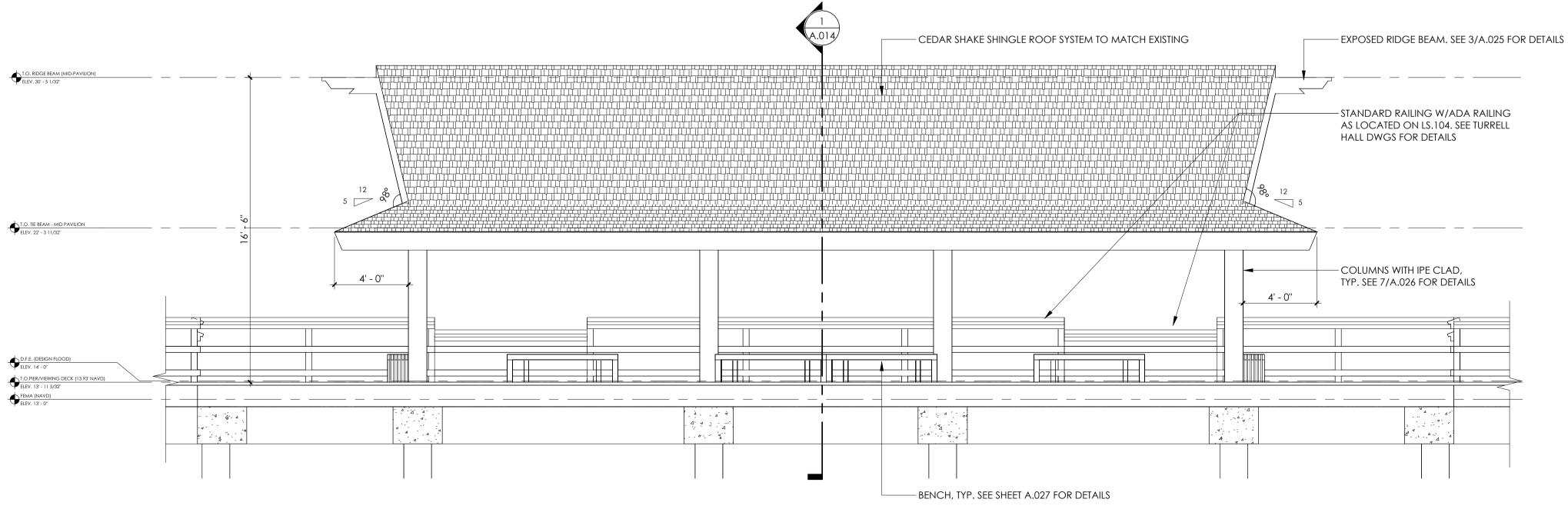
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MAX. NAVD HEIGHT

HAX. NAVD HEIGHT



2 MID PAVILION SOUTH ELEVATION SCALE: 1/4" = 1'-0"

- EXPOSED RIDGE BEAM. SEE 3/A.025 FOR DETAILS

M

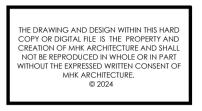
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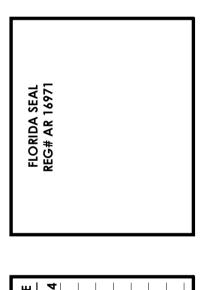
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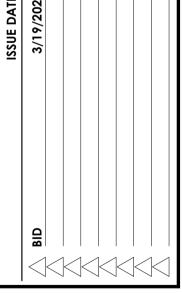
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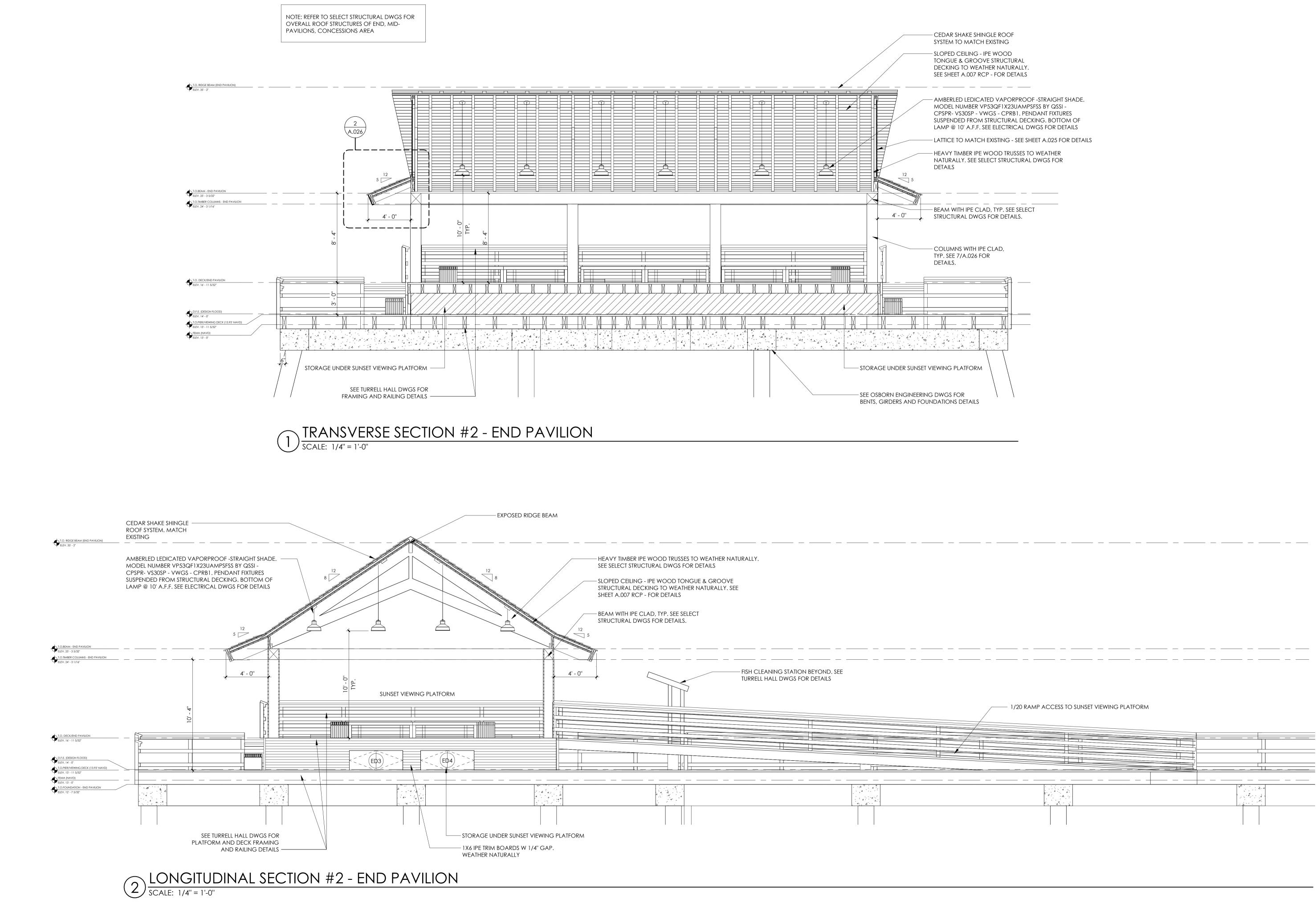
CTION . 34102 CONSTRUC RE(S., | PIER Ave NAPLES 25 12th /





MID-PAVILION ELEVATIONS

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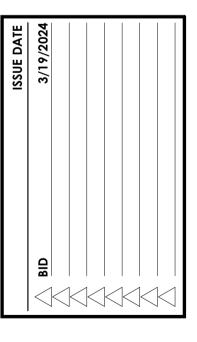
10				
12 8				
		BEAM WITH IPE CLAD, TYP. SEE SELECT STRUCTURAL DWGS FOR DETAILS.		
	4'-0"		FISH CLEANING STATION BEYOND. SEE TURRELL HALL DWGS FOR DETAILS	
				/
				<u> </u>

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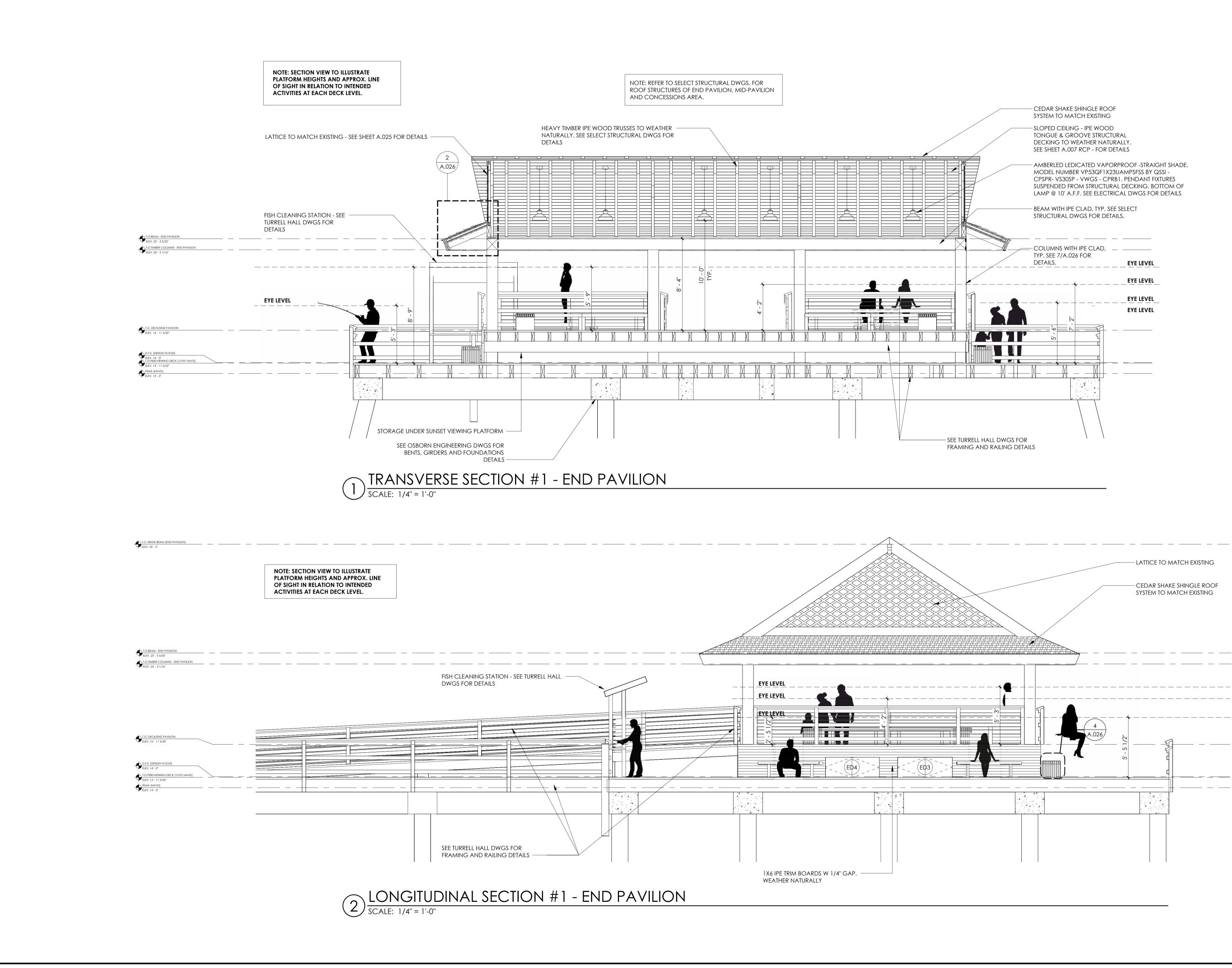
CTION . 34102 CONSTRUC Naples FL RE(S., | PIER Ave NAPLES 25 12th /

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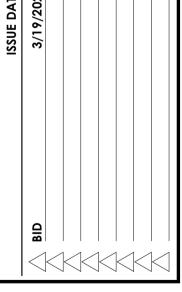
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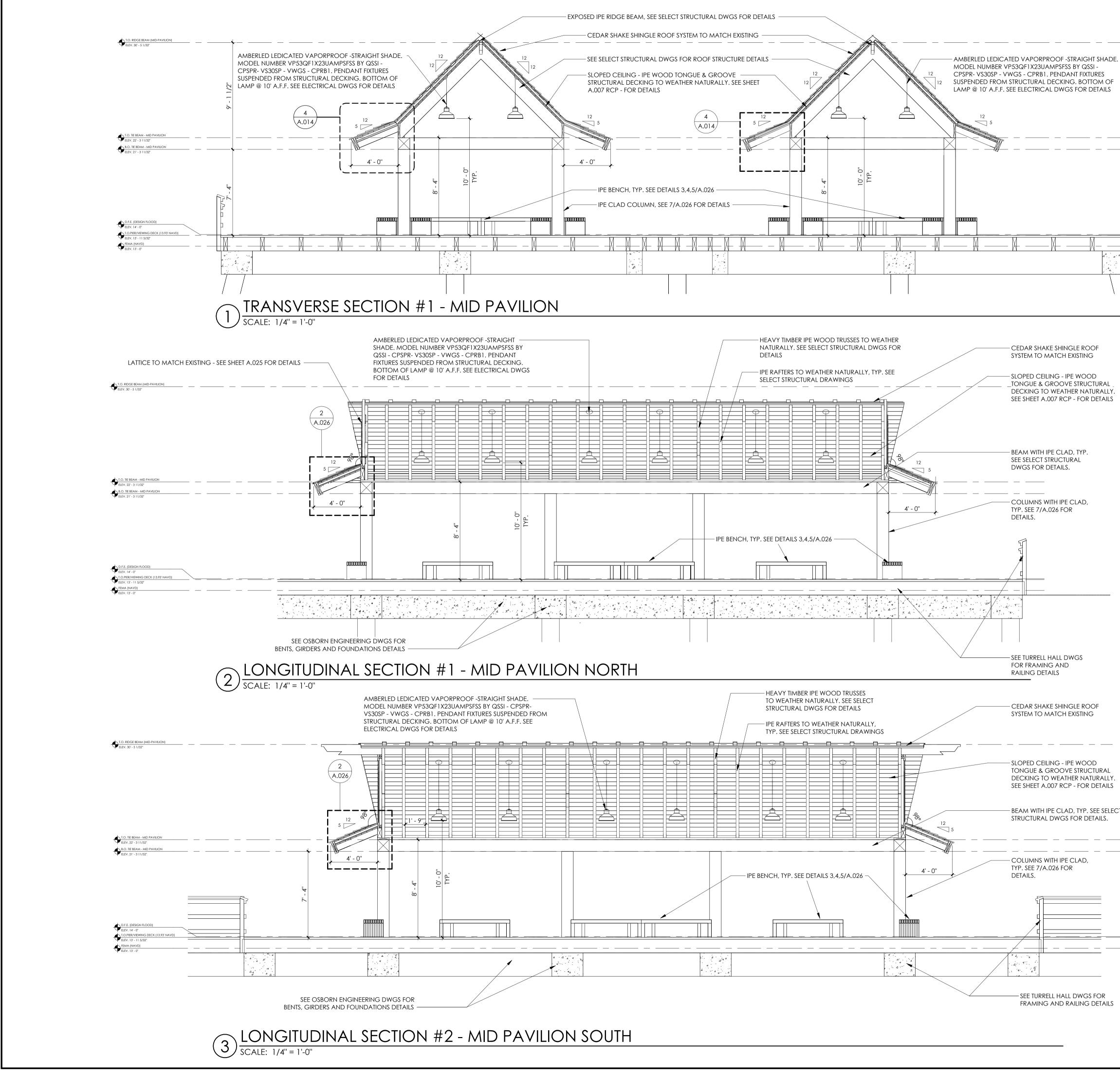
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FLORIDA SEAL REG# AR 16971



END PAVILION SECTIONS

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D URAL JRALLY. JETAILS	IPE RAFTER. SEE SELECT STRUCTURAL DWGS FOR DETAILS CEDAR SHAKE SHINGLES ROOF SYSTEM 1" x 6" NAILING STRIPS 2" x 4" SPACERS SIKALASTIC 621 TC 85 MIL FULLY ADHERED ROOF SYSTEM (OR SIMILAR) PLYWOOD SHEATHING PER STRUCTURAL DWGS	NAPLES PIER RECONSTRUCTION 25 12th Ave S., Naples FL 34102
	(2)2X STRUCTURAL WOOD FASCIA 1'x 6" TONGUE AND GROOVE IPE CEILING DECKING 3x6 IPE OUTLOOKER IPE CLAD WOODEN COLUMN AND BEAM. SEE SELECT STRUCTURAL DWGS AND SHEET A.026 FOR DETAILS OUTLOOKER – IPE RAFTER DETAIL SCALE: 3/4" = 1'-0"	FLORIDA SEAL REG# AR 16971
DF URAL JRALLY. DETAILS EE SELECT AILS. 		ISSUE DATE BID 3/19/2024
		MID PAVILION SECTIONS
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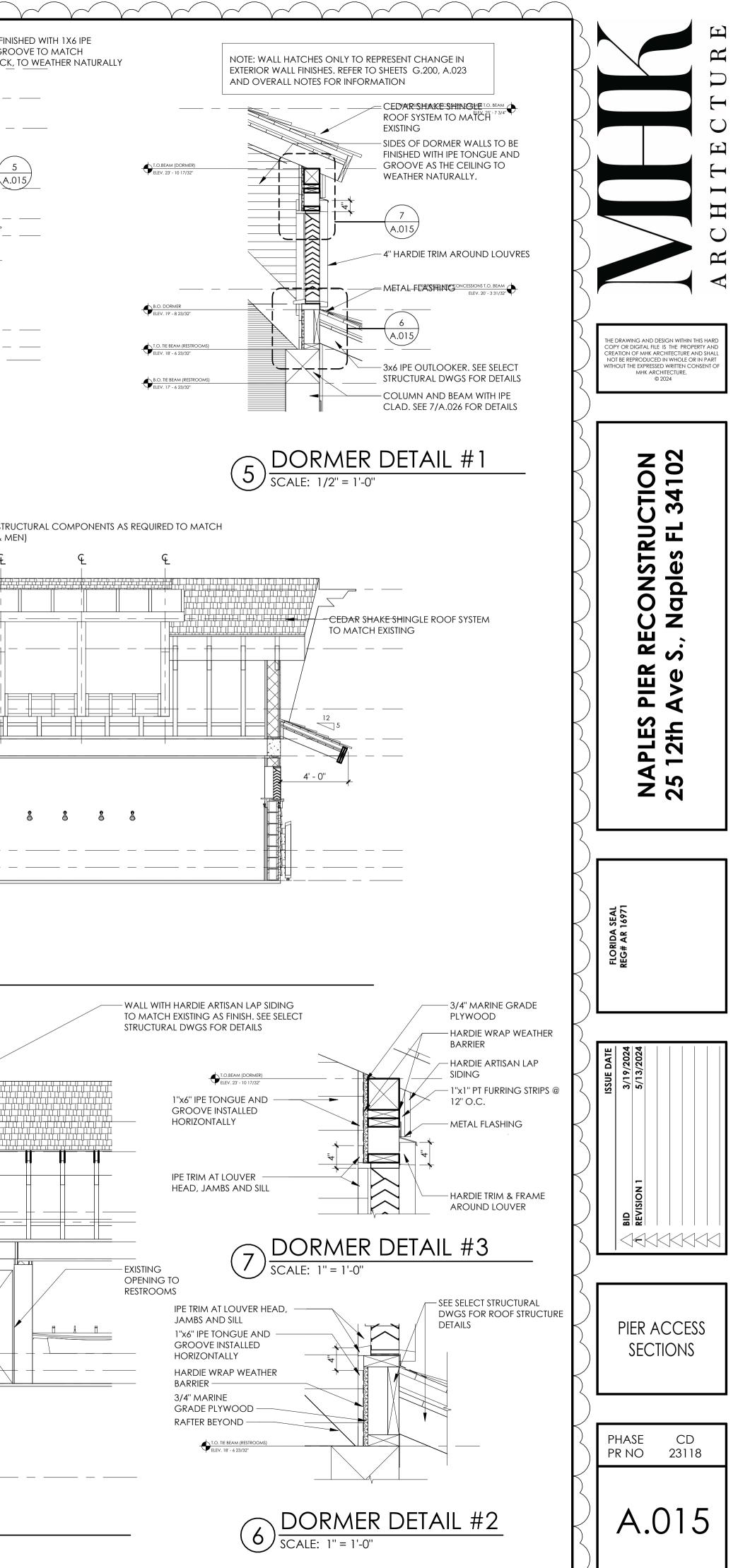
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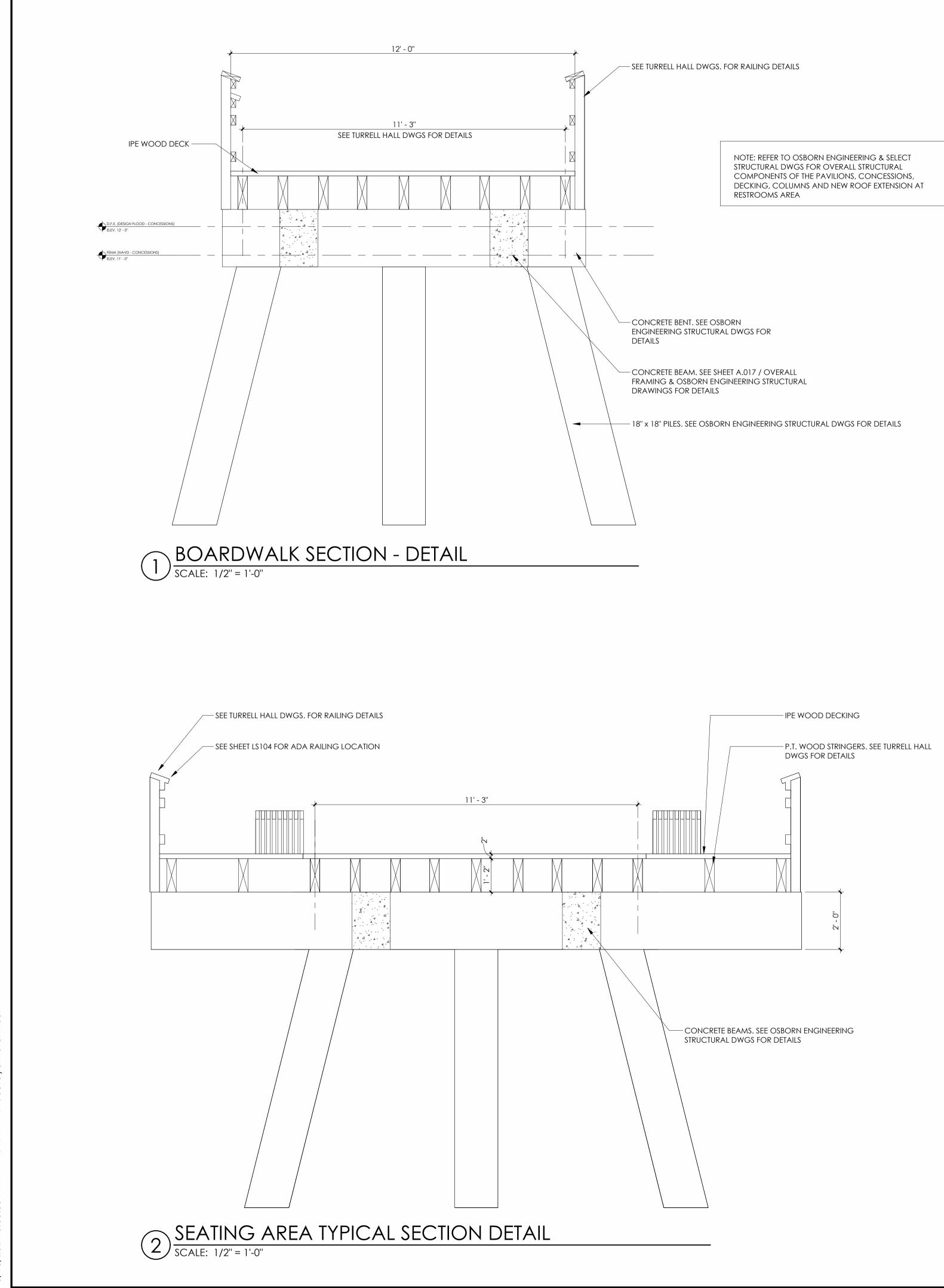
			EXPOSED RIDGE BEAM	12		EXPOSED RIDGE BEAM	DORMER SIDES FIN
$\left\langle \right\rangle$	GENERAL NOTES:	ELEV. 27' - 4 15/32"		5	IPE RAFTERS WEATHER NATURALLY. SEE SELECT STRUCTURAL DWGS FOR DETAILS CEDAR SHAKE SHINGLE ROOF	5-12	TONGUE AND GRC STRUCTURAL DECK
	1. REFER TO SELECT STRUCTURAL DWGS FOR ROOF TRUSSES , RAFTERS, SPACING AND OVERALL STRUCTURAL COMPONENTS OF THE PAVILIONS, CONCESSIONS AND NEW ROOF EXTENSION AT RESTROOMS	PROPOSED NEW CONCESSIONS DORMER T.O. BEA			SYSTEM TO MATCH EXISTING		
$\left(\right)$	AREA. 2. GC TO VERIFY ALL EXISTING CONDITIONS IN FIELD FOR NEW	ELEV. 23' - 10 17/32'			CALCULATIONS		
		PROPOSED NEW CONCESSIONS T.O. BEAM ELEV. 20' - 3 31/32"			7 1/4" HARDIE ARTISAN LAP SIDING, 1 1/4"		
		• ELEV. 20' - 3 31/32" • T.O. TIE BEAM (RESTROOMS) ELEV. 18' - 6 23/32"					
		B.O. TIE BEAM (RESTROOMS) ELEV. 17' - 6 23/32''			9 SIM. 4'	- 0"	
					A.026		
		D.F.E. (DESIGN FLOOD - CONCESSIONS)				SHOWERS	
		ELEV. 12'-0" FELV. (NAVD - CONCESSIONS) ELEV. 11'-0"					
		T.O. PIER ACCESS DECK/SLAB ELEV. 10' - 2 3/4"					
2				SEE SELECT STRUCTURAL			
$\left\{ \right\}$			TRAN	SVERSE SECTION #1	- PIER ACCESS		
$\left(\right)$			SCALE: 1/	4'' = 1'-O''			
$\left\langle \right\rangle$	CEDAR	SHAKE SHINGLE ROOF SYSTEM TO MATC	CH EXISTING SEE SELECT STR	UCTURAL DWGS FOR ROOF STRUCTURE DETAILS —	NEW		HINGLE ROOF AND AFFECTED STRU) RESTROOM UNITS (WOMEN & M
				E E		<u>ج</u>	Ę Ę
$\left\langle \right\rangle$							
$\left(\right)$							
$\left\langle \right\rangle$	CALCULATIONS						
	PROPOSED NEW CONCESSIONS T.O. BEAM						
	I.O. TIE BEAM (RESTROOMS) ELEV. 18' - 6 23/32'' B.O. TIE BEAM (RESTROOMS) ELEV. 17' - 6 23/32''						
$\left\langle \right\rangle$	2 SIM. A.026		W2				
	IPE'BENCH, TYP. SEE DETAILS 3,4,5/A.026				PIER STORAGE		8
$\left\langle \right\rangle$	D.F.E. (DESIGN FLOOD - CONCESSIONS) ELEV. 12 · 0' FEMA (NAVD - CONCESSIONS)						
	T.O. PIER ACCESS DECK/SLAB		·				
$\left\langle \right\rangle$	ELEV. 10' - 2 3/4" A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A B B B B B B B B B B B B B		SEE SELECT STRUCTURAL DRAWINGS FOR FLO ASSEMBLY	OR A A A A A A A A A A A A A A A A A A A		$\overline{\langle}$	
						$\left\langle \right\rangle$	
	$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\frac{1011001117}{SCALE: 1/4"} = 1'-0"$	$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 1$	MENS RESTROOMS /			
$\left\langle \right\rangle$				SEE SELE	ECT STRUCTURAL DWGS FOR ROOF AND	NEW	EXISTING
		CEDAR SHAR					
$\left(\right)$							
	PROPOSED NEW CONCESSIONS DORMER T.O. BEAM		IO WEATHER NATURALLY, TYP. SEE				
	T.O.BEAM (DORMER)	— — — — — — — — — — — — — — — — — — —	er ipe wood trusses to weather				
$\left(\begin{array}{c} \\ \\ \end{array} \right)$	B.O. DORMER ELEV. 19' - 8 23/32" PROPOSED NEW CONCESSIONS T.O. BEAM ELEV. 20' - 3 31/32"		SEE SELECT STRUCTURAL DWGS FOR				
\geq	I.O. TIE BEAM (RESTROOMS)						
Echinsc	B.O. TIE BEAM (RESTROOMS) ELEV. 17 - 6 23/32"		PE CLAD, TYP. SEE SELECT DWGS FOR DETAILS.				
ya Hui			/ITH IPE CLAD, TYP.			SHOWERS AREA	
Sord							
MN BY	FEMA (NAVD - CONCESSIONS)						
DRA	Lo. PIER ACCESS DECK/SLAB						
			2		A.026		
30:36 r	BEACH LEVEL			<u>•</u> +			
424 A	3 LONGITUDINAL S	SECTION #2 - SH	HOWER AREA / PI	ER ACCESS			
51)342	SCALE: 1/4" = 1'-0"						
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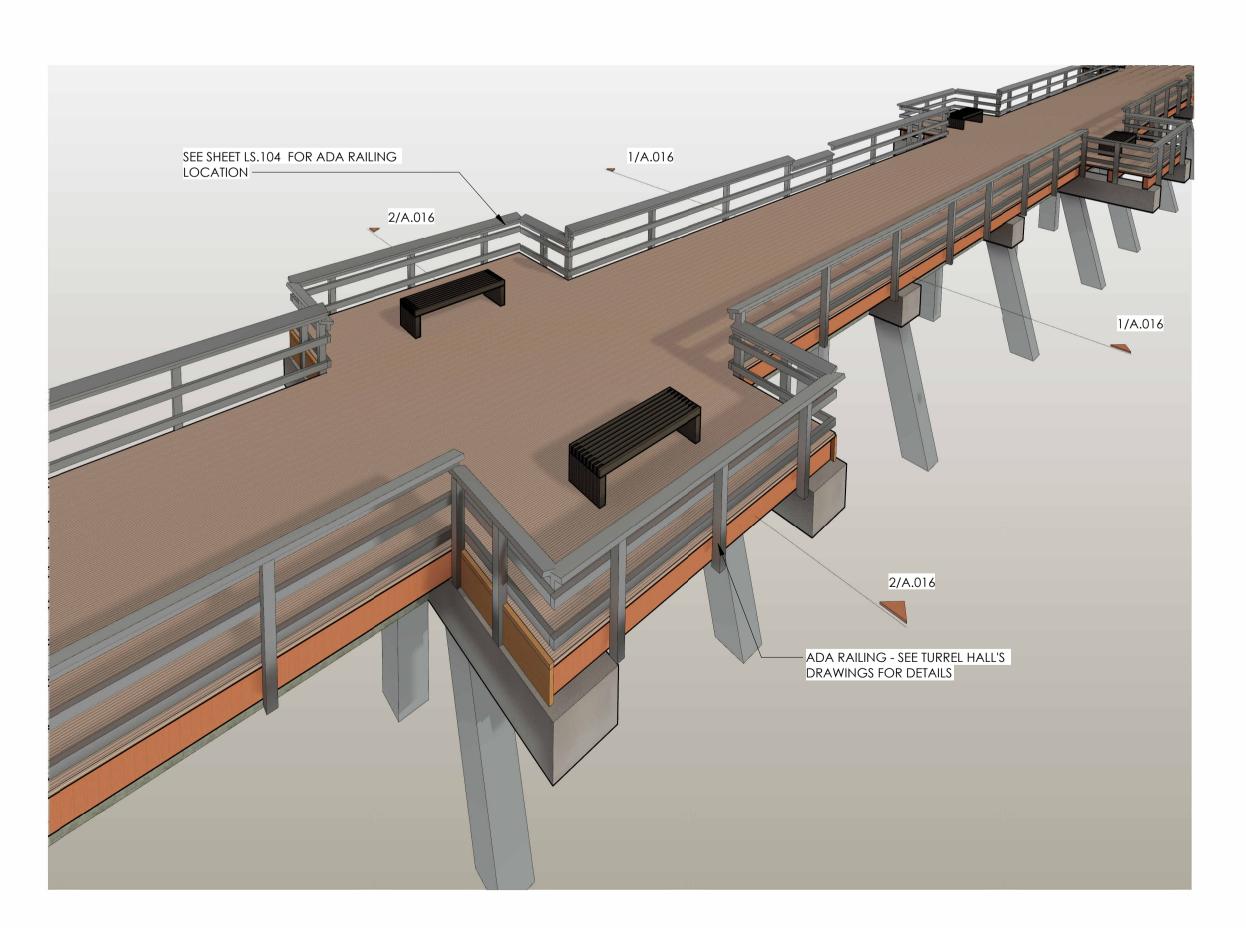
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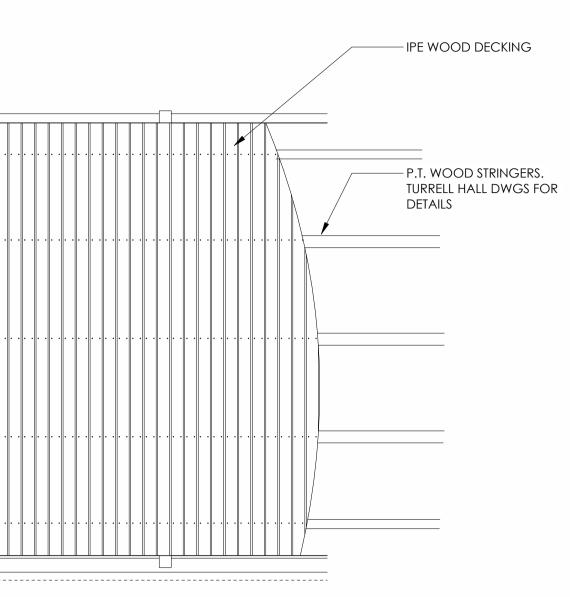


SEE TURREL HALL'S DWGS. FOR _____ RAILING DETAILS ____

4 DECKING - NAILING DETAIL









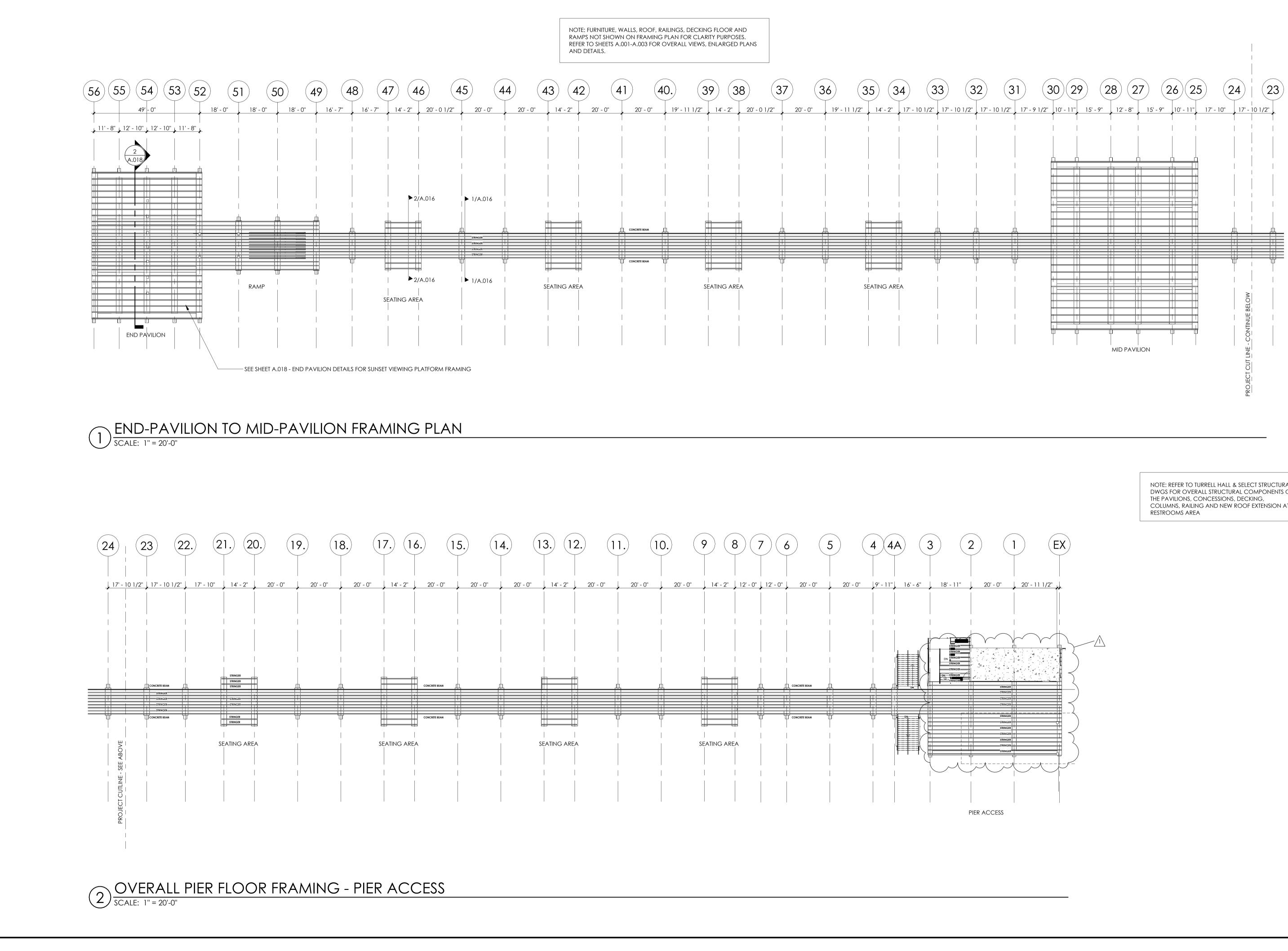
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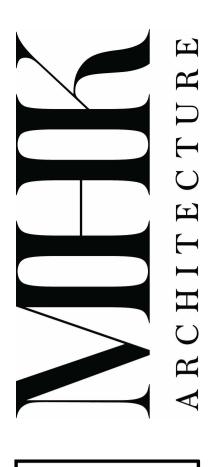
FLORIDA SEAL Reg# Ar 16971

SEATING/DECKING SECTIONS

PHASE PR NO	CD 23118
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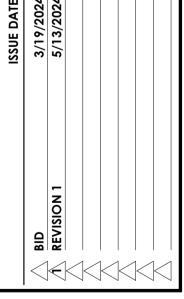
NOTE: REFER TO TURRELL HALL & SELECT STRUCTURAL DWGS FOR OVERALL STRUCTURAL COMPONENTS OF COLUMNS, RAILING AND NEW ROOF EXTENSION AT





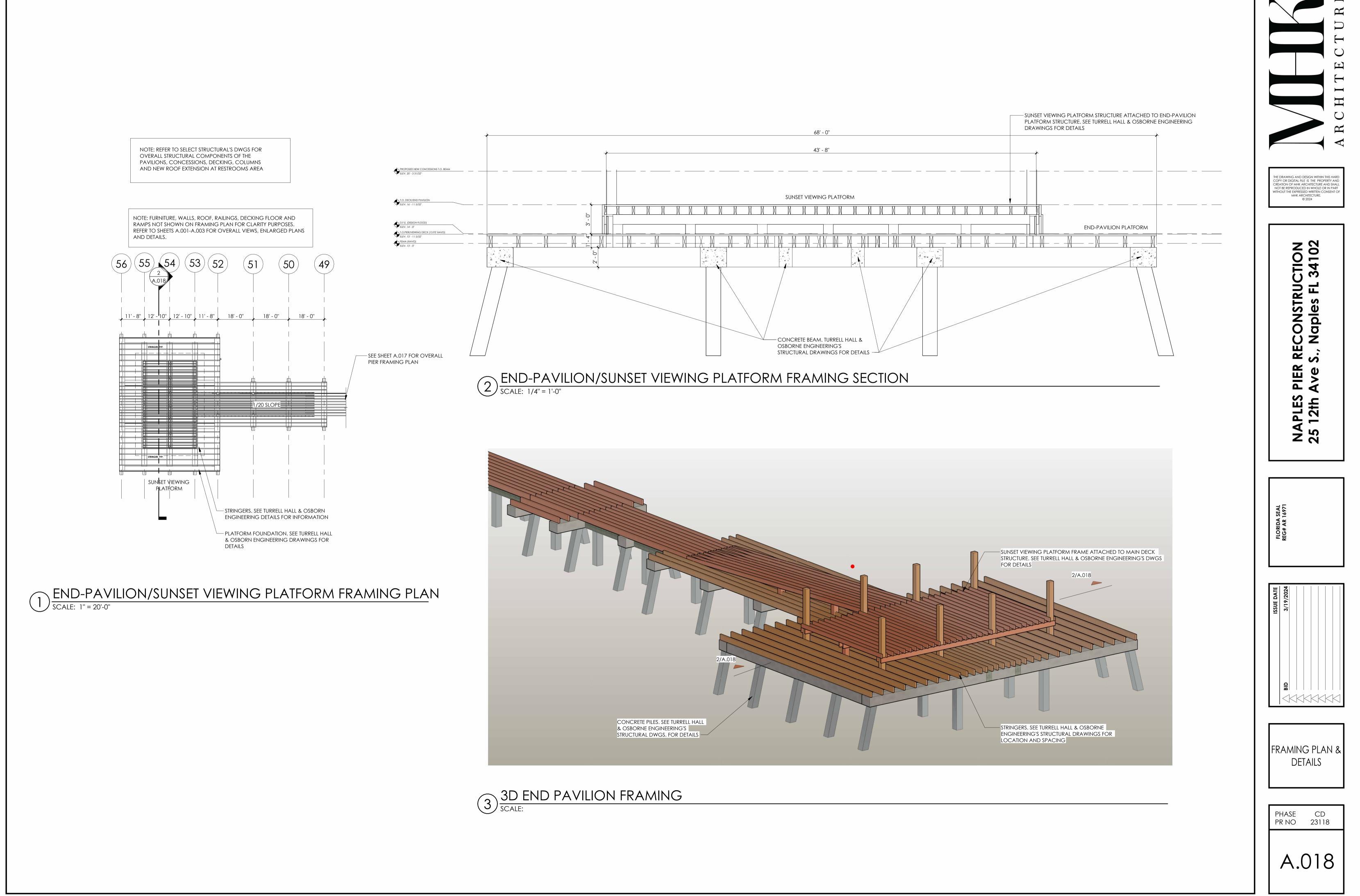


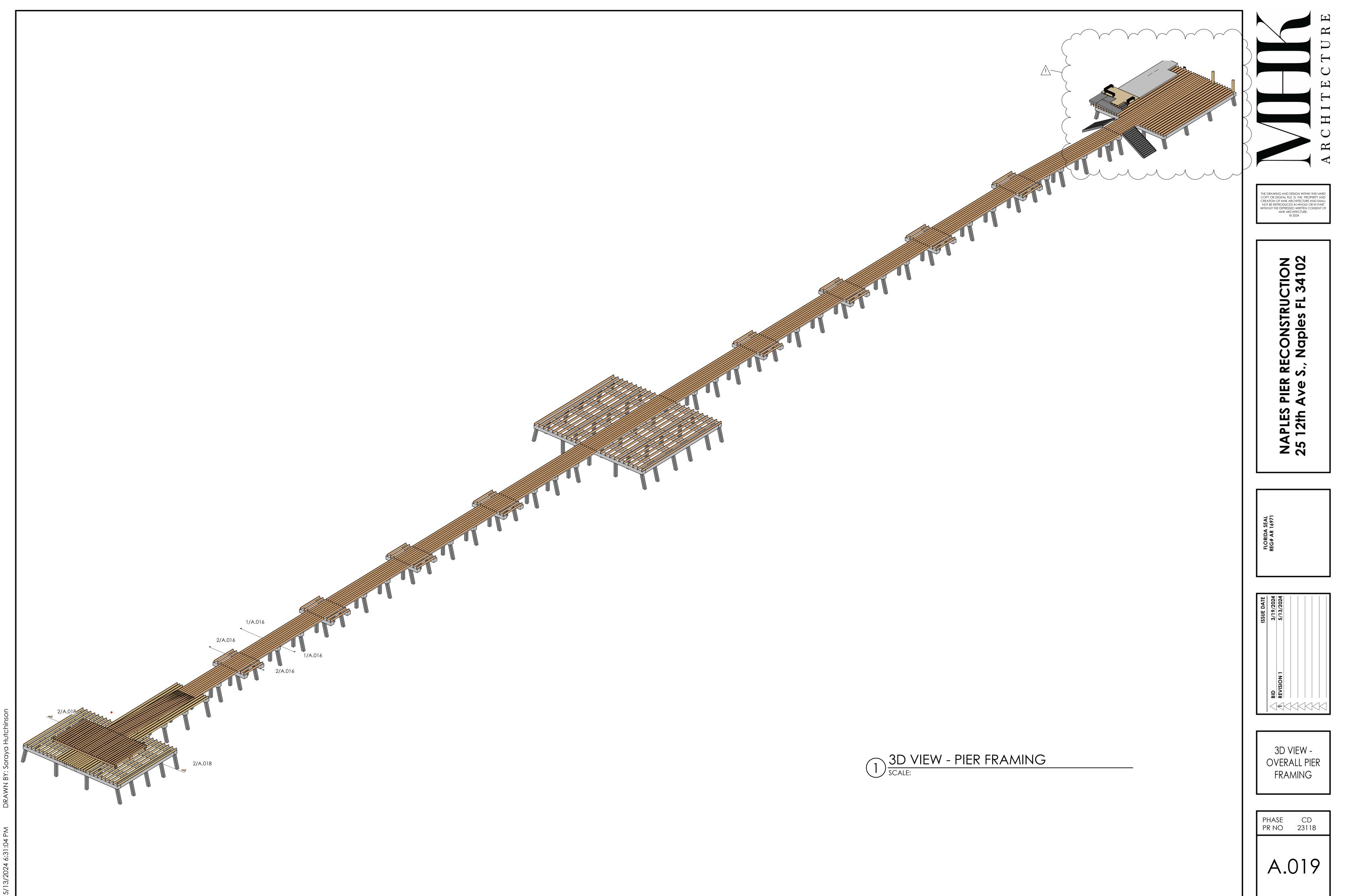


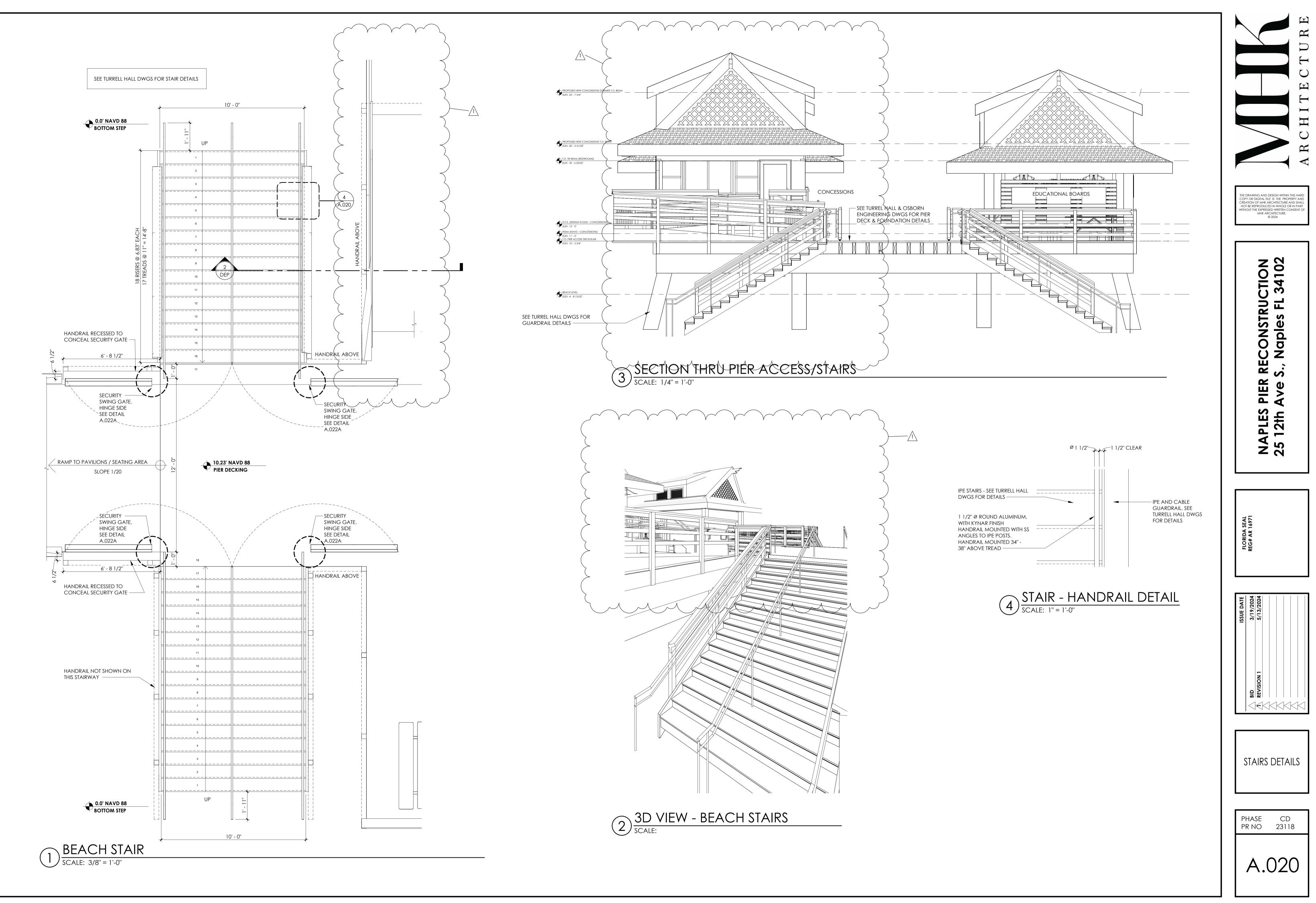




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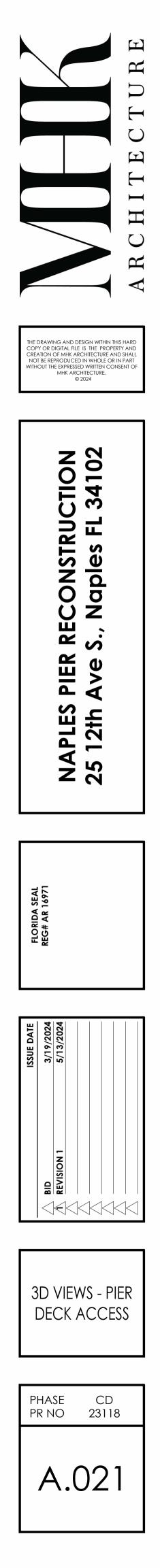


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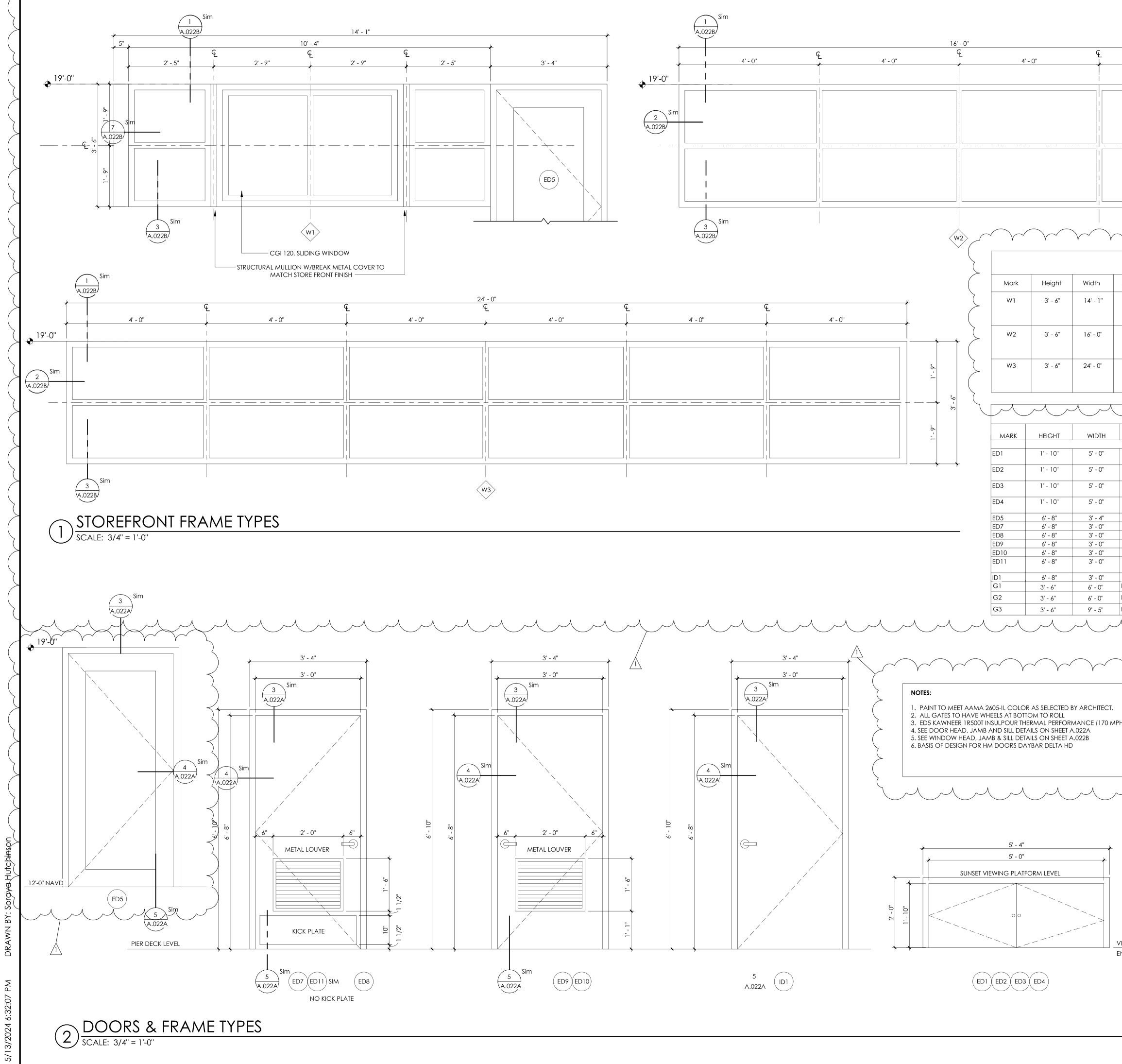
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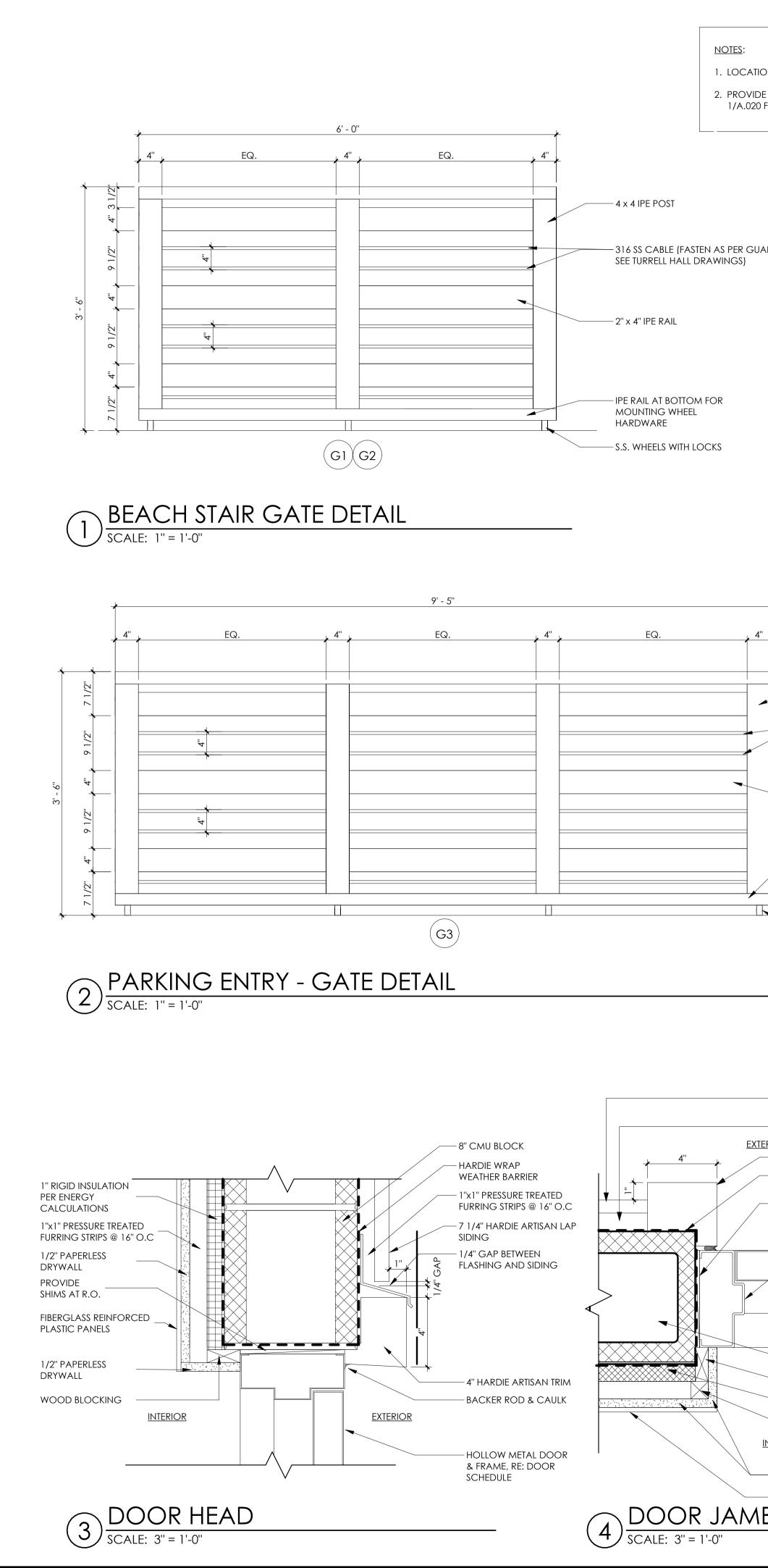
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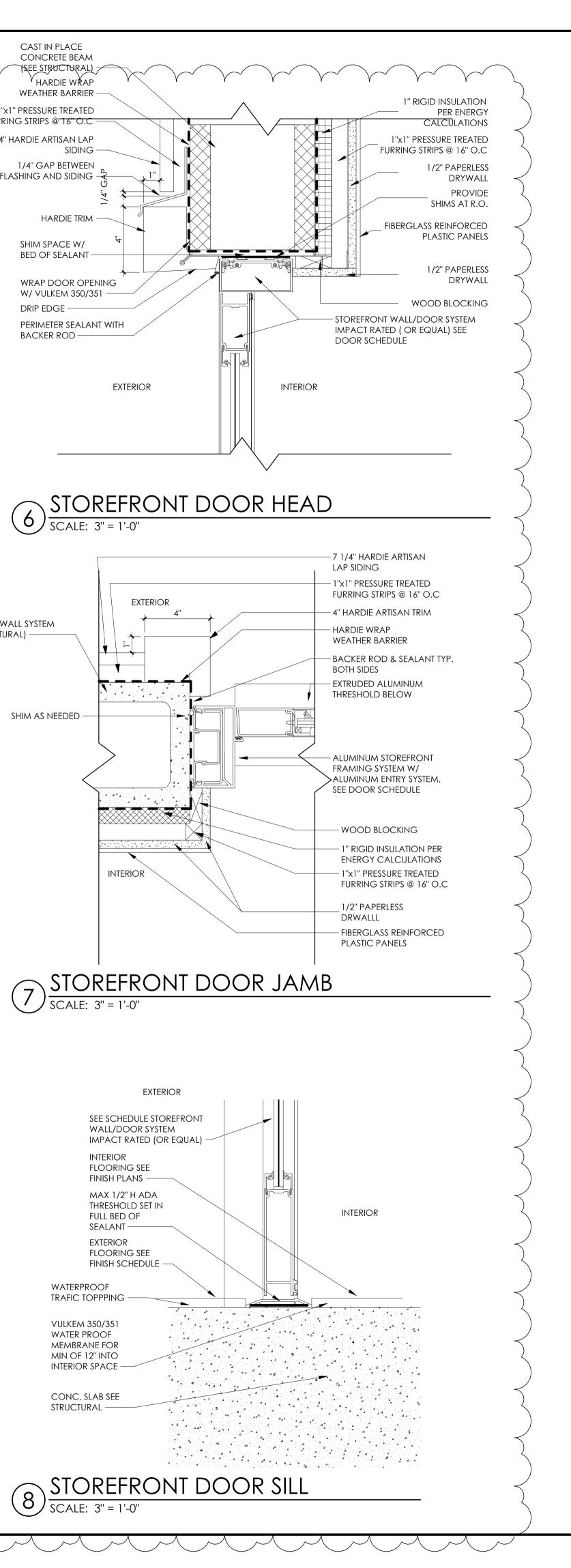
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Material			Description / Finis	sh		Count	\leq		\leq	
ALUM.			(170 MPH); FIXED; V	v/ cgi 120 slidi		1				
	FBC -	8TH ED. 20	.30, 366 LOW E LARC 023, 50% PVDF FINISH ND PERMADIZE FINIS	H TO BE SELECTE	d from		\mathbf{z}		\mathbf{z}	CTION 34102
ALUM.	KAWI	VER IR501T	(170 MPH); FIXED; C MPACT RATED PER F	GLAZING, VT ≤ .3	80, 366 LOW E	1				³ ℃
	FINISH	h to be sel	ECTED FROM PERM N AS SHOWN				Z		Ź	L P R
ALUM.	LARG	E MISSILE I	(170 MPH); FIXED; C MPACT RATED PER F	BC - 8TH ED. 202	23 50% PVDF	1	$\left\langle \right\rangle$			STI
			ected from perm n as shown	ACOAT AND PE	RMADIZE				Z	ONSTRU aples Fl
	$\overline{}$		DOOR SCHEDULE				\sim		\neg	UŽ
DOOR		DOOR TYP		FRAME MATERIAL	HARDWARE SE		CRIPTION	COUNT	$ \begin{pmatrix} \zeta \\ \zeta \end{pmatrix}$	S.,
KING		SWING	NOTE 1/A.022	KING	05	UNDER PLA			\neg	
STARBOAR KING		SWING	NOTE 1/A.022	STARBOARD ST KING	05	STORAGE		1		
STARBOAR KING		SWING	NOTE 1/A.022	STARBOARD ST	05	STORAGE	TFORM	1	\neg	E E E
STARBOAR KING STARBOAR		SWING	NOTE 1/A.022	STARBOARD ST KING STARBOARD ST	05	STORAGE UNDER PLA STORAGE	TFORM	1		APLES 5 12th
GLASS/AL HM	.UM	SWING SWING	NOTE 1/A.022 NOTE 1/A.022	GLASS/ALUM HM	01 01	CONCESSIO PIER STORA		DTE 3 1		25 N
HM HM		swing swing	NOTE 1/A.022 NOTE 1/A.022	HM HM	03 02	FAMILY CA	FROOM	1		
HM HM		swing swing	NOTE 1/A.022 NOTE 1/A.022	HM HM	01	MEN'S REST		TY 1 1		
HM IPE/CABLE	PAII	swing swing	NOTE 1/A.022 NOTE 1/A.022	HM IPE / CABLE	01	UTILITY CONCESSIC BEACH STAI				
IPE/CABLE		SWING	NOTE 1/A.022	IPE / CABLE	04	BEACH STAI			-	
IPE/CABLE	RAIL	SWING	NOTE 1/A.022	IPE / CABLE	04	PARKING /		SS 2		A SEAL 16971
		\sim							\sim	FLORIDA SEAL REG# AR 16971
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				DULE						
			HARDWARE SET 01	:						ISSUE DATE 3/19/2024 5/13/2024
иРН).			/ HEAVY DURY HING SILENCERS	GE BB1279 SR64	4 1/2" x 4 1/2"			hager Ives		3/15 3/15
				AL50PD	STYLE 12 W/ VA		630	SCHLAGE		
			DEADBOLT	GRADE	1 MORTISE LOC	ΣK	630	SCHLAGE		
\sim	\checkmark	\sim	HARDWARE SET 02							_
			HEAVY DURY HING SILENCERS PRIVACY LOCK	GE BB1279 SR64 AL4OS S	4 1/2" x 4 1/2" TYLE 12		GRAY	hager Ives Schlage		
			HARDWARE SET 03	:						
			HEAVY DURY HING SILENCERS	GE BB1279 SR64	4 1/2" x 4 1/2"			hager Ives		
			PRIVACY LOCK CLOSER	AL40S S 4030-30				SCHLAGE LCN		
			KICKPLATE	8400 / 8				IVES		WINDOW AND
			HARDWARE SET 04							door schedule
			GATE TRACK BRAC REAR WHEELS		2					
VIEWING DEC		<u>=L</u>	REAR WHEEL MOU LATCH GATE LOCKING SY		U					
			HARDWARE SET 05							PHASE CD
										PR NO 23118

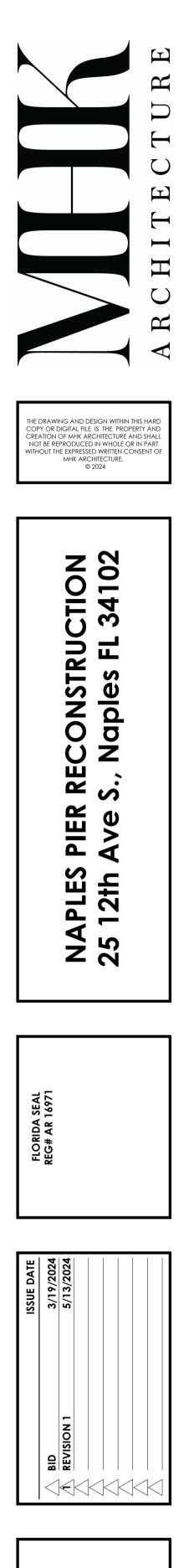
<u>HARDWARE SEI 05</u> HEAVY DURY HINGE BB1279 4 1/2" x 4 1/2" 630 HAGER AL50PD STYLE 12 W/ VANDLGARD 630 SCHLAGE OFFICE LOCK DEADBOLT GRADE 1 MORTISE LOCK 630 SCHLAGE PR NO 23118 A.022



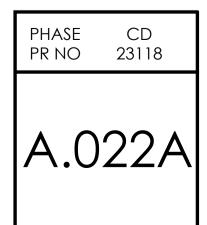
13/2024 6:32:11 PM DRAWN BY: Soraya Hutchinso

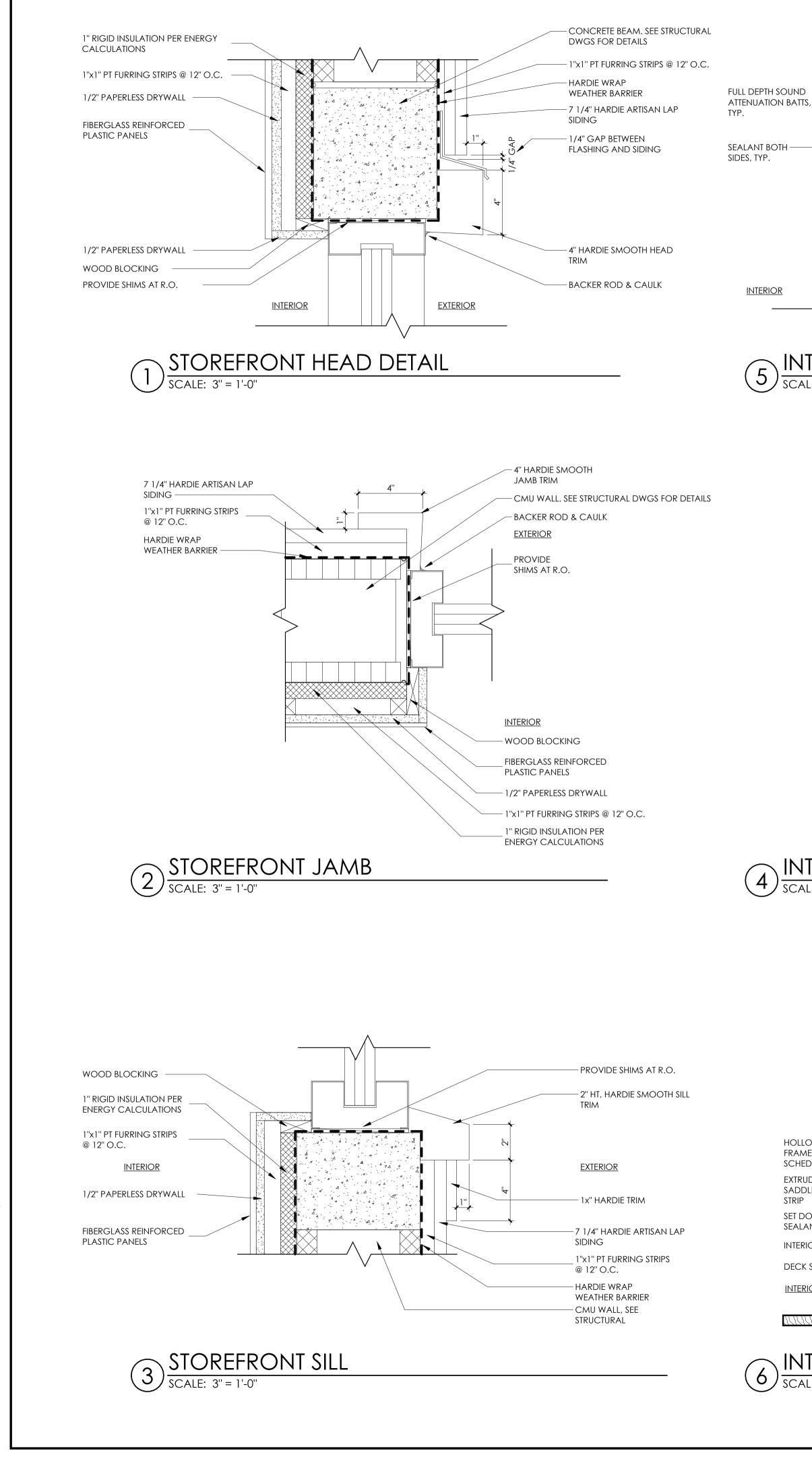
OTES: LOCATIONS OF RAILS & CABLE TO MATCH TURRELL HALL DRAWINGS PROVIDE STAINLESS STEEL HINGES IN LOCATIONS AS SHOWN ON			ו"x1" FURRIN 7 1/4" H.
1/A.020 FOR ALL GATES.			FLA
	$\left(\right)$		
S PER GUARDRAIL.			
INGS)			
^	$\left\{ \right\}$		
	$\left(\right)$		
			(
	$\left\{ \right\}$		
			CONCRETE WA (SEE STRUCTUR)
<u> </u>			
4 x 4 IPE POST			2
316 SS CABLE (FASTEN AS PER GUARDRAIL.	$\left\langle \right\rangle$		
SEE TURRELL HALL DRAWINGS)			
	$\left\{ \right\}$		
IPE RAIL AT BOTTOM FOR MOUNTING WHEEL HARDWARE	$\left(\right)$		
S.S. WHEELS WITH LOCKS			
	$\left\{ \right\}$		(
			(
LAP SIDING 1"x1" PRESSURE TREATED FURRING STRIPS @ 16" O.C	$\left\langle \right\rangle$		
4" HARDIE ARTISAN TRIM HARDIE WRAP			
WEATHER BARRIER PROVIDE SHIMS AT R.O.			
HOLLOW METAL DOOR & FRAME, RE: DOOR SCHEDULE			
		HOLLOW METAL DOOR &	
		SCHEDULE EXTRUDED ALUM SADDLE AND STOP	
8" CMU BLOCK		SET DOOR IN BED OF	
WOOD BLOCKING	$\langle \rangle$		
1" RIGID INSULATION PER ENERGY CALCULATIONS 1"x1" PRESSURE TREATED INTERIOR FURRING STRIPS @ 16" O.C	\langle	DECK STRUCTURE	
INTERIOR FURRING STRIPS @ 16" O.C 1/2" PAPERLESS DRWALLL			
FIBERGLASS REINFORCED PLASTIC PANELS		DOOR SILL	
	$\left\langle \right\rangle$	$(5)\frac{DOOR SILL}{SCALE: 3'' = 1'-0''}$	(

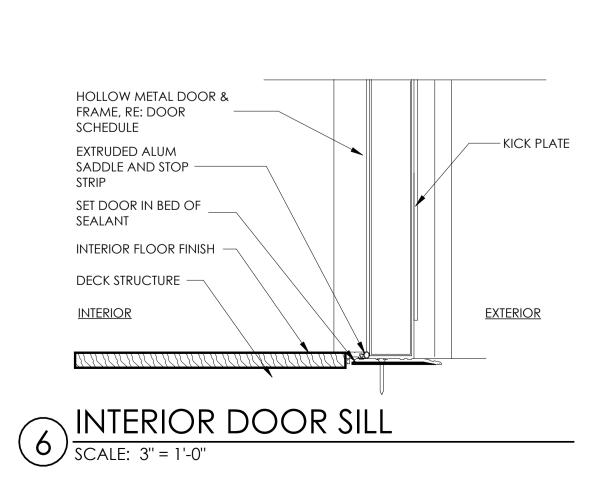




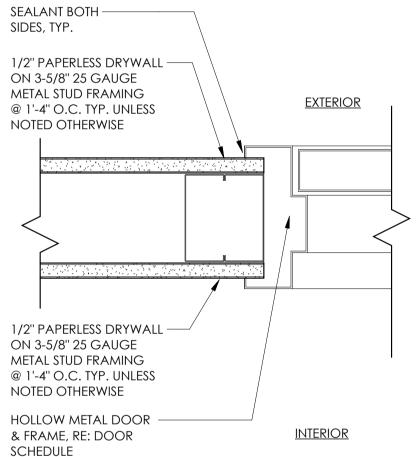


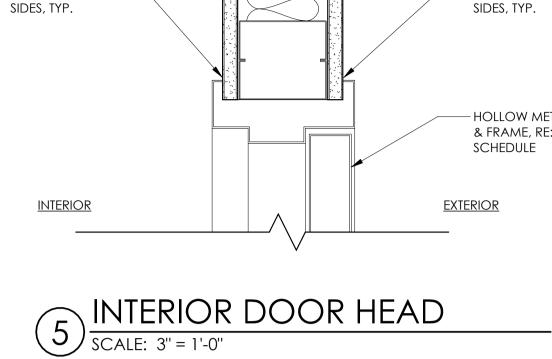












ON 3-5/8" 25 GAUGE METAL STUD FRAMING @ 1'-4" O.C. TYP. UNLESS NOTED OTHERWISE

1/2" PAPERLESS DRYWALL

- SEALANT BOTH SIDES, TYP.

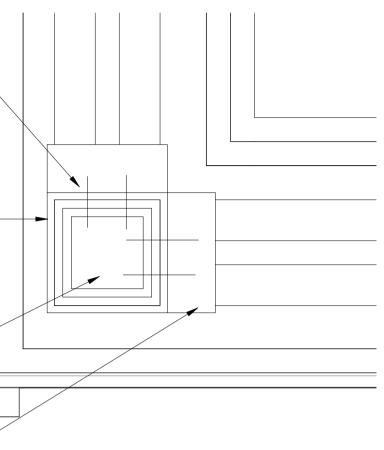
- HOLLOW METAL DOOR & FRAME, RE: DOOR

STOREFRONT FRAME -MECHANICALLY ATTACHED TO ______ ALUMINUM BRAKE METAL COLUMN COVER (TO MATCH FINISH OF ADJACENT ALUMINUM storefront) HSS 4x4x1/4. SEE STRUCTURAL — DWGS FOR DETAILS

MECHANICALLY ATTACHED TO HSS POST

STOREFRONT FRAME -

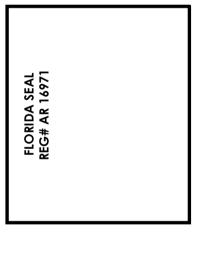


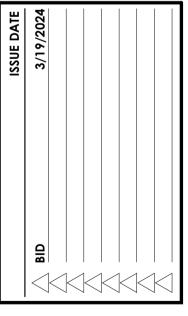






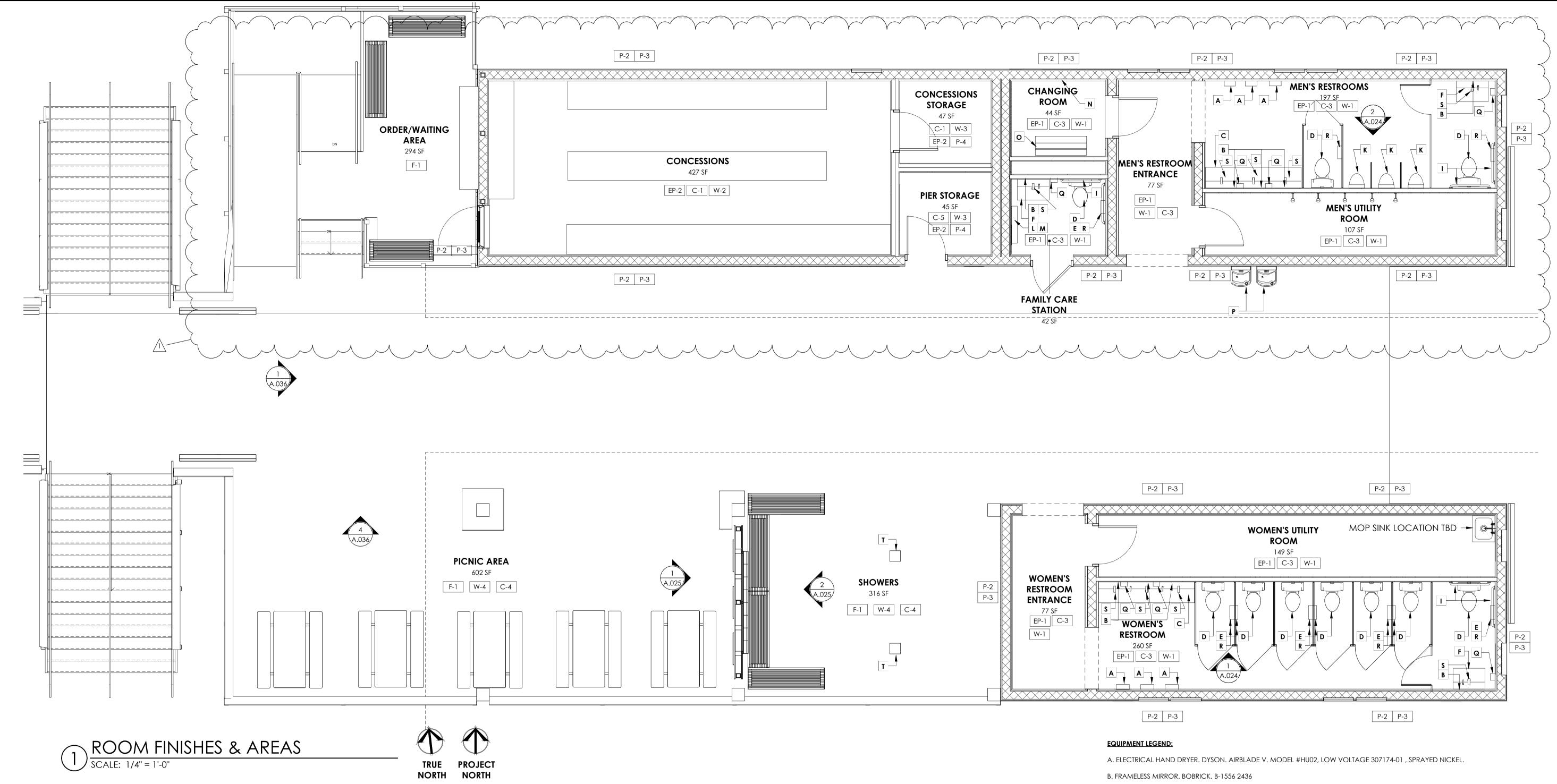






WINDOW	DETAILS

PHASE	CD
PR NO	23118
A.C)22B



<u>FINISH</u>	FINISH SPECIFICATIONS		P-2	<u>PAINT:</u> MANUFACTURER: SHERWIN-WILLIAMS COLOR: TO MATCH EXISTING	EXTERIOR HARDIE ARTISAN SIDING	W-2	PAPERLESS DRYWALL WITH FIBERGLASS REINFORCED PLASTIC MARLITE SYMMETRIC SMART SEAM SUBWAY HORIZONTAL 6"X3" OR RECTANGLE HORIZONTAL 6"X3". COLOR AS SELECTED BY ARCHITECT FROM CLASSIC COLORS			
TAG	SPECIFICATION	NOTES		FINISH: LATEX - EGGSHELL			AND SHERWIN -WILLIAMS COLOR TRENDS			
EP-1	DUR-A-FLEX HYBRI-FLEX MC. COLOR TO BE SELECTED BY ARCHITECT FROM ANY OF	FLOOR	P-3		EXTERIOR TRIM	- W-3	PAPERLESS DRYWALL, PAINTED			
	MACRO-CHIP, MICRO-CHIP, EARTHSTONE, CLAYSTONE DESIGNER FINISHES.			MANUFACTURER: SHERWIN-WILLIAMS COLOR: TO MATCH EXISTING FINISH: LATEX - SEMIGLOSS		W-4	IPE-CLAD COLUMNS. NATURAL WEATHER			
	BASE BID: INSTALL OVER EXISTING CONCRETE SLAB (AFTER REMOVAL OF EXISTING EP OXY FLOORING)		P-4	<u>PAINT:</u> MANUFACTURER: SHERWIN-WILLIAMS COLOR: AS SELECTED BY ARCHITECT	GENERAL INTERIOR WALL	F-1	IPE DECKING NATURAL WEATHER			
	ALTERNATE BID: INSTALL OVÉR EXISTING EPOXY FLOORING			FINISH: EGGSHELL		C-1	ARMSTRONG, CLEAN ROOM VL#868, UNPERFORATED, WHITE, 2'X2'. WITH 15/16''			
EP-2	DUR-A-FLEX HYBRI-FLEX MC. COLOR TO BE SELECTED BY ARCHITECT FROM ANY OF	FLOOR AND 6" COVE BASE	W-1	DUR-A-FLEX DUR-A-WALL VC. WAINSCOT			SUSPENSION SYSTEM			
	MACRO-CHIP, MICRO-CHIP, EARTHSTONE, CLAYSTONE DESIGNER FINISHES.			TO EXISTING IPE. COLOR TO BE SELECTED BY ARCHITECT FROM ANY OF MACRO- CHIP AND MICRO-CHIP FINISHES.	EXISTING IPE TO BE REFINISHED	C-2	GYPSUM BOARD, PAINTED WITH SHERWIN-WILLIAMS, COLOR: AS SELECTED BY ARCHITECT FINISH: LATEX - EGGSHELL			
	BASE BID: INSTALL OVER EXISTING CONCRETE SLAB (AFTER REMOVAL OF EXISTING EP OXY FLOORING)			BASE BID: INSTALL OVER EXISTING CMU BLOCK AFTER REMOVAL OF EXISTING EPOXY WALL FINISH AND RELATED		C-3	EXISTING IPE TONGUE AND GROOVE CEILING, TO BE RESTAINED.			
	ALTERNATE BID: INSTALL OVER EXISTING EPOXY FLOORING		_	MOUNTING MATERIALS. SKIM COAT BLOCK SMOOTH.		C-4	TRUSSES (HEAVY TIMBER), RAFTERS, TONGUE AND GROOVE ROOF DECK. NATURAL WEATHER ALL IPE.			
P-1	PAINT: MANUFACTURER: SHERWIN-WILLIAMS COLOR: AS SELECTED BY ARCHITECT FINISH: LATEX - EGGSHELL	CEILING		ALTERNATE BID: INSTALL OVER EXISTING EPOXY WALL FINISH.		C-5	STUCCO PAINTED W/ SHERWIN WILLIAMS, COLOR AS SELECTED BY ARCHITECT, FINISH LATEX-EGGSHELL			

P-2

- POLY

- HEAVY DUTY PIANO HINGE.
- G. <u>NOT USED</u>
- H. <u>Not used</u>
- J. <u>NOT USED</u>

- ARCHITECT.
- STAINLESS.

C. THREE STATION LAVATORY. BRADLEY VERGE. MODEL # LVLD3 / L SINGLE TEMPERED LINE ASSEMBLY / ANTARTICA / STAIN / S-

D. TOILET. AMERICAN STANDARD. MODEL #3353.001 AFWALL MILLENIUM FLOWISE 1.1 GPF ELONGATED FLUSHOMETER TOILET SYSTEM WITH EVERCLEAN, AC POWER #6067.262.002 (BACK SPUD) WHITE, WITH HEAVY DUTY OPEN FRONT ELONGATED COVER SEAT WITH EVERCLEAN SURFACE, MODEL # 59011101.020

E. SANITARY PRODUCT DISPOSAL UNIT MODEL 4A10-11 SURFACE MOUNTED BRADEX - DIPLOMAT SERIES - STAINLESS STEEL WITH

F. LAVATORY, BRADLEY. MODEL #LVLD1 / IR-DCD-PT / 6315-KT0000-P19-231F / TMA / ANTARTICA / STAIN / S-POLY

I. GRAB BAR. BOBRICK. MODEL #B-6897.99 TWO- WALL TOILET COMPARTMENT GRAB BAR PEENED.

K. URINAL. AMERICAN STANDARD. MODEL #6042.001EC.020 DECORUM .125 GPF/0.47 LPF HIGH EFFICIENCY TOP SPUD URINAL WITH EVERCLEAN, WHITE, WITH SELECTRONIC DC TOP SPUD FLUSH VALVE 6063.013.002

L. BABY CHANGING STATION. KOALA KARE. MODEL #KB300-SS, COLOR: 01 GREY

M. CHILD PROTECTION SEAT. KOALA KARE. MODEL # KB102, COLOR 01 GREY.

N. HEAVY DUTY CLOTHES HOOK WITH CONCEALED MOUNTING, BOBRICK, MODEL # B-2116 (5 TOTAL)

O. BENCH. BRADLEY. LENOXPEDESTAL 72-0120 BLACK STD - LENOX LOCKER PEDESTAL BENCH, 12 W x 72". COLOR AS SELECTED BY

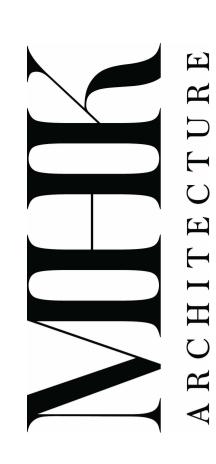
P. ELKAY EZH2O BOTTLEFILLING STATION & BI-LEVEL HIGH EFFICIENCY VANDAL-RESISTANT COOLER FILTERED REFRIGERATED

Q. GOJO 2730-12 TFX 1200 ML BLACK TOUCHLESS HAND SOAP DISPENSER. (EXISTING TO REMAIN)

R. TWIN TISSUE DISPENSER PLASTIC - BLACK - SURFACE MOUNTED (EXISTING TO REMAIN)

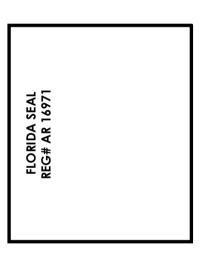
S. DELTA DEMD-301LF - ELECTRONIC FAUCET FOR COLD OR PREMIXED WATER

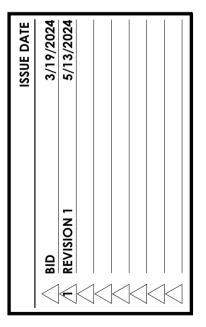
T. EXISTING SHOWERS TO BE REMOVED AND REINSTALLED FOR REUSE



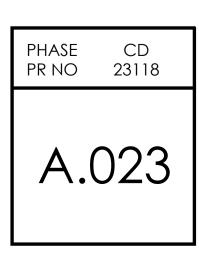


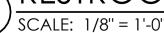
ECONSTRUCTION Naples FL 34102 RE S., PIER Ave NAPLES 25 12th /

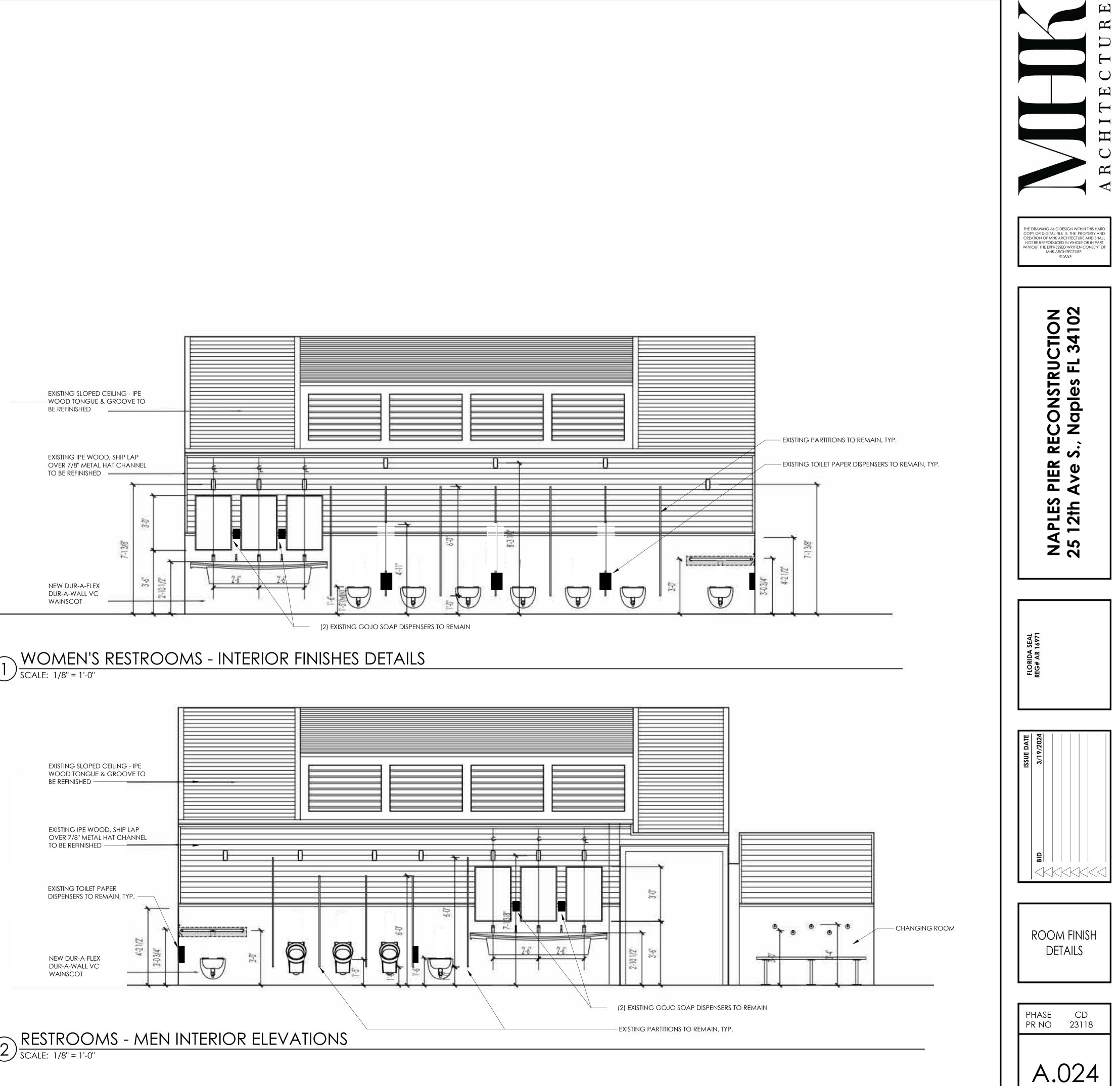


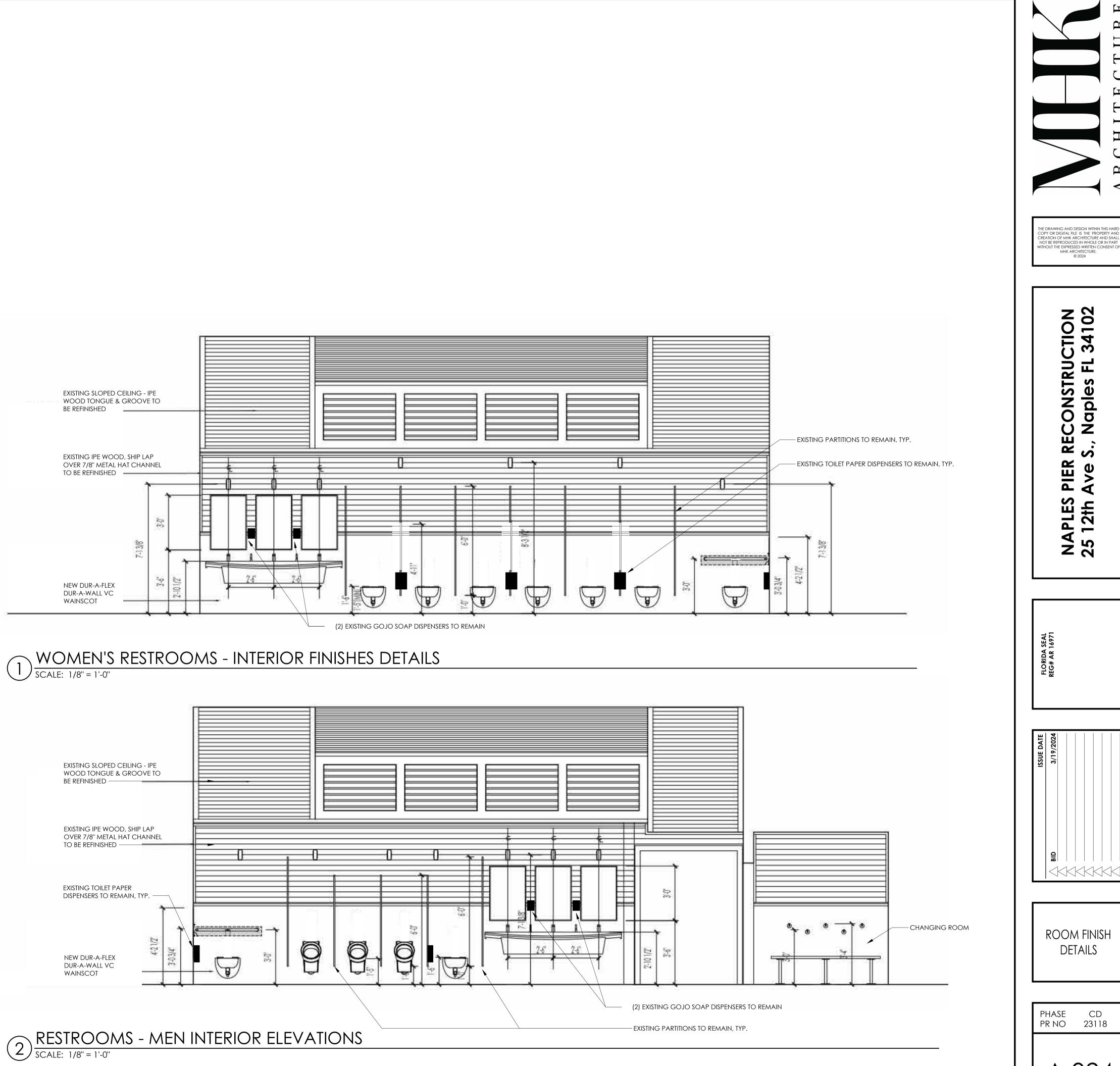


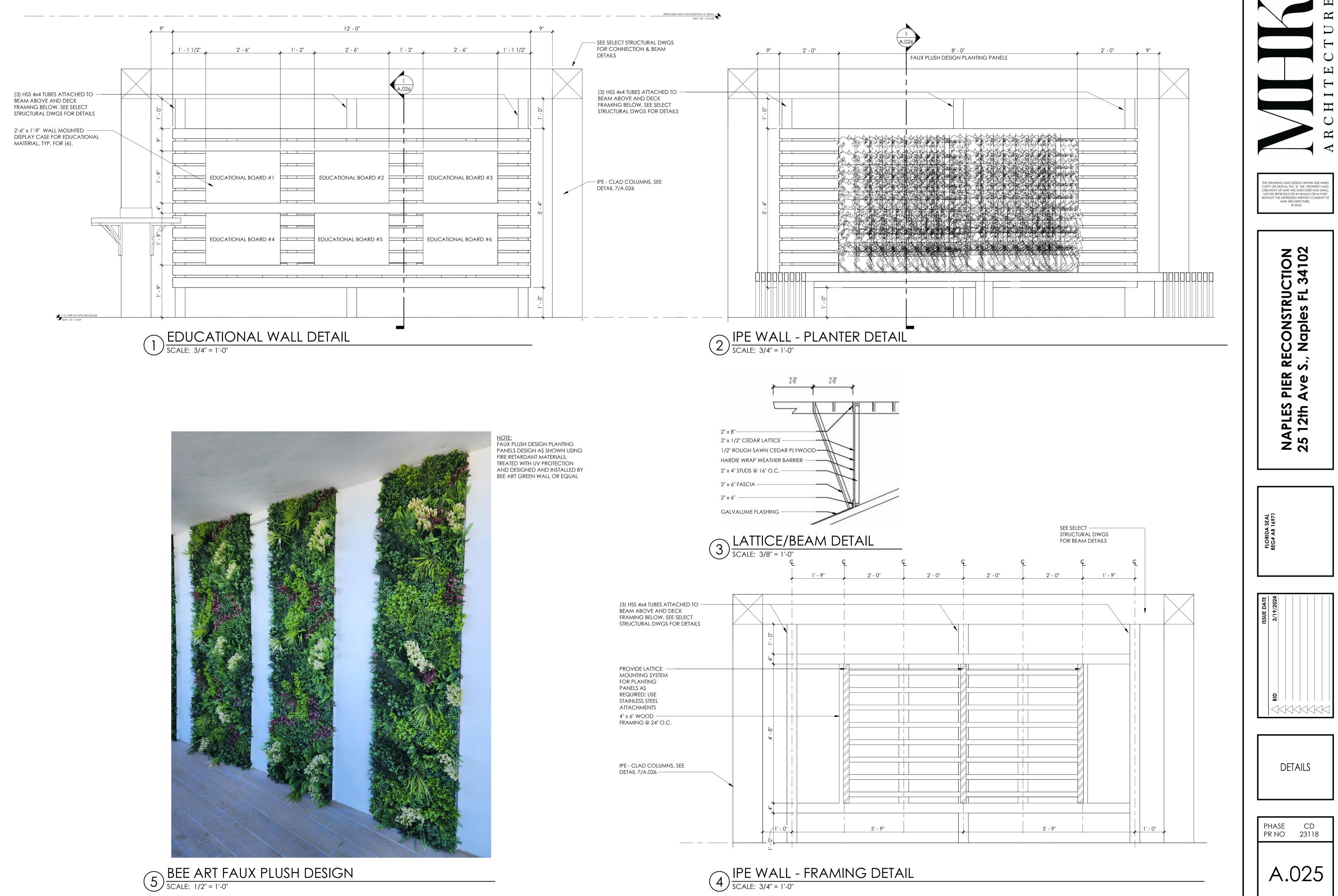
ROOM	FINISHES

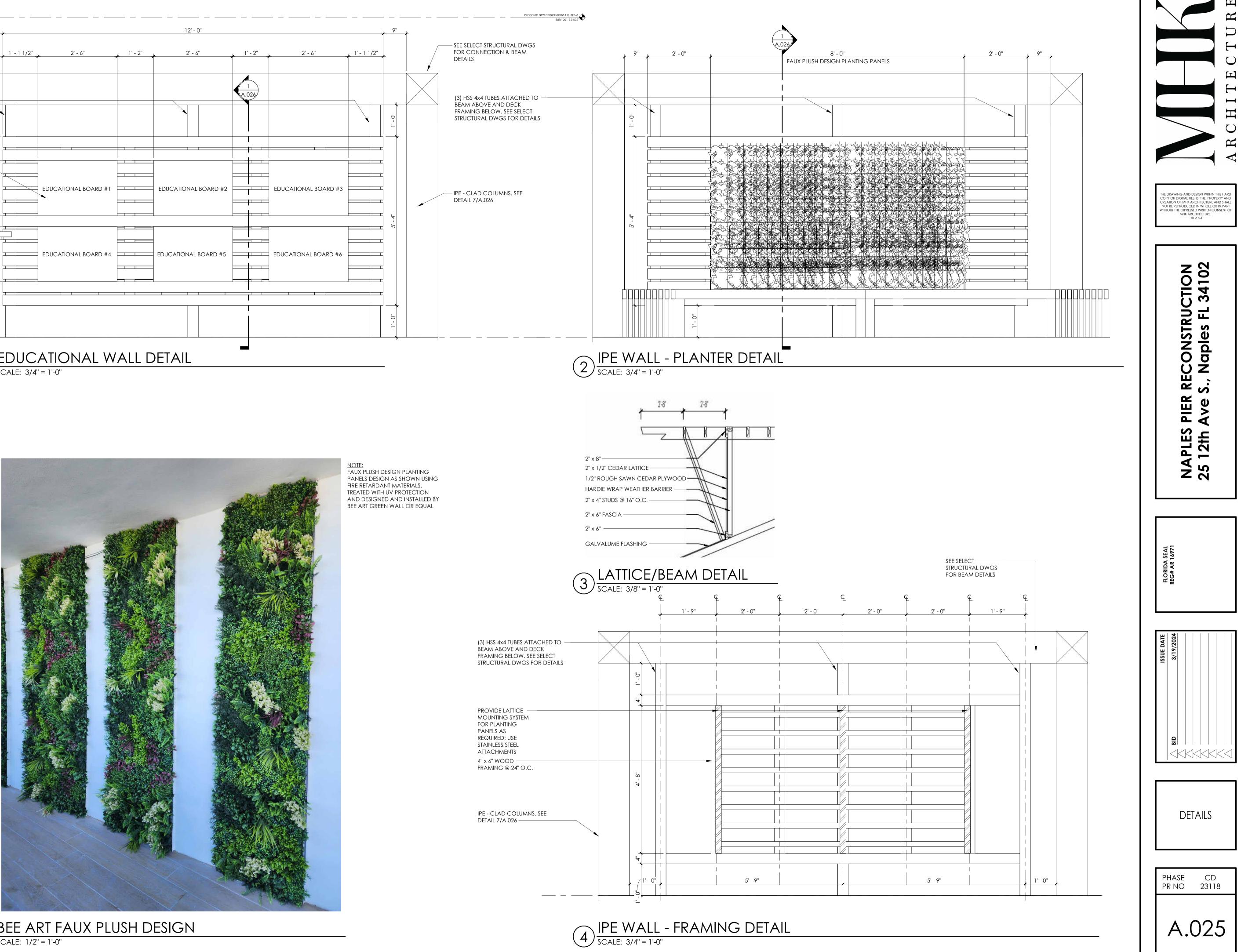




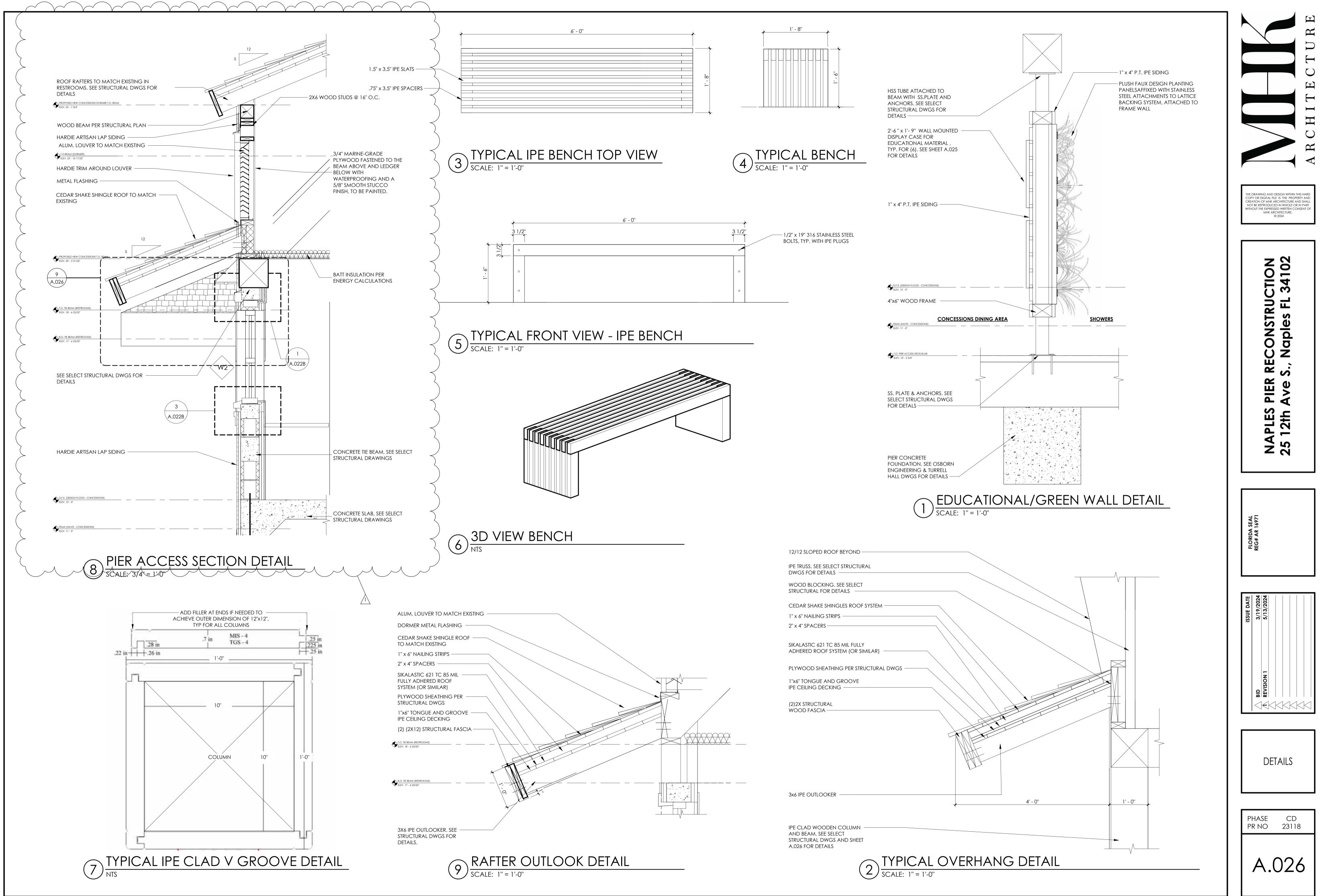




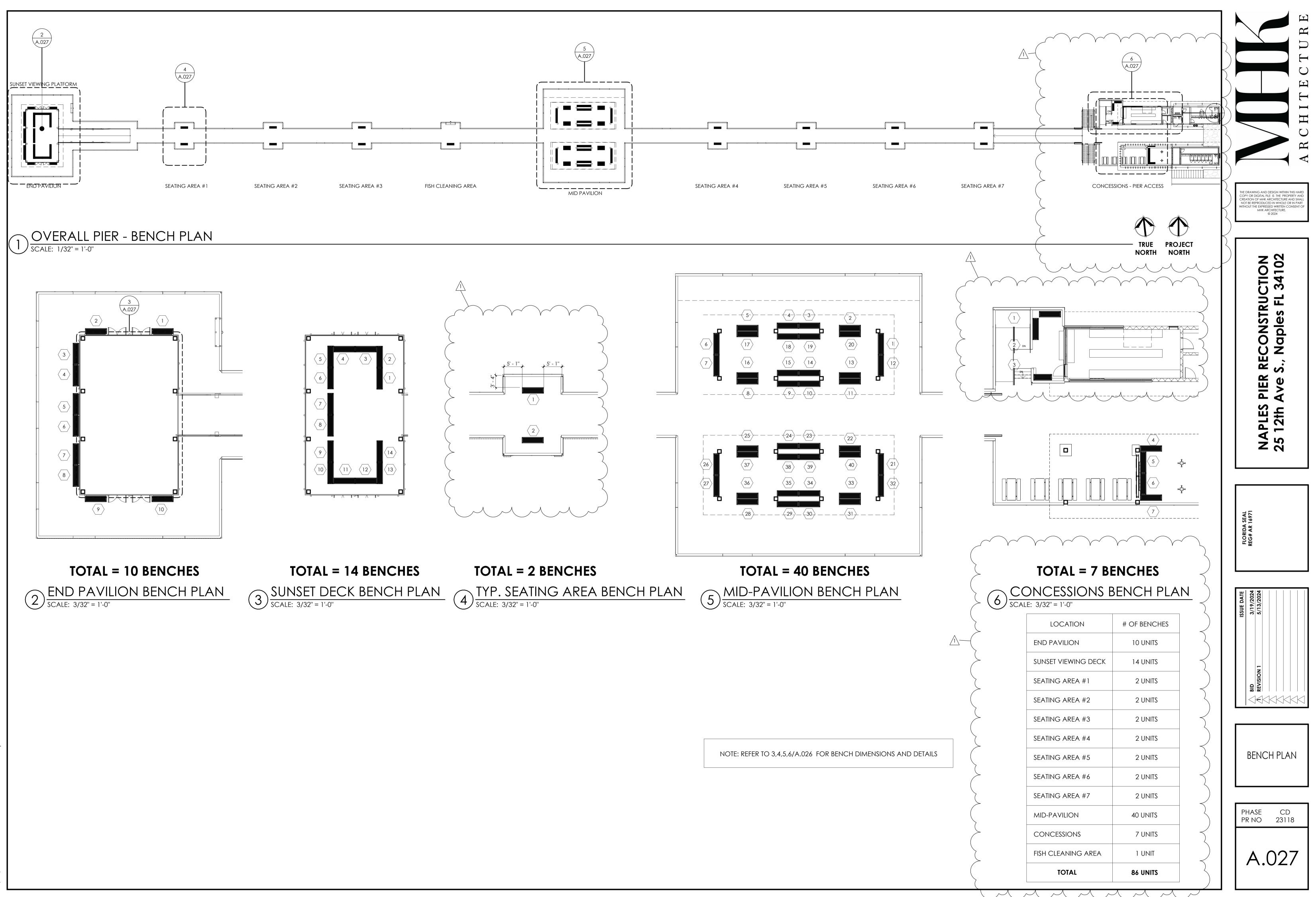


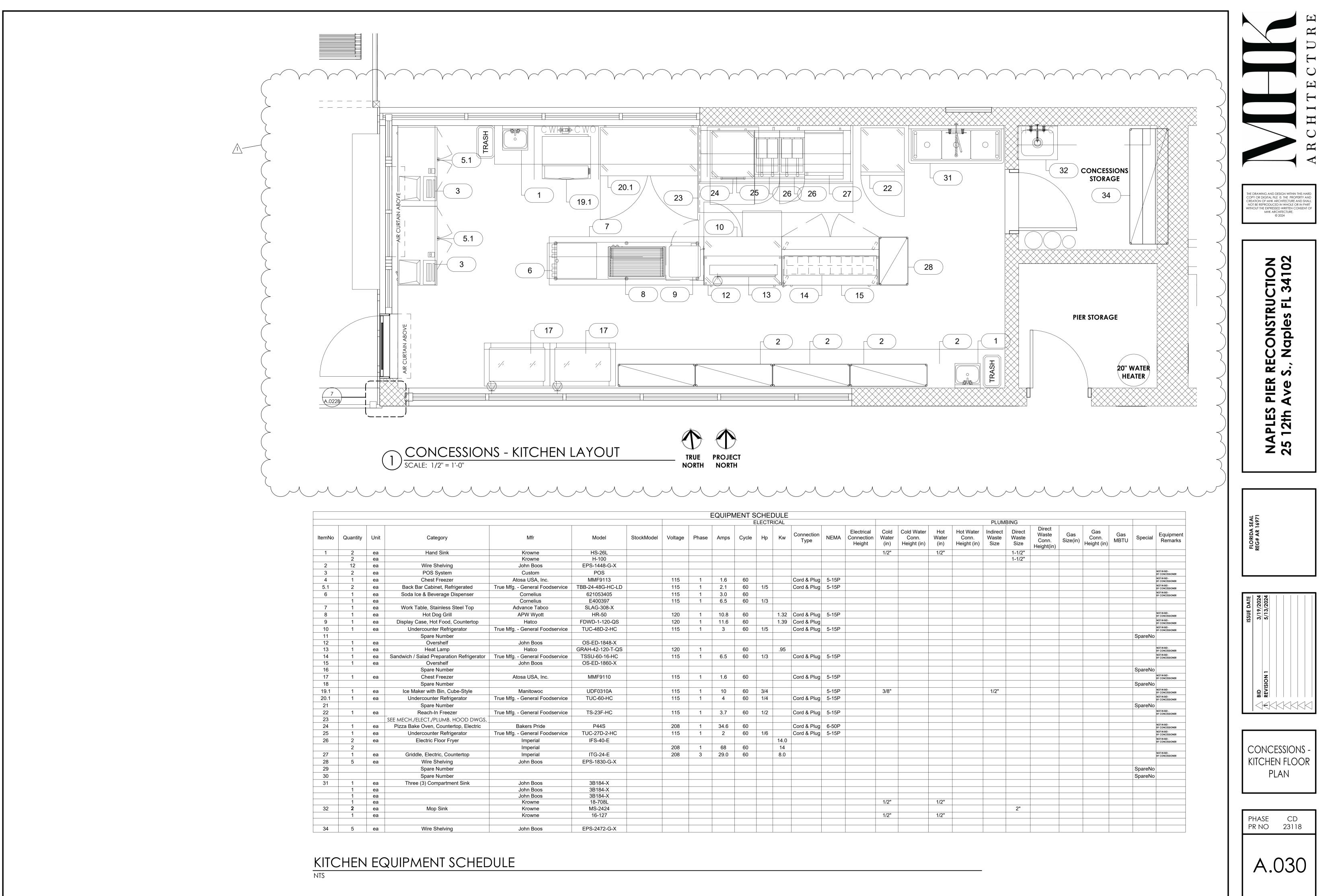




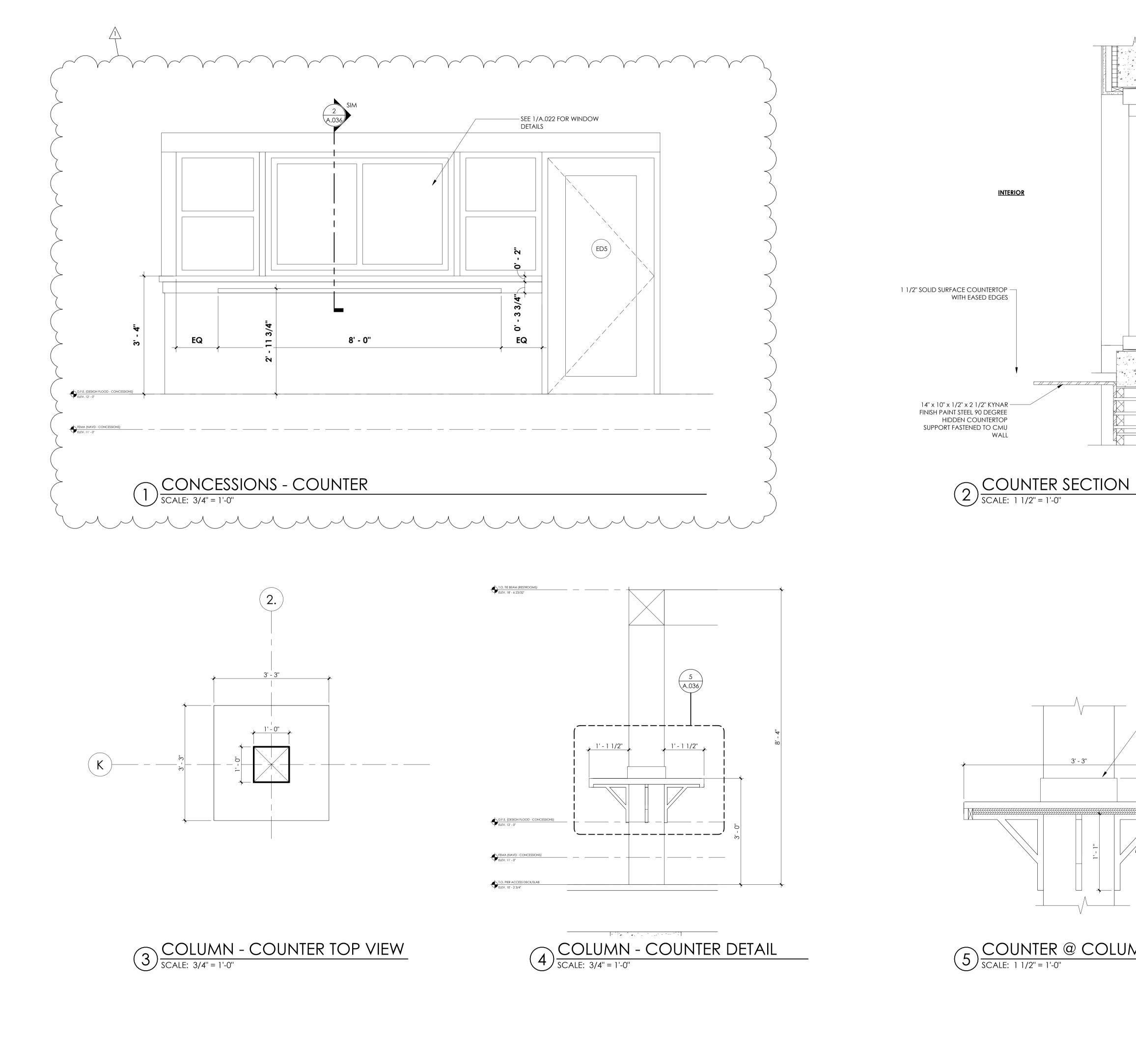


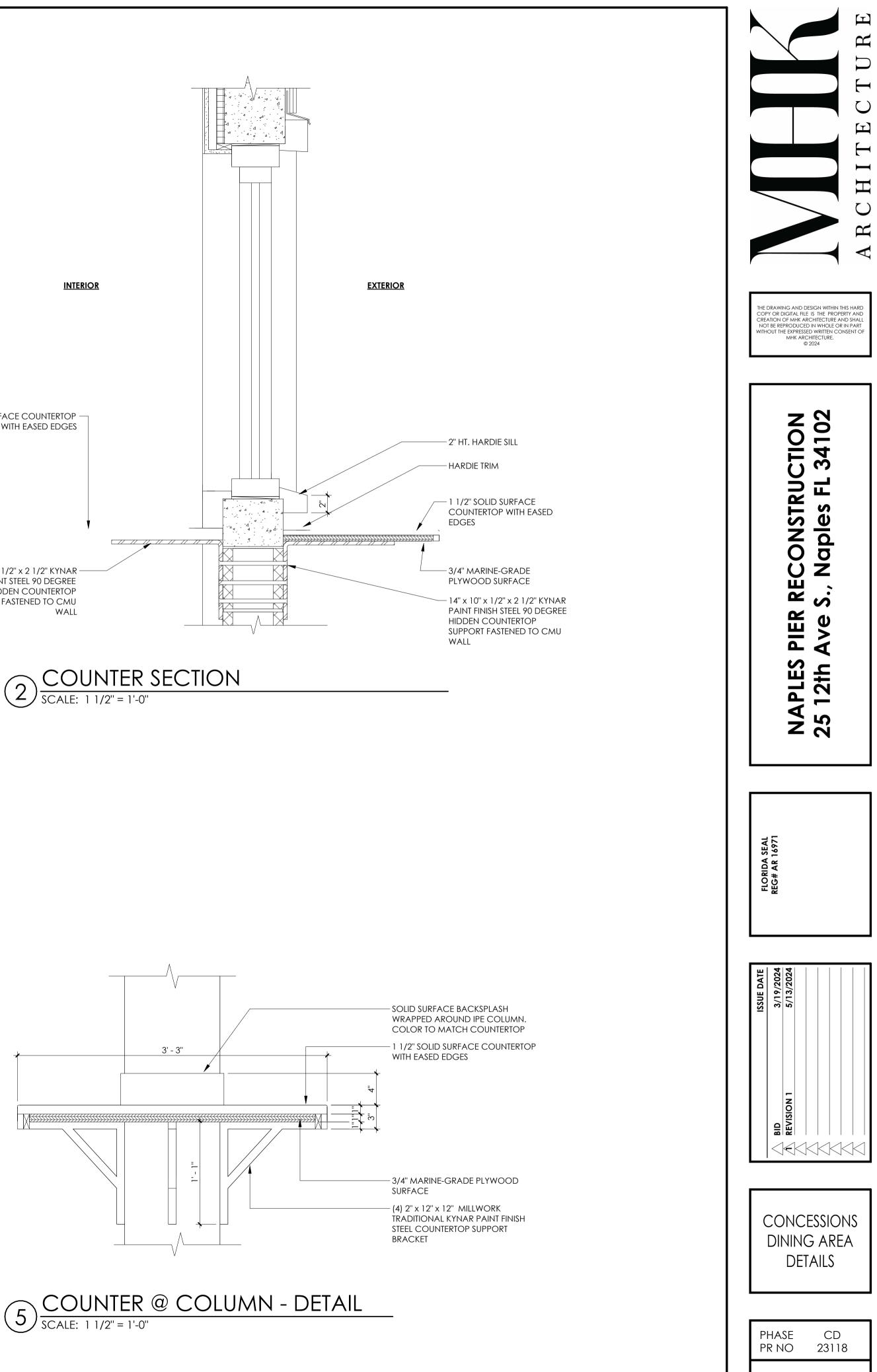
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						EQUIP								
							. Ε	LECTF	ICAL					
Category	Mfr	Model	StockModel	Voltage	Phase	Amps	Cycle	Нр	Kw	Connection Type	NEMA	Electrical Connection Height	Cold Water (in)	Cold Co Heig
Hand Sink	Krowne	HS-26L											1/2"	
	Krowne	H-100												
/ire Shelving	John Boos	EPS-1448-G-X												
OS System	Custom	POS												
nest Freezer	Atosa USA, Inc.	MMF9113		115	1	1.6	60			Cord & Plug	5-15P			
Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1	60	1/5		Cord & Plug	5-15P			
Beverage Dispenser	Cornelius	621053405		115	1	3.0	60							
	Cornelius	E400397		115	1	6.5	60	1/3						
e, Stainless Steel Top	Advance Tabco	SLAG-308-X												
lot Dog Grill	APW Wyott	HR-50		120	1	10.8	60		1.32	Cord & Plug	5-15P			
e, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1	11.6	60		1.39	Cord & Plug				
ounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1	3	60	1/5		Cord & Plug	5-15P			
bare Number										<u> </u>				
Overshelf	John Boos	OS-ED-1848-X												
Heat Lamp	Hatco	GRAH-42-120-T-QS		120	1		60		.95					
d Preparation Refrigerator	True Mfg General Foodservice	TSSU-60-16-HC		115	1	6.5	60	1/3		Cord & Plug	5-15P			
Overshelf	John Boos	OS-ED-1860-X												
bare Number													,	
nest Freezer	Atosa USA, Inc.	MMF9110		115	1	1.6	60			Cord & Plug	5-15P			
bare Number														
with Bin, Cube-Style	Manitowoc	UDF0310A		115	1	10	60	3/4			5-15P		3/8"	
ounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4	60	1/4		Cord & Plug	5-15P			
bare Number														
ach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60	1/2		Cord & Plug	5-15P			
CT./PLUMB. HOOD DWGS.														
ven, Countertop, Electric	Bakers Pride	P44S		208	1	34.6	60			Cord & Plug	6-50P			
ounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60	1/6		Cord & Plug	5-15P			
tric Floor Fryer	Imperial	IFS-40-E							14.0					
•	Imperial			208	1	68	60		14					
Electric, Countertop	Imperial	ITG-24-E		208	3	29.0	60		8.0					
/ire Shelving	John Boos	EPS-1830-G-X												
pare Number														
bare Number														
Compartment Sink	John Boos	3B184-X												
	John Boos	3B184-X												
	John Boos	3B184-X												
	Krowne	18-708L											1/2"	
Mop Sink	Krowne	MS-2424												
	Krowne	16-127											1/2"	
/ire Shelving	John Boos	EPS-2472-G-X												



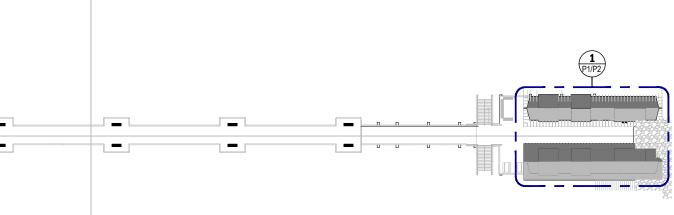


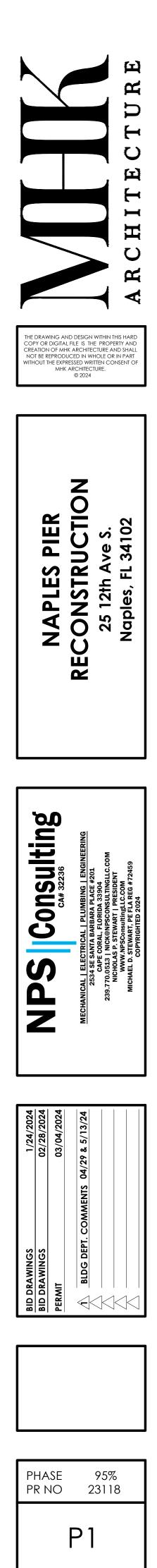
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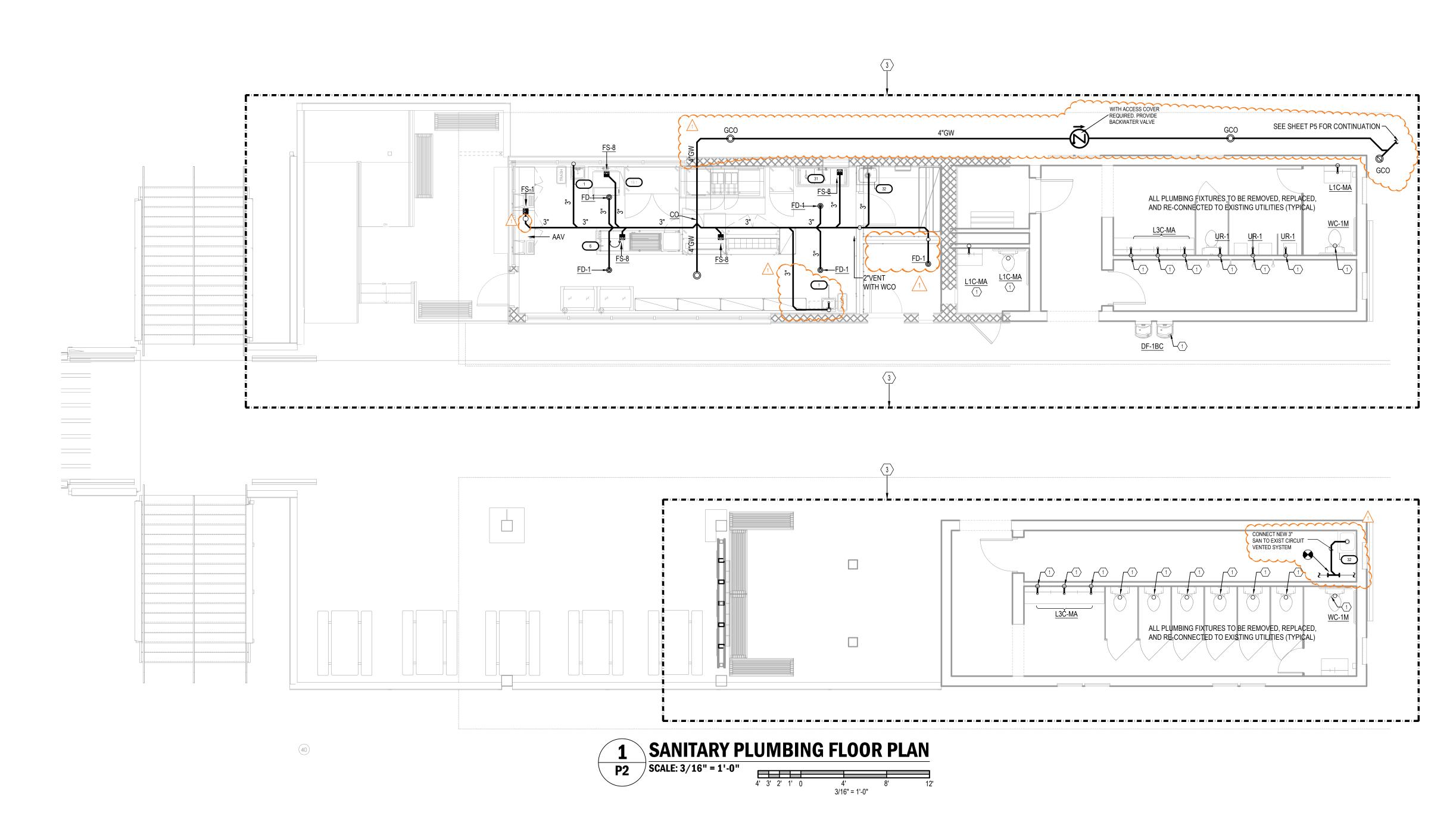
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. GEI	UMBING NOTES & SPECIFICATIONS	DWV PIPING SY	G SYMBOL LEGE /stem
1.1.	THE PLUMBING PLAN SHALL COMPLY WITH INDICATED BUILDING, ENERGY CODE, AND ALL OTHER LOCALLY ADOPTED STANDARDS OR AMENDMENTS.		SANITARY PIPING
1.2.	THESE DRAWINGS WILL NOT BE UPDATED FOR FIELD CHANGES NOT PREVIOUSLY DISCUSSED WITH ENGINEER AND LETTERS TO PASS INSPECTION AS A RESULT OF SUCH DEVIATIONS WILL NOT BE PROVIDED. THESE DRAWINGS REPRESENT THE ENGINEER'S INTERPRETATION OF THE APPLICABLE CODES, HAVE BEEN REVIEWED BY THE LOCAL AHJ FOR CODE CONFORMANCE, AND ARE CONSIDERED CONTRACT DOCUMENTS.	(E)SAN	SANITARY PIPING , EXISTING VENT PIPING
3.	THESE DRAWINGS ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED.	GW	GREASE / WASTE PIPING
1.4.	THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT	DOMESTIC WA	
1.5.	SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL WORK, ETC.). WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A		
1.6.	COMPLETE AND SATISFACTORY OPERATIONAL PLUMBING SYSTEM. ALL EQUIPMENT FIXTURES, ETC. SHALL BE TESTED, ADJUSTED AND OPERATED AS INDICATED ON THE PLANS AND PLACED IN	(E)CW	COLD WATER PIPING
1.0.	SATISFACTORY OPERATIONAL CONDITION BY THE PLUMBING CONTRACTOR. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP. MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN CERTIFICATES.	HW	HOT WATER PIPING
7.	PLUMBING OR PIPING SYSTEMS INDICATED AS BEING UNDER "SEPARATE PERMIT" SHALL BE INTERPRETED AS A SEPARATE PERMIT PULLED BY THE PLUMBING CONTRACTOR WHICH INCLUDES DESIGN / PERMIT FEES, ENGINEERING FEES, UNLESS OTHERWISE DISCUSSED WITH THE GENERAL CONTRACTOR OR ENGINEER.		HOT WATER RE-CIRCULATION LI
.8.	UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY AND SHALL BE U.L. APPROVED IF APPLICABLE, ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.	STORM PIPING	i
1.9.	IN GENERAL, ALL PIPING SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UNLESS NOTED OTHERWISE.	ST	STORM PIPING (BELOW GRADE)
1.10.	VERIFY ALL DIMENSIONS FORM ARCHITECTURAL PLANS FOR FIELD DIMENSIONS. DO NOT SCALE CONSTRUCTION DOCUMENTS.	PRL	PRIMARY ROOF LEADER (ABOVE
1.11.	PROVIDE STOP VALVES OR ANGLE STOP VALVES ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE. PROVIDE UNIONS TO REMOVE, SERVICE, AND REPLACE PLUMBING EQUIPMENT.	GAS PIPING	SECONDARY ROOF LEADER (AB
1.12.	BURIED PIPING NEAR FOUNDATIONS OR BEARING WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE INSTRUCTIONS ON PROTECTION OF PIPES, AND SHALL BE SLEEVED WITH APPROVED MATERIALS.	GAS PIPING	GAS PIPING, NATURAL GAS OR L
1.13.	PLUMBING SYSTEM INSTALLER SHALL PROVIDE ALL STRUCTURAL MEMBERS, SUPPORT BRACKETS, FLASHING, HARDWARE, ETC., REQUIRED TO INSTALL A COMPLETE SYSTEM.	NG	GAS PIPING, NATURAL GAS
.14.	THESE DRAWINGS ARE DIAGRAMTIC. ALL RISES, DROPS, OR OFFSETS IN PIPING NOT NECESSARILY SHOWN. ALL UNDERGROUND	LP	GAS PIPING, LP GAS
1.15.	PIPING SHALL BE INSTALLED WITHIN 1'-0" INCHES (MAX). DO NOT ROUTE ANY PIPING ABOVE ELECTRIC PANELS, SWITCHGEAR, OR EQUIPMENT - OR WITHIN THE MINIMUM CLEAR SPACE FOR	PIPING ROUTIN	
. 1J.	DO NOT ROUTE <u>ANY</u> PIPING ABOVE ELECTRIC PARELS, SWITCHGEAR, OR EQUIPMENT - OR WITHIN THE MINIMUM CLEAR SPACE FOR SWITCH GEAR REQUIRED BY ARTICLE 110 OF THE NEC. THIS INCLUDES INSTALLATIONS WITH A DROPPED (LAY-IN) OR DRYWALL CEILING. COORDINATION WITH ELECTRICAL CONTRACTOR REQUIRED.	O	PIPE RISE, INLINE
<u>SUE</u> 2.1.	MITTALS AND SHOP DRAWINGS SUBMITTALS OR SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR AND ENGINEER FOR REVIEW. THESE	C	PIPE DROP, INLINE
<u></u> .	SUBMITTALS OR SHOP DRAWINGS SHALL INCLUDE ALL EQUIPMENT, MATERIALS, FIXTURES, APPLIANCES, PIPING MATERIALS, ETC. THE SHOP DRAWINGS WILL BE REVIEWED BY THE ENGINEER ON BEHALF OF THE OWNER AND/OR CLIENT, AND APPROVAL OF SHOP		PIPE RISE, INLINE
2.2.	DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THESE DRAWINGS. THE SHOP DRAWINGS SHALL BE HIGHLIGHTED OR MARKED WITH CONSPICUOUS AND OBVIOUS NOTATIONS IDENTIFYING THE	———Э	RISER DROP
.Ζ.	SPECIFIC EQUIPMENT, MATERIALS, FIXTURES, APPLIANCES, PIPING MATERIALS, ETC PROPOSED TO BE USED. SHOP DRAWINGS SUBMITTED TO ENGINEER THAT INCLUDE NON APPLICABLE INFORMATION, OR WHICH DO NOT INCLUDE SPECIFIC NOTATIONS AND/OR		PIPE BOTTOM CONNECTION, 45°
	HIGHLIGHTING WILL NOT BE REVIEWED.	U	TOP CONNECTION, 45 OR 90 DEC
1.	CONTRACTOR SHALL VERIFY ELEVATIONS OF UTILITY CONNECTIONS ON SITE PRIOR TO COMMENCING WORK. THIS SHALL INCLUDE FIELD MEASURING EXISTING INVERT ELEVATIONS TO ENSURE AN SUFFICIENT PIPING DEPTH FOR GRAVITY SYSTEMS		SIDE CONNECTION, TEE
.2.	PLUMBING CONTRACTOR RESPONSIBILITY TO BE TO 5' BEYOND BUILDING LINE FINAL CONNECTION TO SITE UTILITIES TO BE PLUMBER'S RESPONSIBILITY.	<u>+</u>	DWV WYE AND 1/8 BEND
DOI	IESTIC / POTABLE WATER SYSTEMS		SANITARY WYE + 1/8 BEND
.1.	INSULATE ALL DOMESTIC HOT WATER LINES IN ACCORDANCE WITH THE FLORIDA ENERGY CODE (3/4" ARMAFLEX RUBBER INSULATION MINIMUM). FINAL INSULATION THICKNESS TO BE IN ACCORDANCE WITH SYSTEM TYPE AND TEMPERATURE.		CAPPED OUTLET
2.	PROVIDE MAIN SHUTOFF VALVE, RUBBER FACED CHECK VALVE, VACUUM, BREAKER AND HOSE BIB ON COLD WATER MAIN ENTERING THE BUILDING. PROVIDE SHUTOFF VALVE ON THE WATER SUPPLY PIPE TO EVERY WATER HEATER.	PIPING SYS	TEM ACCESSOR
3.	SILLCOCKS, HOSE BIBS, AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE VACUUM BREAKER OR PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER.		
.4.	ALL REFRIGERATOR OR ICE MAKER LOCATIONS TO BE PROVIDED WITH A MINIMUM 1/2" C.W. LINE TO 1/4" PETCOCK 6" ABOVE FLOOR.		FLOOR DRAIN, ROUND
5.	PROVIDE WITH ICE MAKER BOX WITH 1/4 TURN VALVE AND HAMMER ARRESTOR VALVE. AN AIR CHAMBER/SHOCK ABSORBER WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE USED		FLOOR DRAIN, SQUARE
	TO PREVENT WATER HAMMER, SUCH AS ON WASHING MACHINES, ICE MAKERS, DISHWASHERS, AND DRINKING FOUNTAINS. THE ARRESTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, BE ACCESSIBLE, AND SHALL CONFORM TO ASSE 1010.		ROOF/STORM DRAIN
<u>DW</u> .1.	/, STORM , AND CONDENSATE SYSTEM PIPING PROVIDE CLEAN-OUTS AT THE BASE OF EACH STACK, AT EACH 90 DEGREE CHANGE IN HORIZONTAL DIRECTION, AND AT EACH EXIT FROM BUILDING, CLEANOUT COVERS TO BE PROVIDED WHERE INSTALLED IN FINISHED AREA OR CONCEALED BY DRYWALL, NOT ALL		BACKWATER VALVE WITH ACCES
	TROW BOILDING. DELANGOT GOVERG TO BET ROWDED WHERE INGTALLED IN THIS HERA OR GONGEREED BT DRIVINEL. NOT ALL	1	
	CLEANOUTS INDICATED ON DRAWINGS.		PIPE UNION
ō.2.	CLEANOUTS INDICATED ON DRAWINGS. ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM.		PIPE UNION ECCENTRIC REDUCER CONCENTRIC REDUCER
	ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM. ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN		ECCENTRIC REDUCER
i.3.	ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM. ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN ACCESSIBLE BACKWATER VALVE. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/8" MINIMUM, AND 1/4" MAXIMUM. CONDENSATE PIPING SHALL BE DISCHARGED INTO AN INDIRECT WASTE RECEPTOR VIA AIR GAP. CONDENSATE PIPING SYSTEMS DISCHARGING INTO VERTICAL STORM LEADER TO BE		ECCENTRIC REDUCER
3. 4. 5.	ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM. ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN ACCESSIBLE BACKWATER VALVE. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/8" MINIMUM, AND 1/4" MAXIMUM. CONDENSATE PIPING SHALL BE DISCHARGED INTO AN INDIRECT WASTE RECEPTOR VIA AIR GAP. CONDENSATE PIPING SYSTEMS DISCHARGING INTO VERTICAL STORM LEADER TO BE PROVIDED WITH AN INLINE BACK-WATER VALVE. ALL ABOVE GRADE CONDENSATE PIPING TO BE INSULATED WITH 3/4" (MINIMUM) ARMAFLEX RUBBER INSULATION.		ECCENTRIC REDUCER CONCENTRIC REDUCER DIRECTION OF FLOW HOSE BIB WITH VACUUM BREAKI
3. .4. .5. .6.	ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM. ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN ACCESSIBLE BACKWATER VALVE. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/8" MINIMUM, AND 1/4" MAXIMUM. CONDENSATE PIPING SHALL BE DISCHARGED INTO AN INDIRECT WASTE RECEPTOR VIA AIR GAP. CONDENSATE PIPING SYSTEMS DISCHARGING INTO VERTICAL STORM LEADER TO BE PROVIDED WITH AN INLINE BACK-WATER VALVE. ALL ABOVE GRADE CONDENSATE PIPING TO BE INSULATED WITH 3/4" (MINIMUM) ARMAFLEX RUBBER INSULATION. SANITARY PIPING 2" OR LESS IN DIAMETER TO BE SLOPED AT 1/4" PER LINEAR FOOT, 3" THRU 8" IN DIAMETER AT 1/8"		ECCENTRIC REDUCER CONCENTRIC REDUCER DIRECTION OF FLOW HOSE BIB WITH VACUUM BREAKI WALL HYDRANT, ENCLOSED, WIT
5.3. 5.4. 5.5. 5.6. <u>GAS</u>	ALL PRIMARY ROOF DRAINS SHALL BE PROVIDED WITH A SECONDARY STORM DRAIN PIPING SYSTEM IN CASE OF PRIMARY DRAIN BLOCKAGE. THE SECONDARY STORM DRAIN SHALL DISCHARGE ABOVE GRADE IN A CONSPICUOUS LOCATION OR AS INDICATED. SECONDARY STORM DRAIN PIPING SHALL NOT BE COMBINED WITH PRIMARY STORM WATER SYSTEM AND MINIMUM SIZE SHALL BE EQUAL TO PRIMARY DRAIN PIPING SERVICE RESPECTIVE PORTION OF SYSTEM. ALL SANITARY & STORM SYSTEM PIPING WITH OUTLETS LOCATED BELOW BASE FLOOD ELEVATION SHALL BE PROVIDED WITH AN ACCESSIBLE BACKWATER VALVE. ALL CONDENSATE PIPING SHALL BE SLOPED AT 1/8" MINIMUM, AND 1/4" MAXIMUM. CONDENSATE PIPING SHALL BE DISCHARGED INTO AN INDIRECT WASTE RECEPTOR VIA AIR GAP. CONDENSATE PIPING SYSTEMS DISCHARGING INTO VERTICAL STORM LEADER TO BE PROVIDED WITH AN INLINE BACK-WATER VALVE. ALL ABOVE GRADE CONDENSATE PIPING TO BE INSULATED WITH 3/4" (MINIMUM) ARMAFLEX RUBBER INSULATION. SANITARY PIPING 2" OR LESS IN DIAMETER TO BE SLOPED AT 1/4" PER LINEAR FOOT, 3" THRU 8" IN DIAMETER AT 1/8" PIPING SYSTEMS AND EQUIPMENT THE GAS SYSTEM PIPING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FUEL-GAS CODE, NFPA 37,54,50A,51,56,57,58,59A,96,715 - IN ADDITIONAL TO ANY OTHER APPLICABLE STANDARDS OR AMENDMENTS. DISTANCES INDICATED		ECCENTRIC REDUCER CONCENTRIC REDUCER DIRECTION OF FLOW HOSE BIB WITH VACUUM BREAKI WALL HYDRANT, ENCLOSED, WIT BALL VALVE, ACCESSIBLE
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	MARK	DESCRIPTION	COMPONENTS		MANUFACTURER	B. MODEL	BASIS OF DESIGN TRIM & ACCESSORIES			CONN VENT	CTION SIZ	ES HW OTH	REMARKS	
	FS-8C	8"X8" SQUARE CAST IRON PORCELAIN ENAMEL COATED FLOOR SINK, WITH HEEL PROOF NICKEL BRONZE HALF-GRATE STRAINER AND DOME BOTTOM STRAINER		COMPONENTS AND ACCESSORIES FOR A INSTALLATION		861		NE BOTTOM STRAINER.	3"				PROVIDE WITH ASS	
	(1)	STAINLESS STEEL HAND SINK			REFER TO FOOD SERVICE DRAWINGS	SELECTED BY OWNER OR EQUIPMENT PROVIDER			2"	1-1/2"	1/2"	1/2"		
	WC-1M	REFER TO ARCHITECTURAL DRAWINGS	PROVIDE WITH ALL REQUIRED (COMPLETE AND OPERATIONAL	COMPONENTS AND ACCESSORIES FOR A INSTALLATION	REFER TO ARCHITECTURAL DRAWINGS	REFER TO ARCHITECTURAL DRAWINGS	REFER TO ARCHITECT	URAL DRAWINGS	3"	2"	1/2"		ADA COMPLIANT	
	L1C-MA	REFER TO ARCHITECTURAL DRAWINGS	PROVIDE WITH ALL REQUIRED COMPLETE AND OPERATIONAL	COMPONENTS AND ACCESSORIES FOR A INSTALLATION	REFER TO ARCHITECTURAL DRAWINGS	REFER TO ARCHITECTURAL DRAWINGS	REFER TO ARCHITECT	URAL DRAWINGS	2"	1-1/2"	1/2"	1/2"	. <u></u>	
	L3C-MA	REFER TO ARCHITECTURAL DRAWINGS	COMPLETE AND OPERATIONAL		REFER TO ARCHITECTURAL DRAWINGS REFER TO	REFER TO ARCHITECTURAL DRAWINGS REFER TO	REFER TO ARCHITECT	URAL DRAWINGS	1-1/2" EA.	1-1/2" EA.	1/2" EA. 1/	/2" EA		
	-	REFER TO ARCHITECTURAL DRAWINGS	COMPLETE AND OPERATIONAL	COMPONENTS AND ACCESSORIES FOR A INSTALLATION	ARCHITECTURAL DRAWINGS REFER TO FOOD	ARCHITECTURAL DRAWINGS SELECTED BY	REFER TO ARCHITECT	URAL DRAWINGS	(3)	2"	1"			ED TO FLOOR S
	(31)	3-COMPARTMENT STAINLESS STEEL SINK		COMPONENTS AND ACCESSORIES FOR A	SERVICE DRAWINGS	EQUIPMENT PROVIDER SELECTED BY EQUIPMENT	SELECTED BY EQUIPM	IENT PROVIDER	1-1/2" 3"			1/2"	HUB DRAIN VIA AIR	
ADE) GRADE)		ELKAY EZH2O BOTTLEFILLING STATION & BI-LEVEL HIGH EFFICIENCY VANDAL-RESISTANT COOLER		COMPONENTS AND ACCESSORIES FOR A		PROVIDER	PROVIDE WITH WALL	CARRIER AND ANY ADDITION RED FOR INSTALLATION.	AL 2" -	EXIST	1/2" -		- ADA COMPLIANT	
	FD-1	FILTERED REFRIGERATED STAINLESS.		COMPONENTS AND ACCESSORIES FOR A	SIOUX CHIEF	832-35D-NR	ROUND NICKEL-BRON	NCE WITH ADA GUIDELINES R AND ACCESSIBILITY CODE ZE COVER, LEVELING KIT AS			EXIST		PROVIDE WTIH ASS	
			COMPLETE AND OPERATIONAL	INSTALLATION		032-33D-NK	REQUIRED		5				RECTORSEAL MOD	
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ES		CONNECT TO EXISTING	AA AE	V AIR ADMITTANCE VALVE AREA DRAIN	HB HOSE BIBB HD HUB DRAIN		MARK DESCRIPTIO	N MANUFAG		MODEL NU	MBER			
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		 CONNECT TO EXISTING POINT OF INTERFACE BETWEEN CONTRACTORS CONTINUATION OF PIPING OR SYSTEM, ANNOTA DIRECTION OF FLOW 	AA AL AF AF AF AF AF BL BT BT BT	V AIR ADMITTANCE VALVE AREA DRAIN F ABOVE FINISHED FLOOR G ABOVE FINISHED GRADE ACCESS PANEL PROX APPROXIMATE CH ARCHITECTURAL DG BUILDING JH BRITISH THERMAL UNIT /HOUR	HB HOSE BIBB HD HUB DRAIN HW HOT WATER HWR HOT WATER IN. INCH OR INC INV INVERT KW KILOWATT LAV LAVATORY LBS POUNDS	RETURN	MARK DESCRIPTION FCO FLOOR CLEA WCO WALL CLEAN GCO GRADE CLE	N MANUFAG ANOUT WATTS JOUT (INTERIOR) WATTS ANOUT (EXTERIOR) WATTS STOR SCHEDU		MODEL NU				
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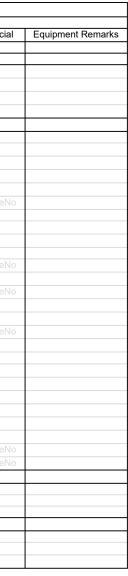


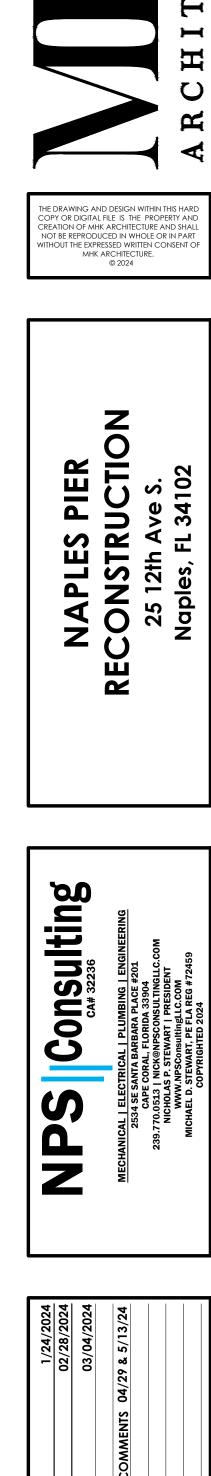


															EQUIPMENT	SCHEDULE											
												ECTRICAL										PLUMBIN					
ItemNo	Quantity	Unit	Category	Mfr	Model	StockModel	Voltage	Phase	Amps	Cycle Hp	p Kw	Connect	tionType	NEMA	ElectricalConnectionHeight	Cold Water (in)	Cold Water C	onn. Height(in)	Hot Water (ir	n) Hot Water Conn.	. Height(in)	Indirect Waste Size	Direct Waste Size	Direct Waste Conn. Height(in)	Gas Size(in)	GasConn.Height(in) Gas MBTU	Special
1	2	ea	Hand Sink	Krowne	HS-26L											1/2"			1/2"				1-1/2"				
	2	ea		Krowne	H-100																		1-1/2"				
2	12	ea		John Boos	EPS-1448-G-X																						
3	2	ea		Custom	POS																						
4	1	ea		Atosa USA, Inc.	MMF9113		115	1	1.6			Cord a	& Plug	5-15P													
5.1	2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1	60 1/5	5	Cord a	& Plug	5-15P													
6	1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1	3.0	60																	
-	1	ea	. .	Cornelius	E400397		115	1		60 1/3	3																
7	1	ea	Work Table, Stainless Steel Top	Advance Tabco	SLAG-308-X																						
8	1	ea		APW Wyott	HR-50		120	1	10.8	60	1.32	Cord a	& Plug	5-15P													
9	1	ea		Hatco	FDWD-1-120-QS		120	1		60			& Plug														
10	1	62		True Mfg General Foodservice	TUC-48D-2-HC		115	1		60 1/5			& Plug	5-15P													
11		Cu	Spare Number	The mg. Contract code the	100-400-2-110		110			00 1/0		00101	a r rag	0-101													SpareNo
12	1	0.0		John Boos	OS-ED-1848-X																						oparento
13	1	63		Hatco	GRAH-42-120-T-QS		120	1		60	05																
17	1	00		True Mfg General Foodservice	TSSU-60-16-HC		115	1		60 1/3		Cord	& Plug	5 15D													
14	1	63		John Boos	OS-ED-1860-X		TIJ	1					our rug	J=TJF													
16		Ga	Spare Number	30111 0003	00-LD-1000-X			_																			SpareNo
17	1	0.2		Atosa USA, Inc.	MMF9110		115	- 1		60		Cord a	& Plug	5-15P													opuloito
10	1	Ed	Spare Number	Alusa USA, IIIC.	IVIIVIE9110		110					Coru	or rug	0-101-													SpareNo
10	4			N.4			445	4		0.0				5.45D		0./01						4.101					Spareno
19.1	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1		60 3/4		O a red (9. Dhurr	5-15P		3/8"						1/2"					
	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1		60 1/4		Cora	& Plug	5-15P													0 N
21			Spare Number									0.1	0.01											_			SpareNo
	1	ea		True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60 1/2	2	Cord a	& Plug	5-15P													
	1	ea		Accurex																							
24	1	ea		Bakers Pride	P44S		208	1		60			& Plug	6-50P													
25	1	ea		True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60 1/6		Cord a	& Plug	5-15P													
26	2	ea		Imperial	IFS-40-E						14.0																
	2			Imperial			208	1	68		14																
27	1	ea		Imperial	ITG-24-E		208	3	29.0																		
28	5	ea	Wire Shelving	John Boos	EPS-1830-G-X																						
29			Spare Number																								SpareNo
30			Spare Number																								SpareNo
31	1	ea	Three (3) Compartment Sink	John Boos	3B184-X																						
	1	ea		John Boos	3B184-X						_																
	1	ea		John Boos	3B184-X																						
	1	ea		Krowne	18-708L											1/2"			1/2"								
32	1	ea	Mop Sink	Krowne	MS-2424																		2"				
	1	ea		Krowne	16-127											1/2"			1/2"								
33	1	ea		Hubbell	JTX031-6RS		208	1	149										3/4"								
34	5	ea	Wire Shelving	John Boos	EPS-2472-G-X																						

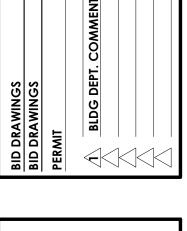
KEYED SHEET NOTES

- 1 REMOVE EXISTING PLUMBING FIXTURE AND REPLACE WITH NEW. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR COMPLETE ISNTALLATION
- 2 OMITTED
- ∐IMIT OF WORKSCOPE COVERED BY THIS DRAWING SET. REFER TO DESIGN DRAWINGS PROVIDED AND DESIGNED BY OTHERS. COORDINATE WORK SCOPE WITH GENERAL CONTRACTOR.

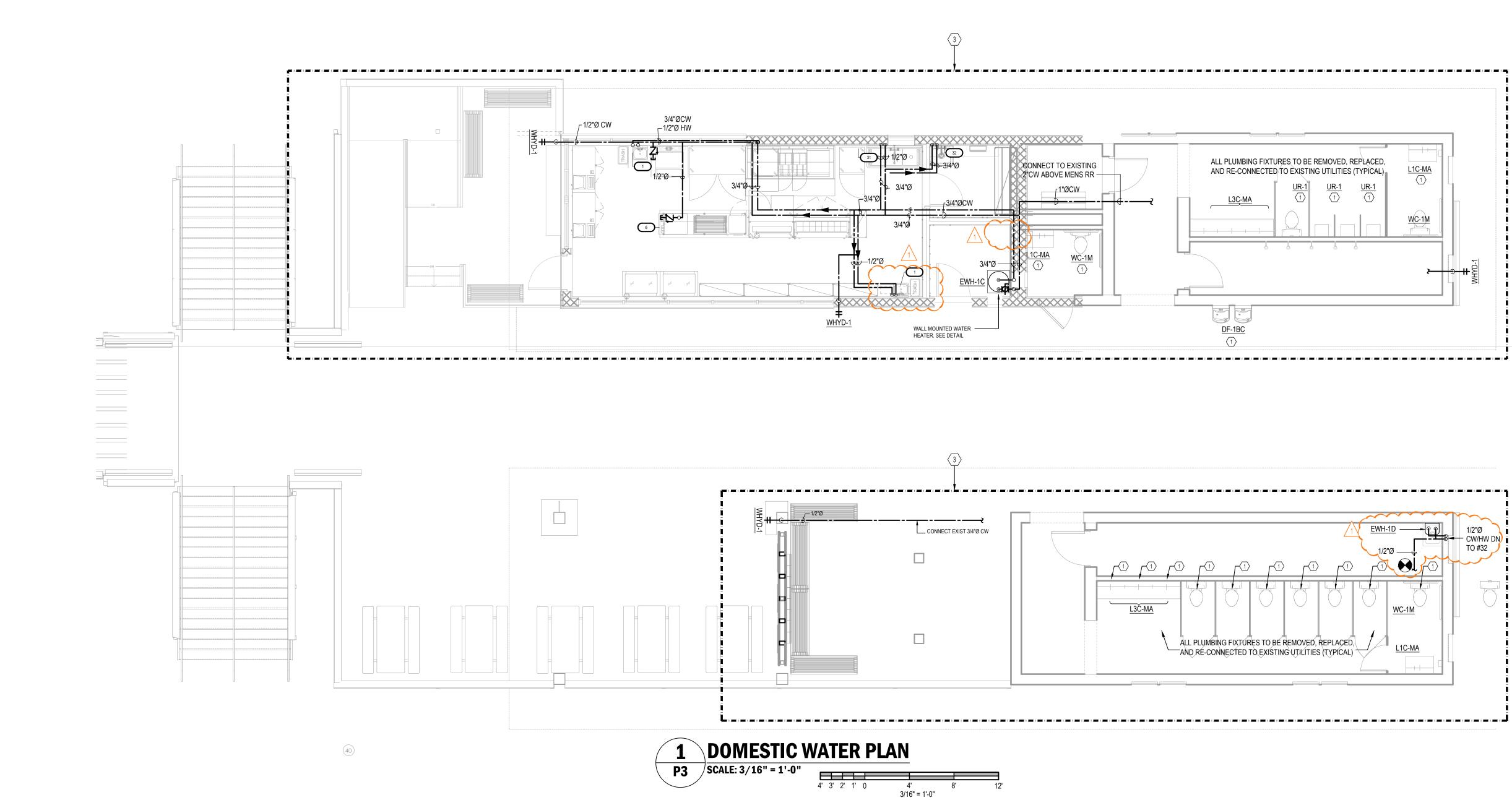




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													EQUIPMENT	SCHEDULE											
										E	ELECTRICAL			PLUMBING t Cold Water (in) Keight(in) Hot Water (in) Hot Water Conn. Height(in) Indirect Waste Size Direct Waste Size Direct Waste Conn. Height(in) Gas Size(in) Gas Conn. Height(in) Gas MBTU Special Equipment Rem											
ItemNo	Quantity	ity Uni	t Category	Mfr	Model	StockModel	I Voltage	Phase Ar	mps Cy	cle Hp Kv	W ConnectionTyp	e NEMA	A ElectricalConnectionHeight	Cold Water (in)	Cold Water Conn. Height(in)	Hot Water (in)	Hot Water Conn. Height(in)	Indirect Waste Size	Direct Waste Size	Direct Waste Conn. Height(in)	Gas Size(in) Gas	Conn.Height(in)	Gas MBTU S	pecial Equipmer	nt Remark
1	2	ea		Krowne	HS-26L									1/2"		1/2"			1-1/2"						
	2	ea		Krowne	H-100														1-1/2"						
2		ea	Wire Shelving	John Boos	EPS-1448-G-X																				
3	2	ea	POS System	Custom	POS																				
4	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9113		115	1 1			Cord & Plug	5-15F	P												
5.1	2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LE	D	115	1 2	2.1 6	0 1/5	Cord & Plug	5-15F	P												
6	1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1 3	3.0 6	0															
	1	ea		Cornelius	E400397		115	1 6	6.5 6	0 1/3															
7	1	ea	Work Table, Stainless Steel Top	Advance Tabco	SLAG-308-X																				
8	1	ea	Hot Dog Grill	APW Wyott	HR-50		120	1 1		0 1.3		5-15F	P												
9	1	ea	Display Case, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1 1	1.6 6	0 1.3	39 Cord & Plug														
10	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1		0 1/5	Cord & Plug	5-15F	P												
11			Spare Number																				S	oareNo	
12	1	ea	Overshelf	John Boos	OS-ED-1848-X																				
13	1	ea	Heat Lamp	Hatco	GRAH-42-120-T-QS	S	120	1			5														
14	1	ea	Sandwich / Salad Preparation Refrigerator	True Mfg General Foodservice	TSSU-60-16-HC		115	1 6		0 1/3	Cord & Plug	5-15F	P												
15	1	ea	Overshelf	John Boos	OS-ED-1860-X																				
16			Spare Number																				S	bareNo	
17	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9110		115	1 1			Cord & Plug	5-15F	P												
18			Spare Number																				S	bareNo	
19.1	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1 1		0 3/4		5-15F	P	3/8"				1/2"							
20.1	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4 6	0 1/4	Cord & Plug	5-15F	P												
21			Spare Number																				S	pareNo	
22	1	ea	Reach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1 3		0 1/2	Cord & Plug	5-15F	P												
23	1	ea		Accurex																					
24	1	ea	Pizza Bake Oven, Countertop, Electric	Bakers Pride	P44S		208	1 3	4.6 6		Cord & Plug		P												
25	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2 6	0 1/6	Cord & Plug	5-15F	P												
26	2	ea	Electric Floor Fryer	Imperial	IFS-40-E					14	.0														
				Imperial			208	1 (0 14	4														
27	1	ea	Griddle, Electric, Countertop	Imperial	ITG-24-E		208	3 2			0														
28		ea	Wire Shelving	John Boos	EPS-1830-G-X																				
29			Spare Number																				S	pareNo	
30			Spare Number																				S	pareNo	
31	1	ea	Three (3) Compartment Sink	John Boos	3B184-X																				
	1	ea		John Boos John Boos	3B184-X																				
	1	ea			3B184-X																				
	1	ea	N	Krowne	18-708L									1/2"		1/2"									
32	1	ea	Mop Sink	Krowne	MS-2424														2"						
0.0	1	ea	Departur Heater, Taraking, Elect 1	Krowne	16-127		000	4	40 0		4			1/2"		1/2"									
33	1	ea	Booster Heater, Tankless, Electric	Hubbell	JTX031-6RS		208	1 1	49 6	0 3	1					3/4"									
34	5	ea	Wire Shelving	John Boos	EPS-2472-G-X																				

KEYED SHEET NOTES

REMOVE EXISTING PLUMBING FIXTURE AND REPLACE WITH NEW. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. PROVIDE WITH NEW QUARTER-TURN SUPPLY VALVES.

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LIMIT OF WORKSCOPE COVERED BY THIS DRAWING SET. REFER TO DESIGN DRAWINGS PROVIDED AND DESIGNED B OTHERS. COORDINATE WORK SCOPE WITH GENERAL CONTRACTOR.

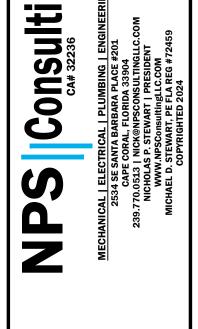


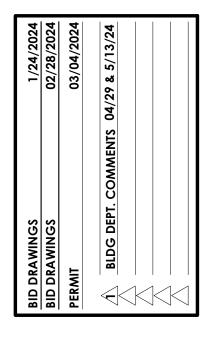
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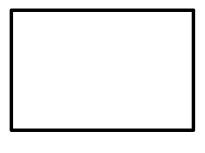
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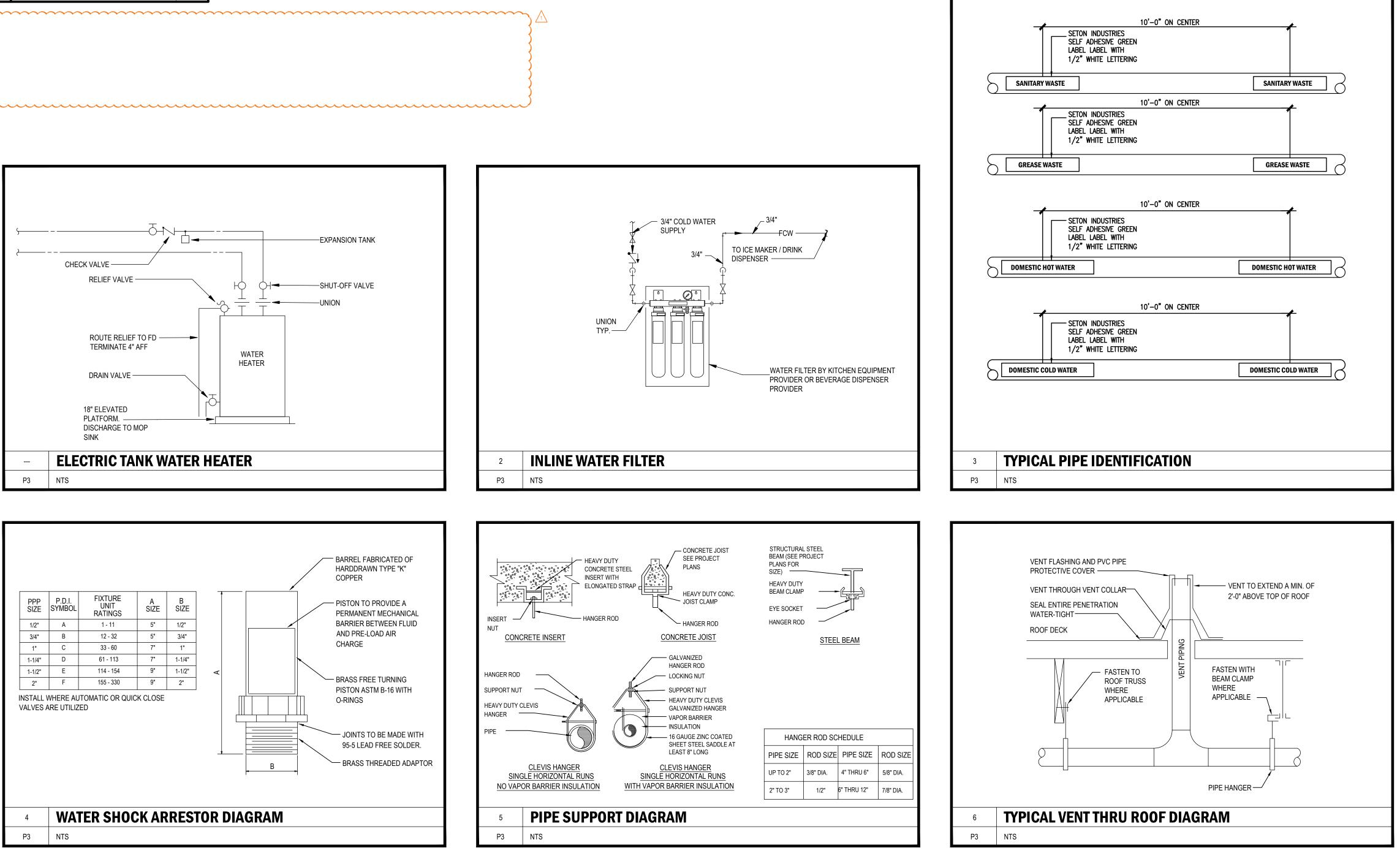


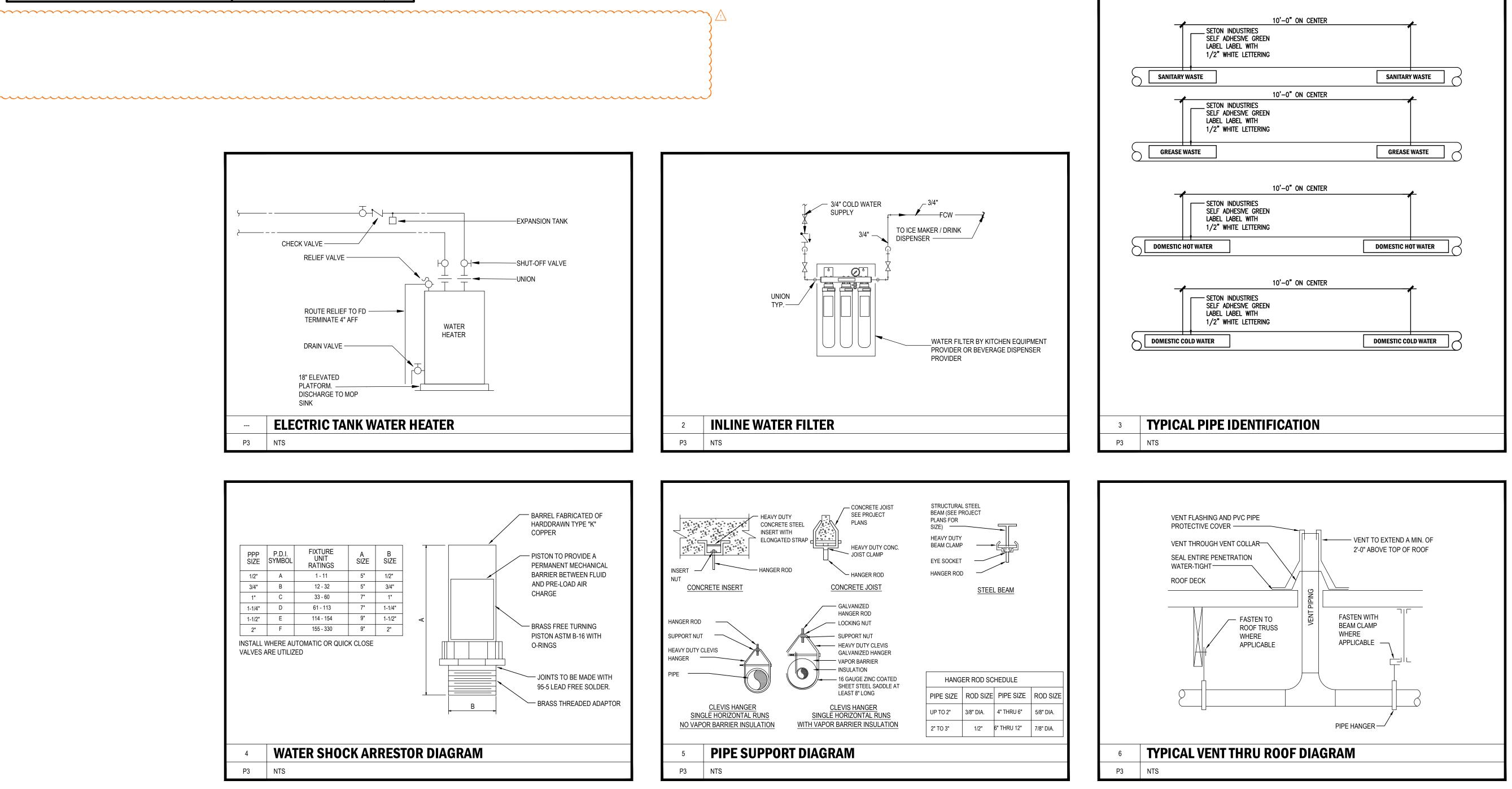


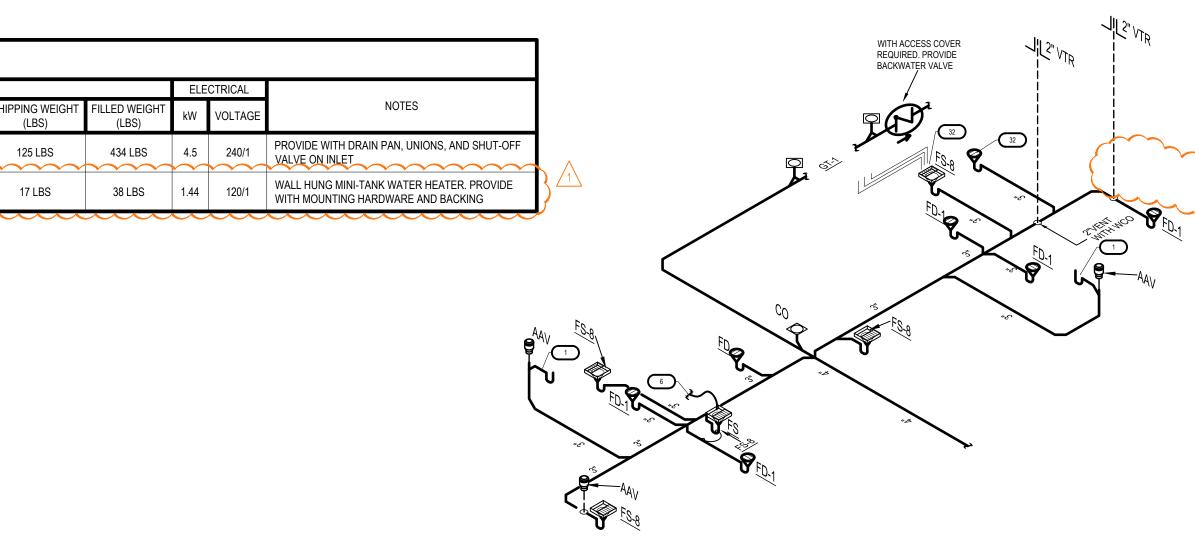
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				EL	ECTRIC	WATE	R HEATER S	CHEDULE	
		BASIS OF DESIGN		PERFORMANCE	EFFICIENCY	PHYSICAL DATA			
MARK	MANUFACTURER - MODEL	DESCRIPTION	CONNECTIONS SIZES (Ø)	GPH (@90° RISE)	UEF	GALLONS (NOMINAL)	DIAMETER x HEIGHT (INCHES)	GALLONS (ACTUAL)	SHI
EWH-1C	AO SMITH ENS-40	ELECTRIC TANK TYPE STORAGE WATER HEATER, SHORT	3/4"X3/4"	20.7	0.92	40.0	21"/50"	37.0	
EWH-1D	AO SMITH EPU-2.5	MINI ELECTRIC TANK TYPE STORAGE WATER HEATER.	3/4"X3/4"	6.62	N/A	2.5	12"DX15"W	2.5	

			PDI G101 FIXTU	RE FLOW RATE E	Y VOLUME			
		FOF	Rmula A: GPM =	((W)x(L)x(D)x(Cn)	x(Cm)x(Qn))/231			
TAG OR IDENTITY	DESCRIPTION	(W) WIDTH	(L) LENGTH	(D) DEPTH	(Cn) NUMBER OF COMPARTMENTS	(Cm) CAPACITY MULTIPLIER	(Qn) FIXTURE QUANTITY	
1	3 COMPARTMENT SINK	18	18	14	3	0.75	1	10206
2	HAND SINK	10	8	6	1	0.75	1	360
3	MOP SINK	20	18	8	1	0.75	1	2160
							TOTAL CUBIC INCHES	12726
						GPM CONVERSIO	N CONSTANT	231
						GPM CONVERSIO SUB-TOTAL FOR		231 55.1
		F		ATE BY TRAP SIZ				
TAG OR IDENTITY	DESCRIPTION	F (Ts) TRAP SIZE						-
TAG OR IDENTITY FS-8	DESCRIPTION FLOOR SINK		FORMULA B	: GPM = (Df)x(Qn) (Qn)	/(DGM)	SUB-TOTAL FOR		55.1 SUB-TOT
		(Ts) TRAP SIZE	FORMULA B	: GPM = (Df)x(Qn) (Qn) QUANTITY	/(DGM) TOTAL DFU	SUB-TOTAL FOR (DGM) DFU / GPM		55.1 SUB-TOT GPM
FS-8	FLOOR SINK	(Ts) TRAP SIZE 3"	FORMULA B (Df) DFU 5	: GPM = (Df)x(Qn) (Qn) QUANTITY 4	/(DGM) TOTAL DFU 20	SUB-TOTAL FOR (DGM) DFU / GPM 2		55.1 SUB-TOT GPM 10
FS-8	FLOOR SINK	(Ts) TRAP SIZE 3"	FORMULA B (Df) DFU 5	: GPM = (Df)x(Qn) (Qn) QUANTITY 4	/(DGM) TOTAL DFU 20 25	SUB-TOTAL FOR (DGM) DFU / GPM 2	MULA A GPM	55.1 SUB-TOT GPM 10
FS-8	FLOOR SINK	(Ts) TRAP SIZE 3"	FORMULA B (Df) DFU 5	: GPM = (Df)x(Qn) (Qn) QUANTITY 4	/(DGM) TOTAL DFU 20 25 GRAND TOTAL GPM =	SUB-TOTAL FOR (DGM) DFU / GPM 2 2 2	MULA A GPM	SUB-TOT GPM 10 12.5

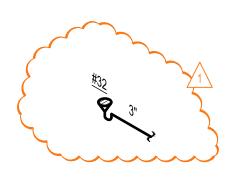


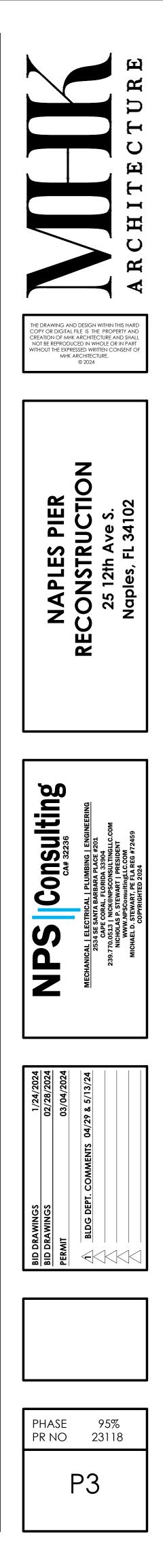




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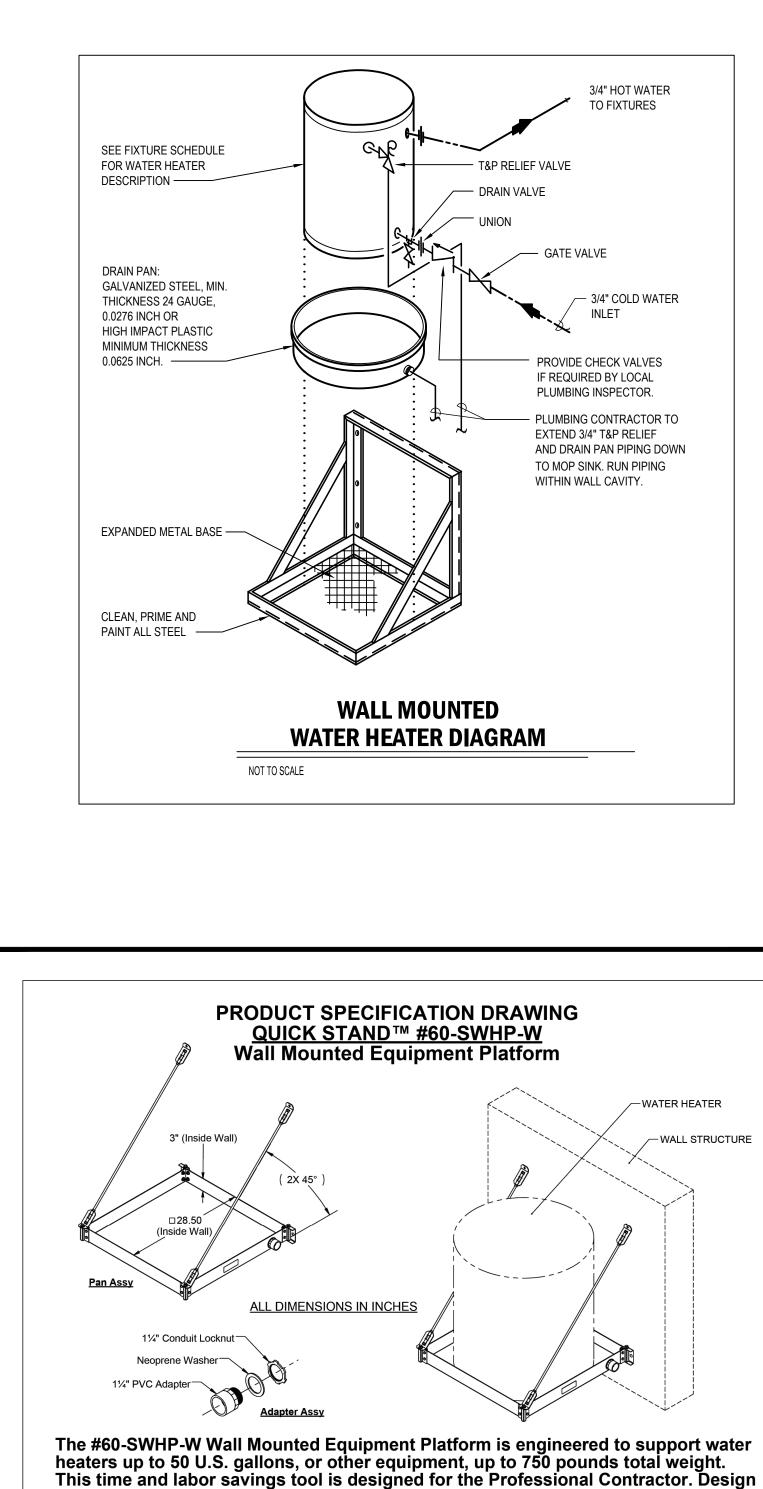


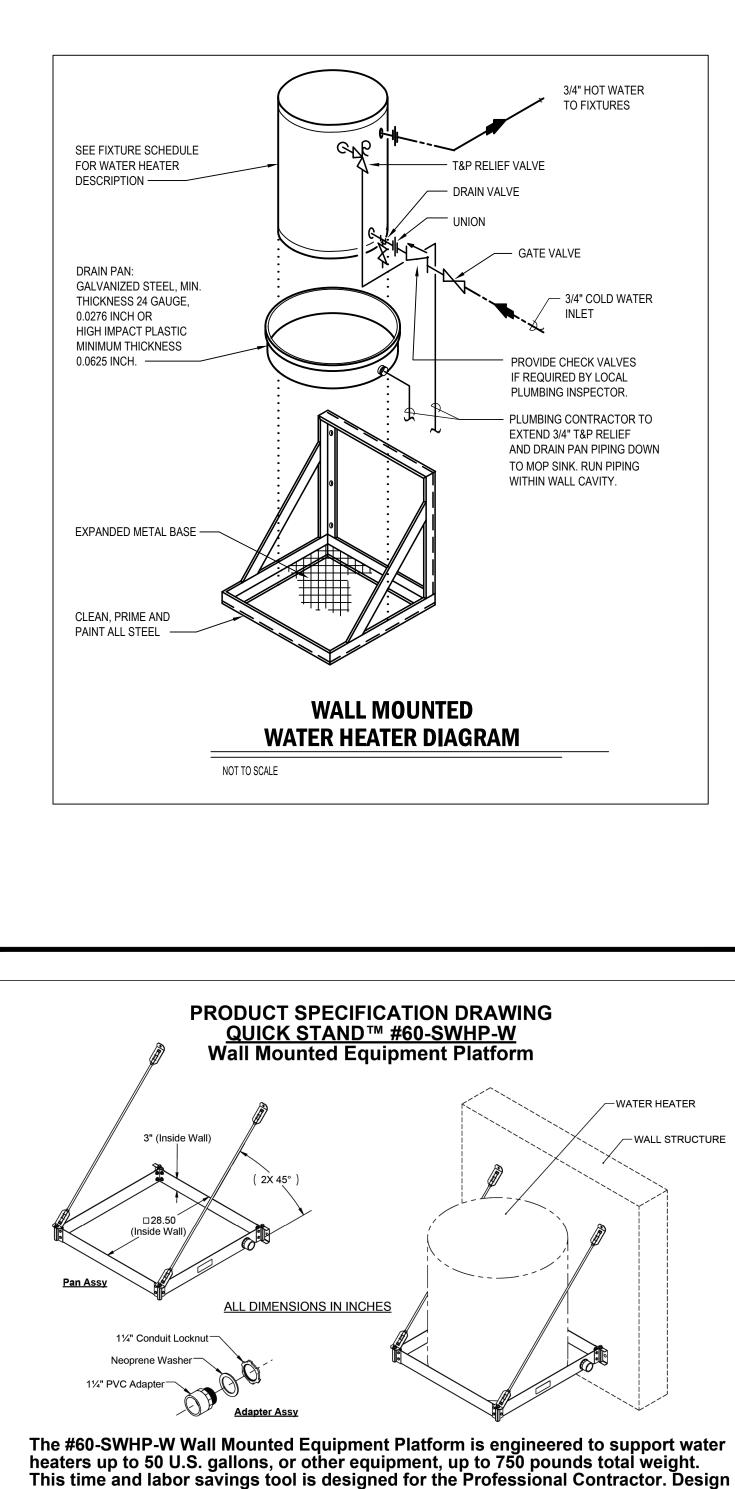


<image/> <text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	 Cooling Unit: copper tubing meets UL requisite Refrigerant Co accurately calities Refrigerant Co accurately calities Refrigerant Co accurately calities Temperature of adjustable the 	or is permanently lubricated. Combination tube-tank type. Continuous with is fully insulated with EPS foam that irrements for self-extinguishing material. partol: Refrigerant R-134a is controlled by brated capillary tube. partol: Easily accessible enclosed mostat is factory preset. Requires no ter than for altitude requirements. rics Elkay WaterSentry Replacement Filter (Bottle Fillers & Liv Pro) Spec Sheet (PDF) Cane Apron for HAC HVR EMABF & VRC Models (Stainless) Spec Sheet (PDF) Power Block for Multistation Bottle Filling Stations Spec Sheet (PDF) WaterSentry 6000 CTO Replacement Filter (2pack) Spec Sheet (PDF)	
<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>	accurately cali operation. • Temperature (adjustable the adjustment off Optional Accesso 51300C 98324C 36292C	brated capillary tube for positively trouble-free Control: Easily accessible enclosed rmostat is factory preset. Requires no her than for altitude requirements.	
<section-header><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></section-header>	<u>51300C</u> <u>98324C</u> <u>36292C</u>	Elkay WaterSentry Replacement Filter (Bottle Fillers & Liv Pro) Spec Sheet (PDF) Cane Apron for HAC HVR EMABF & VRC Models (Stainless) Spec Sheet (PDF) Power Block for Multistation Bottle Filling Stations Spec Sheet (PDF) WaterSentry 6000 CTO Replacement Filter (2pack)	
The first and the field. Image product specifications without notice. Please visit elkay.com for the kay product with design, quality, and functional benefits to the user:	<u>98324C</u> <u>36292C</u>	Spec Sheet (PDF) Cane Apron for HAC HVR EMABF & VRC Models (Stainless) Spec Sheet (PDF) Power Block for Multistation Bottle Filling Stations Spec Sheet (PDF) WaterSentry 6000 CTO Replacement Filter (2pack)	
A112.19.3/CSA B45.4 SA C22.2 No. 120 Spece No 142, 53, 61 (Q≤1), & 372 (lead free)	<u>36292C</u>	Spec Sheet (PDF) Power Block for Multistation Bottle Filling Stations Spec Sheet (PDF) WaterSentry 6000 CTO Replacement Filter (2pack)	
NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q≤1), & 372 (lead free) NSI 42, 53, 61 (Q		Spec Sheet (PDF) WaterSentry 6000 CTO Replacement Filter (2pack)	
<text><text><text><text><text><text></text></text></text></text></text></text>		WaterSentry 6000 CTO Replacement Filter (2pack)	
tion Instructions (PDF) - 1000001742 Limited Warranty on the refrigeration system of the unit. cal components and water system are warranted for 12 months ate of installation. Warranty pertains to drinking water applications are not d under warranty. ations only. Non-drinking water applications are not d under warranty. tty (PDF) wange product specifications without notice. Please visit elkay.com for ne Elkay product with design, quality, and functional benefits to the user. overlooked. @Elkay.com © 2023 Page 1	WSF6000R-2PK	Spec Sheet (PDF)	
ate of installation. Warranty pertains to drinking water applications are not ations only. Non-drinking water applications are not d under warranty. ty (PDF) anage product specifications without notice. Please visit elkay.com for n Elkay product with design, quality, and functional benefits to the user. overlooked. @Elkay.com © 2023 Page 1			
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n Elkay product with design, quality, and functional benefits to the user. overlooked. @Elkay.com © 2023 Page 1			
n Elkay product with design, quality, and functional benefits to the user. overlooked. @Elkay.com © 2023 Page 1			
© 2023 Page 1	In keeping with our polic the most current version	cy of continuing product improvement, Elkay reserves the right to change product specificatio of Elkay product specification sheets. This specification describes an Elkay product with desi	ons without notice. Please visit elkay.com on quality and functional benefits to the u
Tents LVRCGRN1L8WSK spec.pdf	When making a compar Elkay REV 10272023 LVRCGRNTL8WSK	ison of other producers' offerings, be certain these features are not overlooked.	© 2023 Pa LVRCGRNTL8WSK_spec
	-1BC		

ELK SPECIFICAT		•
antimicrobial agents, hel surfaces. COOLING SYSTEM • Compressor: H single phase. S • Condenser: Fa fins. Fan motor • Cooling Unit: C copper tubing w meets UL requi • Refrigerant Con accurately calib • Refrigerant Con accurately calib operation. • Temperature Co adjustable therr	e in refence to components manufactured lping to provide clean, stain- and odor-free ermetically-sealed, reciprocating type, Sealed-in lifetime lubrication. n cooled, copper tube with aluminum r is permanently lubricated. combination tube-tank type. Continuous <i>r</i> ith is fully insulated with EPS foam that rements for self-extinguishing material. htrol: Refrigerant R-134a is controlled by rated capillary tube. htrol: Refrigerant HFC-134a is controlled by rated capillary tube for positively trouble-free control: Easily accessible enclosed mostat is factory preset. Requires no er than for altitude requirements.	
Optional Accessori	ies	
<u>51300C</u>	Elkay WaterSentry Replacement Filter (Bottle Fillers & Liv Pro) Spec Sheet (PDF)	
<u>98324C</u>	Cane Apron for HAC HVR EMABF & VRC Models (Stainless) Spec Sheet (PDF)	
<u>36292C</u>	Power Block for Multistation Bottle Filling Stations Spec Sheet (PDF)	

the most current version of Elkay produ	product improvement, Elkay reserves the right to change product specifications ct specification sheets. This specification describes an Elkay product with design, oducers' offerings, be certain these features are not overlooked.	
Elkay REV 10272023	1-800-260-6640 <u>SVtechservice@Elkay.com</u>	© 2023 Page 2
<u>LVRCGRNTL8WSK</u>	Patent <u>zurn-elkay.com/patents</u>	LVRCGRNTL8WSK_spec.pdf





Product Information:

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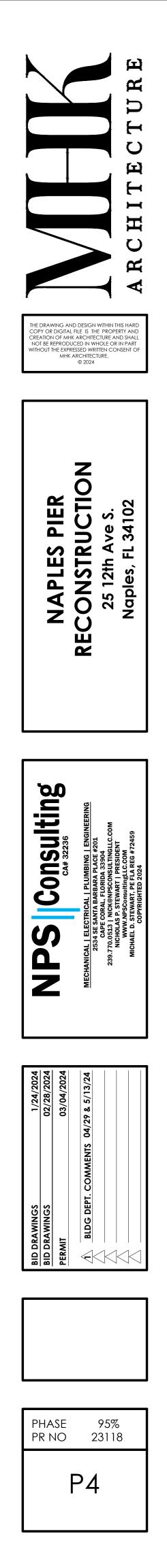
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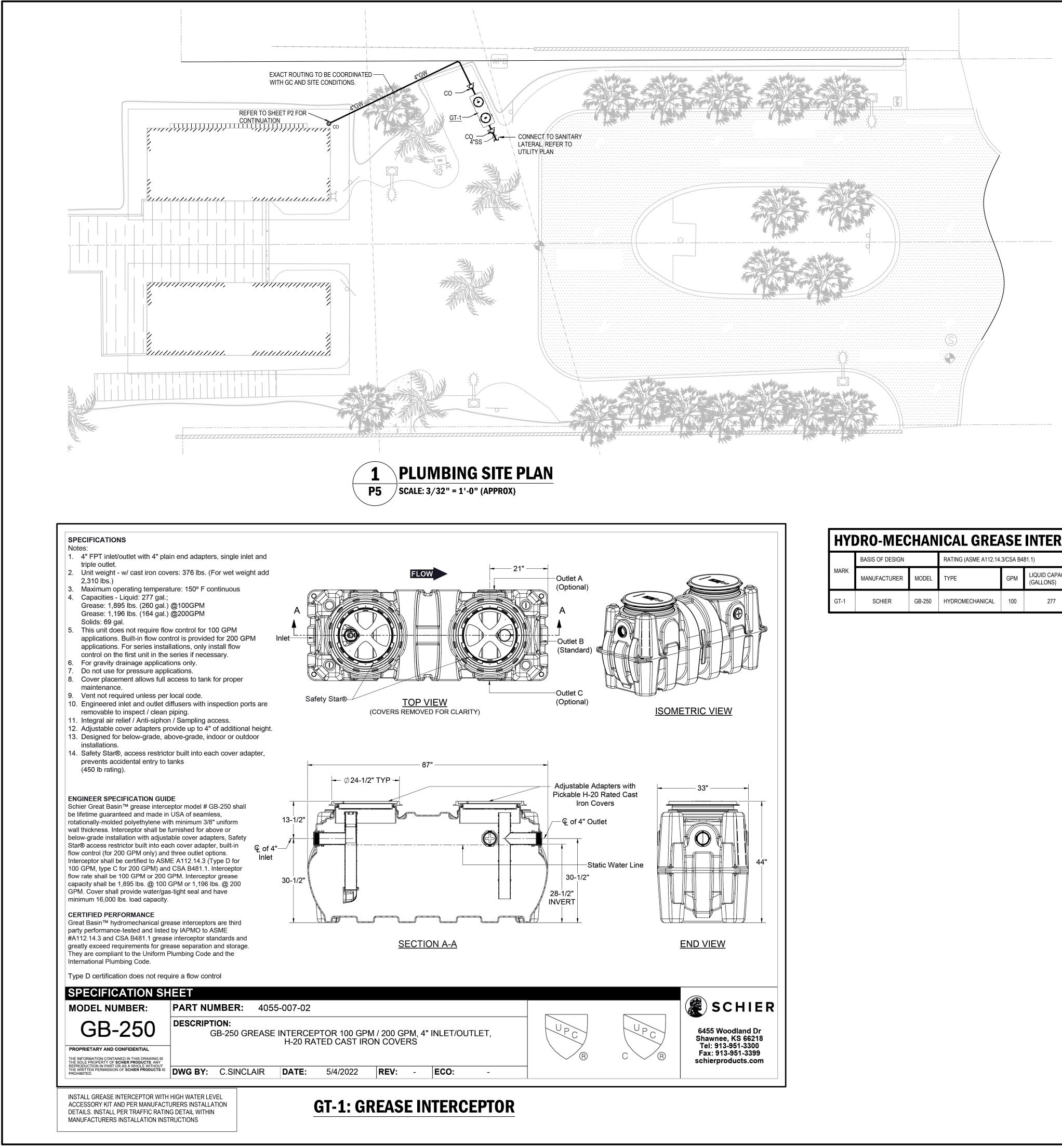
Material: Pan: 12 gage CRS, g Corner Brackets (4): C-Brackets (2): 16 ga 45° Brackets (4): 12 g Threaded Rod (2): Lo
Wide platform allows wa
Watertight corners and
Static load rating 750 po
Professional Engineer s

- Includes PVC drain bo Suspends with user-su
- Installation instruction
- Patent Pending

The #60-SWHP-W Wall Mounted Equipment Platform is engineered to support water heaters up to 50 U.S. gallons, or other equipment, up to 750 pounds total weight. This time and labor savings tool is designed for the Professional Contractor. Design features requested by plumbers are incorporated into a professional platform and drain pan combination.

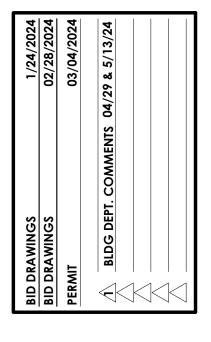
, galvanized): 14 gage CRS, galvanized	
gage ČŘS, galvanized 2 gage, CRS, galvanized Low carbon steel, zinc plated, 3/8" x 40.0" long	"C" Bracket, 2 places
water heaters up to 28 ½" diameter	
d sealed 1 ¼" PVC drain body eliminate need for additional drain pan	
pounds with 2X safety factor (depending on structural anchorage)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
r stamped documentation available	45° Bracket, 4 places
ody 1¼" MIPT x 1¼" FS	Product Submittal
upplied 3/8" hardware/anchors to mount to wall, 4 places	Job Name:
s for mounting to concrete or framed wall structure available	Date: Part Number: Qty:
THIS INFORMATION IS PROPRIETARY TO HOLDRITE AND IS SUBJECT TO CHANGE WITHOUT NOTICE. IT MAY NOT BE REPRODUCED IN PART OR WHOLE WITHOUT WRITTEN AUTHORIZATION.	Architect / Owner:
HOLDRITE	Contractor: Notes:
CONVERTING MAKESHIFT METHODS INTO ENGINEERED SOLUTIONS ⁵⁴	
800-321-0316 OR 760-744-6944 / FAX: 760-744-0507 / WWW.HOLDRITE.CC spec_60-SWHP-W_RevB	DM

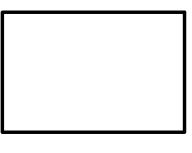




HYI	DRO-MEC	HYDRO-MECHANICAL GREASE INTERCEPTOR SCHEDULE												
	BASIS OF DESIGN		RATING (ASME A112.14.3/CSA B481.1)						WEIGHT					
MARK	MANUFACTURER	MODEL	TYPE GPM LIQUID CAPACITY SOLIDS CAPACITY (GALLONS) LOCATION RATING					MATERIAL	(DRY)	NOTES				
GT-1	SCHIER	GB-250	HYDROMECHANICAL	100	277	69	OUTDOOR	POLYETHYLENE	376	INSTALL USING MANUFACTURERS TRAFFIC RATING DETAIL WHEN INSTALLED IN VEHICULAR AREAS.				

ABCHTECTURE
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	MECHANICAL SPECIFICATIONS (FMC 2023)			BASIS OF	DESI	IGN
Ι.	THE MECHANICAL CONTRACTOR SHALL COMPLY WITH INDICATED BUILDING CODES. THIS SHALL INCLUDE THE MECHANICAL CODE, ENERGY CODE, AND ALL LOCAL CODES AS MAY BE APPLICABLE. SIX SHOP DRAWING SUBMITTALS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED FOR APPROVAL PRIOR TO ORDERING AND PROCUREMENT OF SAME.	MARK	LOCATION	MANUFACTURER		MOD
<u>2</u> .	MECHANICAL PLANS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO INDICATE CAPACITY, SIZE, LOCATION, DIRECTION, AND GENERAL ARRANGEMENT, BUT NOT EXACT DETAILS OF CONSTRUCTION. THE FACT THAT ONLY CERTAIN FEATURES OF THE INSTALLATION ARE INDICATED MUST NOT BE TAKEN TO MEAN THAT OTHER SIMILAR OR DIFFERENT FEATURES WILL NOT BE REQUIRED. ALL RISES, DROPS, OFFSETS, & SLOPES IN PIPING AND DUCTWORK NOT NECESSARILY SHOWN.	ACR-1 ACR-2	SEE PLAN SEE PLAN	POWERED AIR		MP MP
3.	WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL AIR CONDITIONING SYSTEM.					
4.	THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO INSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, ELECTRICAL, ETC.).			YSTEM FCU	I SC	ЭН
	VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS.	SERVE	DESIGNATION TAG S FACTURER			
	UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.	MODE				
7.	CONTRACTOR SHALL FURNISH AND INSTALL CURBS AND BASES FOR ALL EQUIPMENT AS SHOWN ON PLAN. THIS CONTRACTOR SHALL CONFIRM ALL CURB REQUIREMENTS AND THEIR SIZES.	NOMIN				
i.	PROVIDE INSULATION FOR REFRIGERANT LINES SIMILAR TO ARMAFLEX. WEATHER-EXPOSED INSULATION TO BE PROVIDED WITH WEATHER PROOF COATING AS RECOMMENDED BY MANUFACTURER. EXPOSED CONDENSATE LINES THOSE CONCEALED IN WALLS AND CEILINGS TO BE PROVIDED WITH SAME TYPE OF INSULATION.	EXTER	NAL STATIC PRESS SIONS	OLING (H / M / L / SL) JRE		
	EQUIPMENT AS PER SCHEDULED OR PER THE LIST OF ACCEPTABLE MANUFACTURERS BELOW:	NOTES				
	A/C EQUIPMENT: UPON APPROVAL ONLY A/C GRILLES: PRICE, KREUGER, TITUS FANS: GREENHECK, LOREN COOK, PENN. WALL LOUVERS: POTTORFF, PRICE, RUSKIN.	2. M/ 3. FA	ATCH SCHEDULED S	KIN RA SPLIT SYSTEM EER / EER RATING LIS ROVIDED BY THE CON E-LITE THERMOSTAT I	TED IN	ING L
).	ALL EQUIPMENT AND APPLIANCES SHALL BE STARTED, TESTED, ADJUSTED AND BALANCED FOR AIR DELIVERY AS INDICATED ON THE PLANS, AND PLACED IN SATISFACTORY OPERATIONAL CONDITION BY THE MECHANICAL CONTRACTOR. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. THIS IS IN ADDITION TO ANY WARRANTY OR GUARANTEE FROM THE EQUIPMENT MANUFACTURER. FURNISH THE OWNER WITH THE MANUFACTURER'S WRITTEN WARRANTEE CERTIFICATES.	6. PF 7. PRC	OVIDE A 5-YEAR LI	ATE PUMP MN: DACA-(MITED PARTS WARRAN RANT BALL VALVES F	ity. O	EPLA
1.	ALL EQUIPMENT SHALL BE TESTED & BALANCED BY A NEBB CERTIFIED TEST AND BALANCE CONTRACTOR AND A COMPLETE REPORT SHALL BE PROVIDED TO THE ARCHITECT, ENGINEER, AND GENERAL CONTRACTOR. THE TEST SHALL BE DATED,	SYSTEM [DESIGNATION TAG		501	
	INCLUDE INDOOR/OUTDOOR AMBIENT TEMPERATURES, AND SIGNEER, AND GENERAL CONTRACTOR. THE TEST SHALL BE DATED, INCLUDE INDOOR/OUTDOOR AMBIENT TEMPERATURES, AND SIGNED BY THE PERSON RESPONSIBLE FOR THE REPORT. THE TEST & BALANCE CONTRACTOR SHALL BE INDEPENDENT OF AND HIRED BY THE MECHANICAL CONTRACTOR. THE TEST AND BALANCE CAN NOT BE OMITTED OR VALUE ENGINEERED FOR COST SAVINGS. THE TEST & BALANCE SHALL INCLUDE ENTERING/LEAVING AIR TEMPERATURES (DB/WB), EXTERNAL / TOTAL STATIC PRESSURE, TOTAL AIR FLOW RATES ENTERING AND LEAVING EQUIPMENT, AIRFLOW RATES FOR ALL SUPPLY, RETURN, EXHAUST, INTAKE OR SIMILAR AIR MOVEMENT DEVICES. THE TEST & BALANCE SHALL LIST INITIAL & FINAL AIRFLOWS FOR ALL TESTED DEVICES.	MODE FA DU RATEL	ACTURER			
<u>}</u> .	ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED WITH SPRING ISOLATORS.	EFFICI	ENCY (NON-DUCTEI ENCY (MIXED) ENCY (DUCTED)			
	ALL EQUIPMENT SHALL BE LOCATED WITH ADEQUATE CLEARANCES FOR FILTER REMOVAL, REPAIR, AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT.	AHRI (NON-DUCTED) MIXED)			
	ALL EQUIPMENT SHALL BE MOUNTED AND SECURED TO WITH-STAND HURRICANE WIND CODE.	COMP	DUCTED) RESSOR RICAL SERVICE			
j.	PROVIDE FLEXIBLE DUCT CONNECTIONS FOR SHEET METAL DUCTS FOR ALL AIR HANDLING UNITS AND EXHAUST FANS.	MI	NIMUM CIRCUIT AM			
j.	ALL CONTROL AND LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.		; AX PIPE LENGTH AX PIPE LENGTH (VE			
7.	DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UNLESS NOTED OR INDICATED OTHERWISE. ROUTING SHALL BE COORDINATED WITH TRUSS SHOP DRAWINGS. DO NOT INSTALL ANY DUCTWORK OR PIPING OF ANY KIND ABOVE ELECTRICAL PANEL.	M/ G/ Ll0	AX HT DIFF (IDU TO I AS CONNECTION QUID CONNECTION D PRESSURE (COOL	DU)		
	ALL DUCTWORK, INSTALLATION AND EQUIPMENT SHALL MEET SMACNA AND ENERGY CODE REQUIREMENTS.	DIMEN	SIONS			
9.	RIGID FIBERGLASS DUCTWORK SHALL BE EQUAL TO MANVILLE "SUPERDUCT", R-6 DUCT FOR DUCTWORK IN NON/INDIRECTLY-CONDITIONED SPACES OR R-8 FOR ATTIC SPACE AND SHALL HAVE ACRYLIC POLYMER AIRSTREAM SURFACE COATING TO INHIBIT BIOLOGICAL GROWTH. DUCT SHALL BE REINFORCED AND FABRICATED PER LATEST EDITION SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL JOINTS SHALL BE ASSEMBLED SHIP-LAPPED USING STAPLES AND TAPE WITH FISSION 0810 DUCT TAPE WITH UL181B-FX RATING PROVIDING A LEAK PROOF JUNCTURE.	2. PROVI	DE A LOW AMBIENT DE WITH SEACOAST	WIND BAFFLE/AIR ADJI SPRAY PROTECTION, ED WALL MOUNTED B	5000 \$	SALT
20.	DUCTWORK INDICATED AS "SPIRAL DUCT' SERVING SUPPLY & RETURN AIR SYSTEMS SHALL BE DOUBLE WALL INSULATED DUCT. SPIRAL DUCT SERVING EXHAUST DUCT SYSTEMS SHALL BE SINGLE WALL. THIS NOTE DOES NOT APPLY IF SPIRAL DUCTWORK HAS NOT BEEN INDICATED ON THE MECHANICAL OR ARCHITECTURAL DRAWINGS.					
21.	INSULATED DUCTWORK SHALL BE USED FOR PRE-CONDITIONED OUTSIDE AIR DUCTS AND AIR PLENUMS AND DROPS FROM ROOFTOP UNITS SHALL BE GALVANIZED SHEET METAL DUCT IN ACCORDANCE WITH MECHANICAL CODE SECTION 603 AND HAVE EXTERIOR DUCT INSULATION.	MARK	MANUFACTURE	APPLICATION		OUS STYI
	FLEXIBLE DUCTWORK, WHERE SHOWN ON THE DRAWINGS, SHALL BE EQUAL TO FLEXAIRE WITH WIRE HELIX FRAME, R-8 INSULATION FOR DUCTWORK WITHIN ATTIC SPACES OR R-6 FOR FLEXIBLE DUCTWORK WITHIN CONDITIONED OR INDIRECTLY CONDITIONED SPACES, PROVIDED WITH POLYESTER LINER, HIGH DENSITY FIBERGLASS INSULATION AND METALIZED REINFORCED VAPOR BARRIER EXTERIOR COVERS. PROVIDE SPIN-IN FITTINGS WITH SCOOP OR BELL MOUTH TYPE FITTINGS	L-1	RUSKIN EME3625MD	INTAKE		UMI
	WITH ADJUSTABLE DAMPERS. DUCT SHALL BE PROPERLY SUPPORTED WITH GALVANIZED STEEL STRAPS 2" WIDE AND SHALL BE RUN AS STRAIGHT AS POSSIBLE WITH NO KINKS OR BENDS TO RESTRICT AIRFLOW. NON-CONDITIONED OUTSIDE AIR AND TOILET EXHAUST DUCTWORK SHALL BE SHEET METAL. ALUMINUM FLEXIBLE PIPE	L-2	RUSKIN ELF637DXD	EXHAUST	AL	UMI
	ACCEPTABLE FOR SHORT EXHAUST DUCTS AND FINAL CONNECTIONS (LESS THEN 8'). DUCT TOILET EXHAUST TO ROOF, SOFFIT, OR WALL CAPS AS SHOWN ON PLANS. CAPS SHALL BE ALUMINUM CONSTRUCTION WITH AND INSECT SCREENS. HVAC SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE WHITE FINISH, ALUMINUM CONSTRUCTION UNLESS OTHERWISE	L-3	RUSKIN ELF637DXD	INTAKE	A	LUM
5	NOTED. FINAL COLOR SELECTED BY OWNER. SEE PLANS FOR THROAT CONNECTION SIZES. WALL MOUNTED THERMOSTAT(S) SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.					
	PROGRAMMABLE THERMOSTAT CONTROL FOR COOLING, HEATING. FAN, AUTO AND MANUAL MODE WHEN SPECIFIED ON					
	FLOOR PLANS. PROVIDE AIR HANDLING UNITS WITH DUCT MOUNTED SMOKE DETECTOR IN THE SUPPLY DUCT FOR ANY UNIT 2000 CFM AND GREATER. THE DUCT SMOKE DETECTOR SHALL BE PROVIDED WITH A KEYED INSPECTORS TEST STATION INSTALLED NEAR THE HVAC SYSTEM, OR, SHALL BE CONNECTED TO THE BUILDING'S FACP SYSTEM IF PRESENT.					
8.	ALL AIR HANDLERS SHALL BE PROVIDED WITH GALVANIZED DRAIN PAN INSTALLED UNDER SYSTEM REGARDLESS OF LOCATION.					
9.	ALL PACKAGED DOWN FLOW UNITS SHALL BE PROVIDED WATER LEVEL MONITORING DEVICE.					
80.	ALL SUPPLY AIR GRILLS TO BE PROVIDED WITH MANUAL VOLUME DAMPER. PROVIDE OPPOSED BLADE DAMPER OR CABLE OPERATED DAMPER FOR NON-ACCESSIBLE MANUAL VOLUME DAMPERS (NO EXCEPTIONS). RETURN AIR GRILLS CONNECTED TO RETURN DUCTS THAT SERVE INDIVIDUAL SPACES SHALL BE PROVIDED WITH AN ACCESSIBLE MANUAL VOLUME DAMPER, OPPOSED BLADE DAMPER, OR CABLE OPERATED DAMPER.					
	IF THE CEILING SPACE OR HVAC CLOSETS IN THIS PROJECT WILL BE USED AS A RETURN AIR PLENUM THEN ALL MATERIALS AND COMPONENTS LOCATED ABOVE CEILING SPACE OR CLOSET (WITHIN RETURN AIR PLENUM) SHALL BE APPROVED FOR PLENUM USE (OR) SHALL BE WRAPPED WITH A UL LISTED AND APPROVED PLENUM WRAP AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. MATERIALS AND WRAPS SHALL MEET THE FLAME SPREAD INDEX OF NOT MORE THEN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723. THIS NOTE SHALL APPLY TO ALL ITEMS LOCATED WITHIN THE RETURN AIR PLENUM SPACE WHETHER THEY ARE NEW OR EXISTING. ENTIRE PLENUM SPACE SHALL COMPLY WITH THE INDICATED BUILDING CODES & STANDARDS. THIS NOTE SHALL SUPERCEDE					
	ALL OTHER NOTES LOCATED ON THESE DRAWINGS OR OTHER DRAWINGS INCLUDED FOR THIS PERMIT.			p e	-	

				AIR CL	JRTAIN	SCHED	ULE			
BASIS OF DESIGN		LENGTH	PE	RFORMANCE		MOTOR				
JFACTURER	MODEL.NO	(FEET)	CFM	AIR VELOCITY (FPM)	NUMBER OF MOTORS	HP (PER MOTOR)	VOLTAGE	HEAT (kW)	CONTROL	NOTES
VERED AIR	MP-1-42	42"	1243	1462	1	1/5	120/1	NONE	MAGNETIC DOOR	
VERED AIR	MP-2-72	72"	1968	1348	2	1/5	120/1	NONE	MAGNETIC DOOR	

M FCU SCHEDUL	E			
	IDU TAG	MSA-1.1	MSA-1.2	MSA-1.3
	ODU TAG			
	NAME	DAIKIN	DAIKIN	DAIKIN
	NO.	FFQ18W2VJU9	FFQ18W2VJU9	FFQ18W2VJU9
	TYPE	2x2 CEILING CASSETTE	2x2 CEILING CASSETTE	2x2 CEILING CASSETTE
	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
	BTUH	18,000	18,000	18,000
/ M / L / SL)	CFM / CFM / CFM	448 / 378 / 275 / NA	448 / 378 / 275 / NA	448 / 378 / 275 / NA
	IN. H2O	-	-	-
	H x W x D	10-1/4 x 22-5/8 x 22-5/8	10-1/4 x 22-5/8 x 22-5/8	10-1/4 x 22-5/8 x 22-5/8
	LBS.	39.0	39.0	39.0
		ALL	ALL	ALL

RATING LISTED IN SCHEDULE BY THE CONDENSING UNIT.

ERMOSTAT MN: DTST-LTE-LA-A

TS WARRANTY. ONLINE REGISTRATION REQUIRED WITHIN 60 DAYS OF INSTALLATION. L VALVES FOR REPLACEMENT

	ODU TAG	MSCU-1
	IDU TAG	
	NAME	DAIKIN
	NO.	5MXS48WVJU9
	ТҮРЕ	5-PORT MULTI-SPLIT
	ТҮРЕ	HEAT PUMP
	BTUH	47,000
	BTUH	48,500
	SEER2 / EER2 / HSPF2	20.6 / 10.5 / 9.3
	SEER2 / EER2 / HSPF2	14.5 / 8.2 / 7.8
	SEER2 / EER2 / HSPF2	17.55 / 9.35 / 8.6
	#	210722663
	#	210725099
	#	210800987
	ТҮРЕ	INVERTER
	V / PH / HZ	208-230 / 1 / 60
	AMPS	30.8
	AMPS	35.0
	FT	268.0
	FT.	49.3
	FT.	98.0
	O.D. IN INCHES x QTY	3/8 x 1, 1/2 x 2, 5/8 x 2
	O.D. IN INCHES x QTY	1/4 x 5
1	Db(A)	53 / 55
	HxWxD	34-1/4 x 43-5/16 x 18-1/8
	LBS.	216
		-

CODE COMPLIANCE STATEMENT

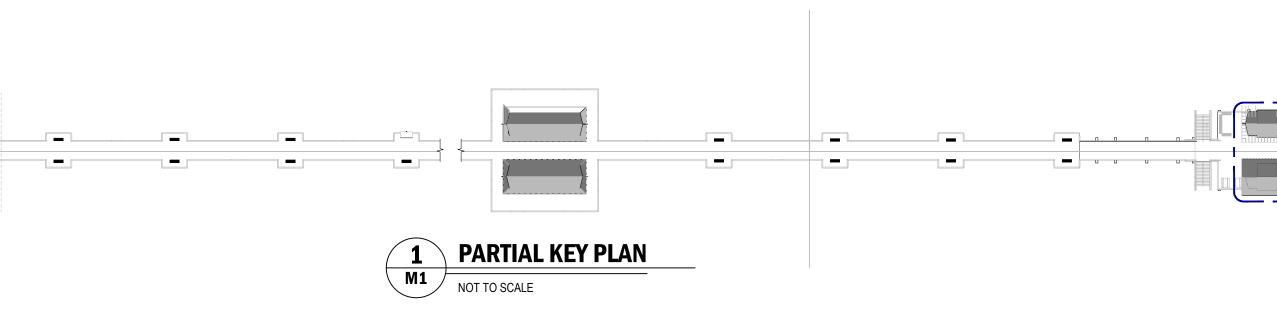
ENTIRE INSTALLATION SHALL COMPLY WITH CODES BELOW, IN ADDITION TO ALL REFERENCED STANDARDS OR ANY OTHER LOCALLY ADOPTED AMENDMENTS.

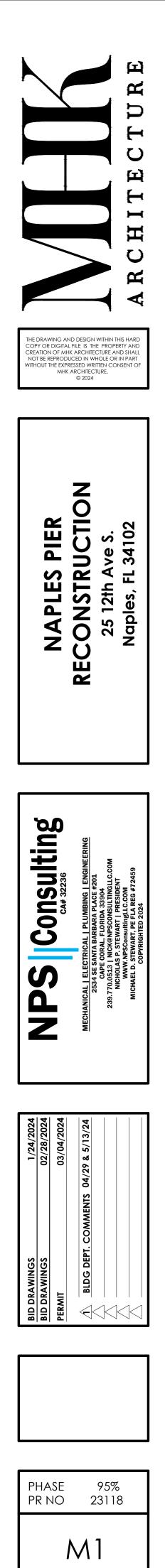
FLORIDA BUILDING CODE: FLORIDA ENERGY CODE: FLORIDA FIRE CODE: FLORIDA FUEL GAS CODE: FLORIDA MECHANICAL CODE FLORIDA PLUMBING CODE NFPA 101 LIFE SAFETY CODE NATIONAL ELECTRICAL CODE 2023 EDITION 2020 EDITION

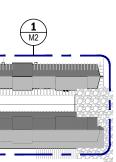
LE/AIR ADJUSTMENT GRILLE

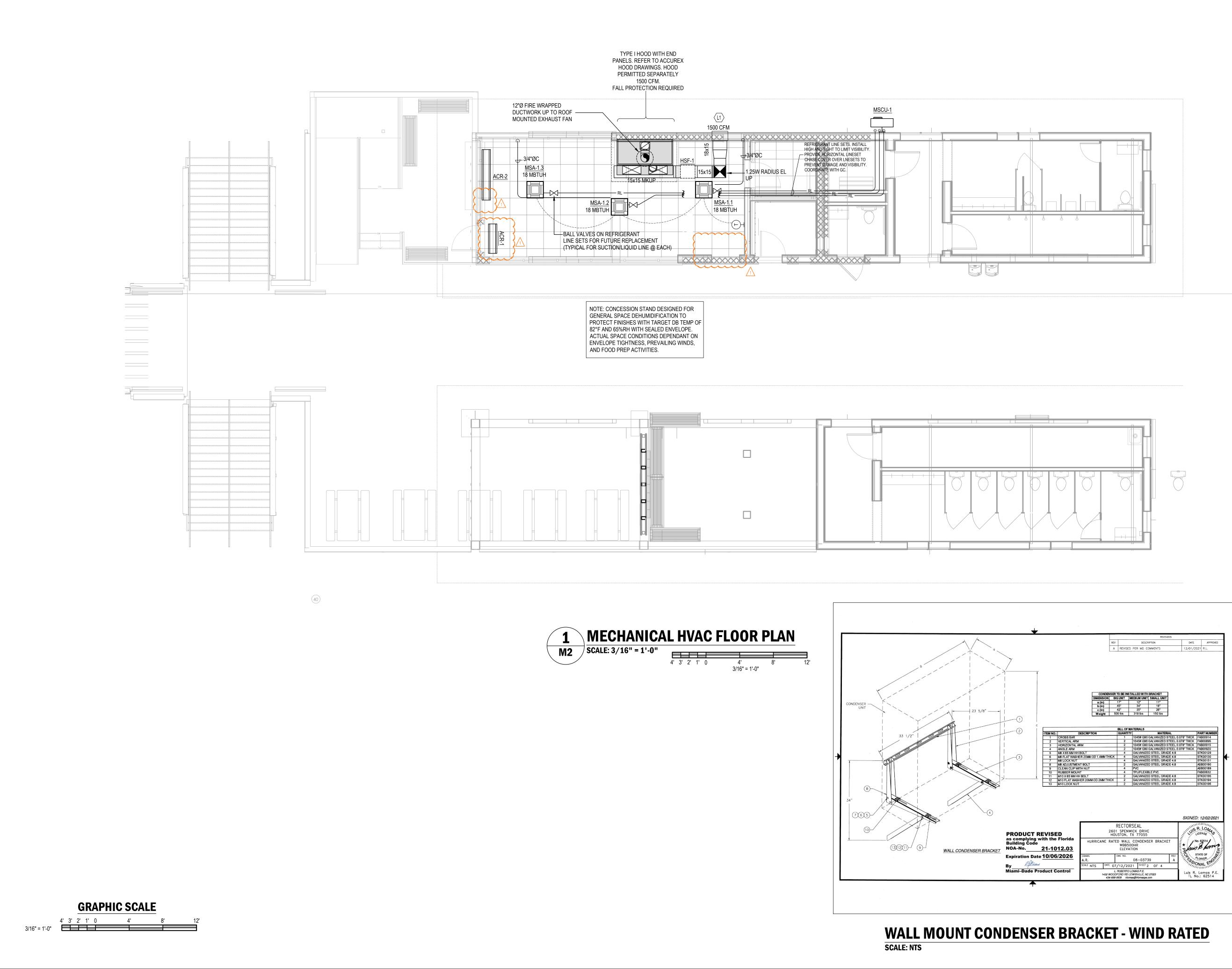
OTECTION, 5000 SALT SPRAY PER ASTM B117 MOUNTED BRACKET MN: DACA-WB-3

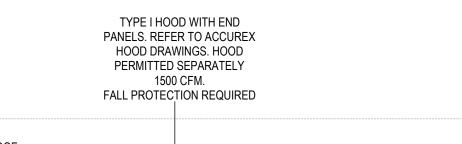
	LOUVER SCHEDULE												
	PERFORM	IANCE		THROAT									
HOUSING STYLE	MAX CFM	IN.WC	SIZE (WxL)	SIZE (WxL) FREE AREA (SQ.FT / %) VELOCITY (FPM)		DAMPER	NOTES						
ALUMINUM	1500	0.13	34" X 18"	1.66 / 40%	906 FPM	MOTORIZED							
ALUMINUM	3500	0.07	34" X 34"	5.21 / 65%	672 FPM	MOTORIZED							
ALUMINUM	3500	0.07	34" X 34"	5.21 / 65%	672 FPM	MOTORIZED							

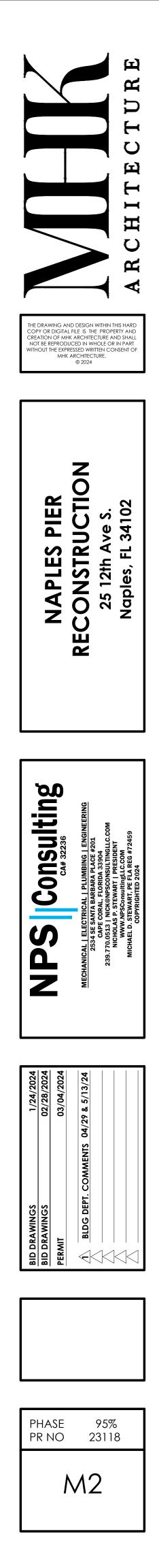










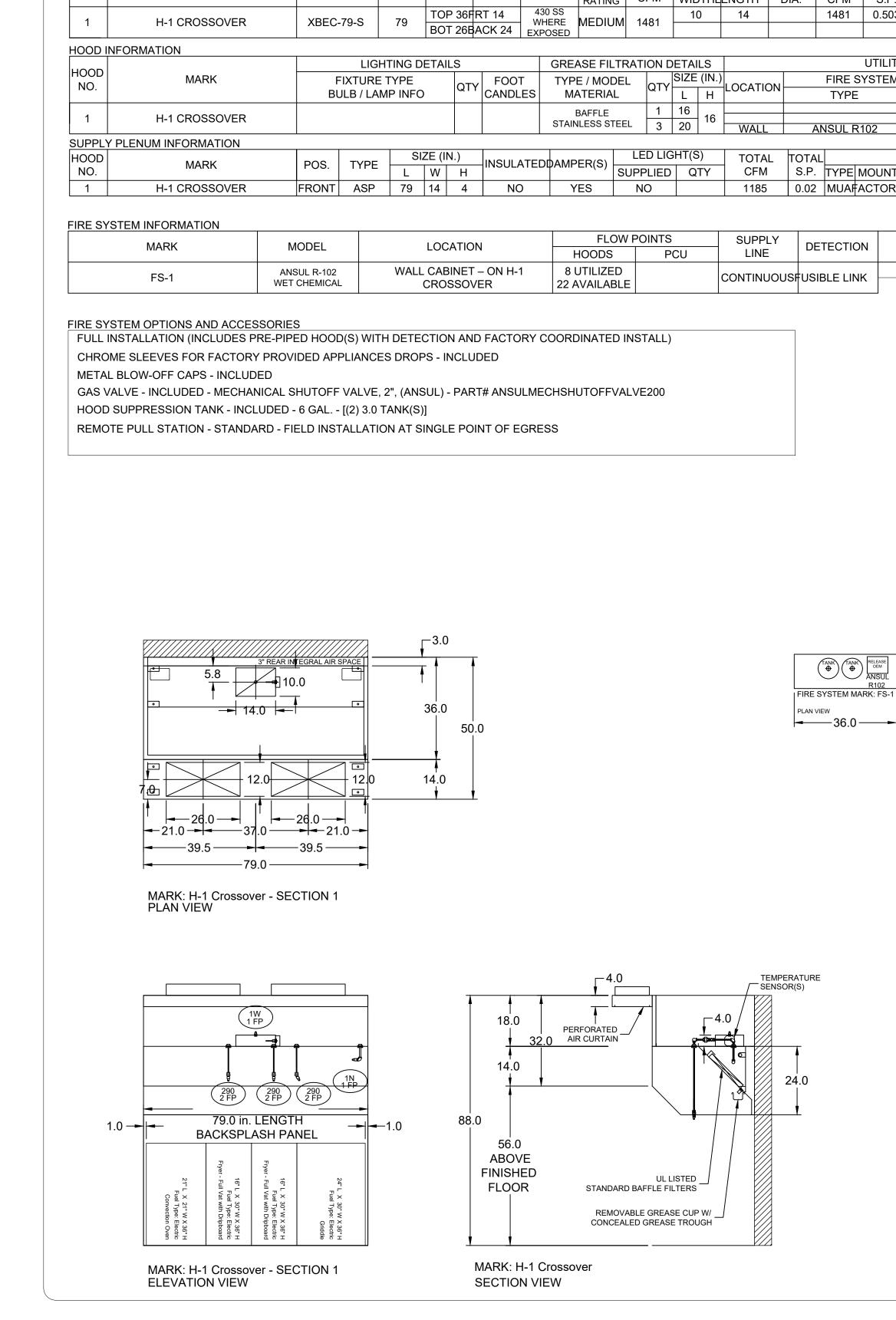


HOOD INFORMATION

MARK

HOOD

NO.



HOOD DIMENSIONS (IN.)

LENGTHWIDTHHEIGHT

MODEL

COOKING

LOAD /

RATING CFN

TOTAL

HOOD

CONSTR. DUTY

ΉA	JST				5	SUPP	LY		TOTAL	OFOTION	
СС	OLLA	R(S)			MU	A	AC		WEIGHT	SECTION	
1	DIA	.	CFM	S.P.	CFN	N	CFN	I	LBS.	LOCATION	
			1481	0.503	118	5			158	SINGLE	
									100	ONGEL	
				UTILITY	CABIN	IET(S)				
TIO			FIRE S	YSTEM				С	ONTROLS	5	
			TYPE		SIZE	M	DDEL	DEL INTERFACE			
LL		A	NSUL R	102	6						
TAL		OTAL				LLAR					
-M	:	S.P.		NOUNTIN	IGQTY	W	LD	IA.	CFM	VEL.	
85	(0.02	MUAFA	CTORY	2	122	26		593	274	
PPL` NE	Y	DE	TECTIO	N		N	IARK	(S)	PROTEC	TED BY FIF	RE SYSTEN
	אוופי		BLE LIN					H-1	CROSSC	OVER SECT	ION 1
1VUV	JUSI	1031									

EXHAUST

CFM WIDTHLENGTH DIA.

BACK INTEGRAL AIR SPACE - 3 IN WIDE 18 IN HIGH CEILING ENCLOSURES - FRONT LEFT RIGHT - FIELD INSTALLED FACTORY MOUNTED EXHAUST COLLAR(S) WALL UTILITY CABINET 24 IN HIGH 36 IN LONG 12 IN WIDE HOOD FRONT IS TAPERED (FOR LOW CEILING APPLICATIONS) BACKSPLASH 46.00 IN HIGH 79.00 IN LONG PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY

ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM - MODEL FSSC

WIRING DIAGRAMS W/DPDT MICRO SWITCH

DPDT SWITCHES PROVIDED BY MANUFACTURER MAY BE

WRED PER TYPICAL EXAMPLES SHOWN. VERIFY WITH LOCAL CODES AND EQUIPMENT SUPPLIED AS THE CONNECTION NEEDED FOR YOUR INSTALLATION.

INPUT

____ N

CONNECTION TO BUILDINGS ALARM

CONNECTION TO COOKING

EQUIPMENT SHUT DOWN

120 VAC INPUT

CONNECTION TO FAN SHUT DOWN

---- DENOTES FIELD INSTALLATION. ---- DENOTES FACTORY INSTALLATION.

3. DO NOT USE BLACK WIRE ON SNAP-ACTION SWITCH IN

NORMAL INSTALLATION. BLACK WIRE TO BE USED ONLY FOR EXTRANEOUS ALARM, LIGHT CIRCUITS, ETC.

DO NOT SHUT DOWN EXHAUST FANS WITH THIS METHOD OF WIRING, IF PROHIBITED BY LOCAL CODES.

NOTES:

VOLTAGE FREE CONTACTS FOR BUILDING ALARM(S)

POWER TO COOKING EQUIPMENT

SEE OPTION A OR B AT RIGHT, MECHANICAL G

SHUNT TRIP BREAKER

POWER TO FAN(S)

MANUAL SWITCH

STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625

CONTROL PANEL

5. KNOCKOUT FOR WIRING MICROSWITCH

NOT TO SCALE

NOTES:

WET CHEMICAL FIRE PROTECTION SYSTEM TO BE ANSUL R-102, DESIGNED IN

-VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION

-ALL FIRE SYSTEM PIPING IS STANDARDLY TO THE RIGHT END OF THE HOOD

-GAS SHUT-OF VALVE, IF REQUIRED, TO BE SUPPLIED BY MANUFACTURER (UP TO 2" DIAMETER AS STANDARD), AND INSTALLED BY A LICENSED PLUMBER.

-MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS

AND ELECTRICAL POWER SHUT DOWN. FIELD WIRING AND CONNECTIONS TO BE

-FULL DUMP TEST OTHER THAN WHT IS SPECIFIED PER THE INSTALLATION MANUAL, OR TO SATISFY A STATE OR LOCAL CODE. PERMIT AND TESTING FEES ARE NOT INCLUDED UNLESS NOTED UNDER THE EQUIPMENT SCHEDULE FOR THE FIRE SYSTEM. -MORE THEN TWO TRIPS TO THE JOBSITE OR SPECIAL TRANSPORTATION, OR

OVERNIGHT LODGING REQUIREMENTS IN REMOTE AREAS. NORMAL TRAVEL

- SPECIAL CLASSES OR ADDITIONAL LABOR FOR ACCESS TO SECURITY

-SPECIAL DRAWINGS REQUIRED TO SATISFY STATE OR LOCAL CODE. PLAN EXAMINATION FEES, PE OR FS APPROVAL STAMP.

-UNION LABOR, GOVERNMENT LABOR, OR PREVAILING WAGES REQUIRED FOR

ANY AND ALL ELECTRICAL COMPONENTS/CONNECTIONS REQUIRED TO SHUT DOWN FANS, SHUT OFF DEVICE FOR ELECTRIC COOKING EQUIPMENT (SHUNT

-ANY DISMANTLING OR REASSEMBLY REQUIRED TO GAIN ACCESS TO THE FIRE

-ROUGH-IN HIDDEN CONDUIT FOR REMOTE PULL STATION OR GAS VALVE

-INSTALLATION OF MORE THAN (1) REMOTE PULL STATIONS OR DISTANCES

EQUIPMENT CHANGES OR DEVIATION FROM PLANS. OR ANY CHARGES FOR

MISSING OR ADDITIONAL PARTS OTHER THEN THOSE INDICATED ON THE FIRE

-PARTS OR LABOR REQUIRED TO CORRECT PIPING DUE TO COOKING

-ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.

7.5

16.5

1. STAINLESS STEEL ENCLOSURE 2. AGENT STORAGE TANK 3. EXPELLENT GAS CARTRIDGE

ANSUL AUTOMAN RELEASE

COMPLIANCE WITH UL 300 REQUIREMENTS.

PERFORMED BY A LICENSED ELECTRICIAN.

DISTANCE IS FIRST 50 MI. (80.5 KM) FROM OFFICE.

TRIP BREAKER), OR ACTIVATE AN ALARM SYSTEM, ETC.

SUPPRESSION PIPING LOCATED ON THE TOP OF THE HOOD.

-INSTALLATION OF GAS SHUT-OFF VALVE.

SENSITIVE AREAS.

FINAL FIELD HOOK-UP.

(FLUSH MOUNTED PULL STATION).

GREATER THAN 20 FT (6.1M.)

SUPPRESSION DETAIL.

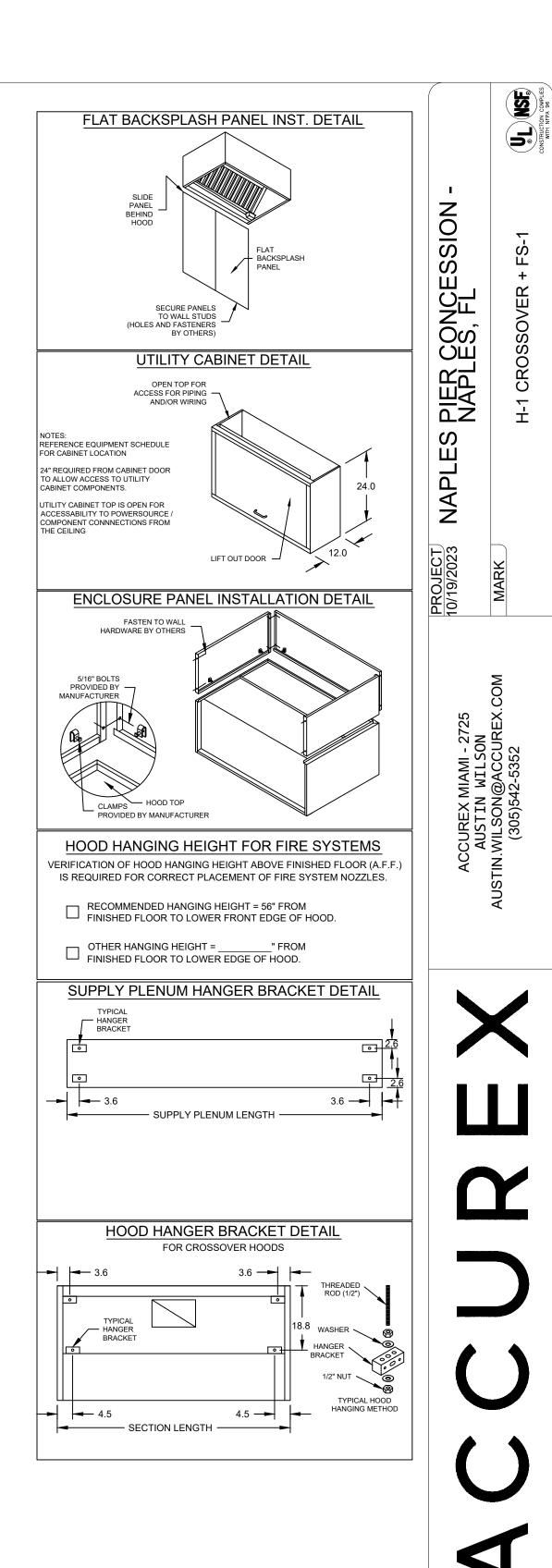
REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.

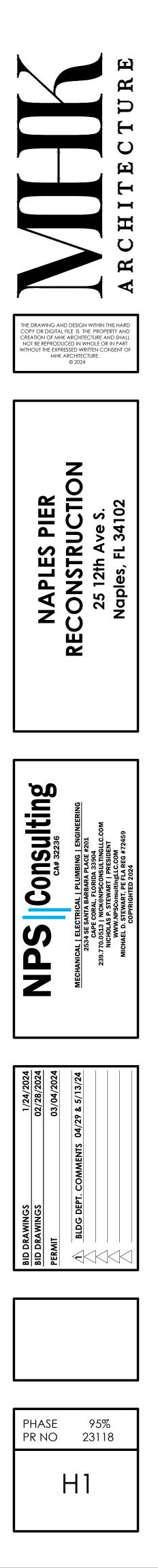
UNLESS A WALL IS LOCATED ON THE RIGHT END.

THE BASIC FIRE SYSTEM WILL INCLUDE THE FOLLOWING

THE BASIC FIRE SYSTEM DOES NOT INCLUDE THE FOLLOWING:

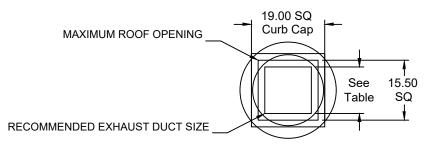
HOOD OPTIONS

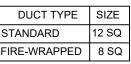


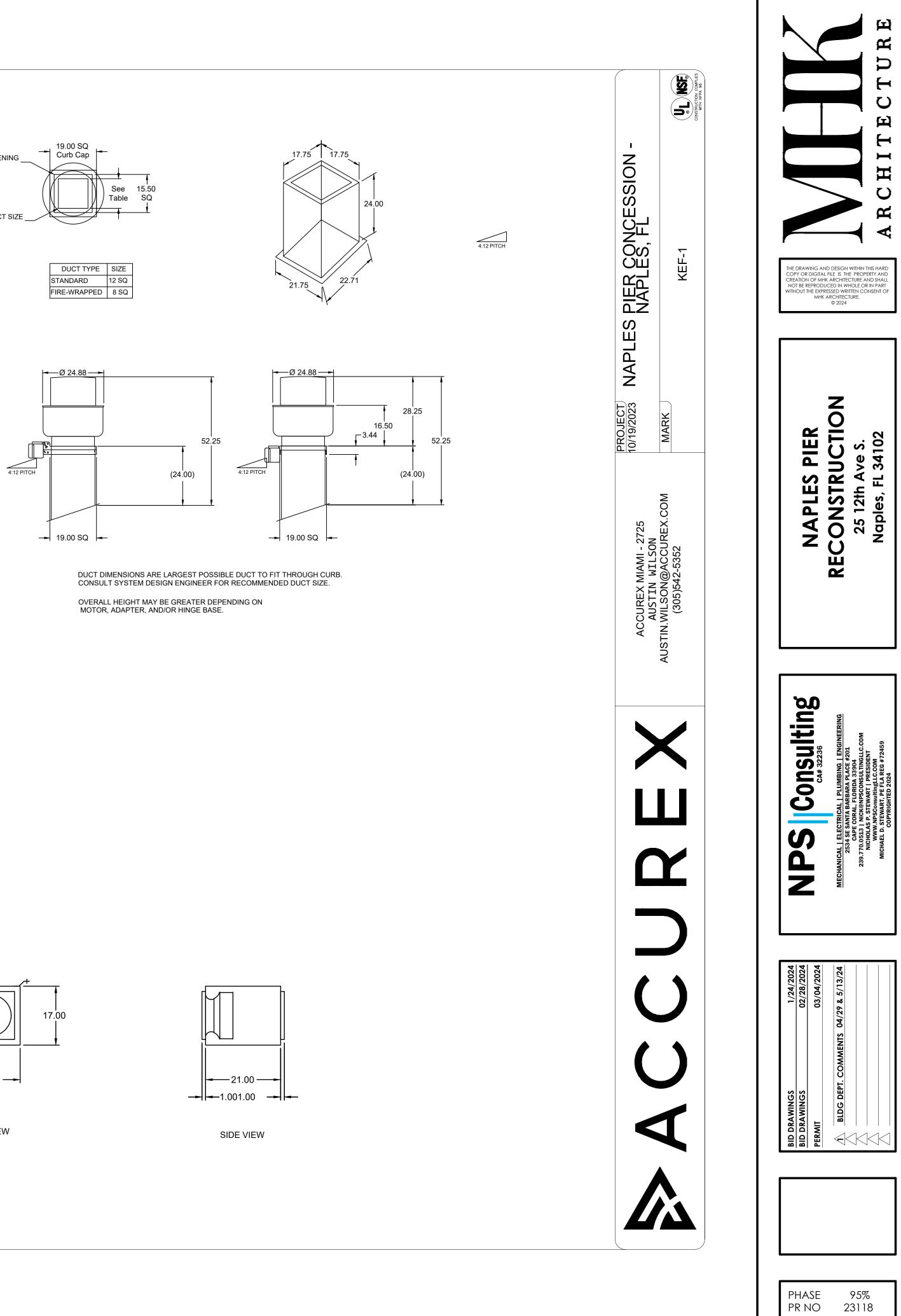


QTY MARK MODEL OCCMM Intractional Contractional Stress 1 KEF-1 XCUE-120-VG 1.481 1.003 1.671 0.43 66 NEC FLA - Based on table 430.250or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory" KEF-1 : SELECTED OPTIONS AND ACCESSORIES One piece fully welded windband Tapered bushing wheel hub Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95) Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480) Standard Curb Cap Size - 19 Square UL/CUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762) Switch, NEMA-3R, Toggle, High Wind Rated (+/-150 PSF Rating) Florida Product Approval #FL13225.1 & Miami-Dade NOA #22-0606.03 High Zeroty Installed High Torne Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached) Grease Trap (PN 475538) Conduit Chase Qty 1		MARK INFORMATION			N INFORMATION	SP	FAN	OPERATING	WEIGH
IEC FLA - Based on table <u>430.250</u> or <u>430.248</u> of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory" KEF-1 : SELECTED OPTIONS AND ACCESSORIES One piece fully welded windband Tapered bushing wheel hub Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95) Win. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480) Standard Curb Cap Size - 19 Square JL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762) Switch, NEMA-3R, Toggle, High Wind Rated (+/-150 PSF Rating) Florida Product Approval #FL13225.1 & Miami-Dade NOA #22-0606.03 Hinge, Factory Installed High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached) Grease Trap (PN 475538)			MODEL	(CFM)	(IN WG)		RPM	POWER (HP)	(LB.)
KEF-1 : SELECTED OPTIONS AND ACCESSORIES Dhe piece fully welded windband Fapered bushing wheel hub Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95) Alin. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480) Standard Curb Cap Size - 19 Square JL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762) Switch, NEMA-3R, Toggle, tigh Wind Rated (+/-150 PSF Rating) Florida Product Approval #FL13225.1 & Miami-Dade NOA #22-0606.03 tinge, Factory Installed tigh Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached) Grease Trap (PN 475538)									
	Tapere Breathe Ain. wir 0.08 Standa JL/cUL Switch, High W Florida Hinge, I High Te Grease	ece fully welded windband d bushing wheel hub er tube outlet area min. 4.4 sq. in. (s ndband material thickness: 0.051" a 30" aluminum (sizes 300-480) rd Curb Cap Size - 19 Square 705 Listed - Supplement SC - "Pow NEMA-3R, Toggle, ind Rated (+/-150 PSF Rating) Product Approval #FL13225.1 & Mi Factory Installed emp Curb Seal Rated for Continuou Trap (PN 475538)	izes 99-480), 2.0 sq. in. (sizes 60-95) Iuminum (060-240), 0.064" aluminum (240HP, ver Ventilators for Restaurant Exh. Appliances' ami-Dade NOA #22-0606.03		UL 762)				
	Direc	t Drive Centrifugal Inline Fan MARK INFORMATION		FÆ					
Direct Drive Centrifugal Inline Fan MARK INFORMATION FAN INFORMATION	QTY	MARK	MODEL	VOLUME	TOTAL EXTERNAL	_ SP	FAN RPM		
MARK INFORMATION FAN INFORMATION OTX MARK	1	KSF-1 Inline	XID-100-VG	1,185	0.32				-
MARK INFORMATION FAN INFORMATION DTY MARK MODEL VOLUME (CFM) TOTAL EXTERNAL SP (IN WG) FAN POWER (HP)	EC F	LA - Based on table <u>430.250</u> or 4 <u>3</u>	0.248of National Electrical Code 2020. Actua	Il motor FL	A may vary for sizing	g ther	mal ov	erload, consult	factory"
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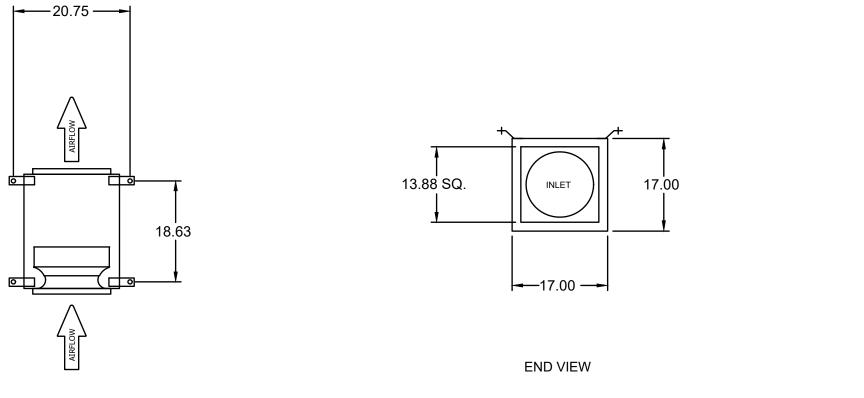
		Μ	OTOR INFORM	ATION		
GHTS 5.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGSI	NEC FLA*
6	0.5	230/60/1	OP	1725	1	4.9







		MOTOR INFORMATION									
IGHTS B.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGSI	NEC FLA*					
58	0.25	230/60/1	TN	1725	1	2.9					

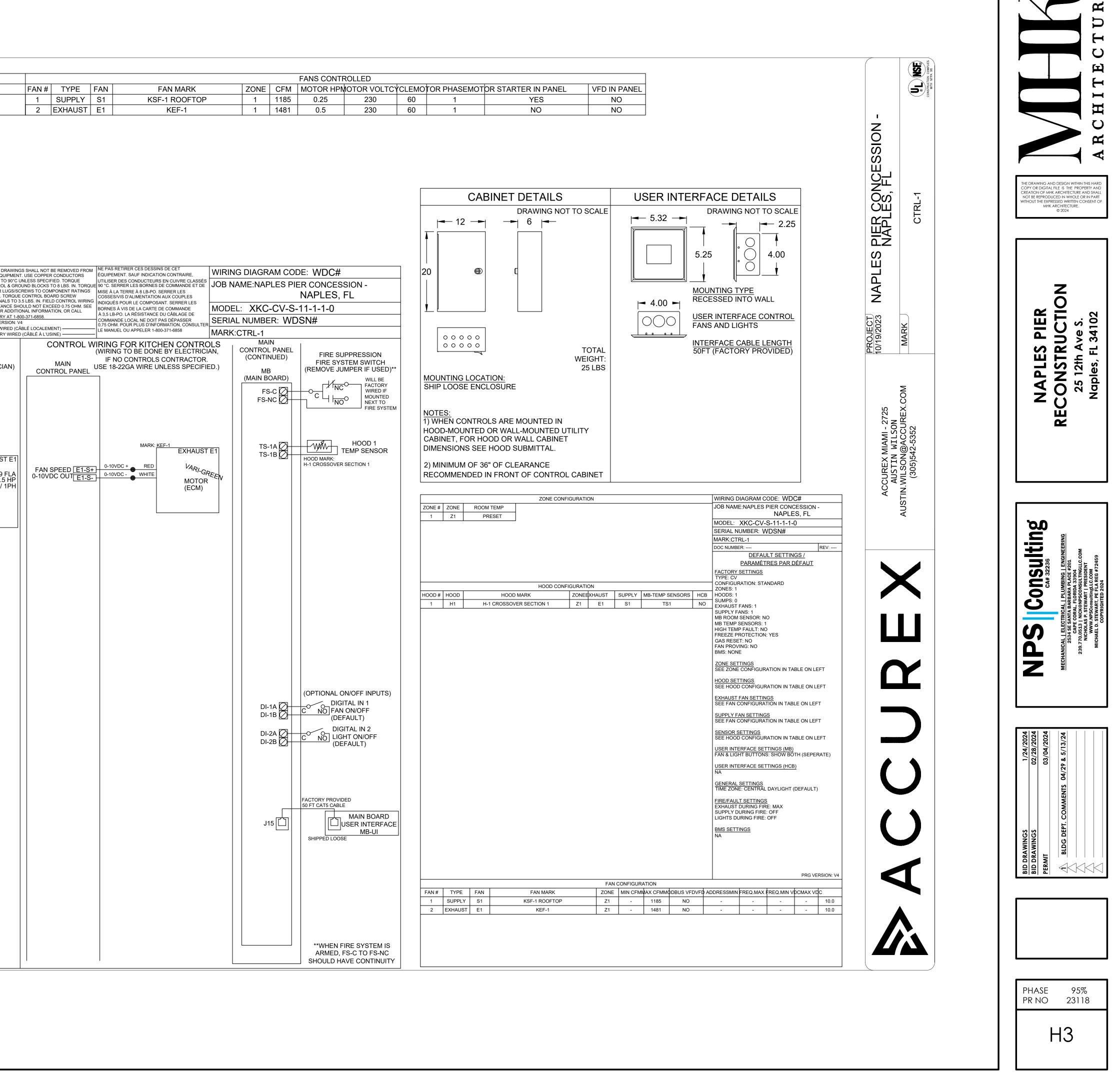




AIRFLOW

AIRFLOW

ONTROL INFORMATION	ELECTRICAL CONTROL PACKAGE		USER INTERFACE		
MARK CTRL-1	MODEL XKC-CV-S-11-1-1-0	LOCATION SHIP LOOSE ENCLOSURE	TYPE FULL COLOR	LOCATION SHIP LOOSE	_
CONTROL FEATURES HOOD LIGHT CONTROL TEMP SENSORS (FACTORY INSTA DRY FIRE CONTACTS - QTY. 1 LIGHTS OFF DURING FIRE EXHAUST MAX DURING FIRE SUPPLY OFF DURING FIRE			TOUCHSCREEN		_
►ACC		DOC NUMBER: -	TION NDED IN ACCORDANCE L'A MUST BE OFF WHILE CONFO	REV: ATTENTION APPAREIL DOIT ÊTRE MIS À LA TERRE DRMÉMENT AU CODE C.E. L'ALIMENTATION T ÊTRE COUPÉE DURANT L'ENTRETIEN.	THESE I THIS EQ RATED T CONTRO POWER LISTED. N TERMIN. RESISTA IOM FOR
		<i>1</i> . \	LECTRICAL RATINGS: 1	IANCE OUTLET CENTER 10-240V,1PHASE, 50-60HZ,15A 616, ML FILE #E313951	FACTOR
	R WIRING FOR KITCHEN C	ONTROLS		R WIRING FROM BREAK	KER
BUILDING BREAKER PANEL 110V-120V / 1PH POWER FOR CONTROLS / LIGHTS (NON SHUNTED 15A BREAKER)		HOOD LIGHTS HITE REEN	BUILDING (\ BREAKER PANEL	WIRING TO BE DONE BY ELE	ECTRICI
СТ		OMMON FIRE SYSTEM ORMALLY OPEN DRY ORMALLY CLOSED CONTACT 1*	230V / 1PH POWER FOR E1 MCA: 6.13 MOP: 15	LINE 2	230V /
230V / 1PH POWER FOR S1 MCA: 3.63 MOP: 15	S1 OL-S1 -0.000 -0.000 -0.000 T2 -0.000 T3 -0.000	LOAD 2 GROUND MARK: KSF-1 ROOFTOP SUPPLY S1 M 2.9 FLA 0.25 HP 230V / 1PH			
	EM DRY CONTACT WIRING EXAM	API ES.			
FIRE SYST SHUNT TRIP (BY OTHERS) WIRING EXAMPLE:	APPLIAN (B WIRI	ICE CONTACTORS Y OTHERS) NG EXAMPLE:			



ELECTRICAL SPECIFICATIONS (NEC 2020)

GENERAL

1. ENTIRE INSTALLATION TO COMPLY WITH THE (NFPA 70), NFPA STANDARDS AS APPLICABLE IN ADDITION TO SPECIFICATIONS AS OUTLINED BELOW. ALL ELECTRICAL WORK FOR THE ENTIRE PROJECT SHALL BE PERFORMED IN A NEAT AND CRAFTSMANLIKE MANNER BY PERSONS SKILLED IN THE TRADE. AND SHALL BE DONE UNDER THE SUPERVISION OF A MASTER ELECTRICIAN LICENSED TO DO WORK IN THE AREA WHERE THE PROJECT IS TO BE CONSTRUCTED. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST COPY OF THE NATIONAL ELECTRIC CODE PRESENTLY ENFORCED.

SCOPE:

- THE PROJECT INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE A COMPLETE ELECTRICAL 1. INSTALLATION INCLUDING, BUT NOT LIMITED TO, POWER SERVICES (TEMPORARY, NORMAL, AND STAND-BY OR EMERGENCY SWITCHBOARDS AUTOMATIC TRANSFER SWITCHES SERVICE ENTRANCE(S) DISCONNECTS DISTRIBUTION PANELS CONDUI WIRING, JUNCTION AND OUTLET BOXES, WIRING DEVICES AND COVER PLATES, LIGHTING FIXTURES, CONNECTION CHORDS, SPECIAL CONNECTIONS AND OUTLETS, ALL AS ILLUSTRATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES, UTILITY COMPANIES, AND GOVERNING AUTHORITIES.
- THE ELECTRICAL CONTRACTOR TO FURNISH A MINIMUM 100 AMP SINGLE PHASE TEMPORARY SERVICE. POWER COMPANY FEES AND MONTHLY ELECTRIC BILL TO BE PAID BY THIS CONTRACTOR.

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ANSI, NFPA70, STATE OF FLORIDA LAWS, AND ALL LOCAL RULES AND REGULATIONS, INCLUDING THE NATIONAL ELECTRIC CODE AND ENERGY CODE IN EFFECT.

PERMITS:

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAYING ALL FEES ASSOCIATED THEREWITH. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INSPECTIONS, INCLUDING ALL FEES ASSOCIATED WITH **RE-INSPECTIONS.**

DRAWINGS:

THE DRAWINGS ARE DIAGRAMMATIC, AND DO NOT SHOW ALL CHANGES IN HEIGHT, STRUCTURAL MEMBERS, DUCTWORK, PIPING BRACKETS AND ANY OTHER NUMBER OF ITEMS WHICH MIGHT CAUSE A CONFLICT. THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER TRADES AS TO THE LOCATION OF HIS DEVICES AND NECESSARY AREAS FOR PANELS AND CONDUIT/WIRING RUNS. VERIFY AND COORDINATE ALL ELECTRICAL WORK WITH ALL TRADES TO PROVIDE A TIMELY INSTALLATION. ADDITIONAL CHARGES DUE TO LACK OF COORDINATION WILL NOT BE APPROVED.

MATERIAL:

1. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE LISTED BY AND BEAR THE U.L. LABEL WHERE SUBJECT TO APPROVAL. MATERIALS SHALL BE OF THE SAME MANUFACTURER OR BRAND FOR EACH TYPE OF MATERIAL, UNLESS DESIGNATED OTHERWISE

FIXTURES:

1. ALL FIXTURES SHALL BE AS LISTED IN THE LIGHTING FIXTURE SCHEDULES/ RECOMMENDATIONS.

PANELS:

- 1. ALL PANELS TO BE FURNISHED AS PER PANEL SCHEDULE. SQUARE D, GE, AND SIEMENS ARE ACCEPTABLE MANUFACTURERS.
- ALL SWITCHBOARD AND OVERCURRENT DEVICES SHALL BE SERIES-RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT; VERIFY WITH LOCAL UTILITY COMPANY. SEE PANEL SCHEDULE.

DEVICES:

- 1. EXTERIOR DISCONNECT SWITCHES SHALL BE NEMA 3R ENCLOSURES AND ELECTRICALLY PROTECTED AS PER MANUFACTURER'S SPECIFICATIONS. (SEE MECHANICAL).
- 2. INTERIOR DISCONNECT SWITCHES SHALL BE NEMA 1 ENCLOSURES AND ELECTRICALLY PROTECTED AS PER MANUFACTURER'S SPECIFICATIONS. (SEE MECHANICAL).
- 3. SWITCHES SHALL BE 20 AMP, SPECIFICATION GRADE TOGGLE SWITCHES, SIDE WIRED WITH GROUNDING TERMINAL; COLOR SHALL BE WHITE (UNLESS NOTED OTHERWISE) WITH MATCHING COVERPLATE; MOUNTING HEIGHT SHALL BE +48" AFF TO BOTTOM.
- RECEPTACLES SHALL BE 15 AMP (MINIMUM), SPECIFICATION GRADE, SIDE WIRED WITH GROUNDING TERMINAL; COLOR SHALL BE WHITE (UNLESS NOTED OTHERWISE) WITH MATCHING COVERPLATE; MOUNTING HEIGHT NOTED IN SYMBOL LEGEND OR ON DRAWING
- 5. ALL RECEPTACLES INSTALLED IN KITCHENS, OR WITHIN 6 FEET (6') OF A WATER SUPPLY (i.e.: SINK), SHALL BE GROUND FAULT CIRCUIT INTERRUPTER (G.F.C.I.) DEVICES WITH DOWNSTREAM DEVICES IDENTIFIED.
- 6. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN BATHROOMS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

BRANCH CIRCUIT WIRING:

- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED ON PLANS
- 2. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG THWN COPPER.

TYPICAL NOTES

1. EQUIPMENT FURNISHED AND PHYSICALLY INSTALLED BY "OTHERS". ALL ELECTRICAL CONNECTIONS EXTERNAL TO THE EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR. WIRE, CONDUIT, LUGS, RECEPTACLES, PIGTAILS, DISCONNECTS, ETC. AS MAY BE REQUIRED SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. NOTE: INCLUDE WORSE CONDITION IN PRICING. VERIFY ROUGH-IN LOCATIONS, TYPE OF CONNECTION AND AMPACITY

EQUIRED FROM APPLICABLE EQUIPMENT DRAWINGS PRIOR TO INSTALLING ANY CONDUIT, CONDUCTORS OR BOXES.

- 2. WALL TELEPHONE/DATA OUTLET. INSTALL 2-GANG BOX WITH MODULAR TELEPHONE DEVICE IN COVER PLATE. INSTALL (1) 3/4" EMT CONDUIT TO ACCESSIBLE CEILING SPACE OR HOMERUN TO TELEPHONE/COMPUTER TERMINAL EQUIPMENT. HEIGHT, UNLESS NOTED, IS 18" ABOVE FINISH FLOOR.
- 3. PROVIDE LIGHT FIXTURE AND RECEPTACLE AT LOCATIONS INDICATED FOR HVAC MAINTENANCE LIGHTING. USE COMBINATION SWITCH AND RECEPTACLE FOR LIGHT CONTROL. FIELD DETERMINES EXACT LOCATION AND HEIGHT.
- 4. SWITCHED JUNCTION BOX IN CEILING FOR CEILING FAN OR LIGHT. NOTE: BOX MUST BE IDENTIFIED FOR FAN SUPPORT USE). ANCHOR TO STRUCTURE TO SUPPORT 75 LBS. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FAN AND/OR LIGHT, AND ALL WIRING. INCLUDING SWITCH AND POWER LEGS. VERIFY AND COORDINATE FAN TYPE WITH OWNER.
- 5. IF THE CEILING SPACE OR HVAC CLOSETS IN THIS PROJECT WILL BE USED AS A RETURN AIR PLENUM THEN ALL MATERIALS AND COMPONENTS LOCATED ABOVE CEILING SPACE OR CLOSET (WITHIN RETURN AIR PLENUM) SHALL BE APPROVED FOR PLENUM USE (OR) SHALL BE WRAPPED WITH A UL LISTED AND APPROVED PLENUM WRAP AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. MATERIALS AND WRAPS SHALL MEET THE FLAME SPREAD INDEX OF NOT MORE THEN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723. THIS NOTE SHALL APPLY TO ALL ITEMS LOCATED WITHIN THE RETURN AIR PLENUM SPACE WHETHER THEY ARE NEW OR EXISTING. ENTIRE PLENUM SPACE SHALL COMPLY WITH LOCAL BUILDING CODES. THIS NOTE SHALL SUPERCEDE ALL OTHER NOTES LOCATED ON THESE DRAWINGS OR OTHER DRAWINGS INCLUDED FOR THIS PERMIT.

GENERAL NOTES: ELECTRICAL

- 1. ALL ELECTRICAL SWITCHGEAR, PANELS, AND DEVICES SHALL BE INSTALLED 1'-0" ABOVE FLOOD ELEVATION. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOD ELEVATION AND COORDINATE WITH GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL ELECTRICAL SERVICE ROUGH-IN AND INSTALLATION DETAILS, FEES, WITH THE LOCAL POWER COMPANY/UTILITY FIELD ENGINEER PRIOR TO AND INCLUDE IN BID! ELECTRICAL METERING EQUIPMENT AND METERING DEVICES ARE REQUIRED TO BE APPROVED BY POWER COMPANY
- 3. THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL STATE/LOCAL BUILDING CODES/ORDINANCES/REGULATIONS PRESENTLY IN EFFECT. IN ADDITION, COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE (N.E.C.).
- 4. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE IN ORDER TO FAMILIARIZE THEM SELF WITH EXISTING CONDITIONS, FAILURE TO DO SO WILL NOT WARRANT ANY ADDITIONAL CHARGES TO THE OWNER.
- 5. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID, ANY CUTTING OR PATCHING OF CONCRETE/ASPHALT PAVEMENTS, ETC. TO RUN ELECTRICAL.
- 6. ALL EQUIPMENT, FIXTURES, ETC. SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY (C.O.), AND SHALL REPAIR ANY SUCH DEFECTS WITHOUT COST TO THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY. THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S GUARANTEE AND WARRANTIES.
- HVAC AIR HANDLER AND CONDENSING UNIT CIRCUIT BREAKERS MUST BE U.L. LISTED AS "HACR" RATED IN ORDER TO USE NON-AUTO DISCONNECTS AT HVAC EQUIPMENT. IF NOT LISTED, THEN A FUSED DISCONNECT IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S NAMEPLATE REQUIREMENTS MUST BE INSTALLED AT THE EQUIPMENT.
- THE ELECTRICAL, GENERAL, HVAC, AND PLUMBING CONTRACTOR(S) SHALL STRICTLY ADHERE TO THE FOLLOWING ITEMS WHEN DEALING WITH ELECTRICAL EQUIPMENT CLEARANCES:
- A. NO PIPING OR DUCTWORK OF ANY KIND SHALL BE INSTALLED ABOVE ANY SWITCHBOARD OR PANELBOARD. THIS AREA TO REMAIN CLEAN FROM THE EQUIPMENT TO 25' ABOVE OR TO THE BOTTOM OF THE STRUCTURAL SLAB.
- B. A CLEARANCE OF 36" MINIMUM SHALL BE MAINTAINED IN FRONT OF ELECTRICAL EQUIPMENT FOR THE ENTIRE WIDTH OF THE EQUIPMENT, PLUS A MINIMUM OF 30" TOTAL LEFT/RIGHT CLEARANCE.

GENERAL NOTES: ELECTRICAL (CONTINUED)

- 9. ALL "WEATHERPROOF" ("WP") DEVICES ARE TO BE INSTALLED WITH A WEATHER-SHIELDING COVER.
- CEILING GRIDS, DOOR SWINGS, ETC.
- 12. THE INTENT OF THESE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL INSTALLATION. 13. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL DETAILS OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED
- ELECTRICAL SYSTEM INSTALLATION.
- 15.
- SATISFACTORY OPERATION BY THE OWNER.
- 17. ALL SERVICE AND FEEDER CONDUITS SHALL HAVE EXPANSION FITTINGS WHEN PENETRATING SLABS, ETC. TO ALLOW FOR STRUCTURAL SETTLEMENT
- 18. PROVIDE "PVC" CONDUITS STUBBED OUT, BELOW GRADE FOR ADDITIONAL SERVICES, IN ORDER TO PROVIDE CONCEALED TELEPHONE AND/OR DATA SERVICE ENTRANCE.
- DIAGRAM FOR ADDITIONAL DETAILS.
- PANEL SCHEDULES AND RISER DIAGRAM.
- SCHEDULE FOR FIXTURE RECOMMENDATIONS, LAMPS, ETC.
- FIXTURE CONTROL WIRING.
- SHALL BE REQUIRED AT THE TIME OF CERTIFICATION DELIVERY. INSTALLATION:

GENERAL:

- ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, AS WELL AS EQUIPMENT SIZE, TO AVOID CONFLICT WITH OTHER TRADES.
- ADDITIONAL COSTS TO THE OWNER.

WIRING METHODS:

- ALL PVC COMPONENTS (PIPING, FITTINGS, CEMENT, ETC.) SHALL BE FROM THE SAME MANUFACTURER.
- EXTERIOR ABOVE GRADE: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA THE SAME MANUFACTURER.

NOTE: MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE SIX FEET (6').

ETC.) SHALL BE FROM THE SAME MANUFACTURER.

SHALL BE THREE FEET (3

INTERIOR: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED METALLIC (EMT) CONDUIT. ALL COMPONENTS (PIPING, FITTINGS, ETC.) SHALL BE FROM THE SAME MANUFACTURER. CONDUITS SHALL BE CONCEALED IN OR BEHIND CEILINGS, WALLS, OR FLOORS, EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.

NOTE: EMT SHALL NOT BE INSTALLED IN LOCATIONS (1) SUBJECT TO SEVERE DAMAGE, (2) IN CONTACT WITH EARTH, (3) IN CONCRETE SLABS ON GRADE, (4) OTHER LOCATIONS AS LISTED IN N.E.C., ARTICLE 358.12.

- NON-METALLIC SHEATHED CABLE (NM, NMC, NMS) MAY BE USED WITHIN DWELLING UNITS, IN COMPLIANCE WITH N.E.C., ARTICLE 334.
- ELECTRICAL SYSTEM EXPANSION: ANY PANELBOARD MOUNTED SO THAT ITS FRONT FACE IS FLUSH WITH THE FINISHED WALL SHALL HAVE ONE (1) 3/4" EMT CONDUIT INSTALLED FROM PANELBOARD TO ACCESSIBLE CEILING SPACE FOR EVERY FOUR (4) OR MAJOR FRACTION THEREOF, POLES INDICATED AS "SPACE" OR "SPARE" IN THE PANELBOARD SCHEDULE PER THESE DOCUMENTS.
- ELECTRICAL BOXES: ALL OUTLET, DEVICE, AND JUNCTION BOXES SHALL BE STANDARD 4" SQUARE GALVANIZED STEEL OR PPROVED PLASTIC, 1-1/2" DEEP, WITH DEVICE RINGS OF THE SAME MATERIAL, UNLESS OTHERWISE NOTED. GALVANIZED BOXES SHALL BE MANUFACTURED BY APPLETON, NATIONAL, STEEL CITY, RACO OR APPROVED EQUAL. PLASTIC BOXES SHALL BE ALLIED. NELCO, CARLON, OR EQUAL. ALL ELECTRICAL BOXES MUST BE ACCESSIBLE AFTER CERTIFICATE OF OCCUPANCY.
- 6. THRU-FEEDS: MAINTAIN THRU-FEEDS ON ALL ELECTRICAL DEVICES AT C.O. EQUIPMENT

WIRE TO, AND MAKE CONNECTIONS TO, ALL PIECES OF EQUIPMENT FURNISHED BY OTHERS FOR COMPLETE AND SATISFACTORY

- OPERATION BY OTHERS.
- 2. THIS CONTRACT TO INCLUDE CONNECTION OF LINE VOLTAGE ONLY. CONTROL WIRING TO BE BY THE HVAC CONTRACTOR.

GROUNDING:

- 1. THE ENTIRE ELECTRICAL GROUNDING SYSTEM SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF SECTION 250.66 AND 250.122 OF THE NATIONAL ELECTRIC CODE, INCLUDING BUT NOT LIMITED TO, THE ELECTRICAL SERVICE, ITS EQUIPMENT AND ENCLOSURE. CONDUITS AND OTHER CONDUCTIVE ENCLOSURES. NEUTRAL OR IDENTIFIED CONDUCTOR OF INTERIOR WIRING SYSTEM, MAIN PANELBOARD, POWER AND LIGHTING PANELBOARDS, NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT SUCH AS MOTORS, STARTER AND CONTROLLER CABINETS, INSTRUMENT CASES AND LIGHTING FIXTURES.
- PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ARTICLE 250. THE MINIMUM INSTALLATION TO INCLUDE: BUILDING FOOTER/FOUNDATION REINFORCING STEEL TURNED UP OR OTHERWISE EXPOSED AT THE SERVICE LOCATION WITH APPROVED CONNECTOR TO BOND A GROUNDING CONDUCTOR SIZED PER TABLE 250 TO THE STEEL AND A DRIVEN ROD GROUND (MINIMUM 5/8" BY 8' DEEP) WITH #6 COPPER GROUNDING CONDUCTOR. IF AVAILABLE ON THE PREMISES, ALSO BOND METAL COLD WATER PIPING, METAL BUILDING FRAME AND GROUND RING WITH JUMPERS SIZED FROM 250-94.
- 3. ALL TELEPHONE, DATA, TELEVISION, AND OTHER TERMINAL EQUIPMENT SHALL BE BONDED TO THE GROUNDING ELECTRODE WITH MINIMUM #6 AWG-CU.

WARRANTY: NOTE

1. ELECTRICAL CONTRACTOR TO PROVIDE FULL WARRANTY (PARTS AND LABOR) ON ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE SCOPE OF WORK FOR A PERIOD OF ONE YEAR FROM THE CERTIFICATE OF OCCUPANCY.

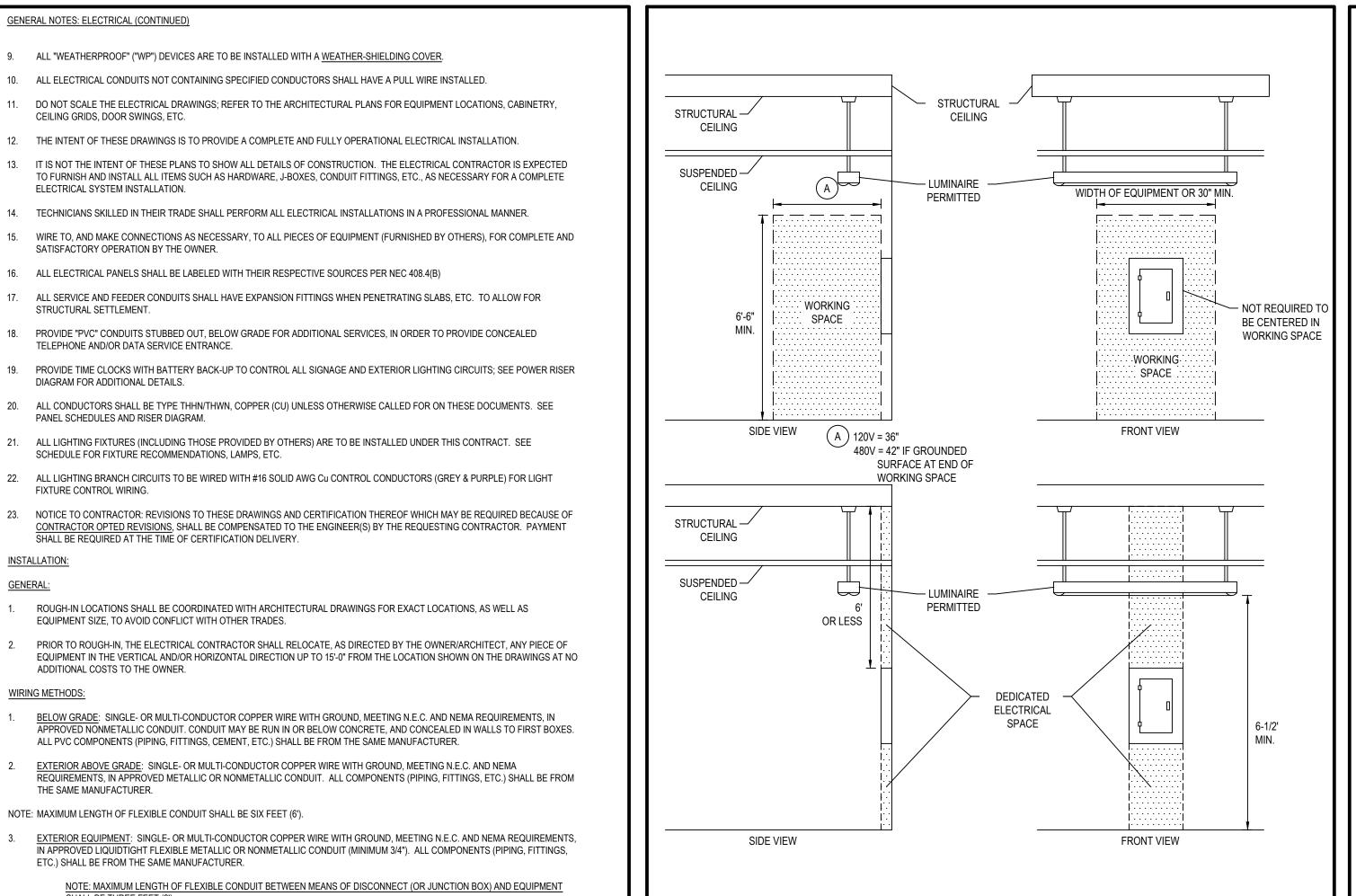
2. E.C. SHALL PROVIDE OWNER AND ENGINEER WITH REPRODUCIBLE "AS-BUILT" DRAWINGS SHOWING ALL REQUIRED MODIFICATIONS THAT HAVE OCCURRED IN THE FIELD.

ELEVATOR ROOMS (AS APPLICABLE)

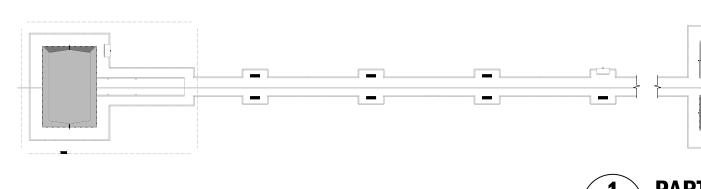
ALL ELEVATOR MACHINE ROOMS SHALL BE PROVIDED WITH A FUSED DISCONNECT FOR ALL EQUIPMENT INCLUDING EQUIPMENT ROOM AIR CONDITIONING SYSTEMS, LIGHTING, RECEPTACLES, ETC. (REGARDLESS OF PLAN SYMBOL) IN ACCORDANCE WITH ASME A17.1

SITE VERIFICATION NOTES

- 1. ALL ITEMS ON THESE DRAWINGS MARKED AS "EXISTING" OR "EXIST" SHALL BE VERIFIES IN FIELD ANY DIFFERENCES BETWEEN ITEMS OR EQUIPMENT INDICATED AS EXISTING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR ARCHITECT. PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE PHASE TO PHASE VOLTAGE AVAILABLE IS
- MAY INDICATE THE PRESENCE OF A "HIGH LEG" DELTA SYSTEM. ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR REQUIRED REVISIONS.
- SHALL BE LABELED PER 408.3 AND THE HIGH LEG CONDUCTOR TO BE MARKED PER 110.15.



WORKING SPACE/DEDICATED ELECTRICAL SPACE AT PANEL BOARDS DETAIL



PARTIAL KEY PLAN

CODE COMPLIANCE STATEMENT

ENTIRE INSTALLATION SHALL COMPLY WITH CODES BELOW, IN ADDITION TO ALL REFERENCED STANDARDS OR ANY OTHER LOCALLY ADOPTED AMENDMENTS.

FLORIDA BUILDING CODE FLORIDA ENERGY CODE: FLORIDA FIRE CODE: FLORIDA FUEL GAS CODE FLORIDA MECHANICAL CODE FLORIDA PLUMBING CODE NFPA 101 LIFE SAFETY CODE NATIONAL ELECTRICAL CODE

2023 EDITION 2020 EDITION

EQUAL TO EACH OTHER, AND EQUAL TO VOLTAGE SHOWN ON THESE DRAWINGS. A DIFFERENCE IN PHASE TO PHASE VOLTAGE

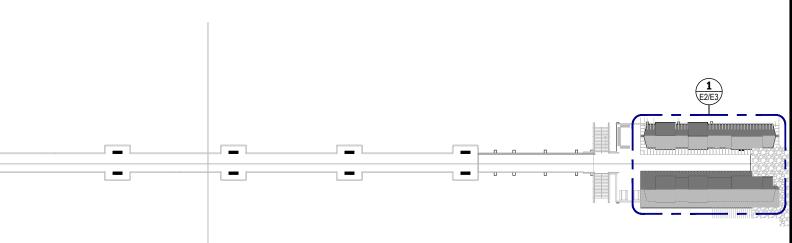
3. SPLIT PHASE CIRCUIT BREAKERS ARE NOT PERMITTED TO BE INSTALLED ON HIGH LEG DELTA SYSTEMS. HIGH LEG DELTA SYSTEMS

	ELECTRICAL PLAN LEGEND
(CLG	= CEILING) (SW=INSTALL PER 210.62) (U) = USB / DUPLEX RECEPTACLE
€	120V DUPLEX RECEPTACLE @ 18"AFF
€	120V DUPLEX RECEPTACLE @ 44"AFF (ABOVE COUNTER) OR SPECIAL HEIGHT)
\bigcirc	SPECIAL PURPOSE RECEPTACLE (VERIFY NEMA CONFIGURATION)
÷	QUADPLEX RECEPTACLE @ 44"AFF 120V
₽	QUADPLEX RECEPTACLE @ 18"AFF 120V
₽	DUPLEX GFCI RECEPTACLE @ 18"AFF 120V
	DUPLEX GFCI RECEPTACLE @ 44"AFF (ABOVE COUNTER) OR SPECIAL HEIGHT)
\ominus	SIMPLEX (ABOVE COUNTER) OR SPECIAL HEIGHT)
\$	SINGLE-POLE TOGGLE SWITCH (OS= OCCUPANCY SENSOR) (T=TIMER)
Þ	SINGLE-POLE DIMMER SWITCH (COMPATIBLE W/ LIGHT FIXTURE)
OS L	WALL MOUNTED OCCUPANCY SENSOR
©S	CEILING MOUNTED OCCUPANCY SENSOR
	DATA/PHONE ROUGH-IN BOX W/ 1" CONDUIT STUBBED TO CLG)
由	NON-FUSED DISCONNECT SWITCH
ď	FUSED DISCONNECT SWITCH
J	JUNCTION BOX (ACCESSIBLE)
	ELECTRICAL PANEL DIRECTIONAL SIGN (UL LISTED WITH 90 MINUTE BATTERY)
Ť	DUAL HEAD EMERGENCY LIGHT (UL LISTED WITH 90 MIN. BATTERY)
TV	COAXIAL CABLE ROUGH IN BOX
ଡ଼ୖୖୖ୴▼	120V RECEPTACLE COAXIAL CABLE, DATA ROUGH IN BOX - VERIFY FINAL HEIGHT
ČA)	CARD ACCESS READER ROUGH IN BOX
Ϋ́	

ELECTRICAL LEGEND NOTES

VERIFY ALL RECEPTACLE MOUNTING HEIGHTS WITH OWNER

LOW VOLTAGE INDICATED ON THESE DRAWINGS IS FOR ROUGH-IN BOX LOCATIONS ONLY AND DOES NOT INCLUDE ANY WIRING OR CABLING REQUIRED. ALL LOW VOLTAGE WILL BE PERMITTED SEPARATELY BY THE CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO DATA WIRING, SPEAKER WIRING, TV COAX WIRING ETC

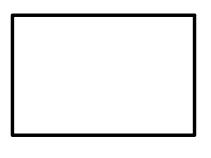


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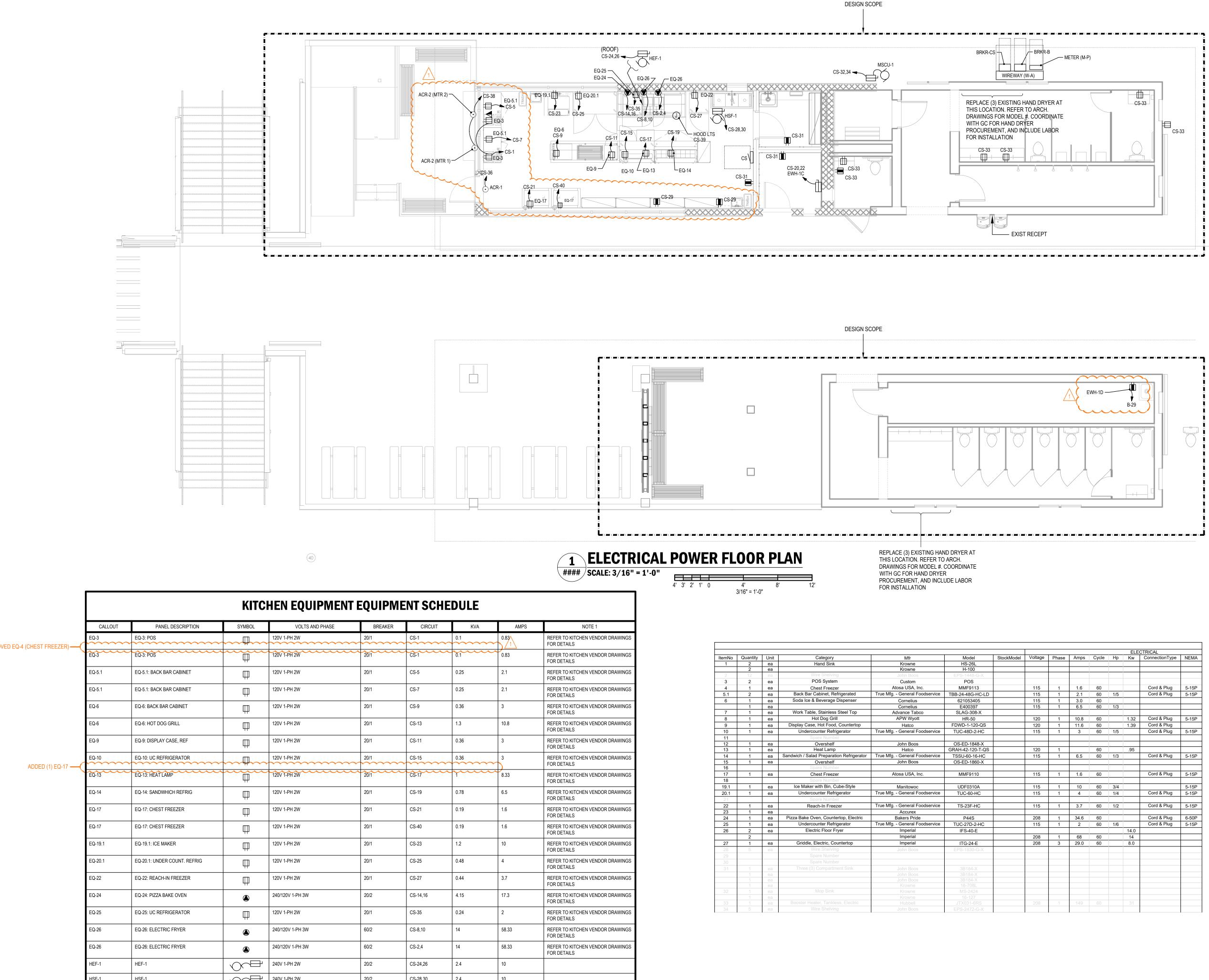
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BID D	BID DRAWINGS	1/24/2024
BID D	BID DRAWINGS	02/28/2024
PERMIT	IT	03/04/2024
	BLDG DEPT. COMMENTS 04/29 & 5/13/24	04/29 & 5/13/24



PHASE	95%
PR NO	23118
E	Ξ1



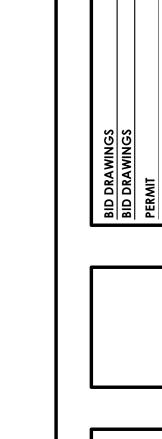
CALLO	UT PANEL DESCRIPTION	SYMBOL	VOLTS AND PHASE	BREAKER	CIRCUIT	KVA	
4 (CHEST FREEZER)(EQ-3	EQ-3: POS		120V 1-PH 2W	20/1	CS-1	0.1	0.83
EQ-3	EQ-3: POS		120V 1-PH 2W	20/1	CS-1	0.1	0.83
EQ-5.1	EQ-5.1: BACK BAR CABINET	ф	120V 1-PH 2W	20/1	CS-5	0.25	2.1
EQ-5.1	EQ-5.1: BACK BAR CABINET	ф	120V 1-PH 2W	20/1	CS-7	0.25	2.1
EQ-6	EQ-6: BACK BAR CABINET	ф	120V 1-PH 2W	20/1	CS-9	0.36	3
EQ-6	EQ-6: HOT DOG GRILL	ф	120V 1-PH 2W	20/1	CS-13	1.3	10.8
EQ-9	EQ-9: DISPLAY CASE, REF	ф	120V 1-PH 2W	20/1	CS-11	0.36	3
EQ-10	EQ-10: UC REFRIGERATOR		120V 1-PH 2W	20/1	CS-15	0.36	3
(1) EQ-17	EQ-13: HEAT LAMP		120V 1-PH 2W	20/1	CS-17	1	8.33
EQ-14	EQ-14: SANDWHICH REFRIG	ф	120V 1-PH 2W	20/1	CS-19	0.78	6.5
EQ-17	EQ-17: CHEST FREEZER	ф	120V 1-PH 2W	20/1	CS-21	0.19	1.6
EQ-17	EQ-17: CHEST FREEZER	ф	120V 1-PH 2W	20/1	CS-40	0.19	1.6
EQ-19.1	EQ-19.1: ICE MAKER	ф	120V 1-PH 2W	20/1	CS-23	1.2	10
EQ-20.1	EQ-20.1: UNDER COUNT. REFRIG	ф	120V 1-PH 2W	20/1	CS-25	0.48	4
EQ-22	EQ-22: REACH-IN FREEZER	ф	120V 1-PH 2W	20/1	CS-27	0.44	3.7
EQ-24	EQ-24: PIZZA BAKE OVEN		240/120V 1-PH 3W	20/2	CS-14,16	4.15	17.3
EQ-25	EQ-25: UC REFRIGERATOR	ф	120V 1-PH 2W	20/1	CS-35	0.24	2
EQ-26	EQ-26: ELECTRIC FRYER		240/120V 1-PH 3W	60/2	CS-8,10	14	58.33
EQ-26	EQ-26: ELECTRIC FRYER		240/120V 1-PH 3W	60/2	CS-2,4	14	58.33
HEF-1	HEF-1		240V 1-PH 2W	20/2	CS-24,26	2.4	10
HSF-1	HSF-1		240V 1-PH 2W	20/2	CS-28,30	2.4	10
MSCU-1	MSCU-1 & MSA1.1,2,3		240V 1-PH 2W	25/2	CS-32,34	4.2	17.5

YPE CONFIGURATION.

ELECTRICAL NOTES - FOOD PREP AREAS & GENERAL NOTES

- 1. RECEPTACLES LOCATED IN FOOD / BEVERAGE PREPARATION AREAS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC, ARTICLE 210.
- 1.1. ALL SINGLE PHASE RECEPTACLES RATED 50A OR LESS NOT EXCEEDING 150V TO GROUND SHALL BE GFCI PROTECTED.
- 1.2. THREE PHASE RECEPTACLES RATED 100A OR LESS NOT EXCEEDING 150V TO GROUND SHALL BE GFCI PROTECTED.
- 1.3. ALL GFCI PROTECTION DEVICES SHALL BE READILY ACCESSIBLE AND LOCATED WITHIN RESPECTIVE ELECTRIC PANEL
- ALL DISCONNECTS SERVING EQUIPMENT OR APPLIANCES SHALL BE PROVIDED WITH THE RESPECTIVE CLEARANCES IN ACCORDANCE WITH NEC 110.26. DISCONNECTS ON DRAWINGS ARE DIAGRAMMATIC AND CLEARANCES DICTATE EXACT PLACEMENT.
- 3. EMERGENCY & EXIT LIGHTING SHALL BE FED FROM THE NEAREST LIGHTING CIRCUIT. PROVIDE ADDITIONAL CONDUCTOR TO FEED EMERGENCY LIGHTING IN AREAS, INDEPENDENT OF ANY LIGHTING CONTROL. BRANCH CIRCUITS SERVING EMERGENCY LIGHTING SHALL BE LABELED WITHIN THE BRANCH CIRCUIT DIRECTORY.
- 4. SOME DATA LOCATIONS HAVE BEEN INDICATED ON THESE DRAWINGS HOWEVER NOT ALL LOW VOLTAGE INFORMATION HAS BEEN PROVIDED. CONTRACTOR TO COORDINATE WITH OWNER FOR FOR INFORMATION TO ENSURE ALL LOCATIONS AND QUANTITY OF WIRES IS PROVIDED TO PROVIDE A COMPLETE OPERATIONAL LOW VOLTAGE SYSTEM SUITABLE FOR OWNER. CONTRACTOR TO PROVIDE SEPARATE LOW VOLTAGE PERMIT COORDINATE WITH OWNER & GC PRIOR TO CONSTRUCTION.
- 5. ALL POWER UNDER HOOD SHALL BE SHUNT TRIPPED WHEN ANSUL SYSTEM IS ACTIVATED. REFER TO HOOD SHOP DRAWINGS.
- 6. ALL EXTERIOR RECEPTACLES TO BE WP, WR/GFCI PROTECTED, AND PROVIDED WITH IN-USE COVER.
- 7. KITCHEN EQUIPMENT POWER CONNECTIONS SHALL BE VERIFIED WITH OWNER, KITCHEN CONSULTANT, EQUIPMENT CUTSHEETS DURING CONSTRUCTION AS INFORMATION BECOMES AVAILABLE. MOUNTING HEIGHT FOR DEVICES SERVING KITCHEN EQUIPMENT SHALL BE VERIFIED. KITCHEN EQUIPMENT DRAWINGS ARE PROVIDED BY OTHERS, AND SUBJECT TOP CHANGE.

			FLE	CTRICAL	
Amps	Cycle	Нр	Kw	ConnectionType	NEMA
1.6	60			Cord & Plug	5-15P
2.1	60	1/5		Cord & Plug	5-15P
3.0	60	4/0			
6.5	60	1/3			
10.8	60		1.32	Cord & Plug	5-15P
11.6 3	60 60	1/5	1.39	Cord & Plug Cord & Plug	5-15P
3	60	1/5			5-15P
6.5	60 60	1/3	.95	Cord & Plug	5-15P
0.0	00	1/3			0-101
1.0				Cord & Plug	5.45D
1.6	60			Cord & Plug	5-15P
10	60	3/4			5-15P
4	60	1/4		Cord & Plug	5-15P
3.7	60	1/2		Cord & Plug	5-15P
34.6 2	60 60	1/6		Cord & Plug Cord & Plug	6-50P 5-15P
2	00	1/0	14.0		0-10F
68	60		14		
29.0	60		8.0		
149			31		



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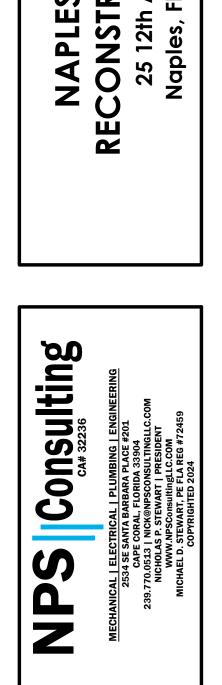
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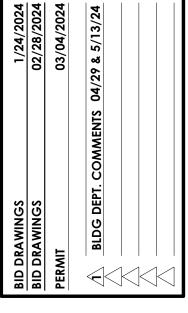
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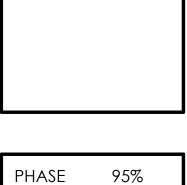
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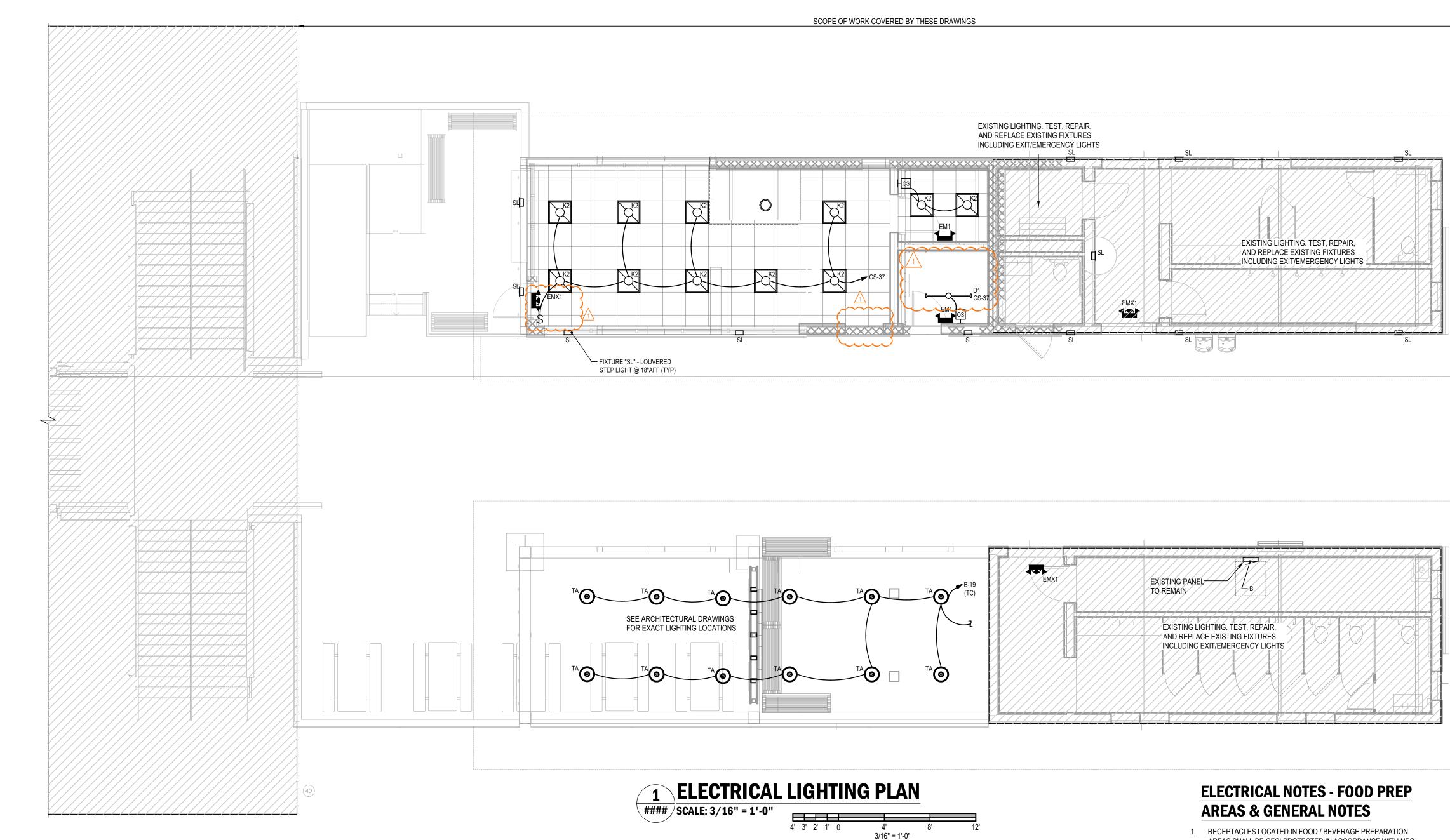
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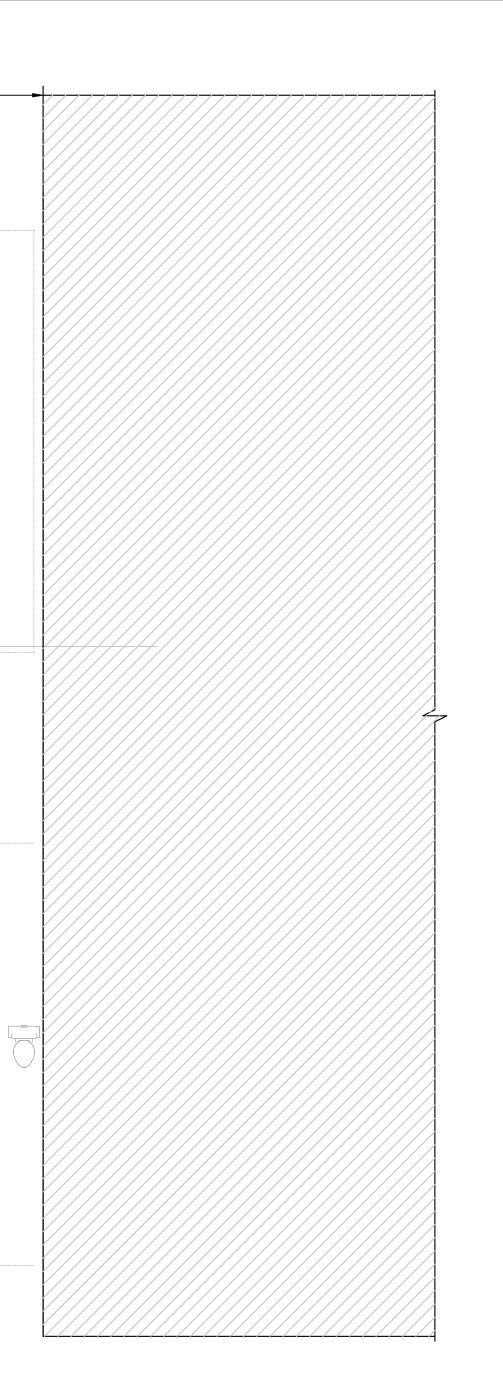


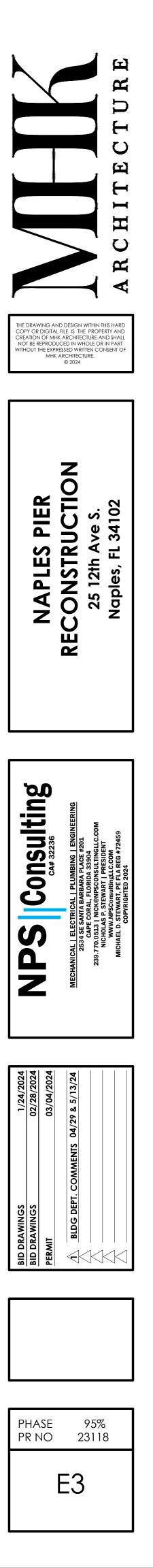
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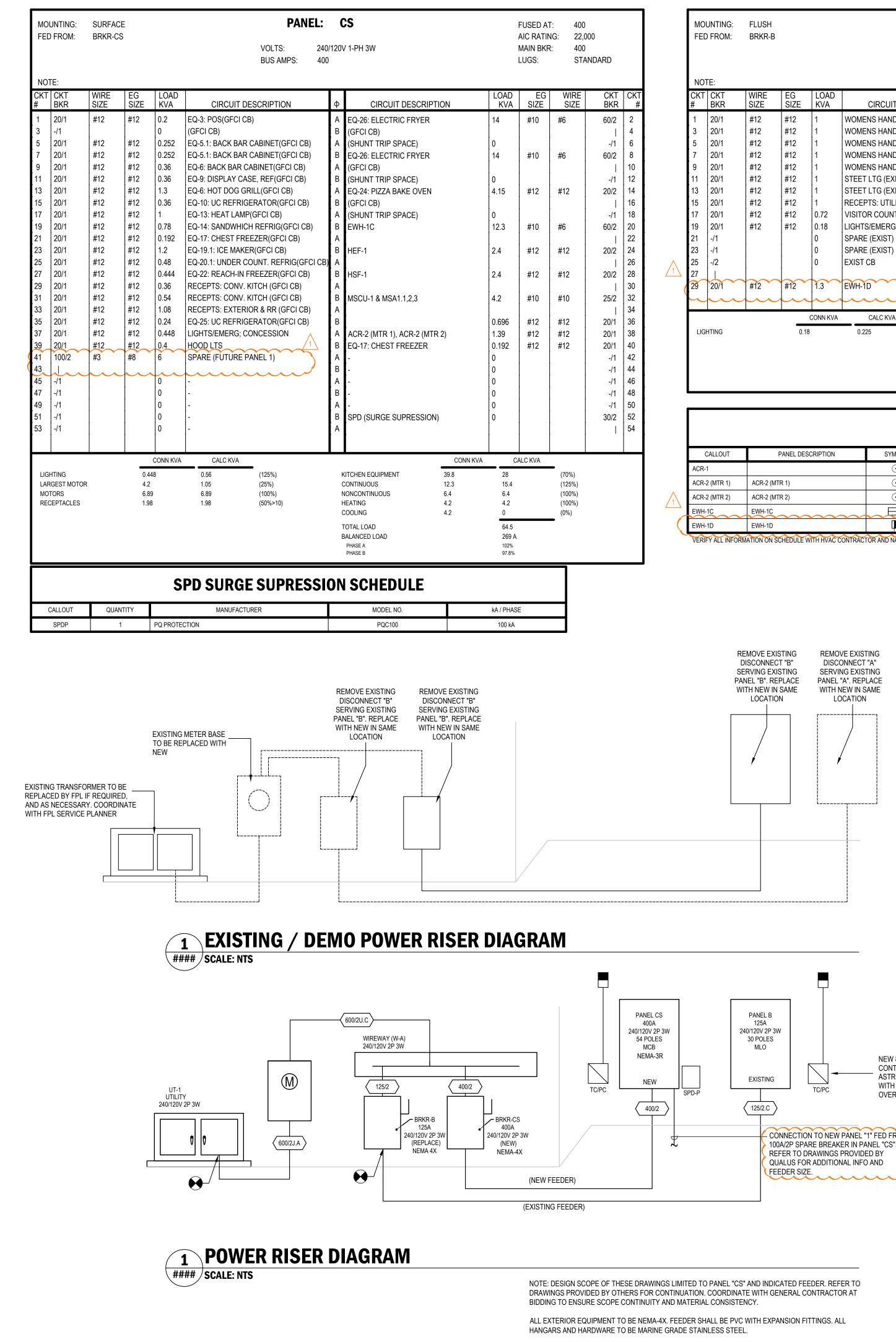


	LUMINAIRE SCHEDULE											
CALLOUT	QUANTITY	SYMBOL	DESCRIPTION	MOUNTING	MODEL	INPUT VA	VOLTS	NOTE 1				
DÍ			4FT LED LOW PROFILE LED WRAP	CEILING	DAYBRITE: NWL440L8CST-UNV-DIM-OCC	30	120V 1P 2W	0-10V/10%				
EM1	2	1	EMERGENCY LIGHT	WALL/CEILING	SIGNIFY:		120V 1P 2W					
EMX1	3		EXIT / EMERGENCY LIGHT, INTERIOR, CEILNIG MOUNT	CEILING	SIGNIFY:		120V 1P 2W					
K2		Q	FLAT PANEL 2x2 LAY-IN LED	RECESSED	DAY-BRITE: 2 FPZ 38L 835 2 DS UNV DIM	38	120V 1P 2W					
SL	12		REFER TO ARCHITECTURAL DRAWINGS	SURFACE	REFER TO ARCHITECTURAL DRAWINGS	5	120V 1P 2W					
TA	12	۲	REFER TO ARCHITECTURAL DRAWINGS	CEILING	REFER TO ARCHITECTURAL DRAWINGS	15	120V 1P 2W	REFER TO ARCHITECTURAL DRAWING				

- AREAS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC, ARTICLE 210. 1.1. ALL SINGLE PHASE RECEPTACLES RATED 50A OR LESS NOT
- EXCEEDING 150V TO GROUND SHALL BE GFCI PROTECTED. 1.2. THREE PHASE RECEPTACLES RATED 100A OR LESS NOT EXCEEDING 150V TO GROUND SHALL BE GFCI PROTECTED.
- 1.3. ALL GFCI PROTECTION DEVICES SHALL BE READILY ACCESSIBLE AND LOCATED WITHIN RESPECTIVE ELECTRIC PANEL.
- 2. ALL DISCONNECTS SERVING EQUIPMENT OR APPLIANCES SHALL BE PROVIDED WITH THE RESPECTIVE CLEARANCES IN ACCORDANCE WITH NEC 110.26. DISCONNECTS ON DRAWINGS ARE DIAGRAMMATIC AND CLEARANCES DICTATE EXACT PLACEMENT.
- 3. EMERGENCY & EXIT LIGHTING SHALL BE FED FROM THE NEAREST LIGHTING CIRCUIT. PROVIDE ADDITIONAL CONDUCTOR TO FEED EMERGENCY LIGHTING IN AREAS, INDEPENDENT OF ANY LIGHTING CONTROL. BRANCH CIRCUITS SERVING EMERGENCY LIGHTING SHALL BE LABELED WITHIN THE BRANCH CIRCUIT DIRECTORY.
- 4. SOME DATA LOCATIONS HAVE BEEN INDICATED ON THESE DRAWINGS HOWEVER NOT ALL LOW VOLTAGE INFORMATION HAS BEEN PROVIDED. CONTRACTOR TO COORDINATE WITH OWNER FOR FOR INFORMATION TO ENSURE ALL LOCATIONS AND QUANTITY OF WIRES IS PROVIDED TO PROVIDE A COMPLETE OPERATIONAL LOW VOLTAGE SYSTEM SUITABLE FOR OWNER. CONTRACTOR TO PROVIDE SEPARATE LOW VOLTAGE PERMIT. COORDINATE WITH OWNER & GC PRIOR TO CONSTRUCTION.
- 5. ALL POWER UNDER HOOD SHALL BE SHUNT TRIPPED WHEN ANSUL SYSTEM IS ACTIVATED. REFER TO HOOD SHOP DRAWINGS.
- 6. ALL EXTERIOR RECEPTACLES TO BE WP,WR/GFCI PROTECTED, AND PROVIDED WITH IN-USE COVER.
- 7. KITCHEN EQUIPMENT POWER CONNECTIONS SHALL BE VERIFIED WITH OWNER, KITCHEN CONSULTANT, EQUIPMENT CUTSHEETS DURING CONSTRUCTION AS INFORMATION BECOMES AVAILABLE. MOUNTING HEIGHT FOR DEVICES SERVING KITCHEN EQUIPMENT SHALL BE VERIFIED. KITCHEN EQUIPMENT DRAWINGS ARE PROVIDED BY OTHERS, AND SUBJECT TOP CHANGE.







MOUNTING: FLUSH FED FROM: BRKR-B VOLTS: 240/120V 1-PH 3W BUS AMPS: 125								FUSED AT: 125 AIC RATING: 10,000 MAIN BKR: MLO LUGS: STANDARD					
CKT		WIRE SIZE	EG SIZE	LOAD KVA	CIRCUIT DESCRIPTION	φ	CIRCUIT DESCRIPTION	LOAD KVA	EG SIZE	WIRE SIZE	CKT BKR	С	
1	20/1	#12	#12	1	WOMENS HAND DRYER (EXIST)	А	MENS HAND DRYER (EXIST)	1	#12	#12	20/1	2	
3	20/1	#12	#12	1	WOMENS HAND DRYER (EXIST)		MENS HAND DRYER (EXIST)	1	#12	#12	20/1	4	
5	20/1	#12	#12	1	WOMENS HAND DRYER (EXIST)	A	MENS HAND DRYER (EXIST)	1	#12	#12	20/1	6	
7	20/1	#12	#12	1	WOMENS HAND DRYER (EXIST)	В	MENS HAND DRYER (EXIST)	1	#12	#12	20/1	8	
9	20/1	#12	#12	1	WOMENS HAND DRYER (EXIST)	А	MENS HAND DRYER (EXIST)	1	#12	#12	20/1	1	
11	20/1	#12	#12	1	STEET LTG (EXIST)	В	WATER COOLER (EXIST)	1	#12	#12	20/1	1	
13	20/1	#12	#12	1	STEET LTG (EXIST)	А	LIGHTS/EMERG; MENS RM (EXIST)	0.65	#12	#12	20/1	1	
15	20/1	#12	#12	1	RECEPTS: UTILITY RM (EXIST)	В	WATER SYSTEM (EXIST)	0.6	#12	#12	20/1	1	
17	20/1	#12	#12	0.72	VISITOR COUNTER (EXIST)	А	SECURITY (EXIST)	1.08	#12	#12	20/1	1	
19	20/1	#12	#12	0.18	LIGHTS/EMERG; SEATING (EXIST)	В	SPARE (EXIST)	0			-/1	2	
21	-/1			0	SPARE (EXIST)	А	SPARE (EXIST)	0			-/1	2	
23	-/1			0	SPARE (EXIST)	В	SPARE (EXIST)	0			-/1	2	
25	-/2			0	EXIST CB	А	SPD (SURGE SUPRESSION)	0			30/2	2	
27						В	(EXIST)					2	
29	20/1	#12	#12	1.3	EWH-1D	A	- ,	0			-/1	3	
				CONN KVA	CALC KVA		CONN K	VA C	ALC KVA				
LIGH	ITING		0.18		0.225 (125%)		RECEPTACLES 0.72 NONCONTINUOUS 17.6	0.72 17.6		(50%>10) (100%)			
							FOTAL LOAD BALANCED LOAD PHASE A PHASE B	18.6 77.4 A 116% 84%		-			

			E	QUIPMENT CONN	ECTION S	CHEDUL	E		
	CALLOUT	PANEL DESCRIPTION	SYMBOL	VOLTS AND PHASE	BREAKER	CIRCUIT	KVA	AMPS	NOTE 1
	ACR-1		\odot	120V 1-PH 2W	20/1	CS-36	0.7	5.8	
	ACR-2 (MTR 1)	ACR-2 (MTR 1)	\odot	120V 1-PH 2W	20/1	CS-38	0.7	5.8	
\bigwedge	ACR-2 (MTR 2)	ACR-2 (MTR 2)	\odot	120V 1-PH 2W	20/1	CS-38	0.7	5.8	
	EWH-1C	EWH-1C		240V 1-PH 2W	60/2	CS-20,22	12.3	51.25	
	EWH-1D	EWH-1D		120V 1-PH 2W	20/1	B-29	1.3	10.83	

VERIFY ALL INFORMATION ON SCHEDULE WITH HVAC CONTRACTOR AND NAMEPLATE DATA. MOCP SUBJECT TO CHANGE.

ROOM MOUNTING SURFAC FED FROM METER (NOTE		VOL	TS 240/120V 2P 3W				AIC 22,000 LUGS STANDA	ARD	
CKT BREAKER				LOAD	KVA				
# TRIP/POLES	CIRCUIT DESCRIPTIO	N		А	В	FEEDER RACEV	AY AND CONDUCT	ORS	
1 125/2 2 400/2 3 -/2	BREAKER BRKR-B BREAKER BRKR-CS -		10.8 36.8 0	7.78 35.2 0	1-1/4"C,2#1,#1N,#6G (2)2"C,2#3/0,#3/0N,#3G				
		TOTAL CON	NECTED KVA BY PHASE	47.5	43				
	CONN KVA	CALC KVA					CONN KVA	CALC KVA	
LIGHTING LARGEST MOTOR MOTORS RECEPTACLES	0.628 4.2 6.89 2.7	0.785 1.05 6.89 2.7	(125%) (25%) (100%) (50%>10)	CONTIN	NTINUOUS G	Т	39.8 12.3 24 4.2 4.2	28 15.4 24 4.2 0	(70%) (125%) (100%) (100%) (0%)
				TOTAL BALANO	LOAD CED LOAD			83 346 A	-

	FEEDER SCHEDULE									
ID	FEEDER AMPS	CONDUIT AND FEEDER								
125/2	125	1-1/4"C,2#1,#1N,#6G								
(125/2.C)	125	1-1/2"C,2#1,#1N,#6G								
400/2	400	(2)2"C,2#3/0,#3/0N,#3G								
600/2J,A	600	(2)3"C,2#350kcmil,#350kcmil N,#1/0G								
600/2U.C	600	(2)3"C,2#350kcmil,#350kcmil N								
SIZING METHOD: NEC 310.15										

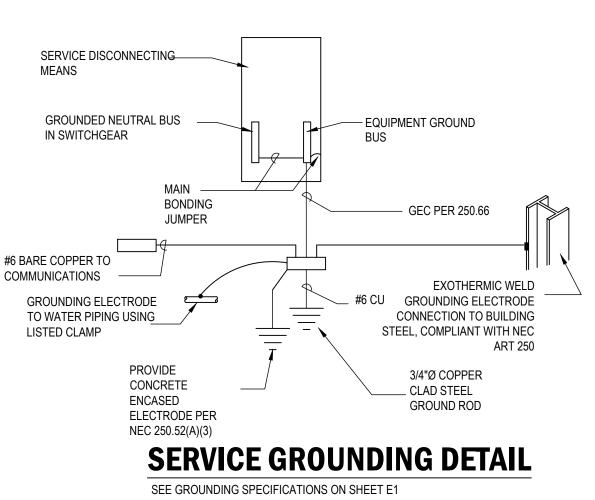
SIZING	MET	HOD:	NEC	310.15

BIDDING PURPOSES.

VOLTAGE DROP SCHEDULE

DEVICE		FEEDER		TOTAL
	VOLTAGE DROP	WIRE SIZE	LENGTH	VOLTAG DROP
UT-1	0%		-	0%
METER (M-P)	0.51%	(2)#350kcmil	67'	0.51%
WIREWAY (W-A)	0.63%	(2)#350kcmil	15'	0.63%
BRKR-B	0.74%	#1	13'	0.74%
В	1.12%	#1	47'	1.79%
BRKR-CS	0.73%	(2)#3/0	11'	0.73%
CS	1.19%	(2)#3/0	51'	2.86%

NEW 8-POLE LIGHTING **CONTROLLER & DIGITAL** ASTROMICAL TIMECLOCK WITH BATTERY +PHOTOCELI OVER-RIDE (TYP OF 2) - CONNECTION TO NEW PANEL "1" FED FROM 100A/2P SPARE BREAKER IN PANEL "CS".

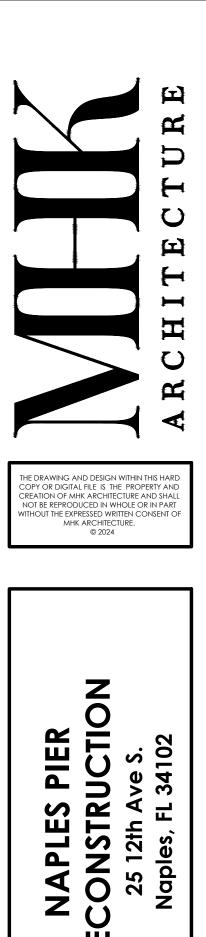


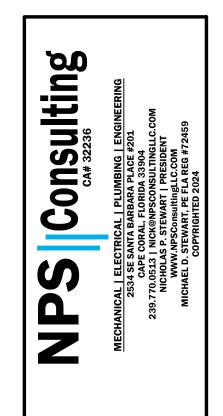


FAULT CURRENT SCHEDULE				
DEVICE	FAULT	AIC RATING	L-L VOLTS	L-N VOLTS
UT-1	18,039	22,000	240V	120V
METER (M-P)	14,572	22,000	240V	120V
WIREWAY (W-A)	13,950	22,000	240V	120V
BRKR-B	12,306	22,000	240V	120V
В	8,125	10,000	240V	120V
BRKR-CS	13,197	22,000	240V	120V
CS	10,632	22,000	240V	120V

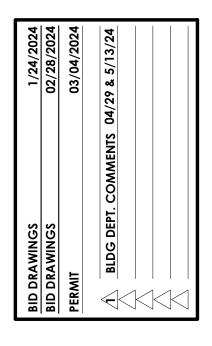
FEEDER LENGTHS INDICATED WITHIN FAULT CURRENT SCHEDULE ARE FOR REFERENCE ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES.

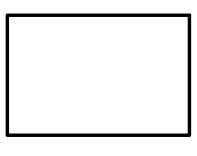
THE SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE EMVIRONMENT IN WHICH IT IS INSTALLED PER SECTION 110.24(A)





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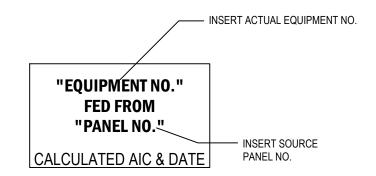




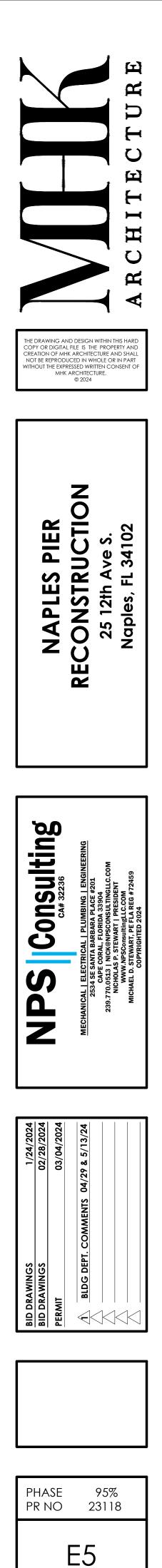
PHASE	95%
PR NO	23118
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GENERAL ELECTRICAL NOTES

- 1. CONTRACTOR SHALL PROVIDE CATALOG CUT SHEET SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS UNDER CONTRACTORS SCOPE OF SUPPLY. OWNER APPROVAL IS REQUIRED PRIOR TO PROCUREMENT.
- ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED AND SHALL BEAR THE UL LABEL.
- 3. ALL WORK SHALL COMPLY WITH THE OF THE NEC (NFPA 70)
- 4. CONDUIT ROUTING SHOWN ON THE DRAWINGS IS SCHEMATIC. CONTRACTOR TO COORDINATE INSTALLATION WITH OTHER TRADES.
- 5. CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL POWER PANELS AND PANELBOARDS AFFECTED BY THIS PROJECT.
- 6. CONTRACTOR SHALL FURNISH AND INSTALL BLACK PHENOLIC NAMEPLATES ETCHED TO REVEAL 1/4" WHITE LETTERS FOR ALL ELECTRICAL EQUIPMENT INSTALLED IN ELECTRIC ROOMS OR COMMON AREA LOCAL DISCONNECT SHALL BE LABELED WITH EQUIPMENT NUMBER OF THE EQUIPMENT FED, AND SHALL INDICATE SOURCE OF SUPPLY.



- 8. LIGHT SWITCHES SHALL BE MOUNTED AT 48" AFF.
- 9. PROVIDE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALL PENETRATIONS.
- 10. CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, OR EQUAL, SUPPORT BRACKETS AS REQUIRED FOR ALL DISCONNECTS SWITCHES, PANELS, ETC.
- 11. CONTRACTOR SHALL COORDINATE LOCATION OF INDUSTRIAL LIGHT FIXTURES IN MECHANICAL SPACES TO AVOID MECHANICAL EQUIPMENT AND DUCTWORK.



GENERAL STRUCTURAL NOTES

GENERAL: DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS: THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2023 8th EDITION OF THE FLORIDA BUILDING CODE. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. ADDITIONS ARE IN COMPLIANCE WITH THE 2023 EDITION OF THE FLORIDA EXISTING BUILDING CODE.

EXISTING CONDITIONS: ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

DESIGN CRITERIA: DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2020 FLORIDA BUILDING CODE. THE FOLLOWING LOADS WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2023 FBC.

SUPERIMPOSED DEAD LOADS: ROOF

20 PSF 300 POUND CONCENTRATED

INCLUDES 5 PSF AND A 250 LB POINT LOAD FOR SPRINKLER PIPING.

20 PSF

30 PSF

5.0 IN/HR

ROOF LIVE LOAD: RAIN LOAD: RAIN

RAINFALL INTENSITY WIND SPEED (ASCE 7-22)

RISK CATEGORY EXPOSURE INTERNAL PRESSURE COEFF 0.0 INTERNAL PRESSURE COEFF +/- 0.55 INTERNAL PRESSURE COEFF +/- 0.18 WALL PRESSURE

170 MPH (132 MPH ALLOWABLE) OPEN BUILDING PARTIALLY ENCLOSED ENCLOSED +/- 60 PSF

OPENINGS LOCATED WITHIN 30FT OF GRADE SHALL BE PROTECTED FROM WIND BORNE DEBRIS PER MISSILE LEVEL D OF ASTM E1996.

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

CONCRETE MIX DESIGNS,

CONCRETE AND MASONRY REINFORCING, EMBEDDED STEEL ITEMS.

SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE REVIEW AND ACCEPTANCE OF THE ENGINEER.

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW.

CONCRETE: REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

4000 PSI

ALL USES

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CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33

A WATER-REDUCING ADMIXTURE, IF USED, SHALL CONFORM TO ASTM C494 AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER 'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE. WHERE INDICATED OR REQUIRED, SLOPE CONCRETE SLABS TO DRAINS SHOWN ON PLUMBING AND/OR ARCHITECTURAL DRAWINGS.

ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS.

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A1064 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

1-1/2" TO STIRRUPS BEAMS

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318-19, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS. SHOW ALL SPLICES ON SHOP DRAWINGS. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

AT SLAB RE-ENTRANT CORNERS, PROVIDE (2) #5 X 4'-0" DIAGONAL BARS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (2) #5 BARS ALL FOUR SIDES AND DIAGONALLY; EXTEND THESE BARS A LAP DISTANCE OR A MINIMUM OF 24" PAST THE OPENING OR HOOK BARS IF DISCONTINUOUS.

DOWEL ALL WALLS AND COLUMNS TO FOOTINGS WITH BAR SIZE AND SPACING TO MATCH VERTICAL REINFORCING UNLESS OTHERWISE SHOWN.

MASONRY WALLS: MASONRY UNITS SHALL MEET ASTM C90, TYPE 2. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'm= 2,000 PSI. MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C270. GROUT SHALL MEET ASTM C476. GROUT STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY TESTS PER ASTM C1019. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO CAUSE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. ALL CELLS CONTAINING VERTICAL BARS, BOND BEAMS, AND ALL CELLS BELOW GRADE SHALL BE FILLED WITH GROUT. MAXIMUM HEIGHT OF GROUT POUR ALLOWED IS 4'-0" UNLESS CLEAN-OUT OPENING IS PROVIDED AT BOTTOM OF CELLS TO BE FILLED. LOCATE CLEAN-OUT OPENINGS IN AREAS NOT EXPOSED TO VIEW.

UNLESS NOTED OTHERWISE EIGHT INCH MASONRY WALLS SHALL BE PARTIALLY REINFORCED MASONRY WALL CONSTRUCTION WITH #5 AT 48 INCH O.C. IN GROUT FILLED CELLS. ADD (1) #5 REINFORCING BAR EACH SIDE OF OPENINGS EXCEEDING 3 FEET.

PROVIDE REINFORCING BARS AT CORNERS, INTERSECTIONS, AND EACH SIDE OF OPENINGS. PROVIDE (2) REINFORCING BARS EACH SIDE OF OPENINGS OVER 4 FEET WIDE, AND AS SHOWN ON THE PLANS. PROVIDE HOOKED DOWELS INTO FOOTINGS AND STRUCTURE ABOVE AND/OR BELOW TO PROVIDE CONTINUITY. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O -WAL OR ENGINEER-APPROVED EQUAL) AT 16" O.C. REINFORCING LAPS TO BE 48 BAR DIAMETERS.

DO NOT PLACE CONDUITS, PIPES, ETC., IN CELLS WITH VERTICAL REINFORCING. DO NOT RUN CONDUITS, PIPES, ETC., HORIZONTALLY IN CMU WALLS PARALLEL TO LENGTH OF WALL. WHERE MASONRY WALLS ABUT CONCRETE COLUMNS TO BE PLACED PRIOR TO ERECTION OF MASONRY WALLS, PROVIDE DOVETAIL SLOTS BETWEEN COLUMN AND WALLS AND GROUT THE CMU CELL CONTAINING THE DOVETAIL ANCHORS. OTHERWISE, EXTEND CMU HORIZONTAL JOINT REINFORCING THROUGH CONCRETE COLUMN.

CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT A SPACING NOT TO EXCEED THREE TIMES WALL HEIGHT OR 30'-0" MAXIMUM. COORDINATE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT CONTROL JOINTS.

USE METAL LATH OR WIRE SCREEN FOR CAVITY CAPS. SHEET METAL, FELT, BUILDING PAPER, OR LIKE MATERIALS ARE PROHIBITED.

TIE BEAMS: TIE BEAMS SHALL BE CONCRETE, POURED AFTER THE BLOCK WALLS BELOW ARE IN PLACE. REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS WITH MINIMUM LAP SPLICES OF 48 BAR DIAMETERS AND BENT BARS AT CORNERS. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE TO AREA REQUIRED, IN ACCORDANCE WITH ACI 530.1, SECTION 3.5 B. SOLID METAL OR FELT CAVITY CAPS ARE PROHIBITED

PRECAST CONCRETE LINTELS: UNLESS INDICATED OTHERWISE, ALL LINTELS TO BE "U" TYPE PRECAST CONCRETE UNITS EQUAL TO UNITS MANUFACTURED BY CAST-CRETE CORP. AND PRESTRESSED (AND ADDITIONALLY REINFORCED AS REQUIRED) IN ACCORDANCE WITH CAST -CRETE CORP. "DESIGN MANUAL", LATEST EDITION, FOR THE SPAN AND LOADING CONDITION RELATIVE TO LINTEL LOCATION.

LINTEL SIZE IF NOT SHOWN ON THE PLANS SHALL BE 8F8-1B FOR OPENINGS LESS THAN 10 FEET AND 8F16-1B/1T FOR OPENINGS 10 FEET TO 20 FEET. PROVIDE 8" MINIMUM BEARING FOR LINTELS UNLESS NOTED OTHERWISE.

SAWN LUMBER: SAWN LUMBER SHALL BE SOUTHERN PINE #2 WITH THE ALLOWABLE FIBER STRESSES PER THE AWC NATIONAL DESIGN SPECIFICATION.

ALL LUMBER EXPOSED TO WEATHER SHALL BE PROTECTED OR PRESSURE TREATED. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED.

ALL FRAMING NAILS SHALL BE COMMON NAILS AND SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS. NAILING NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.10.1 OF THE FBC. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

WOOD FRAMING CONNECTORS: FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL CONNECTORS SHALL BE STAINLESS STEEL. UNLESS SHOWN OTHERWISE, INSTALL MAXIMUM SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG.

MULTIPLY WOOD BEAMS: HEADERS AND LEDGERS LOADED FROM TOP SHALL BE CONNECTED TOGETHER WITH 2 ROWS SIMPSON SDW SCREWS AT 16" OC THROUGH ALL PLYS WITH 1 3/8" MINUMUM EMBEDMENT. HEADERS AND LEDGERS LOADED BY FACE-MOUNTED BUCKETS SHALL BE CONNECTED TOGETHER AS FOLLOWS: 2X6 AND 2X8 CONNECTED TOGETHER WITH 2 ROWS SIMPSON SDW SCREWS AT 12 " OC, 2X10 AND 2X12 CONNECTED TOGETHER WITH 3 ROWS SIMPSON SDW SCREWS AT 12 " OC.

SDW SCREWS SHALL BE INSTALLED WITH 1 1/2" EDGE DISTANCE, 6" END DISTANCE, AND 4" MINIMUM CENTER TO CENTER.

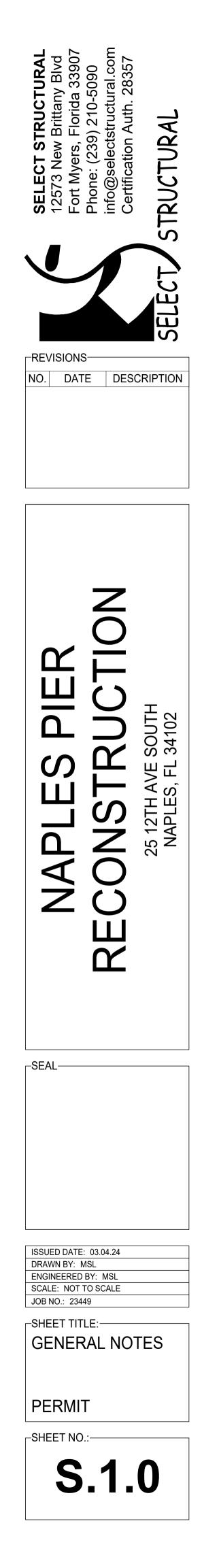
PLYWOOD: PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS OTHERWISE NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.

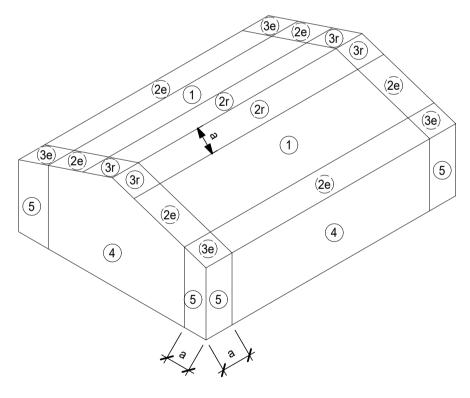
PLYWOOD INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8 "SPACING AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. STAGGER ENDS OF ADJACENT PANELS 4'-0".

ROOF SHEATHING SHALL BE 3/4" PLYWOOD, BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH 10d RINGSHANK NAILS SPACED 4" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

SOFFITS: SOFFITS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES FOR WALLS SPECIFIED IN THE COMPONENT AND CLADDING CHART. SOFFITS SHALL BE CONSTRUCTED WITH 2x4 AT 24" OC WITH 1/2" PLYWOOD WITH 8d @ 4" OC EDGES AND 6" OC FIELD OR PER FLORIDA PRODUCT APPROVAL.





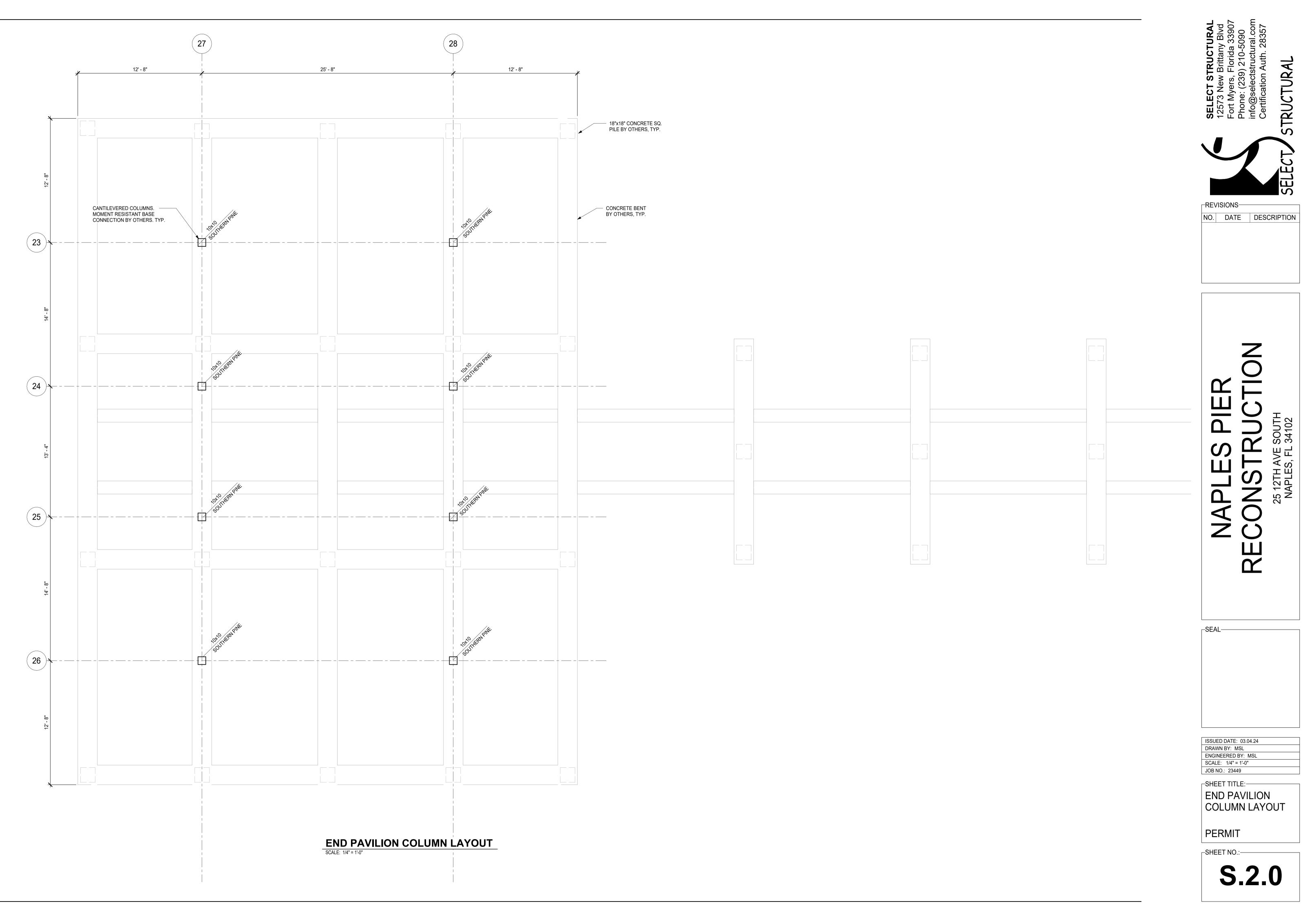
GABLE ROOF

	ALLOWABLE CO	OMPONENT & C	_ADDING WIND P	RESSURES (PSF)		
ZONE			TRIBUTARY AREA			
	ZONE		36 SQ FT	144 SQ FT	300 SQ FT	
	INTERIOR	1	34 / -25	34 / -25	34 / -25	
ROOF	RIDGE/EDGE	2	52 / -37	52 / -37	34 / -25	
	CORNER	3	68 / -49	52 / -37	34 / -25	

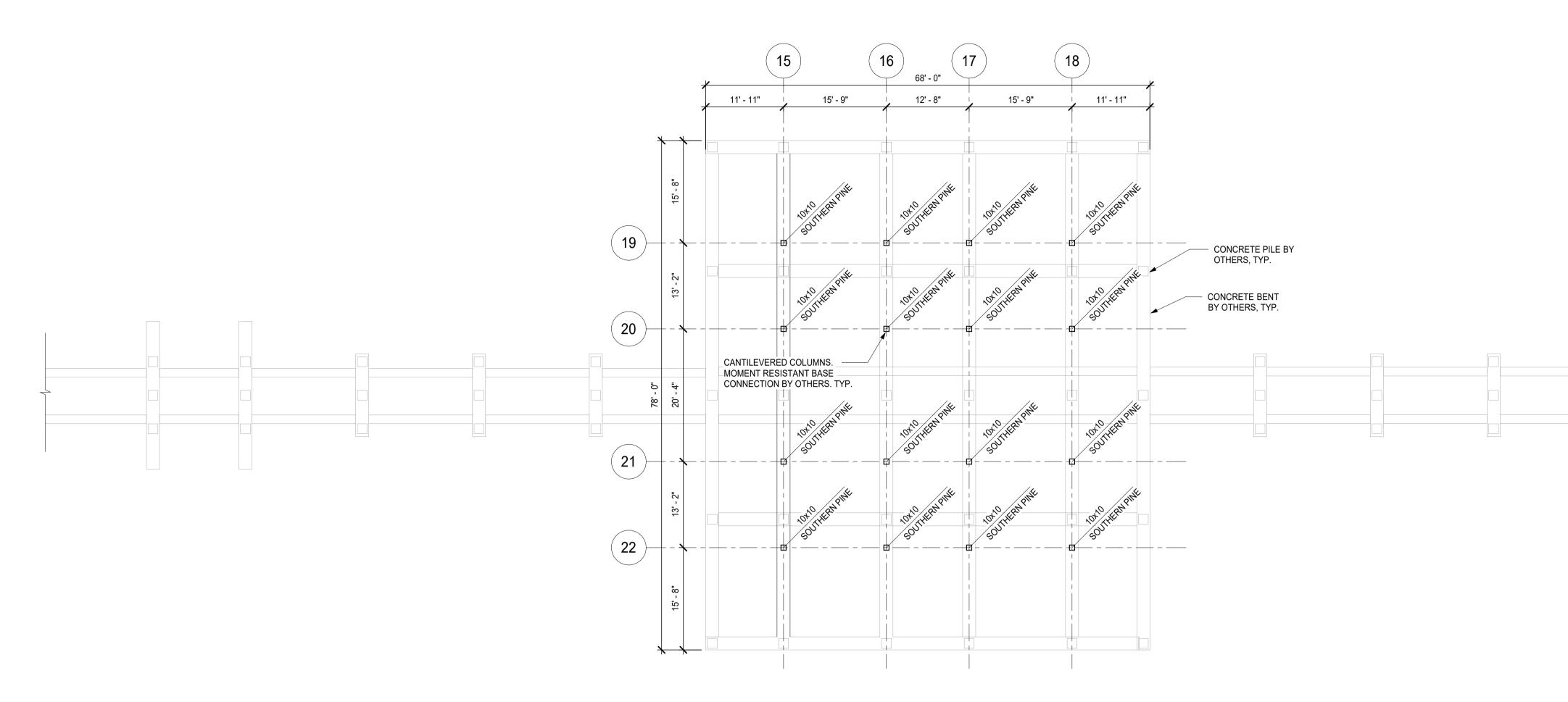
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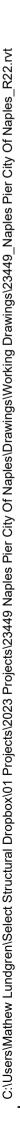
COMPONENT & CLADDING DIAGRAM

SCALE: NOT TO SCALE

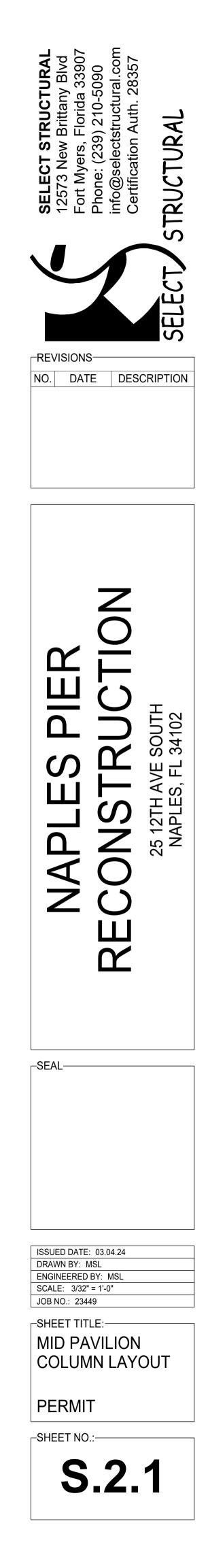


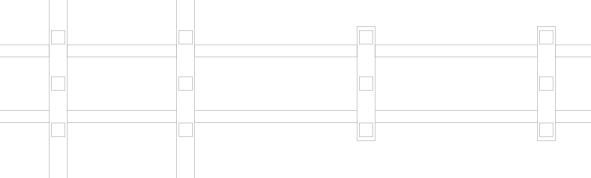
lsers\Mathew Lundgren\Select Structural Dropbox\01 Projects\2023 Projects\23449 Naples Pier City Of Naples\Drawings\Working Drawings\23449_Naples Pier City Of Naples_K

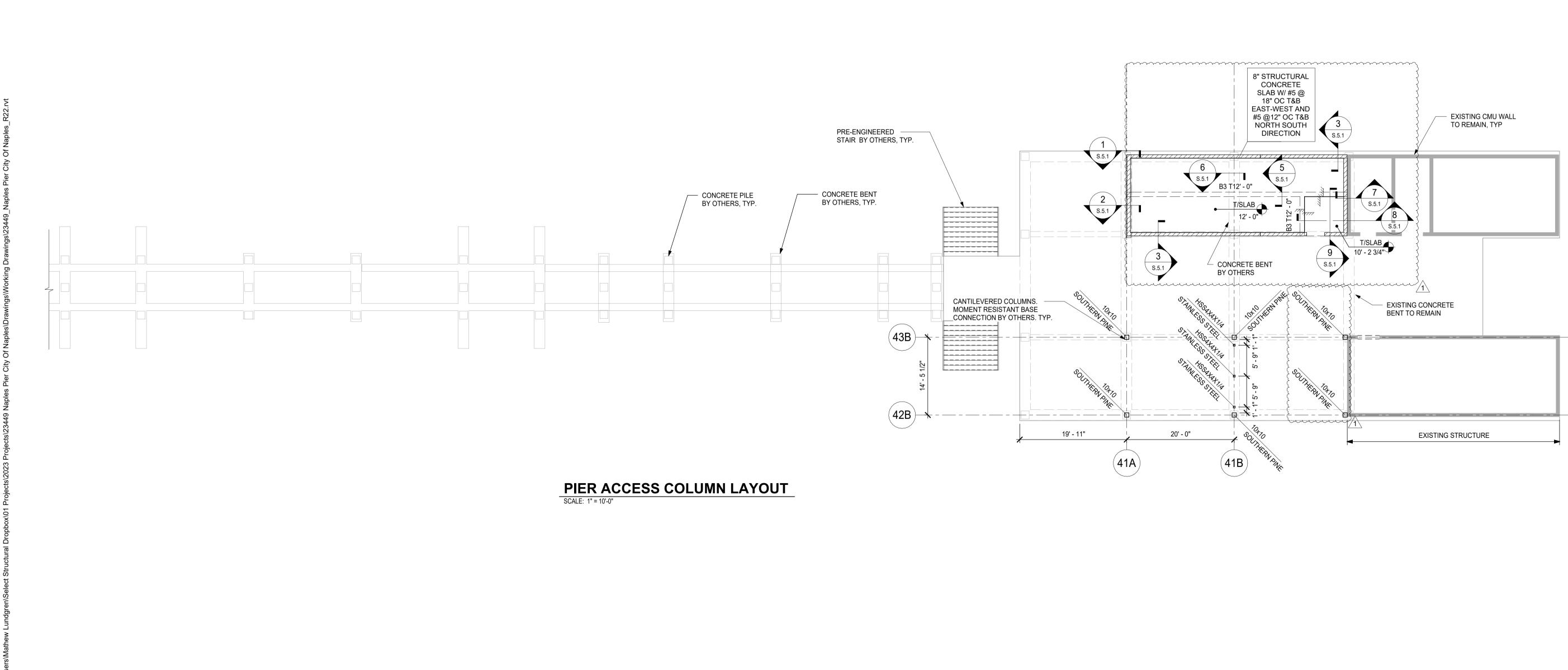




MID PAVILION COLUMN LAYOUT SCALE: 3/32" = 1'-0"



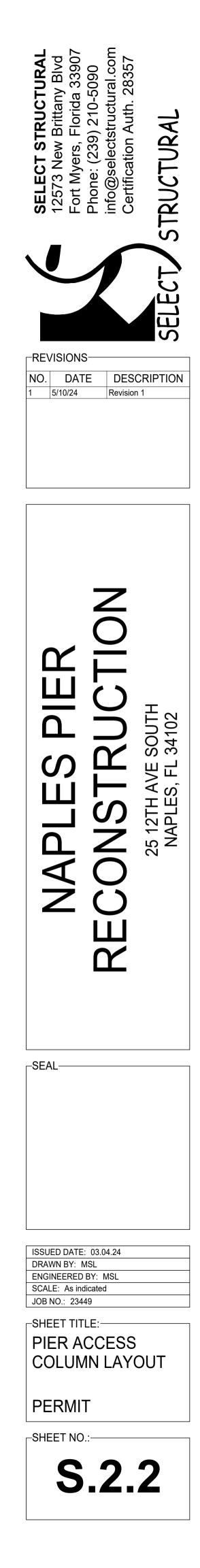


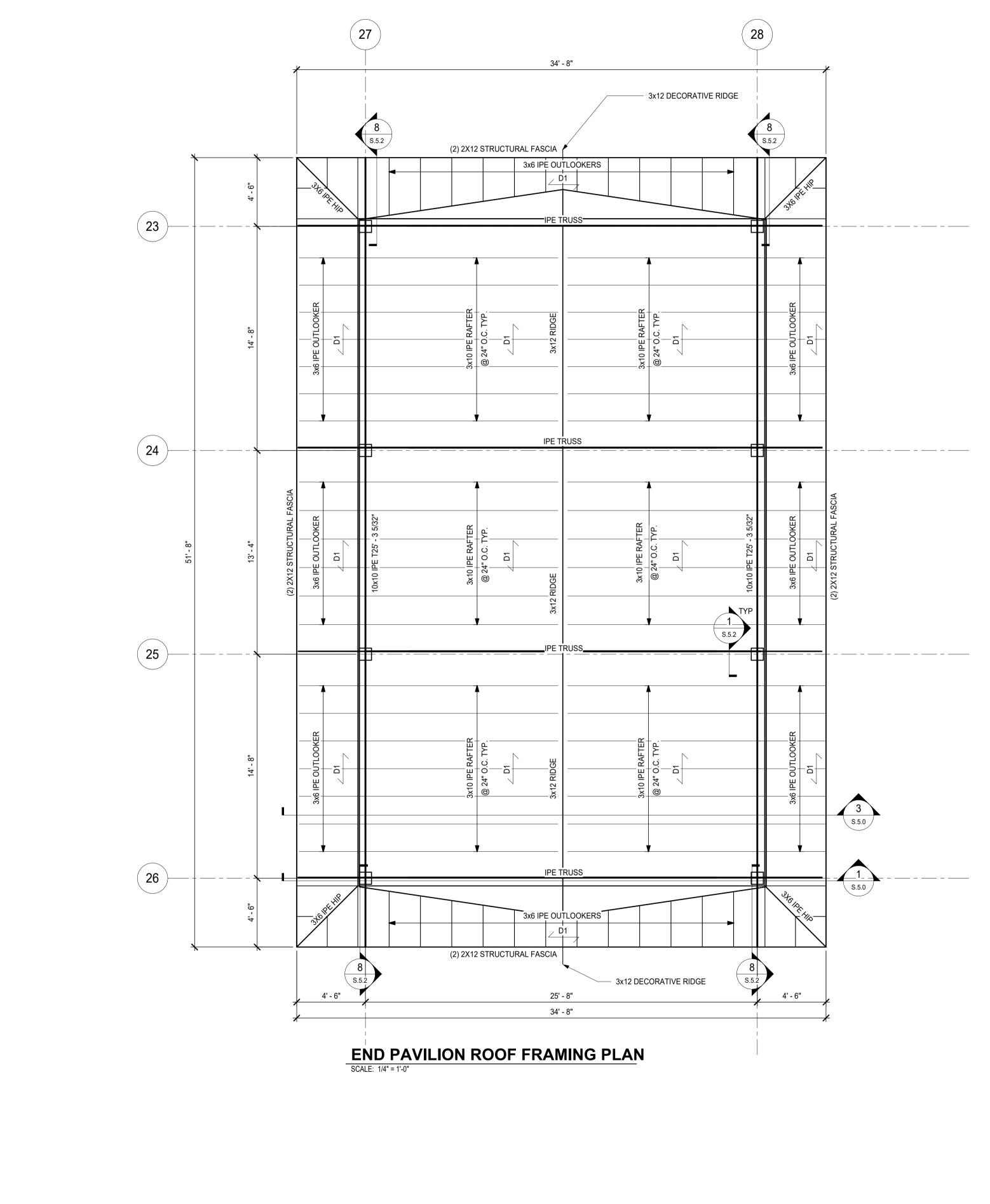


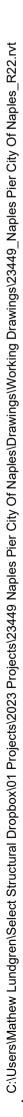
			CONCRE	TE BEAM SCHEDUL	.E		
				REINFORCE	MENT		
MARK	WIDTH	DEPTH	ТОР	MID	вот	STIRRUPS	COMMENTS
			T				
B1	8"	1'-0"	(2) #8		(4) #8	#3@4" OC	
B2	8"	1' - 4"	(2) #8	-	(4) #8	#3 @ 4" OC	-
B3	10"	2' - 11 1/2"	(2) #5	#4 SKIN REINF @ 12" 0C	(3) #5	#3 @ 12" OC	-
TBI	7 3/4	1-4	(2)#5	-	(2)#5	#3@48"OC	-

1. DO NOT SCALE DRAWINGS. VERIFY/COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF RECORD OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION. 2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES. 3. INDICATES 8" CMU WALLS W/ #5 VERTICALS AT 48" OC MAX, AND AT CORNERS, INTERSECTIONS AND BOTH SIDES OF OPENINGS, UNLESS NOTED OTHERWISE.

FOUNDATION PLAN NOTES:







ROOF FRAMING PLAN NOTES

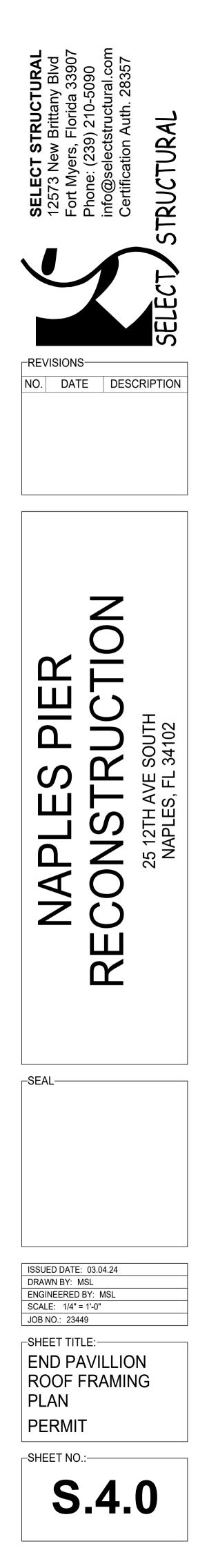
- 1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND ACCESS HATCH LOCATIONS.
- 2. COORDINATE LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS NOT SHOWN ON PLAN.

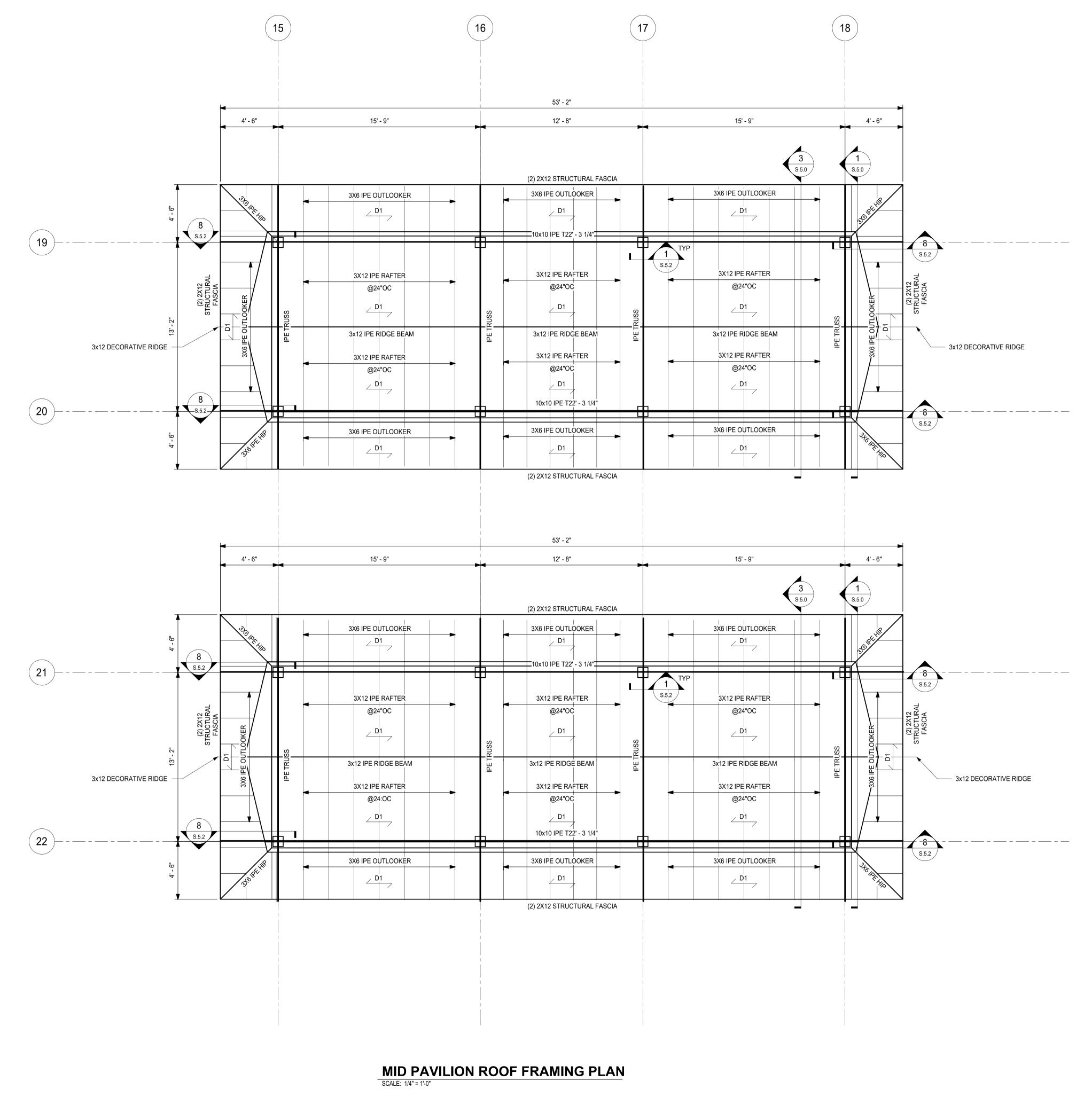
3. TX'-X" INDICATES TOP OF BEAM ELEVATION.

- 4. ______ INDICATES 1x6 T&G DECKING (SEE ARCH FOR REQUIREMENTS) AND 3/4" PLYWOOD SHEATHING W/ 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.
- 5. _ D2 INDICATES 3/4" PLYWOOD SHEATHING W/ 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

6. PROVIDE CONTINUOUS UNINTERRUPTED ROOF SHEATHING UNDER OVER-BUILDS.

7. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS FOR THE ROOF SYSTEM.









NO. DATE DESCRIPTION

ROOF FRAMING PLAN NOTES

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2. COORDINATE LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS NOT SHOWN ON PLAN.

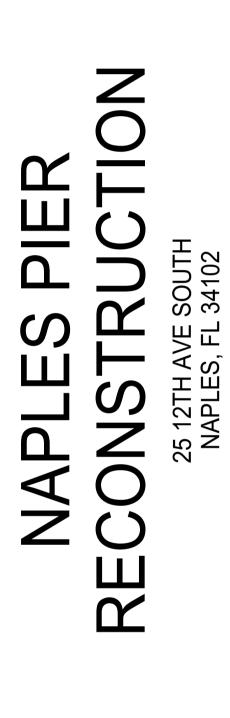
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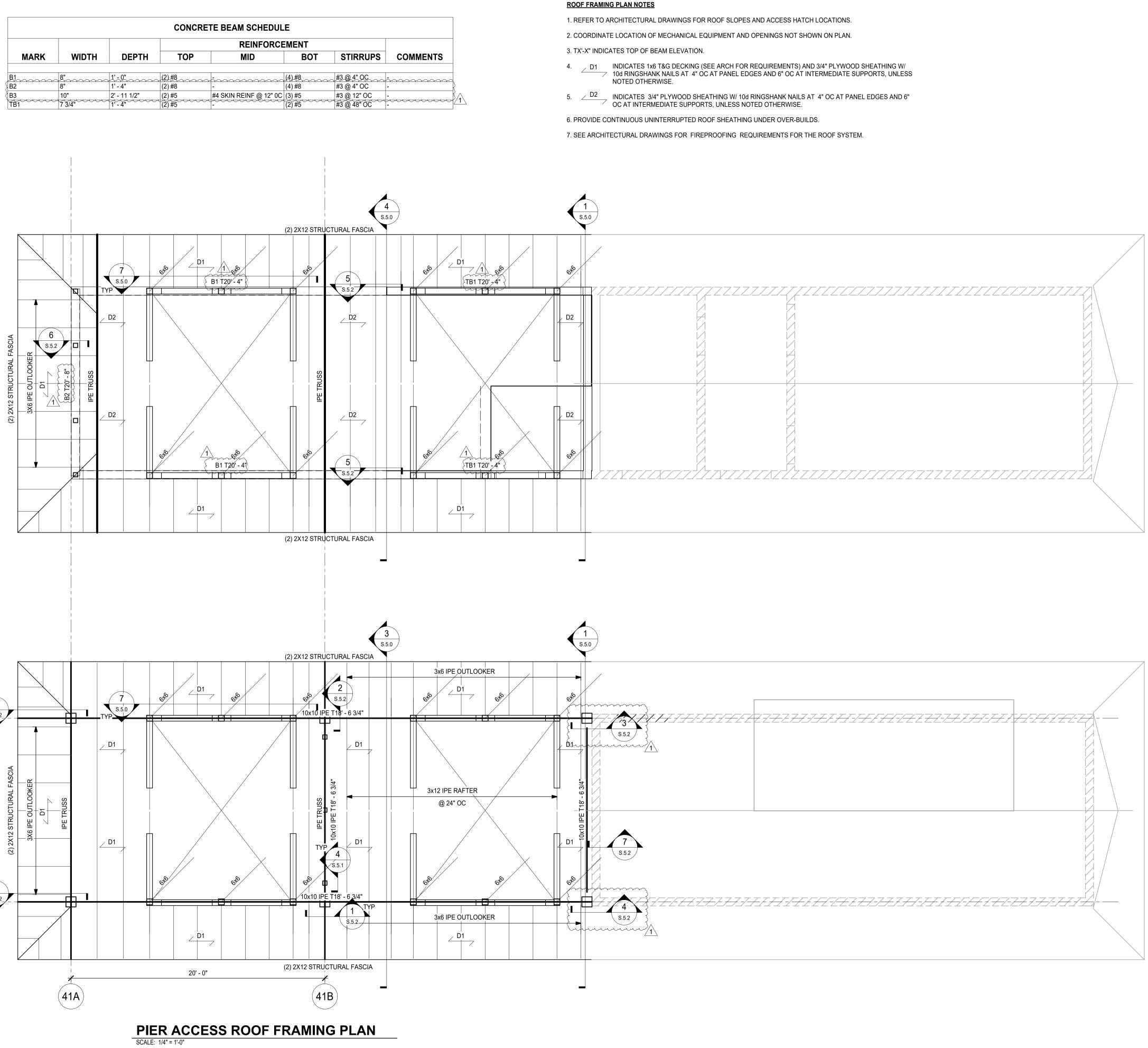


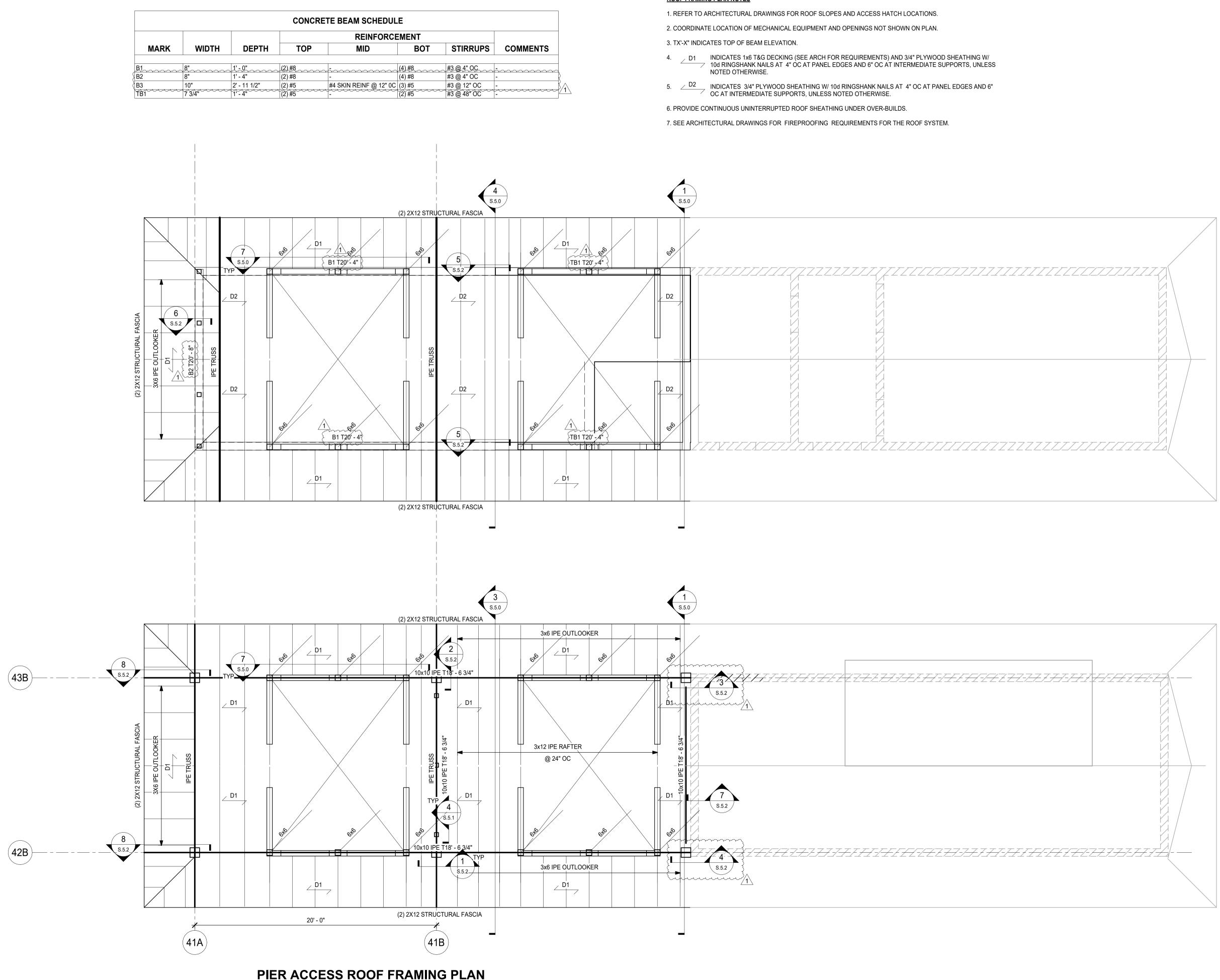
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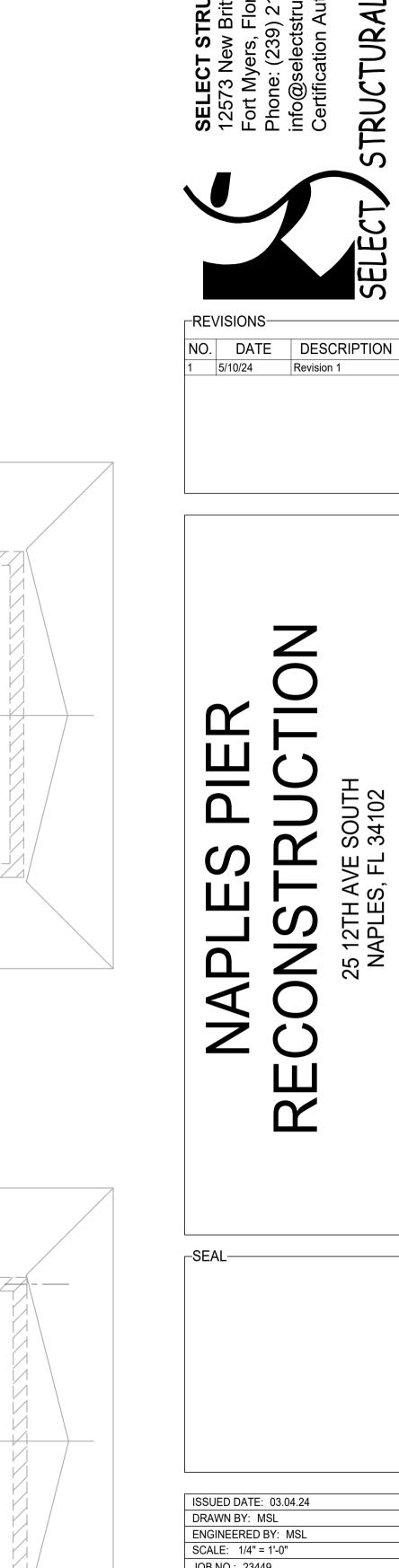
ISSUED DATE: 03.04.24
DRAWN BY: MSL
ENGINEERED BY: MSL
SCALE: 1/4" = 1'-0"
JOB NO.: 23449
SHEET TITLE:
MID PAVILION ROOF
MID PAVILION ROOF
MID PAVILION ROOF
MID PAVILION ROOF FRAMING PLAN
MID PAVILION ROOF
MID PAVILION ROOF FRAMING PLAN PERMIT
MID PAVILION ROOF FRAMING PLAN



MARK	WIDTH	DEPTH
B1		1'-0"
B2	8"	1' - 4"







⁻lorida 3; 210-509

JOB NO.: 23449 SHEET TITLE:-

PIER ACCESS LOW ROOF FRAMING PLAN PERMIT

-SHEET NO.:-







ROOF FRAMING PLAN NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND ACCESS HATCH LOCATIONS. 2. COORDINATE LOCATION OF MECHANICAL EQUIPMENT AND OPENINGS NOT SHOWN ON PLAN. 3. TX'-X" INDICATES TOP OF BEAM ELEVATION.

- 4. _ D1 INDICATES 1x6 T&G DECKING (SEE ARCH FOR REQUIREMENTS) AND 3/4" PLYWOOD SHEATHING W/ 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.
- 5. ______ INDICATES 3/4" PLYWOOD SHEATHING W/ 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.
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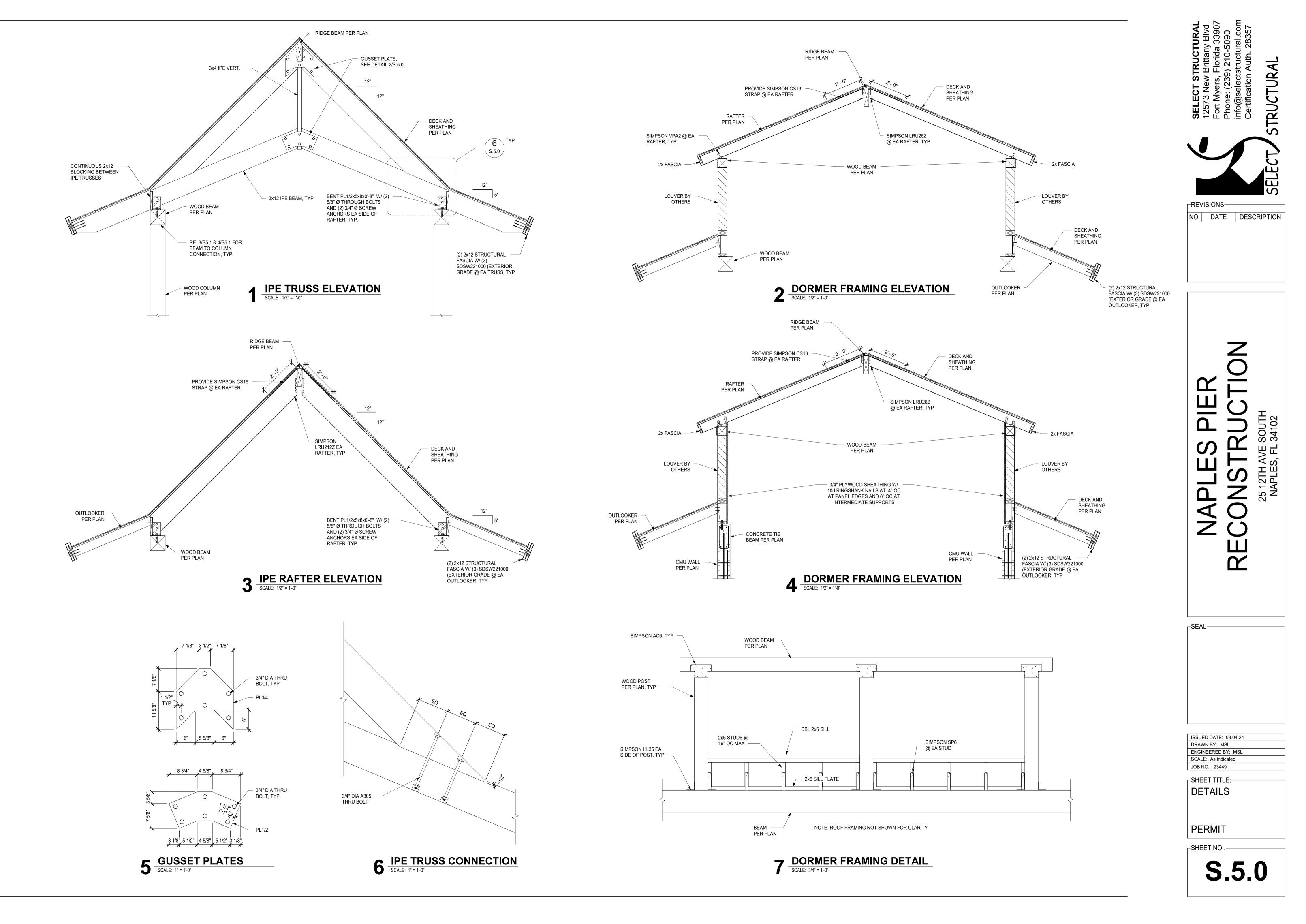
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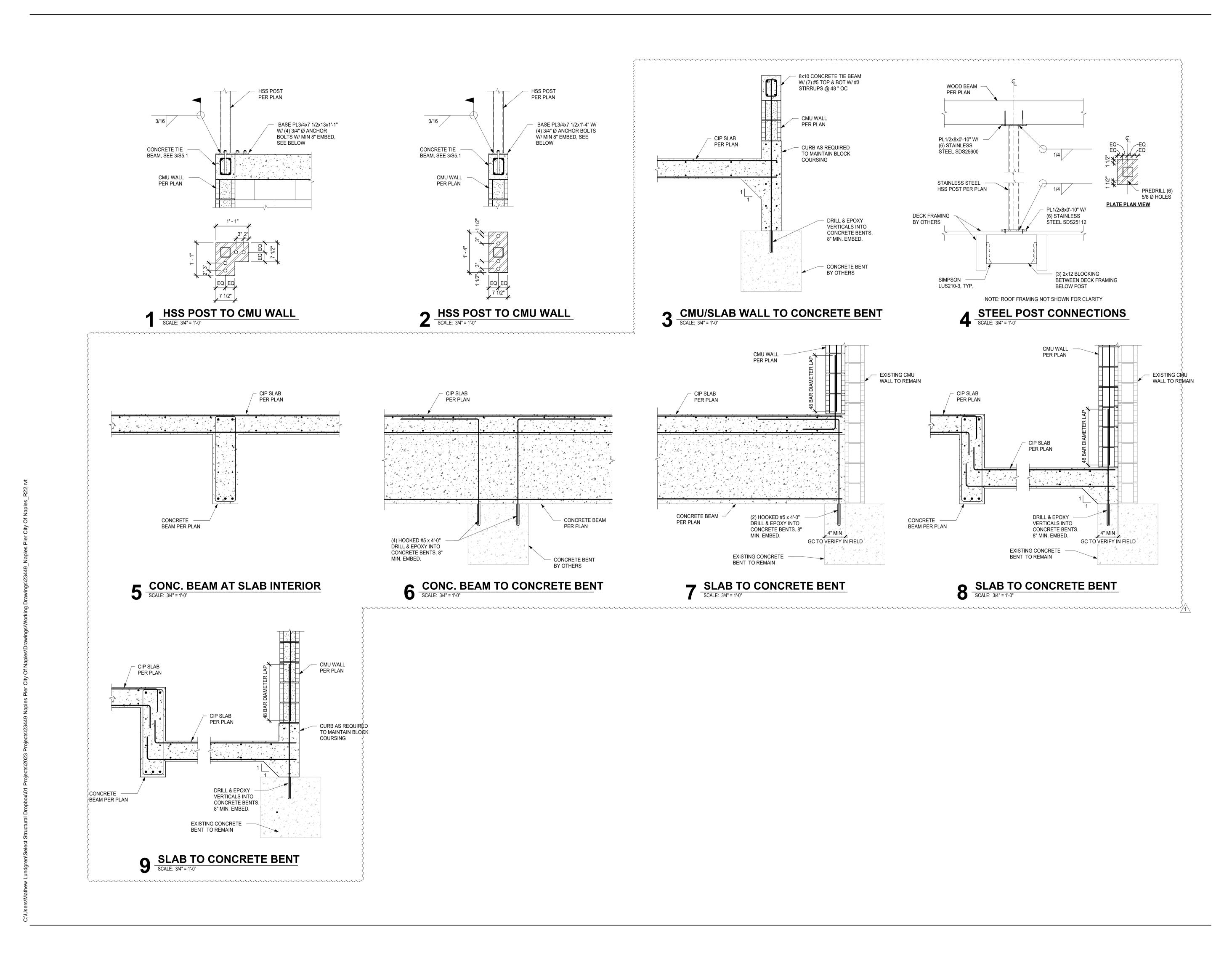
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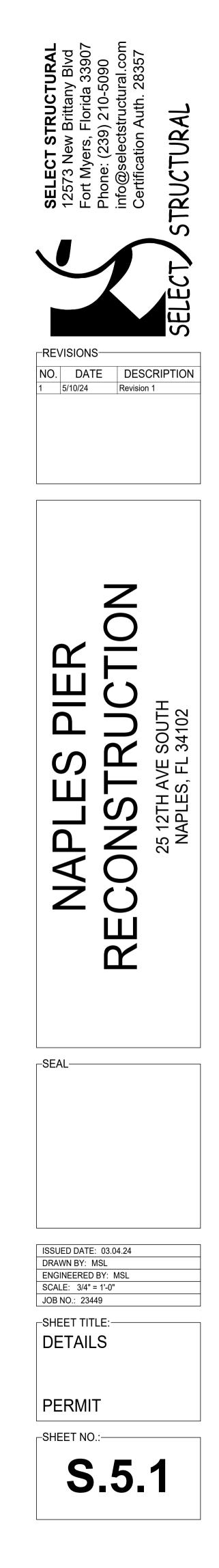
ROOF FRAMING PLAN PERMIT

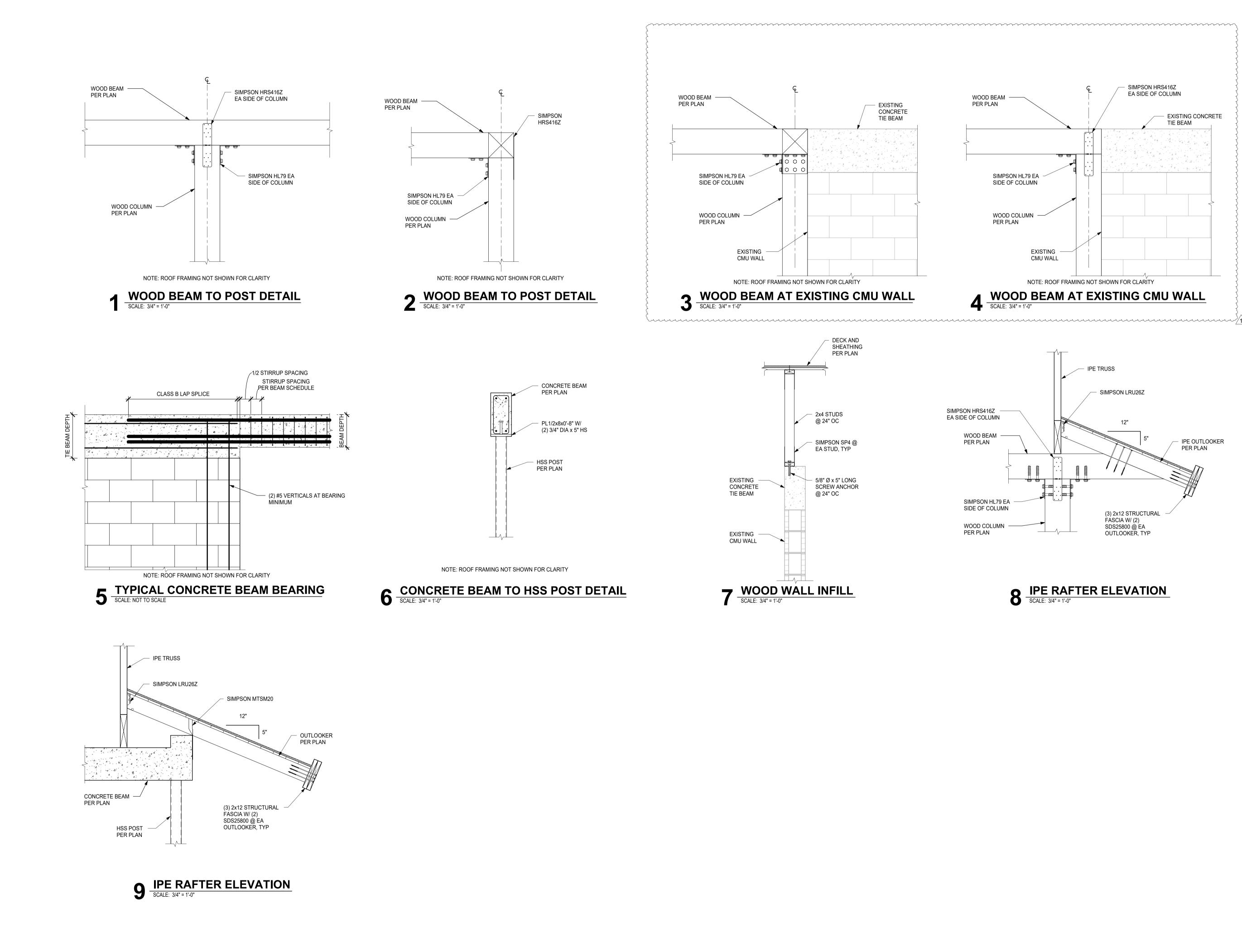
SHEET NO.:-

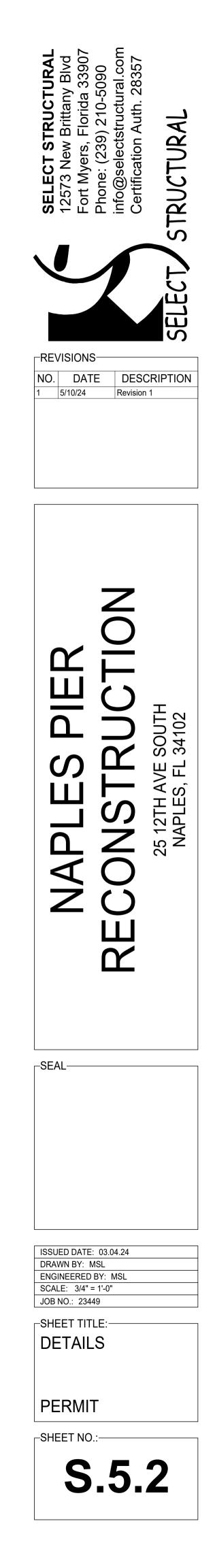












ATTACHMENT B - REVISED SCHEDULE OF VALUES

SCHEDULE OF VALUES ITB 24-011 Naples Pier Reconstruction - ITB TH #: 1550.06

BIDDER: ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL COST
1	Mobilization/Demobilization	LS	1		
2	Surveys	LS	1		
3	Demolition and upland disposal	LS	1		
4	Artificial Reef Disposal	PT,PM*	32,000		
5	Artificial Reef Debris Prep	HR*	300		
6	Concrete Test Piles (10)	LF	1,000		
7	Concrete Production Piles	LF	15,500		
8	Sacrificial Lateral Load Test Piles (2)	LF	200		
9	Cast in Place Concrete Substructure	CY	602		
10	Framing and Attachments - Main Deck	SF	19469		
11	Framing and Attachments - Raised Observation Deck	SF	1188		
12	Underwater Camera Box	LS	1		
13	Decking	SF	19372		
14	Standard Rail	LF	1255		
15	ADA Rail	LF	482		
16	Guard Rail	LF	866		
17	Guard Rail with Grab Bar	LF	85		
18	End Pavilion Roof	SF	1792		
19	Mid Pavilion Roofs	SF	2357		
20	Concession Building, Storage	LS	1		
21	Concession Area Roof Additions	SF	2096		
22	Restroom Renovations and Existing Roof Renovations	LS	1		
23	Food Service	LS	1		
24	Showers and Dining Area	LS	1		

ATTACHMENT B - REVISED SCHEDULE OF VALUES

26 27	Relocate Camera Pole Beach Access Ramp	LS SF	1 219		
28	Gates	LS	1		
29	IPE Benches	EA	87		
30	Fish Cleaning Stations	EA	2		
31	Electrical Infrastructure and Receptacles	LS	1		
32	Rail Mounted Lights	EA	318		
33	Pavillion Roof Lighting	LS	60		
34	Fire Protection System	LS	1		
35	Potable Water	LS	1		
				TOTAL COST	
WRITTEN C	OST \$				
NOTES: quantities ar ROCK PUN(e estimated. Actual quantites will be determined du CHING/ DRILLING SHOULD BE REQUIRED PERM MENT. ROCK IS DEFINED AS UNDISTURBED CA	AITTEE OF P ROCK.			*These IF ANY O PRIOR TO
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