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NOTES:

THESE DRAWINGS ARE INTENDED FOR CONSTRUCTION USE.

SITE ADDRESS:

<> 25 12TH AVE S NAPLES, FL 34102

<> LATITUDE: N 26.131543 <> LONGITUDE: W 81.807529

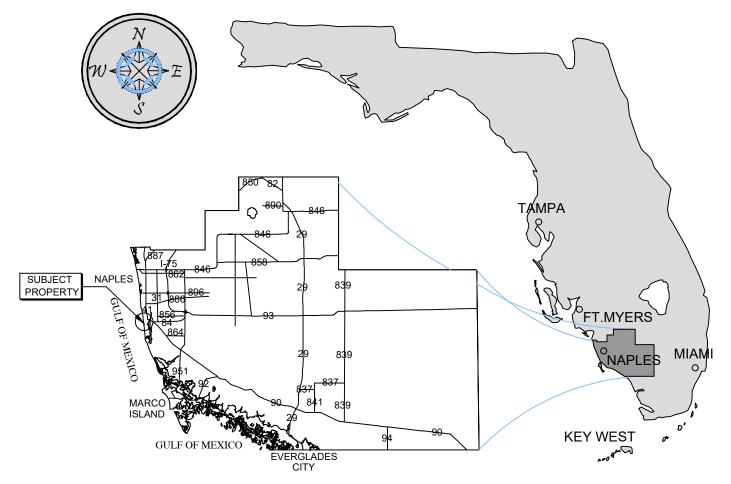
TODD T. TURRELL REGISTERED PROFESSIONAL ENGINEER

LICENSE NO. 39659

DATE: January 18, 2024

TODD T. TURRELL STATE OF FLORIDA, PROFESSIONAL ENGINEER, 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

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COLLIER COUNTY



COUNTY AERIAL

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DETAILS

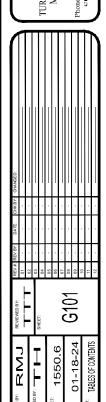
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TECHNICAL SPECIFICATIONS

- 1. Design Criteria
 - a. Governing Code(s): 2020 Florida Building Code

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 Fast Zone
 - 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

- 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 are
- 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 $12^{\mbox{th}}$ 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
- i. The beach access and parking area located at 17^{th} 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
- 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.
- iii. All structures waterward of the restroom buildings are to be removed.

- 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:
 - 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
- 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.
- 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

- 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
- 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.

NAPLES PIER SPECIFICATIONS 1

Marine & Environmental Consulting 3584 Exchange Ave. Suite B. Nuples, E. 3410-4732.2 cm 1: 10.00 (2.29) 643-662 cmail: tune@@thangeless.com

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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

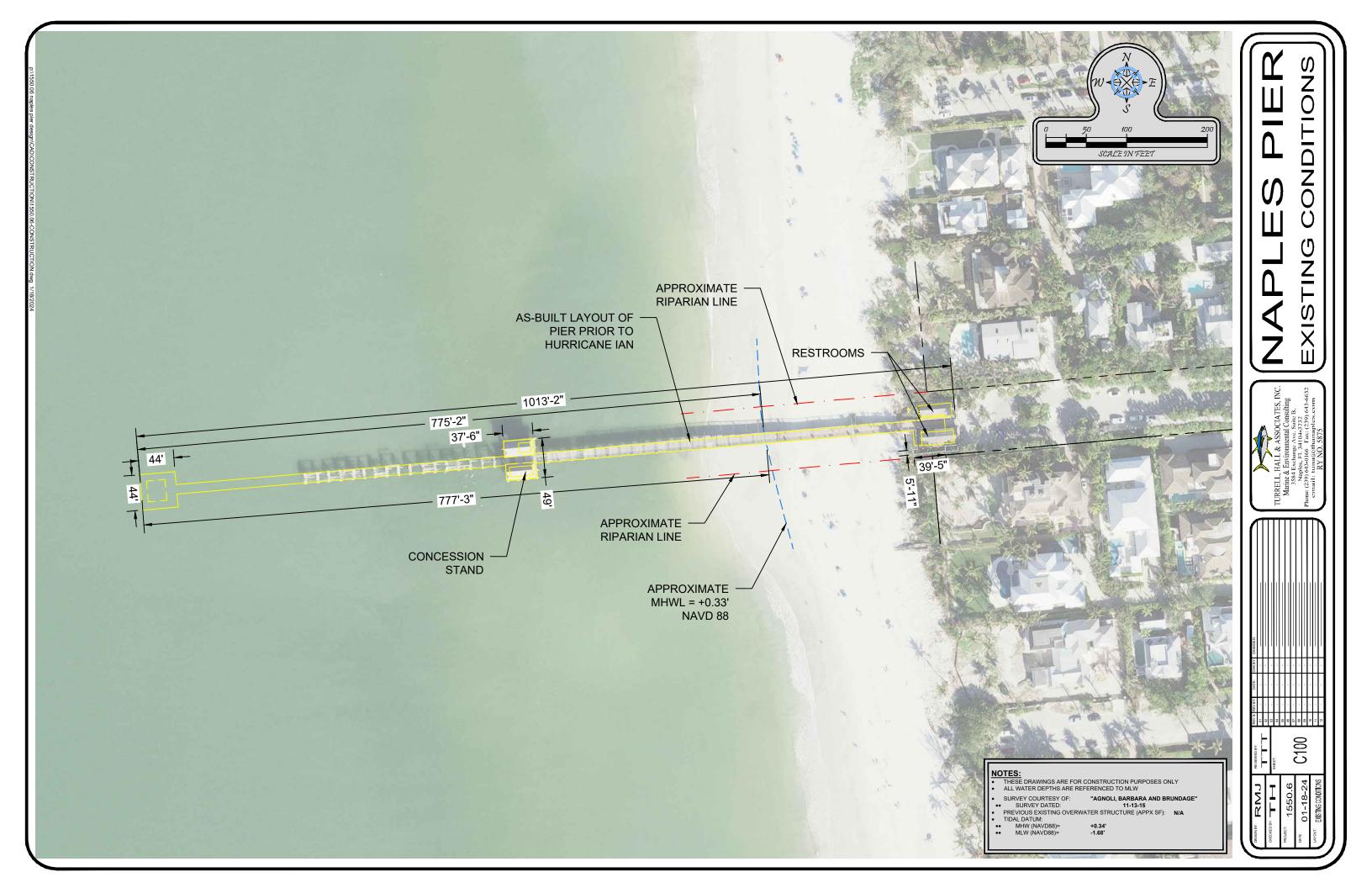
- a. Installation:
- i. The plumbing equipment and installation shall be per the Florida plumbing code latest edition with local amendments.
- ii. All plumbing shall be pressure tested prior to connecting to existing utilities. Test results shall be signed by the licensed plumber and provided to the 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
- 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:
- 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.

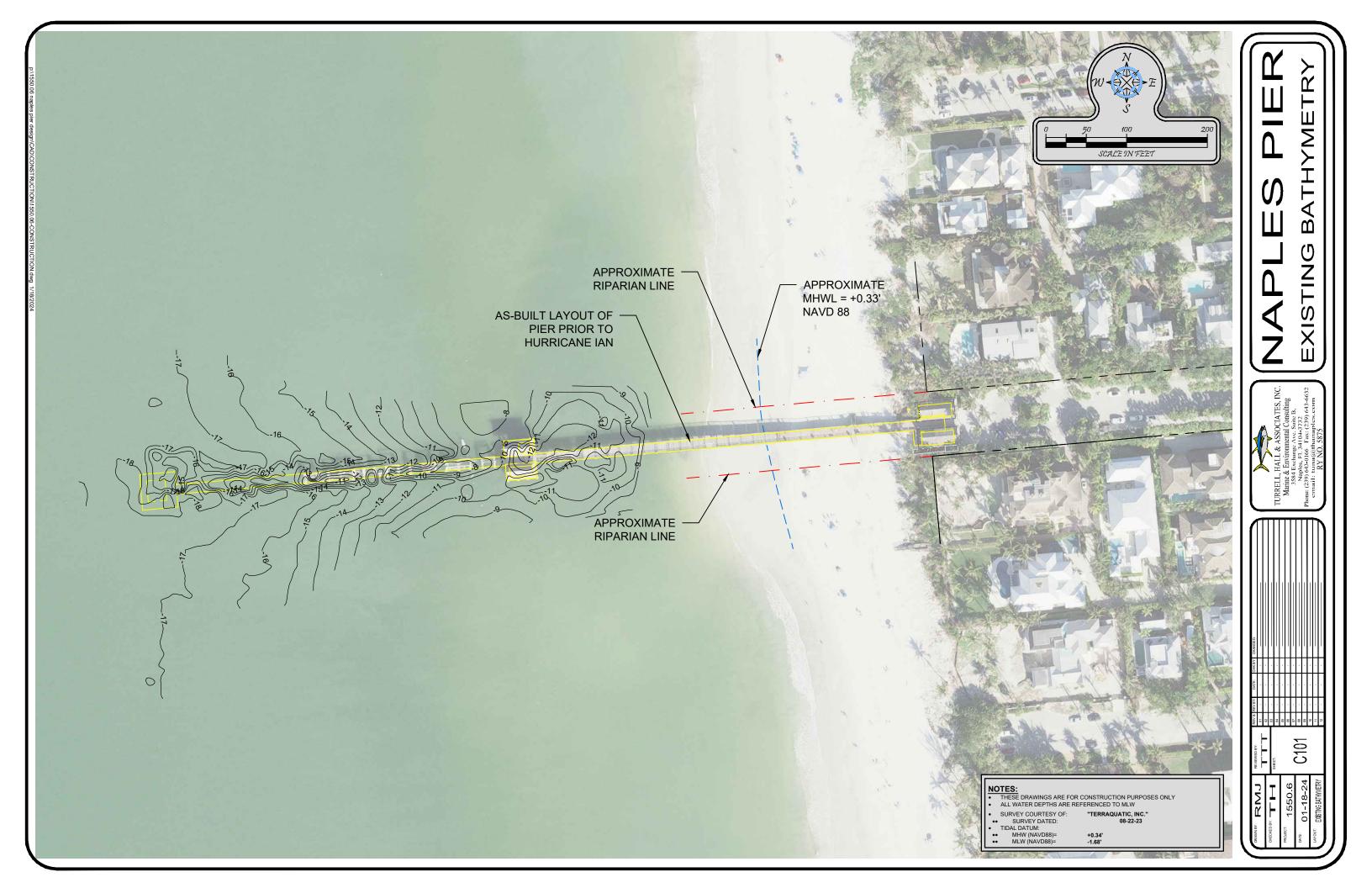
12. Fire

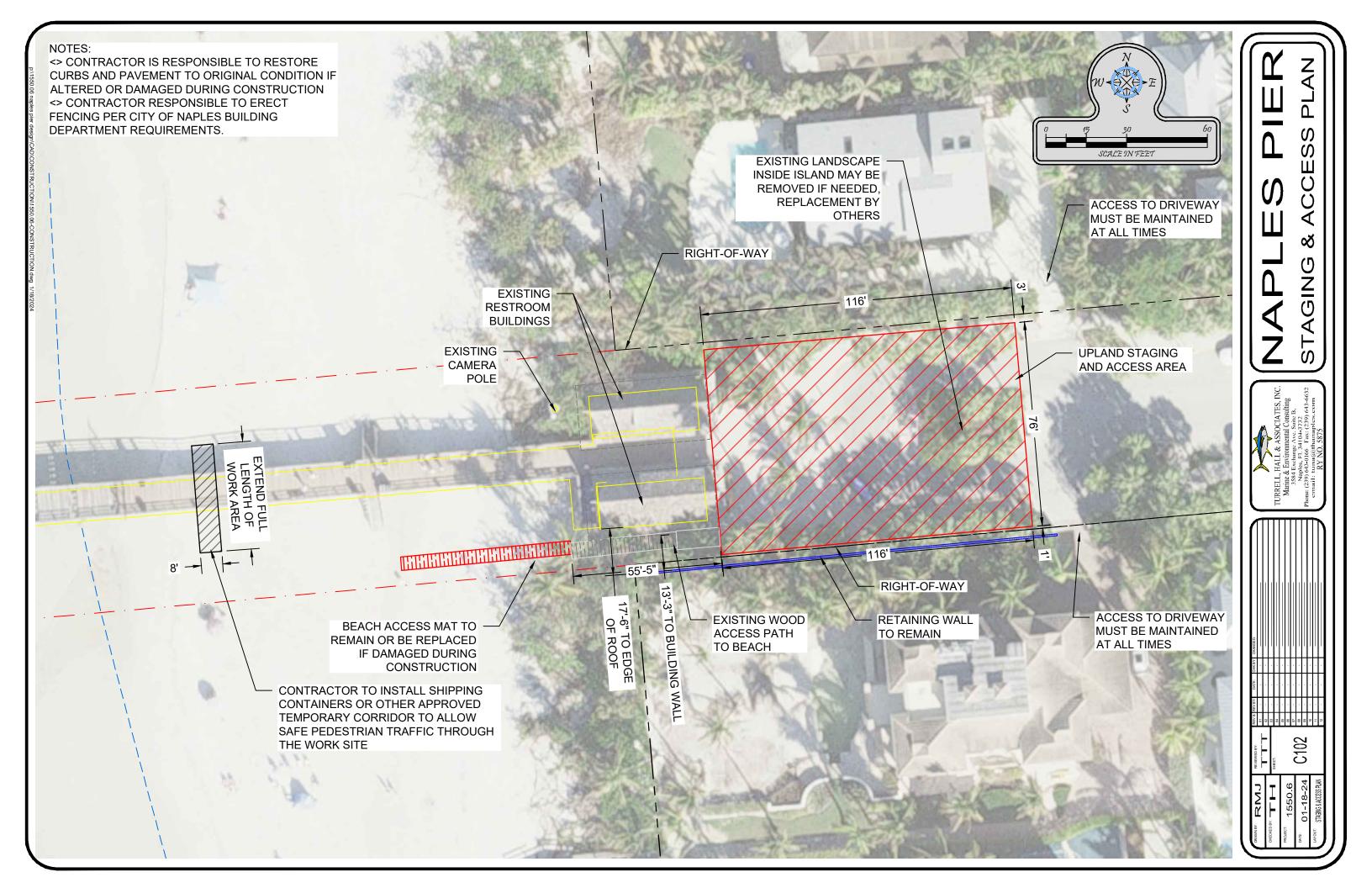
- a. Installation:
- Installation of al piping shall be per the latest edition accepted by the local AHJ of the Florida Building Code - Plumbing edition, NFPA 303, and NFPA 14
- b. Pipe Type: All piping shall be 316 stainless steel, and all fittings shall be clamped.
- i. All piping shall be tested to 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.





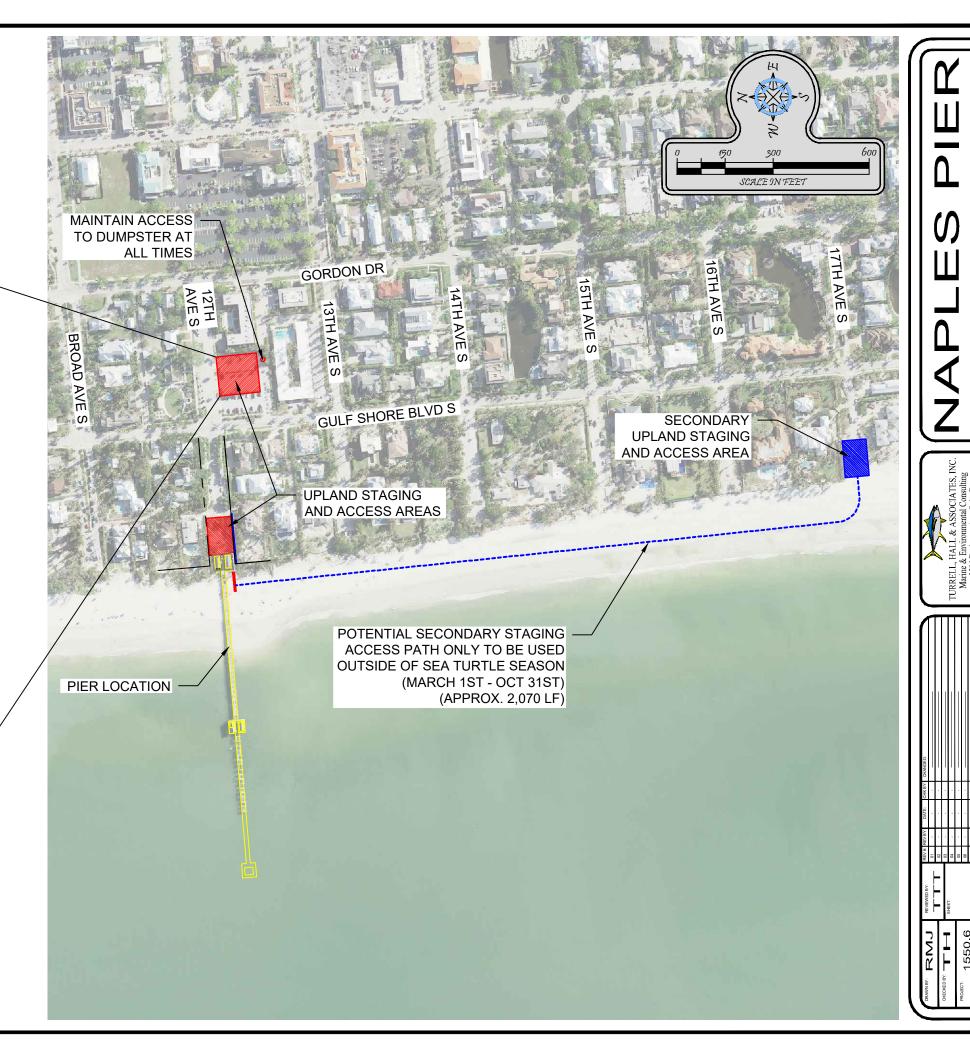






STAGING AREA AT 12TH AVE AND GULF SHORE BLVD S

SCALE: 1" = 60'

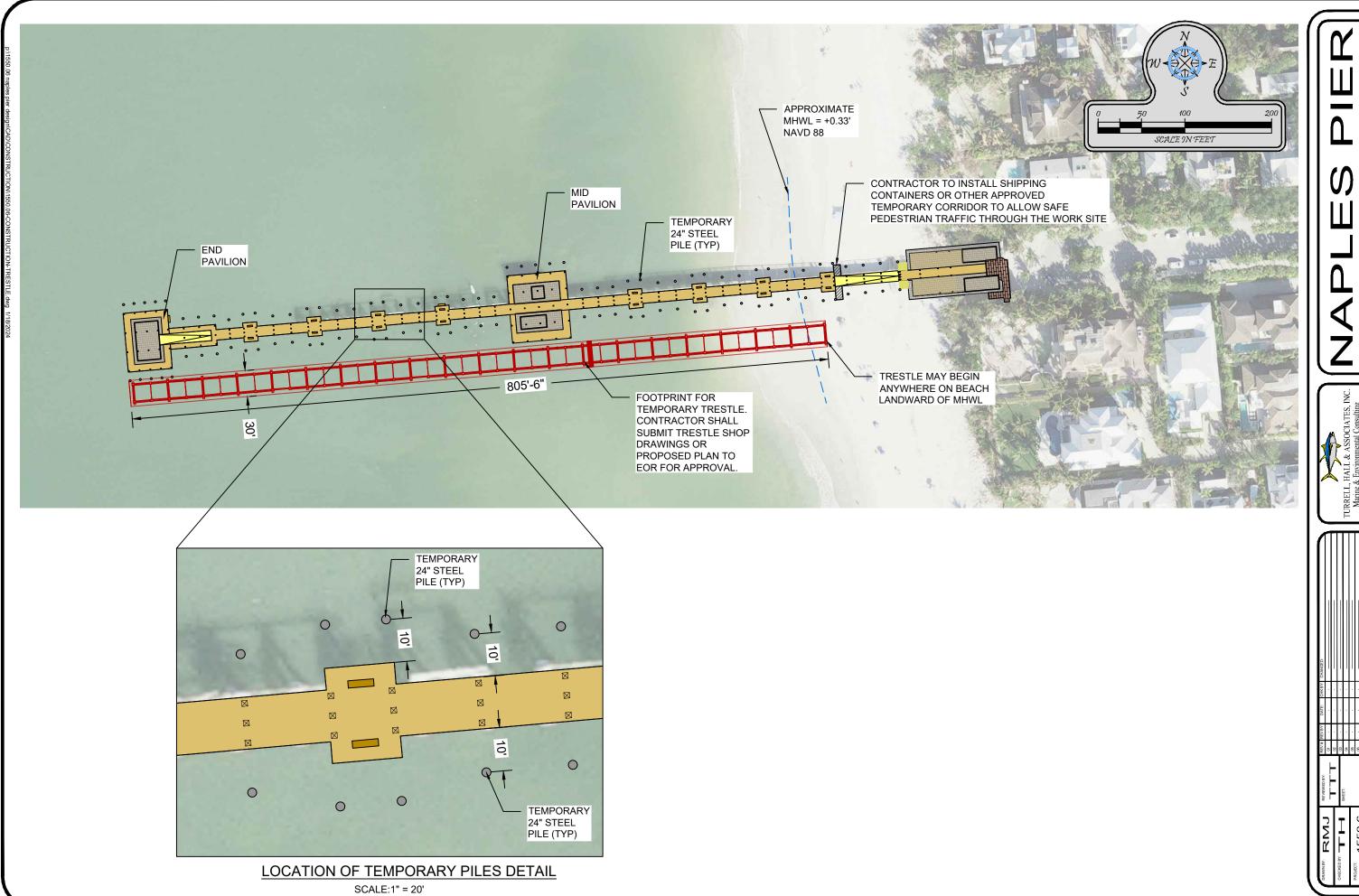


STAGING

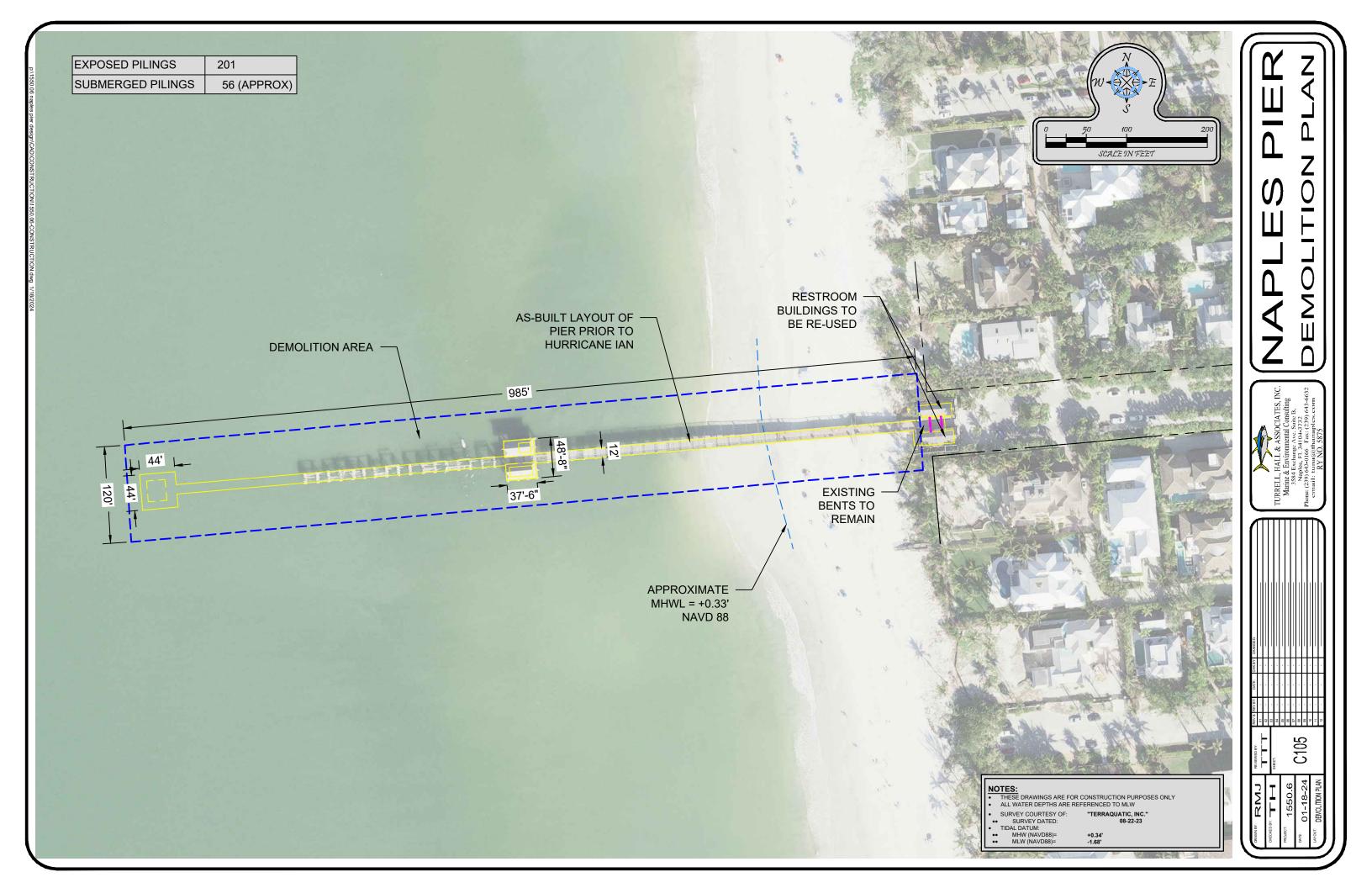
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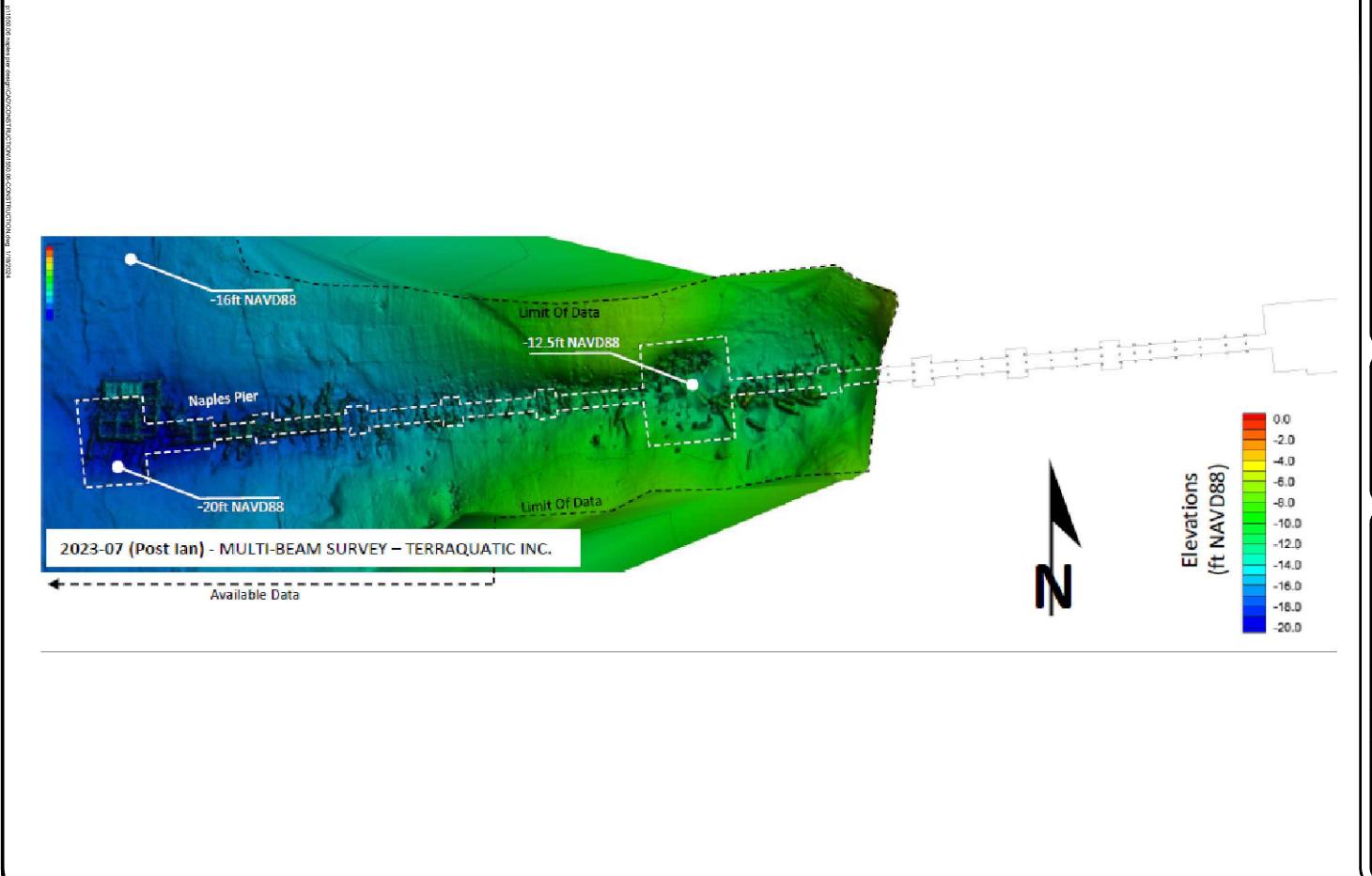
ACCESS

ADDITIONAL



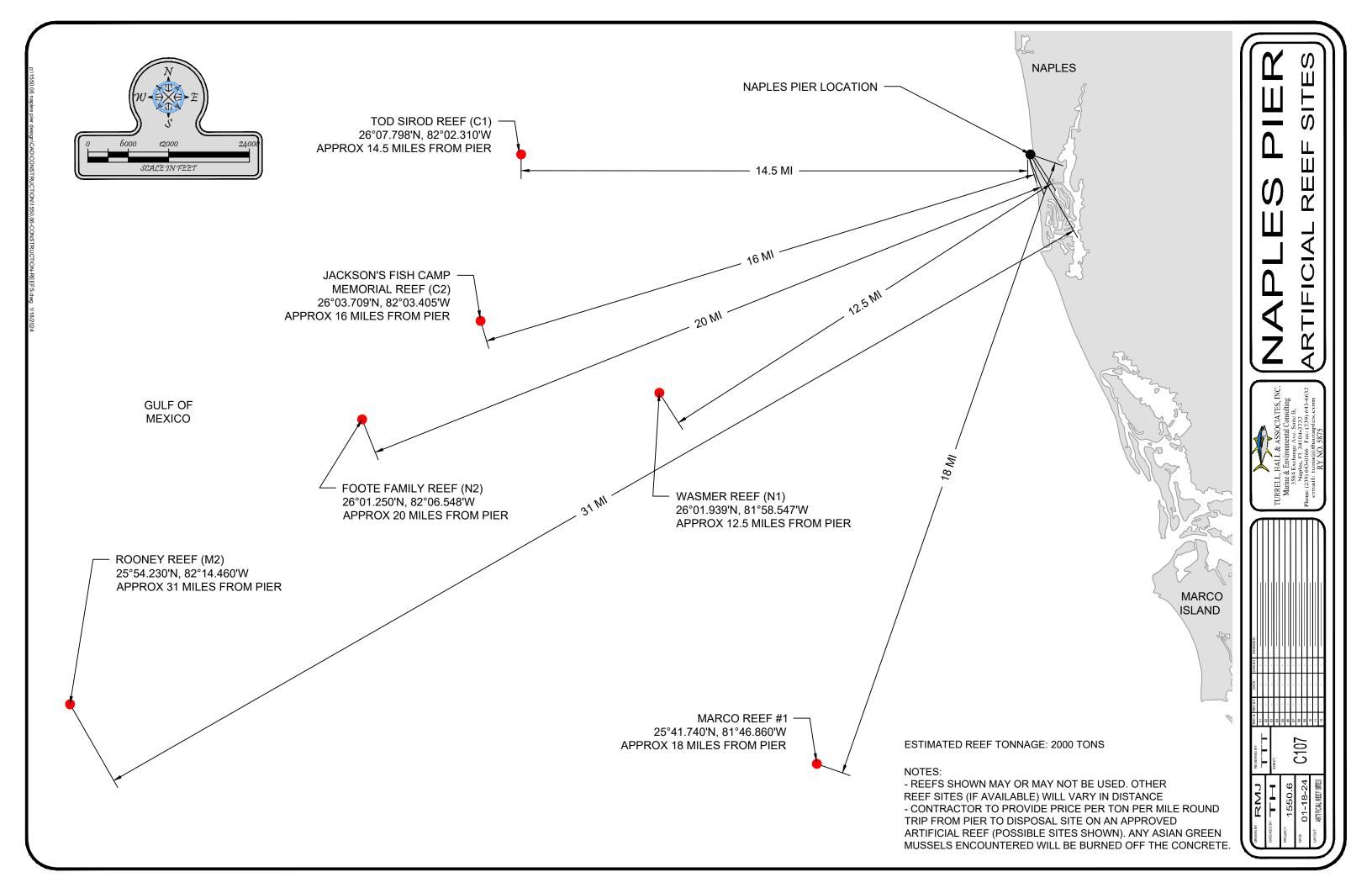
TEMPORARY WORK PERMITTED

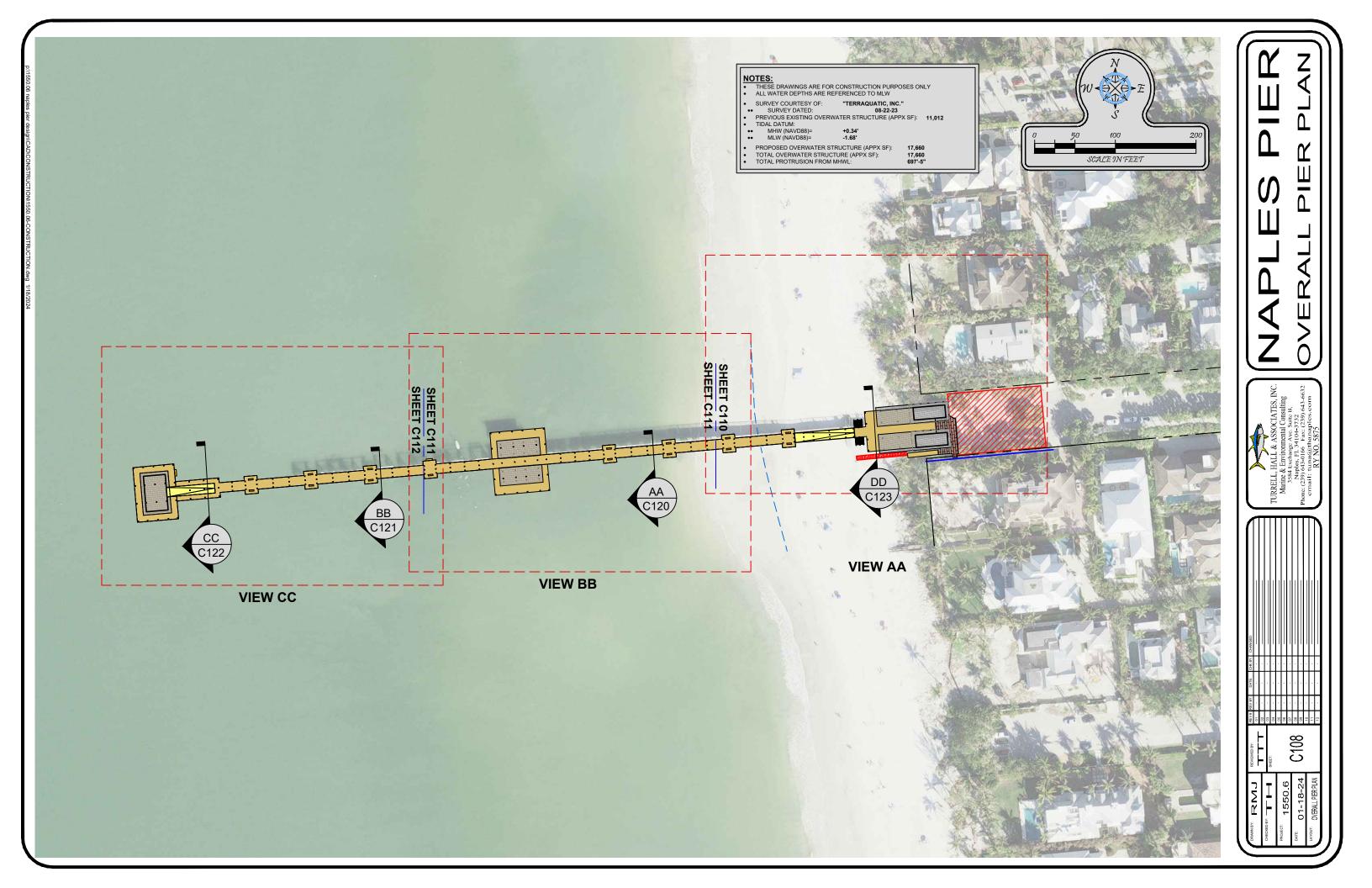


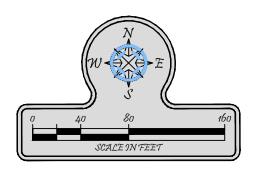


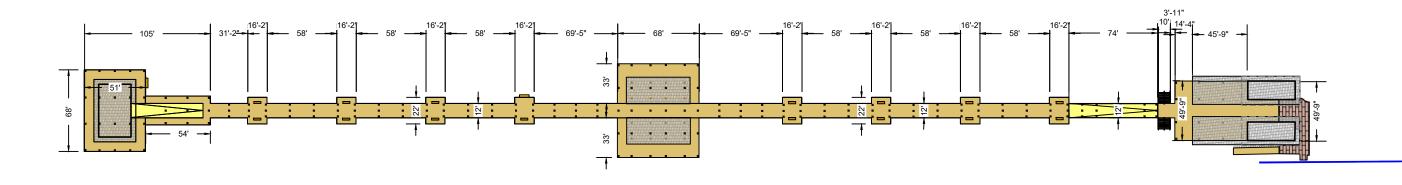
NAPLES PIER

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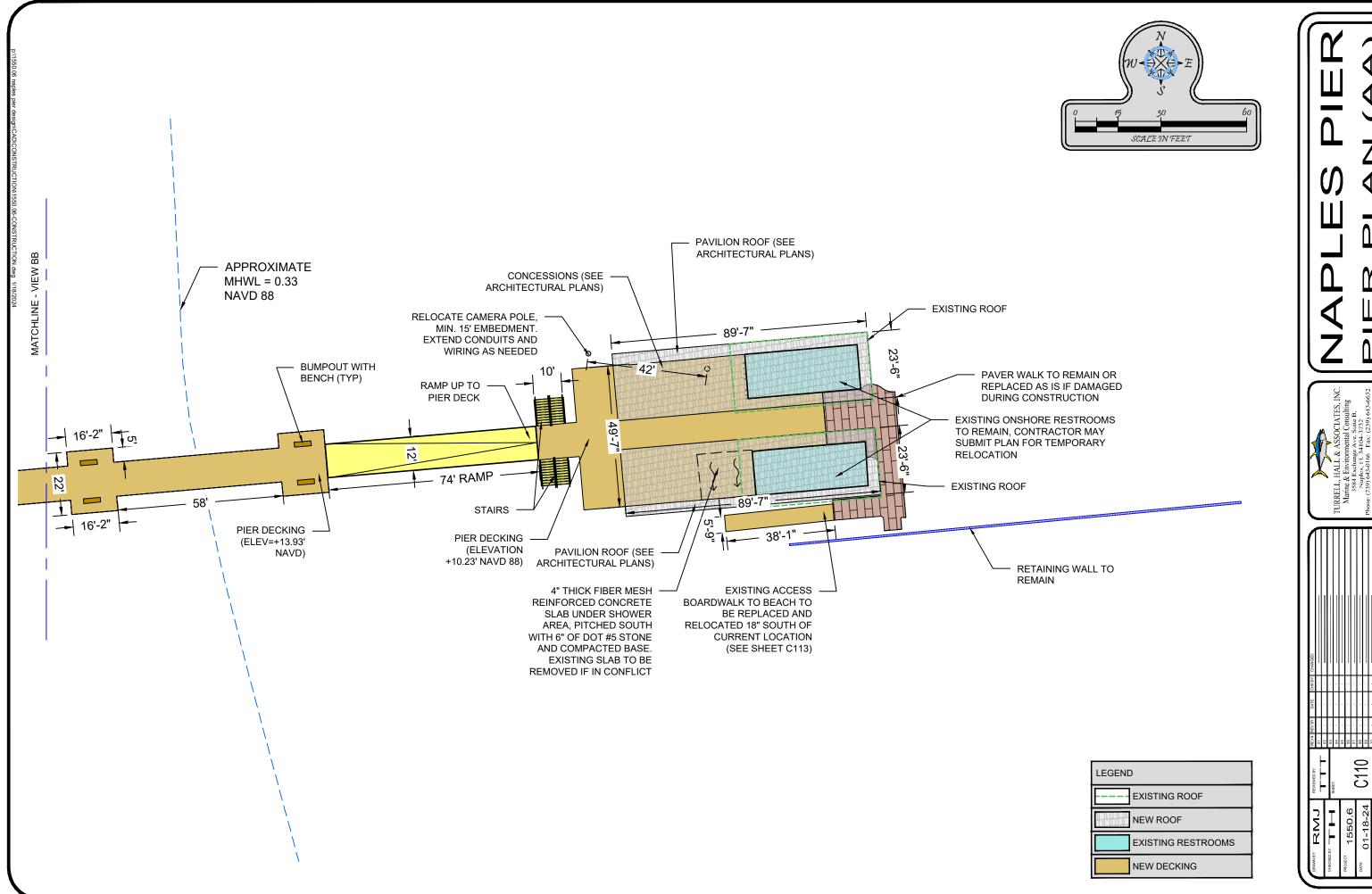


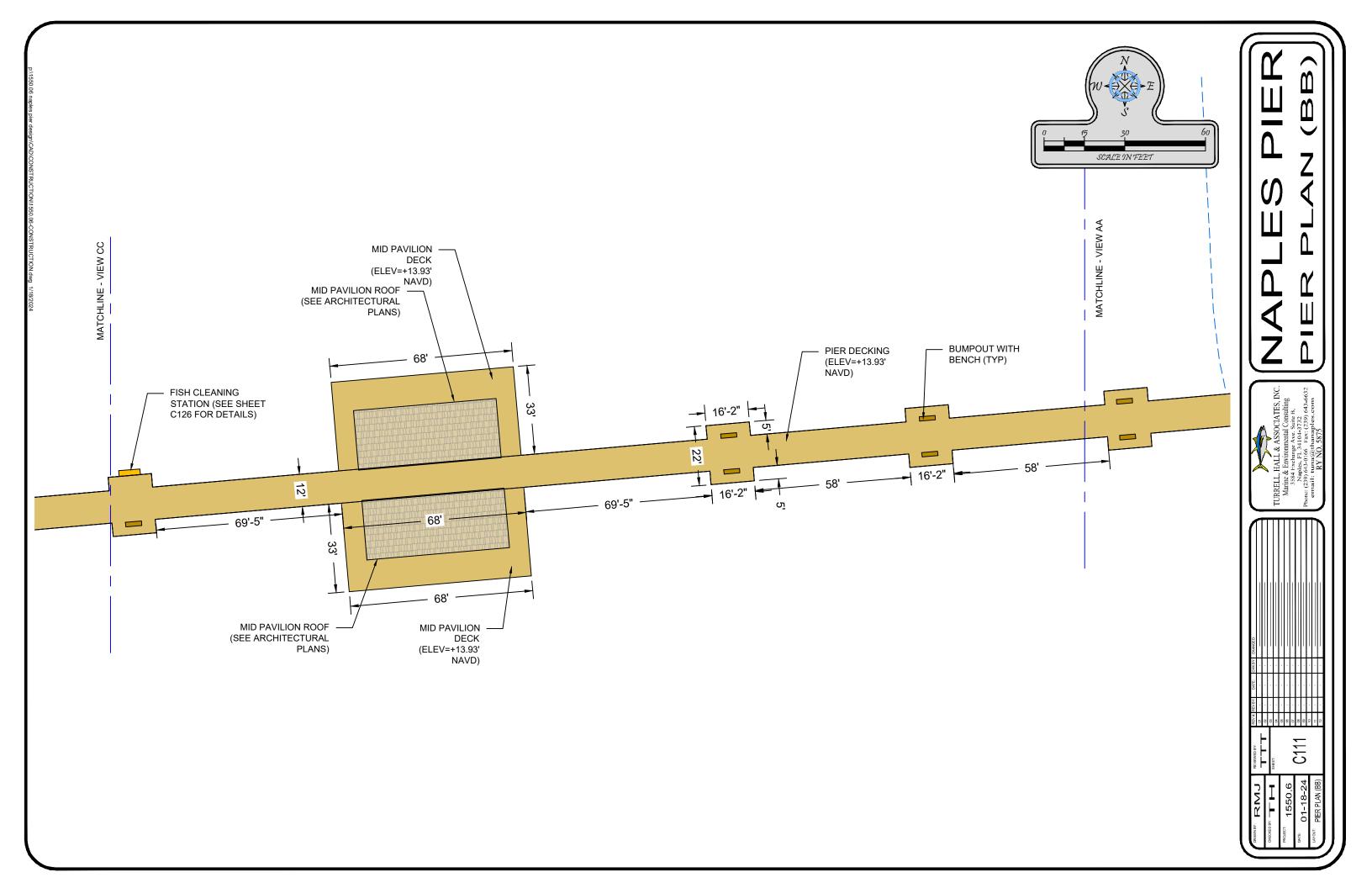


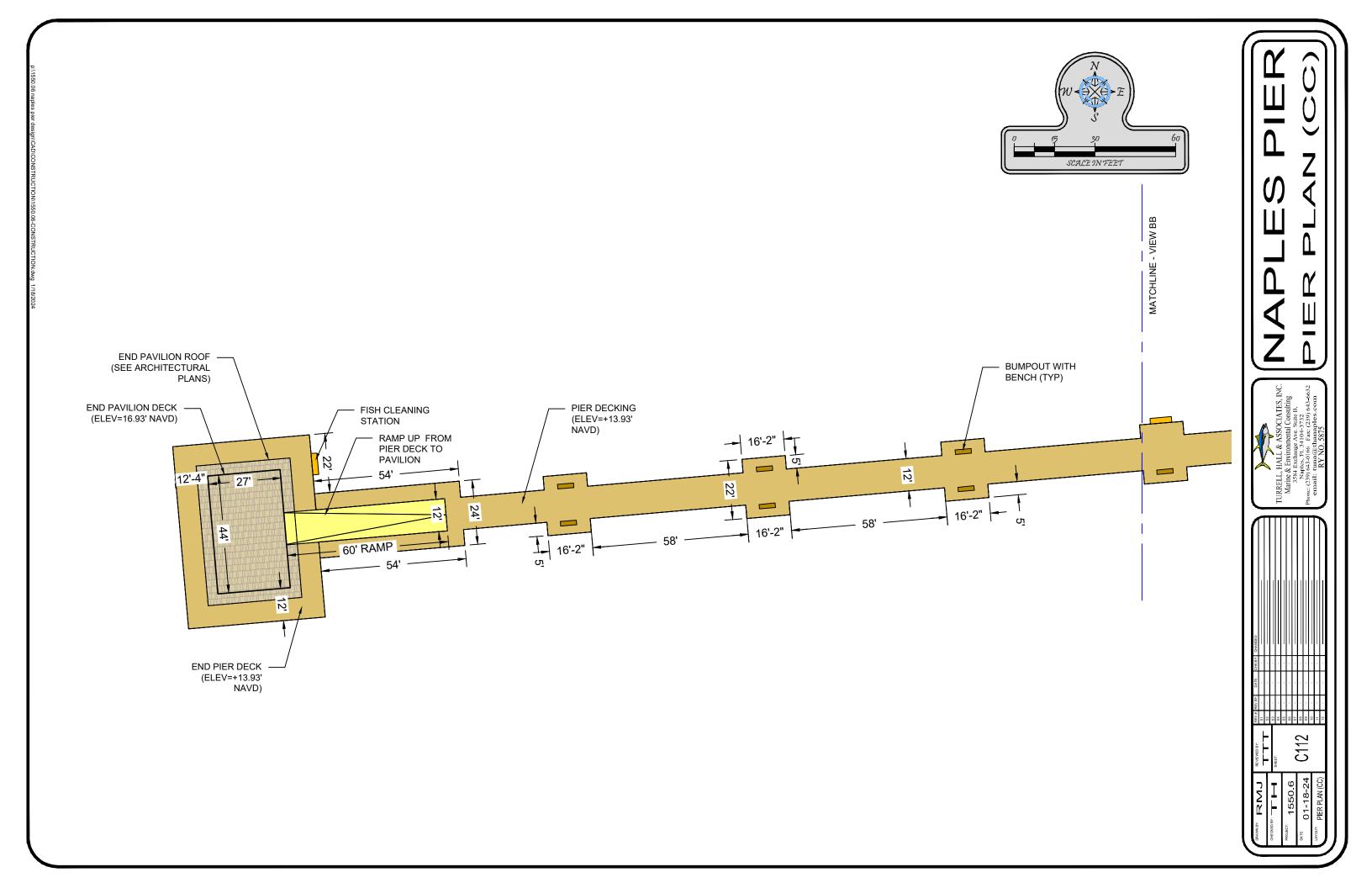


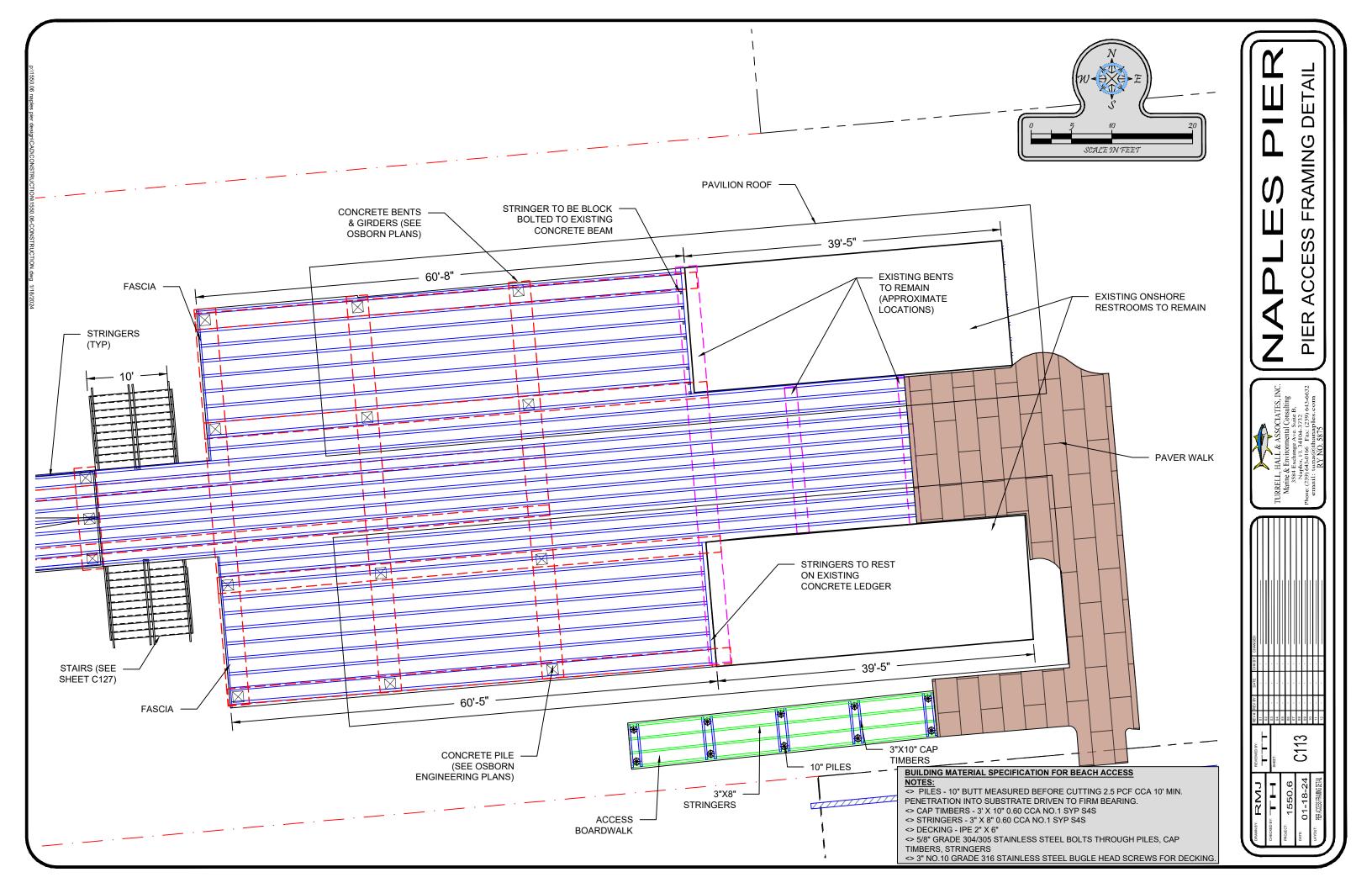
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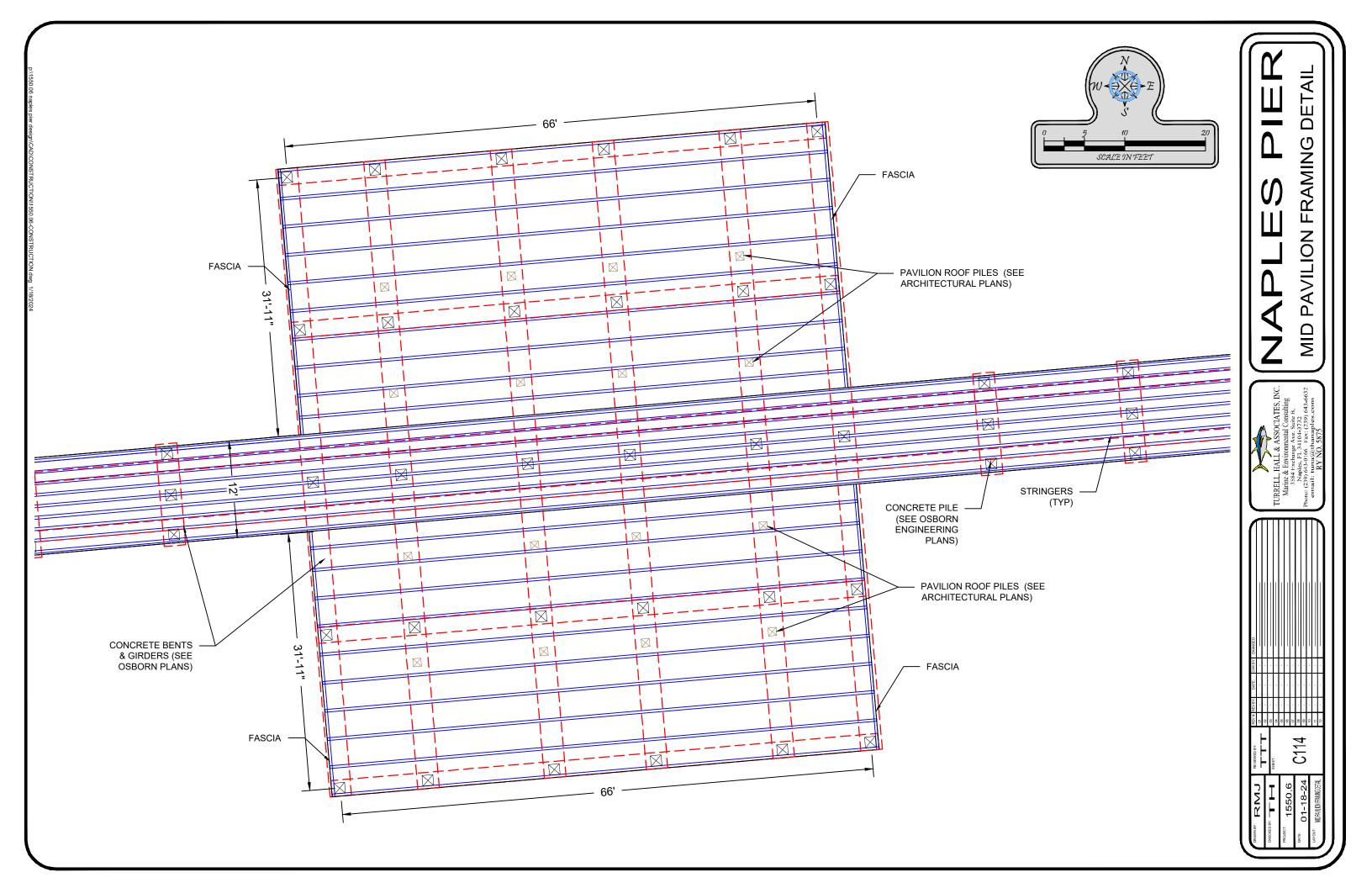
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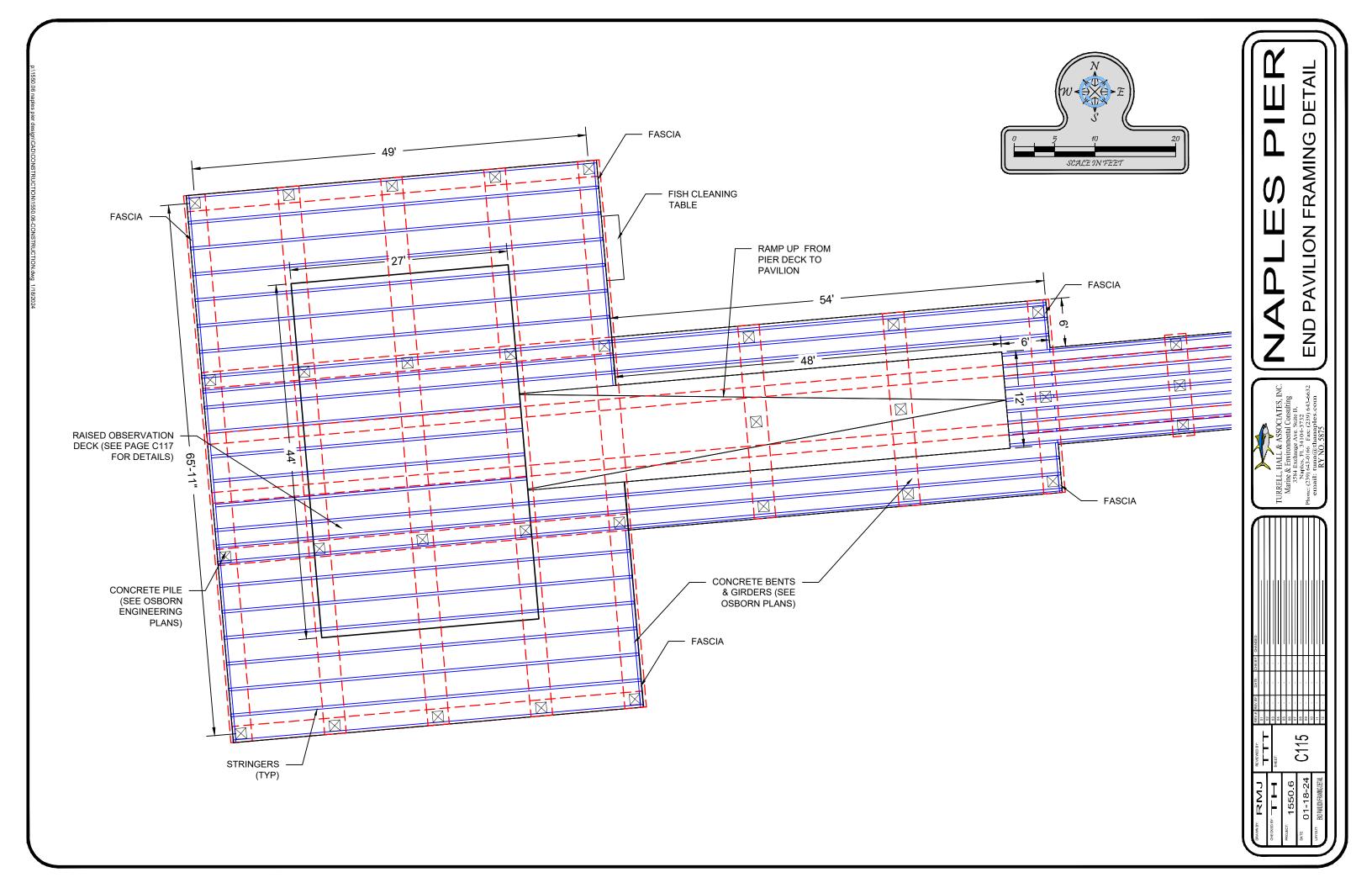


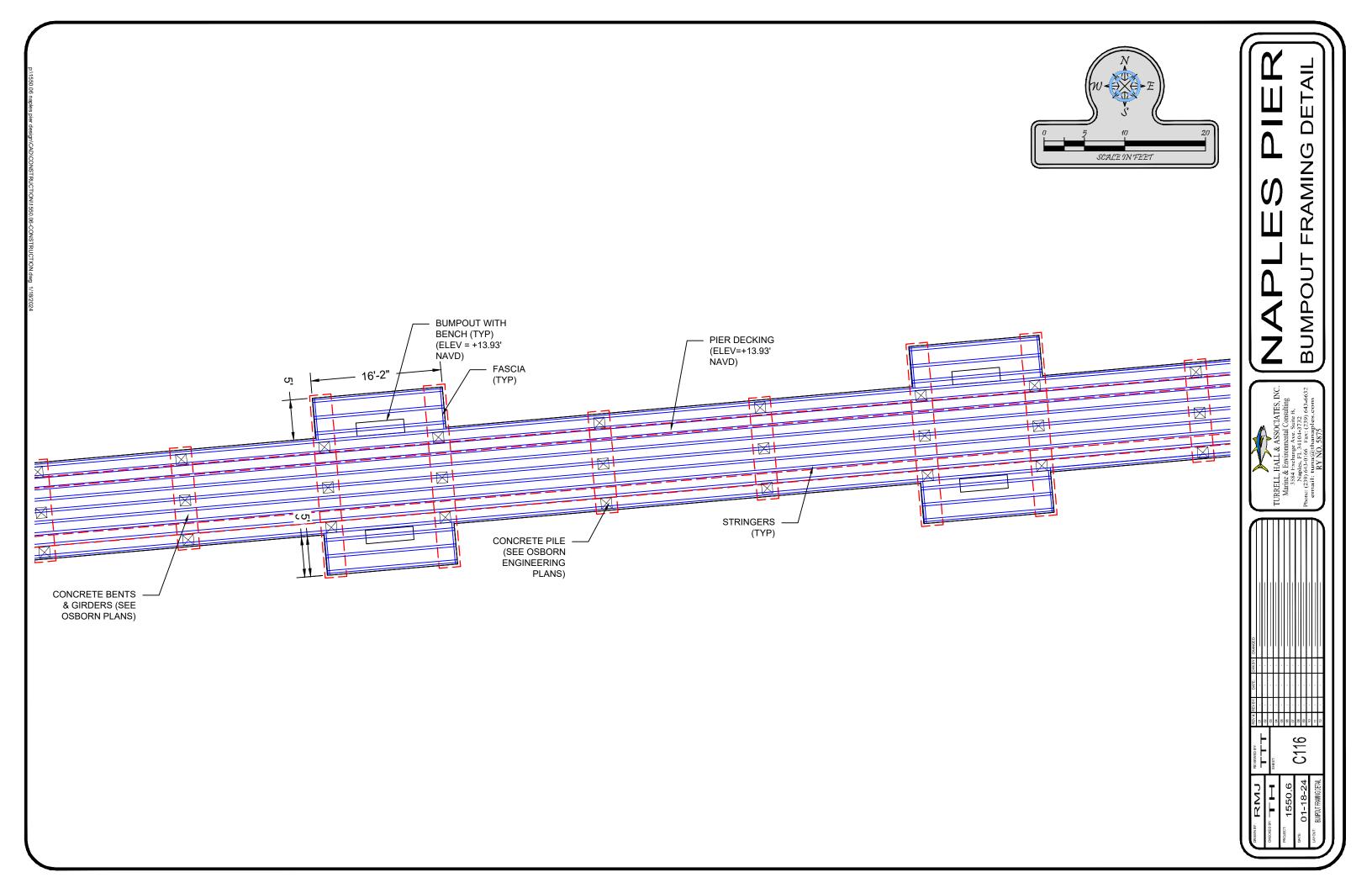


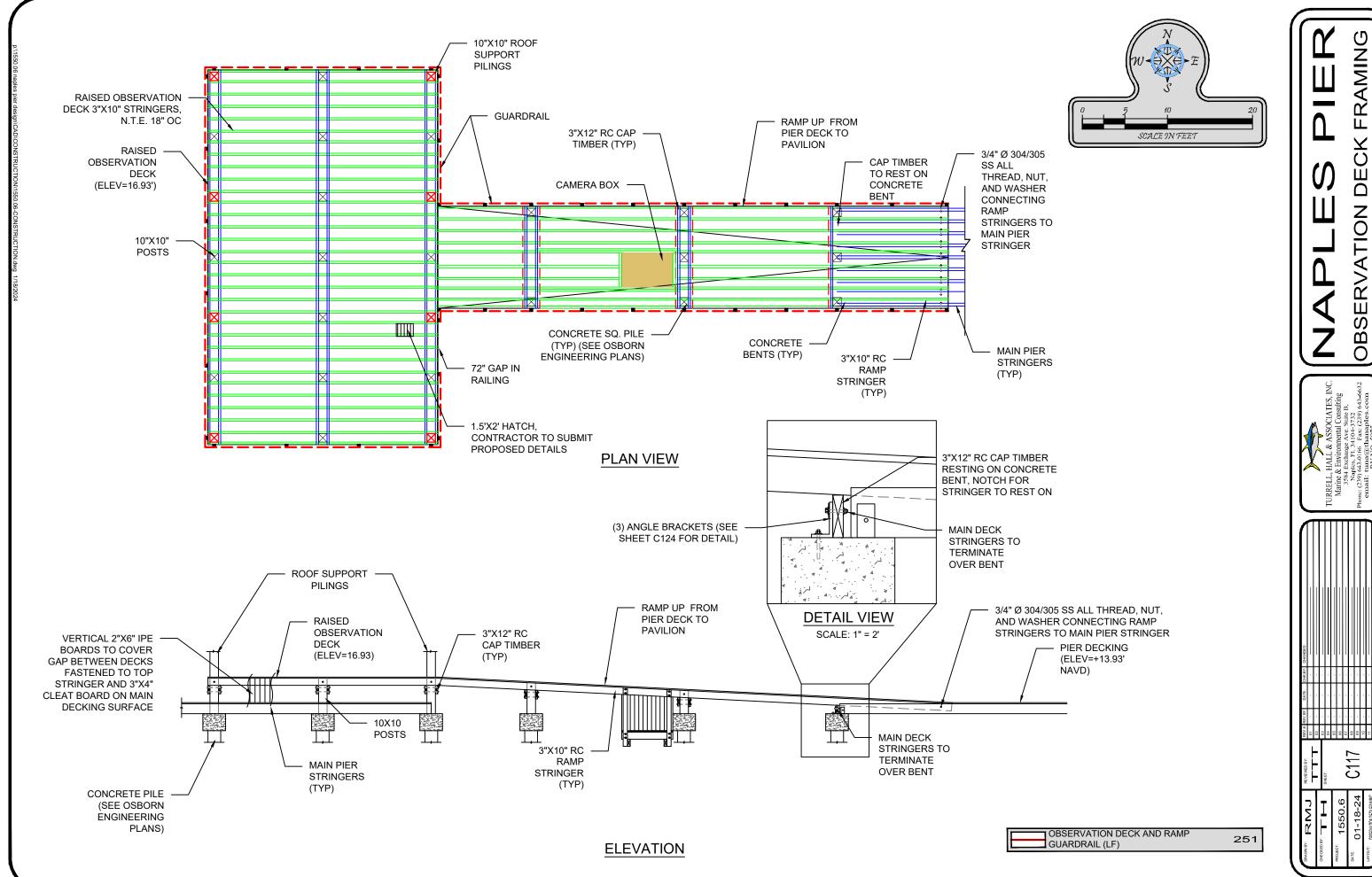


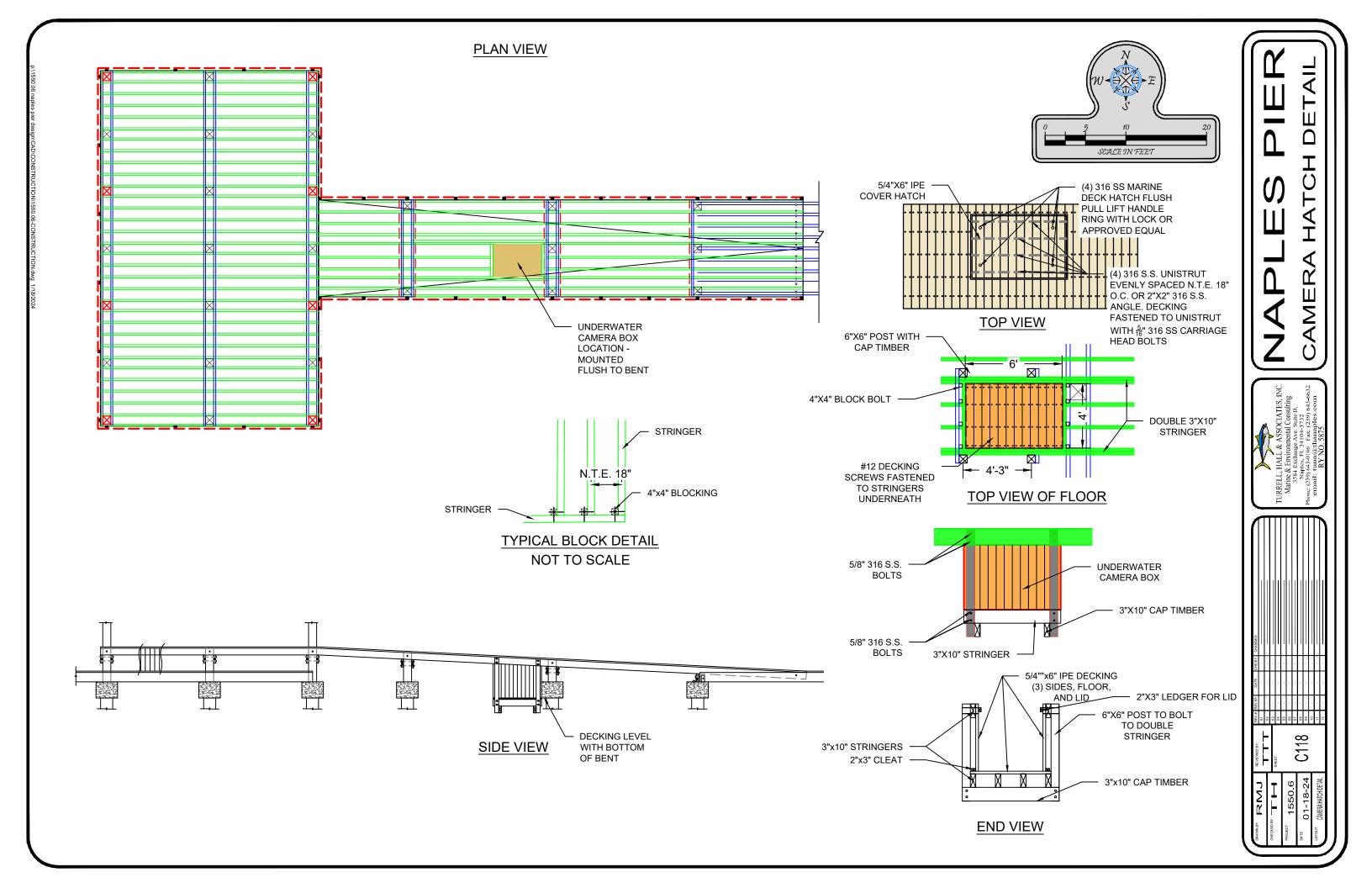




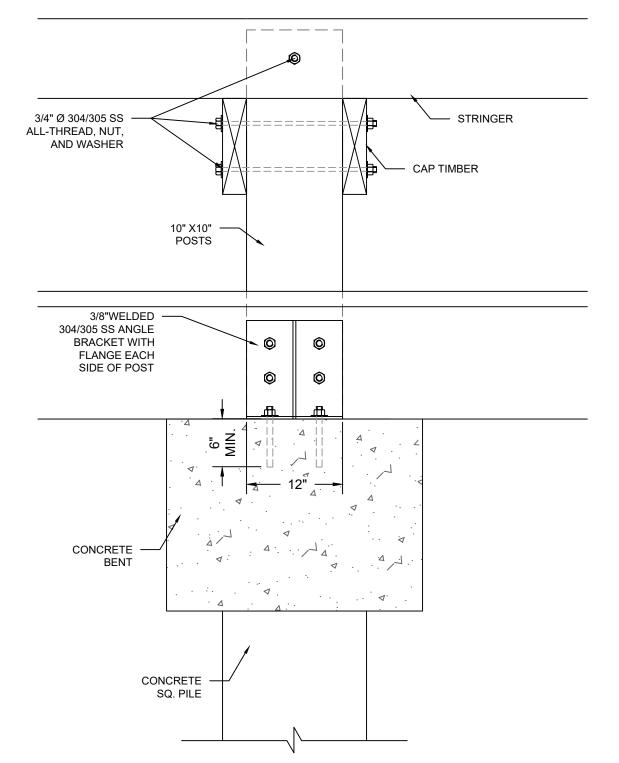


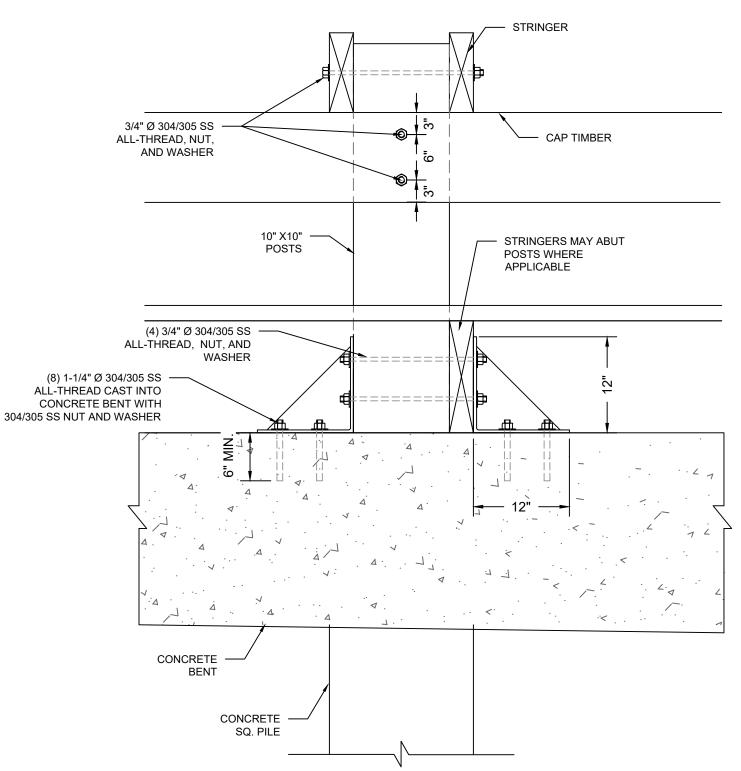












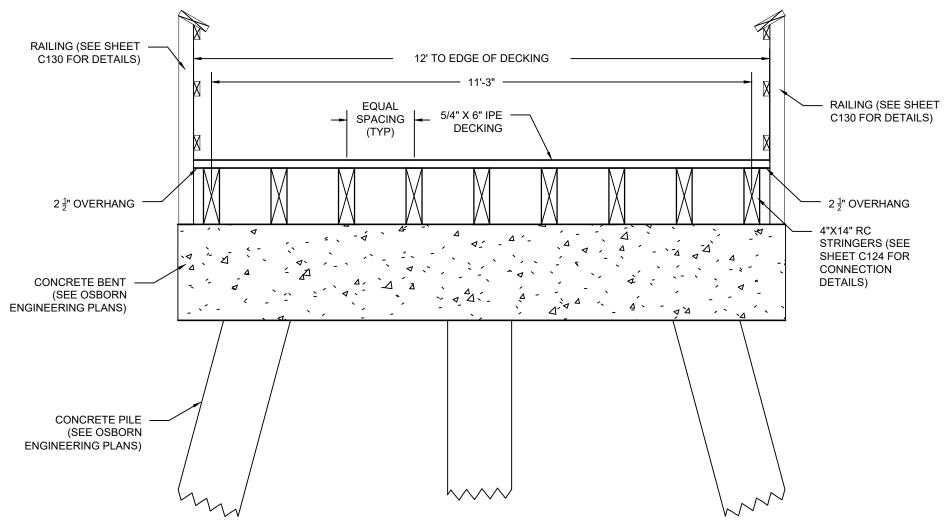
NOTE: CONNECTION TO BENT APPLIES FOR ROOF POSTS AT END, MID, AND ONSHORE PAVILIONS

ROOF POST - OBSERVATION DECK POST CONNECTION DETAILS

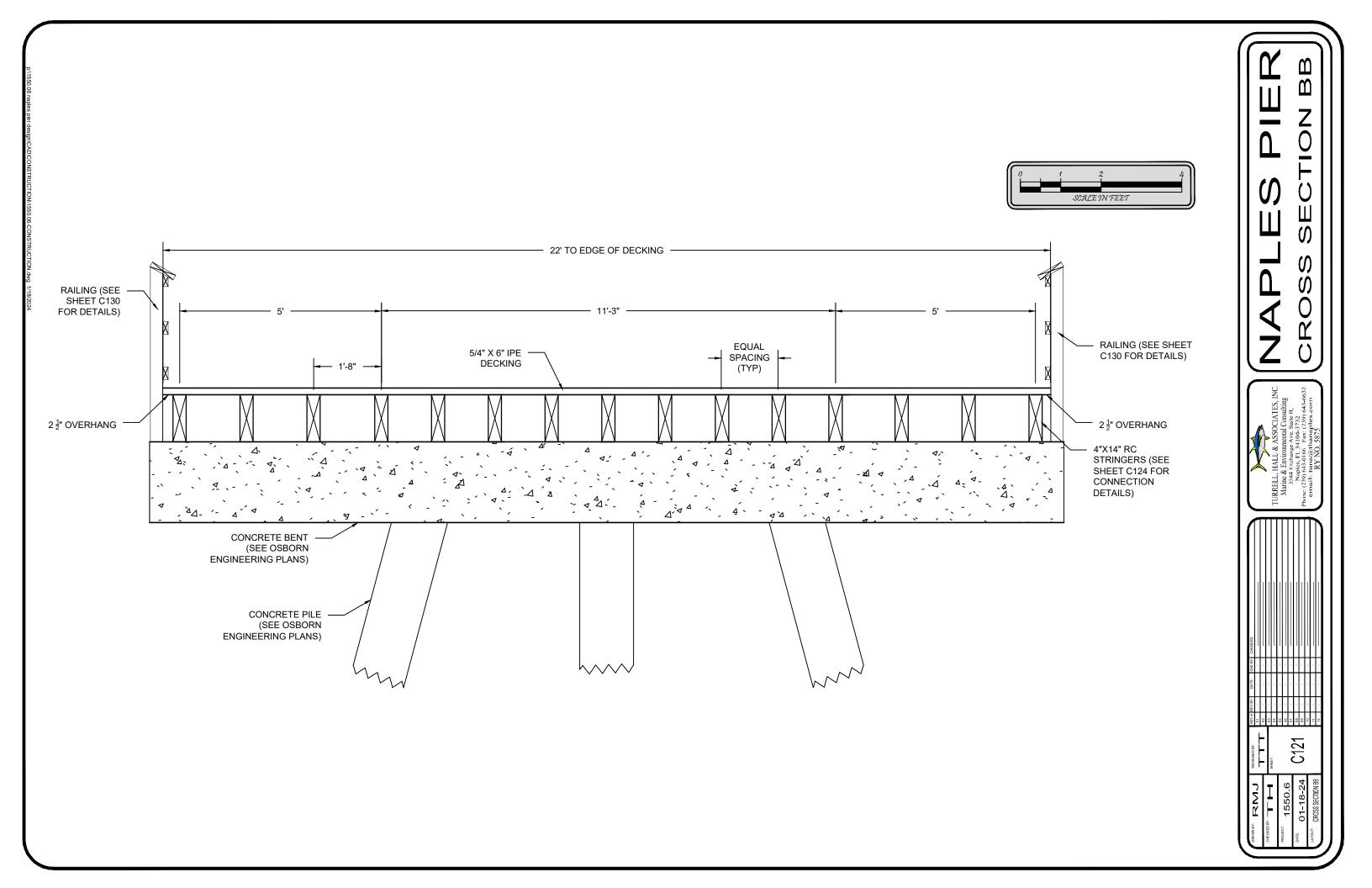
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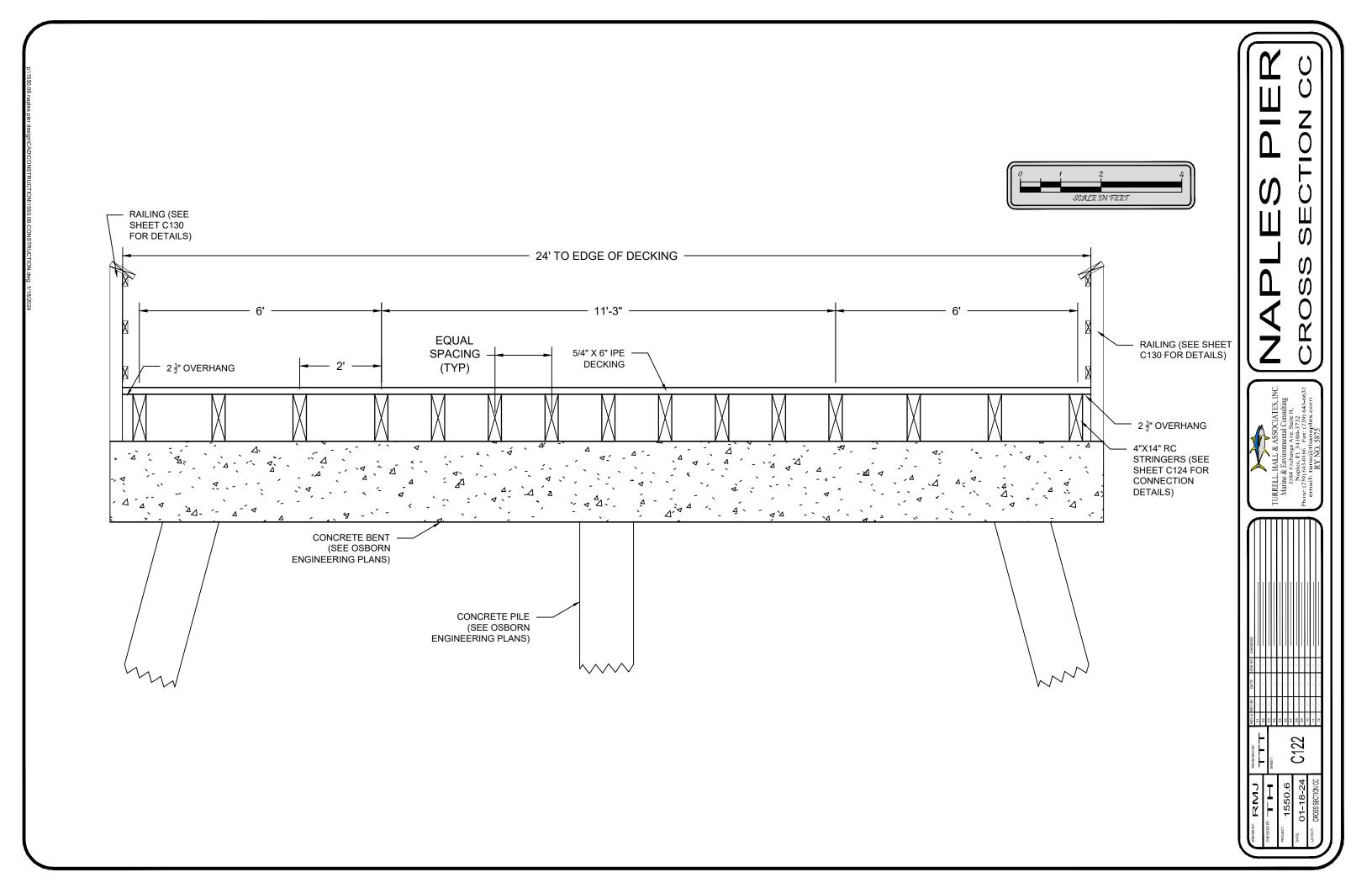
C119

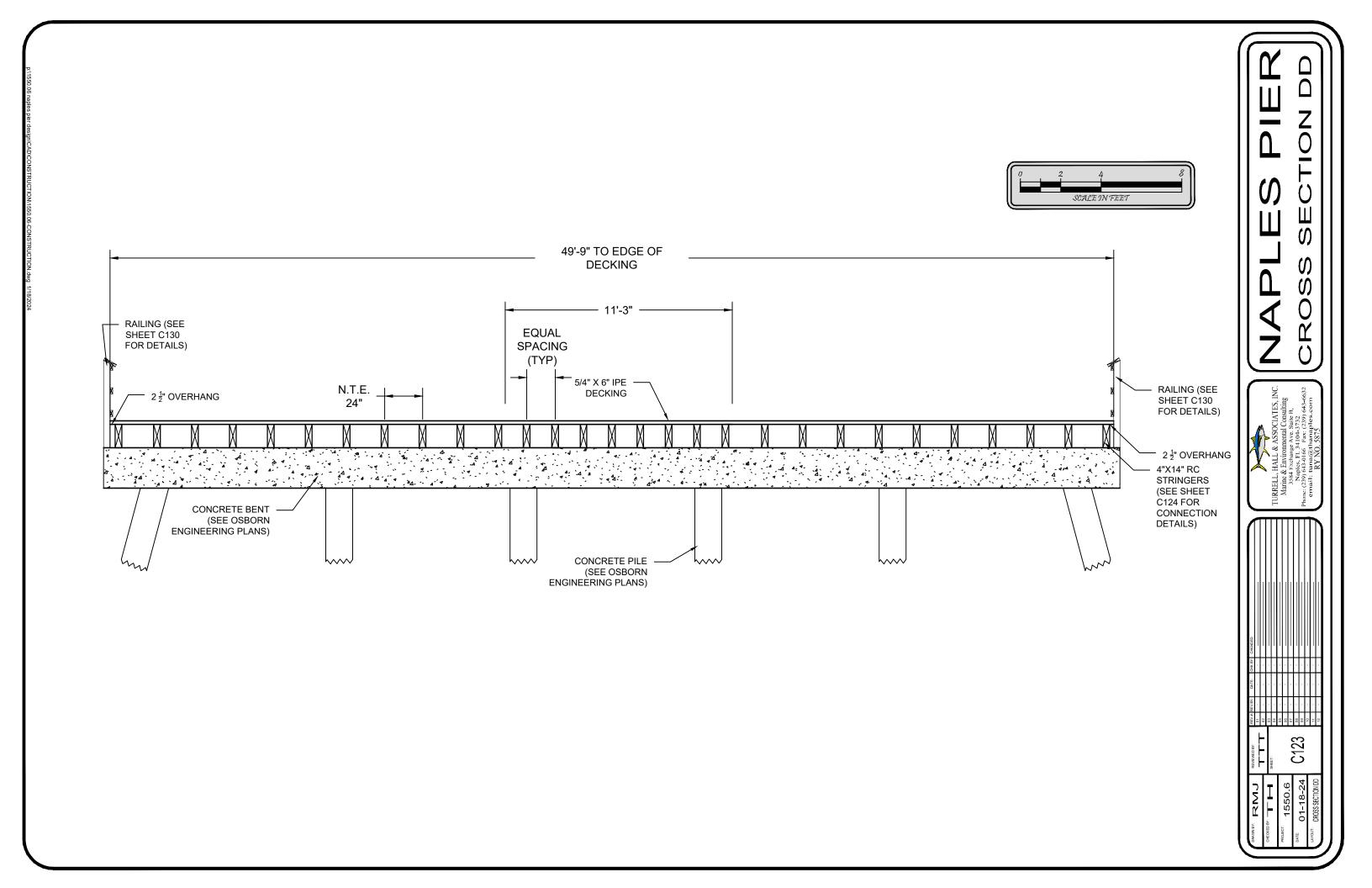
2 SCALE ON FEET

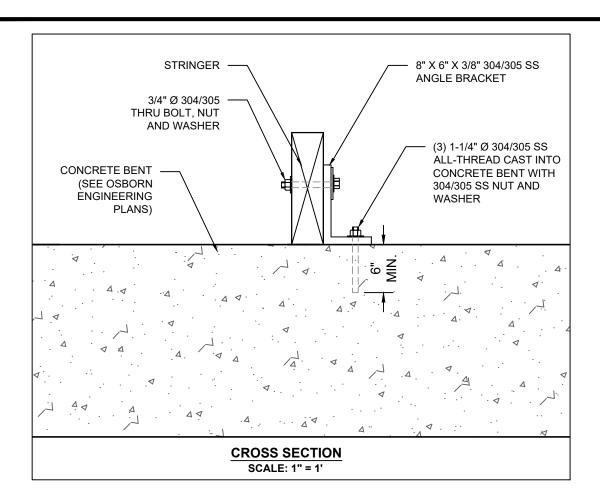


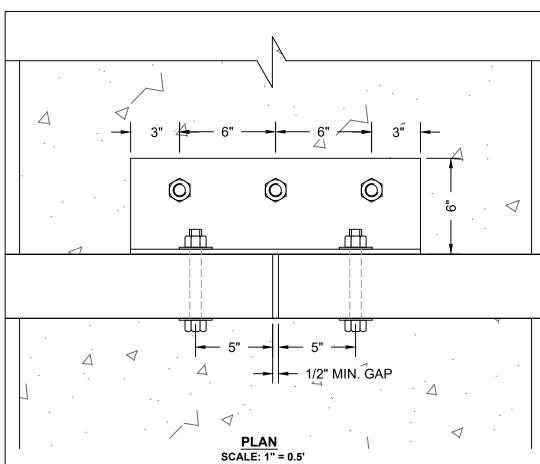




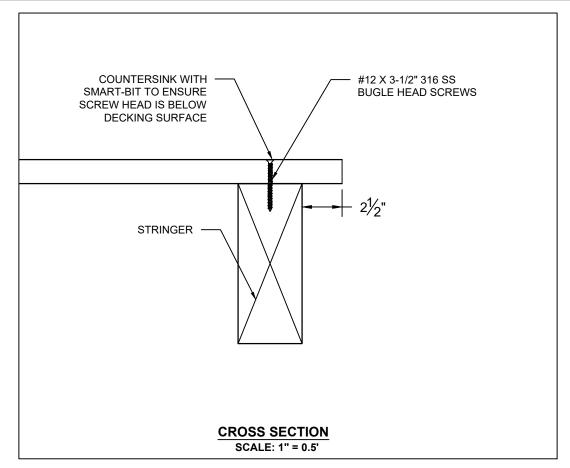


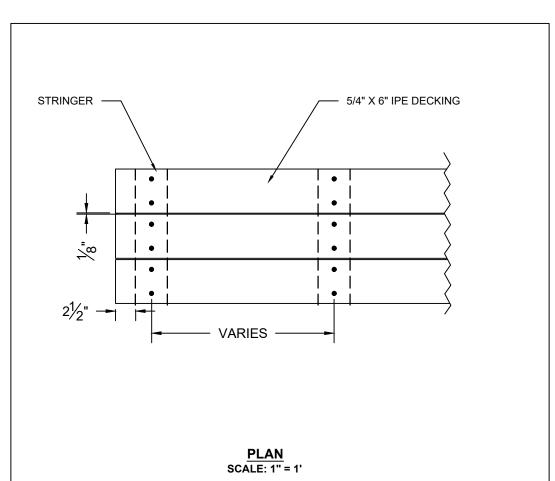






STRINGER CONNECTION DETAIL

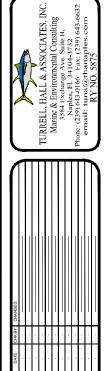


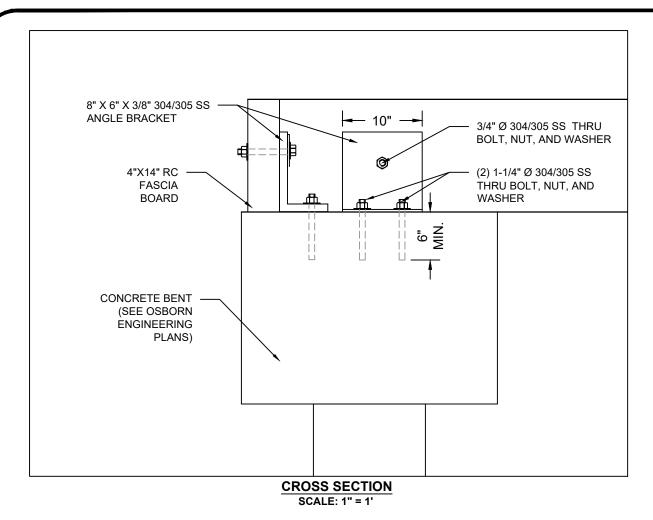


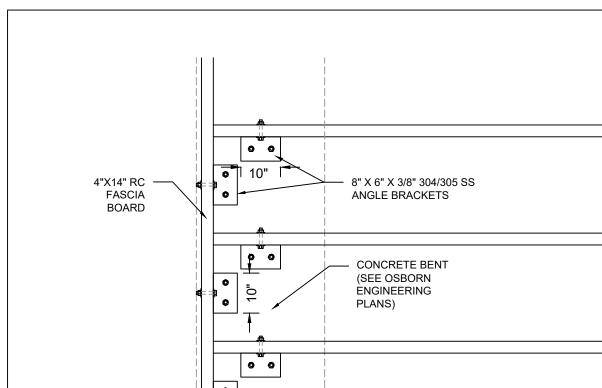
DECKING CONNECTION DETAIL

NAPLES PIER

DOCK DETAILS 1







PLAN

SCALE: 1" = 2'

STRINGER TERMINATION / FASCIA

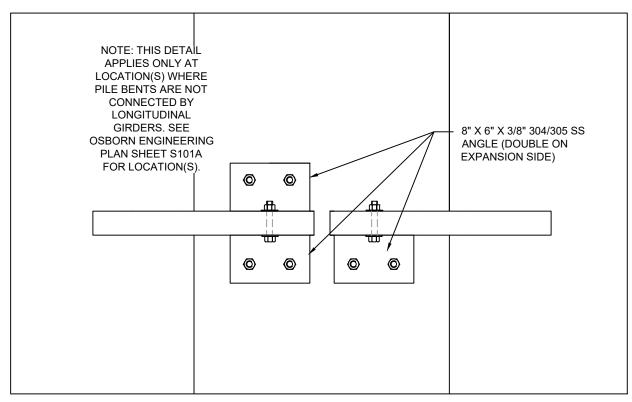
CONNECTION DETAIL

DECKING -**EDGES** TEE, LENGTH TO EXTEND FULL WIDTH OF PIER 3/4" Ø 304/305 SS THRU BOLT, NUT, AND WASHER (2) 1-1/4" Ø 304/305 SS THRU BOLT, NUT, AND WASHER 3/4" X 3" SLOT CUT IN 10" 📙 ANGLE BRACKET ^L2" GAP 3/4" Ø 304/305 SS THRU BOLT, NUT, WASHER, AND **ELASTIC STOP NUT** (2) 1-1/4" Ø 304/305 SS THRU BOLT, NUT, AND WASHER CONCRETE BENT LONGITUDINAL **GIRDER CROSS SECTION** SCALE: 1" = 1'

5" X 5" X 3/8" 304/305 SS

C125

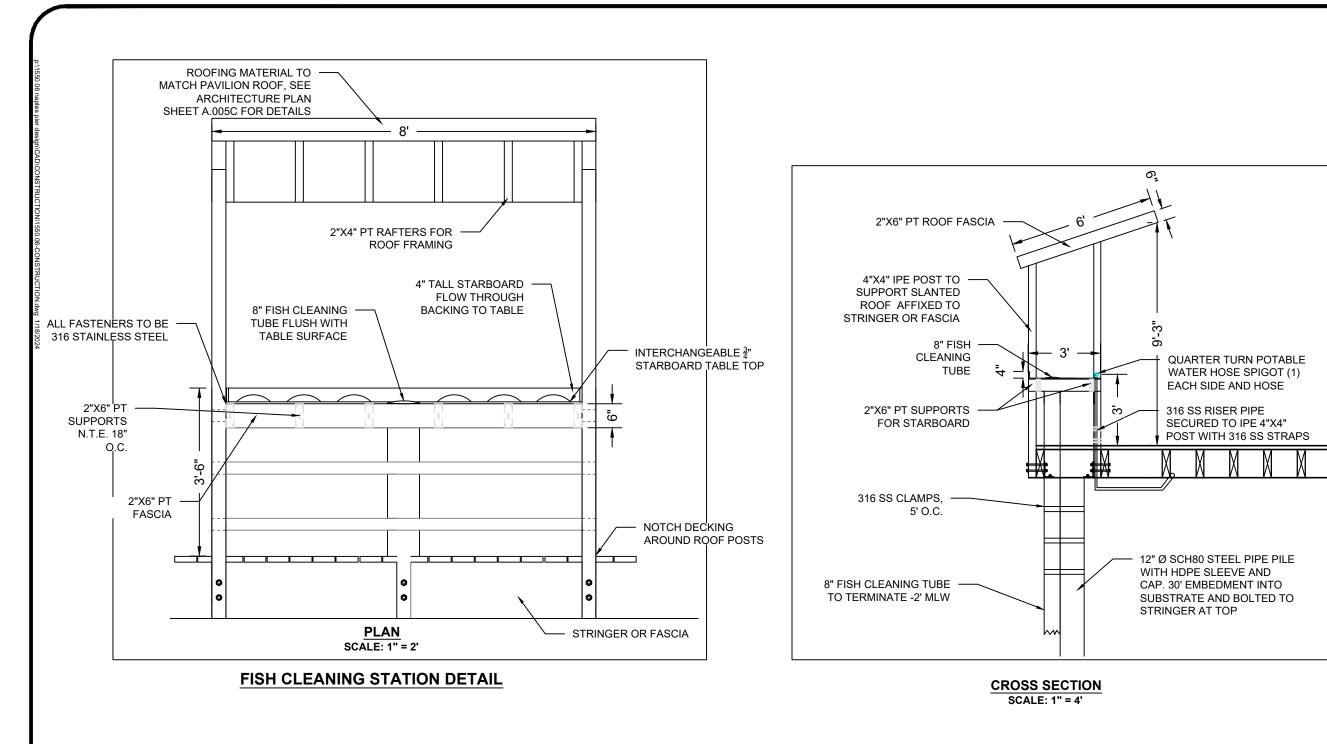
ROUND -



PLAN

EXPANSION JOINT DETAIL

SCALE: 1" = 1'



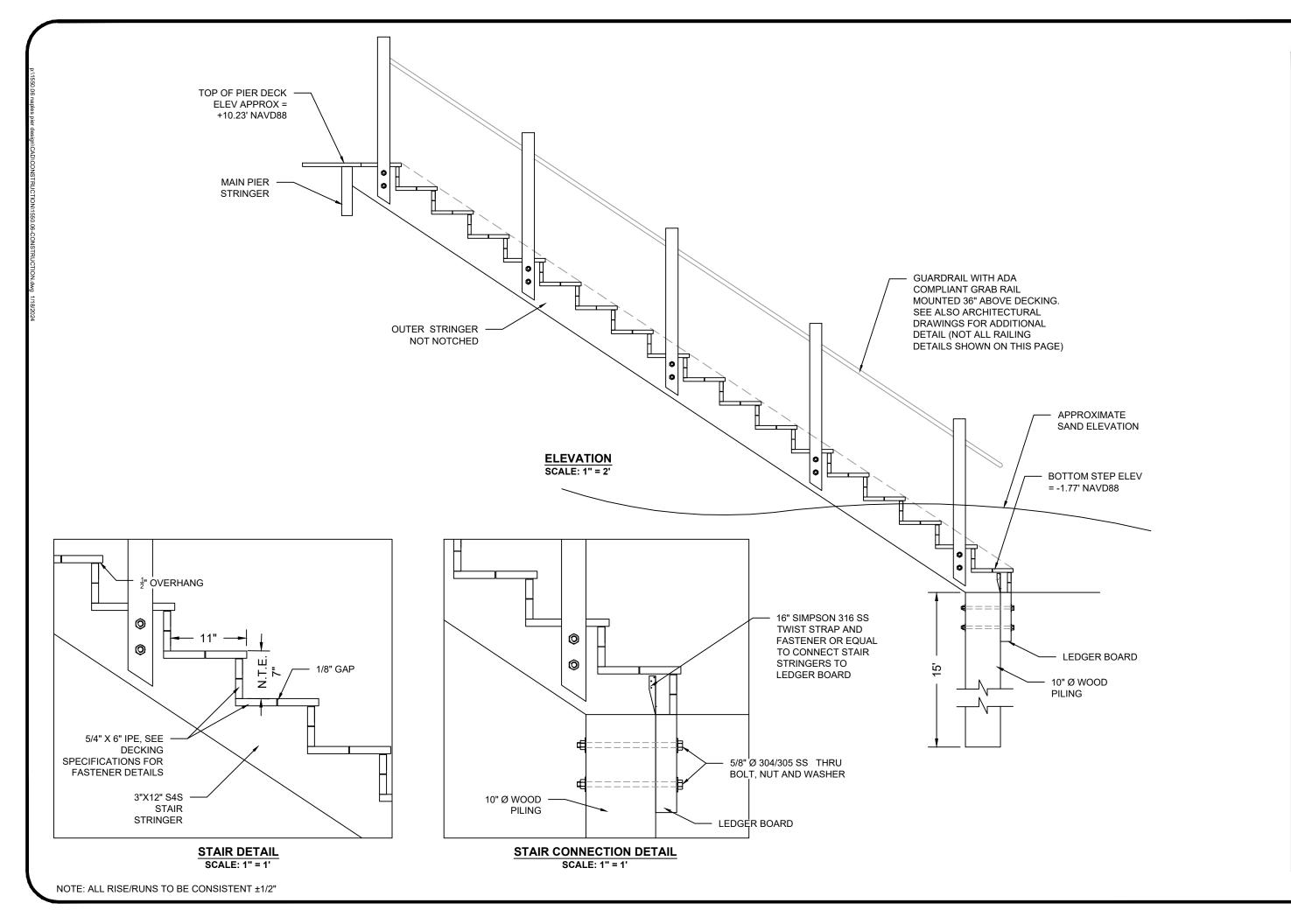
NAPLES PIER
FISH CLEANING STATION DETAILS

TURRELL, HALL & ASSOCIATES, INC.
Marine & Environmental Consulting
3.884 i revenge Ave. Suite 94.
Naples, Fl. 34104-3732
Phone: (239) 643-666 Fast; (239) 643-663
ermail: unna@athamples.com

10 FEW BRO DW DATE: CHARBY CHARBED

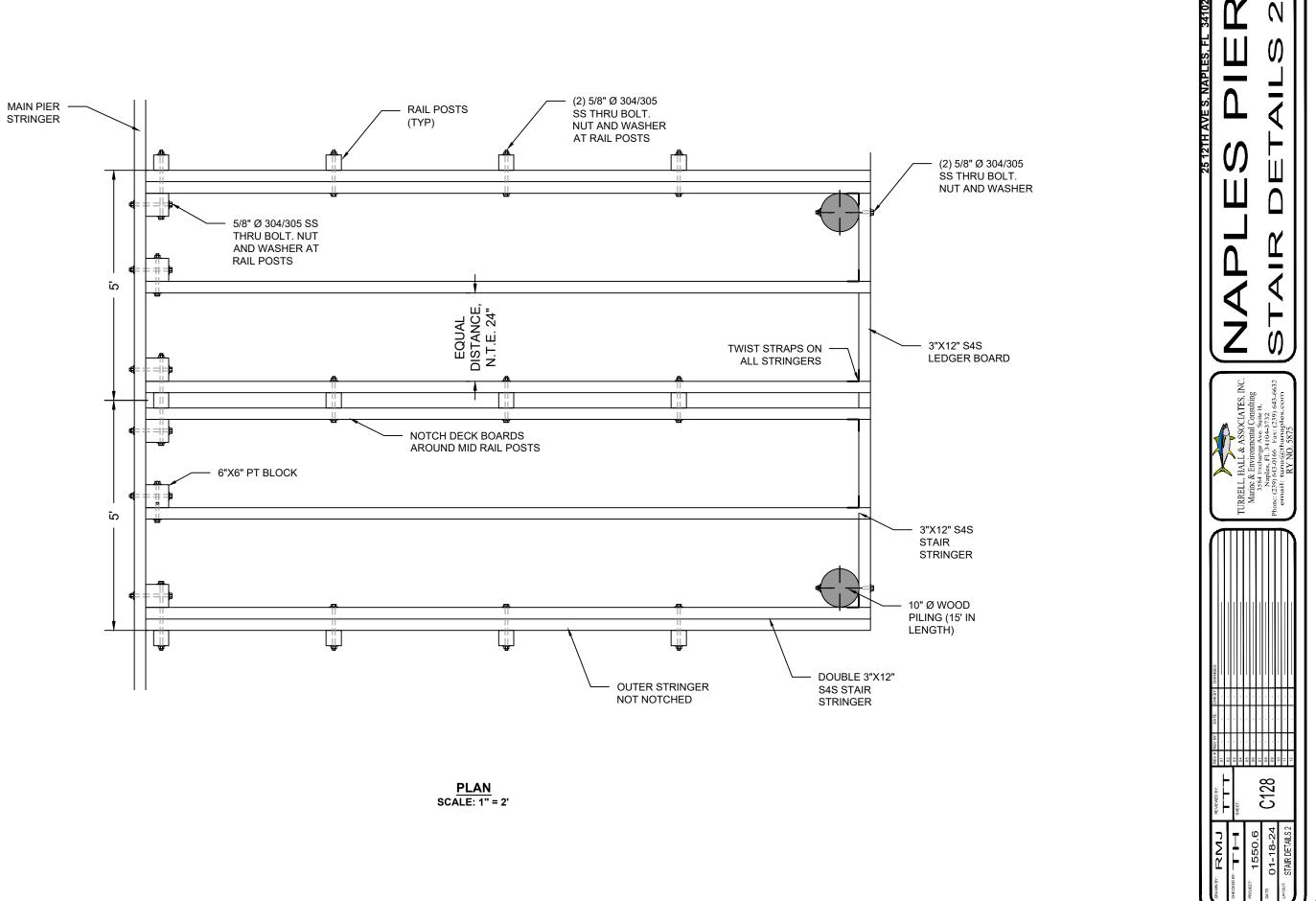
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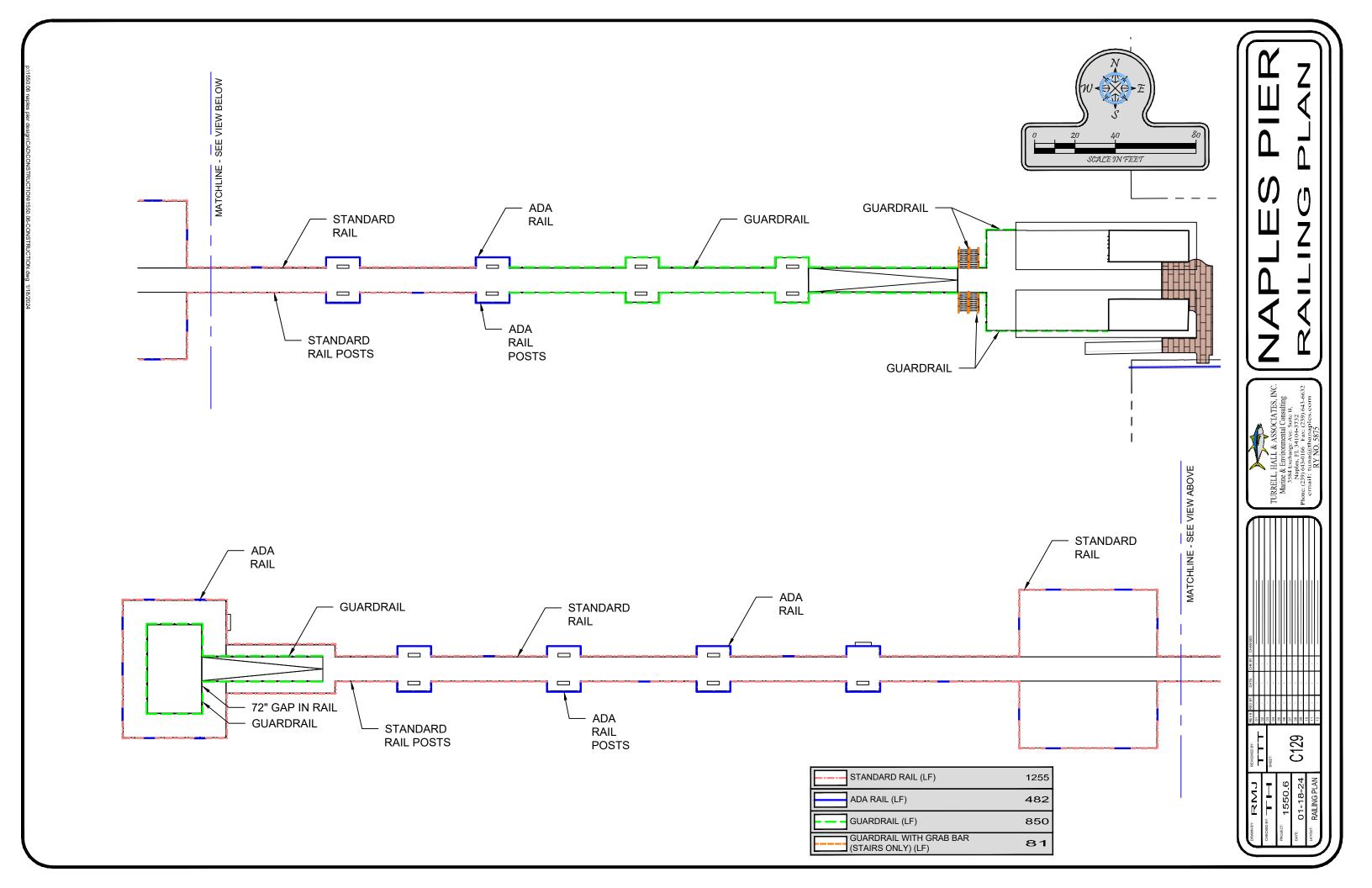
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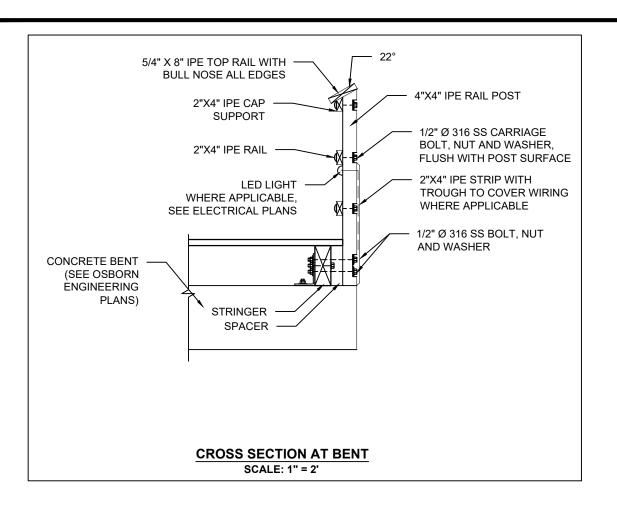


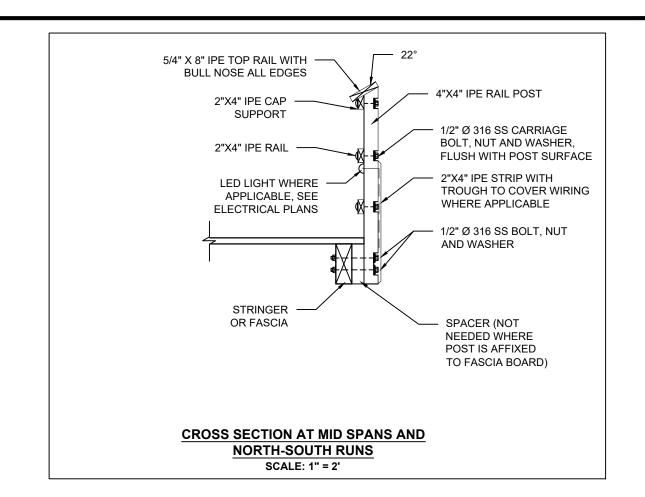
NAPLES PIER STAIR DETAILS 1

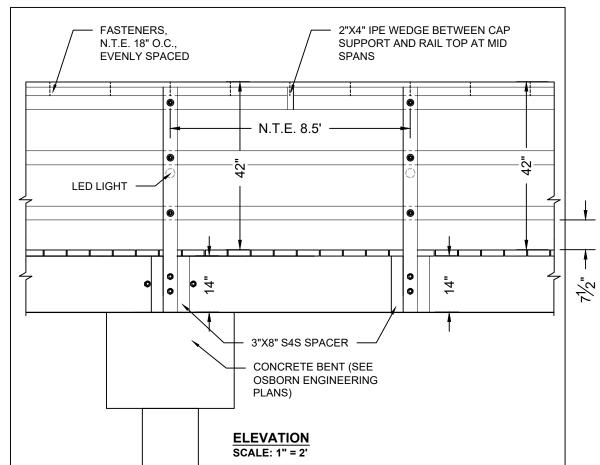
TURRELL, HALL& ASSOCIATES, INC.
Marine & Environmental Consulting
3584 Exbange Ave. Suite B.
Noples, FL 34104-3723
Phone: (239) 643-6632
email: tuna@athanaples.com











STANDARD RAILING DETAILS

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

TURRELL, HALL & ASSOCIATES, INC.
Marine & Environmental Consulting
33841 revenge Ave. Suite 9.
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Phone: (239) 643-0166 Fax: (239) 643-6632
email: tuna@ithampless.com
RY NO. 5875

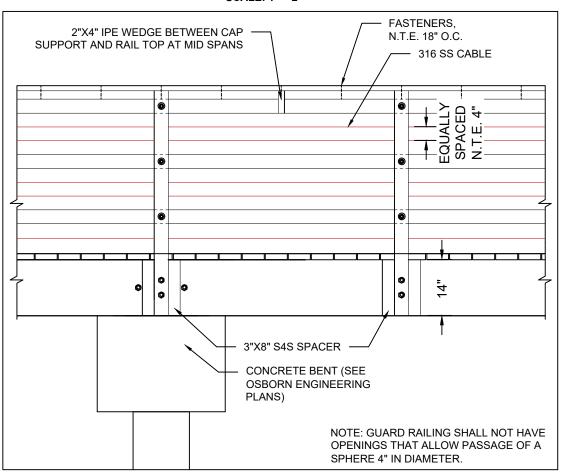
| NEV # | REV #F | CHK #F | CH

C130

2"X4" IPE WEDGE BETWEEN CAP SUPPORT AND RAIL TOP FASTENERS, N.T.E. 18" O.C., **EVENLY SPACED** 14 3"X8" S4S SPACER CONCRETE BENT (SEE OSBORN ENGINEERING PLANS)

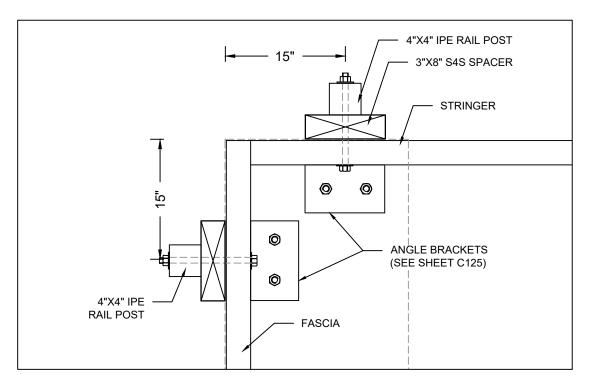
ADA RAILING DETAILS

SCALE: 1" = 2'



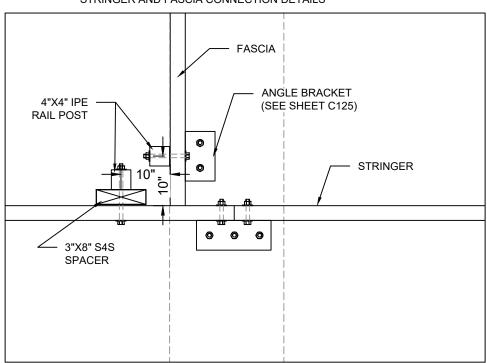
GUARD RAILING DETAILS

SCALE: 1" = 2'



OUTSIDE CORNER DETAIL

NOTE: SEE SHEET C124 & C125 FOR STRINGER AND FASCIA CONNECTION DETAILS



INSIDE CORNER DETAIL

SCALE: 1" = 1'

NOTE: SEE SHEET C124 & C125 FOR STRINGER AND FASCIA CONNECTION DETAILS

INCLUDING CORNER DETAILS

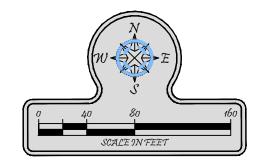
NOTE: RAILING FASTENERS

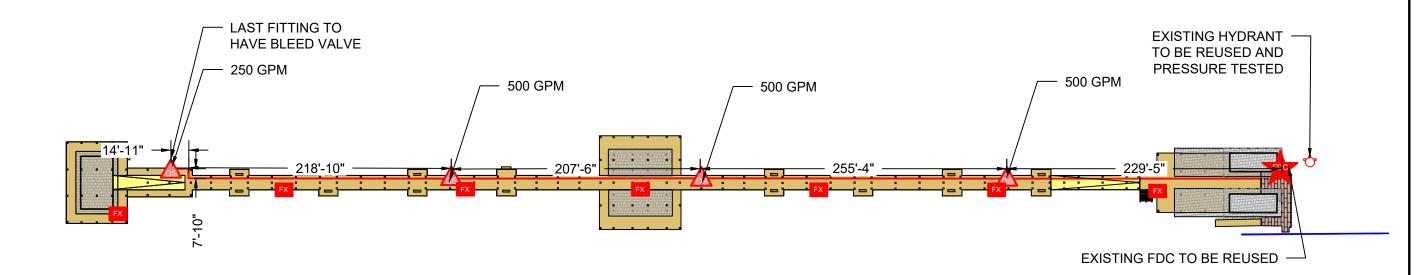
SHALL BE #12 X 3 ½" 316 SS

UNLESS OTHERWISE NOTED.

BUGLE HEAD SCREWS

CONTRACTOR TO SUBMIT PROPOSED WIRE RAIL SYSTEM





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			
A	DRY STAND PIPE			
O	EXISTING HYDRANT			
	4" 316 SS FIRE LINE			

FIRE PIPING SPECIFICATIONS:

- 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. ALL PIPING SHALL BE 316 STAINLESS STEEL AND ALL FITTINGS SHALL BE CLAMPED.
- ALL PIPING SHALL BE PRESSURE TESTED AFTER CONNECTING APPLICABLE VALVES.
- 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
- ALL 90 DEGREE BENDS SHALL BE LONG RADIUS.
 CONTRACTOR SHALL SUBMIT ALL MATERIALS TO EOR AND FIRE DEPARTMENT PRIOR TO COMMENCEMENT FOR NECESSARY APPROVALS.
- ALL UNDERGROUND PIPING TO HAVE A FIRE INSPECTION.
- ALL TESTING SHOULD OCCUR BEFORE DECKING.
- ALL PIPING SECTIONS TO BE COUPLED WITH 316SS FLEXIBLE COUPLINGS.
- CONTRACTOR RESPONSIBLE TO HAVE PROPERLY LICENSED FIRE CONTRACTOR INSTALL 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 Valve

GPM	250
Result overall PSI (drop)	24.0749496

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 Based on Hazen-Williams Formula

Naples Pier

2ND Most Remote Valve GPM 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)

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 Based on Hazen-Williams Formula Naples Pier

3rd Most Remote Valve

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 Based on Hazen-Williams Formula

Naples Pier

4th Most Remote Valve

GPM	500
Result overall PSI (drop)	51.7085329

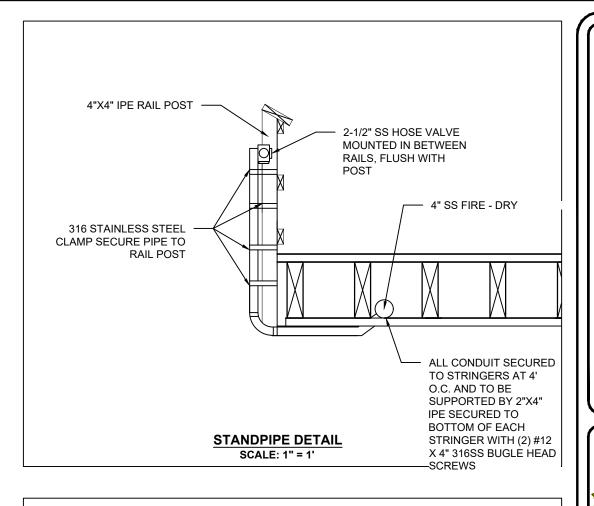
SS

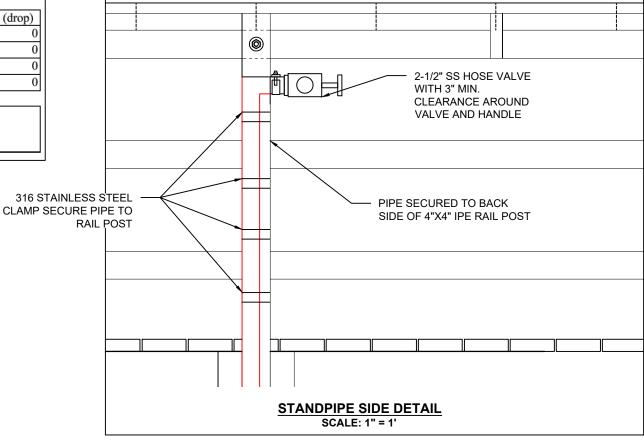
Nominal Diameter (in)	Diameter (in)	C(Coeff).)	Length(ft)	PSI (drop)
2-1/2	2.5	150	75	36.198212
3	3	150	0	0
4	4	150	317	15.510321

HDPE

IIDEE				
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 Based on Hazen-Williams Formula

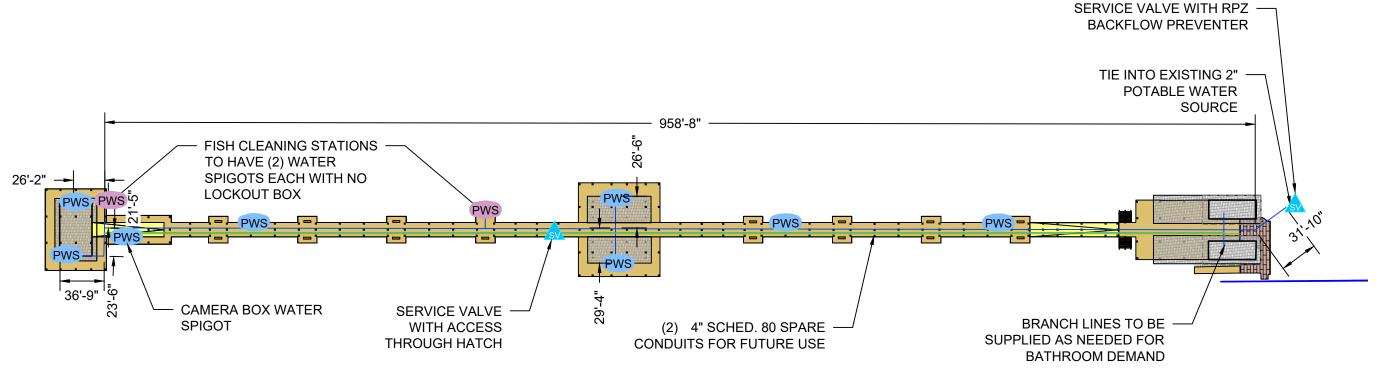


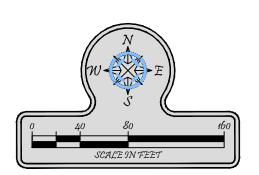






U101

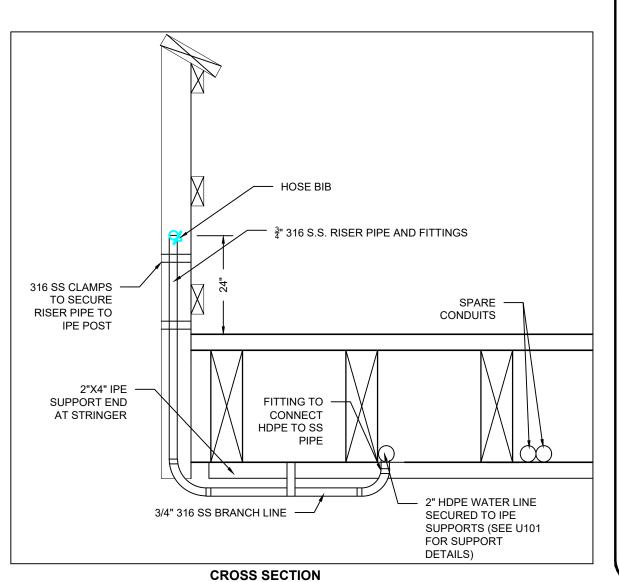




POTABLE WATER SPECIFICATIONS:

- INSTALLATION OF ALL PIPING SHALL BE PER THE LATEST EDITION ACCEPTED BY 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: WATER TRUNK LINES SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) SDR 11 PRESSURE RATED PIPE WITH HEAT FUSED JOINTS. THE PIPING SHALL HAVE UV
- 2. BALL VALVES FOR SERVICE VALVES SHALL BE FULL PORT TYPES 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. 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
- PIPING SHALL BE STRAPPED TO DOCK SYSTEM UTILIZING INTERFERENCE FIT 316 STAINLESS STEEL STRAPS THAT RESTRAIN EXPANSION AND CONTRACTION.

LEG	LEGEND			
PWS	316 SS SURFACE MOUNT QUICK CLOSE POTABLE WATER SPIGOT WITH LOCKOUT BOX OR APPROVED EQUAL (8)			
PWS	FISH CLEANING WATER SPIGOT WITH FULL FLOW SS QUICK CLOSE VALVE AND BACK FLOW PREVENTER OR APPROVED EQUAL (4)			
	2" HDPE POTABLE WATER LINE			
	(2) 4" SCHED. 80 SPARE CONDUITS SECURED 4" O.C.			
SV	SERVICE VALVE			



SCALE: 1" = 1'

BUILDING DESIGN CRITERIA

GOVERNING CODE: 2023 FLORIDA BUILDING CODE IN CONJUNCTION WITH ASCE 7-22 RISK CATEGORY:

FLOOR LIVE LOADS

ASSEMBLY 100 PSF

WIND LOAD:

ULTIMATE DESIGN WIND SPEED (Vult) NOMINAL DESIGN WIND SPEED (Vasd WIND EXPOSURE: 167 MPH 129.4 MPH WIND EXPOSURE: INTERNAL PRESSURE COEFFICIENT: COMPONENTS AND CLADDING PRESSURE: ±0.0 (OPEN) PER ASCE 7-22

WAVE LOAD PROVIDED BY HUMISTON & MOORE ENGINEERS WAVE HEIGHT (FT) WAVE LOAD (LBS/PILE)

ENVIRONMENTAL CLASSIFICATION EXTREMELY AGGRESSIVE

GENERAL CONDITIONS:

- SEE ARCHITECTURAL, PLUMBING, & ELECTRICAL DRAWINGS FOR OTHER SEE ARCHITECTURAL, PLUMBING, & ELECTRICAL DRAWINGS FOR O PERTINENT INFORMATION RELATED TO STRUCTURAL WORK AND COORDINATE AS REQUIRED. CONTRACTOR SHALL COORDINATE STRUCTURAL DRAWINGS WITH ALL OTHER DRAWINGS WITHIN THE CONTRACT DOCUMENTS.
- 2 THE CONTRACTOR SHALL VERIEVALL DIMENSIONS ELEVATIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES, AND THE SITE BEFORE BEGINNING WORK.
- CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT 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.
- 4 IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DEAVINGS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- 5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FOLLOWING ITEMS
 THAT WILL NOT BE REVIEWED BY THE OWNER. ARCHITECT OR ENGINEER:
- A. DEVIATIONS FROM CONTRACT DOCUMENTS.
- B. DIMENSIONS, ELEVATIONS AND CONDITIONS TO BE CONFIRMED AND CORRELATED AT THE SITE.
- C. FABRICATION PROCESS INFORMATION.
- D. MEANS, METHODS, TECHNIQUES, PROCEDURES OF CONSTRUCTION AND CONSTRUCTION SAFETY.
- F. COORDINATION OF THE WORK OF ALL TRADES.
- 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 EOR FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION. IF CHANGES ARE MADE WITHOUT WRITTEN A PPROVAL 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

EXISTING CONDITIONS:

- THE INFORMATION SHOWN ON THE ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DOCUMENTS IS BASED ON ASSUMPTIONS OF THE EXISTING BUILDING CONSTRUCTION. ORIGINAL 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.

PRECAST CONCRETE PILES

- CODES AND STANDARDS:
 ALL PRECAST CONCRETE PILE WORK, DETAILING, FABRICATION AND
 ERECTION SHALL BE GOVERNED BY CONTRACT DOCUMENTS AND LATEST
 EDITIONS OF BELOW UNLESS NOTEO OTHERWISE:
 A. FOOT STANDARD SPECS FOR ROAD AND BRIDGE CONSTRUCTION:
 SECTION 455 AND ALL REFERENCED SECTIONS
- 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 AFE 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 ENGINEERING 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 DESIGNED TO A P'C OF 6000 PSI AT DRIVING. CONCRETE SHALL ATTAIN A MINIMUM P'C 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 ASTIM A-416, ALL PILES SHALL BE DRIVEN OR JETTED. TO A CONCRETE PILE TIP ELEVATION TO MEET GEOTECHNICAL BERDRY BEGOMED FOR MEMORY. REPORT RECOMMENDATIONS
- 6. TOTAL PILE LENGTHS AT:

 A FAST (BFACH) 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
 - 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
- LOAD TESTS SHALL BE CONDUCTED ON THE PILING WHEN IN PLACE. THE CRITERIA AS SET FORTH IN FDOT 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. LOCATION OF THE LOAD TEST SHALL BE AT THE DISCRETION OF THE ENGINEER. 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 ENGINEER.
- 10. 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 FROM THE PILE CENTER-LINES. SUBMIT AS-BUILT DRAWINGS TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CASTING GRADE BEAMS AND/OR PILE CAPS.
- 11. PILES TO BE FURNISHED TO THEIR TOTAL PRODUCTION LENGTH. PLANNED SPLICES REQUIRE PRIOR APPROVAL FROM THE ENGINEER.

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 MIN. 116- MANUAL FOR QUALITY CONTROL. PCI CODE OF STANDARD PRACTICE FOR PRECAST CONCRETE PDOT STANDARD SPECS FOR ROAD AND BRIDGE CONSTRUCTION. SECTION 455 AND ALL REFERENCES SECTIONS (UN O.) PDOT STRUCTURES DESIGN GUIDELINES, SECTION 3.5 AND ALL REFERENCED SECTIONS (UN O.)

- CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: PRECAST PILING: CLASS V (SPECIAL) fo = 6 000PSL
- THE PRECAST CONCRETE MANUFACTURING PLANT SHALL BE CERTIFIED BY THE PRESTRESSED CONCRETE INSTITUTE, PLANT CERTIFICATION PROGRAM, PRIOR TO THE START OF PRODUCTION.
- 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

- CONNECTORS: STAINLESS STELL AS IM ABBG 1974: 304 REINFORCING BARS: ASTM 615 Fy = 60 KSI. WELDABLE REINFORCING BARS: ASTM 706, Fy = 60 KSI. WELD WIRE FABRIC: ASTM A82 AND A186, Fy = 65 KSI (PLAIN). AIR-ENTRAINING AGENT: ASTM CERO CORROSION INHIBITIOR REDUCED: FDOT 924-2.2 (ASTM G109)
- SUBMITTALS SUBMIT SHOP DRAWINGS FOR REVIEW THAT INCLUDES BUT NOT
- TED TO:

 ERECTION PLANS, ELEVATIONS AND PIECE SHEETS.

 CONNECTION DETAILS AND HARDWARE ATTACHMENTS.

 DESIGN LOADS.
- C. DESIGN LOADS.
 SUBMIT CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL
- ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
 PROVIDE MANUFACTURER STANDARD PUBLISHED LITERATURE AND
- LOAD TABLES.
 TEST REPORTS:
 a. CERTIFICATES FOR MATERIAL COMPLIANCE WITH
- a. CENTIFICATES FOR MAI ENTIL COMPLANCE WITH SPECIFICATION.
 b. CONCRETE DESIGN MX
 COMPRESSIVE STRENGTH TEST RESULTS.
 NO FABRICATION 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.
 LENGTH AND WIDTH OF UNIT:

 a. UNIT 10 FEET AND LESS: +/- 1/8 INCH.
 b. UNIT 10 FEET TO 20 FEET: +/- 1/8 INCH.
 THICKNES OF UNIT: +/- 1/4 INCH. +//3 INCH.
 THICKNES OF UNIT: +/- 1/8 INCH.
 SOUNTERS OF UNIT: -/- 1/8 INCH PER 6 FEET, MEASURED ALL DIAGONAMESS OF UNIT: -/- 1/8
- DIAGONAL.
 INSERTS: +1-3/8 INCH
 CAMBER OR SWEEP: +1-1/8 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:

 A. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, AS REQUIRED, DURING THE ERECTION OF PRECAST UNITS.

 B. 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 DETALLS.
- 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.
- EOR WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
- 5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE
- PRECAST PILES
 TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURE TO

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

- CONNECTIONS TO SUPPORTING STRUCTURAL MEMBERS. SHALL BE CLAMPING DEVICE WHICH DO NOT DAMAGE OR DEFORM THE STRUCTURAL ELEMENTS. WELDING TO OR DRILLING HOLES IN STRUCTURAL MEMBERS IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO LOCATE AND DISTRIBUTE HANGING LOADS AS REQUIRED SO AS TO NOT EXCEED THE LOAD CARRYING CAPACITY OF THE MEMBER.
- 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 APPROPRIATE INSTALLING CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOADS IMPOSED BY THE INSTALLED ITEMS. STAGGER HANGERS AND SUPPORTS FROM THE STRUCTURE SO AS TO DISTRIBUTE THE LOADS LINIFORMLY 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. CONDUIT, DUCT WORK, FIRE PROTECTION, SUSPENDED CEILINGS, TOO STANDARD CEILINGS, CEILINGS, TOO STANDARD CEILINGS,

CAST IN PLACE CONCRETE:

- CODES AND STANDARDS:
 ALL CAST-IN-PLACE CONCRETE WORK, DETAILING, FABRICATION AND
 PLACING OF REBARS, TESTING, SAMPLING, AND CONCRETE SHALL BE
 GGVERNED BY CONTRACT DOCUMENTS AND LATEST EDITIONS OF:
 A. AC 1318 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONC.
 B. AC 1315 DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 C. ACI 301 SPECIFICATION OF STRUCTURAL CONCRETE
 D. ACI 117 SPECIFICATION FOR TOLERANCES FOR CONCRETE

- ACI 117 SPEJIFICATION FOR TOLERANCES FOR CONCREI CONSTRUCTION AND MATERIALS. ACI 305 SPECIFICATION OF HOLD WEATHER CONCRETING. ACI 306 SPECIFICATION OF COLD WEATHER CONCRETING FIELD REFERENCE MANUAL MUST BE PRESENT ON SITE. CONCRETE REINFORCING STEEL 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
- MATERIALS
- ENIALS:

 PORTLAND CEMENT: ASTM C150.

 AGGREGATES: ASTM C33.

 AIR-ENTRAINING: ASTM C260.

 REINFORCING BARS: ASTM 615 Fy = 60 KSI.
- WEI DABI E REINFORCING BARS: ASTM 706. Ev = 60 KSI.
- ADMIXTURES

 a. LOW OR MID RANGE REDUCER: ASTM C494, TYPE A OR D.
 b. HIGH RANGE WATER REDUCER: ASTM C494, TYPE F OR G.
 c. ACCELERATION ASTM A981 TYPE C OR E.
 LY ASH: ASTM C618, TYPE C OR E.
- CORROSION INHIBITOR REQUIRED: FDOT 924-2 2 (ASTM G109)
- SUBMITTALS:
 A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTIONS PLANS, POUR SEQUENCE (IF APPLICABLE), CONSTRUCTION JOINTS AND/OR EXPANSION JOINTS, ELEVATIONS CALEFULIES.
- 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.
 SUBMIT REPORTS FOR ALL REQUIRED TESTING AND INSPECTIONS.
- NO CONCRETE SHALL BE PLACED UNTIL ALL SUBMITTALS HAVE BEEN

SPLICES: A. REINFORCING BARS LAP SPLICE LENGTHS SHALL CONFORM WITH THE MINIMUM LAP SPLICE TABLE. SPLICE TABLE. THAT PROVIDE A FILL TENSION.

- MINIMOM LAP SPLICE I ABLE.

 MECHANICAL 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 STOPS UND.

 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 MID- SPAN.

CURING

- ING.

 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:
 - HELLANEUD 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 MASONRY BRICK ARE NOT PERMITTED.
- DELUCA OR CLAY MASURICY BRICK ARE NOT PERMITTED.
 3/4" CHAMFER FOR EXPOSED EDGES OF CONCRETE UNO.
 COORDINATE WITH ALL TRADES INVOLVED FOR THE REQUIRED SIZE
 AND LOCATION OF ALL ANCHORS, SLEEVES, PADS, DEPRESSIONS,
 OFFINING AND EMPEROR.
- OPENINGS AND EMBEDS.
 BOND BREAKER MATERIAL SHALL BE 30 POUND FELT PAPER.
 ALL FORMWORK AND BRACING SHALL BE REMOVED INCLUDIN INTERNAL CORRODIBLE FASTENERS.

CONCRETE REBAR COVER	
EXPOSURE CONDITION	COVER
PRECAST PILES	3"
BEAMS/BENTS	3"

CONCRETE REBAR LAP SPLICE (CLASS B) - Fc = 5500 PSI						SI .			
		3/4" C	OVER	1 1/2"	COVER	2" C	2" COVER		OVER
	REBAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
	#3	16"	16"	16"	16"	16"	16"	16"	16"
	#4	22"	17"	18"	16"	18"	16"	18"	16"
	#5	32"	25"	22"	17"	22"	17"	22"	17"
	#6	44"	34"	26"	20"	26"	20"	26"	20"
	#7	70"	54"	43"	33"	38"	29"	38"	29"
	#8	87"	67"	54"	42"	44"	34"	44"	34"
	#9	105"	81"	67"	52"	54"	42"	49"	38"
	#10	126"	97"	82"	63"	66"	51"	55"	43"
	#11	147"	114"	97"	75"	80"	61"	61"	47"
	#14	194"	149"	132"	102"	109"	84"	81"	62"
	#18	292"	225"	209"	161"	176"	135"	133"	103"

	3/4" C	OVER	1 1/2"	COVER	2" C	2" COVER		3" COVER	
REBAR SIZE	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	
#3	12"	12"	12"	12"	12"	12"	12"	12"	
#4	17"	13"	14"	12"	14"	12"	14"	12"	
#5	25"	19"	17"	13"	17"	13"	17"	13"	
#6	34"	26"	20"	16"	20"	16"	20"	16"	
#7	54"	42"	33"	26"	29"	23"	29"	23"	
#8	67"	51"	42"	32"	34"	26"	34"	26"	
#9	81"	62"	52"	40"	42"	32"	38"	29"	
#10	97"	75"	63"	49"	51"	39"	43"	33"	
#11	114"	87"	75"	58"	61"	47"	47"	36"	
#14	149"	115"	102"	78"	84"	65"	62"	48"	
#18	225"	173"	161"	124"	135"	104"	103"	79"	



NAPLES PIER RECONSTRUCTION

The City of Naples

25 12th Ave S, Naples, FL 34102

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> GENERAL NOTES

DRAWING NO S.001

	TYPE	REQUIRED	CONTINUOUS	PERIO
1704.3 -	STEEL			
1	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	No	-	-
2	INSPECTION OF HIGH-STRENGTH BOLTING - BEARING CONNECTIONS.	No	-	-
3	INSPECTION OF HIGH-STRENGTH BOLTING: - SLIP CRITICAL CONNECTIONS.	No	-	-
4	MATERIAL VERIFICATION OF STRUCTURAL STEEL COLD-FORMED STEEL DECK	No	-	-
5	MATERIAL VERIFICATION OF WELD FILLER MATERIALS.	No	-	-
6	COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	No	-	-
7	MULTI-PASS FILLET WELDS.	No	-	-
8	SINGLE-PASS FILLET WELDS > 5/16".	No		-
9	PLUG AND SLOT WELDS	No	-	-
10	SINGLE-PASS FILLET WELDS < 5/16".	No	-	-
11	FLOOR AND ROOF DECK WELDS.	No		-
12	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.	No	-	-
13	WELDING OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES	No	-	-
14	WELDING OF SHEAR REINFORCMENT	No	-	-
15	INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.	No	-	-
16	COLDFORM STEEL TRUSSES SPANNING GREATER THAN 60 FEET	No	-	-
1704.4 -	CONCRETE			
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	Yes	-	Х
2	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	No	-	-
3	INSPECTION OF CAST-IN-PLACE ANCHOR BOLTS.	Yes	х	-
4	INSPECTION OF POST INSTALLED ANCHORS	Yes	-	х
5	VERIFY USE OF REQUIRED DESIGN MIX.	Yes	-	X
6	SAMPLING SPECIMEN FOR TESTING	Yes	x	-
7	VERIFY CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Yes	x	-
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Yes	-	х
9	PRESTRESSED CONCRETE - APPLICATION OF PRESTRESSING FORCES AND GROUTING BONDED TENDONS	Yes	-	х
10	PRECAST CONCRETE - ERECTION OF MEMBERS.	Yes	-	х
11	POST TENSIONED CONCRETE - VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORESS AND FORMS FROM BEAMS AND STRUCTURAL SLAB.	Yes	-	х
12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Yes	-	Х
	- MASONRY LEVEL 1			
1	VERIFICATION OF fm.	No	-	-
2	VERIFICATION OF SLUMP FLOW	No	-	-
3	PROPORTION OF SITE-PREPARED MORTAR	No	-	-
4	CONSTRUCTION OF MORTAR JOINTS	No	-	-
5	LOCATION OF REINFORCEMENT	No	-	-
6	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	No	-	
7	TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO STRUCTURAL MEMBERS	No	-	-
8	TYPE, SIZE AND GRADE OF REINFORCEMENT AND ANCHOR BOLTS	No	-	-
9	WELDING OF REINFORCING BARS	No	-	-
10 11	COLD WEATHER CONSTRUCTION PRIOR TO GROUTING - CLEANING, REINFORCMENT	No No	-	-
	PLACEMENT, GROUT PROPOTION AND MORTAR JOINTS			
12	GROUT PLACEMENT PREPARATION OF GROUT AND MORTAR SPECIMEN FOR	No No	-	-
	TESTING	l	1	

	TYPE	DECLUBED	CONTINUOUS	DEDIODIO
2	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED	No	CONTINUOUS	PERIODIC
2	OR PREBLENDED MORTAR OR GROUT	NO	· ·	-
3	VERIFICATION OF SLUMP	No	-	
4	PROPORTION OF SITE-PREPARED MORTAR	No	-	-
5	PLACEMENT OF MASONRY UNIT AND CONSTRUCTION OF	No	-	-
	MORTAR JOINT			
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 MASONRY ANCHORAGE TO STRUCTUAL MEMBERS	No	-	-
11	TYPE, SIZE AND GRADE OF REINFORCMENT AND ANCHOR BOLTS	No		-
	WELDING OF REINFORCING BARS	No	-	-
13	COLD WEATHER CONSTRUCTION	No	-	-
14	PREPARATION OF GROUT AND MORTAR SPECIMENT FOR TESTING	No	-	-
1704.6 -				
1	FABRICATED LOAD BEARING ASSEMBLIES (TRUSSES/COMPOSITE i.JOISTS) CONDUCTED ON THE PREMISES OF THE FABRICATORS SHOP.	No	-	-
2	HIGH-LOAD DIAPHRAGMS	No	-	-
3	METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING	No	-	-
	GREATER THAN 60 FEET			
1704.7 -	SOIL			
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	No	-	-
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	No	-	-
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	No	-	
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	No	-	-
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	No	-	-
1704.8 -	DRIVEN DEEP FOUNDATION ELEMENTS			
1	VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	Yes	х	-
2	DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	Yes	x	-
3	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	Yes	х	-
4	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION LEUMENT.	Yes	х	
5	FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.3.	No	-	
6	FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	No	-	-
7	FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	No	-	
1704.9 -	CAST-IN-PLACE DEEP FOUNDATION ELEMENTS	•	•	
1	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	No	-	-
2	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	No	-	•
3	FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	No	-	-
	VEB STEEL JOIST AND GIRDER			
OPEN-V	INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST	No		



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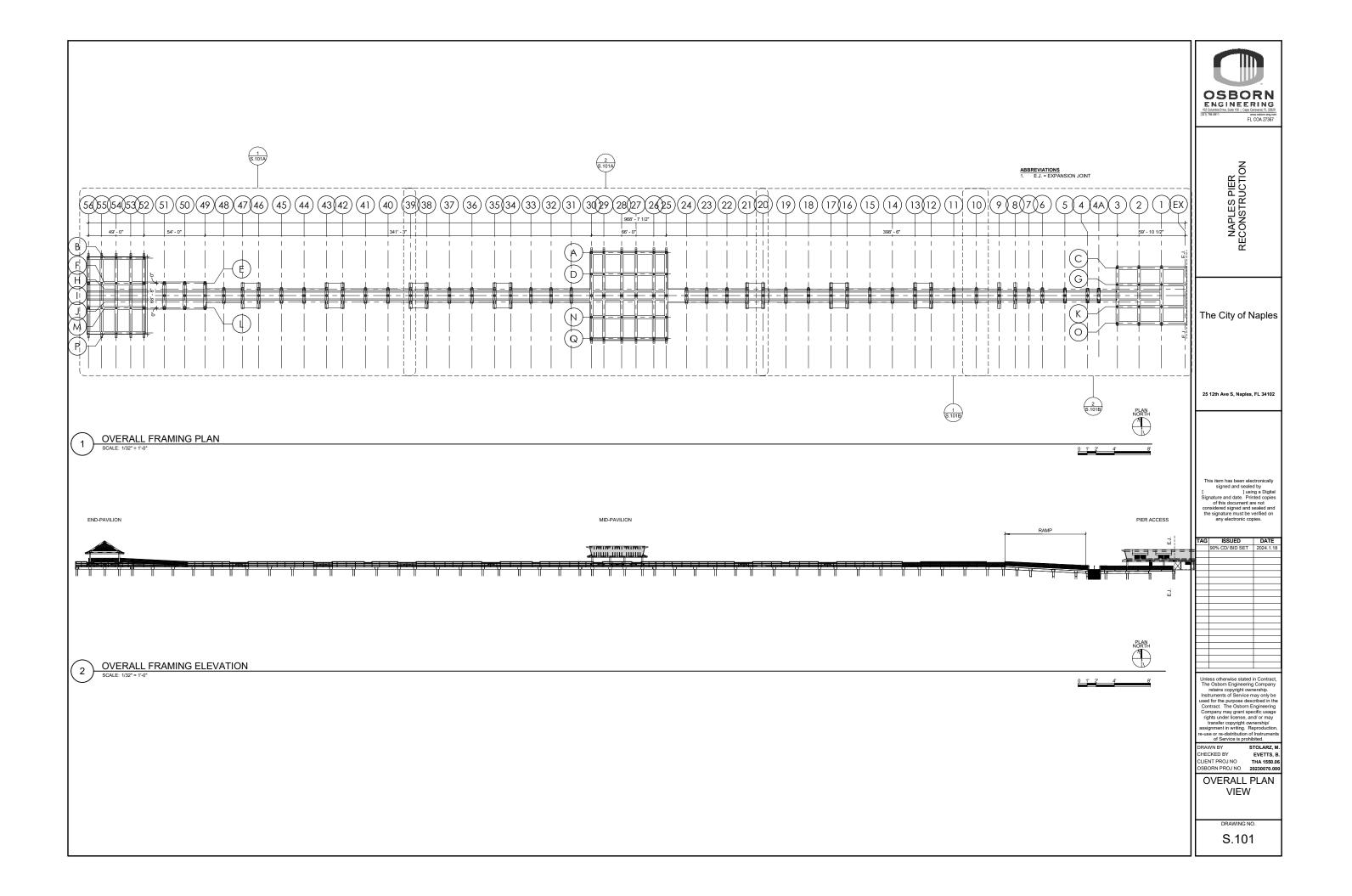
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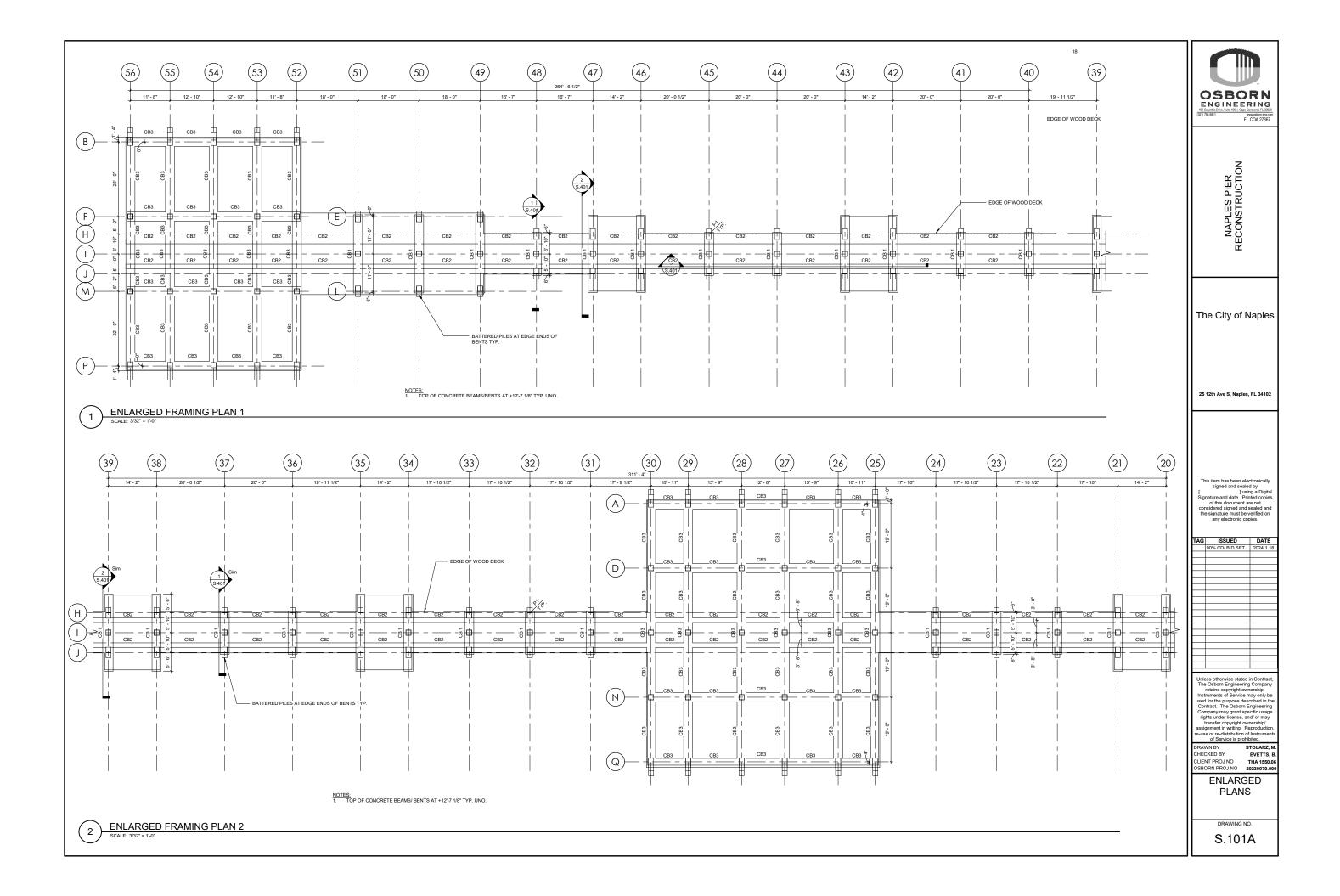
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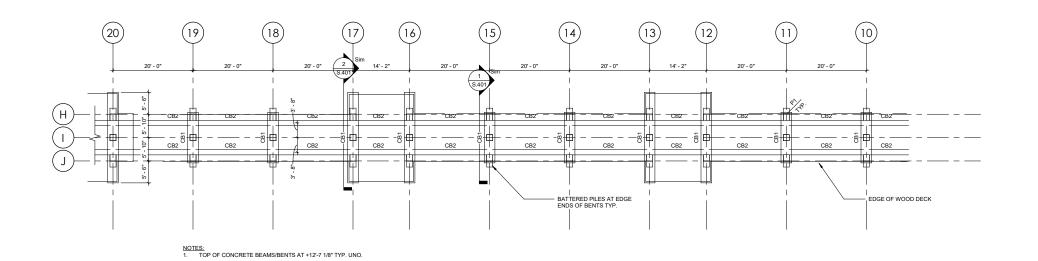
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INSPECTIONS

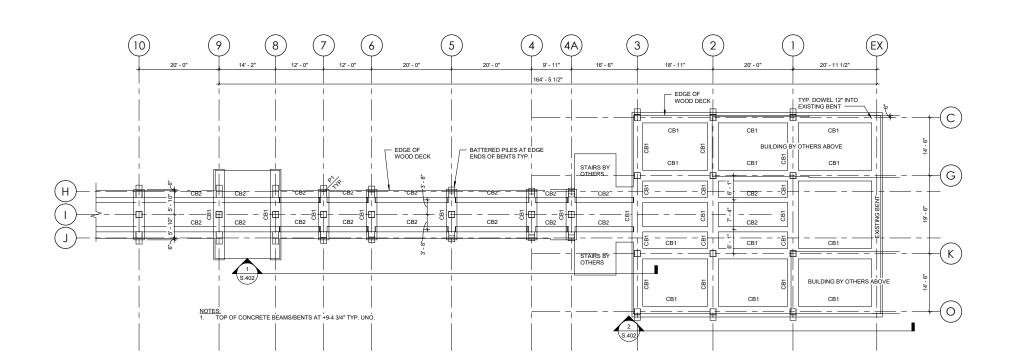
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ENLARGED FRAMING PLAN 3
SCALE: 3/32" = 1"-0"



ENLARGED FRAMING PLAN 4

SCALE: 3/32" = 1¹-0"

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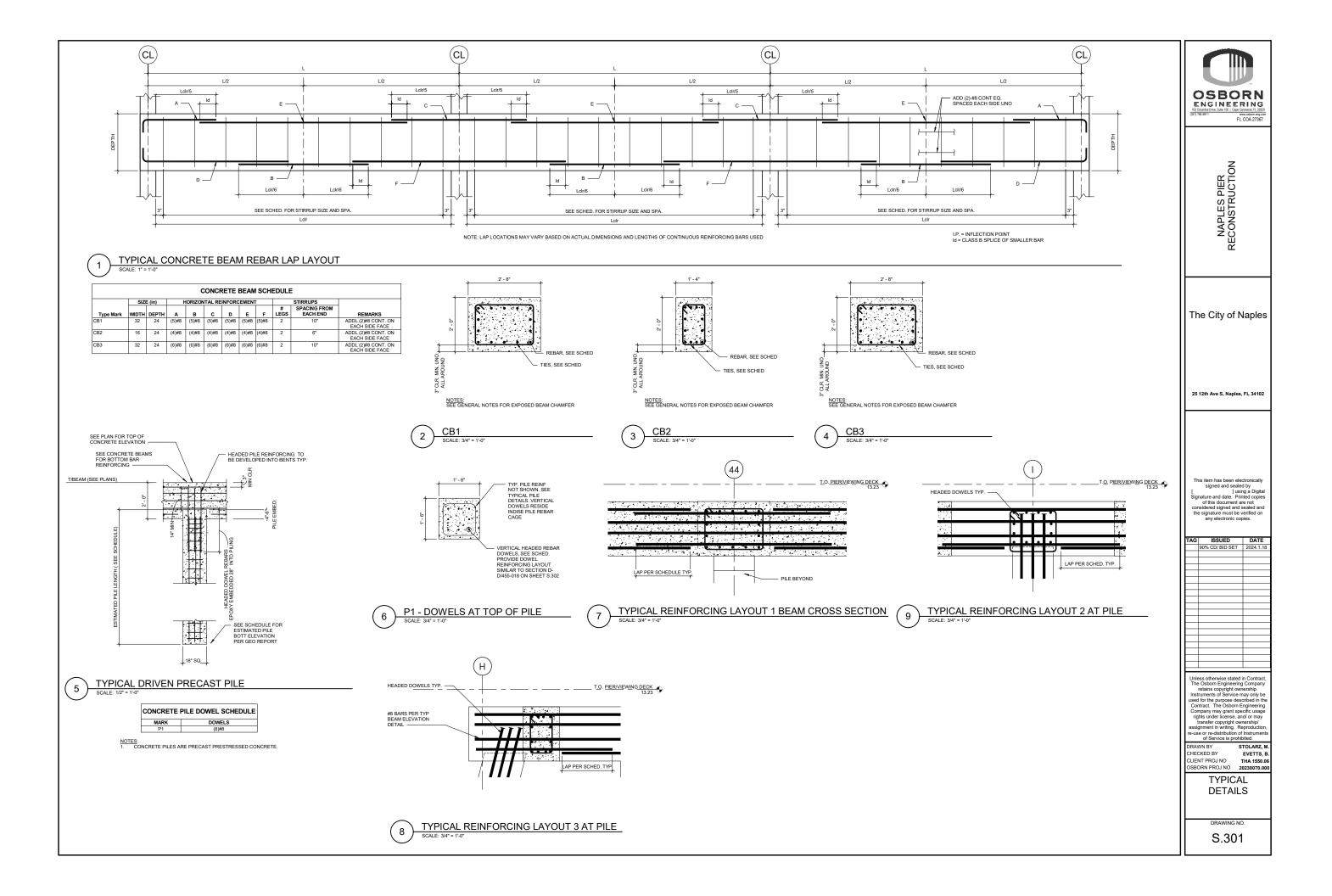
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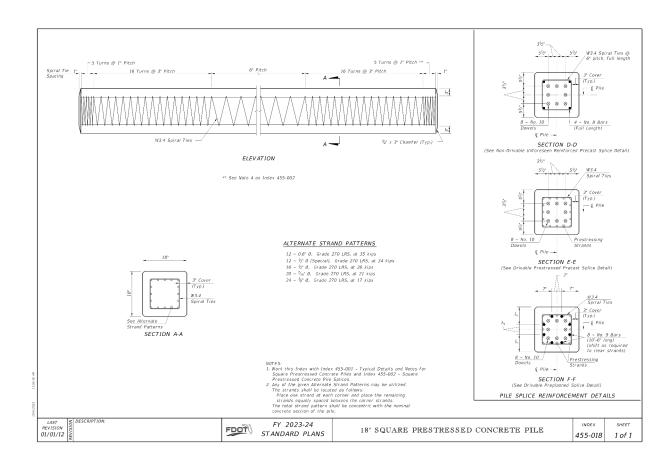
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CHECKED BY EVETTS, B.
CLIENT PROJ NO THA 1550.06
OSBORN PROJ NO 20230070.000

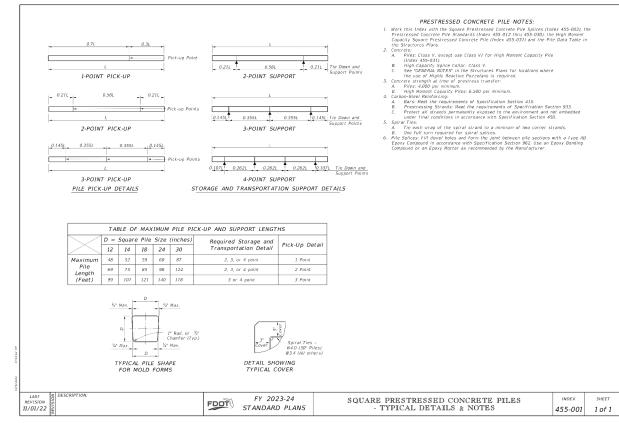
ENLARGED PLANS

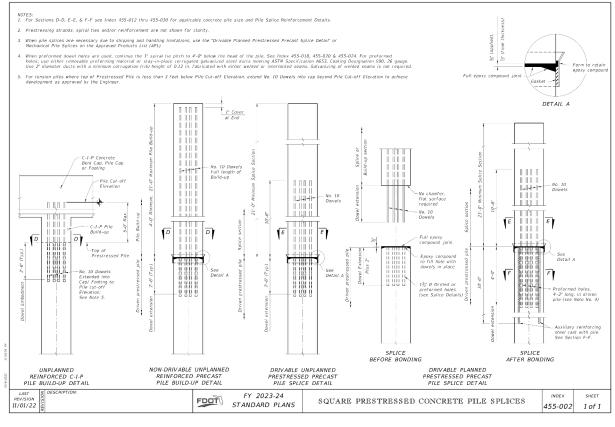
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S.101B











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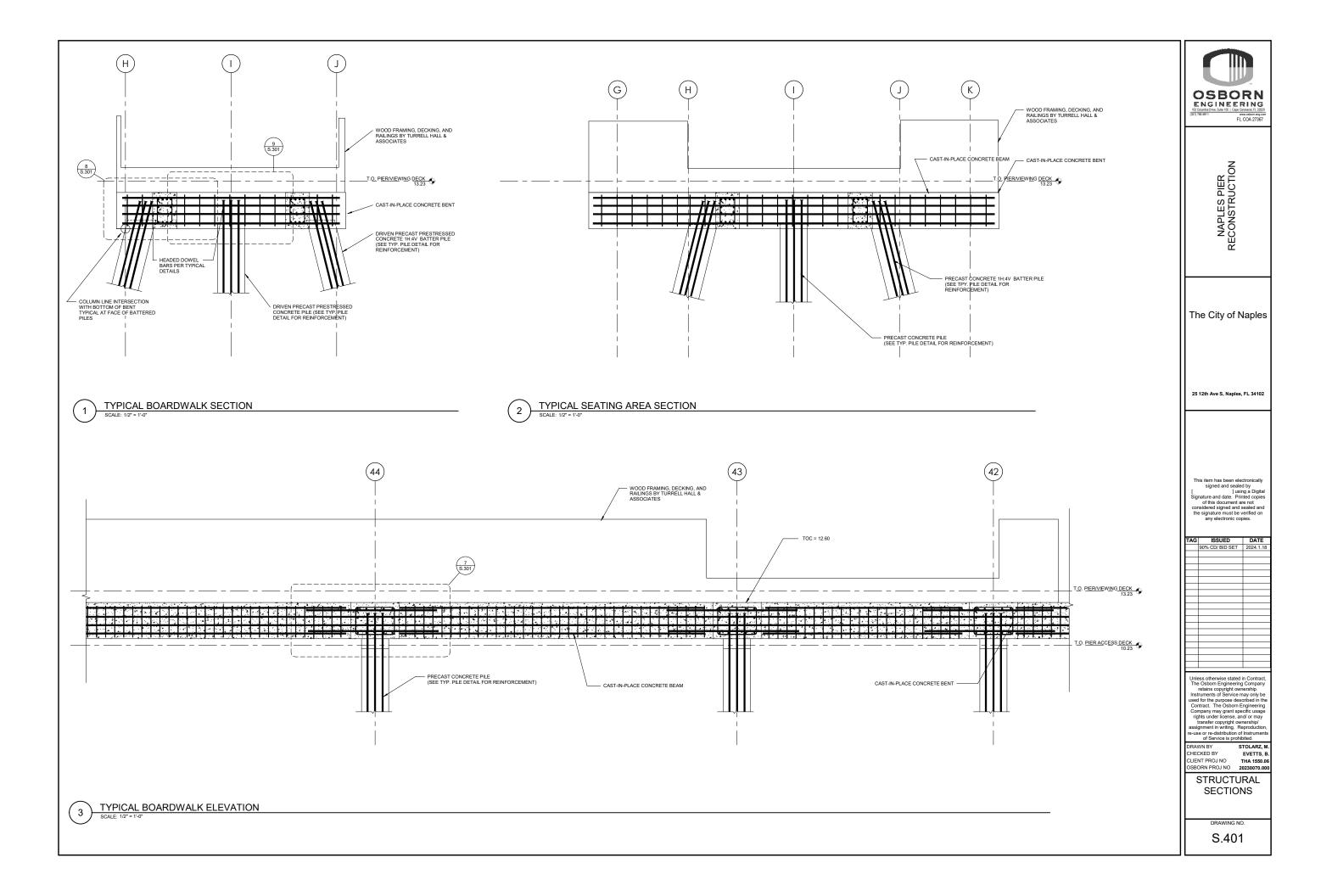
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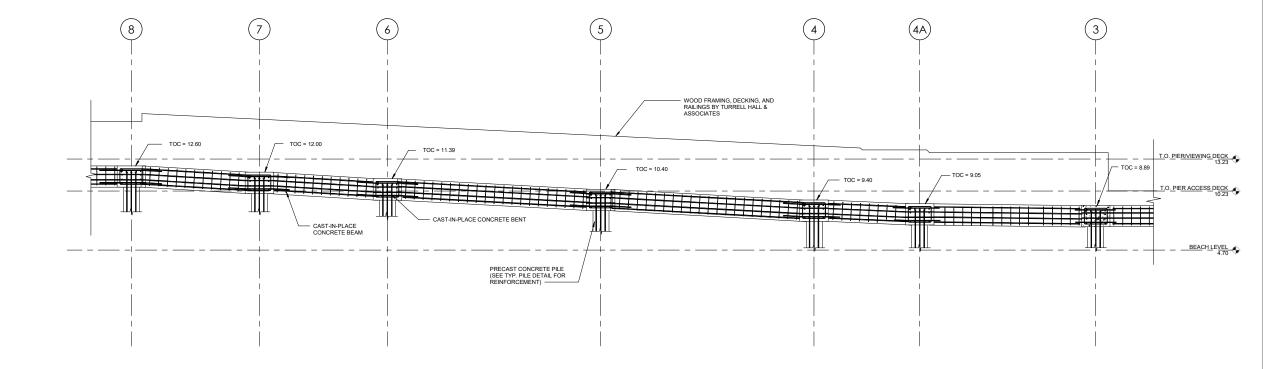
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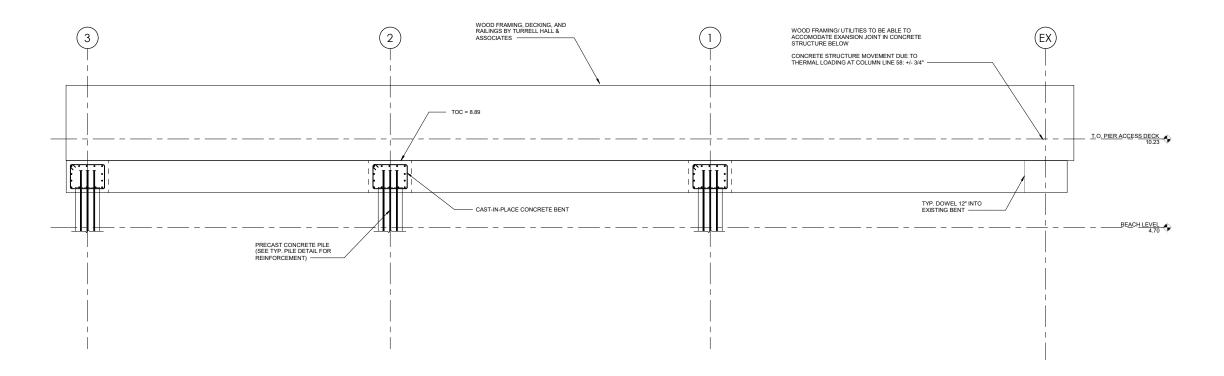
PRESTRESSED CONCRETE PILE TYPICAL DETAILS

> DRAWING NO. S.302





PIER ACCESS RAMP TO BOARDWALK ELEVATION



PIER ACCESS SOUTH ELEVATION

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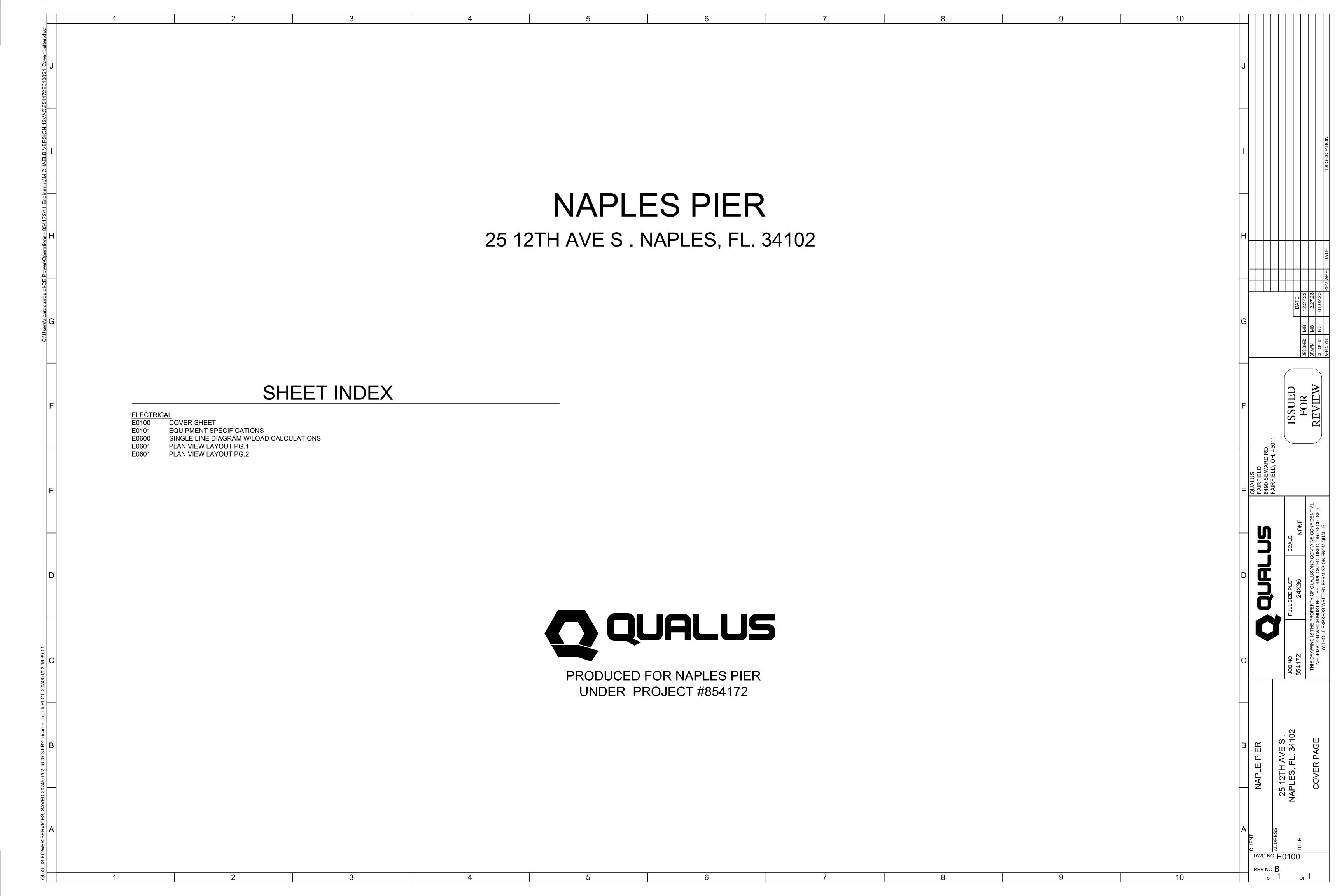
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STRUCTURAL SECTIONS

DRAWING NO.

S.402



EQUIPMENT SPECIFICATION

DECK LIGHTING:

Volt Electrical Deck LedLight or Approved Equivalent

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

·Size: $3\frac{3}{8}$ " Diameter

·Count: 318 Unit.

·Input Voltage/Frequency: 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/Frequency: 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

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

·Count: 4 Unit.

Input Voltage/Frequency: 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: 4 unit.

Dimensional Footprint: 18"X10"X8".

·Equipment Specifications:

- o UL LISTED, NEMA 4X Suitable for coastal environments per IEEE C57.12.29.
- o White Powder Coat Finish, 316L Stainless Steel.
- o 120 V/12-22V, 900W, 60Hz Frequency.

PANEL BOARD #1

·Location: Restroom Building.

·Count: One Unit.

Dimensional Footprint: To be defined by manufacturer.

Equipment Specifications.

- O UL LISTED, NEMA 4X Suitable for coastal environments per IEEE C57.12.29.
- O White Powder Coat Finish, 316L Stainless Steel.
- o 240/120 V 4W, 60Hz Frequency.

PANEL BOARD #2

·Location: Middle Pavilion

·Count: One Unit.

Dimensional Footprint: To be defined by manufacturer.

·Equipment Specifications.

- O UL LISTED, NEMA 4X Suitable for coastal environments per IEEE C57.12.29.
- O White Powder Coat Finish, 316L Stainless Steel.
- o 240/120 V 4W, 60Hz Frequency.

RECEPTACLES:

Marina Electrical Equipment or Approved Equivalent

Model: Duplex water resistant GFCI Outdoor

·Size: Standard Duplex size

·Count: 12 Unit.

Input Voltage/Frequency: 125 VAC/60Hz

Input Current: 20 A

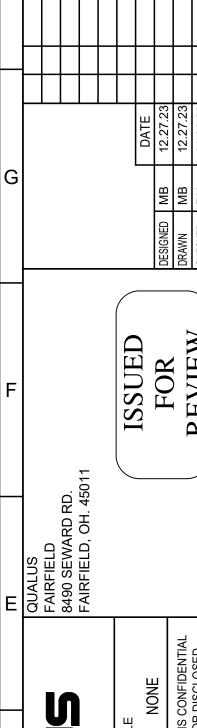
Installation Details: Transformers/Panel Board

Shall Be Installed with 316 S/S Fastenings and an Isolation Pad Between the

Unit and the Mounting Surface.

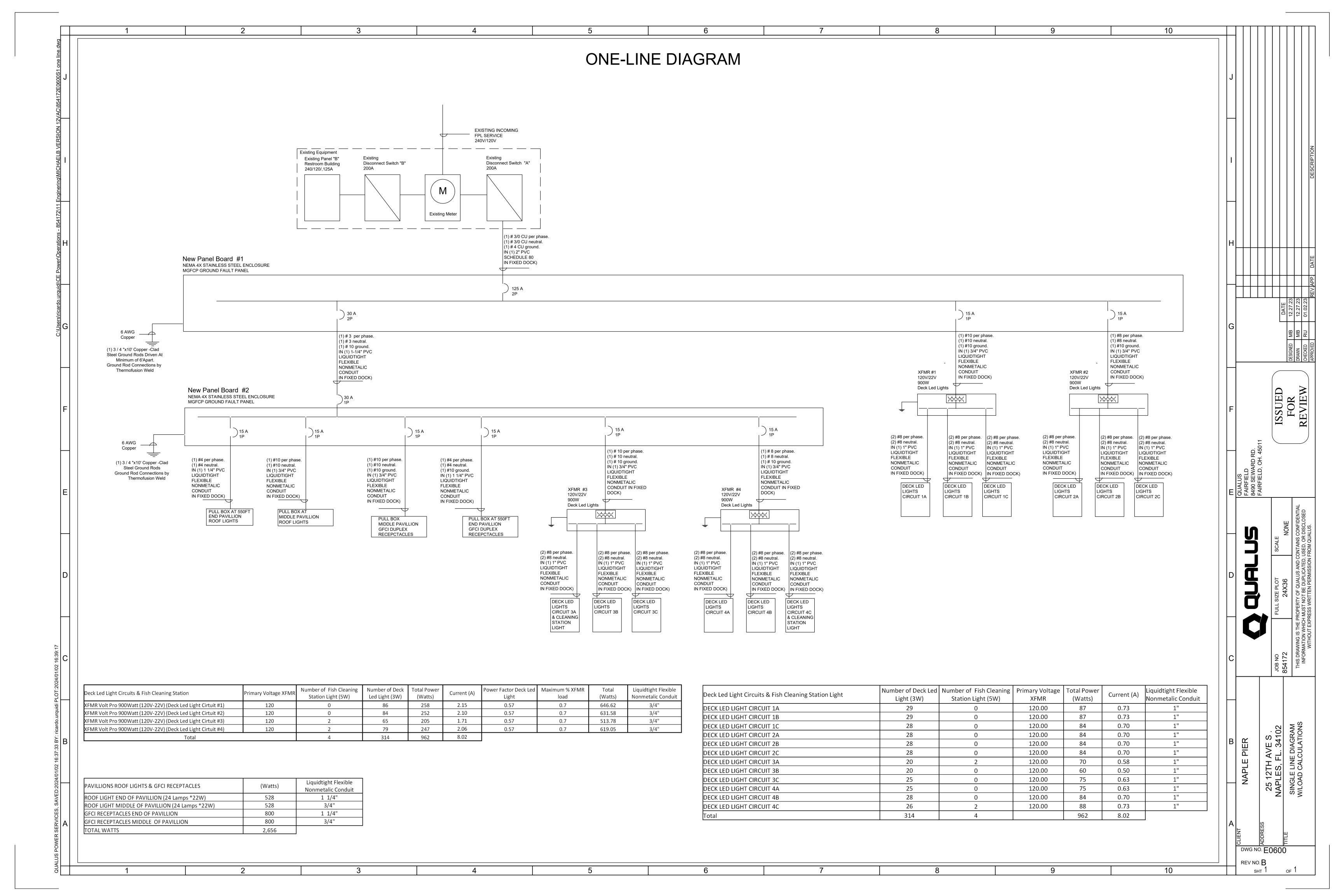
Unit shall be mounted 30 in above the water level at the floating pier or boat

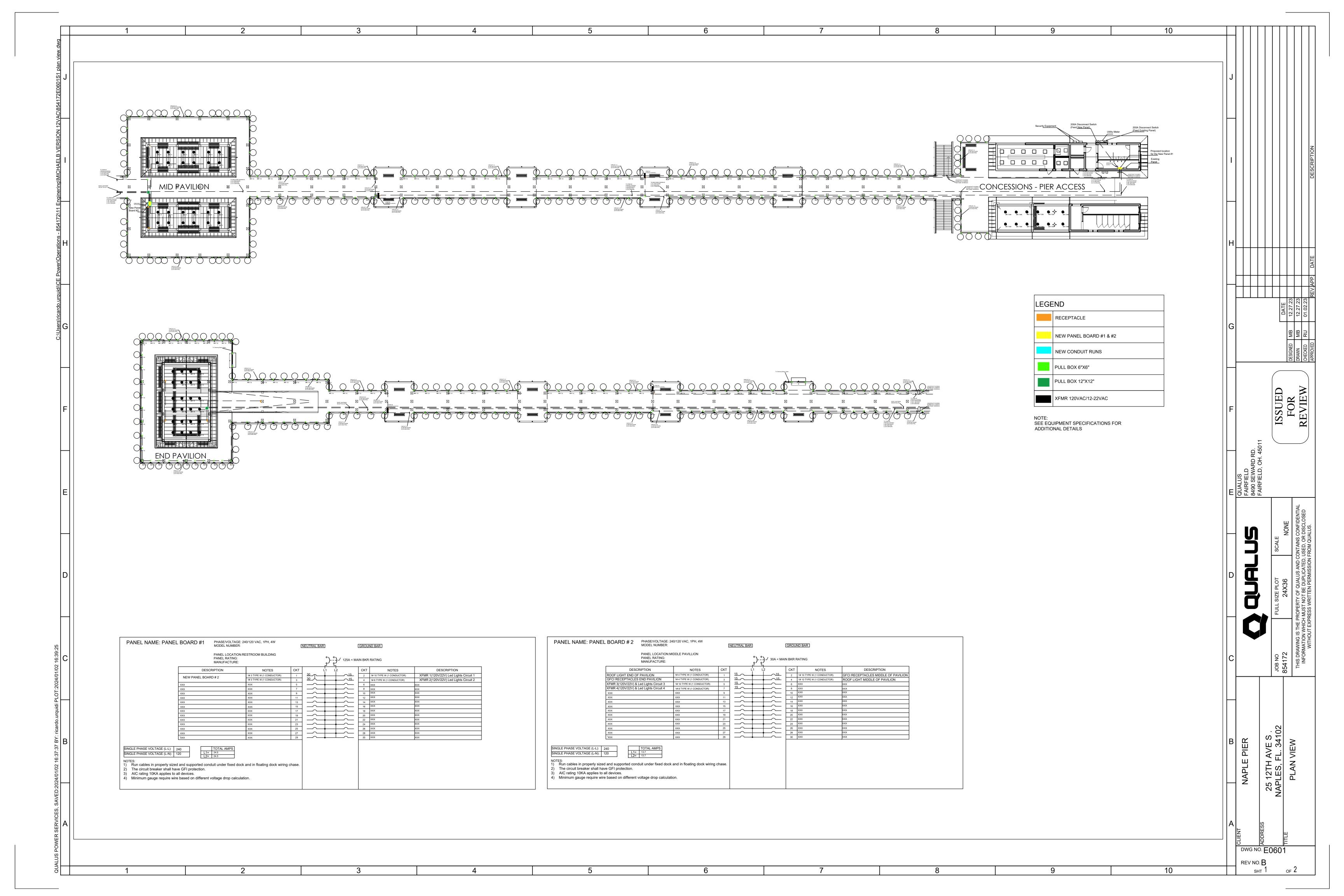
landing stage and a minimum 12 in above the level of the deck.

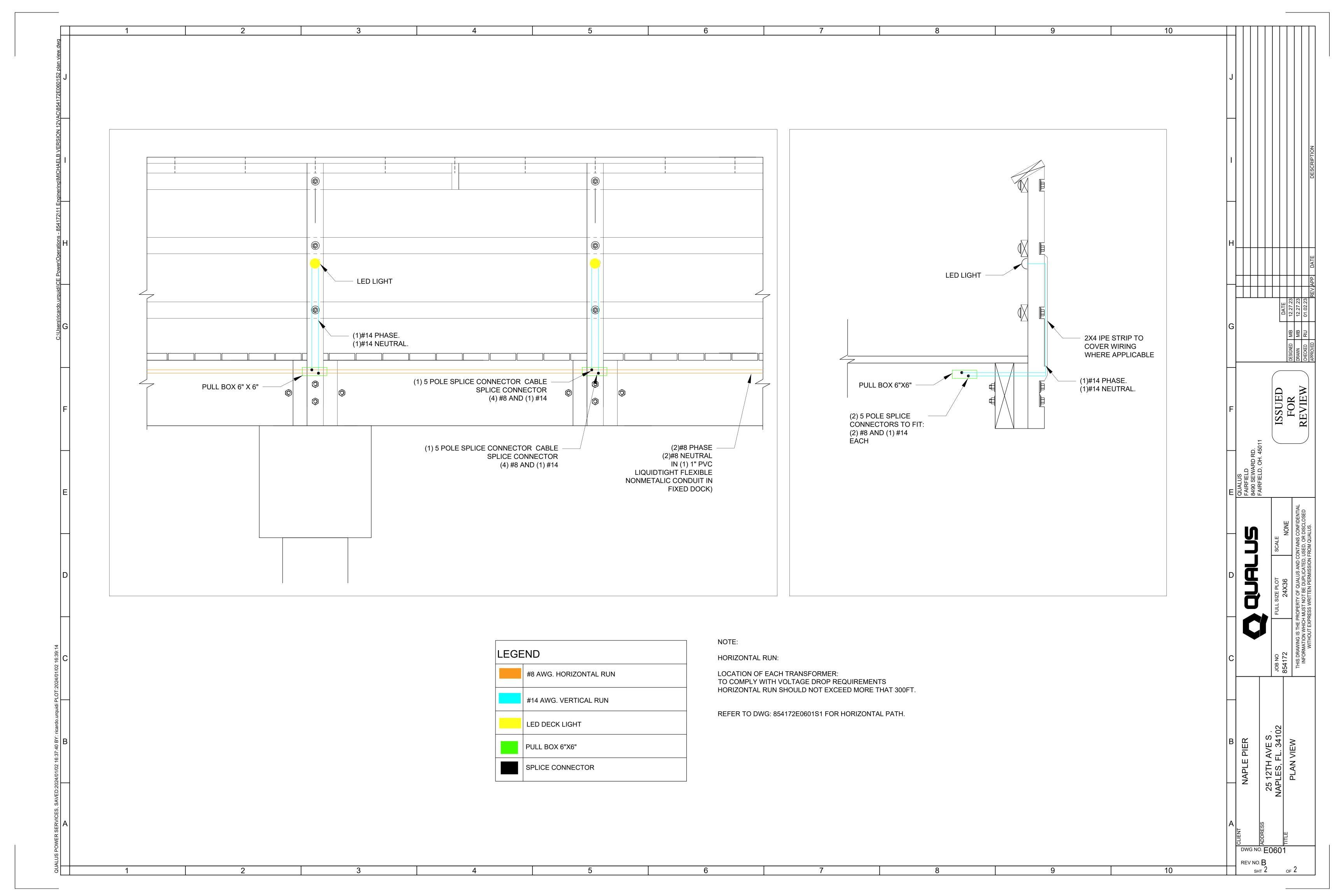


DWG NO. E0101

REV NO. B









NAPLES PIER RECONSTRUCTION

25 12th Ave S., Naples FL 34102

TURRELL, HALL & ASSOCIATES, INC.

MARINE & ENVIRONMENTAL CONSULTING

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MHK ARCHITECTURE

ARCHITECTS MAUREEN MINKER 2059 TAMIAMI TRAIL EAST

NAPLES FL 34112 EMAIL: MMINKER@MHKARCHITECTURE.COM

HUMISTON AND MOORE **ENGINEERS**

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NOVA

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OSBORN ENGINEERING

STRUCTURAL ENGINEERING BYRON EVETTS, P.E. MATT FURJANIC, P.E. REYNALDO BUENCAMINO, P.E. AARON LOBAS **HEADQUARTERS:**

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QUALUS

ELECTRICAL ENGINEERING NICK YONNONE

SETH KRAVETZ DAVID MINSHALL **ROBERT BORDAS HEADQUARTERS:** 8490 SEWARD RD. FAIRFIELD, OH 45011 **REGIONAL OFFICE:**

100 COLONIAL CENTER PKWY, STE 400, LAKE MARY FL 32746 TEL: (904)891-4943 EMAIL: NICK.YONNONE@QUALUSCORP.COM

SELECT STRUCTURAL STRUCTURAL ENGINEERING

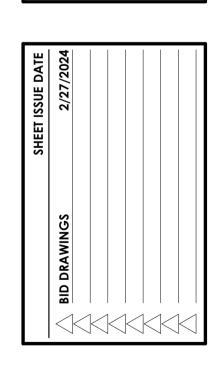
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PR NO 23118



COVER SHEET

PHASE

AFF ABOVE FINISHED EF EACH FACE FΔST ELEC ELECTRIC (AL) EP ELECTRIC PANELBOARD COOLER EL ELEVATION ELEV ELEVATOR **EMER EMERGENCY**

EWC ELECTRIC WATER EQ EQUAL EST ESTIMATE **EXCA EXCAVATE** EXH EXHAUST EXTG EXISTING EXP EXPOSED

EB EXPANSION BOLT EXT EXTERIOR EXS EXTRA STRONG FB FACE BRICK **FOC FACE OF CONCRETE** FOF FACE OF FINISH FOM FACE OF MASONRY FOS FACE OF STUDS

MAS MASONRY MO MASONRY OPENING MTL MATERIAL (S) FF FACTORY FINISH MAX MAXIMUM FAS FASTEN, FASTENER MECH MECHANIC (AL) FBD FIBERBOARD MC MEDICINE FGL FIBERGLASS CABINET FIN FINISH (ED) MED MEDIUM FFE FINISHED FLOOR MBR MEMBER **ELEVATION** MMB MEMBRANE FFL FINISHED FLOOR LINE MET METAL FA FIRE ALARM M METER (S) FBRK FIRE BRICK MM MILLIMETER (S) MIN MINIMUM

KIT KITCHEN

LBL LABEL

KO KNOCKOUT

LAB LABORATORY

LAM LAMINATE (ED)

LW LIGHTWEIGHT

LWC LIGHTWEIGHT

LB LAG BOLT

LAV LAVATORY

LH LEFT HAND

L LENGTH

LT LIGHT

CONCRETE

LTL LINTEL

LVR LOUVER

LMS LIMESTONE

LL LIVE LOAD

LPT LOW POINT

MH MANHOLE

MFR MANUFACTURE

RAD RADIUS

RDWD REDWOOD

REF REFERENCE

REG REGISTER

REFR REFRIGERATOI

REINF REINFORCE (D)

RCP REINFORCED

RESIL RESILIENT

RA RETURN AIR

REV REVISION (S),

RH RIGHT HAND

RD ROOF DRAIN

ROOM

SFGL SAFETY GLASS

SEATING

SECTION

DRAWINGS

SHEET GLASS

SIMILAR

SLDC SOLDIER COURSE

SOUNDPROOF

SPEC SPECIFICATION (S

STAINLESS STEEL

STORM DRAIN

STRUCT STRUCTURAL

SCT STRUCTURAL CLAY

THICK (NESS)

TOILET PARTITION

TOP OF GRADE

TOP OF PAVEMEN

THRESHOLD

DISPENSER

TOL TOLERANCE

T&G TONGUE &

TC TOP OF CURB

TSL TOP OF SLAB

TREAD

UNFIN UNFINISHED

VB VAPOR BARRIER

VINYL

TYP TYPICAL

UR URINAL

VAR VARNISH

VNR VENEER

TOP OF STEE

TOWEL BAR

TBD TO BE DETERMINED

VERIFY IN FIELD

WALL HUNG

WATER HEATER

WATERSTOP

WIDTH, WIDE

WDW WINDOW

W/O WITHOUT

WD

FIRST FLOOR

ELEVATION MARKER

1 Ref_←

A101

ي < 1 ما ۱۵ ما ۲ > ي

WG WIRED GLASS

WOOD

WI WROUGHT IRON

WOOD BASE

WPT WORKING POINT

NORTH ARROW

EXTERIOR

NUMBER

SHEET

NUMBER

INTERIOR

NUMBER

NUMBER

SHEET

WM WIRE MESH

WATERPROOFING

GROOVE

SQUARE

STD STANDARD

STA STATION

STL STEEL

SYS SYSTEM

TEL TELEPHONE

TV TELEVISION

SC SOLID CORE

SOUTH

SPK SPEAKER

SPL SPECIAL

SHTG SHEATHING

SHEET

SEE STRUCTURAL

SHELF, SHELVING

SCHEDULE

ROUGH SAWN

RISER

RFG ROOFING

RLK ROWLOCK

SCN SCREEN

ROW RIGHT OF WAY

RET RETURN

REVISED

RSC

SCH

STG

SECT

SSD

SHT

SIM

SQ

SD

CEDAR

CONCRETE PIPE

FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER MIR MIRROR CABINET MISC MISCELLANEOUS **FHS FIRE HOSE STATION** MOD MODULAR FPL FIREPLACE MLD MOLDING FP FIREPROOF MOULDING FRT FIRE-RETARDANT MR MOP RECEPTOR FLG FLASHING MT MOUNT (ED), FLX FLEXIBLE FLR FLOOR (ING) MOV MOVABLE FLCO FLOOR CLEANOUT **MULL MULLION** FD FLOOR DRAIN NAT NATURAL

FPL FLOOR PLATE NRC NOISE REDUCTION STOR STORAGE FLUR FLUORESCENT COEFFICIEANT FTG FOOTING NOM NOMINAL FND FOUNDATION NMT NONMETALIC FR FRAME (D), (ING) N NORTH FRA FREASH AIR NIC NOT IN CONTRACT SUSP SUSPENDED FS FULL SIZE NTS NOT TO SCALE FBO FURNISHED BY OC ON CENTER (S) OPG OPENING FUR FURRED (ING) OPP OPPOSITE OPH OPPOSITE HAND GA GAGE, GAUGE OPS OPPOSITE SURFACE TPTN OD OUTSIDE DIAMETER TPD TOILET PAPER

GALV GALVANIZED GI GALVANIZED IRON OA OVERALL GP GALVANIZED PIPE OH OVERHEAD **GSS GALVANIZED STEEL SHEET** GC GENERAL CONTRACTOR PNT PAINT (ED) PNL PANEL GL GLASS, GLAZING PB PANIC BAR GLB GLASS BLOCK PTD PEPER TOWEL GLF GLASS FIBER PTR PAPER TOWE GD GRADE, GRADING GVL GRAVEL

HBD HARDBOARD

HWD HARDWOOD

HC HOLLLOW CORE

HM HOLLOW META

INCIN INCINERATOR

ID INSIDE DIAMETER

INCL INCLUDE (D), (ING)

HOR HORIZONTAL

HB HOSE BIBB

HTG HEATING

HT HEIGHT

JST JOIST

(100)

HVAC

OTHERS

RECEPTOR PAR PARALLEL PK PARKING PBD PARTICLE BOARD PTN PARTITION PV PAVE (D), (ING) **PVMT PAVEMENT** PED PEDESTAL PERF PERFORATE (D) PERI PERIMETER HEATING/VENTILATING/ PLAS PLASTER AIR CONDITIONING P.L. PLASTIC LAMINATE VERT VERTICAL

PL PLATE VG VERTICAL GRAIN PG PLATE GLASS VIF PW PLWOOD VIN PT POINT VB VINYL BASE VT VINYL TILE PVC POLYVINYL CHLORIDE WSCT WAINSCOT PTC POST-TENSIONED WTW WALL TO WALL CONCRETE PCF POUNDS PER CUBIC PLF POUNDS PER LINEAL WC WATER CLOSET

DISPENSER

INSUL INSULATE (D), INT INTERIOR INTM INTERMEDIATE PSF POUNDS PER SQUAREWS INV INVERT PSI POUNDS PER SQUAREWWF WELDED WIRE INCH IP IRON PIPE IPS IRON PIPE SIZE INCH PCC PRECAST CONCRETEW JC JANITOR'S CLOSET PFB PREFABRICATE (D) JT JOINT

JF JOINT FILLER PFN PREFINISHED PSC PRESTRESSED CONCRETE PL PROPERTY LINE QT QUARRY TILE

NUMBER

NUMBER

NUMBER

NUMBER

SHEET

REVISION CLOUD

REVISION NUMBER

1 → KEYNOTE TAG

WALL TAG

DOOR TAG

WINDOW TAG

GENERAL NOTES:

PLUGGED, OR CAPPED, AS REQUIRED BY CODE.

. 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,

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

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

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

AS PRESENTED HEREIN OR ON THE DRAWINGS AND AT NO COST TO THE THE OWNER.

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.

MATERIALS, SYSTEMS, FINISHES, EQUIPMENT, AND SURFACES.

4. REMOVE LABELS, CLEAN GLASS SURFACES, AND DUST AND WIPE CLEAN ALL PRODUCTS,

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.

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 PES 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.

2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS 3. 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.

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

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. s. 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.

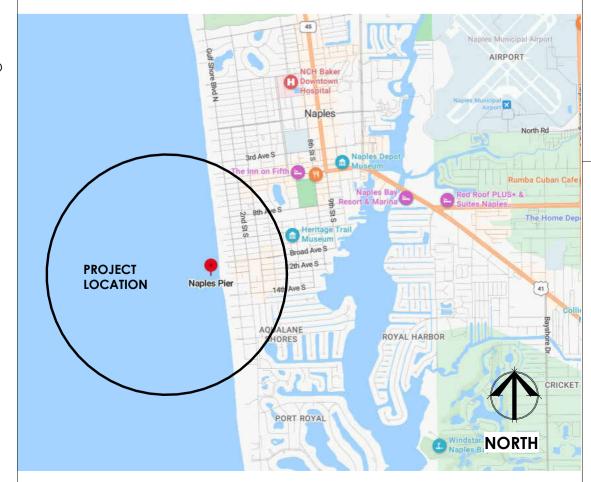
MATERIAL LEGEND:

GRAVEL

	BRICK	4	STRUCTURAL CONCRETE	1,73,35,47 2,54,72,47 1,73,35,47,4	GYP. BD.
	STEEL		CERAMIC TILE		LUMBER
	RIGID INSULATION		ALUMINUM		BLOCKING
	EARTH		PLYWOOD		FINSH WO
	UNDISTURBED EARTH		SHINGLES	# #	GLASS

SIDING

PROJECT LOCATION MAP:



CODE ANALYSIS: FBC 8TH ED 2023: FEMA INFORMATION

APPLICABLE CODES

- CITY OF NAPLES MUNICIPAL CODE - FLORIDA BUILDING CODE 8TH EDITION (2023)

- FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023) - FLORIDA BUILDING CODE / ACCESIBILITY 8TH EDITION (2023) - FLORIDA MECHANICAL CODE 8TH EDITION (2023)

- FLORIDA PLUMBING CODE 8TH EDITION (2023 - FLORIDA ENERGY CONSERVATION CODE 8TH EDITION (2023) - NATIONAL ELECTRIC CODE (2020)

SITE ADDRESS: 25 12TH AVENUE SOUTH, NAPLES FL 34102

ZONING: **EXISTING R1-15 / NO CHANGES**

FEMA FLOOD ZONE: VE 11 (2019) (CONCESSIONS) VE 13 (2019) (MID-PAVILION & END PAVILION)

OCCUPANCY: ASSEMBLY A5

TYPE IV (HEAVY TIMBER) / TYPE III B UNPROTECTED BUILDING TYPE

NON-SPRINKLED SPRINKLER

TOTAL OCCUPANT LOAD CALCULATION

(PER FBC 2023 TABLE 1004.5, NFPA 7.3.1.2

CONCESSIONS (KITCHEN)	509 SF	(200 GROSS)	3 PERSONS
CONCESSIONS (STORAGE)	60 SF	(300 GROSS)	1 PERSON
CONCESSIONS (WAITING)	294 SF	(5 NET)	59 PERSONS
CONCESSIONS (DINING)	643 SF	(15 NET)	43 PERSONS
PIER STORAGE	65 SF	(300 GROSS)	1 PERSON
MEN'S RESTROOMS	613 SF	(50 GROSS)	13 PERSONS
WOMEN'S RESTROOM	613 SF	(50 GROSS)	13 PERSONS
SHOWERS	306 SF	(5 NET)	62 PERSONS
END PAVILION / DECK	3464 SF	(5 NET)	693 PERSONS
MID PAVILION 1 / DECK 1	2245 SF	(5 NET)	449 PERSONS
MID PAVILION 2 / DECK 2	2245 SF	(5 NET)	449 PERSONS
BUMPOUTS (16)	<u>81 SF</u>	(5 NET) (16)	260 PERSONS
		TOTAL	2,046 ALLOWED

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" <u>CORRIDOR WIDTH</u>

(PER FBC 2023 TABLE 1020.3) MINIMUM ALLOWED = 44"

MINIMUM ALLOWED W/OCCUP. LOAD LESS THAN 50 = 36" PROPOSED 12' = 144" (PIER) CORRIDOR

(PER FBC 2023 TABLE 1020.5) ALLOWED 20' PROPOSED N/A <u>NUMBER OF EXITS</u> (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 .34 ACRES, 15.000 SF (CODE, MINIMUM)

CMU

<u>SETBACKS</u>

FRONT: SIDE: 10 FEET SIDE: 10 FEET

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

MINIMUM PARKING: NO CHANGE LOT COVERAGE:

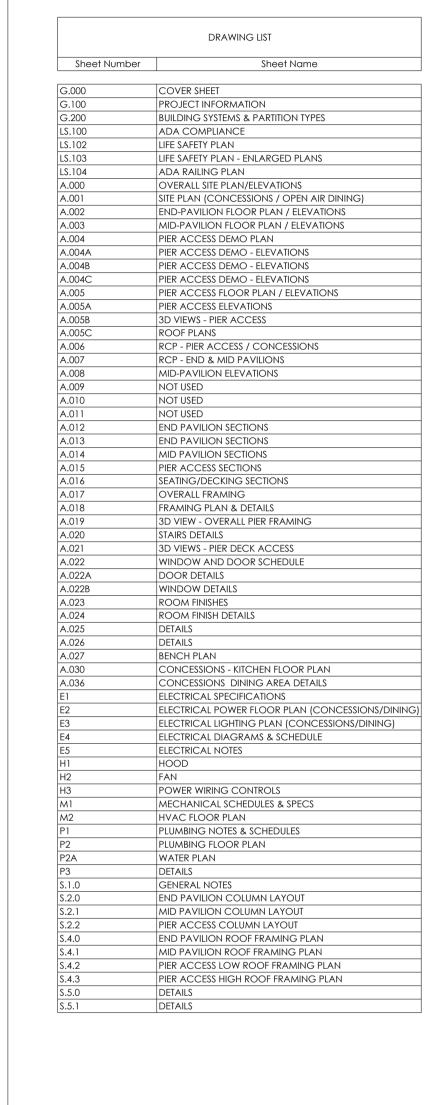
FIRM #:12021C **DATED 2019**

BASE FLOOD ELEVATION:

11' NAVD (2019) (MID & END PAVILIONS) 13' NAVD (2019) (CONCESSIONS)

DESIGN FLOOD ELEVATION: (CONCESSIONS) 12' NAVD (2019) (MID & END PAVILIONS) 14' NAVD(2019)

DRAWING INDEX:



PROJECT DESIGN TEAM:

MARINE & ENVIRONMENTAL CONSULTING TURRELL, HALL & ASSOCIATES, INC. CONTACT: TODD T. TURRELL PHONE: (239)643-0166 EMAIL: TUNE@THANAPLES.COM

MHK ARCHITECTURE & PLANNING CONTACT: MAUREEN MINKER PHONE: (239) 777-7118 EMAIL: MMINKER@MHKARCHITECTURE.COM

CONSULTING COASTAL ENGINEERS **HUMISTON AND MOORE ENGINEERS** CONTACT: MARC J. DAMON PHONE: (239) 594-2021 EMAIL: MDAMON@HUMISTONANDMOORE.COM

GEOTECHNICAL ENGINEERING CONTACT: ANDY ALBERDI PHONE: (813) 623-3100 EMAIL: AALBERDI@USANOVA.COM

STRUCTURAL ENGINEERING (BELOW DECKING) **OSBORN ENGINEERING CONTACT: BYRON EVETTS** PHONE: (321) 328-0570 EMAIL: BEVETTS@OSBORN-ENG.COM

EMAIL: NICK.YONNONE@QUALUSCORP.COM

ELECTRICAL ENGINEERING (PIER) CONTACT: NICK YONNONE

PHONE: (904) 891-4943

<u>STRUCTURAL ENGINEERING (ABOVE DECKING</u> SELECT STRUCTURAL **CONTACT: SHAWN ANDERSON** PHONE: (239) 210-5090 EMAIL: SHAWN@SELECTSTRUCTURAL.COM

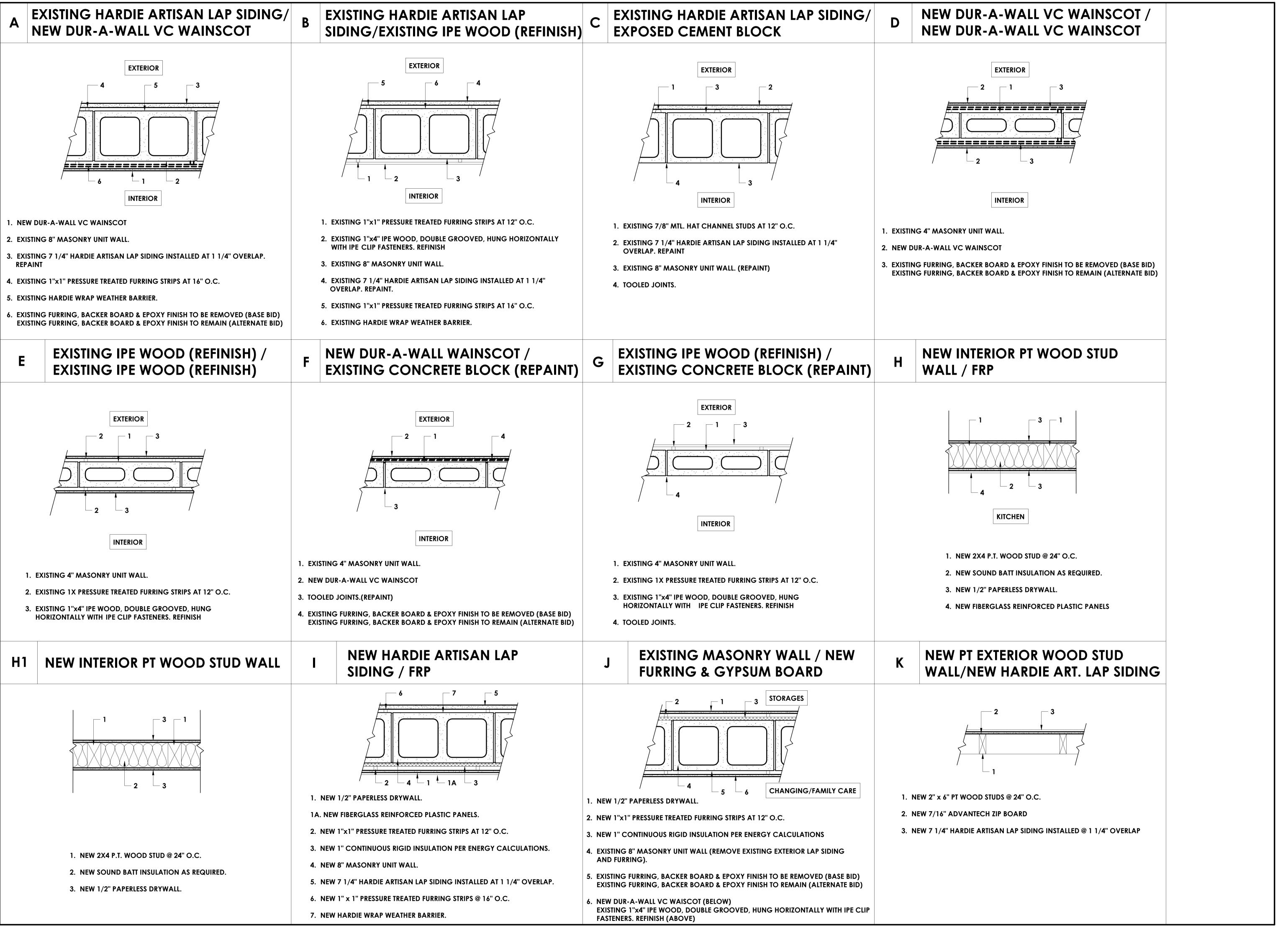
MECHANICAL, ELECTRICAL & PLUMBING **ENGINEERING & REPRESENTATION (BUILDING)** NPS CONSULTING **CONTACT: NICHOLAS STEWART** PHONE: (239) 677-3004 EMAIL: NICK@NPSCONSULTINGLLC.COM

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SHEET ISSUE DATE
BID DRAWINGS 2/27/2024

BUILDING SYSTEMS & PARTITION TYPES

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G.200

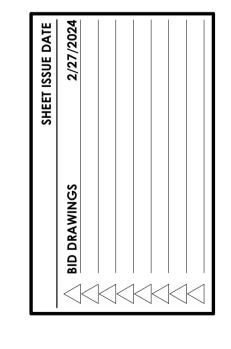
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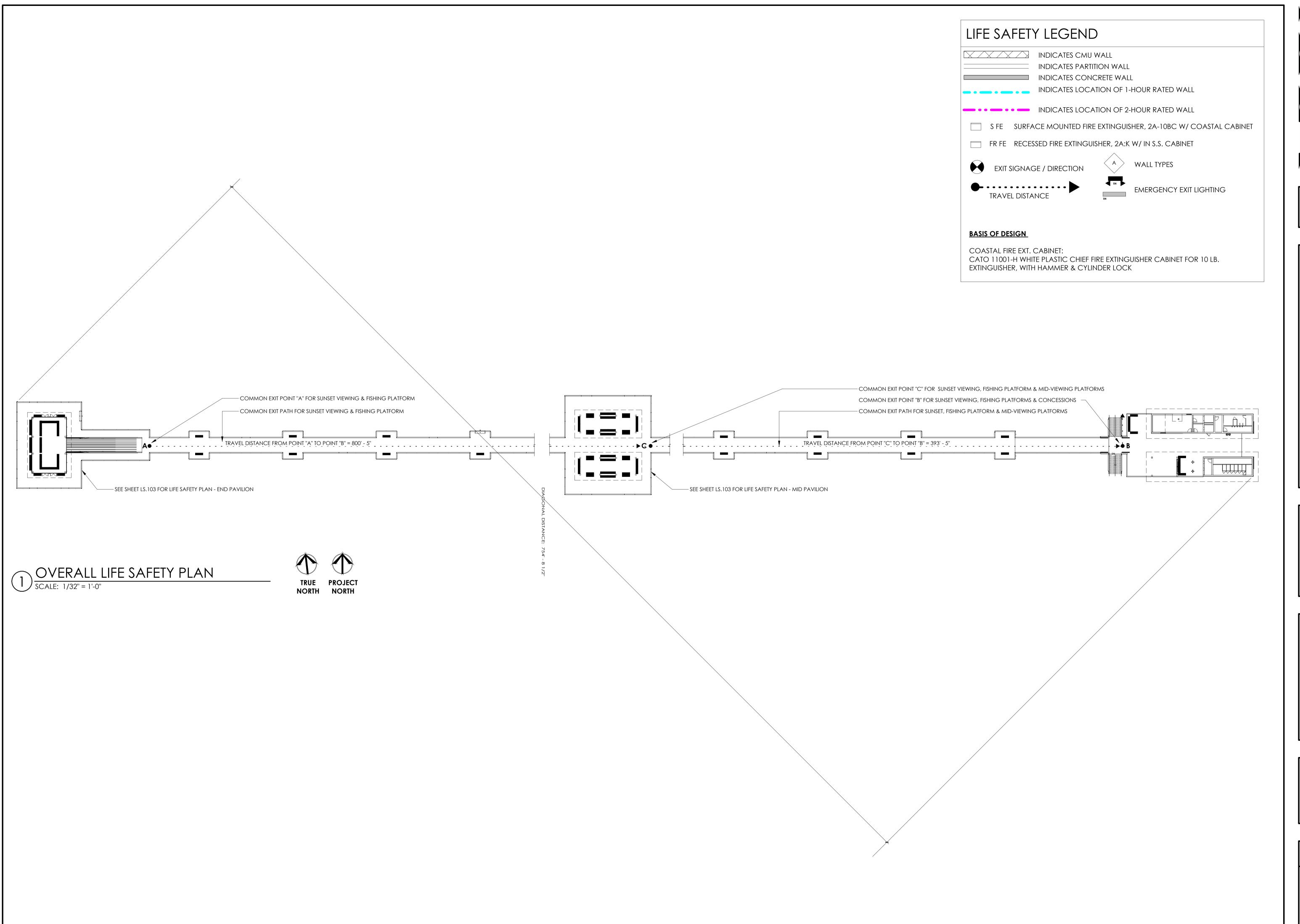
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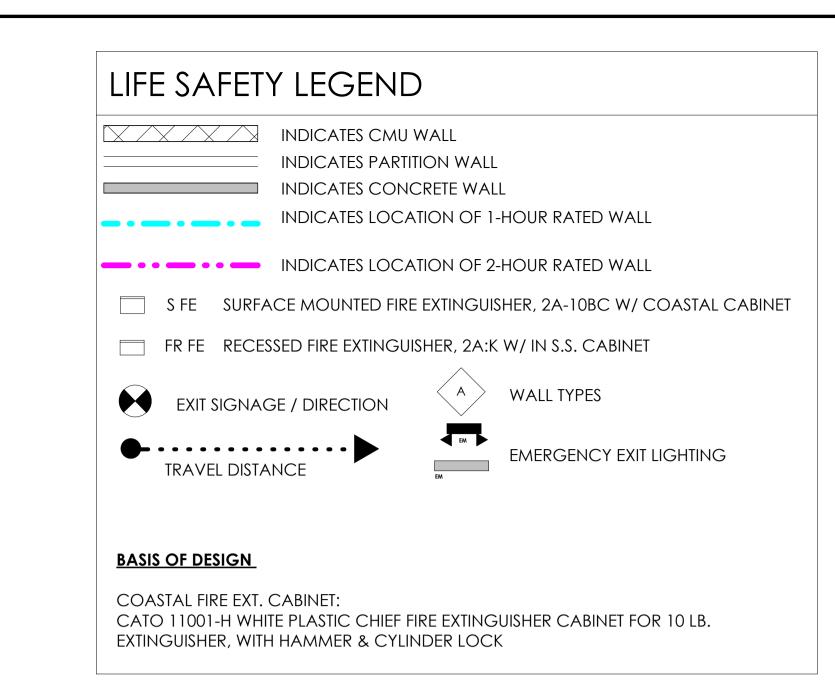
NAPLES 25 12th /

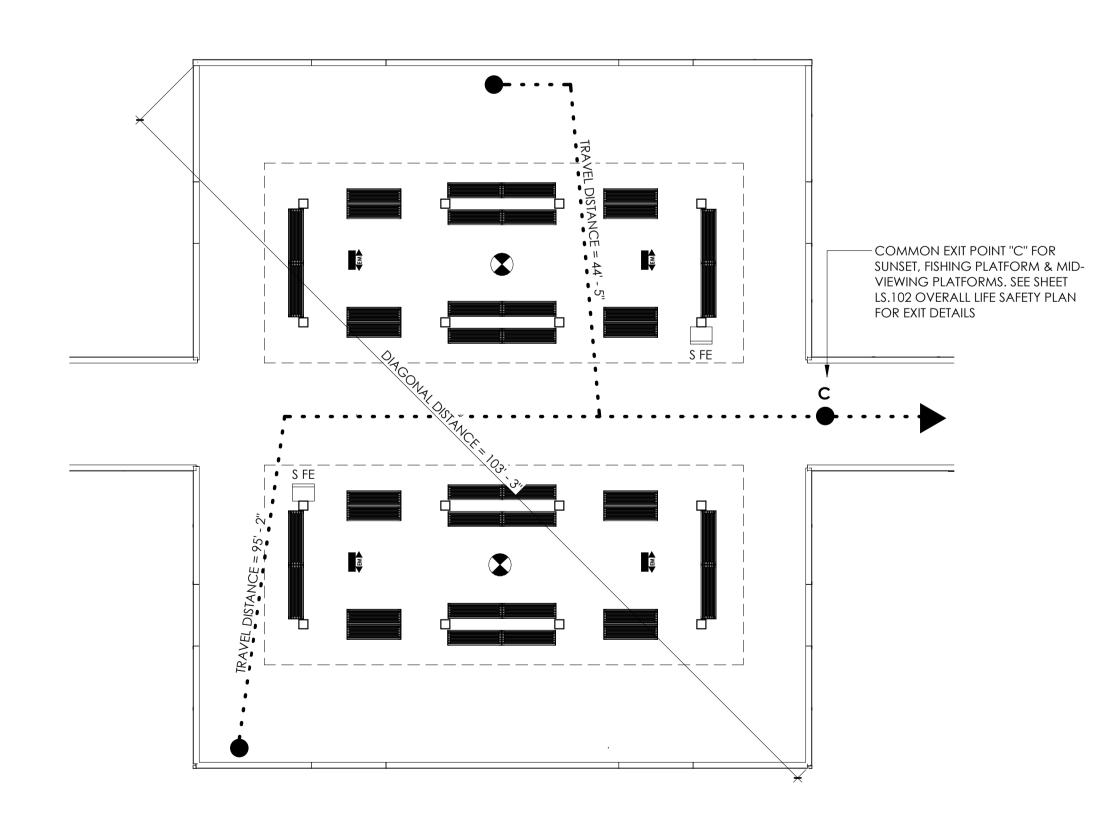
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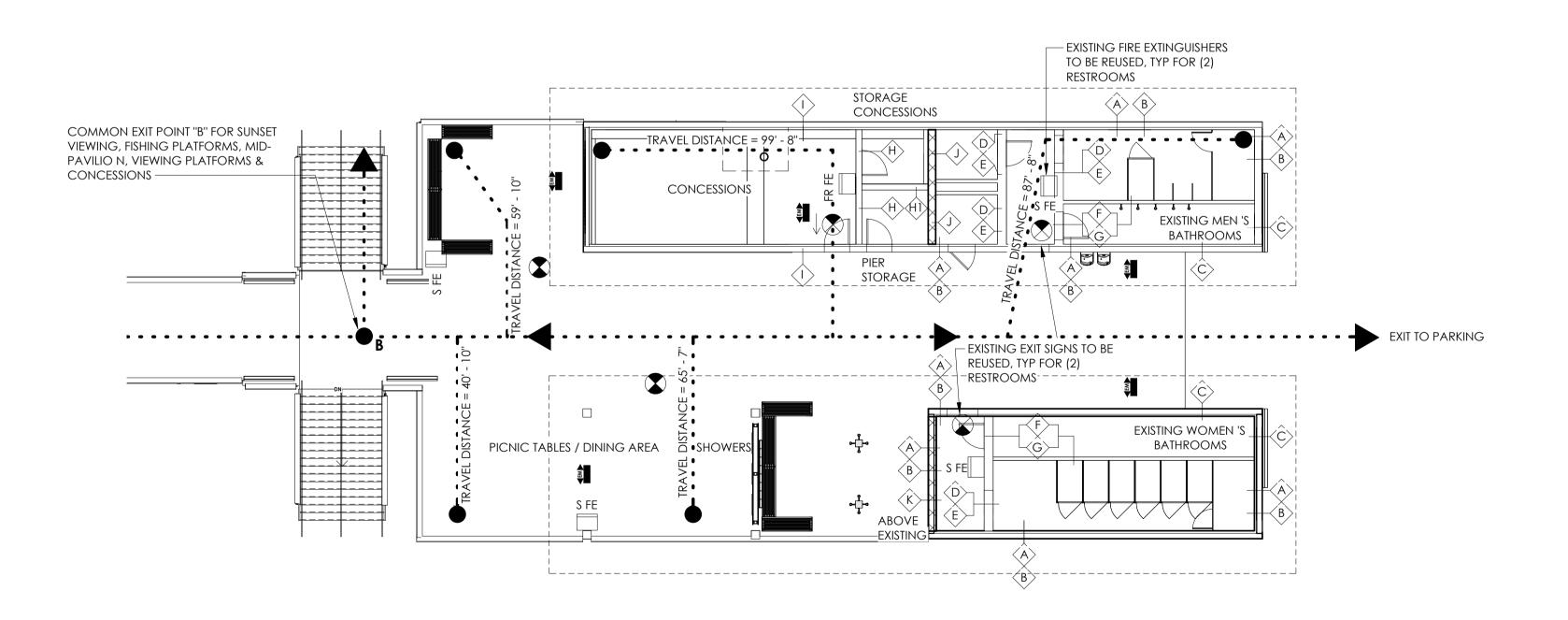
LIFE SAFETY PLAN

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LS.102







2 LIFE SAFETY PLAN - MID-PAVILION
SCALE: 3/32" = 1'-0"



3 LIFE SAFETY PLAN - PIER ACCESS
SCALE: 3/32" = 1'-0"



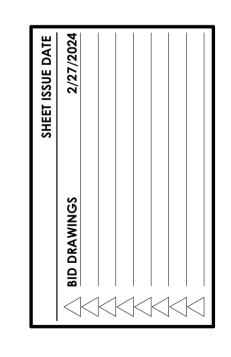
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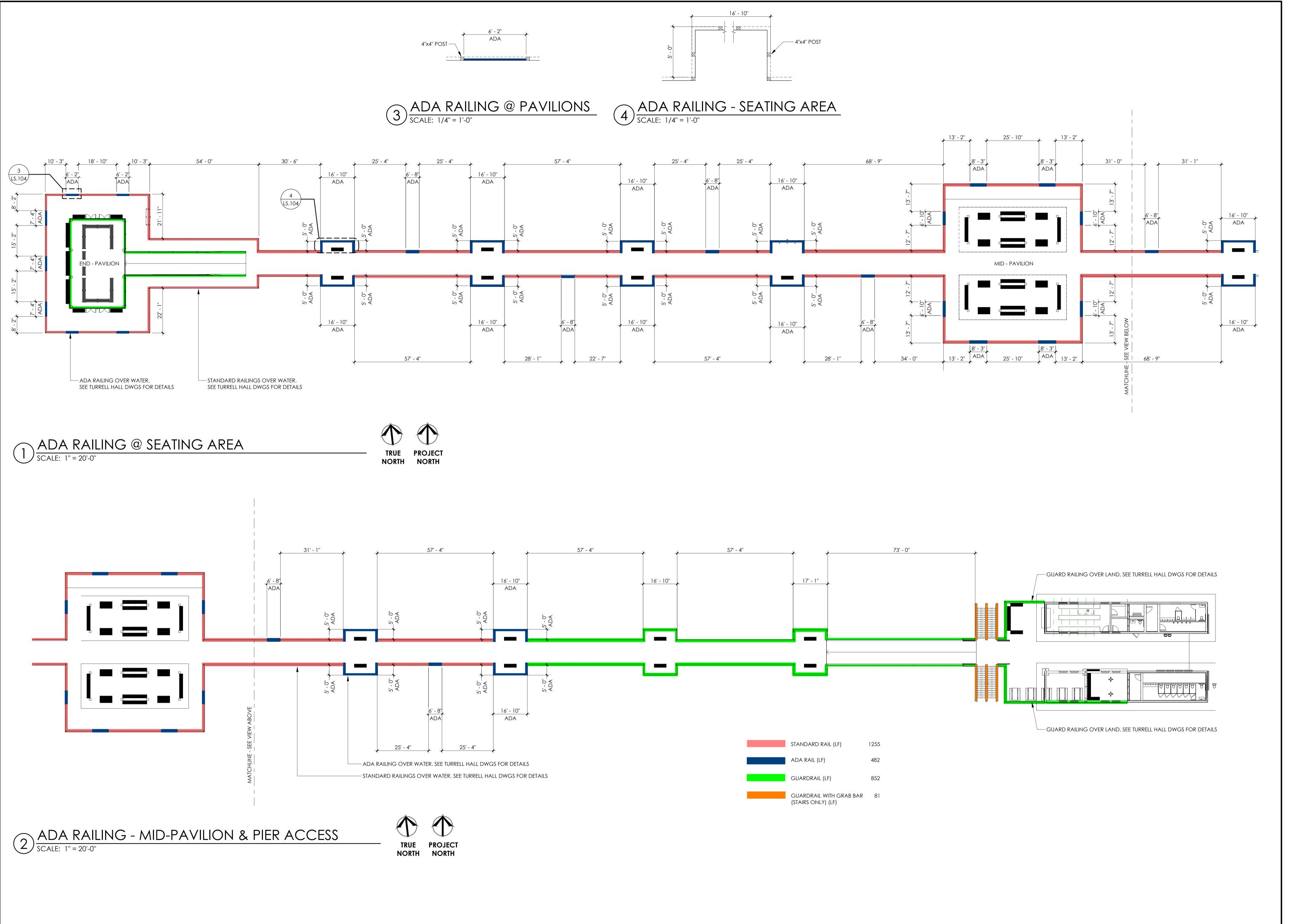
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LIFE SAFETY PLAN - ENLARGED PLANS

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LS 103

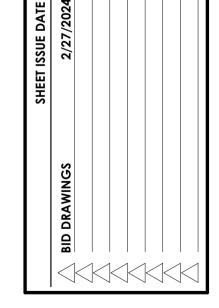


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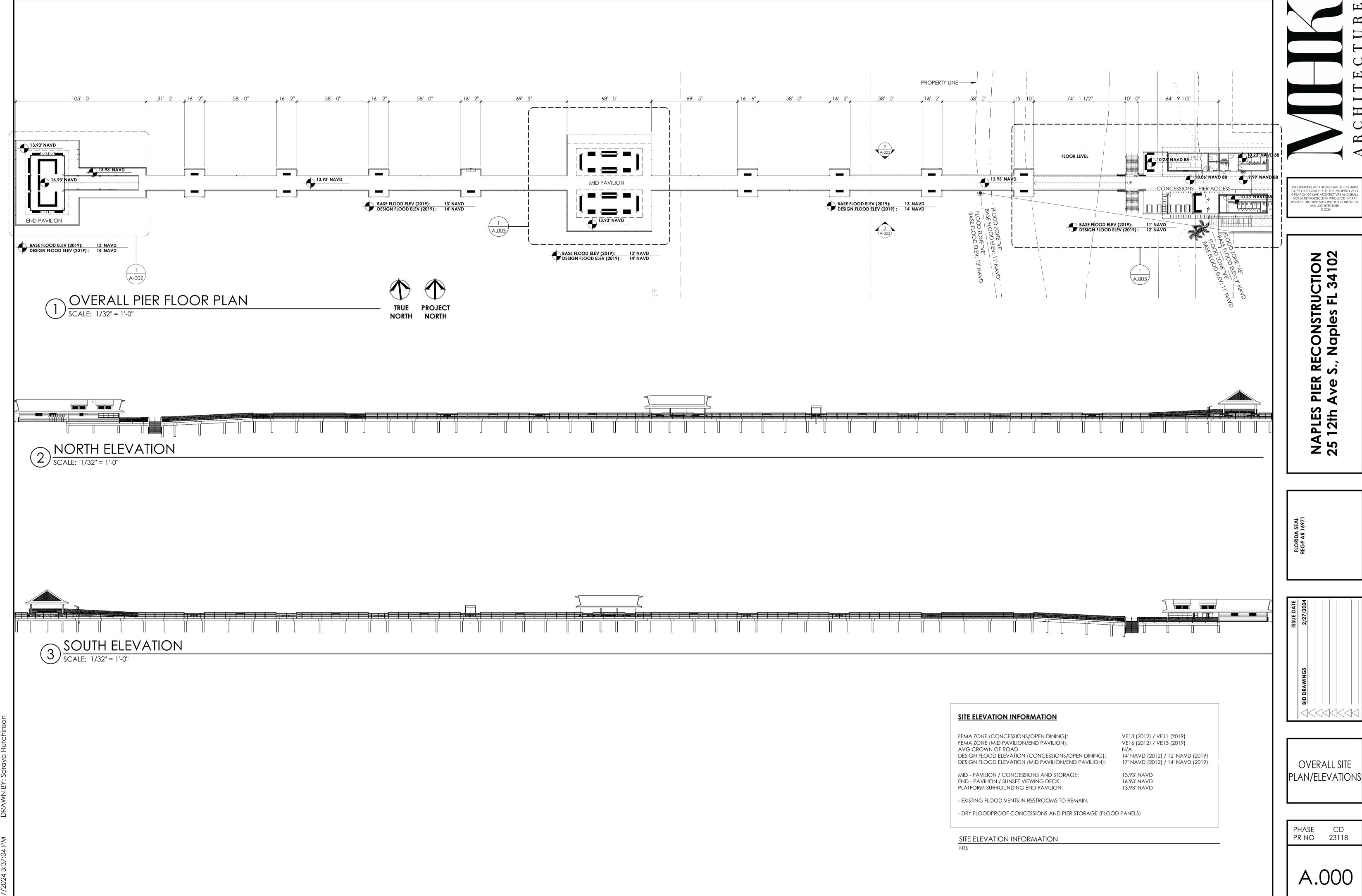
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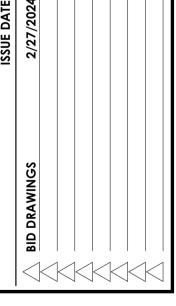


ADA RAILING PLAN

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LS.104



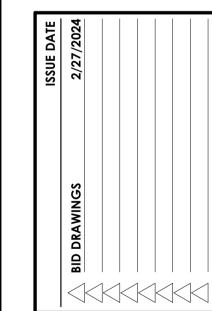


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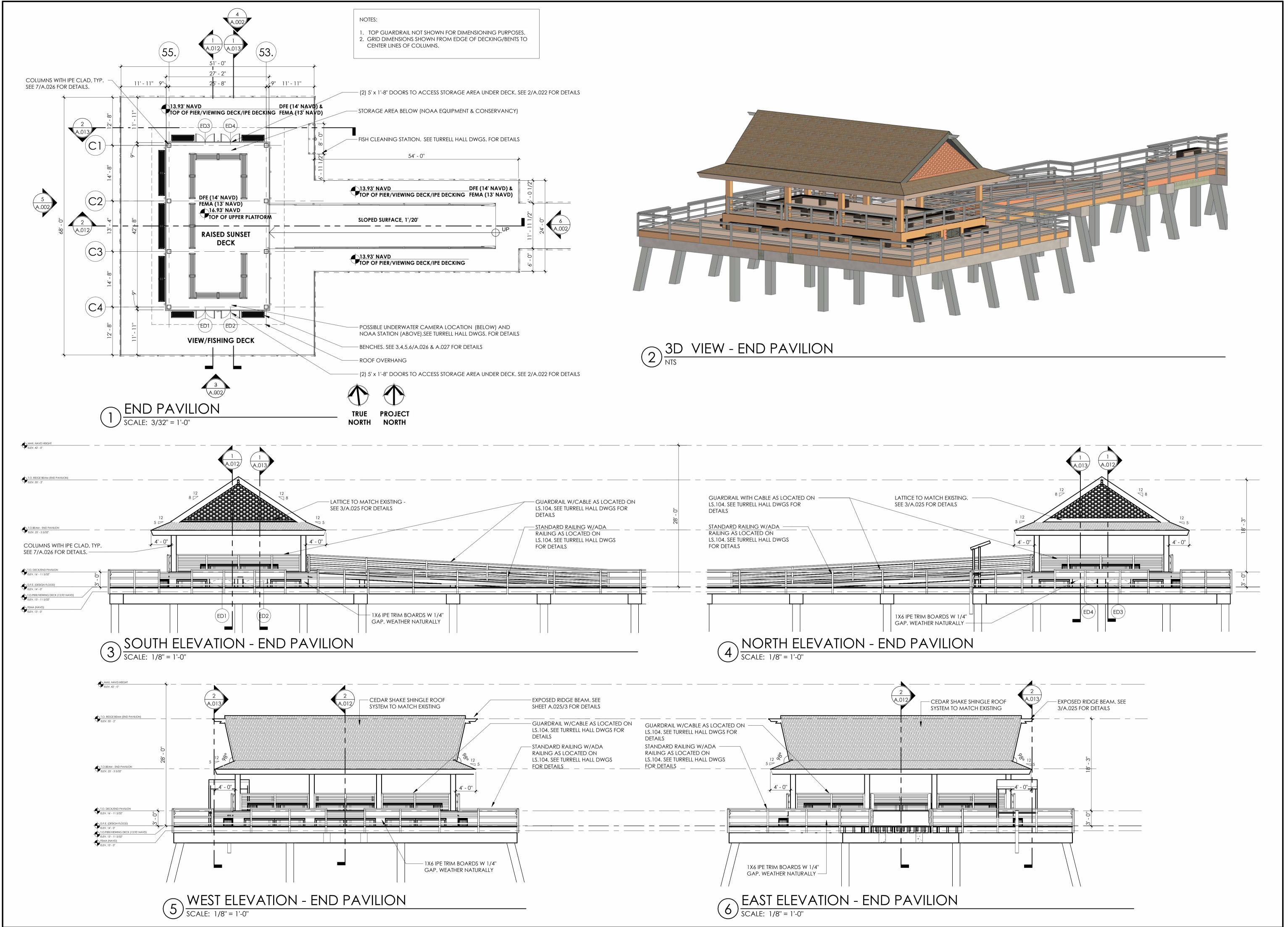
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SITE PLAN (CONCESSIONS / OPEN AIR DINING)

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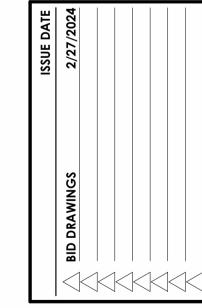
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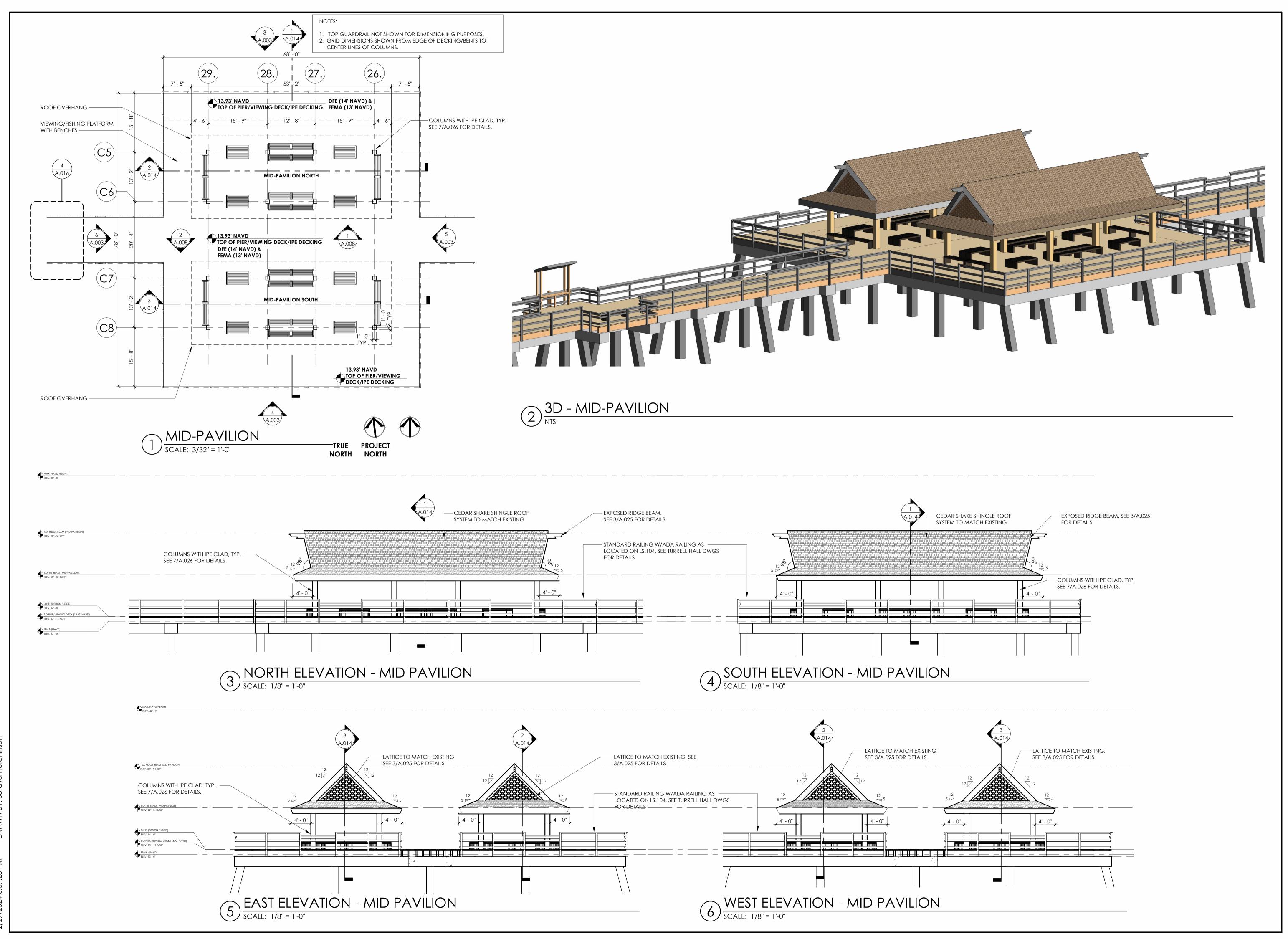
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END-PAVILION FLOOR PLAN / ELEVATIONS

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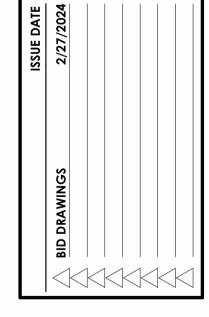


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MID-PAVILION FLOOR PLAN / ELEVATIONS

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DEMOLITION PLAN NOTES

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

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.

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 WITH WRITTEN

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

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

9. EXISTING DRAINS, WATER LINES, AND ELECTRICAL STUBOUTS ARE TO BE CAPPED, IF NOR REUSED.

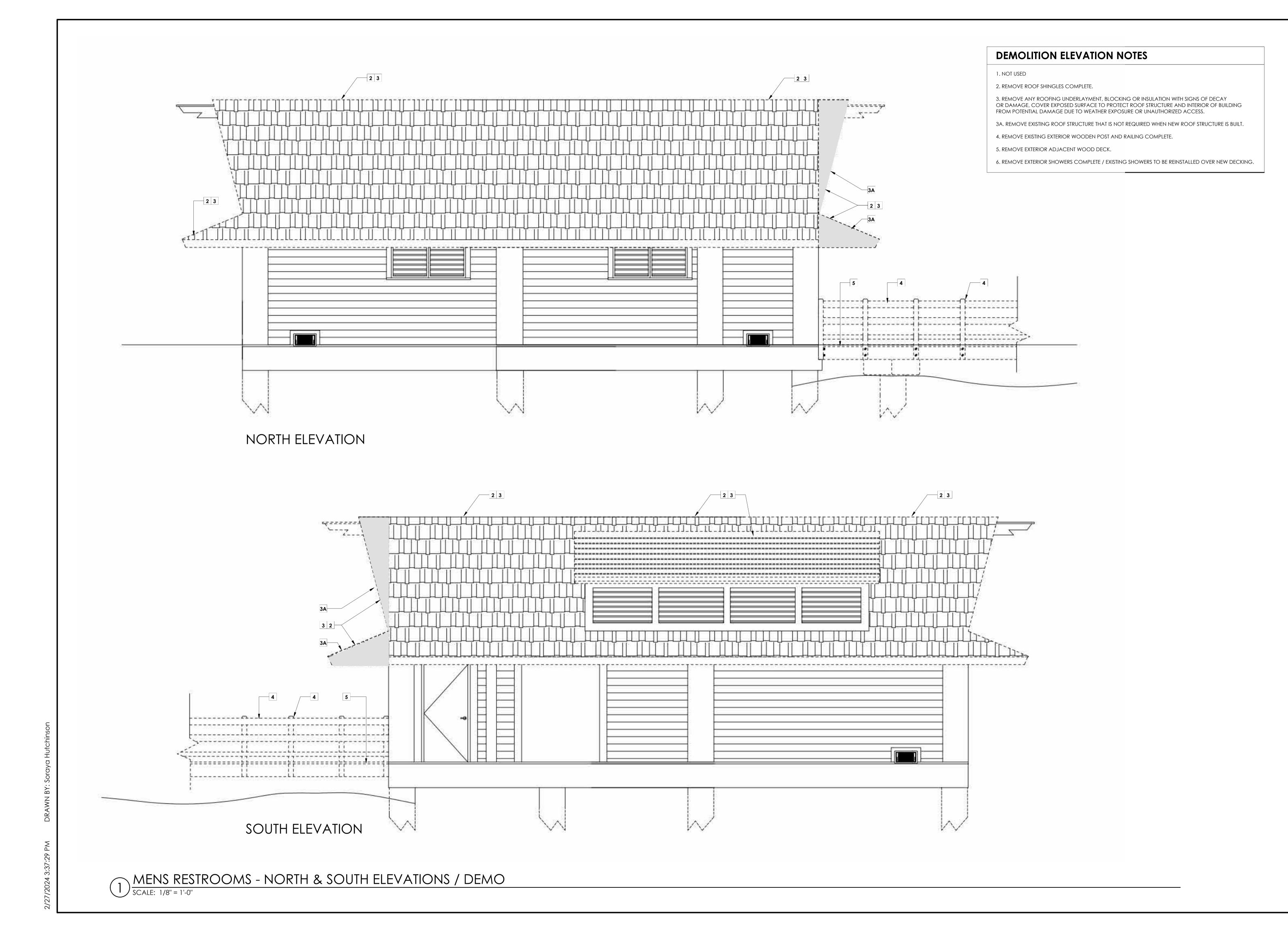
10. PROVIDE REQUIRED SHORING TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING BUILDINGS TO

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PIER ACCESS DEMO PLAN

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RESTROOMS DEMO PLAN) SCALE: 1/8" = 1'-0"



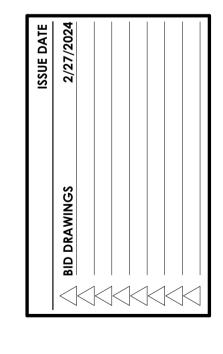
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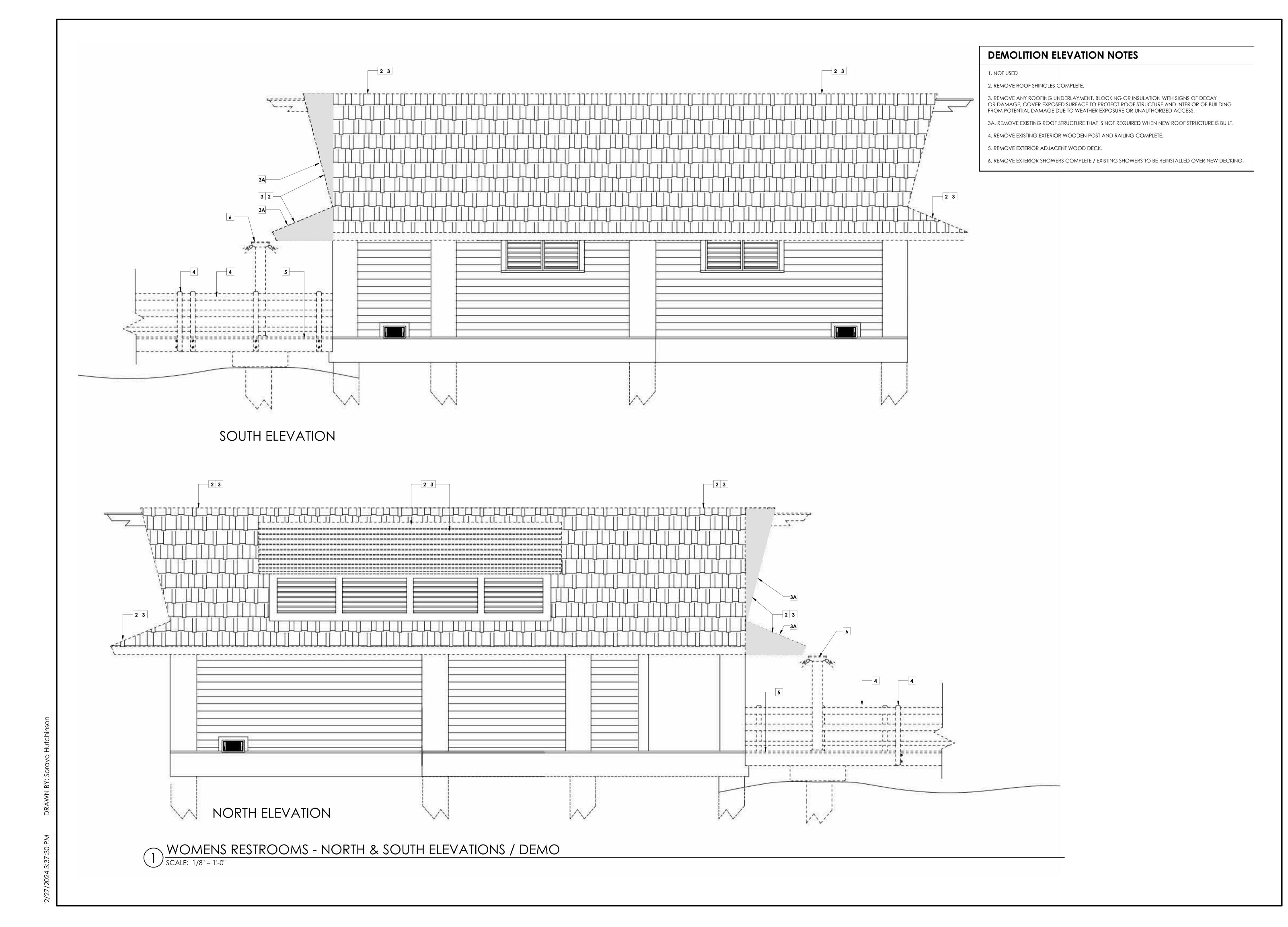
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PIER ACCESS DEMO -ELEVATIONS

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A.004A

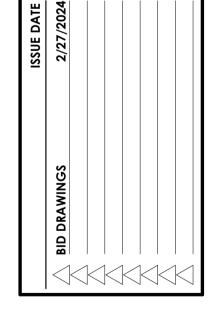


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PIER ACCESS DEMO -ELEVATIONS

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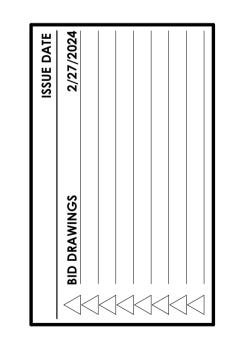
3. REMOVE ANY ROOFING UNDERLAYMENT, BLOCKING OR INSULATION WITH SIGNS OF DECAY OR DAMAGE, COVER EXPOSED SURFACE TO PROTECT ROOF STRUCTURE AND INTERIOR OF BUILDING

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.

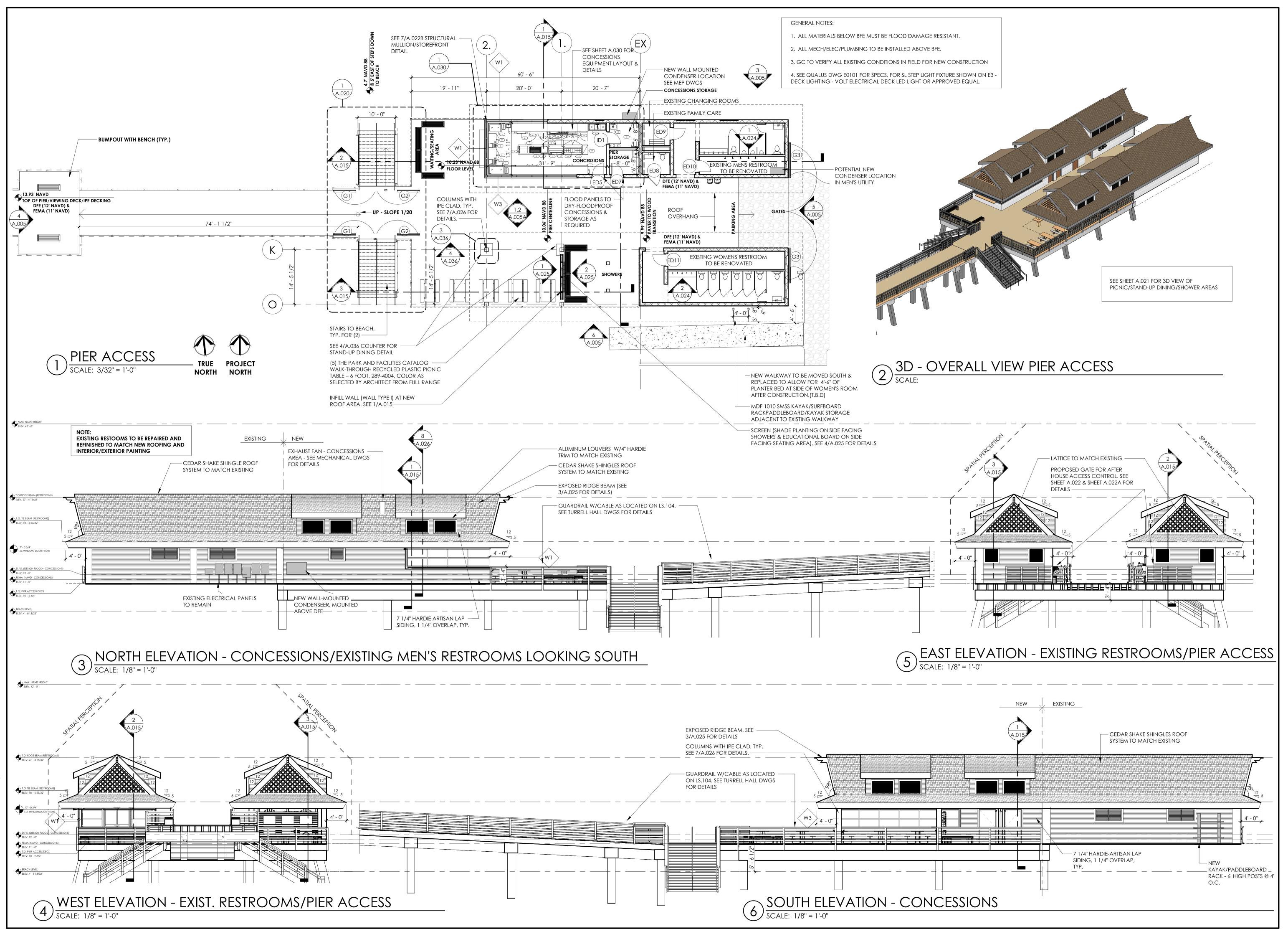
6. REMOVE EXTERIOR SHOWERS COMPLETE / EXISTING SHOWERS TO BE REINSTALLED OVER NEW DECKING.



PIER ACCESS DEMO -**ELEVATIONS**

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A.004C



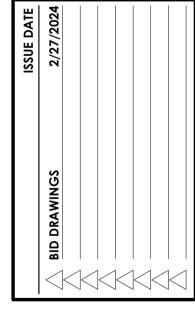
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PIER ACCESS FLOOR PLAN / ELEVATIONS

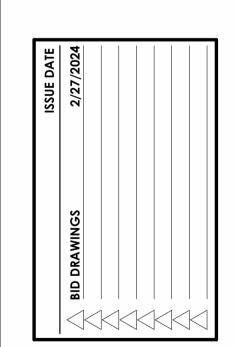
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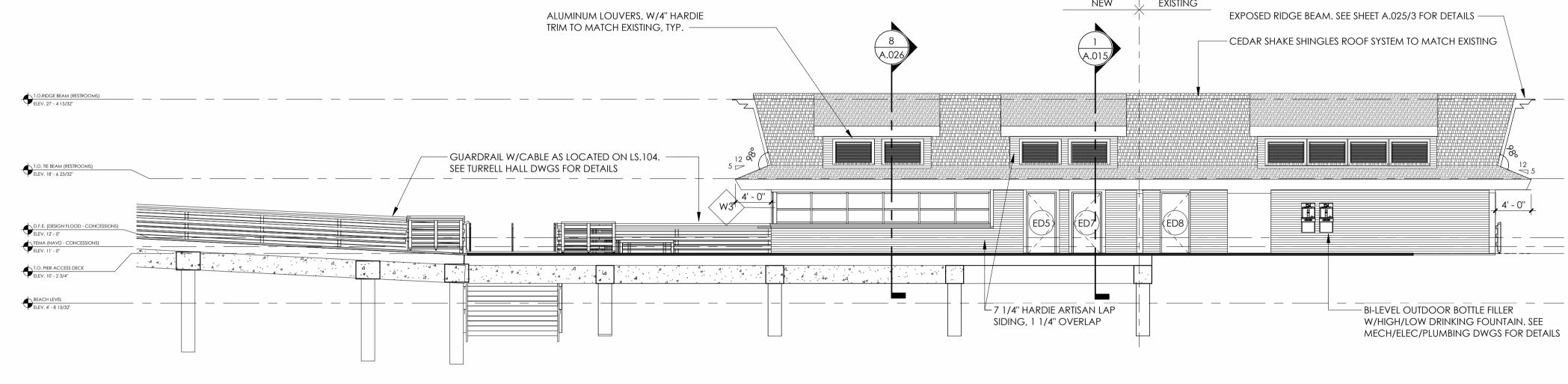
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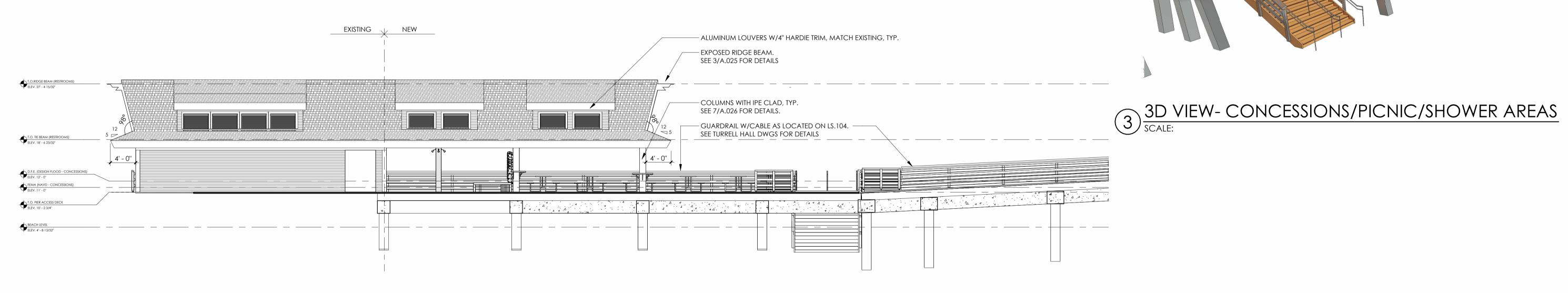
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PARTIAL SOUTH ELEVATION - CONCESSIONS

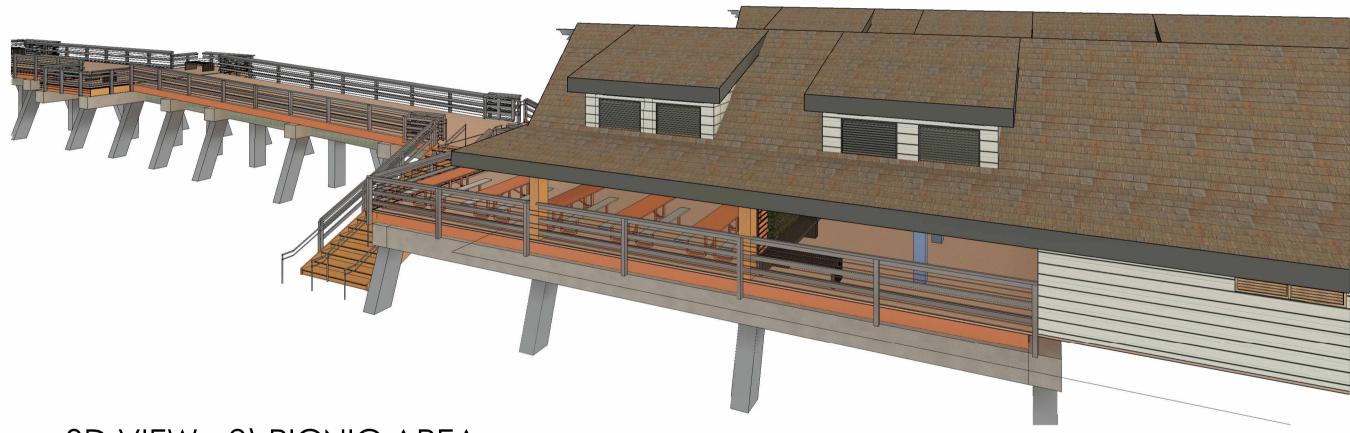
| SCALE: 1/8" = 1'-0"



PARTIAL NORTH ELEVATION - SHOWERS/SEATING AREA

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

1 3D VIEW - 1) PICNIC AREA SCALE:



2 3D VIEW - 2) PICNIC AREA SCALE:



3 SCALE:

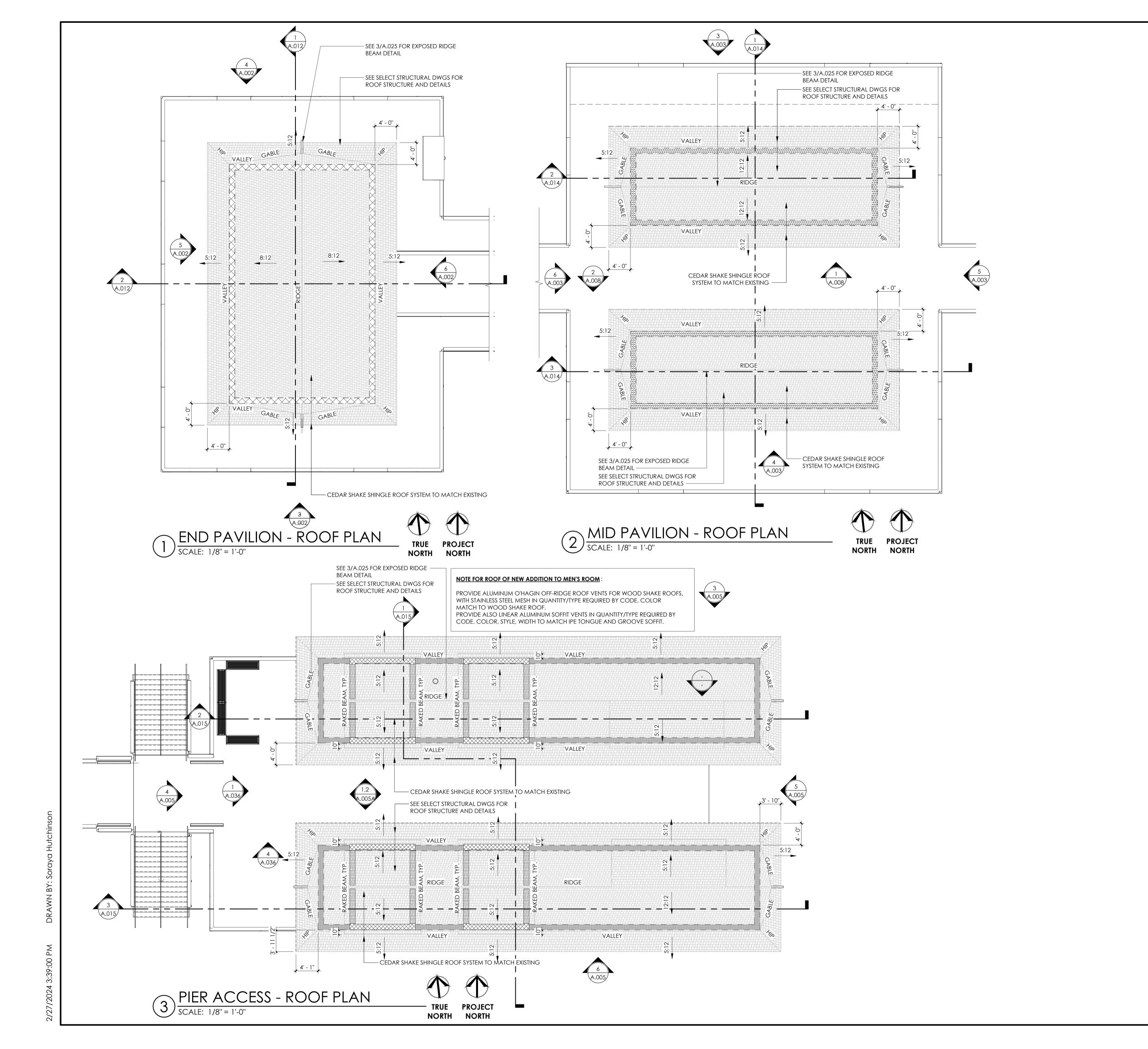
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3D VIEWS - PIER **ACCESS**

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A.005B



GENERAL NOTES

1. ALL NON-GALVALUM EXPOSED VERTICAL FLASHINGS TO BE PAINTED TO MATCH FIELD COLOR OF EXISTING BUILDING.

BASIS OF DESIGN:

CEDAR SHAKE SHINGLES; CCA TREATED CEDAR SHAKES SPLIT AND RESAWN 24" x 3/4" MEDIUM (MECH. ATTACHED AND TO MATCH EXISTING)

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 PIER ACCESS/CONCESSIONS = 18'-6 23/32"	
TOP OF BEAM AT DORMERS = 23'-1 7/32"	
RAKED BEAM	

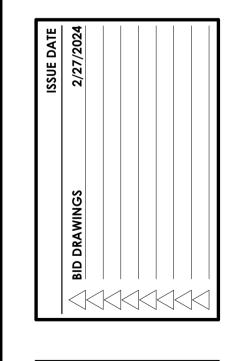
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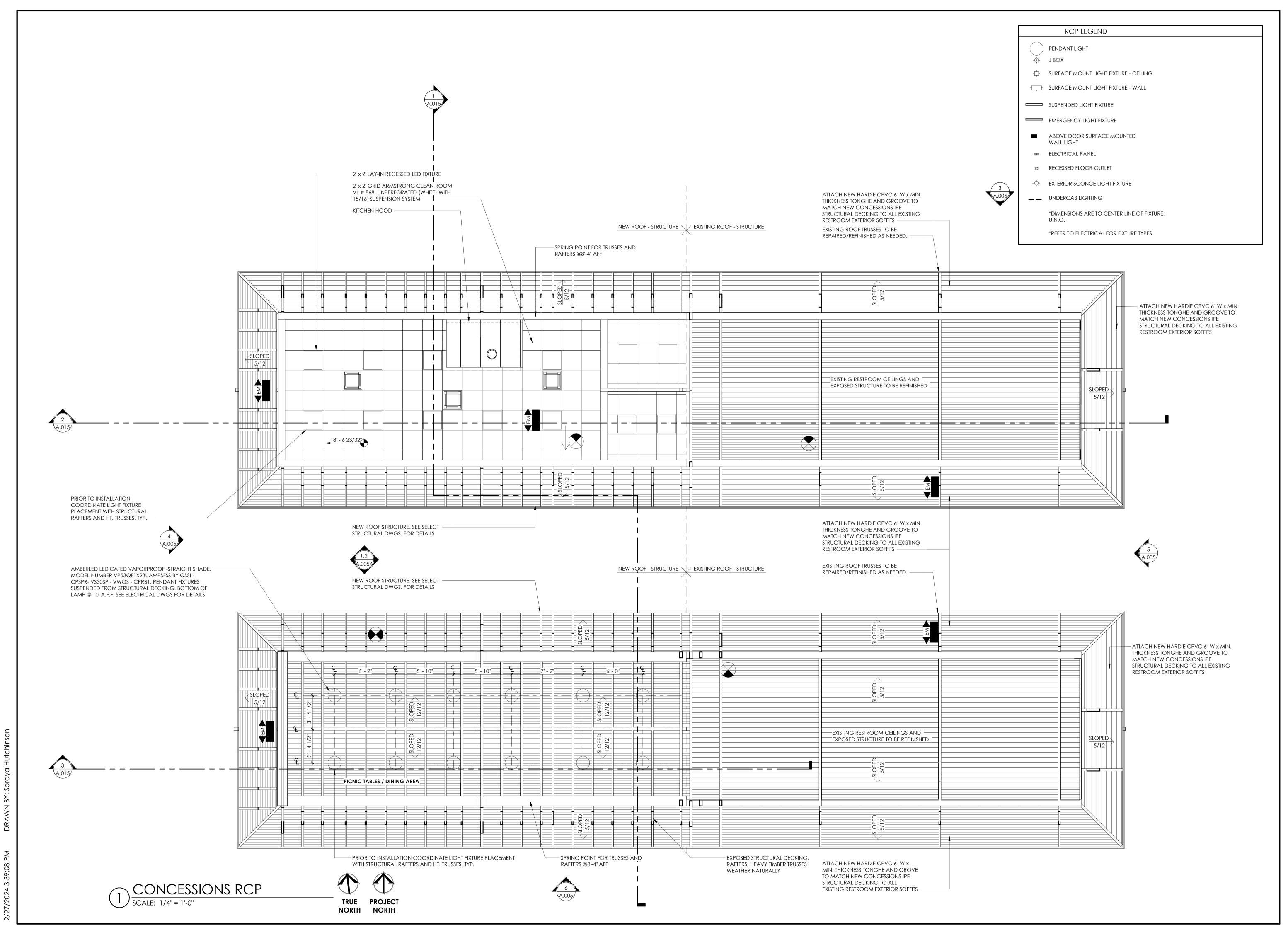
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ROOF PLANS

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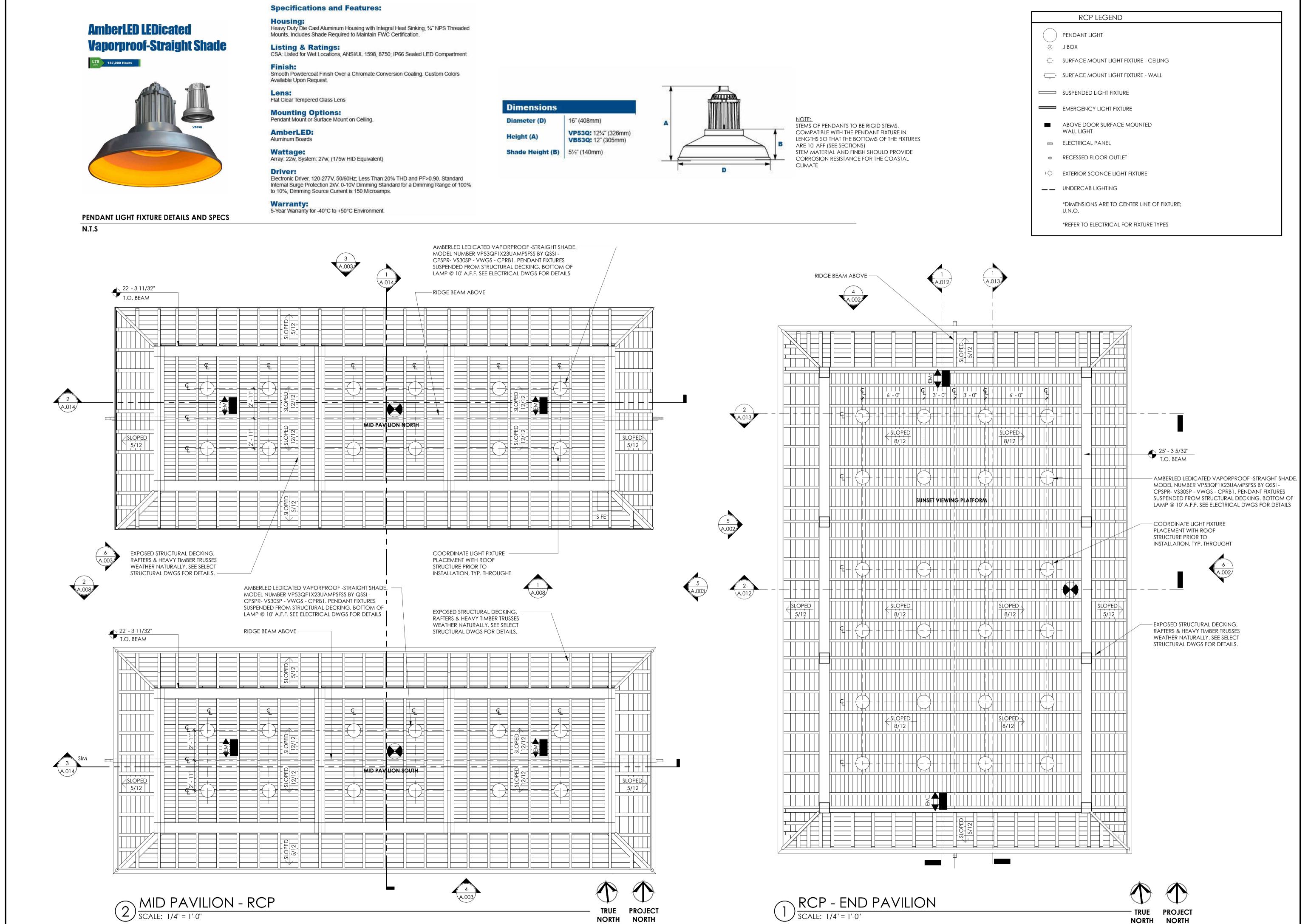
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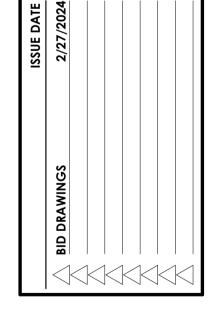
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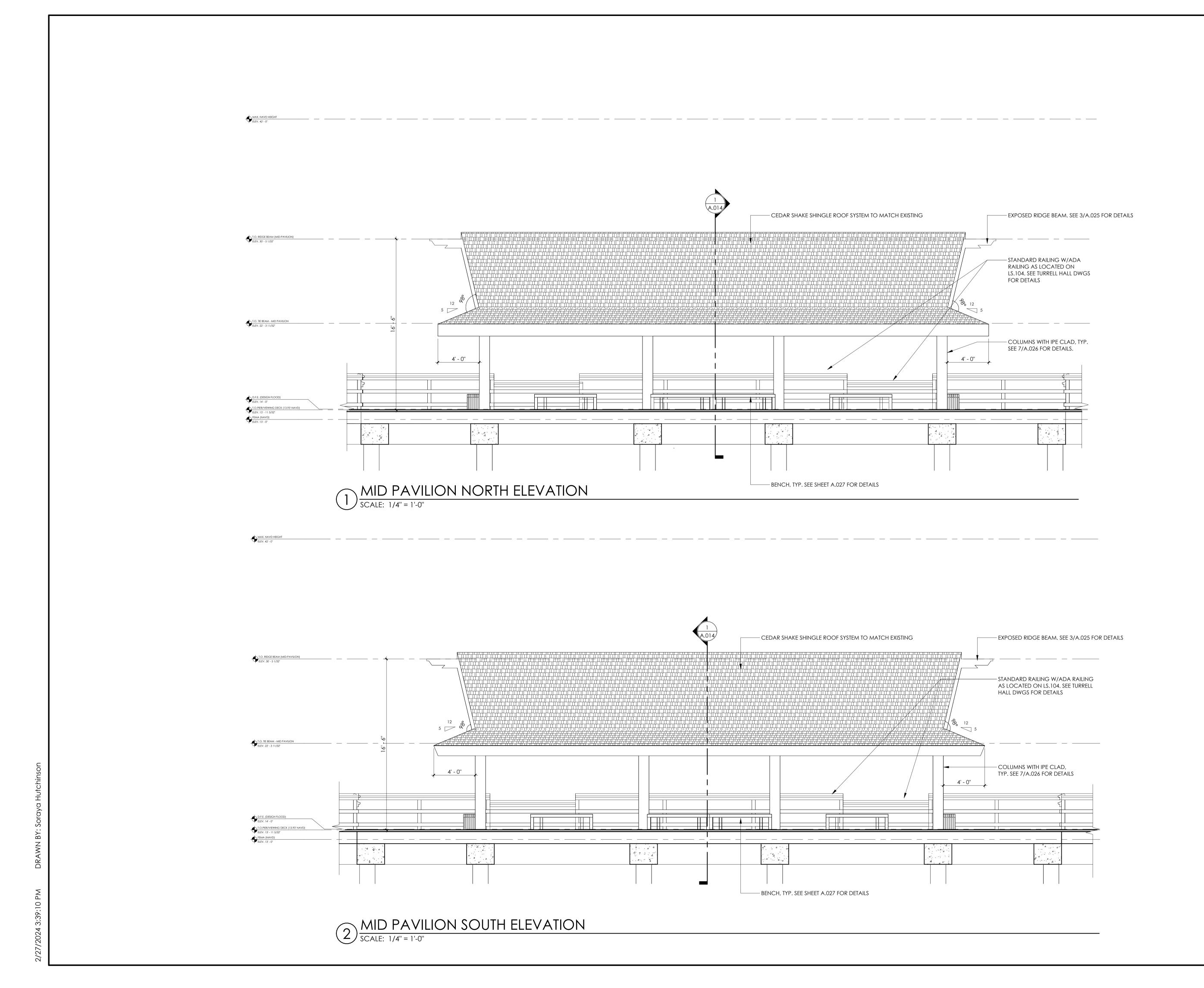
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RCP - END & MID PAVILIONS

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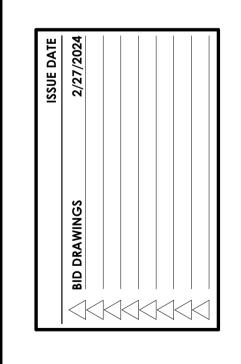
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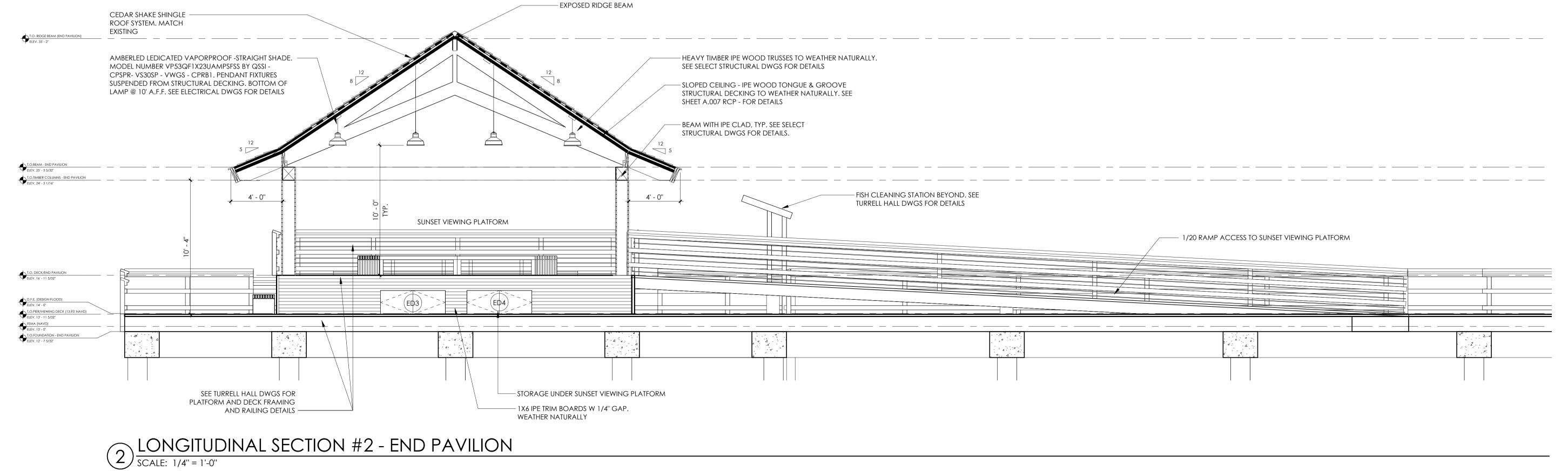
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MID-PAVILION ELEVATIONS

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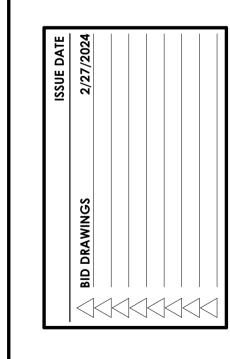
TRANSVERSE SECTION #2 - END PAVILION $\frac{1}{\text{SCALE: } 1/4'' = 1'-0''}$



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END PAVILION SECTIONS

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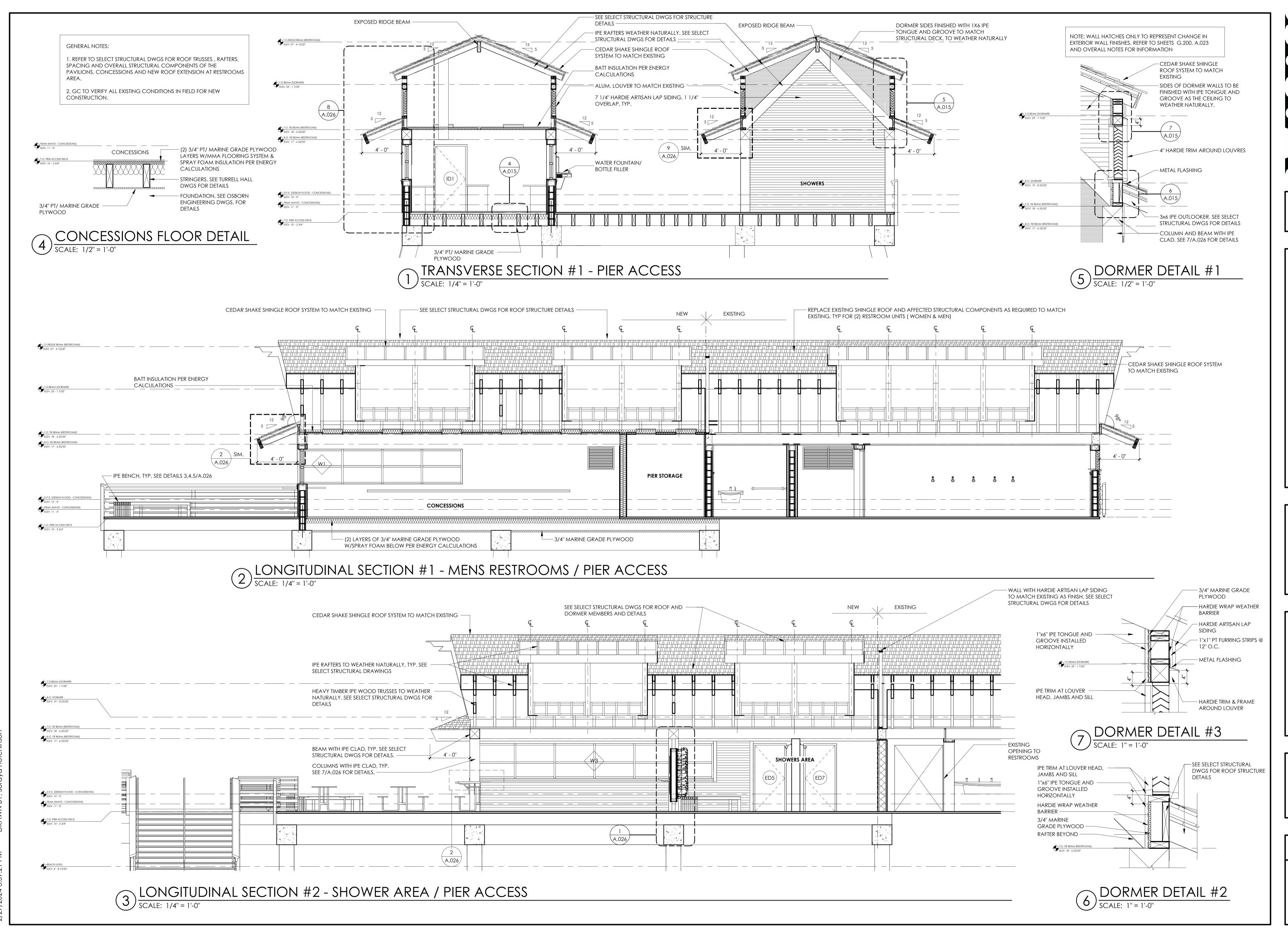
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MID PAVILION SECTIONS

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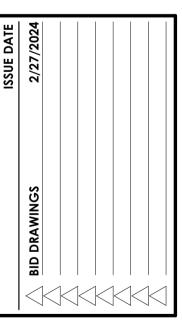
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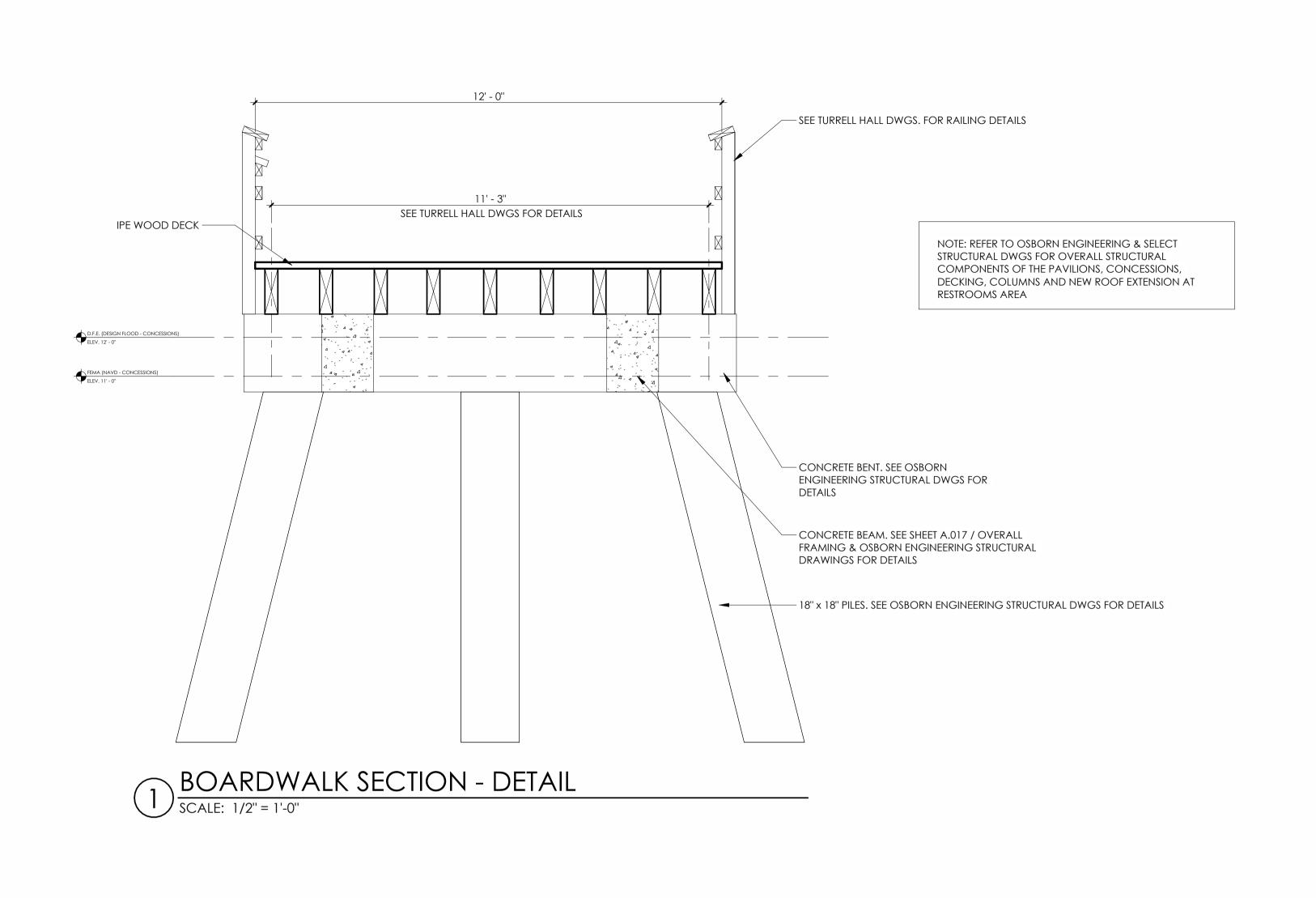
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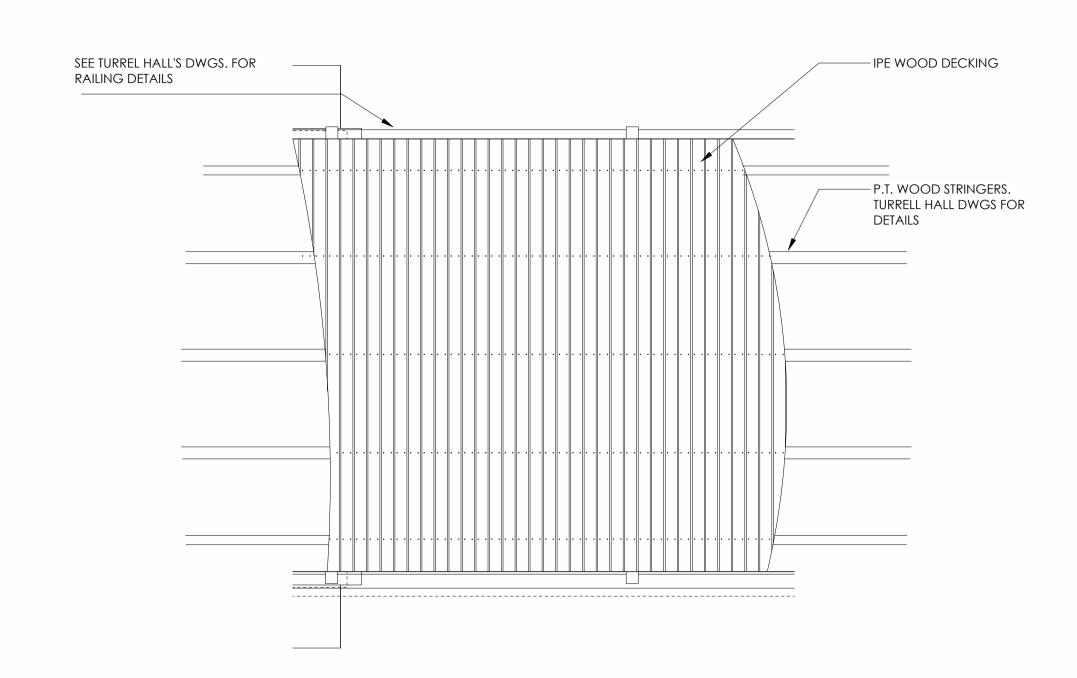
FLORIDA SEAL REG# AR 16971



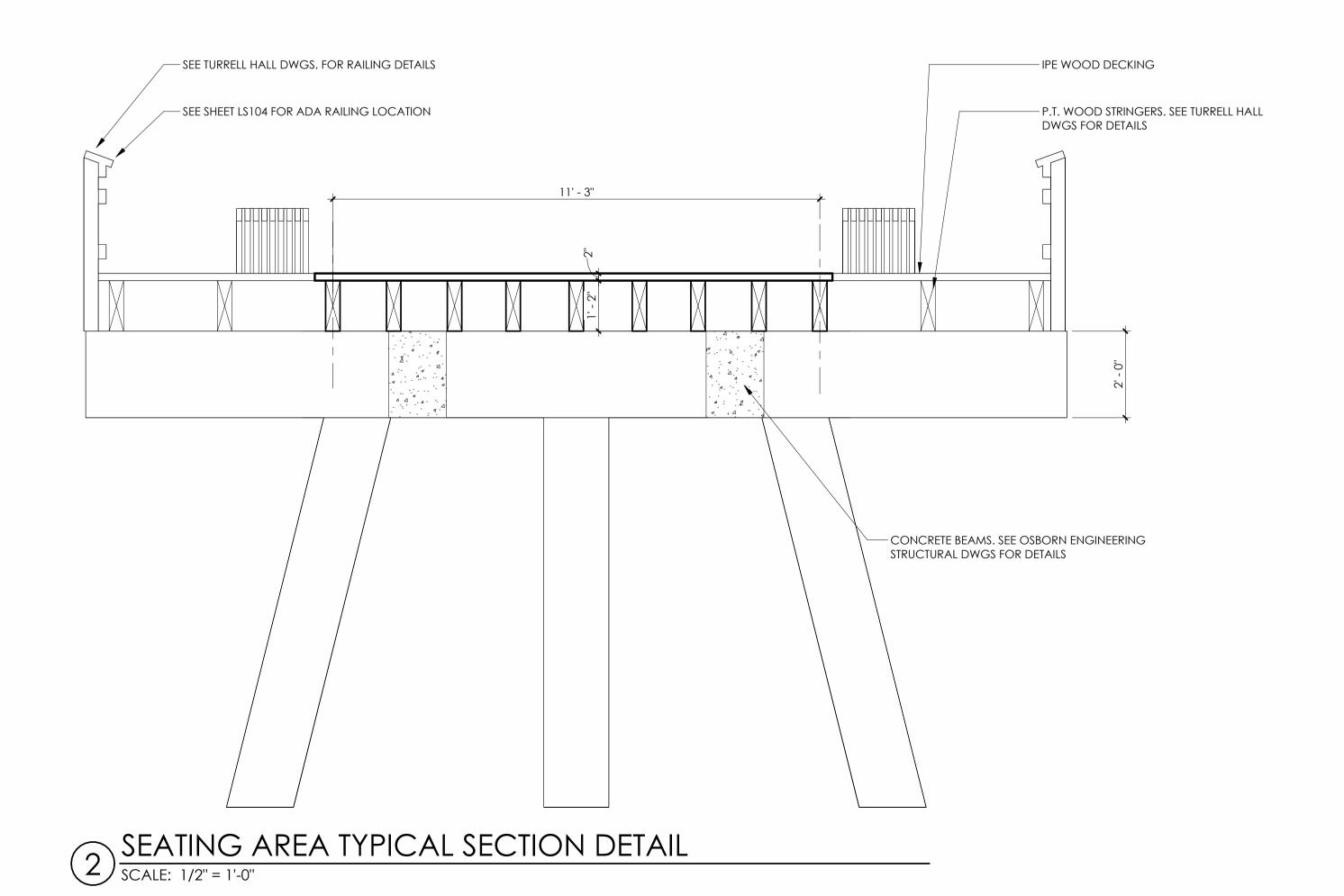
PIER ACCESS SECTIONS

PHASE CD PR NO 23118





4 DECKING - NAILING DETAIL



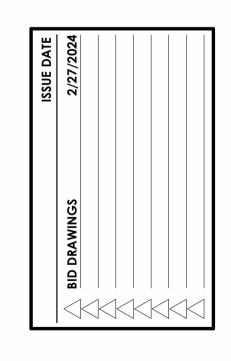


3D VIEW - BOARDWALK/SEATING AREA/ADA RAILING

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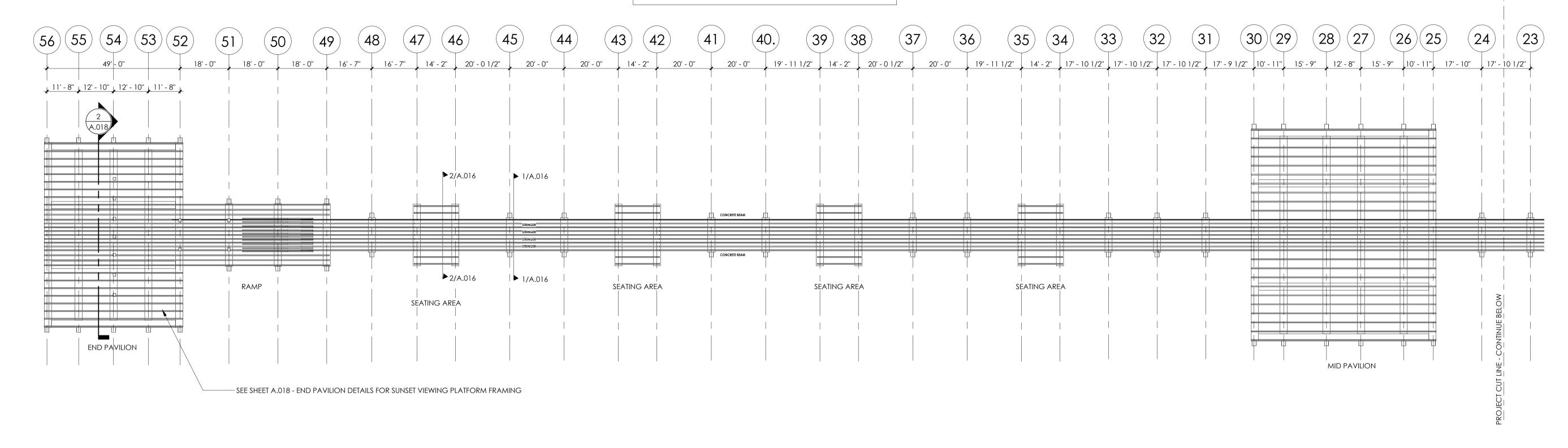
FLORIDA SEAL REG# AR 16971



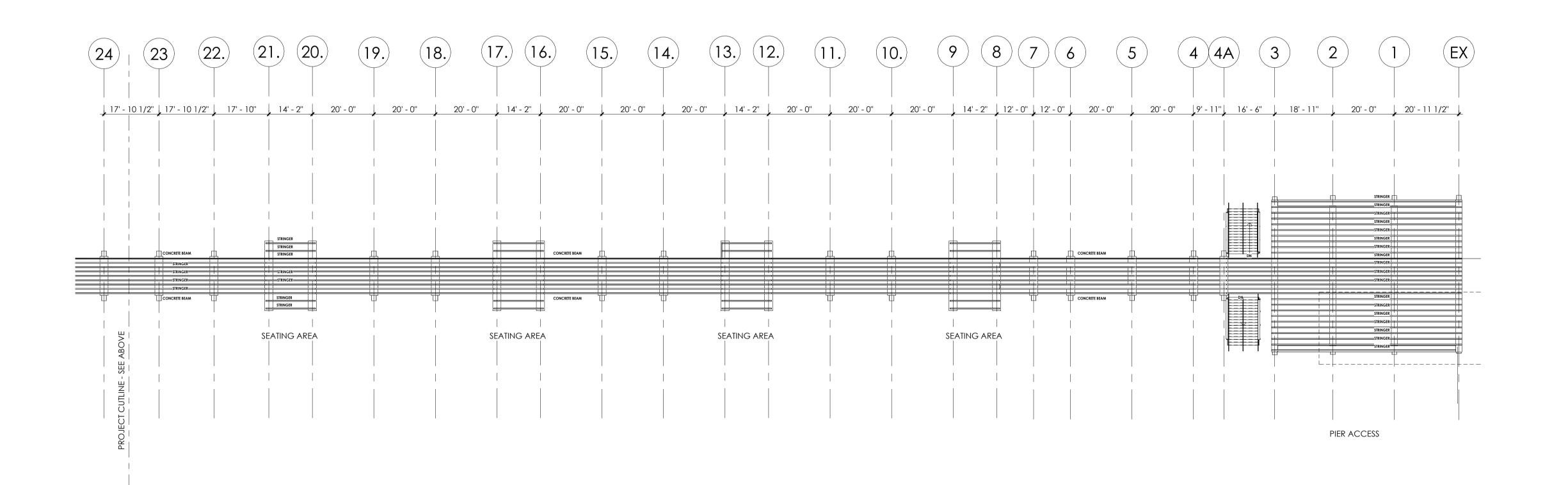
SEATING/DECKING SECTIONS

PHASE CD PR NO 23118

NOTE: FURNITURE, WALLS, ROOF, RAILINGS, DECKING FLOOR AND RAMPS NOT SHOWN ON FRAMING PLAN FOR CLARITY PURPOSES. REFER TO SHEETS A.001-A.003 FOR OVERALL VIEWS, ENLARGED PLANS AND DETAILS.



NOTE: REFER TO TURRELL HALL & SELECT STRUCTURAL DWGS FOR OVERALL STRUCTURAL COMPONENTS OF THE PAVILIONS, CONCESSIONS, DECKING, COLUMNS, RAILING AND NEW ROOF EXTENSION AT RESTROOMS AREA



1 END-PAVILION TO MID-PAVILION FRAMING PLAN SCALE: 1" = 20'-0"

OVERALL PIER FLOOR FRAMING - PIER ACCESS

SCALE: 1" = 20'-0"

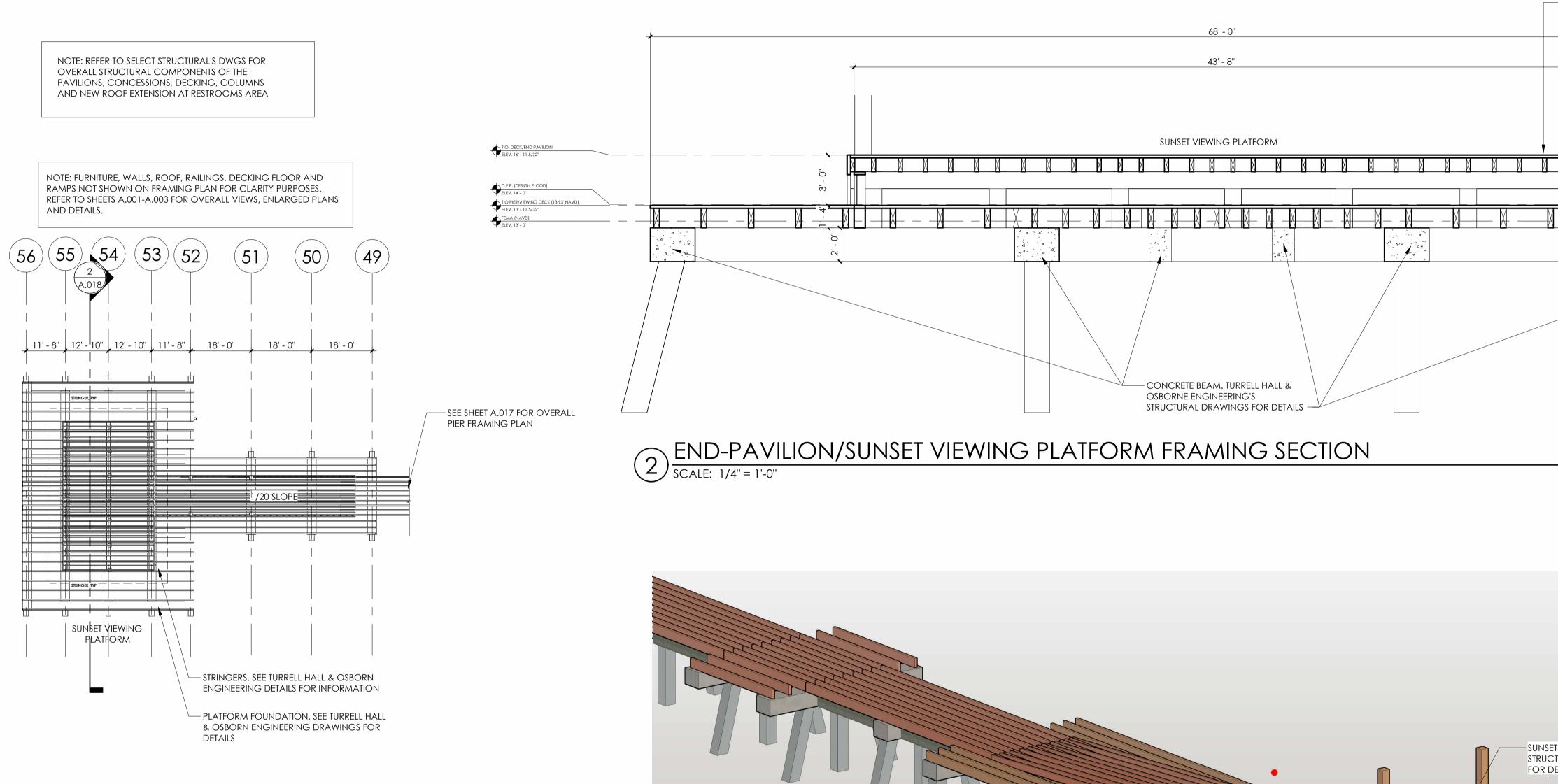
OVERALL FRAMING

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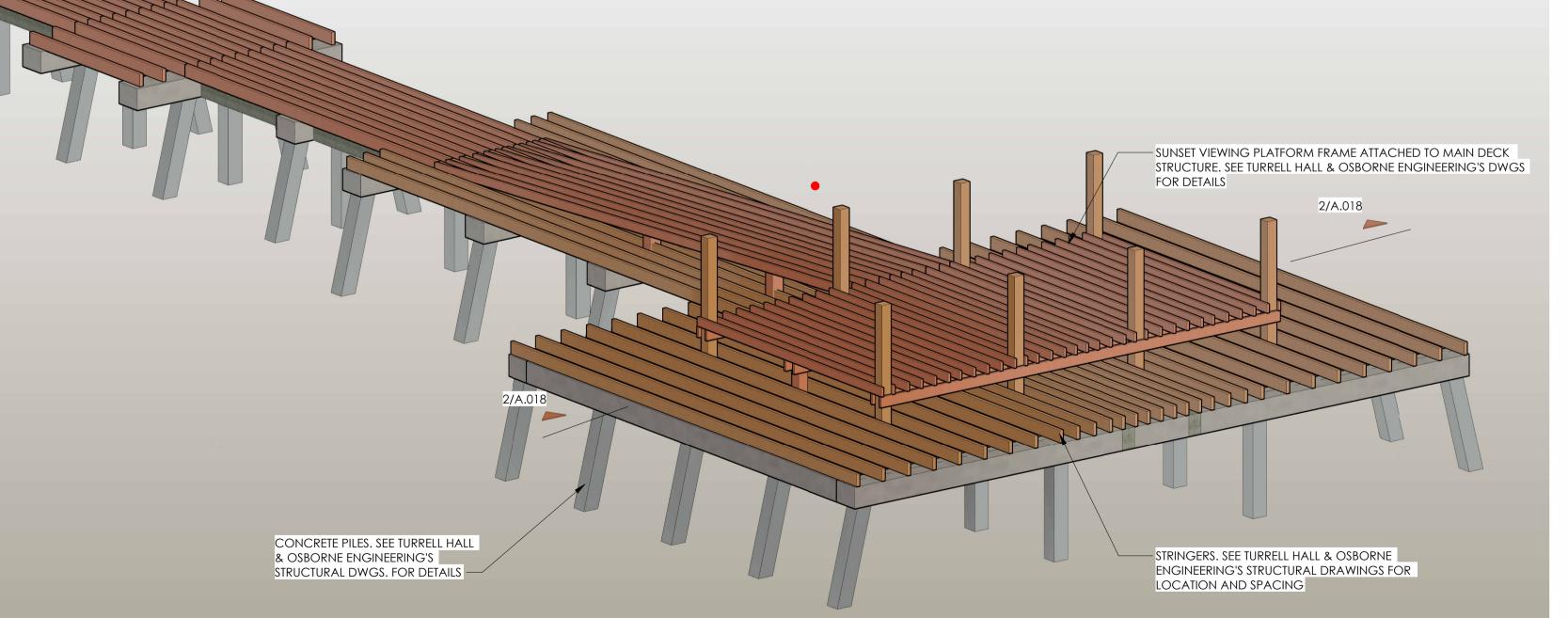
ECONSTRUCTION , Naples FL 34102

NAPLES 25 12th /

PHASE PR NO 23118



1 END-PAVILION/SUNSET VIEWING PLATFORM FRAMING PLAN SCALE: 1" = 20'-0"



3 SCALE:

- SUNSET VIEWING PLATFORM STRUCTURE ATTACHED TO END-PAVILION PLATFORM STRUCTURE. SEE TURRELL HALL & OSBORNE ENGINEERING

END-PAVILION PLATFORM

DRAWINGS FOR DETAILS

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FRAMING PLAN & DETAILS

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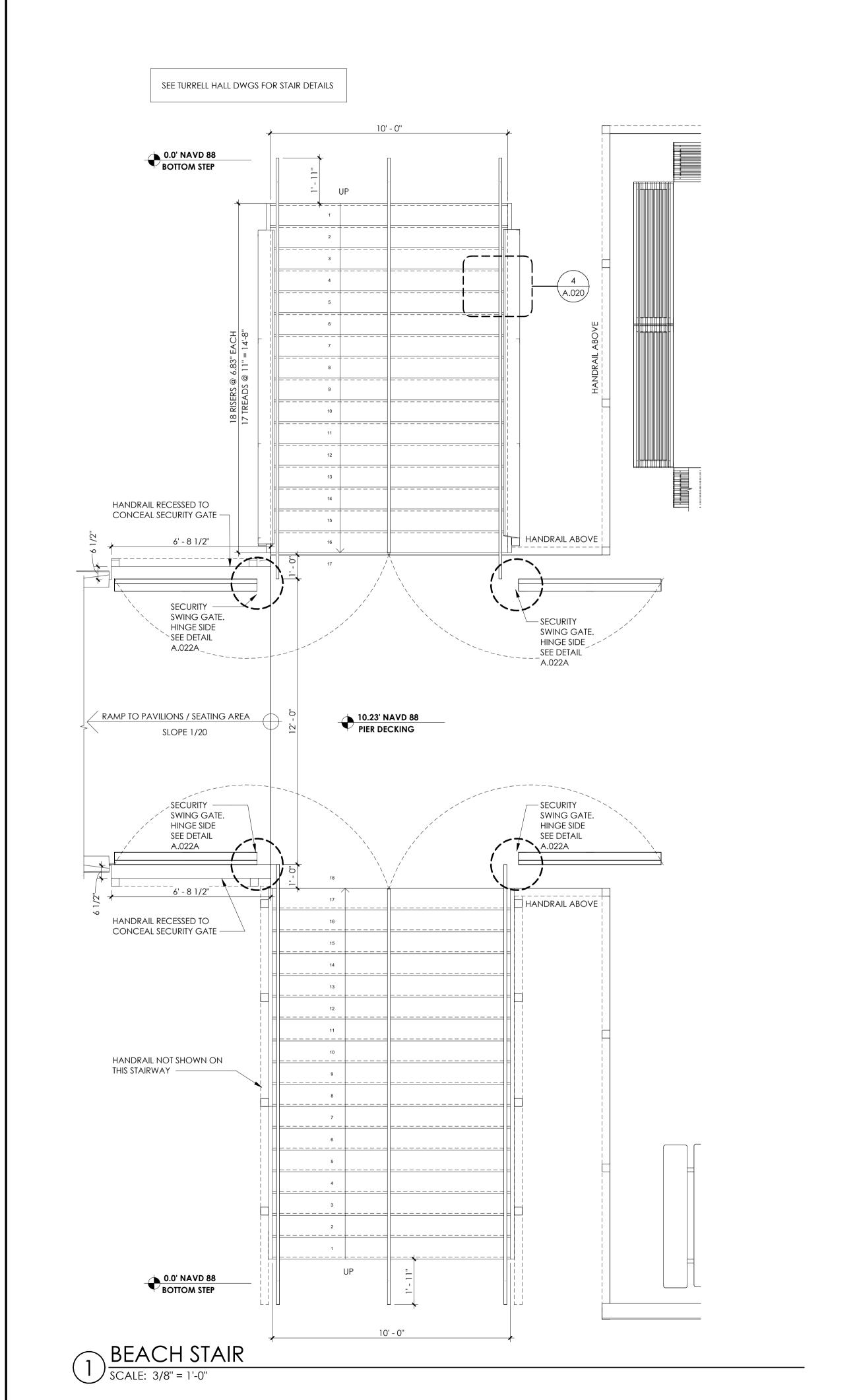
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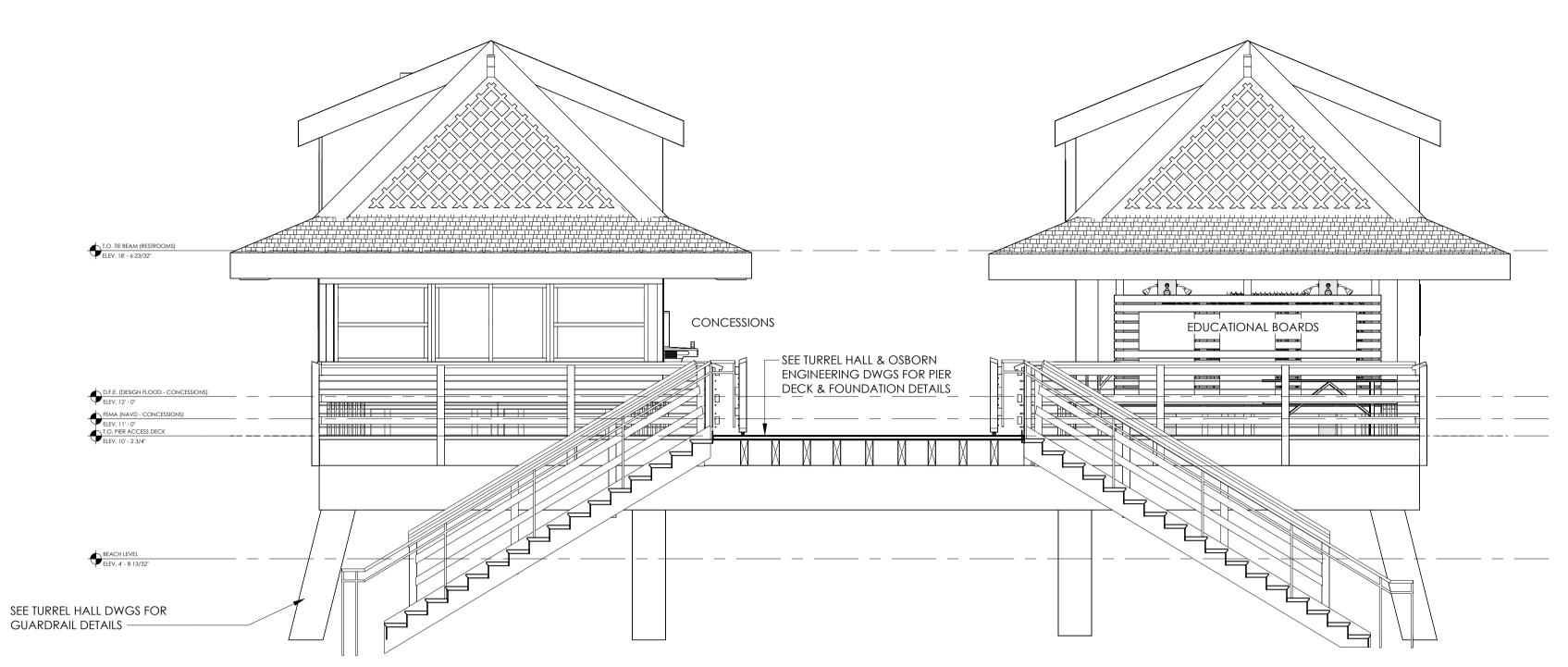
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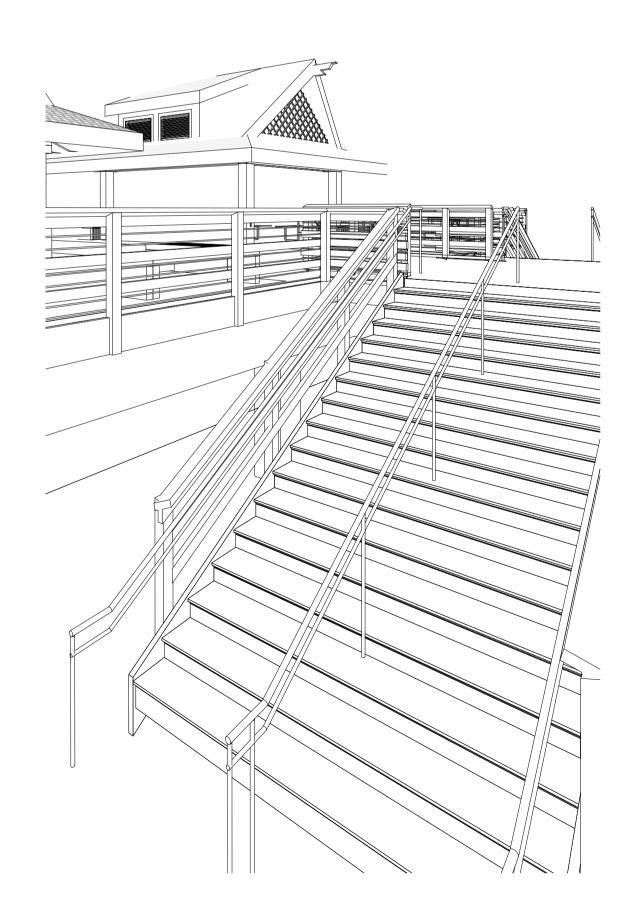
REG# AR 16971

3D VIEW -OVERALL PIER FRAMING

PHASE CD PR NO 23118



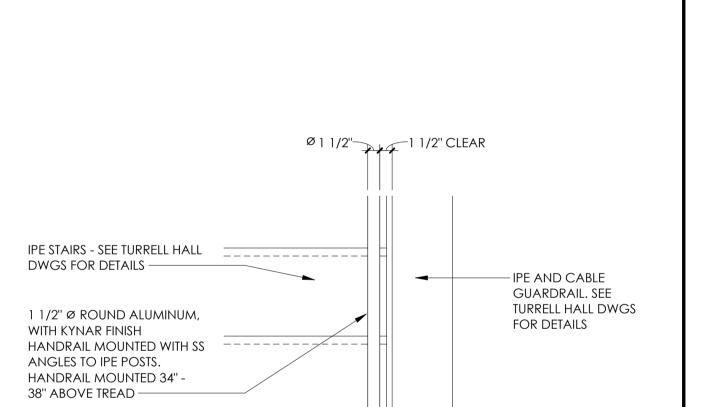




3 SECTION THRU PIER ACCESS/STAIRS

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







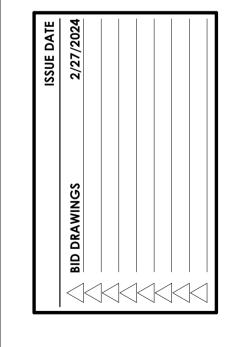
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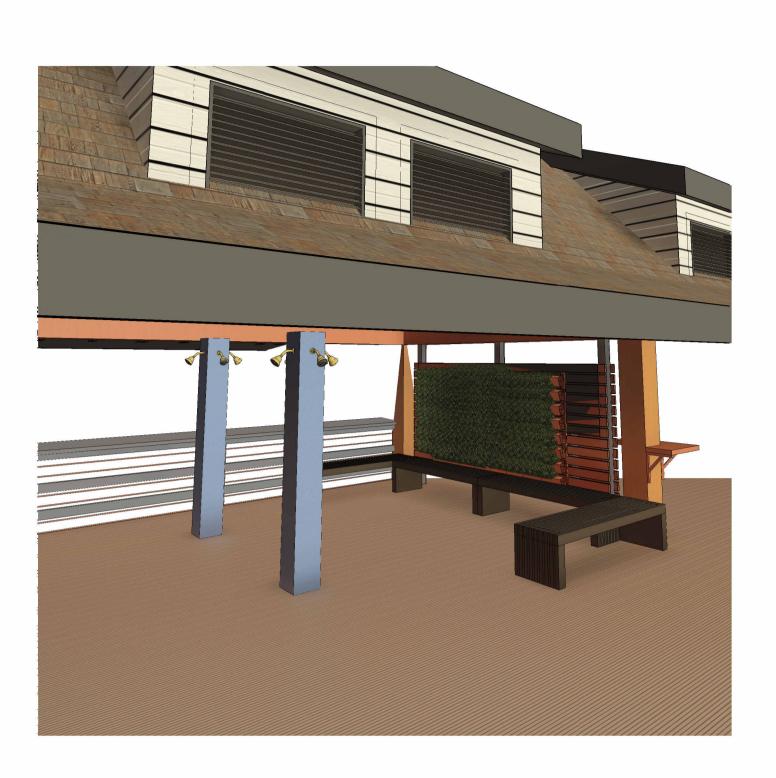
FLORIDA SEAL REG# AR 16971



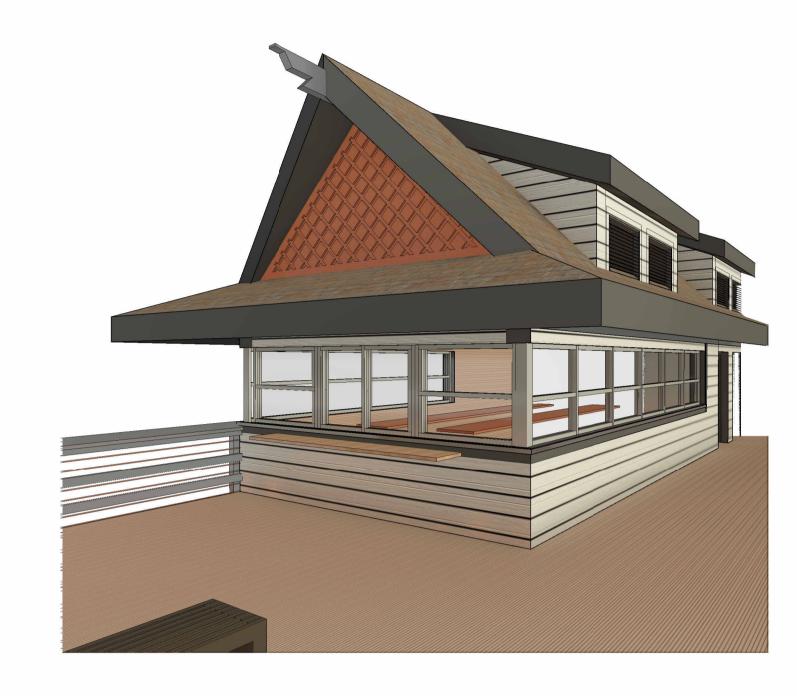
STAIRS DETAILS

PHASE CD PR NO 23118

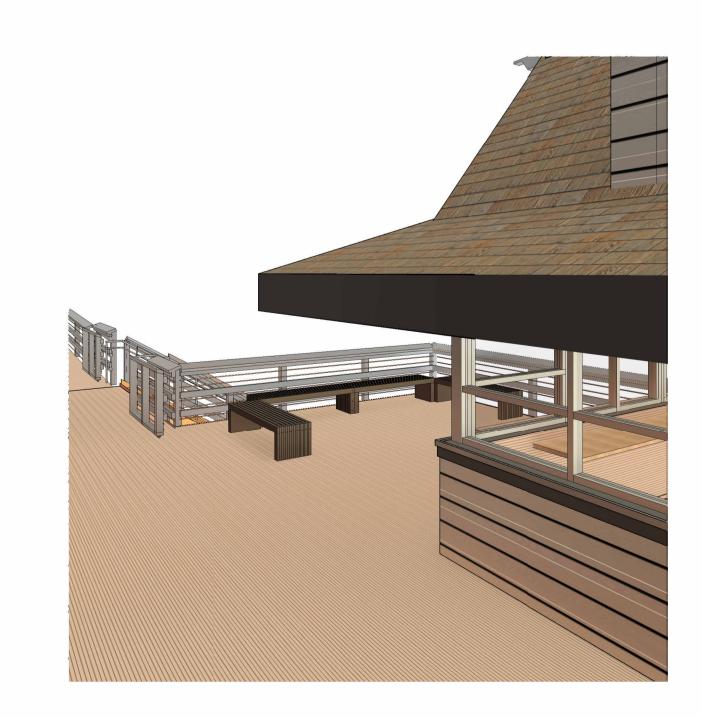
1 SEATING AREA ACCROSS CONCESSIONS



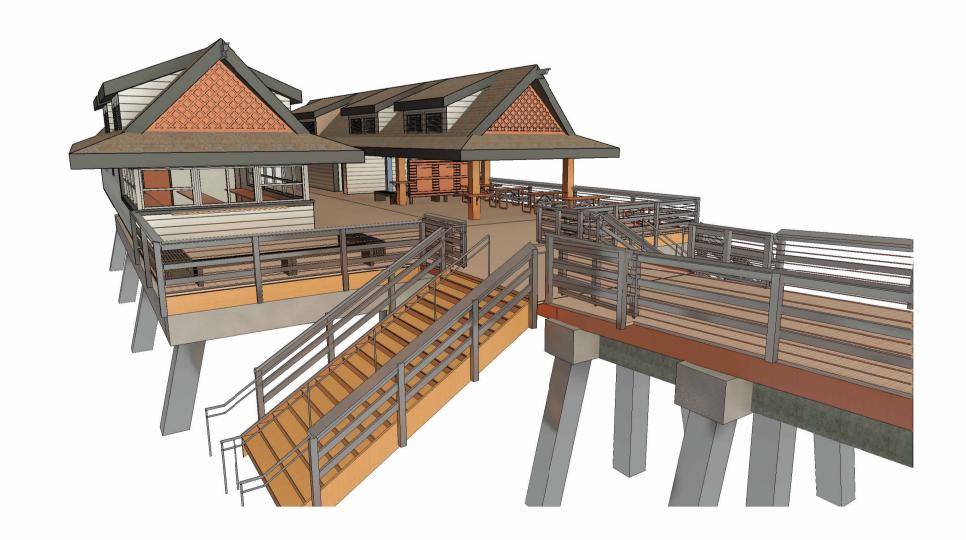
2) 3D VIEW - SHOWERS/GREEN WALL



3 3D VIEW - ORDER AREA AT CONCESSIONS
SCALE:



4 3D - CONCESSIONS SEATING AREA



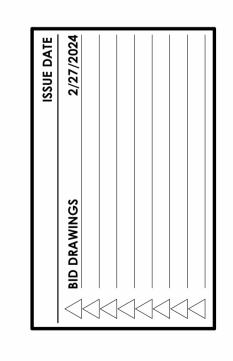
5 SEATING AREA / CONCESSIONS

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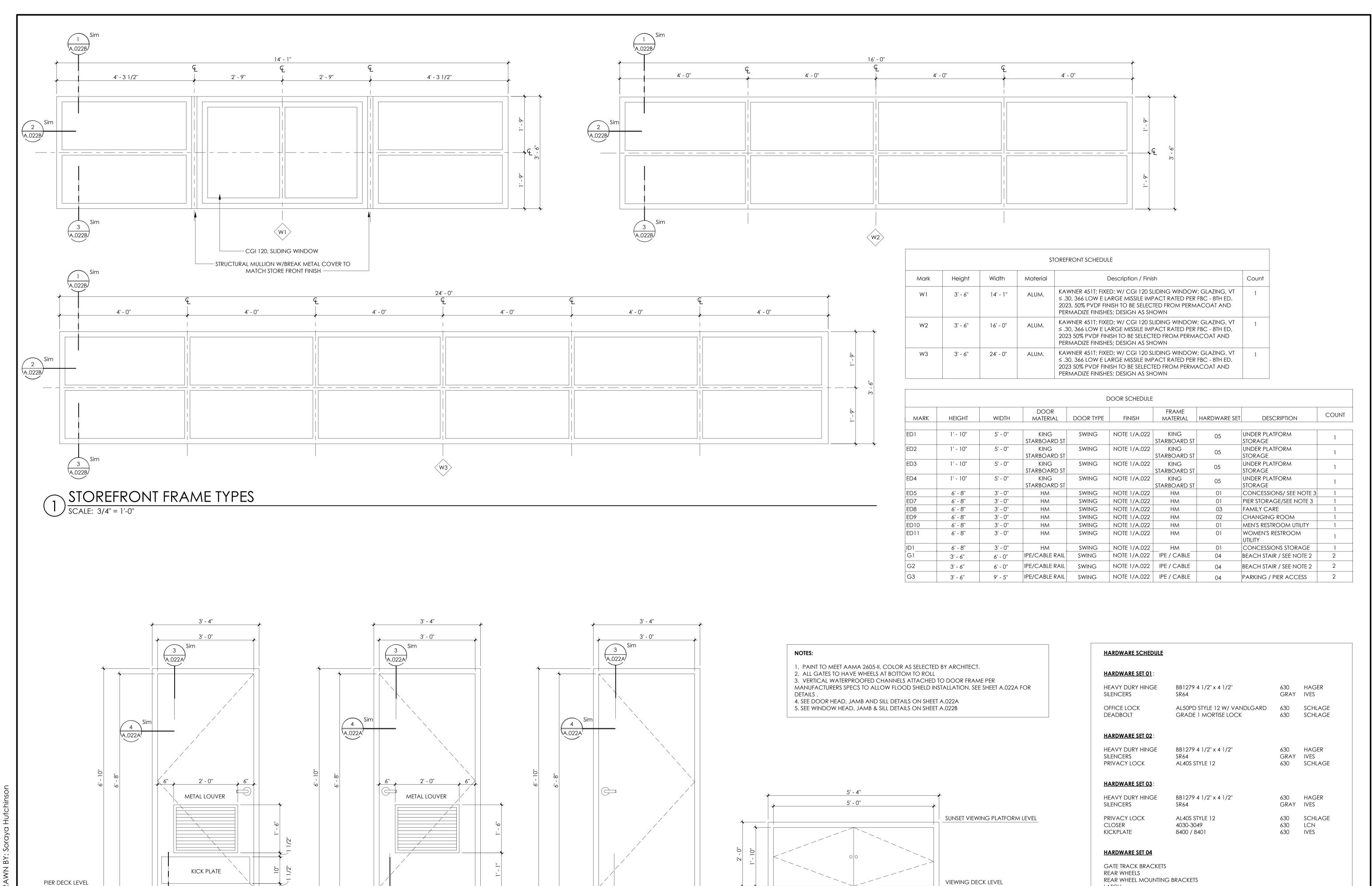
PIER RECONSTRUCTION Ave S., Naples FL 34102

REG# AR 16971



3D VIEWS - PIER DECK ACCESS

PHASE CD PR NO 23118



END PAVILION

GATE LOCKING SYSTEM

HARDWARE SET 05

OFFICE LOCK

DEADBOLT

HEAVY DURY HINGE

BB1279 4 1/2" x 4 1/2"

GRADE 1 MORTISE LOCK

AL50PD STYLE 12 W/ VANDLGARD

630 SCHLAGE

630 SCHLAGE

PIER DECK LEVEL

NO KICK PLATE

2 DOORS & FRAME TYPES

SCALE: 3/4" = 1'-0"

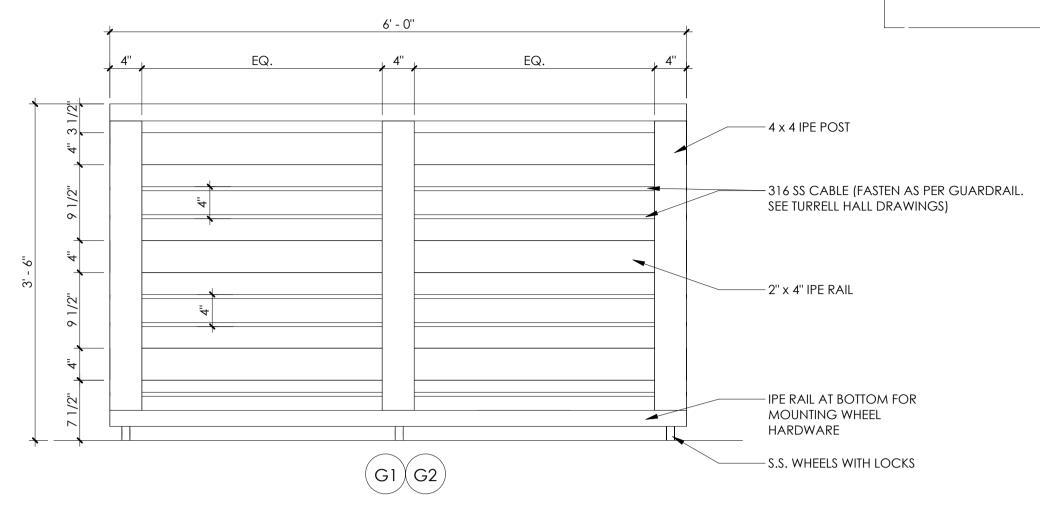
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WINDOW AND DOOR SCHEDULE

PHASE CD PR NO 23118

1. LOCATIONS OF RAILS & CABLE TO MATCH TURRELL HALL DRAWINGS

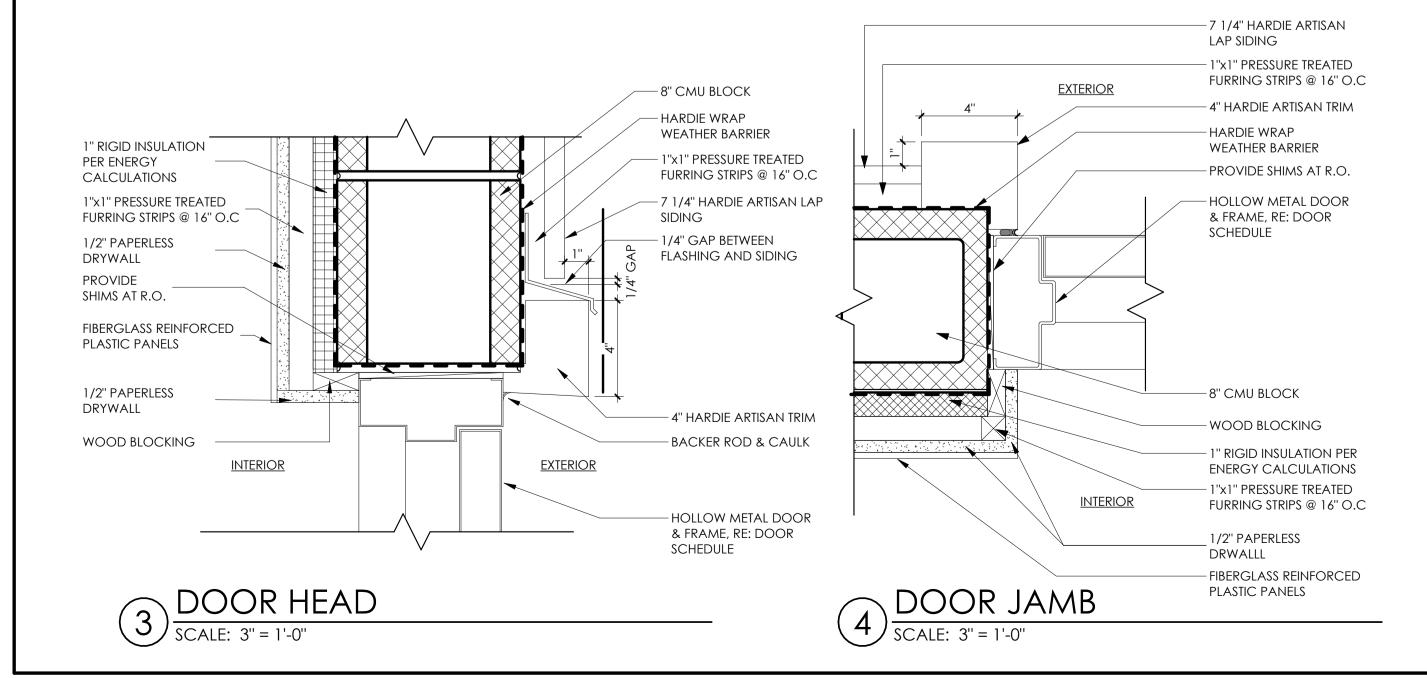
2. PROVIDE STAINLESS STEEL HINGES IN LOCATIONS AS SHOWN ON 1/A.020 FOR ALL GATES.



BEACH STAIR GATE DETAIL

-4 x 4 IPE POST -316 SS CABLE (FASTEN AS PER GUARDRAIL. SEE TURRELL HALL DRAWINGS) - 2" x 4" IPE RAIL - IPE RAIL AT BOTTOM FOR MOUNTING WHEEL HARDWARE **G3** S.S. WHEELS WITH LOCKS

2 PARKING ENTRY - GATE DETAIL SCALE: 1" = 1'-0"

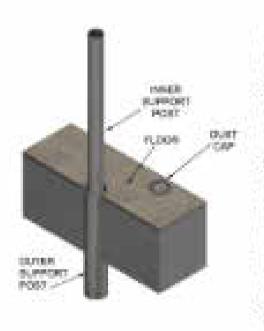


NGP National Guard Products Inc.

Flood Shield

Installation Instructions

- . Position mounting channels with radius corners up, in desired location with larger holes facing exterior.
- 2. With channels vertically aligned, mark screw holes.
- 3. Drill pilot holes for screws using 9/64" drill bit. When using plastic anchor, use 1/4" drill bit.
- 4. Apply continuous bead of waterproof caulk to center of mounting side of channels.
- 5. Install channels with screws provided.
- 6. Caulk bottom outer edges of channels to floor surface.



Optional Support Post: Bore 8" deep hale in floor surface for 1-1/2" O.D., outer support post, tangent to the center of the interior side of the plate, install outer post in hole with top flush with floor surface. Cover with dust cap. When inserting shield, remove dust cap and insert inner support post.

INSIDE MOUNT ORDER SIZE - OPENING SIZE DOOM

Operating Instructions

Inspect channels and floor surface to insure proper working condition.

Inserting Shield: With springs and label facing out, insert bottom of plate into channels.

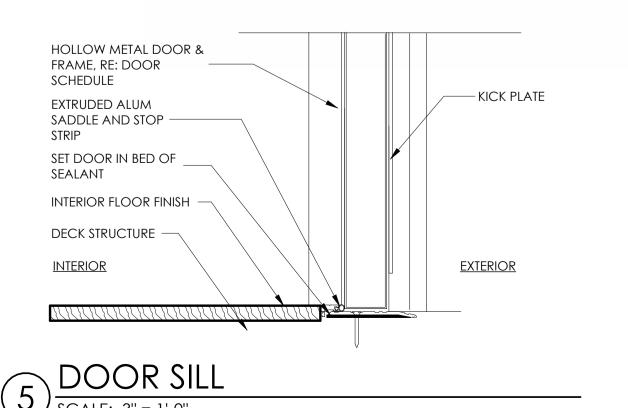
OUTSIDE MOUNT 0000 FRAME FRAME NEOFFERE RUBBER ORDER SIZE = DOOR WIDTH + /C Jappens.

Push outward to compress springs while lowering plate.

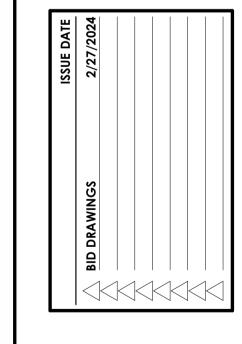
Removing Shield: While compressing springs to remove tension off the gasketing, pull straight up on plate to remove from channel.

Storing Shield: Store the shield plate indoors with no weight against the gasket.

7.19



CONSTRUCTION Naples FL 34102 NAPLES 25 12th /



DOOR DETAILS

PHASE PR NO 23118

A.022A

STOREFRONT HEAD DETAIL

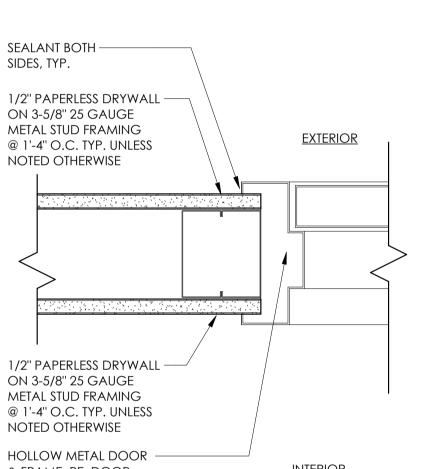
2 STOREFRONT JAMB
SCALE: 3" = 1'-0"

1/2" PAPERLESS DRYWALL ON 3-5/8" 25 GAUGE METAL STUD FRAMING @ 1'-4" O.C. TYP. UNLESS NOTED OTHERWISE - SEALANT BOTH SIDES, TYP. - HOLLOW METAL DOOR & FRAME, RE: DOOR **SCHEDULE EXTERIOR** <u>INTERIOR</u>

– 4" HARDIE SMOOTH 7 1/4" HARDIE ARTISAN LAP siding — — CMU WALL. SEE STRUCTURAL DWGS FOR DETAILS 1"x1" PT FURRING STRIPS ─ BACKER ROD & CAULK @ 12" O.C. **EXTERIOR** HARDIE WRAP WEATHER BARRIER -PROVIDE SHIMS AT R.O. <u>INTERIOR</u> — WOOD BLOCKING FIBERGLASS REINFORCED PLASTIC PANELS — 1/2" PAPERLESS DRYWALL — 1"x1" PT FURRING STRIPS @ 12" O.C. 1" RIGID INSULATION PER ENERGY CALCULATIONS

SEALANT BOTH -SIDES, TYP. 1/2" PAPERLESS DRYWALL — ON 3-5/8" 25 GAUGE METAL STUD FRAMING **EXTERIOR** @ 1'-4" O.C. TYP. UNLESS NOTED OTHERWISE 1/2" PAPERLESS DRYWALL — ON 3-5/8" 25 GAUGE METAL STUD FRAMING @ 1'-4" O.C. TYP. UNLESS NOTED OTHERWISE HOLLOW METAL DOOR <u>INTERIOR</u> & FRAME, RE: DOOR **SCHEDULE**

4 INTERIOR DOOR JAMB
SCALE: 3" = 1'-0"



— KICK PLATE

EXTERIOR



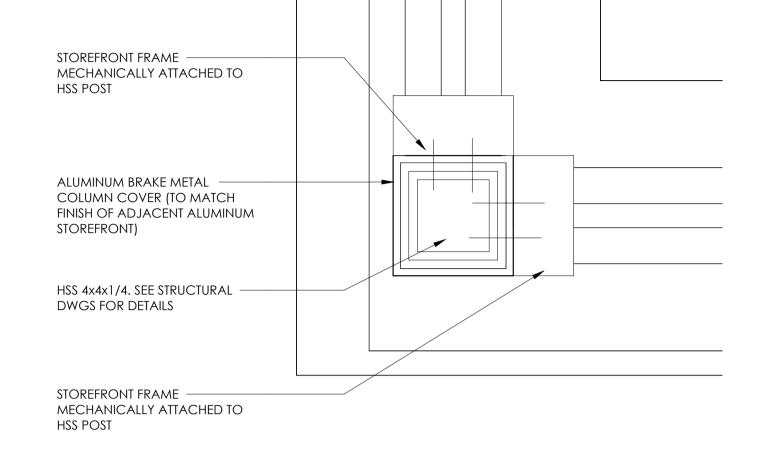
6 INTERIOR DOOR SILL
SCALE: 3" = 1'-0"



FULL DEPTH SOUND ATTENUATION BATTS, TYP. SEALANT BOTH -SIDES, TYP.

5 INTERIOR DOOR HEAD

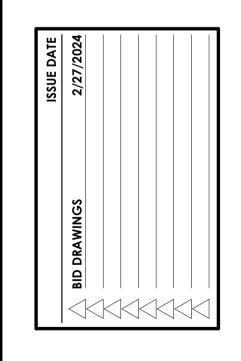
SCALE: 3" = 1'-0"



7 STOREFRONT - POST CONNECTION DETAIL
SCALE: 3" = 1'-0"

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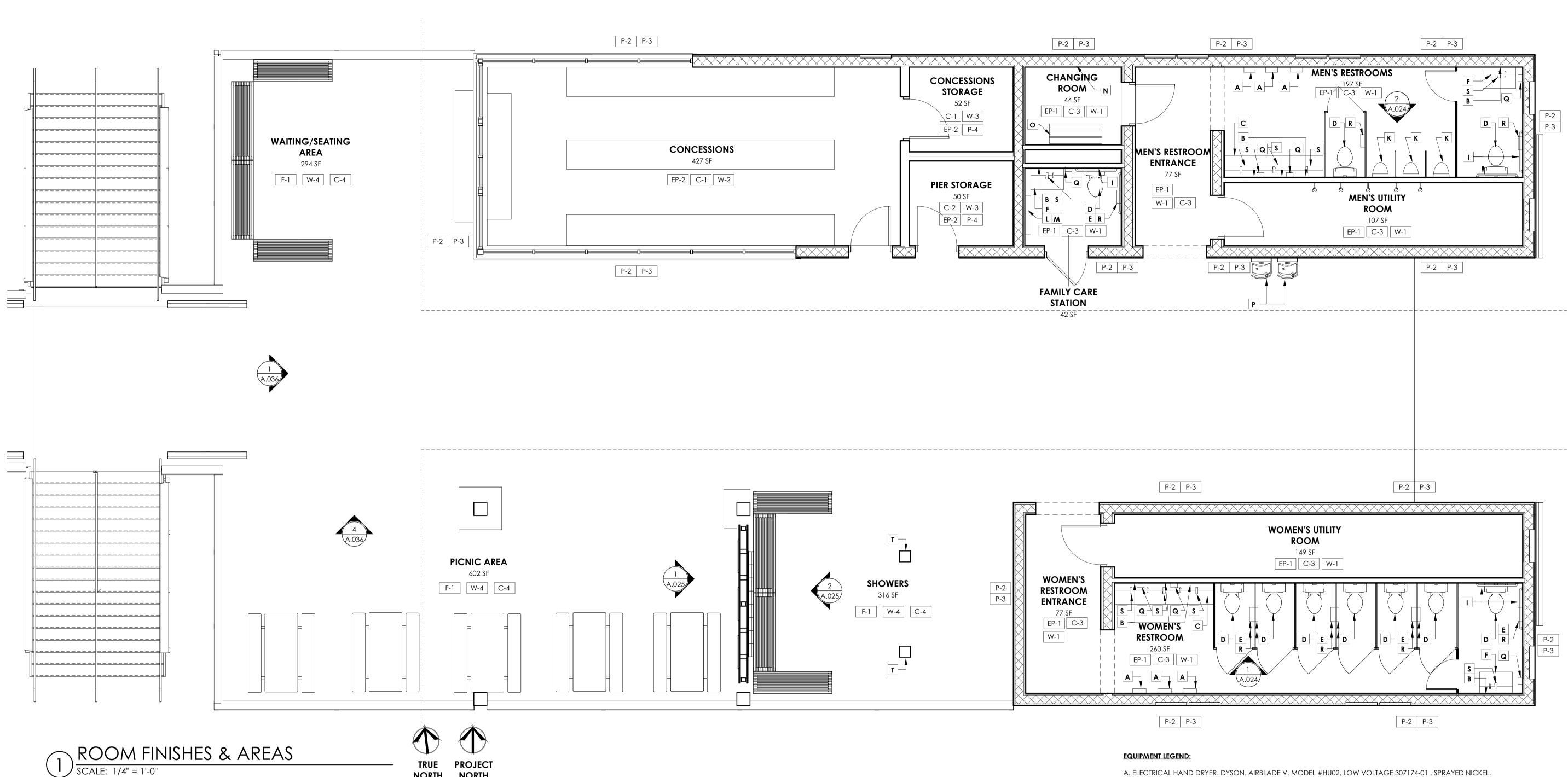
WINDOW DETAILS

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A.022B

PROVIDE SHIMS AT R.O. WOOD BLOCKING -1" RIGID INSULATION PER ENERGY CALCULATIONS 1"x1" PT FURRING STRIPS @ 12" O.C. <u>INTERIOR</u> **EXTERIOR** 1/2" PAPERLESS DRYWALL – 1x" HARDIE TRIM -7 1/4" HARDIE ARTISAN LAP FIBERGLASS REINFORCED PLASTIC PANELS SIDING 1"x1" PT FURRING STRIPS @ 12" O.C. HARDIE WRAP WEATHER BARRIER - CMU WALL, SEE STRUCTURAL

PHASE PR NO 23118



FINISH	<u>SPECIFICATIONS</u>		P-2	PAINT: 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	PAINT: MANUFACTURER: SHERWIN-WILLIAMS	EXTERIOR TRIM	W-3	PAPERLESS DRYWALL, PAINTED
	MACRO-CHIP, MICRO-CHIP, EARTHSTONE, CLAYSTONE DESIGNER FINISHES.			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	PAINT: 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	FLOOR AND 6" COVE BASE	W-1	DUR-A-FLEX DUR-A-WALL VC. WAINSCOT			SUSPENSION SYSTEM
	SELECTED BY ARCHITECT FROM ANY OF 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.			

NORTH NORTH

- A. ELECTRICAL HAND DRYER. DYSON. AIRBLADE V. MODEL #HU02, LOW VOLTAGE 307174-01, SPRAYED NICKEL.
- B. FRAMELESS MIRROR. BOBRICK. B-1556 2436
- 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 # 5901110T.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

G. **NOT USED**

H. **NOT USED**

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

J. **NOT USED**

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 ARCHITECT.

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

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

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

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

T. EXISTING SHOWERS TO BE REMOVED AND REINSTALLED FOR REUSE

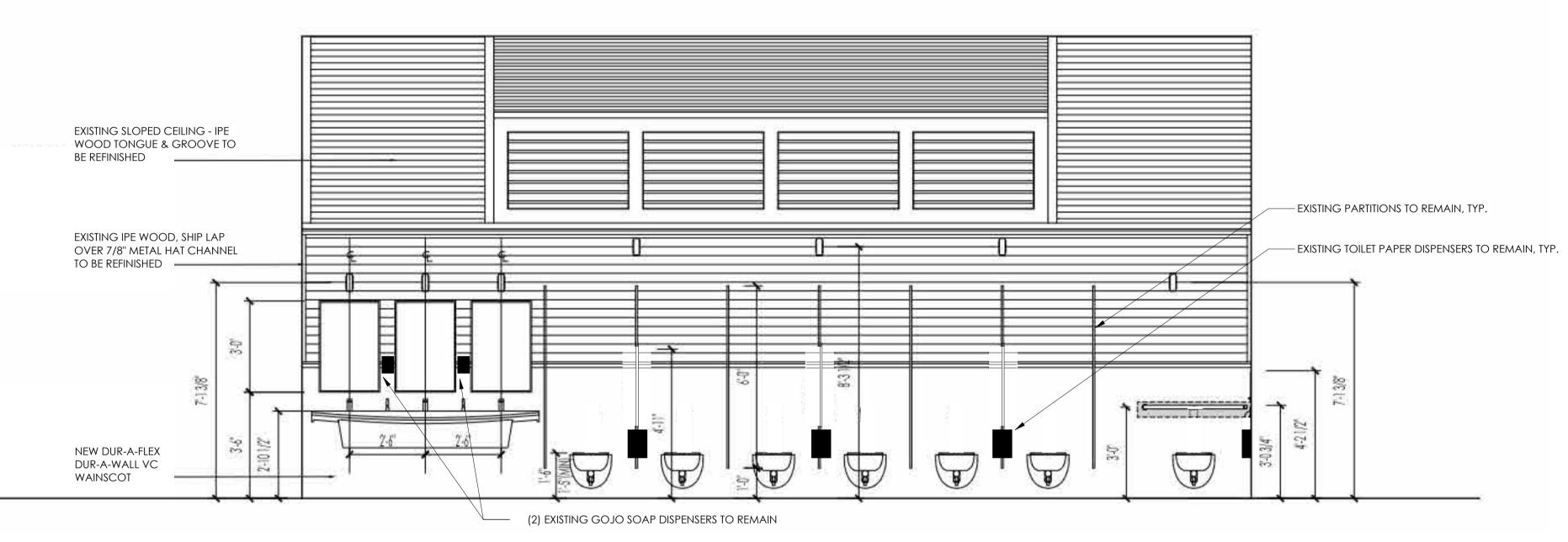
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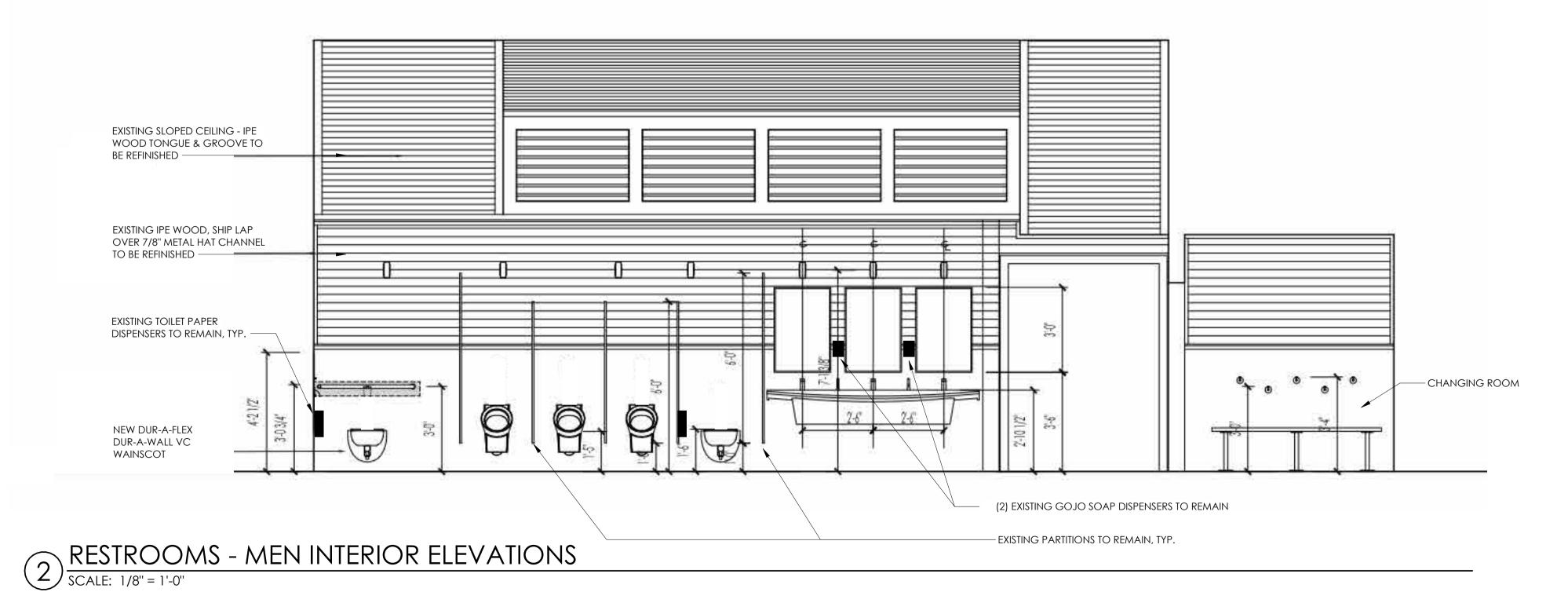
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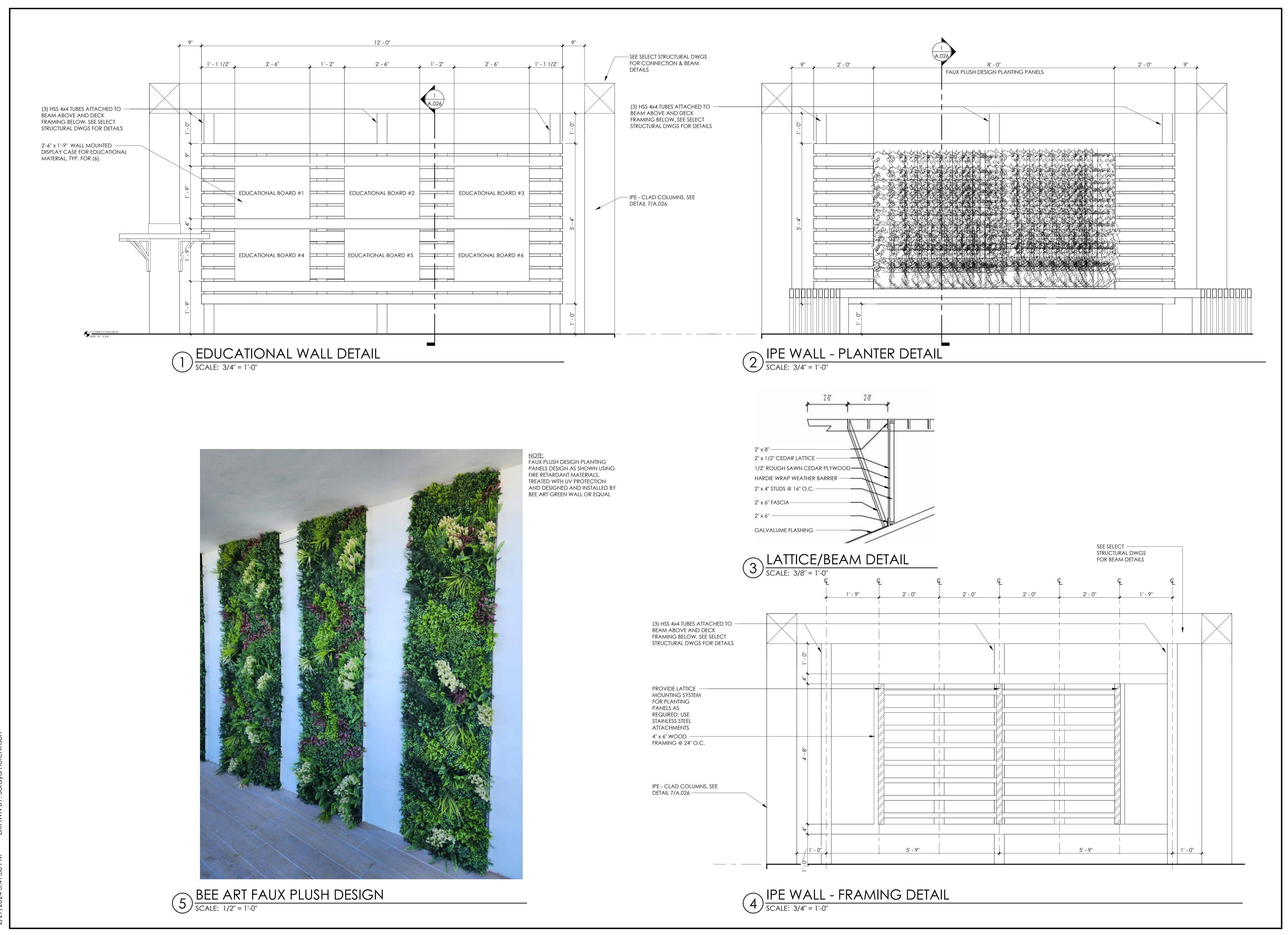
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A.024



WOMEN'S RESTROOMS - INTERIOR FINISHES DETAILS | SCALE: 1/8" = 1'-0"





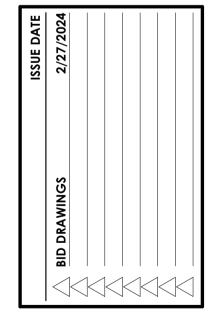
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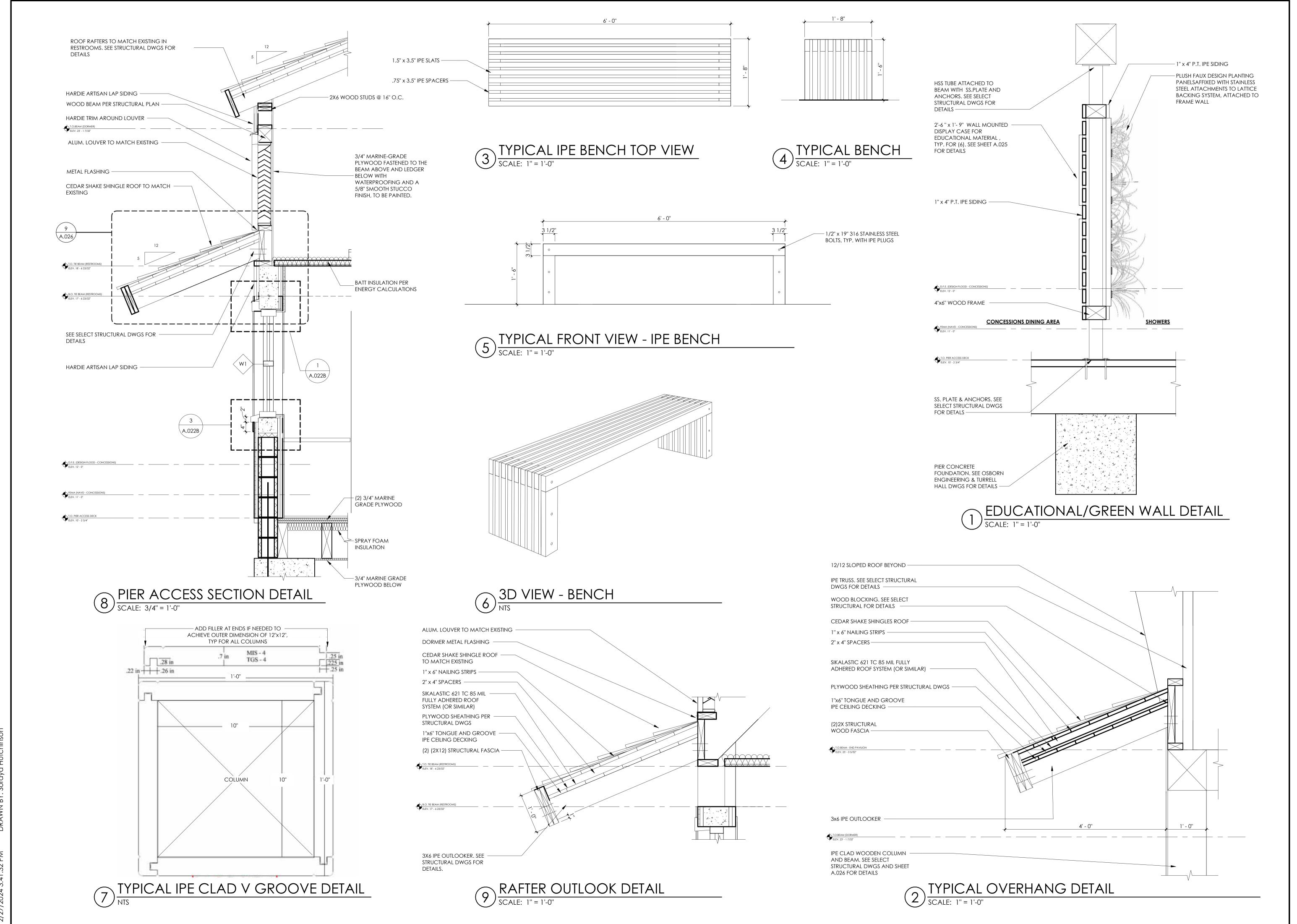
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FLORIDA SEAL REG# AR 16971



DETAILS

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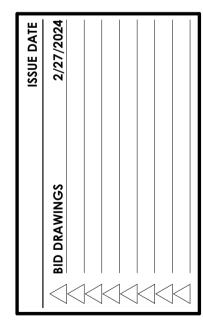
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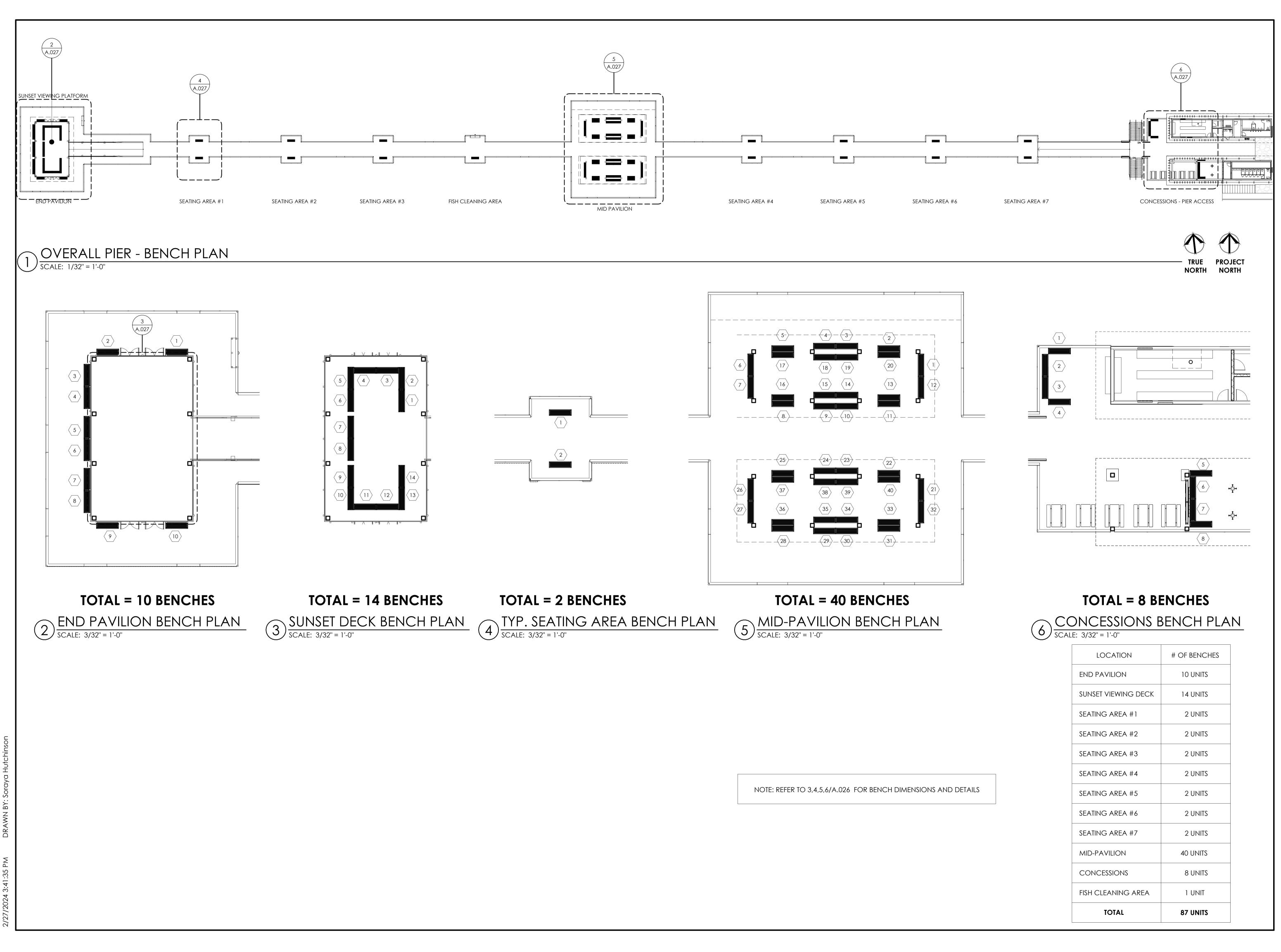
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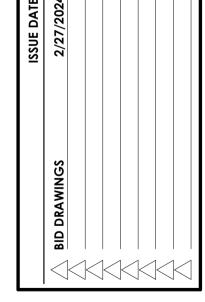
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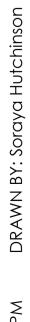
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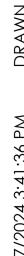


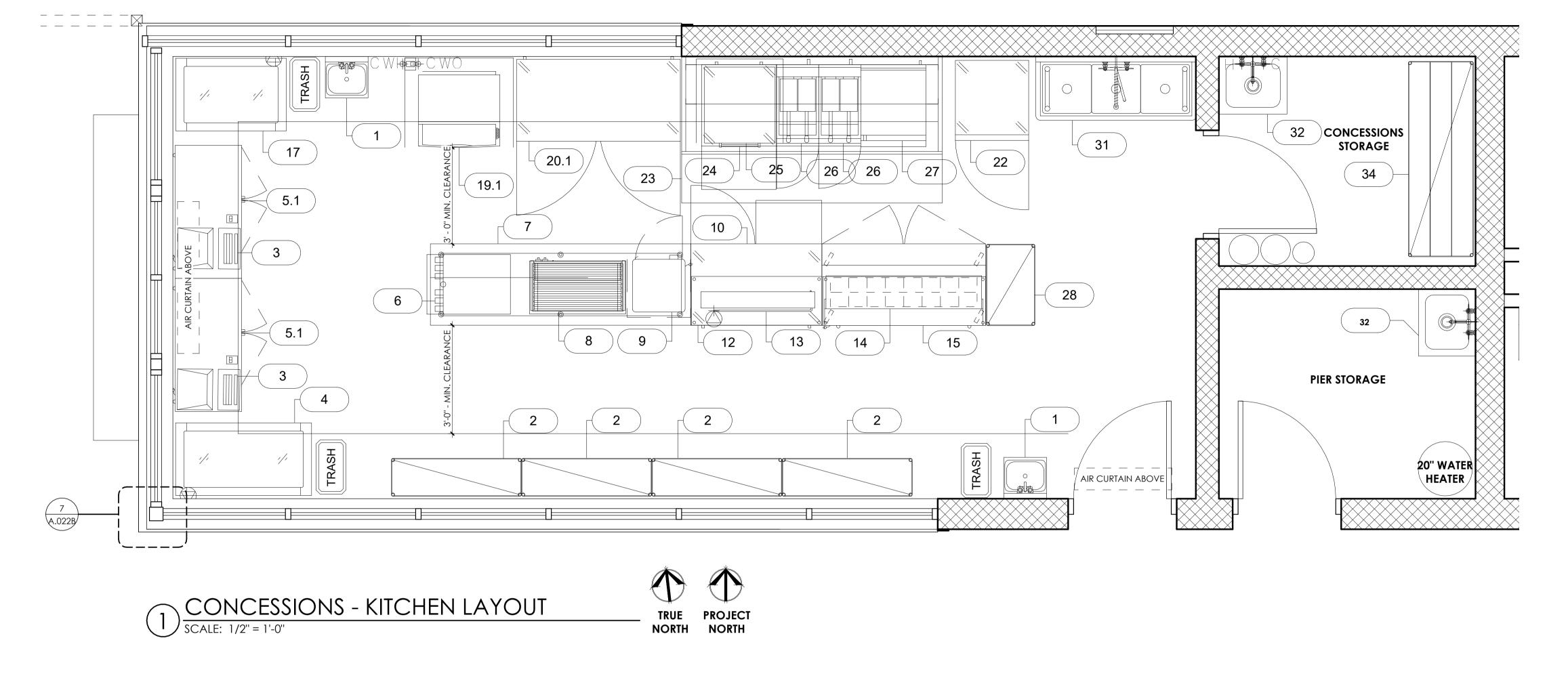
BENCH PLAN

PHASE CD 23118

A.027







									EQUIPN		CHEDU													
										E	LECTRIC/	AL _						PLUM	BING					
ItemNo	Quantity	Unit	Category	Mfr	Model	StockModel	Voltage	Phase	Amps	Cycle	Нр	Kw Connection Type	NEMA	Electrical Connection Height	Cold Water (in) Cold Water Height (Water	Hot Water Conn. Height (in)	Indirect Waste Size	Direct Waste Size	Direct Waste Conn. Height(in)	Gas Size(in)	Gas Conn. Height (Gas (in) MBTU	Special Equipment Remarks
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	Wire Shelving	John Boos	EPS-1448-G-X																			
3	2	ea	POS System	Custom	POS																			NOT IN BID - BY CONCESSIONER
4	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9113		115	1	1.6	60		Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
5.1	2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1	60	1/5	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
6	1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1	3.0	60														NOT IN BID - BY CONCESSIONER
	1	ea		Cornelius	E400397		115	1	6.5	60	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	10.8	60	1	.32 Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
9	1	ea	Display Case, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1	11.6	60	1	.39 Cord & Plug												NOT IN BID - BY CONCESSIONER
10	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1	3	60	1/5	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
11			Spare Number																					SpareNo
12	1	ea	Overshelf	John Boos	OS-ED-1848-X																			
13	1	ea	Heat Lamp	Hatco	GRAH-42-120-T-QS		120	1		60		.95												NOT IN BID - BY CONCESSIONER
14	1	ea	Sandwich / Salad Preparation Refrigerator	True Mfg General Foodservice	TSSU-60-16-HC		115	1	6.5	60	1/3	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
15	1	ea	Overshelf	John Boos	OS-ED-1860-X																			
16			Spare Number																					SpareNo
17	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9110		115	1	1.6	60		Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
18			Spare Number																					SpareNo
19.1	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1	10	60	3/4		5-15P		3/8"			1/2"						NOT IN BID - BY CONCESSIONER
20.1	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4	60	1/4	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
21			Spare Number																					SpareNo
22	1	ea	Reach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60	1/2	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
23			SEE MECH./ELECT./PLUMB. HOOD DWGS.																					
24	1	ea	Pizza Bake Oven, Countertop, Electric	Bakers Pride	P44S		208	1	34.6	60		Cord & Plug	6-50P											NOT IN BID - BY CONCESSIONER
25	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60	1/6	Cord & Plug	5-15P											NOT IN BID - BY CONCESSIONER
26	2	ea	Electric Floor Fryer	Imperial	IFS-40-E						1.	4.0												NOT IN BID - BY CONCESSIONER
	2			Imperial			208	1	68	60		14												
27	1	ea	Griddle, Electric, Countertop	Imperial	ITG-24-E		208	3	29.0	60	8	8.0												NOT IN BID - BY CONCESSIONER
28	5	ea	Wire Shelving	John Boos	EPS-1830-G-X																			
29		1	Spare Number						1															SpareNo
30			Spare Number																					SpareNo
31	1	ea	Three (3) Compartment Sink	John Boos	3B184-X																			'
	1	ea	, , ,	John Boos	3B184-X									1										
	1	ea		John Boos	3B184-X																			
	1	ea		Krowne	18-708L										1/2"	1/2"								
32	2	ea	Mop Sink	Krowne	MS-2424														2"					
	1	ea		Krowne	16-127										1/2"	1/2"								
34	5	ea	Wire Shelving	John Boos	EPS-2472-G-X																			
	1		<u>, </u>	I.		1	1	1	1	1	i I		1	1	1		1	1	1				1	1

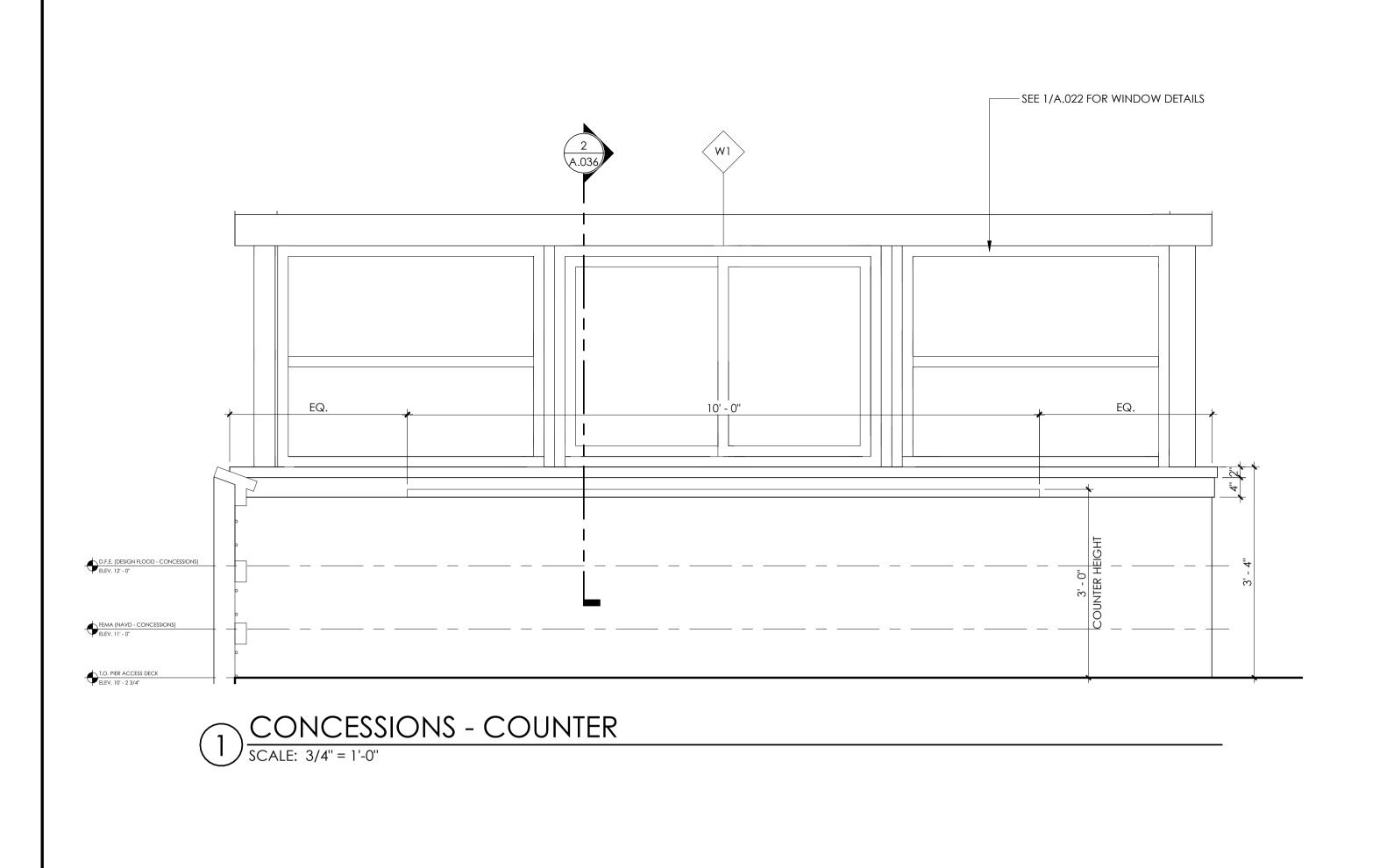
KITCHEN EQUIPMENT SCHEDULE

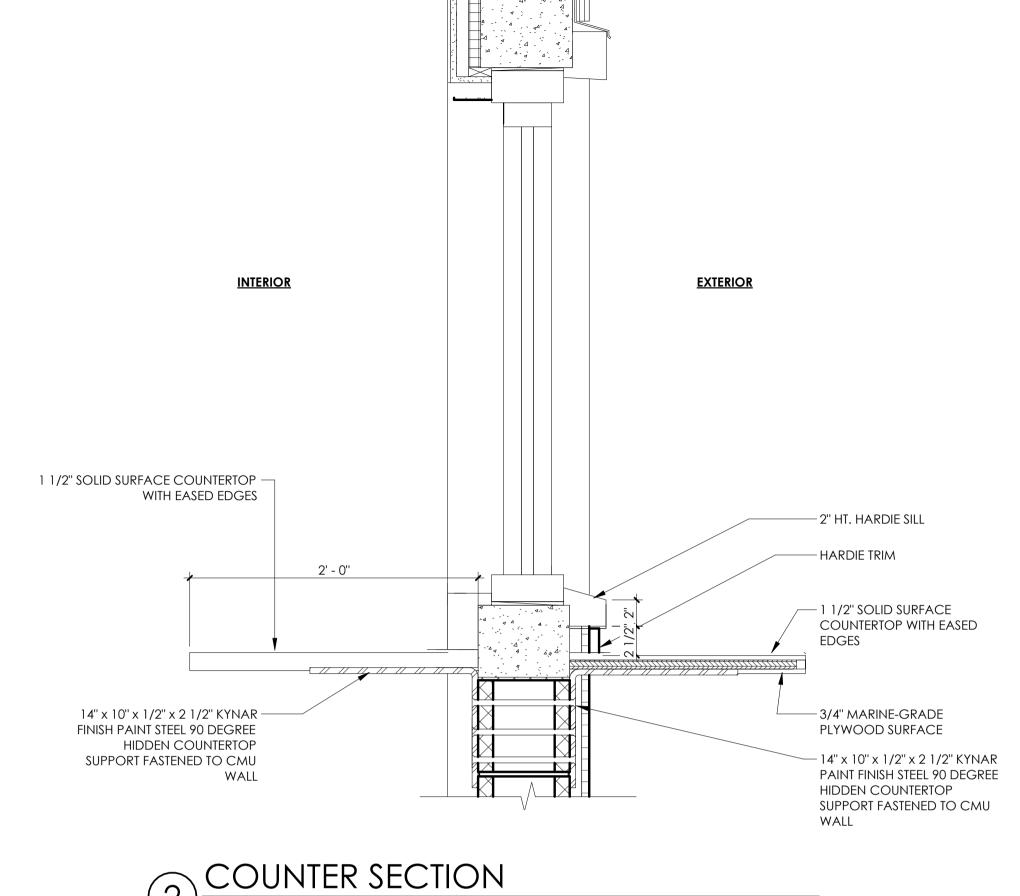
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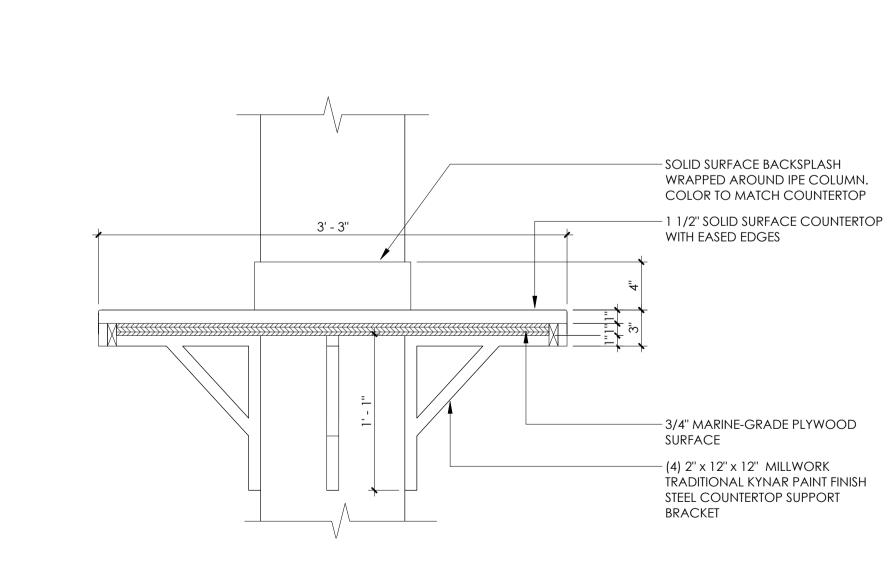
CONCESSIONS -KITCHEN FLOOR

PHASE CD PR NO 23118



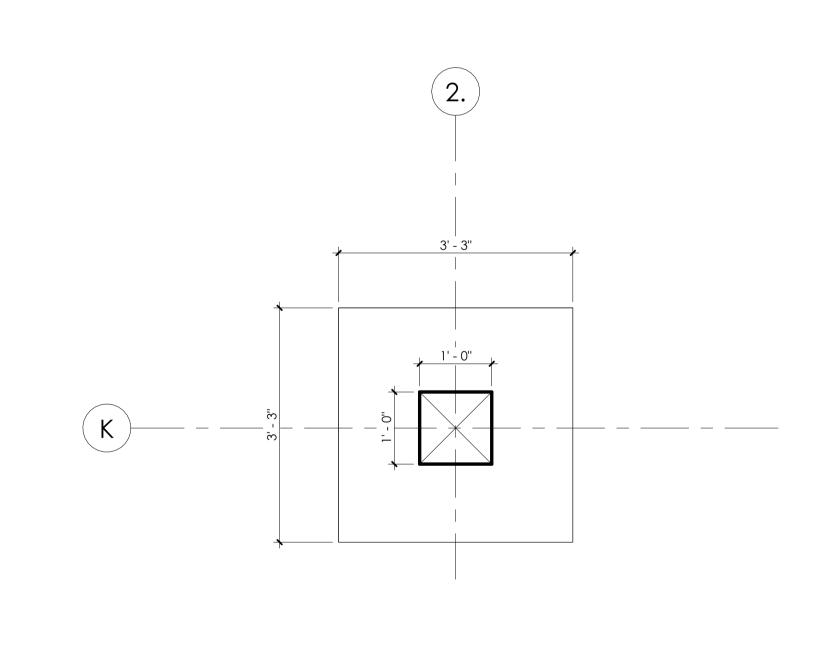


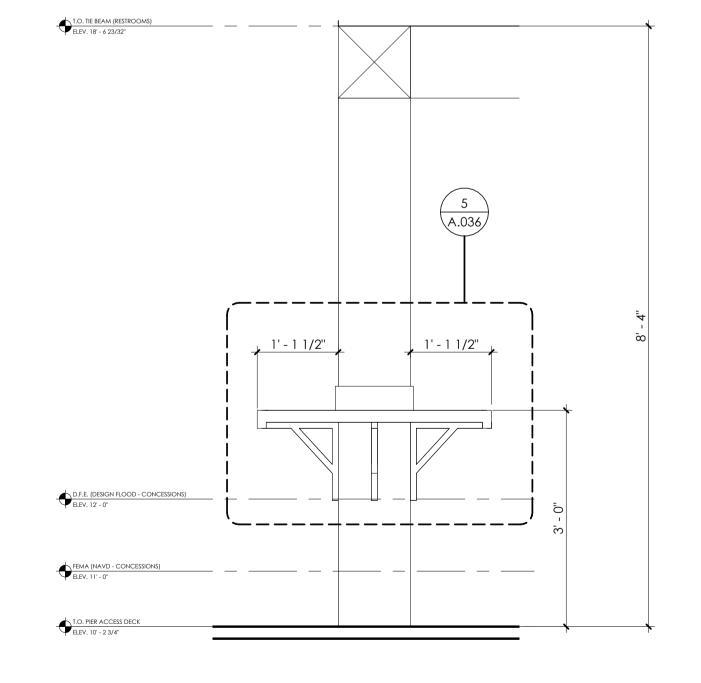




5 COUNTER @ COLUMN - DETAIL

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





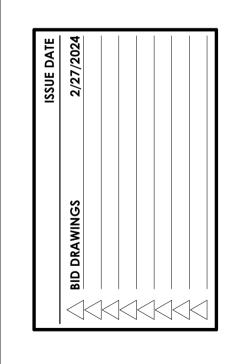




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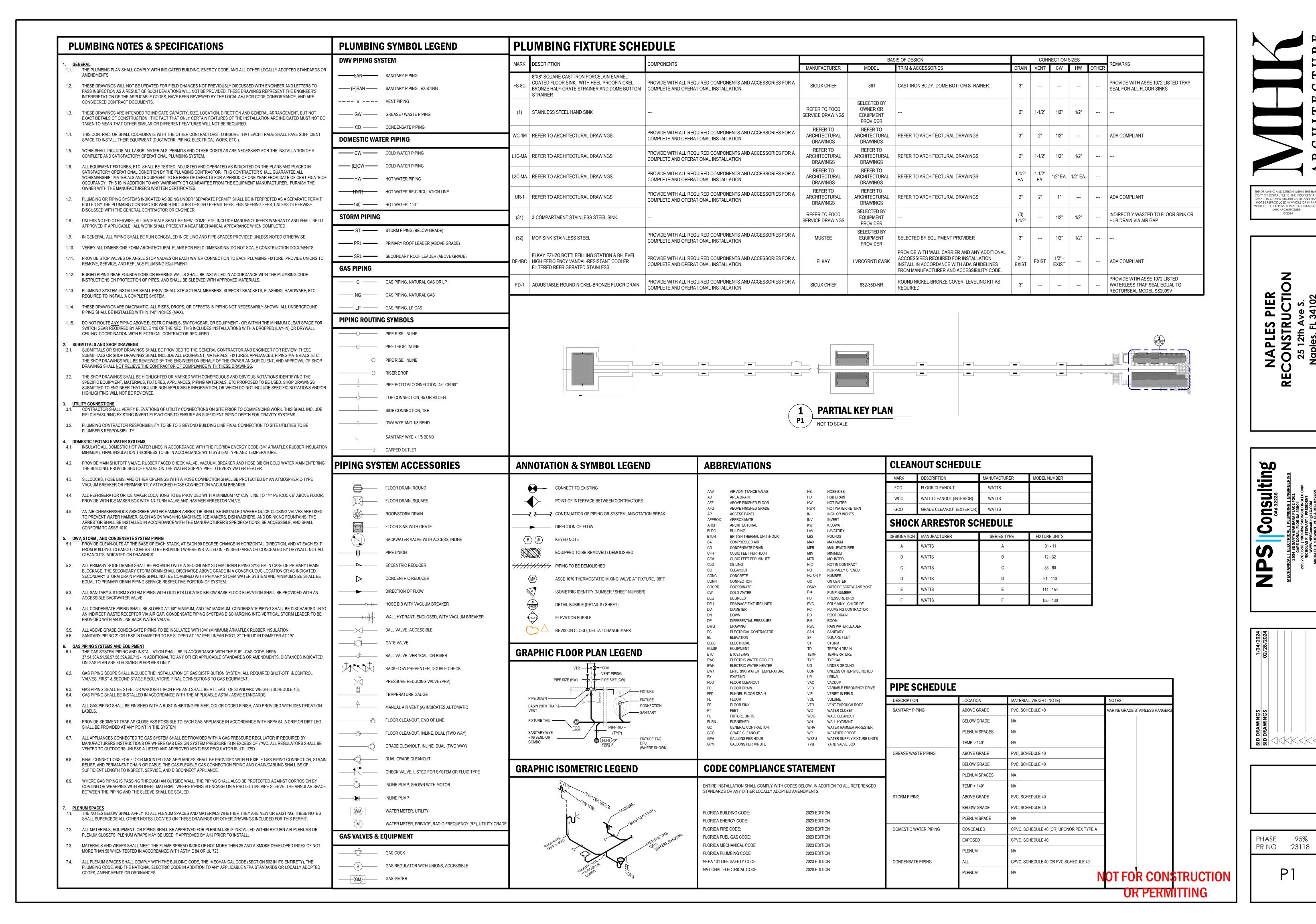
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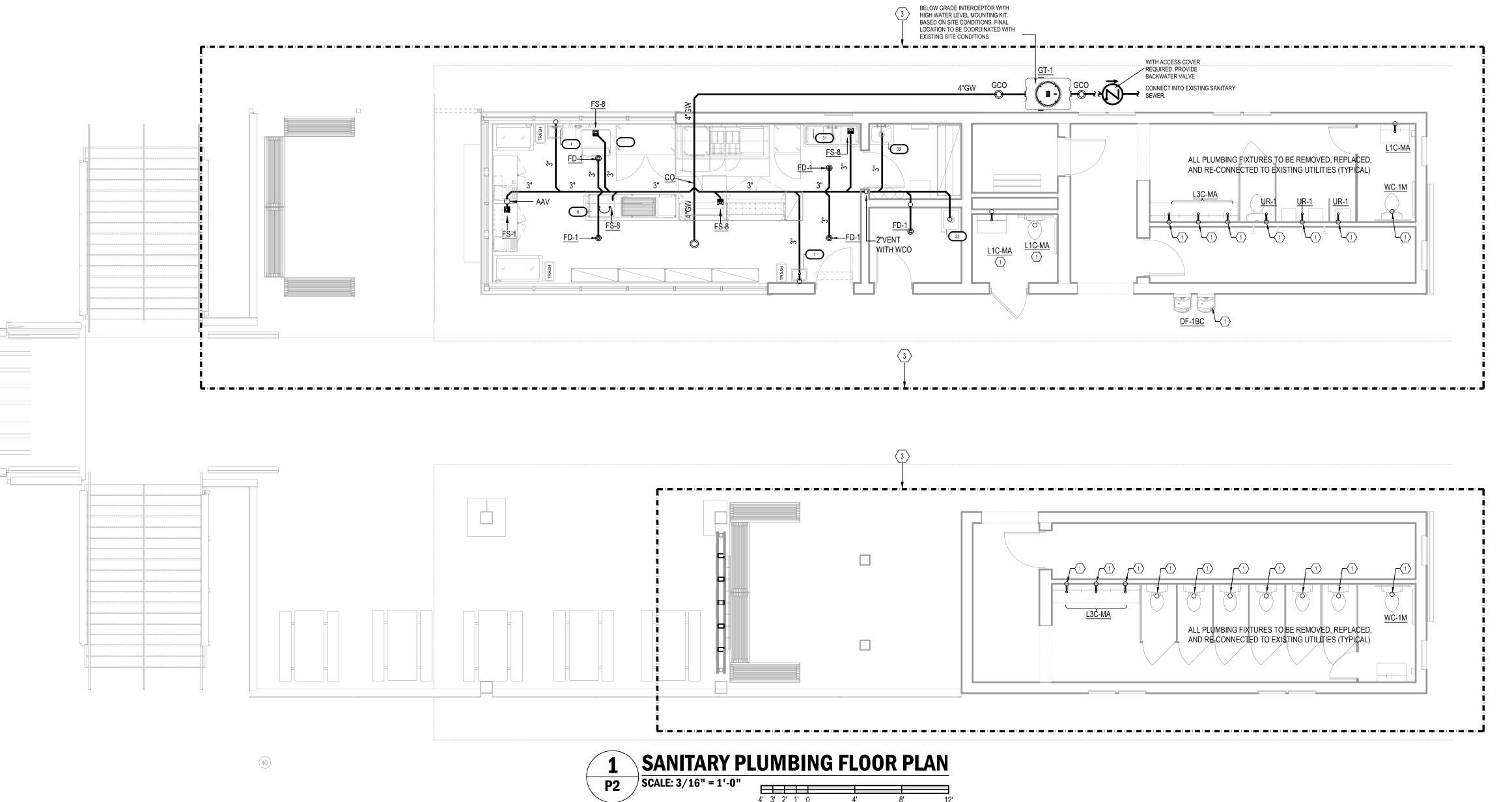
ECONSTRUCTION Naples FL 34102



CONCESSIONS DINING AREA DETAILS

PHASE CD PR NO 23118





KEYED SHEET NOTES

REMOVE EXISTING PLUMBING FIXTURE AND REPLACE WITH NEW. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR COMPLETE ISNTALLATION

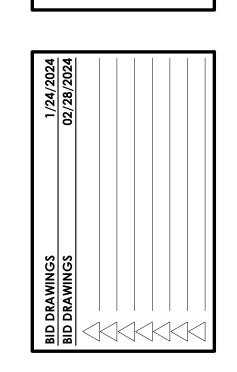
② OMITTED

(3) LIMIT 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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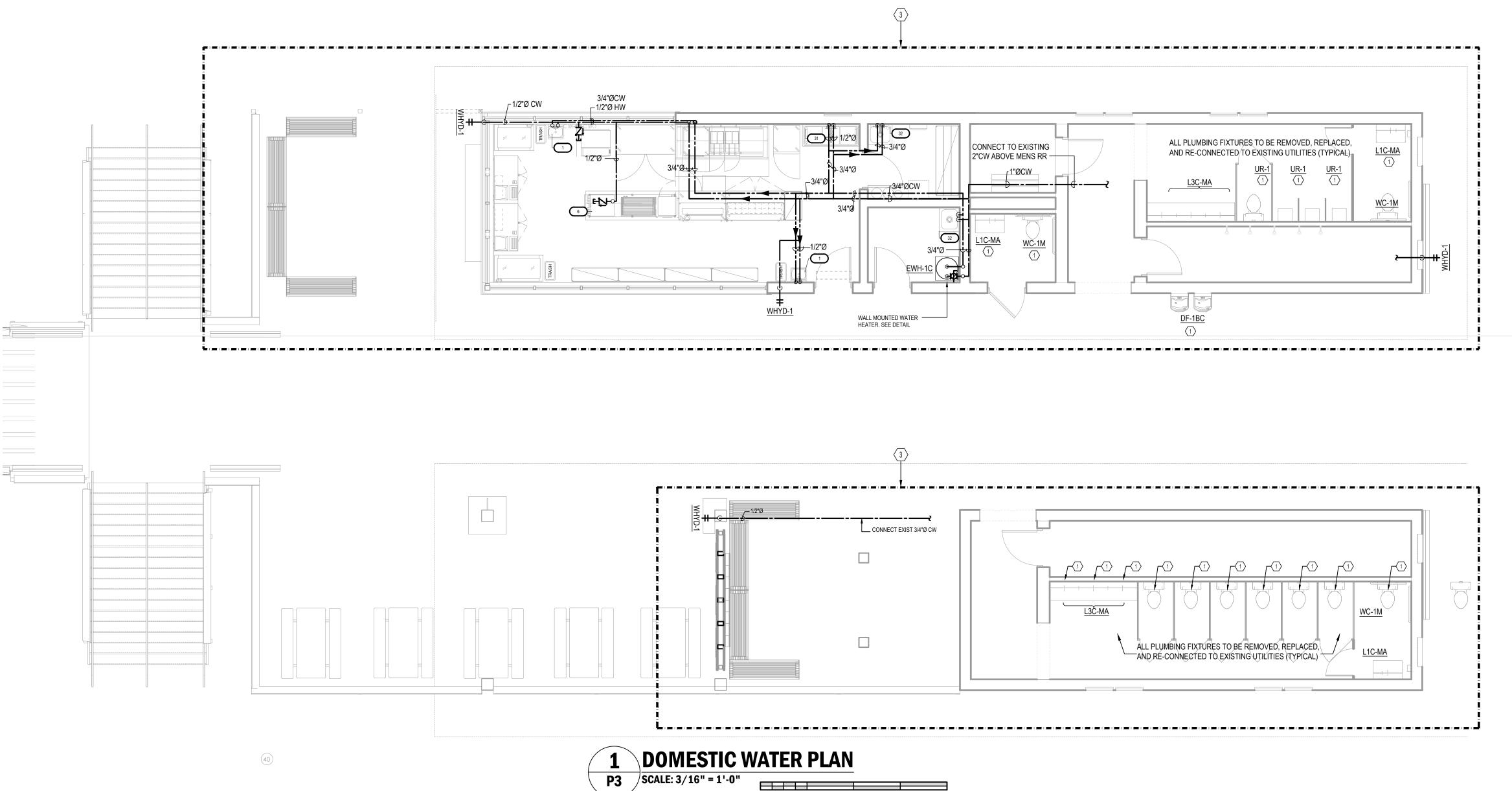
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												EQUIPMEN1	SCHEDULE									
										ELECTRICAL							PLUMBING	;				
ItemNo Quan	tity Uni	t Category	Mfr	Model	StockMod	del Voltage	Phase A	mps C	ycle Hp	Kw Connection	ype NEMA	ElectricalConnectionHeight	Cold Water (in)	Cold Water Conn. Height(in)	Hot Water (in)	Hot Water Conn. Height(in)	Indirect Waste Size	Direct Waste Size) Gas Size(in) G	GasConn.Height(in)	Gas MBTU Special	Equipment Remar
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	POS System	Custom	POS																		
4 1	ea	Chest Freezer	Atosa USA, Inc.	MMF9113		115	1	1.6	60		0											
.1 2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1	60 1/5	Cord & Pl	ig 5-15F											
1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1	3.0	30													
1	ea		Cornelius	E400397		115	1	6.5	60 1/3													
1	ea	Work Table, Stainless Steel Top	Advance Tabco	SLAG-308-X																		
1	ea	Hot Dog Grill	APW Wyott	HR-50		120	1	10.8	60	1.32 Cord & Pl	ig 5-15F											
1	ea	Display Case, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1	11.6	60	1.39 Cord & Pl	ıg											
) 1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1	3	60 1/5	Cord & Pl	ig 5-15F											
1		Spare Number																			SpareNo	
2 1	ea	Overshelf	John Boos	OS-ED-1848-X																		
3 1	ea	Heat Lamp	Hatco	GRAH-42-120-T-QS		120	1		60	.95												
1	ea	Sandwich / Salad Preparation Refrigerator	O O	TSSU-60-16-HC		115	1	6.5	60 1/3	Cord & Pl	ig 5-15F											
1	ea	Overshelf	John Boos	OS-ED-1860-X																		
5		Spare Number																			SpareNo	
1	ea	Chest Freezer	Atosa USA, Inc.	MMF9110		115	1	1.6	60	Cord & Pli	ig 5-15F											
3		Spare Number																			SpareNo	
.1 1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1	10	3/4		5-15F		3/8"				1/2"					
1 1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4	60 1/4	Cord & Pl	ig 5-15F											
		Spare Number																			SpareNo	
1	ea	Reach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60 1/2	Cord & Pl	ig 5-15F											
1	ea		Accurex																			
1	ea	Pizza Bake Oven, Countertop, Electric	Bakers Pride	P44S		208	1 :	34.6	60	Cord & Pl	ig 6-50F											
1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60 1/6	Cord & Pl	ig 5-15F											
2	ea	Electric Floor Fryer	Imperial	IFS-40-E						14.0												
2			Imperial			208	1	68	60	14												
1	ea	Griddle, Electric, Countertop	Imperial	ITG-24-E		208	3	29.0	60	8.0												
5	ea	Wire Shelving	John Boos	EPS-1830-G-X																		
)		Spare Number																			SpareNo	
)		Spare Number																			SpareNo	
1 1	ea		John Boos	3B184-X		1							1		1							
1	ea	(-)	John Boos	3B184-X	1					 		1	+	1		1						
1	ea		John Boos	3B184-X																		
1	ea		Krowne	18-708L									1/2"		1/2"							
2 1	ea	Mop Sink	Krowne	MS-2424														2"				
1	ea		Krowne	16-127									1/2"		1/2"							
3 1	ea	Booster Heater, Tankless, Electric	Hubbell	JTX031-6RS		208	1	149	60	31					3/4"							
0.4	1 -	Wire Shelving	John Boos	EDC 2472 C V	1		1						1		1		1	1	1 1		1	



														EQUIPMENT SCHEDULE								
												ECTRICAL					PLUMBING					
ItemNo	Quantity	Unit	Category	Mfr	Model	StockModel	Voltage	Phase /	mps C	Cycle I	Hp Kw	ConnectionType	e NEM/	ElectricalConnectionHeight Cold Water (in)	old Water Conn. Height(in) F	1 1 1	Indirect Waste Size		Direct Waste Conn. Height(in) Gas Size(in)	GasConn.Height(in)	Gas MBTU Speci	al Equipment Remark
1	2	ea	Hand Sink	Krowne	HS-26L				-		-			1/2"		1/2"		1-1/2"				
_	2	ea	145 OL 1	Krowne	H-100													1-1/2"				
2	12	ea	Wire Shelving POS System	John Boos	EPS-1448-G-X																	
3	2	ea		Custom	POS							0 10 01										
4	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9113		115	1	1.6			Cord & Plug	5-15F									
5.1	2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1		1/5	Cord & Plug	5-15F									
6	1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1	3.0													
	1	ea		Cornelius	E400397		115	1	6.5	60 1	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	10.8		1.32	Cord & Plug	5-15F									
9	1	ea	Display Case, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1	11.6		1.39	3										
10	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1	3	60 1	1/5	Cord & Plug	5-15F									
11			Spare Number																		Sparel	No
12	1	ea	Overshelf	John Boos	OS-ED-1848-X																	
13	1	ea	Heat Lamp	Hatco	GRAH-42-120-T-QS		120	1			.95											
14	1	ea 🤅	Sandwich / Salad Preparation Refrigerator	True Mfg General Foodservice	TSSU-60-16-HC		115	1	6.5	60 1	1/3	Cord & Plug	5-15F									
15	1	ea	Overshelf	John Boos	OS-ED-1860-X																	NI NI
16			Spare Number	44 1104								0 10 01									Sparel	NO
17	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9110		115	1	1.6	60		Cord & Plug	5-15F									
18			Spare Number																		Sparel	No
19.1	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1		60 3			5-15F	3/8"			1/2"					
20.1	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4	60 1	1/4	Cord & Plug	5-15F									
21			Spare Number																		Sparel	No
22	1	ea	Reach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60 1	1/2	Cord & Plug	5-15F									
23	1	ea	B: B 0 0 1 1 1 1 1 1 1 1	Accurex								0 10 01										
24	1	ea	Pizza Bake Oven, Countertop, Electric	Bakers Pride	P44S		208	1	34.6			Cord & Plug										
25	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60 1		Cord & Plug	5-15F									
26	2	ea	Electric Floor Fryer	Imperial	IFS-40-E						14.0											
	2			Imperial			208	1	68		14											
27	1	ea	Griddle, Electric, Countertop	Imperial	ITG-24-E		208	3	29.0	60	8.0											
28	5	ea	Wire Shelving	John Boos	EPS-1830-G-X																	
29			Spare Number																		Sparel	
30			Spare Number																		Sparel	No
31	1	ea	Three (3) Compartment Sink	John Boos	3B184-X																	
	1	ea		John Boos	3B184-X																	
	11	ea		John Boos	3B184-X 18-708I									1/2"		4 /01						
32	1	ea	Mop Sink	Krowne Krowne	18-708L MS-2424	+						+	+	1/2"		1/2"		0"			+ + + + + + + + + + + + + + + + + + + +	
32	1	ea	wop Sink	Krowne	MS-2424 16-127									1/2"		1/2"		2"				
33	1	ea	Booster Heater, Tankless, Electric	Hubbell	JTX031-6RS		208	1	1/10	60	31			1/2"		3/4"						
24		ca	Wiss Obstains	Iohn Boos	EDS 2472 G Y		200	I	1-3	00	31					UIT				-	1	

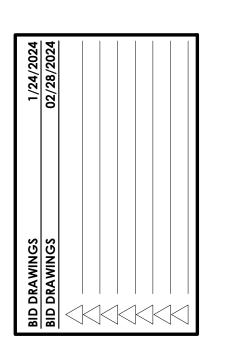
KEYED SHEET NOTES

- REMOVE EXISTING PLUMBING FIXTURE AND REPLACE WITH NEW. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION. PROVIDE WITH NEW QUARTER-TURN SUPPLY VALVES.
- (2) OMITTED
- 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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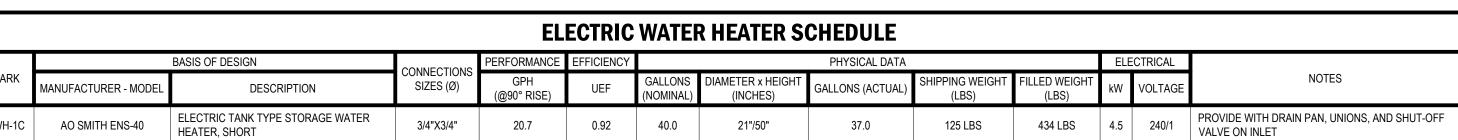
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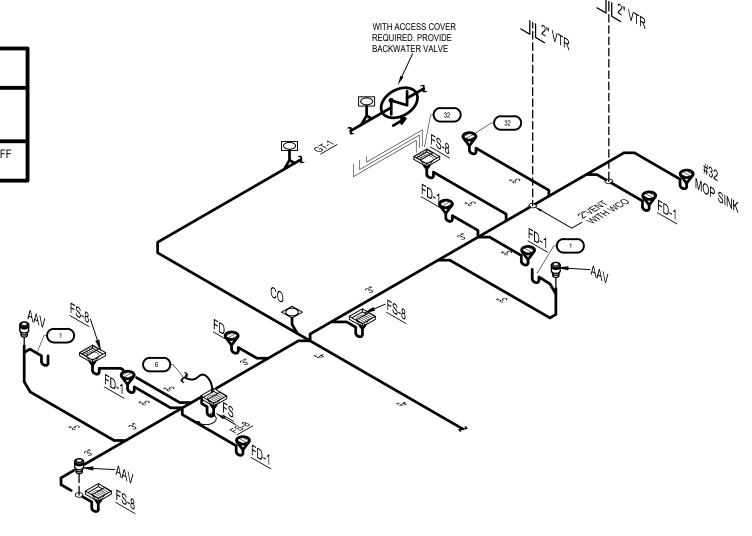
PHASE 95% PR NO 23118

P2A

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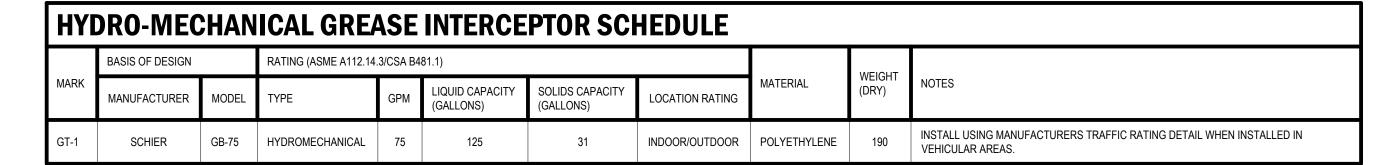


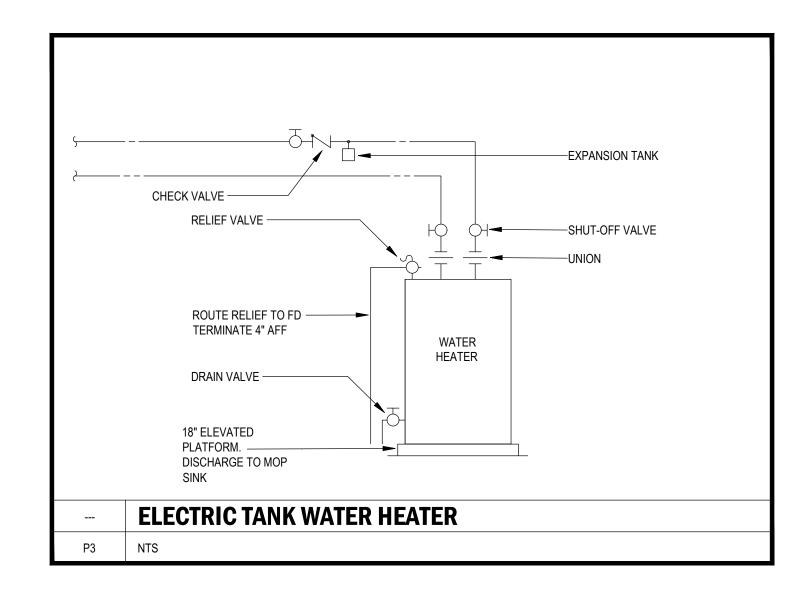
			PDI G101 FIXTU	RE FLOW RATE E	BY VOLUME			
		FOR	RMULA A: GPM =	((W)x(L)x(D)x(Cn)	x(Cm)x(Qn))/231			
TAG OR IDENTITY	DESCRIPTION	(W) WIDTH	(L) LENGTH	(D) DEPTH	(Cn) NUMBER OF COMPARTMENTS	(Cm) CAPACITY MULTIPLIER	(Qn) FIXTURE QUANTITY	CUBIC INCHES
1	3 COMPARTMENT SINK	18	18	14	3	0.75	1	10206
2	HAND SINK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

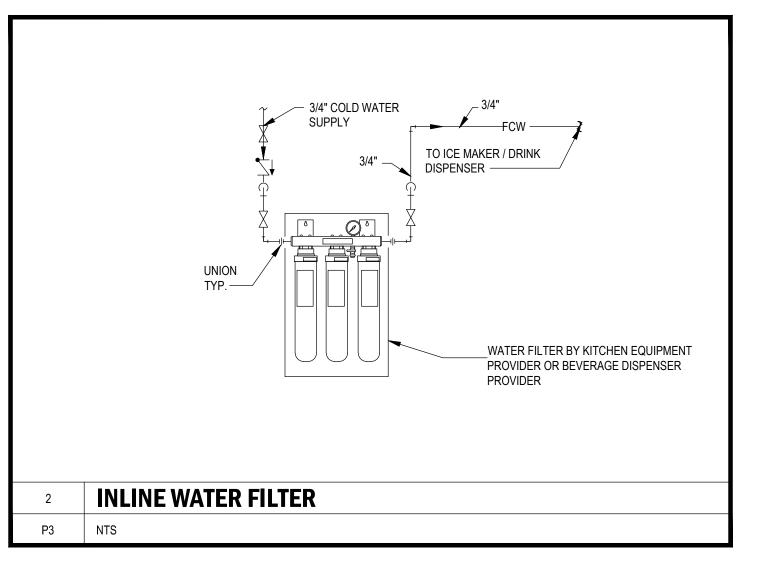


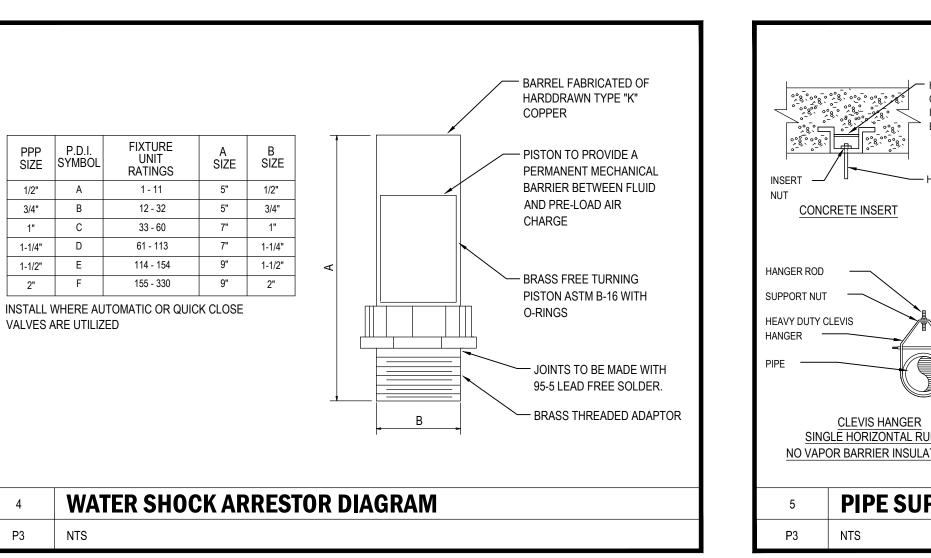
SANITARY ISOMETRIC

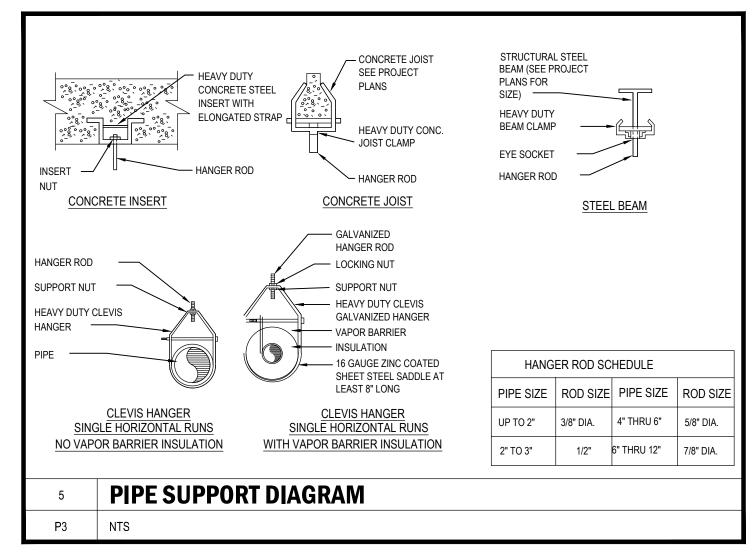
SCALE: NOT TO SCALE

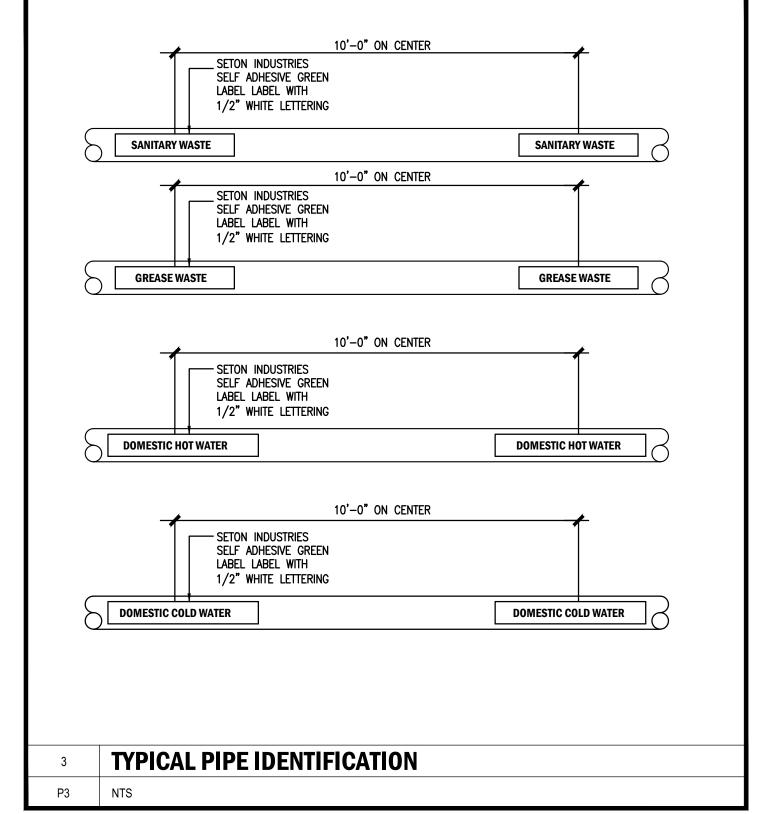


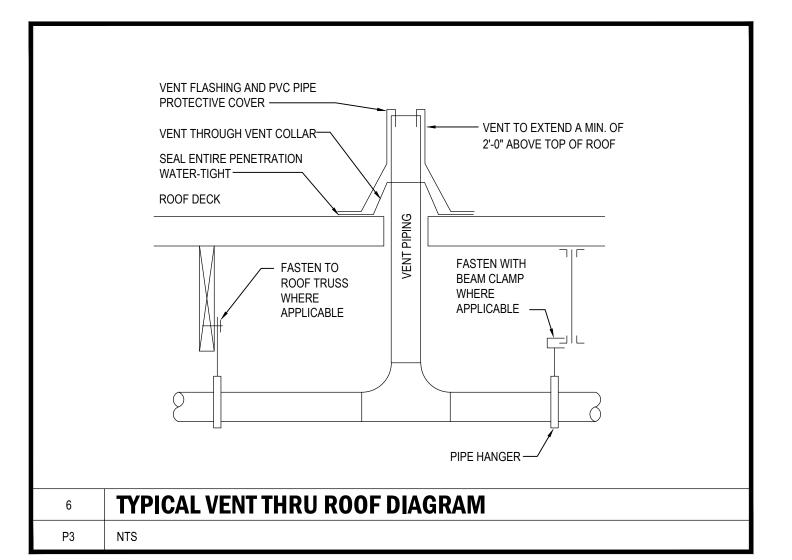




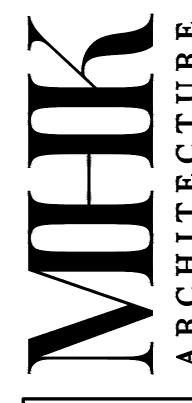




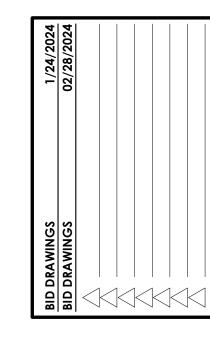


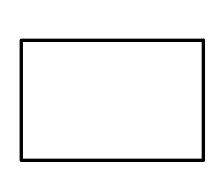


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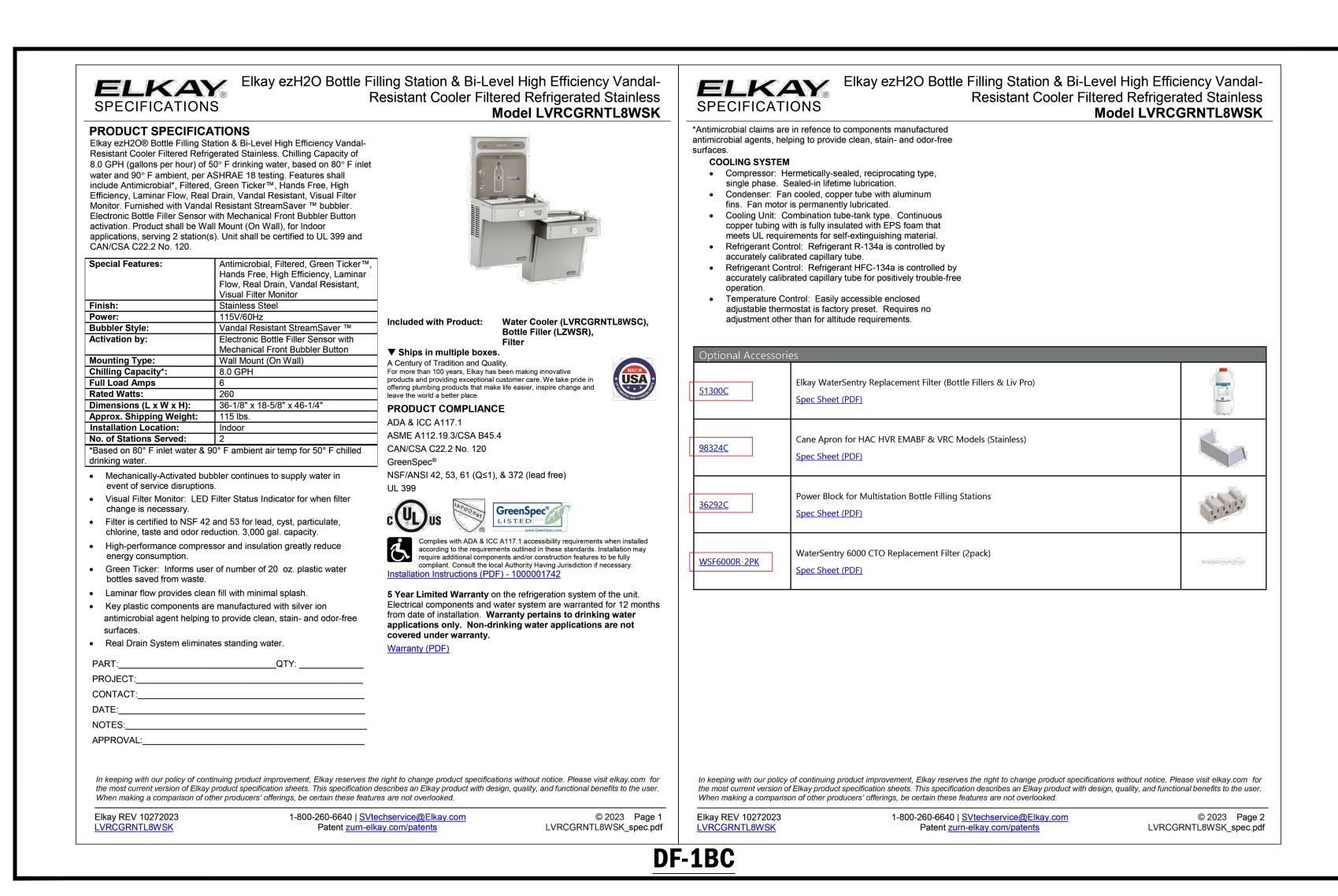


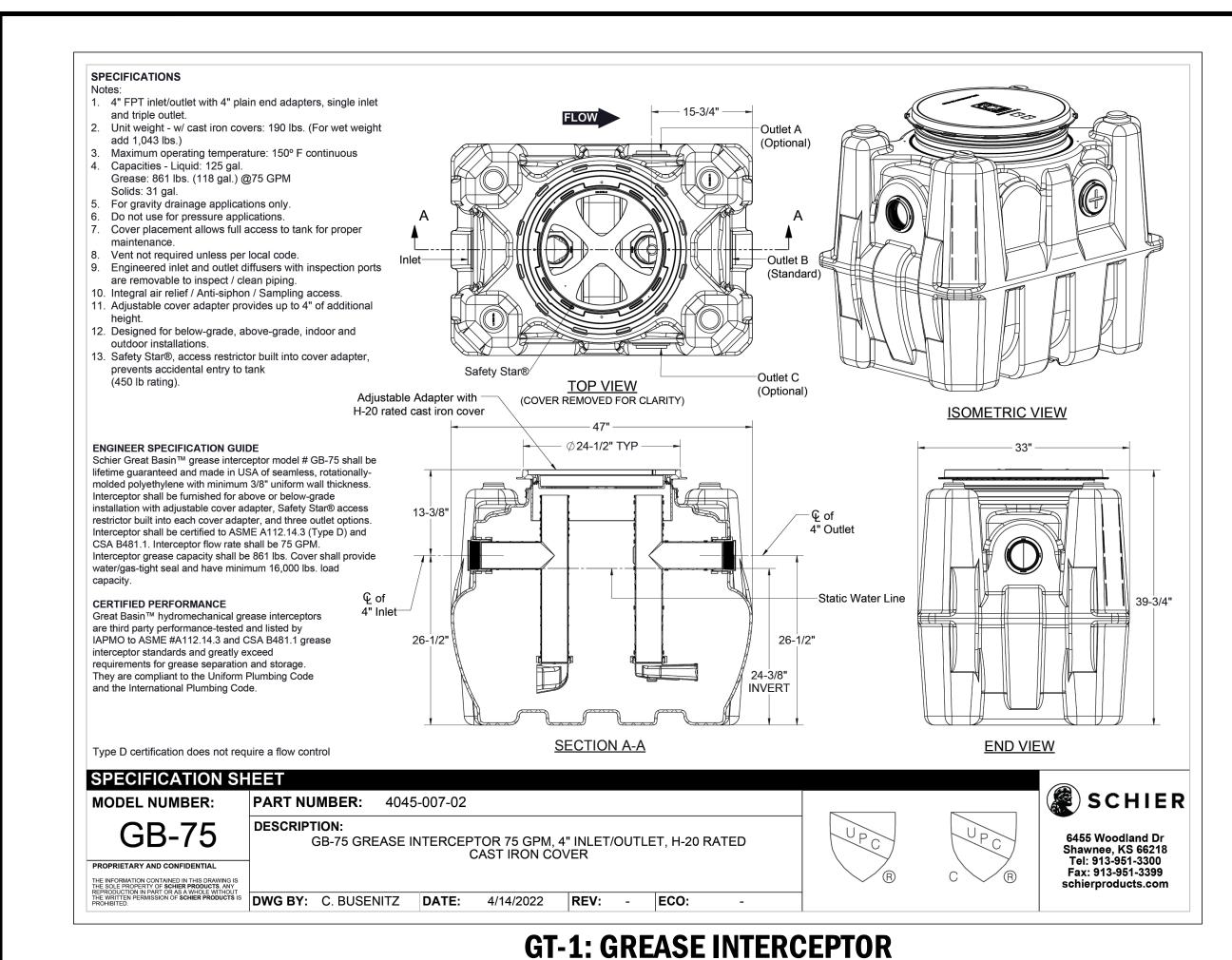
Consulting Consulting



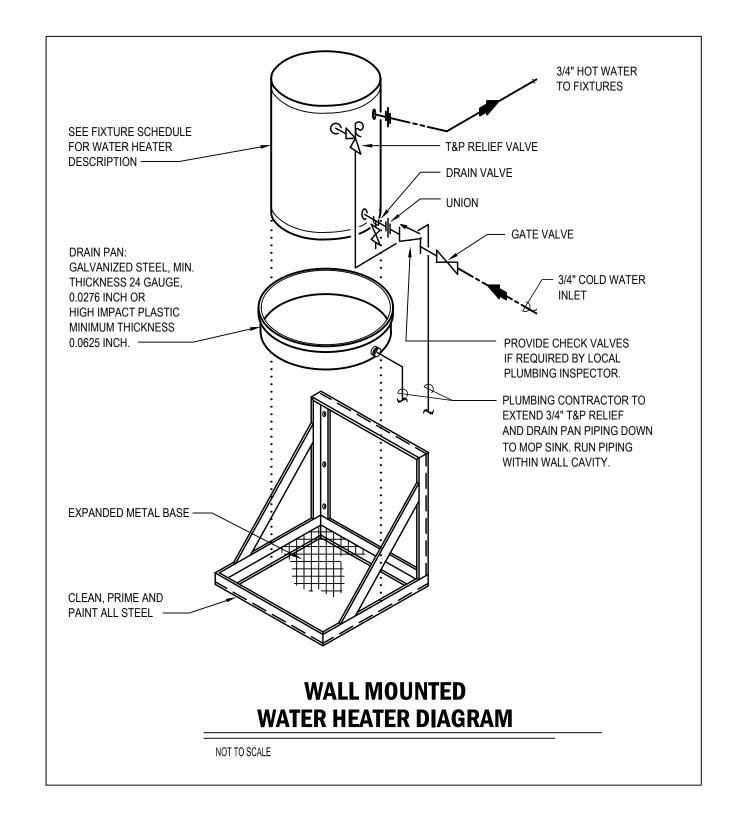


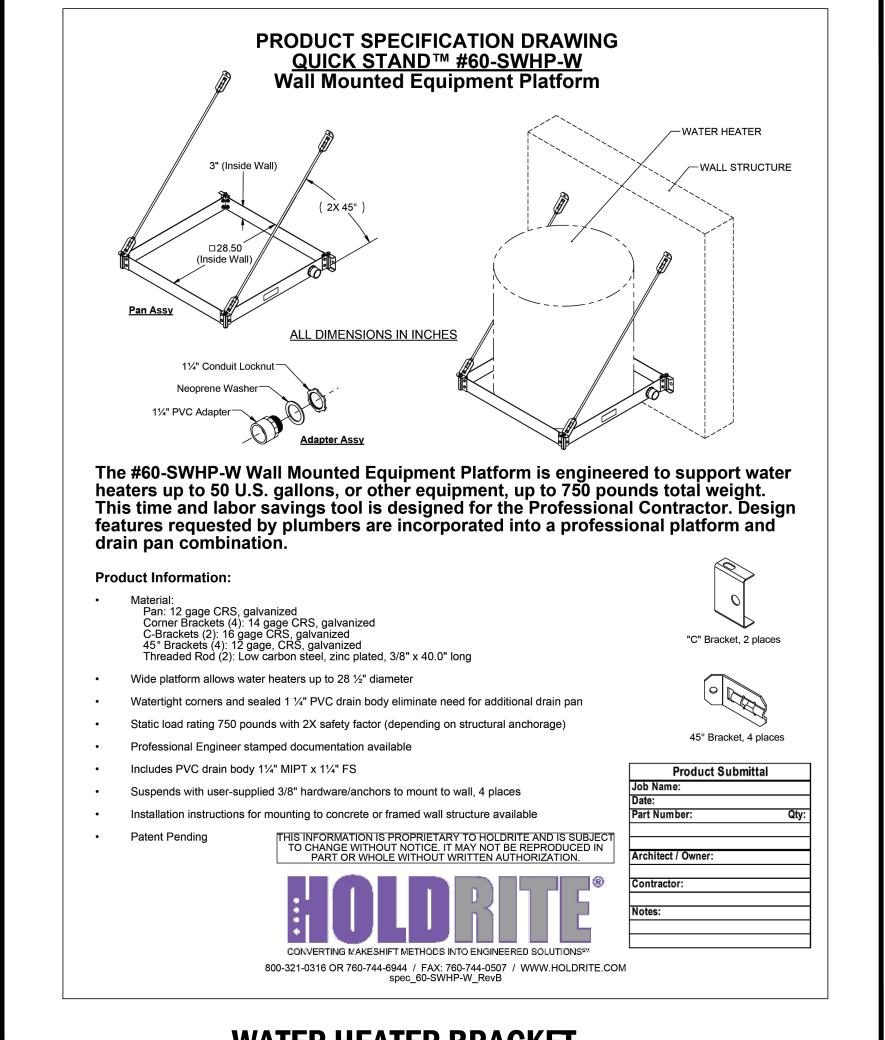
PHASE PR NO 23118 P3





INSTALL GREASE INTERCEPTOR WITH HIGH WATER LEVEL ACCESSORY KIT AND PER MANUFACTURERS INSTALLATION DETAILS. INSTALL PER TRAFFIC RATING DETAIL IF INSTALLED IN AN AREA WHERE SUBJECT TO VEHICULAR TRAFFIC.





WATER HEATER BRACKET

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ARCHITECTURE

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SONSTRUCTION
25 12th Ave S.

S Consulting

Ca# 32236

BID DRAWINGS 1/24/2024
BID DRAWINGS 02/28/2024

PHASE 95% PR NO 23118

P4

MECHANICAL SPECIFICATIONS (FMC 2023)

- 1. 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.
- 2. 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.

- 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.).
- 5. VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS OR FIELD DIMENSIONS.
- 6. 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.
- 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.
- 8. 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.
- 9. EQUIPMENT AS PER SCHEDULED OR PER THE LIST OF ACCEPTABLE MANUFACTURERS BELOW:

A/C EQUIPMENT: UPON APPROVAL ONLY
A/C GRILLES: PRICE, KREUGER, TITUS
FANS: GREENHECK, LOREN COOK, PENN.
WALL LOUVERS: POTTORFF, PRICE, RUSKIN.

- 10. 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.
- 11. 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, 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.
- 12. ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED WITH SPRING ISOLATORS.
- 13. 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.
- 14. ALL EQUIPMENT SHALL BE MOUNTED AND SECURED TO WITH-STAND HURRICANE WIND CODE.
- 15. PROVIDE FLEXIBLE DUCT CONNECTIONS FOR SHEET METAL DUCTS FOR ALL AIR HANDLING UNITS AND EXHAUST FANS.
- 16. ALL CONTROL AND LOW VOLTAGE WIRING BY MECHANICAL CONTRACTOR.
- 17. 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
- 18. ALL DUCTWORK, INSTALLATION AND EQUIPMENT SHALL MEET SMACNA AND ENERGY CODE REQUIREMENTS.
- 19. 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.
- 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.
- 22. 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 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.
- 23. NON-CONDITIONED OUTSIDE AIR AND TOILET EXHAUST DUCTWORK SHALL BE SHEET METAL. ALUMINUM FLEXIBLE PIPE 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.
- 24. HVAC SUPPLY DIFFUSERS AND RETURN GRILLES SHALL BE WHITE FINISH, ALUMINUM CONSTRUCTION UNLESS OTHERWISE NOTED. FINAL COLOR SELECTED BY OWNER. SEE PLANS FOR THROAT CONNECTION SIZES.
- 25. WALL MOUNTED THERMOSTAT(S) SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
- 26. PROGRAMMABLE THERMOSTAT CONTROL FOR COOLING, HEATING. FAN, AUTO AND MANUAL MODE WHEN SPECIFIED ON
- 27. 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.
- 28. ALL AIR HANDLERS SHALL BE PROVIDED WITH GALVANIZED DRAIN PAN INSTALLED UNDER SYSTEM REGARDLESS OF LOCATION.
- 29. ALL PACKAGED DOWN FLOW UNITS SHALL BE PROVIDED WATER LEVEL MONITORING DEVICE.
- 30. 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.
- 31. 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.
- 32. ALL FIRE WALL PENETRATIONS WITH DUCTWORK SHALL BE PROTECTED WITH A UL LISTED FIRE DAMPER. NOT ALL FIRE DAMPERS HAVE BEEN INDICATED ON THESE DRAWINGS REFER TO ARCHITECTURAL DRAWINGS FOR RESPECTIVE UL DETAILS AND FIRE WALL RATINGS. DUCTWORK PENETRATING FIRE WALLS THAT MEET EXCEPTIONS WITHIN THE MECHANICAL CODE TO PENETRATE FIRE WALLS WITHOUT A FIRE DAMPER SHALL BE PROVIDED WITH ANGLES AND SLEEVES TO PENETRATE FIRE WALLS IN ORDER TO MEET THE EXCEPTIONS WITHIN THE MECHANICAL CODE / NFPA90A.

						AIR CU	JRTAIN	SCHED	ULE			
		BASIS OF DE	ESIGN	LENGTH	PE	RFORMANCE		MOTOR				
IARK	LOCATION	MANUFACTURER	MODEL.NO	(FEET)	CFM	AIR VELOCITY (FPM)	NUMBER OF MOTORS	HP (PER MOTOR)	VOLTAGE	HEAT (kW)	CONTROL	NOTES
CR-1	SEE PLAN	POWERED AIR	MP-1-42	42"	1243	1462	1	1/5	120/1	NONE	MAGNETIC DOOR	
CR-2	SEE PLAN	POWERED AIR	MP-2-72	72"	1968	1348	2	1/5	120/1	NONE	MAGNETIC DOOR	

MULTI-SPLIT SYSTEM FCU SCHED	ULE			
SYSTEM DESIGNATION TAG	IDU TAG	MSA-1.1	MSA-1.2	MSA-1.3
SERVES	ODU TAG			
MANUFACTURER	NAME	DAIKIN	DAIKIN	DAIKIN
MODEL	NO.	FFQ18W2VJU9	FFQ18W2VJU9	FFQ18W2VJU9
FCU STYLE	TYPE	2x2 CEILING CASSETTE	2x2 CEILING CASSETTE	2x2 CEILING CASSETTE
DUTY	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
NOMINAL CAPACITY	BTUH	18,000	18,000	18,000
TOTAL AIR QUANTITY - COOLING (H / M / L / SL)	CFM / CFM / CFM	448 / 378 / 275 / NA	448 / 378 / 275 / NA	448 / 378 / 275 / NA
EXTERNAL STATIC PRESSURE	IN. H2O	-	-	-
DIMENSIONS	HxWxD	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
WEIGHT	LBS.	39.0	39.0	39.0
NOTES		ALL	ALL	ALL

- 1. BASIS OF DESIGN: DAIKIN RA SPLIT SYSTEM
- 2. MATCH SCHEDULED SEER / EER RATING LISTED IN SCHEDULE

7. PROVIDE WITH REFRIGERANT BALL VALVES FOR REPLACEMENT

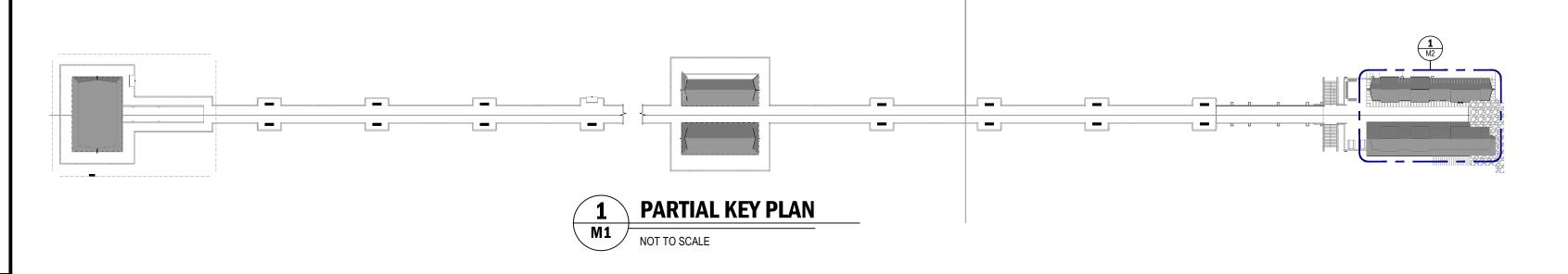
PROVIDE A POWDER COATED WALL MOUNTED BRACKET MN: DACA-WB-3

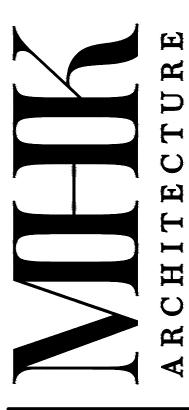
- 3. FAN COIL POWER IS PROVIDED BY THE CONDENSING UNIT.
- 4. PROVIDE A DAIKIN ONE-LITE THERMOSTAT MN: DTST-LTE-LA-A
- 5. PROVIDE A CONDENSATE PUMP MN: DACA-CP1-1
- 6. PROVIDE A 5-YEAR LIMITED PARTS WARRANTY. ONLINE REGISTRATION REQUIRED WITHIN 60 DAYS OF INSTALLATION.

YSTEM DESIGNATION TAG	ODU TAG	MSCU-1
SERVES	IDU TAG	
MANUFACTURER	NAME	DAIKIN
MODEL	NO.	5MXS48WVJU9
FAMILY	TYPE	5-PORT MULTI-SPLIT
DUTY	TYPE	HEAT PUMP
RATED COOLING CAPACITY	BTUH	47,000
RATED HEATING CAPACITY	BTUH	48,500
EFFICIENCY (NON-DUCTED)	SEER2 / EER2 / HSPF2	20.6 / 10.5 / 9.3
EFFICIENCY (MIXED)	SEER2 / EER2 / HSPF2	14.5 / 8.2 / 7.8
EFFICIENCY (DUCTED)	SEER2 / EER2 / HSPF2	17.55 / 9.35 / 8.6
AHRI (NON-DUCTED)	#	210722663
AHRI (MIXED)	#	210725099
AHRI (DUCTED)	#	210800987
COMPRESSOR	TYPE	INVERTER
ELECTRICAL SERVICE	V / PH / HZ	208-230 / 1 / 60
MINIMUM CIRCUIT AMPACITY	AMPS	30.8
RECOMMENDED FUSE SIZE	AMPS	35.0
PIPING		
MAX PIPE LENGTH	FT	268.0
MAX PIPE LENGTH (VERTICAL)	FT.	49.3
MAX HT DIFF (IDU TO IDU)	FT.	98.0
GAS CONNECTION	O.D. IN INCHES x QTY	3/8 x 1, 1/2 x 2, 5/8 x 2
LIQUID CONNECTION	O.D. IN INCHES x QTY	1/4 x 5
SOUND PRESSURE (COOLING/HEATING)	Db(A)	53 / 55
DIMENSIONS	H x W x D	34-1/4 x 43-5/16 x 18-1
WEIGHT	LBS.	216
OTES		-
U NOTES	<u> </u>	

CODE COMPLIANCE	STATEMENT
ENTIRE INSTALLATION SHALL COMPLY WITH STANDARDS OR ANY OTHER LOCALLY ADOR	I CODES BELOW, IN ADDITION TO ALL REFERENCED PTED AMENDMENTS.
FLORIDA BUILDING CODE:	2023 EDITION
FLORIDA ENERGY CODE:	2023 EDITION
FLORIDA FIRE CODE:	2023 EDITION
FLORIDA FUEL GAS CODE:	2023 EDITION
FLORIDA MECHANICAL CODE	2023 EDITION
FLORIDA PLUMBING CODE	2023 EDITION
NFPA 101 LIFE SAFETY CODE	2023 EDITION
NATIONAL ELECTRICAL CODE	2020 EDITION

				LO	UVE	R SCHE	DULE			
	MANUEACTURER		HOHOMO	PERFORM	MANCE		THROAT			
MARK	MANUFACTURER MODEL	APPLICATION	HOUSING STYLE	MAX CFM	IN.WC	SIZE (WxL)	FREE AREA (SQ.FT / %)	VELOCITY (FPM)	DAMPER	NOTES
L-1	RUSKIN EME3625MD	INTAKE	ALUMINUM	1500	0.13	34" X 18"	1.66 / 40%	906 FPM	MOTORIZED	
L-2	RUSKIN ELF637DXD	EXHAUST	ALUMINUM	3500	0.07	34" X 34"	5.21 / 65%	672 FPM	MOTORIZED	
L-3	RUSKIN ELF637DXD	INTAKE	ALUMINUM	3500	0.07	34" X 34"	5.21 / 65%	672 FPM	MOTORIZED	





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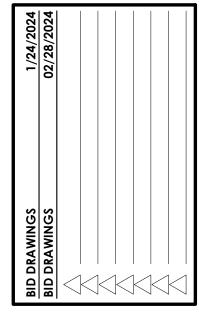
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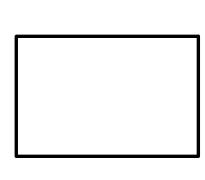
NAPLES PIER RECONSTRUCTION 25 12th Ave S.

CA# 32236

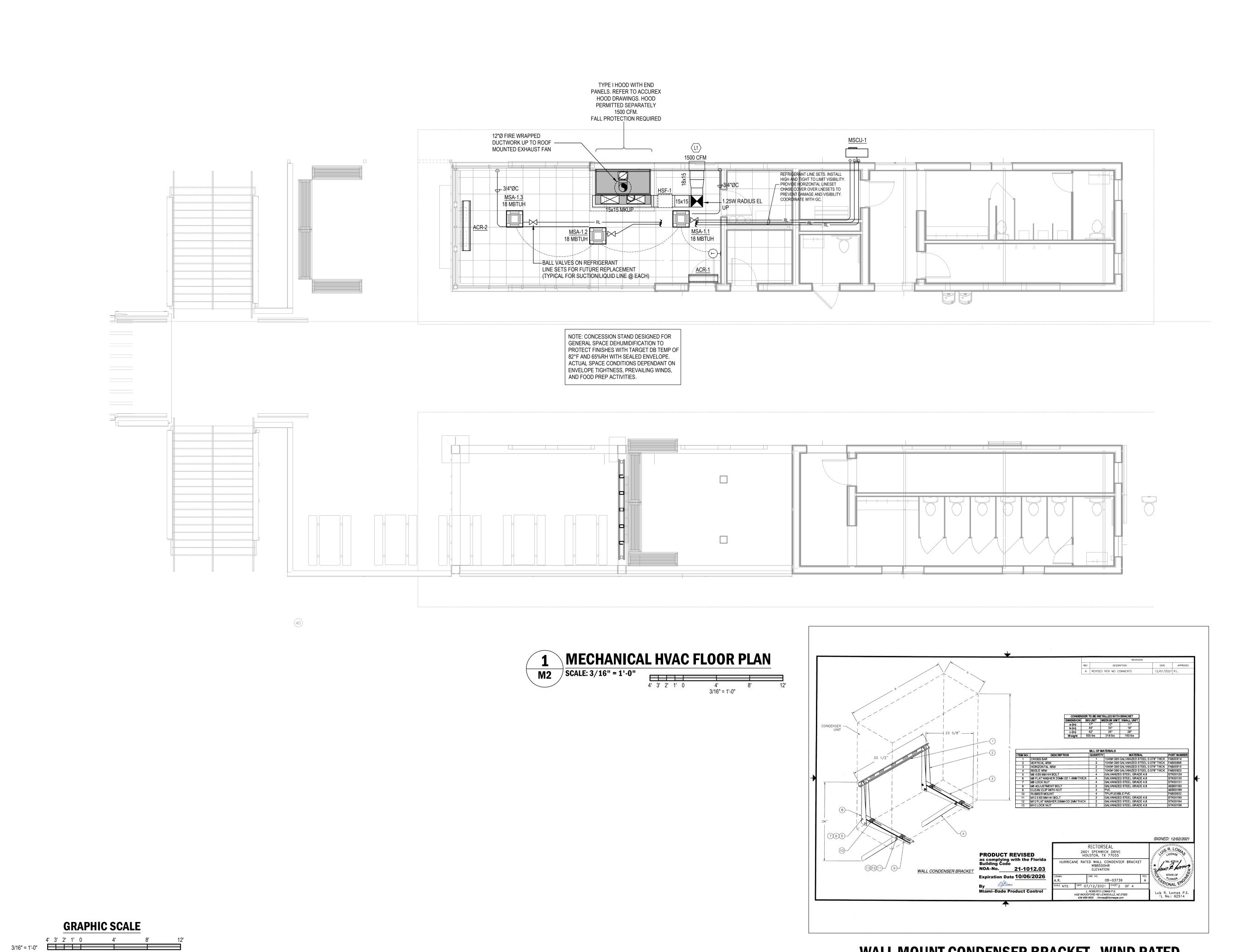
CAPE CORAL | PLUMBING | ENGINEERING CAPE CORAL, FLORIDA 33904

CAPE CORAL | PLUMBING | COMMICTARION | CO





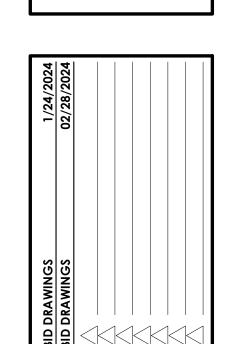
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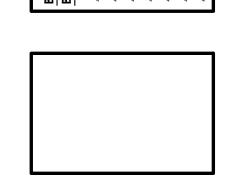


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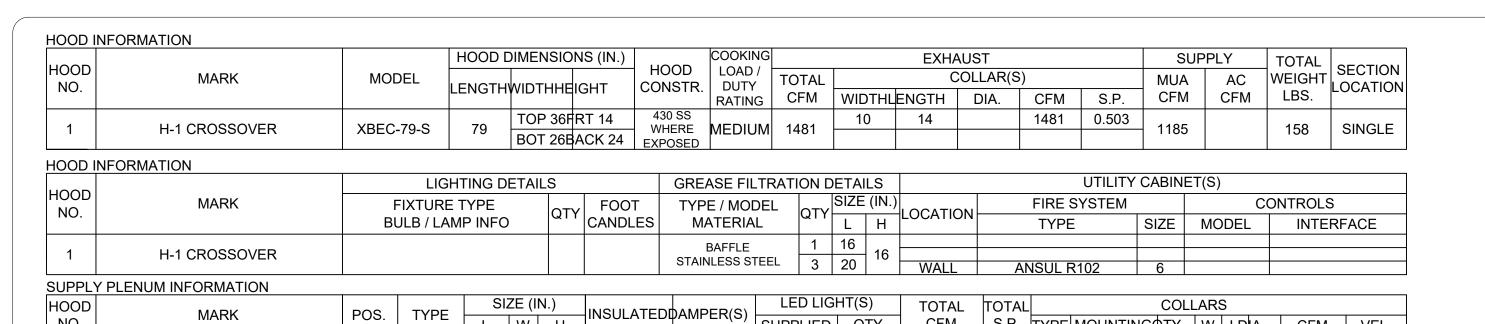
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YES

HOOD OPTIONS UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625 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 STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH

FIRE SYSTEM INFORMATION							
MARK	MODEL	LOCATION	FLOW POINTS		SUPPLY	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
	WIODEL	LOCATION	HOODS	PCU	LINE	DETECTION	WWW.KK(O) FROTESTED BY FINE STOTEM
FS-1	ANSUL R-102	WALL CABINET – ON H-1	8 UTILIZED		CONTINUOUS	I I SIDI E I INIZ	H-1 CROSSOVER SECTION 1
F9-1	WET CHEMICAL	CROSSOVER	22 AVAILABLE		CONTINUOUS	OSIDLE LINK	

SUPPLIED | QTY

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL) CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED METAL BLOW-OFF CAPS - INCLUDED GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200 HOOD SUPPRESSION TANK - INCLUDED - 6 GAL. - [(2) 3.0 TANK(S)]

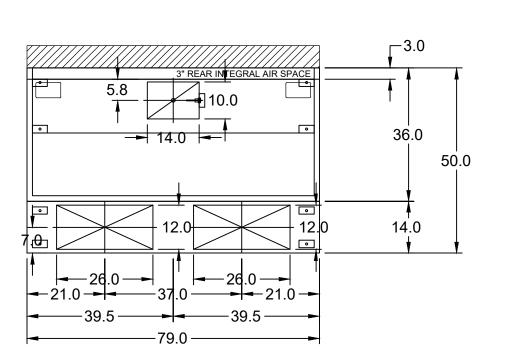
|FRONT| ASP | 79 | 14 | 4 |

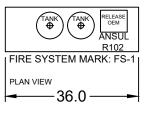
REMOTE PULL STATION - STANDARD - FIELD INSTALLATION AT SINGLE POINT OF EGRESS

NO.

H-1 CROSSOVER

FIRE SYSTEM OPTIONS AND ACCESSORIES

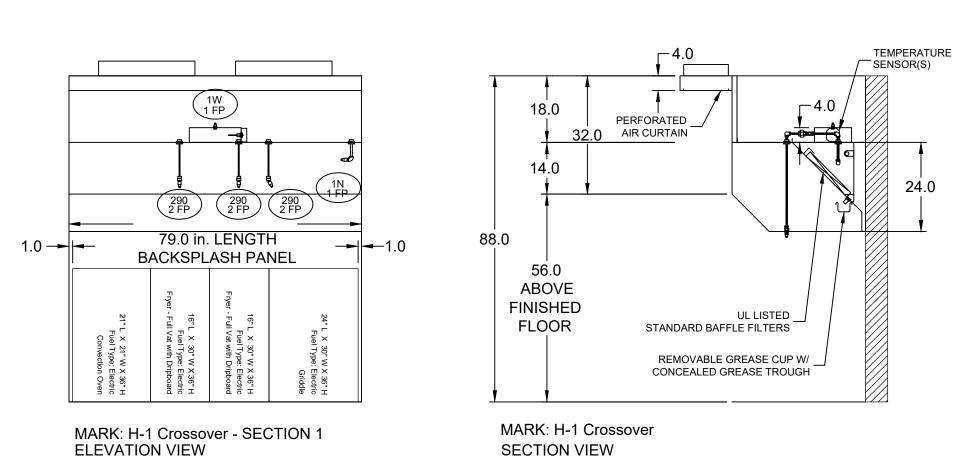


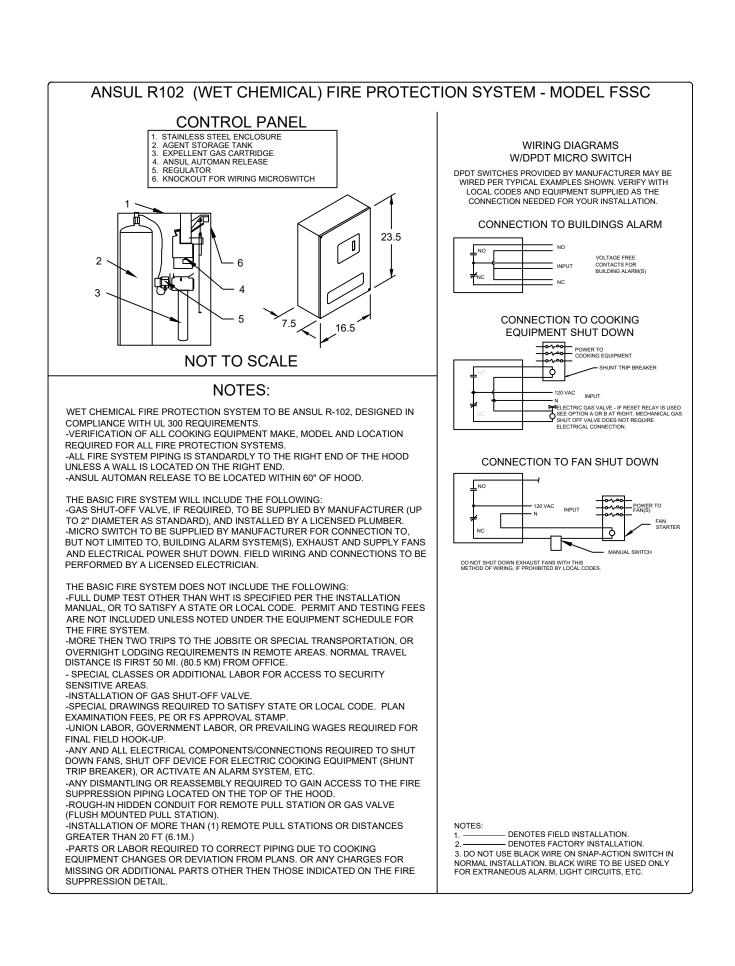


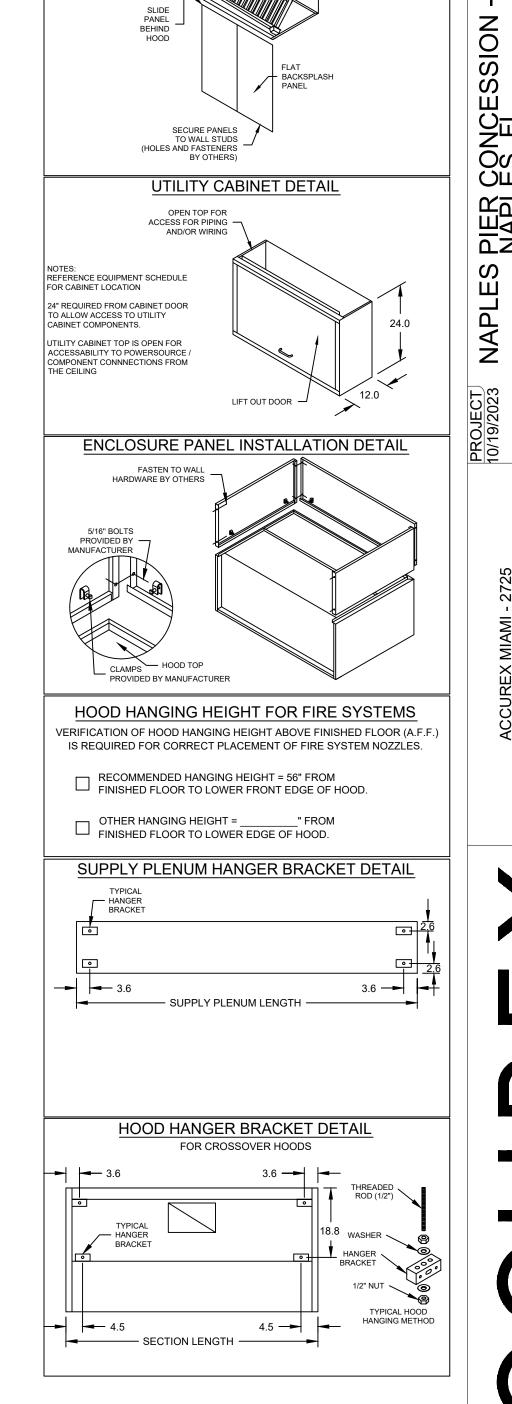
CFM S.P. TYPE MOUNTINGQTY W LDIA. | CFM | VEL.

1185 0.02 MUAFACTORY 2 1226 593 274

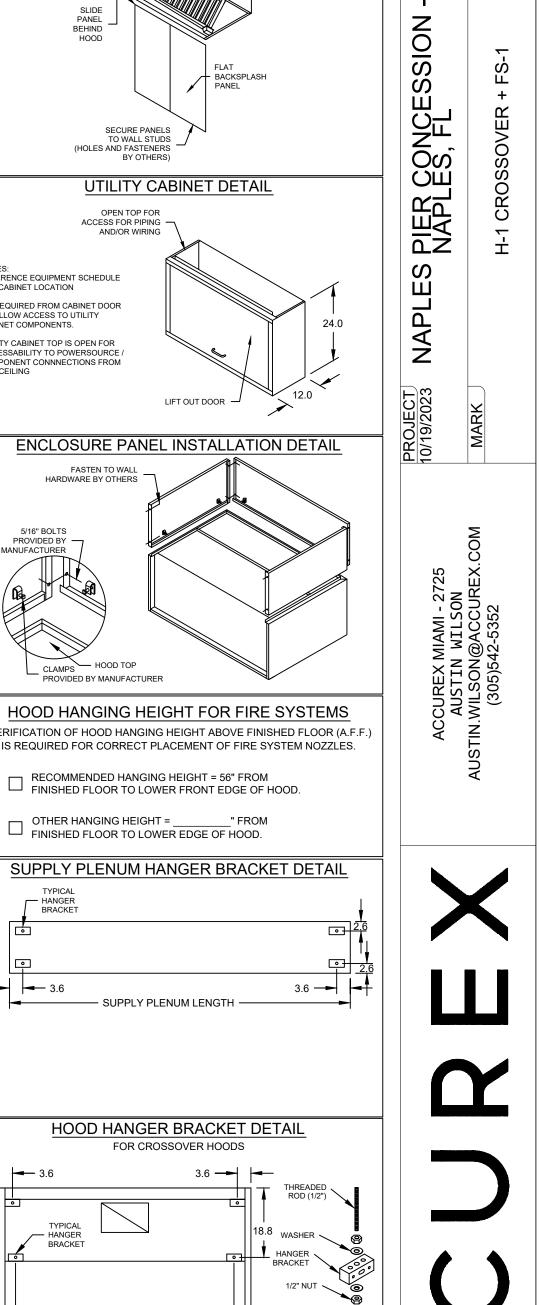


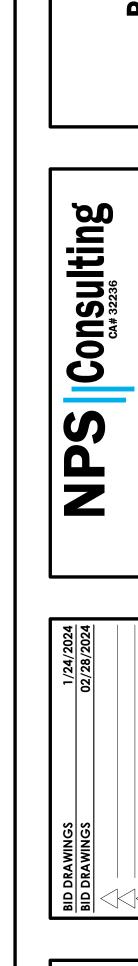


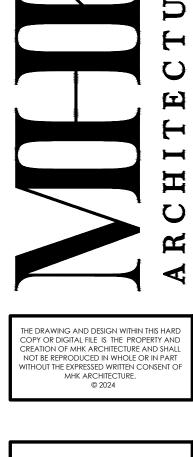




FLAT BACKSPLASH PANEL INST. DETAIL







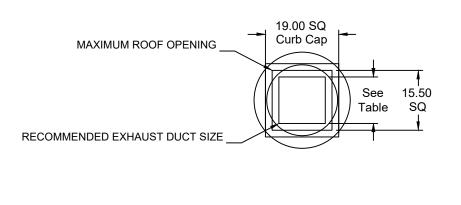
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	MARK INFORMATION	FAN INFORMATION						MOTOR INFORMATION					
QTY	MARK	MODEL	VOLUME (CFM)	TOTAL EXTERNAL SP (IN WG)	FAN RPM	OPERATING POWER (HP)	WEIGHTS (LB.)	SIZE (HP)	V/C/P	ENCLOSURE	MOTOR RPM	WINDINGSNEC	FLA*
1	KEF-1	XCUE-120-VG	1,481	1.003	1,671	0.43	66	0.5	230/60/1	OP	1725	1	4.9

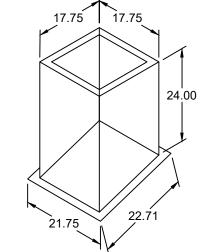
*NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

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
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)



DUCT TYPE SIZE

STANDARD 12 SQ FIRE-WRAPPED 8 SQ



→ 19.00 SQ -

DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB. CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE.



(24.00)





PIER CONCESSION NAPLES, FL **NAPLES**

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21.00 ---

TOP VIEW

17.00

END VIEW

2.9

20.75

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Conduit Chase Qty 1

Direct Drive Centrifugal Inline Fan

FAN INFORMATION MOTOR INFORMATION MARK INFORMATION VOLUME TOTAL EXTERNAL SP FAN OPERATING WEIGHTSIZE (HP) (CFM) (IN WG) POWER (HP) (LB.) MOTOR WINDINGS NEC FLA* MODEL 1,185 1,584 0.25 230/60/1 1725 1 0.19 XID-100-VG TN KSF-1 Inline

*NEC FLA - Based on table 430.250or 430.248of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory"

KSF-1 Inline: SELECTED OPTIONS AND ACCESSORIES

UL/cUL 705 Listed - "Power Ventilators" Junction Box Mounted and Wired Switch, NEMA-3R, Toggle, Shipped with Unit,

Aluminum Wheel Material Fan: Neoprene Hanging Isolator PN: 855837, Incl. 4 isolators and 4 brackets Inlet/Outlet Companion Flange

SIDE VIEW

PIER CONCESSION NAPLES, FL LIGHTS OFF DURING FIRE **EXHAUST MAX DURING FIRE** SUPPLY OFF DURING FIRE **CABINET DETAILS USER INTERFACE DETAILS** DRAWING NOT TO SCALE DRAWING NOT TO SCALE 5.32 NAPLES 5.25 THESE DRAWINGS SHALL NOT BE REMOVED FROM NE PAS RETIRER CES DESSINS DE CE WIRING DIAGRAM CODE: WDC# 20 DOC NUMBER: ----THIS EQUIPMENT. USE COPPER CONDUCTORS | ÉQUIPEMENT. SAUF INDICATION CONTRAIRE, UTILISER DES CONDUCTEURS EN CUIVRE CLASSÉS CONTROL & GROUND BLOCKS TO 8 LBS. IN. TORQUE 90 °C. SERRER LES BORNES DE COMMANDE ET DE JOB NAME:NAPLES PIER CONCESSION -**ACCUREX** POWER LUGS/SCREWS TO COMPONENT RATINGS
LISTED. TORQUE CONTROL BOARD SCREW

MISE À LA TERRE À 8 LB-PO. SERRER LES
COSSES/VIS D'ALIMENTATION AUX COUPLES NAPLES, FL UNIT MUST BE GROUNDED IN ACCORDANCE
WITH N.E.C. POWER MUST BE OFF WHILE
SERVICING.

UNIT MUST BE GROUNDED IN ACCORDANCE
L'APPAREIL DOIT ÊTRE MIS À LA TERRE
LISTED. TORQUE CONTROL BOARD SCREW
COSSES/VIS D'ALIMENTATION AUX COUPLES
LISTED. TORQUE CONTROL BOARD SCREW
COSSES/VIS D'ALIMENTATION AUX COUPLES
COSSES/VIS D'ALIMENTATION AUX COUPLES
INDIQUÉS POUR LE COMPOSANT. SERRER LES
RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE
BORNES À VIS DE LA CARTE DE COMMANDE RECESSED INTO WALL DOIT ÊTRE COUPÉE DURANT L'ENTRETIEN.

RESISTANCE SHOULD NOT EXCEED 0.75 OHM. SEE
BORNES À VIS DE LA CARTE DE COMMANDE MODEL: XKC-CV-S-11-1-1-0 IOM FOR ADDITIONAL INFORMATION, OR CALL À 3,5 LB-PO. LA RÉSISTANCE DU CÂBLAGE DE COMMERCIAL APPLIANCE OUTLET CENTER

FACTORY AT 1-800
PRG VERSION: V4
PRG VERSION: V4
FIELD NUMBER (CAR JSER INTERFACE CONTROL COMMANDE LOCAL NE DOIT PAS DÉPASSER 0,75 OHM. POUR PLUS D'INFORMATION, CONSULTER SERIAL NUMBER: WDSN# FANS AND LIGHTS FIELD WIRED (CÂBLÉ LOCALEMENT) -BASE FILE #E200616, ML FILE #E313951 LE MANUEL OU APPELER 1-800-371-6858 MARK:CTRL-1 FACTORY WIRED (CÂBLÉ À L'USINE) 00000 INTERFACE CABLE LENGTH 50FT (FACTORY PROVIDED) POWER WIRING FOR KITCHEN CONTROLS CONTROL WIRING FOR KITCHEN CONTROLS (WIRING TO BE DONE BY ELECTRICIAN, POWER WIRING FROM BREAKER 00000 **CONTROL PANEL** TOTAL (WIRING TO BE DONE BY ELECTRICIAN) PANEL DIRECT TO FANS (CONTINUED) WEIGHT: IF NO CONTROLS CONTRACTOR. FIRE SYSTEM SWITCH BUILDING (WIRING TO BE DONE BY ELECTRICIAN) USE 18-22GA WIRE UNLESS SPECIFIED.) 25 LBS (REMOVE JUMPER IF USED)* **CONTROL PANEL BREAKER PANEL** (MAIN BOARD) MOUNTING LOCATION: BUILDING NC WILL BE FACTORY SHIP LOOSE ENCLOSURE **BREAKER PANEL** FS-C FS-NC WIRED IF 110V-120V / 1PH POWER FOR NEUTRAL N1 CONTROLS / LIGHTS 1) WHEN CONTROLS ARE MOUNTED IN (NON SHUNTED HOOD-MOUNTED OR WALL-MOUNTED UTILITY 15A BREAKER) CABINET, FOR HOOD OR WALL CABINET HOOD 1 TEMP SENSOR DIMENSIONS SEE HOOD SUBMITTAL. EXHAUST E1 230V / 1PH HOOD MARK: FAN SPEED E1-S+ 0-10VDC + 0-10VDC OUT E1-S- 0-10VDC - WI VARI-GREEK, H-1 CROSSOVER SECTION 1 2) MINIMUM OF 36" OF CLEARANCE UPON FIRE POWER FOR E1 OR NO POWER TO PANEL: C1
C TO NO WILL CLOSE NO1 FIRE SYSTEM MCA: 6.13 RECOMMENDED IN FRONT OF CONTROL CABINET LINE 2 DRY NORMALLY OPEN MOP: 15 **MOTOR** CONTACT 1* NORMALLY CLOSED GROUND 230V / 1PH C TO NC WILL OPEN NC1 (ECM) KEF-1 ZONE CONFIGURATION ZONE # ZONE ROOM TEMP PRESET MODEL: XKC-CV-S-11-1-1-0 SERIAL NUMBER: WDSN# CN-S1 OL-S1 LINE 1 L1 ON O MARK:CTRL-1 LOAD 1 SUPPLY S1 230V / 1PH DOC NUMBER: ---DEFAULT SETTINGS / MCA: 3.63 2.9 FLA 0.25 HP 230V / 1PH MOP: 15 GROUND GND PARAMÈTRES PAR DÉFAUT GROUND FACTORY SETTINGS
TYPE: CV CONFIGURATION: STANDARD HOOD CONFIGURATION ZONEEXHAUST SUPPLY MB-TEMP SENSORS HCB HOODS: 1 HOOD # HOOD HOOD MARK NO EXHAUST FANS: 1 H-1 CROSSOVER SECTION 1 SUPPLY FANS: 1 MB ROOM SENSOR: NO MB TEMP SENSORS: 1 HIGH TEMP FAULT: NO FREEZE PROTECTION: YES GAS RESET: NO FAN PROVING: NO BMS: NONE ZONE SETTINGS SEE ZONE CONFIGURATION IN TABLE ON LEFT HOOD SETTINGS SEE HOOD CONFIGURATION IN TABLE ON LEFT (OPTIONAL ON/OFF INPUTS) EXHAUST FAN SETTINGS SEE FAN CONFIGURATION IN TABLE ON LEFT DI-1A DIGITAL IN 1
DI-1B C NO FAN ON/OFF SUPPLY FAN SETTINGS
SEE FAN CONFIGURATION IN TABLE ON LEFT DI-2A DIGITAL IN 2
DI-2B C NO LIGHT ON/OFF (DEFAULT) SENSOR SETTINGS SEE HOOD CONFIGURATION IN TABLE ON LEFT USER INTERFACE SETTINGS (MB)
FAN & LIGHT BUTTONS: SHOW BOTH (SEPERATE) USER INTERFACE SETTINGS (HCB) GENERAL SETTINGS
TIME ZONE: CENTRAL DAYLIGHT (DEFAULT) FACTORY PROVIDED 50 FT CAT5 CABLE FIRE/FAULT SETTINGS
EXHAUST DURING FIRE: MAX
SUPPLY DURING FIRE: OFF LIGHTS DURING FIRE: OFF USER INTERFACE MB-UI PRG VERSION: V4 FAN CONFIGURATION ZONE MIN CFMMAX CFMMODBUS VFDVFD ADDRESSMIN FREQ.MAX FREQ.MIN VDCMAX VDC FAN# TYPE FAN 1 SUPPLY S1 NO *FIRE SYSTEM DRY CONTACT WIRING EXAMPLES - 1185 KSF-1 ROOFTOP 2 EXHAUST E1 Z1 - 1481 SHUNT TRIP APPLIANCE CONTACTORS KEF-1 (BY OTHERS) (BY OTHERS) WIRING EXAMPLE: WIRING EXAMPLE: C1 COMMON **WHEN FIRE SYSTEM IS ARMED, FS-C TO FS-NC SHUNT TRIP APPLIANCE SHOULD HAVE CONTINUITY **BREAKER COIL** CONTACTOR COIL

FANS CONTROLLED

0.5

1 1185

1 1481

ZONE | CFM | MOTOR HPMOTOR VOLTCYCLEMOTOR PHASEMOTOR STARTER IN PANEL

60

230

VFD IN PANEL

NO

NO

NO

CONTROL INFORMATION

CONTROL FEATURES HOOD LIGHT CONTROL

MARK

DRY FIRE CONTACTS - QTY. 1

TEMP SENSORS (FACTORY INSTALLED) - QTY. 1

ELECTRICAL CONTROL PACKAGE

LOCATION

SHIP LOOSE ENCLOSURE

MODEL

XKC-CV-S-11-1-1-0

USER INTERFACE

LOCATION

SHIP LOOSE

FAN# TYPE FAN

1 SUPPLY S1

2 EXHAUST E1

FAN MARK

KSF-1 ROOFTOP

KEF-1

TYPE

FULL COLOR

TOUCHSCREEN

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PHASE PR NO 23118

ELECTRICAL SPECIFICATIONS (NEC 2020)

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 FLECTRICIAN 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.

- THE PROJECT INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE A COMPLETE ELECTRICAL 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, CONDUIT 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.

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.

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.

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.

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

- 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
- 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. VERIEY 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.).
- 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.
- 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.
- 10. ALL ELECTRICAL CONDUITS NOT CONTAINING SPECIFIED CONDUCTORS SHALL HAVE A PULL WIRE INSTALLED.
- 11. DO NOT SCALE THE ELECTRICAL DRAWINGS; REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LOCATIONS, CABINETRY, 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 TO FURNISH AND INSTALL ALL ITEMS SUCH AS HARDWARE, J-BOXES, CONDUIT FITTINGS, ETC., AS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM INSTALLATION.
- 14. TECHNICIANS SKILLED IN THEIR TRADE SHALL PERFORM ALL ELECTRICAL INSTALLATIONS IN A PROFESSIONAL MANNER.
- WIRE TO, AND MAKE CONNECTIONS AS NECESSARY, TO ALL PIECES OF EQUIPMENT (FURNISHED BY OTHERS), FOR COMPLETE AND SATISFACTORY OPERATION BY THE OWNER.
- 16. ALL ELECTRICAL PANELS SHALL BE LABELED WITH THEIR RESPECTIVE SOURCES PER NEC 408.4(B)
- 17. ALL SERVICE AND FEEDER CONDUITS SHALL HAVE EXPANSION FITTINGS WHEN PENETRATING SLABS, ETC. TO ALLOW FOR
- 18. PROVIDE "PVC" CONDUITS STUBBED OUT, BELOW GRADE FOR ADDITIONAL SERVICES, IN ORDER TO PROVIDE CONCEALED TELEPHONE AND/OR DATA SERVICE ENTRANCE.
- 19. PROVIDE TIME CLOCKS WITH BATTERY BACK-UP TO CONTROL ALL SIGNAGE AND EXTERIOR LIGHTING CIRCUITS; SEE POWER RISER
- 20. ALL CONDUCTORS SHALL BE TYPE THHN/THWN, COPPER (CU) UNLESS OTHERWISE CALLED FOR ON THESE DOCUMENTS. SEE PANEL SCHEDULES AND RISER DIAGRAM.
- 21. ALL LIGHTING FIXTURES (INCLUDING THOSE PROVIDED BY OTHERS) ARE TO BE INSTALLED UNDER THIS CONTRACT. SEE SCHEDULE FOR FIXTURE RECOMMENDATIONS, LAMPS, ETC.
- 22. ALL LIGHTING BRANCH CIRCUITS TO BE WIRED WITH #16 SOLID AWG Cu CONTROL CONDUCTORS (GREY & PURPLE) FOR LIGHT FIXTURE CONTROL WIRING.
- 23. NOTICE TO CONTRACTOR: REVISIONS TO THESE DRAWINGS AND CERTIFICATION THEREOF WHICH MAY BE REQUIRED BECAUSE OF CONTRACTOR OPTED REVISIONS, SHALL BE COMPENSATED TO THE ENGINEER(S) BY THE REQUESTING CONTRACTOR. PAYMENT SHALL BE REQUIRED AT THE TIME OF CERTIFICATION DELIVERY.

INSTALLATION:

- ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, AS WELL AS EQUIPMENT SIZE, TO AVOID CONFLICT WITH OTHER TRADES.
- PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL RELOCATE, AS DIRECTED BY THE OWNER/ARCHITECT, ANY PIECE OF EQUIPMENT IN THE VERTICAL AND/OR HORIZONTAL DIRECTION UP TO 15'-0" FROM THE LOCATION SHOWN ON THE DRAWINGS AT NO

WIRING METHODS:

- BELOW GRADE: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED NONMETALLIC CONDUIT. CONDUIT MAY BE RUN IN OR BELOW CONCRETE, AND CONCEALED IN WALLS TO FIRST BOXES. 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 REQUIREMENTS, IN APPROVED METALLIC OR NONMETALLIC CONDUIT. ALL COMPONENTS (PIPING, FITTINGS, ETC.) SHALL BE FROM THE SAME MANUFACTURER

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

EXTERIOR EQUIPMENT: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED LIQUIDTIGHT FLEXIBLE METALLIC OR NONMETALLIC CONDUIT (MINIMUM 3/4"). ALL COMPONENTS (PIPING, FITTINGS, ETC.) SHALL BE FROM THE SAME MANUFACTURER.

NOTE: MAXIMUM LENGTH OF FLEXIBLE CONDUIT BETWEEN MEANS OF DISCONNECT (OR JUNCTION BOX) AND EQUIPMENT

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

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.

- 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.

- 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.

- 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

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 EQUAL TO EACH OTHER, AND EQUAL TO VOLTAGE SHOWN ON THESE DRAWINGS. A DIFFERENCE IN PHASE TO PHASE VOLTAGE MAY INDICATE THE PRESENCE OF A "HIGH LEG" DELTA SYSTEM. ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR REQUIRED
- 3. SPLIT PHASE CIRCUIT BREAKERS ARE NOT PERMITTED TO BE INSTALLED ON HIGH LEG DELTA SYSTEMS. HIGH LEG DELTA SYSTEMS SHALL BE LABELED PER 408.3 AND THE HIGH LEG CONDUCTOR TO BE MARKED PER 110.15.

STRUCTURAL STRUCTURAL -CEILING CEILING SUSPENDED -LUMINAIRE CEILING WIDTH OF EQUIPMENT OR 30" MIN. PERMITTED _ _ _ _ _ _ _ WORKING NOT REQUIRED SPACE BE CENTERED IN WORKING SPACE -WORKING SPACE . FRONT VIEW SIDE VIEW (A) 120V = 36" 480V = 42" IF GROUNDED SURFACE AT END OF WORKING SPACE STRUCTURAL -CEILING SUSPENDED -CEILING PERMITTED OR LESS DEDICATED **ELECTRICAL** 6-1/2' l min SIDE VIEW FRONT VIEW WORKING SPACE/DEDICATED ELECTRICAL

SPACE AT PANEL BOARDS DETAIL

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)

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)

SIMPLEX (ABOVE COUNTER) OR SPECIAL HEIGHT)

SINGLE-POLE TOGGLE SWITCH (OS= OCCUPANCY SENSOR) (T=TIMER)

SINGLE-POLE DIMMER SWITCH (COMPATIBLE W/ LIGHT FIXTURE)

WALL MOUNTED OCCUPANCY SENSOR

CEILING MOUNTED OCCUPANCY SENSOR

DATA/PHONE ROUGH-IN BOX W/ 1" CONDUIT STUBBED TO CLG)

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH JUNCTION BOX (ACCESSIBLE)

ELECTRICAL PANEL DIRECTIONAL SIGN (UL LISTED WITH 90 MINUTE BATTERY)

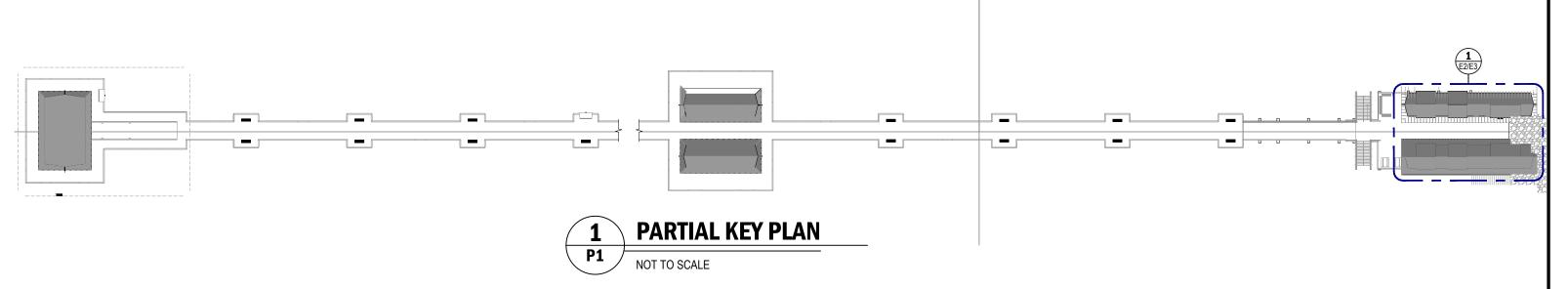
DUAL HEAD EMERGENCY LIGHT (UL LISTED WITH 90 MIN. BATTERY)

COAXIAL CABLE ROUGH IN BOX

120V RECEPTACLE COAXIAL CABLE, DATA ROUGH IN BOX - VERIFY FINAL HEIGHT CARD ACCESS READER ROUGH IN BOX

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



CODE COMPLIANCE STATEMENT

ENTIRE INSTALLATION SHALL COMPLY WITH CODES BELOW, IN ADDITION TO ALL REFERENCED STANDARDS OR ANY OTHER LOCALLY ADOPTED AMENDMENTS. 2023 EDITION FLORIDA BUILDING CODE

2023 EDITION

2023 EDITION

2020 EDITION

FLORIDA FIRE CODE: 2023 EDITION FLORIDA FUEL GAS CODE 2023 EDITION FLORIDA MECHANICAL CODE 2023 EDITION FLORIDA PLUMBING CODE 2023 EDITION

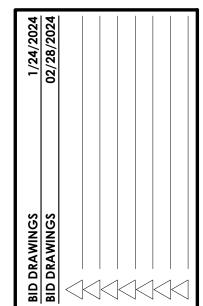
FLORIDA ENERGY CODE:

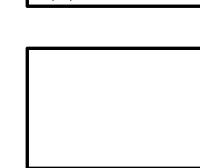
NFPA 101 LIFE SAFETY CODE

NATIONAL ELECTRICAL CODE

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PR NO 23118

DESIGN SCOPE

FOR INSTALLATION

REPLACE (3) EXISTING HAND DRYER AT THIS LOCATION. REFER TO ARCH. DRAWINGS FOR MODEL #. COORDINATE

PROCUREMENT, AND INCLUDE LABOR

WITH GC FOR HAND DRYER

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
- 1.3. <u>ALL GFCI PROTECTION DEVICES SHALL BE READILY</u> ACCESSIBLE AND LOCATED WITHIN RESPECTIVE ELECTRIC

EXCEEDING 150V TO GROUND SHALL BE GFCI PROTECTED.

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
- 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.

LIGHTING SHALL BE LABELED WITHIN THE BRANCH CIRCUIT

DIRECTORY.

- 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.

1 ELECTRICAL POWER FLOOR PI AN

ELECIKICAL	. PUV	VEK	FLUUF	(PLA	I V
SCALE: 3/16" = 1'-0"					
	4' 3' 2	' 1' 0	4' 3/16" = 1'-0	8'	12'

CALLOUT	PANEL DESCRIPTION	SYMBOL	VOLTS AND PHASE	BREAKER	CIRCUIT	KVA	AMPS	NOTE 1
EQ-3	EQ-3: POS	Ф	120V 1-PH 2W	20/1	CS-1	0.1	0.83	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-3	EQ-3: POS	Ф	120V 1-PH 2W	20/1	CS-1	0.1	0.83	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-4	EQ-4: CHEST FREEZER	Ф	120V 1-PH 2W	20/1	CS-3	0.1	0.83	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-5.1	EQ-5.1: BACK BAR CABINET	Ф	120V 1-PH 2W	20/1	CS-5	0.25	2.1	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-5.1	EQ-5.1: BACK BAR CABINET	Ф	120V 1-PH 2W	20/1	CS-7	0.25	2.1	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-6	EQ-6: BACK BAR CABINET	Ф	120V 1-PH 2W	20/1	CS-9	0.36	3	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-6	EQ-6: HOT DOG GRILL	Ф	120V 1-PH 2W	20/1	CS-13	1.3	10.8	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-9	EQ-9: DISPLAY CASE, REF	Ф	120V 1-PH 2W	20/1	CS-11	0.36	3	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-10	EQ-10: UC REFRIGERATOR	Ф	120V 1-PH 2W	20/1	CS-15	0.36	3	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-13	EQ-13: HEAT LAMP	Ф	120V 1-PH 2W	20/1	CS-17	1	8.33	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-14	EQ-14: SANDWHICH REFRIG	Ф	120V 1-PH 2W	20/1	CS-19	0.78	6.5	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-17	EQ-17: CHEST FREEZER	Ф	120V 1-PH 2W	20/1	CS-21	0.19	1.6	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-19.1	EQ-19.1: ICE MAKER	Ф	120V 1-PH 2W	20/1	CS-23	1.2	10	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-20.1	EQ-20.1: UNDER COUNT. REFRIG	Ф	120V 1-PH 2W	20/1	CS-25	0.48	4	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-22	EQ-22: REACH-IN FREEZER	Ф	120V 1-PH 2W	20/1	CS-27	0.44	3.7	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-24	EQ-24: PIZZA BAKE OVEN	(A)	240/120V 1-PH 3W	20/2	CS-14,16	4.15	17.3	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-25	EQ-25: UC REFRIGERATOR	Ф	120V 1-PH 2W	20/1	CS-35	0.24	2	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
EQ-26	EQ-26: ELECTRIC FRYER	(A)	240/120V 1-PH 3W	60/2	CS-8,10	14	58.33	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
Q-26	EQ-26: ELECTRIC FRYER	(A)	240/120V 1-PH 3W	60/2	CS-2,4	14	58.33	REFER TO KITCHEN VENDOR DRAWINGS FOR DETAILS
IEF-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	

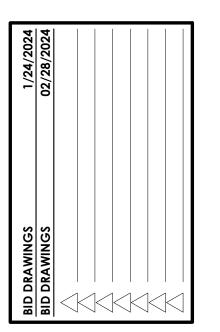
VERIFY ALL INFORMATION ON SCHEDULE WITH EQUIPMENT CUTSHEETS, KITCHEN CONSULTANT DRAWINGS, NAMEPLATE DATA IN FIELD, INCLUDING LOADING, VOLTAGE, AND NEMA RECEPTACLE TYPE CONFIGURATION.

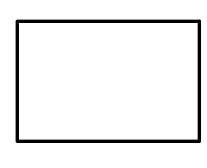
												ELE	CTRICAL	
temNo	Quantity	Unit	Category	Mfr	Model	StockModel	Voltage	Phase	Amps	Cycle	Нр	Kw	ConnectionType	NEMA
1	2	ea	Hand Sink	Krowne	HS-26L									
	2	ea		Krowne	H-100									
2	12	ea	Wire Shelving	John Boos	EPS-1448-G-X									
3	2	ea	POS System	Custom	POS									
4	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9113		115	1	1.6	60			Cord & Plug	5-15F
5.1	2	ea	Back Bar Cabinet, Refrigerated	True Mfg General Foodservice	TBB-24-48G-HC-LD		115	1	2.1	60	1/5		Cord & Plug	5-15F
6	1	ea	Soda Ice & Beverage Dispenser	Cornelius	621053405		115	1	3.0	60				
	1	ea		Cornelius	E400397		115	1	6.5	60	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	10.8	60		1.32	Cord & Plug	5-15F
9	1	ea	Display Case, Hot Food, Countertop	Hatco	FDWD-1-120-QS		120	1	11.6	60		1.39	Cord & Plug	
10	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-48D-2-HC		115	1	3	60	1/5		Cord & Plug	5-15F
11			Spare Number											
12	1	ea	Overshelf	John Boos	OS-ED-1848-X									
13	1	ea	Heat Lamp	Hatco	GRAH-42-120-T-QS		120	1		60		.95		
14	1	ea	Sandwich / Salad Preparation Refrigerator	True Mfg General Foodservice	TSSU-60-16-HC		115	1	6.5	60	1/3		Cord & Plug	5-15F
15	1	ea	Overshelf	John Boos	OS-ED-1860-X									
16			Spare Number											
17	1	ea	Chest Freezer	Atosa USA, Inc.	MMF9110		115	1	1.6	60			Cord & Plug	5-15F
18			Spare Number											
19.1	1	ea	Ice Maker with Bin, Cube-Style	Manitowoc	UDF0310A		115	1	10	60	3/4			5-15F
20.1	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-60-HC		115	1	4	60	1/4		Cord & Plug	5-15F
21			Spare Number	-									-	
22	1	ea	Reach-In Freezer	True Mfg General Foodservice	TS-23F-HC		115	1	3.7	60	1/2		Cord & Plug	5-15F
23	1	ea		Accurex			1.10						, and the second	
24	1	ea	Pizza Bake Oven, Countertop, Electric	Bakers Pride	P44S		208	1	34.6	60			Cord & Plug	6-50F
25	1	ea	Undercounter Refrigerator	True Mfg General Foodservice	TUC-27D-2-HC		115	1	2	60	1/6		Cord & Plug	5-15F
26	2	ea	Electric Floor Fryer	Imperial	IFS-40-E							14.0	, ,	1
	2		,	Imperial	0 0		208	1	68	60		14		
27	1	ea	Griddle, Electric, Countertop	Imperial	ITG-24-E		208	3	29.0	60		8.0		1
28	5	ea	Wire Shelving	John Boos	EPS-1830-G-X		200	·	20.0	- 00		0.0		
29		Ou	Spare Number	GOINI BOOK	LI 0 1000 0 X									
30			Spare Number											
31	1	ea	Three (3) Compartment Sink	John Boos	3B184-X									
01	1	ea	Three (o) comparanent out	John Boos	3B184-X									
	1	ea		John Boos	3B184-X									
	1	ea		Krowne	18-708L									
32	1	ea	Mop Sink	Krowne	MS-2424									
- '	1	ea	·	Krowne	16-127									
33	1	ea	Booster Heater, Tankless, Electric	Hubbell	JTX031-6RS		208	1	149	60		31		
34	5	ea	Wire Shelving	John Boos	EPS-2472-G-X									

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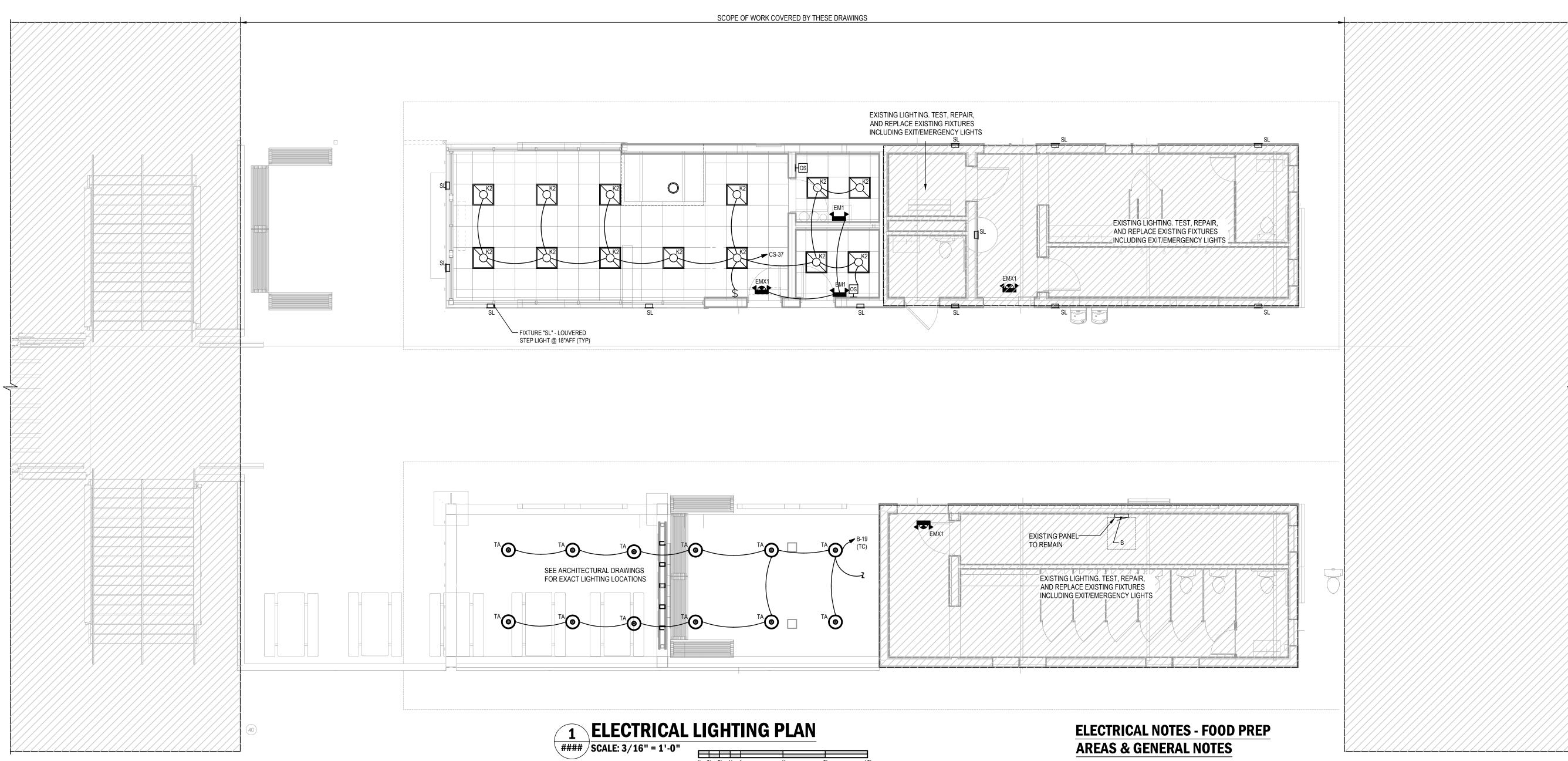
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PHASE PR NO 23118

E2



	LUMINAIRE SCHEDULE												
CALLOUT	QUANTITY	SYMBOL	DESCRIPTION	MOUNTING	MODEL	INPUT VA	VOLTS	NOTE 1					
EM1	2	₩	EMERGENCY LIGHT	WALL/CEILING	SIGNIFY:		120V 1P 2W						
EMX1	3	12	EXIT / EMERGENCY LIGHT, INTERIOR, CEILNIG MOUNT	CEILING	SIGNIFY:		120V 1P 2W						
K2	13	Q	FLAT PANEL 2x2 LAY-IN LED	RECESSED	DAY-BRITE: 2 FPZ 38L 835 2 DS UNV DIM	38	120V 1P 2W						
SL	8		REFER TO ARCHITECTURAL DRAWINGS	SURFACE	REFER TO ARCHITECTURAL DRAWINGS	5	120V 1P 2W						
TA	12	o	REFER TO ARCHITECTURAL DRAWINGS	CEILING	REFER TO ARCHITECTURAL DRAWINGS	15	120V 1P 2W	REFER TO ARCHITECTURAL DRAWINGS					

- 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
- 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.



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NAPLES PIER RECONSTRUCTIO 25 12th Ave S.

MECHANICAL | ELECTRICAL | PLUMBING | ENGINEERING

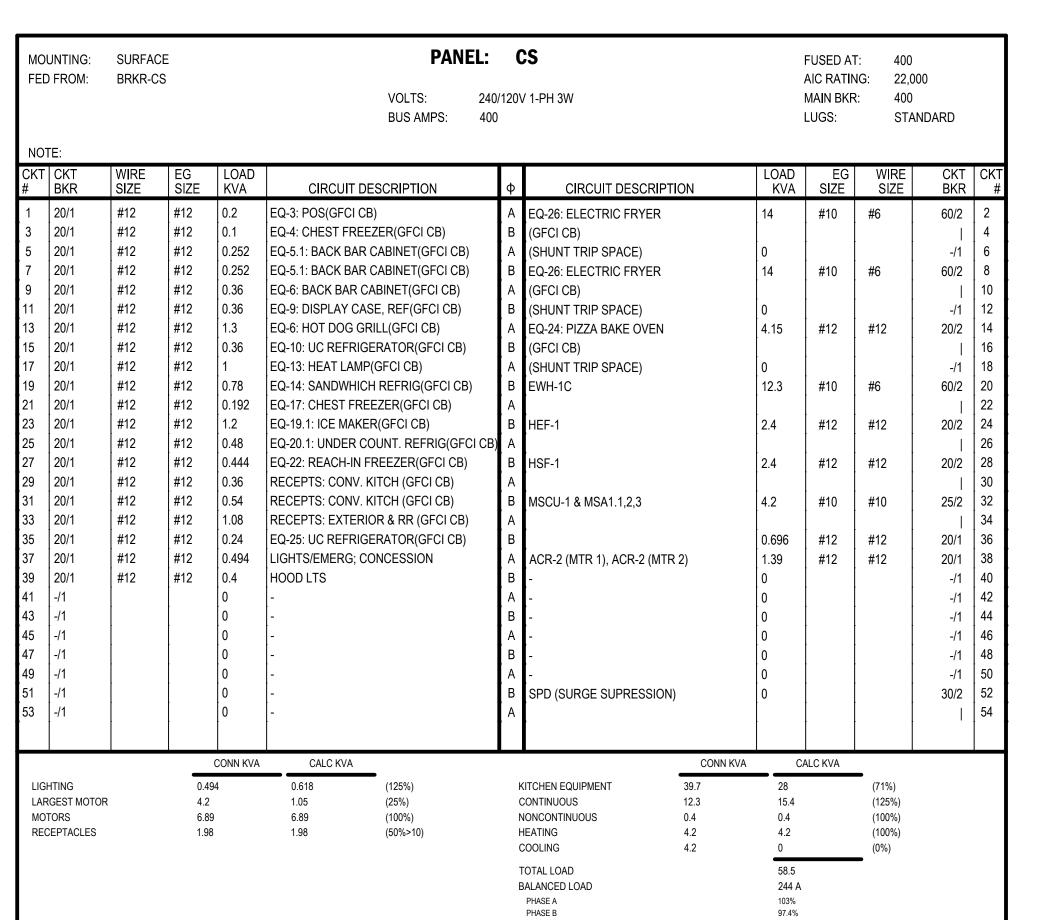
2534 SE SANTA BARBARA PLACE #201

CAPE CORAL, FLORIDA 33904

239.770.0513 | NICKÓMIPSCONSULTINGLIC.COM
NICHOLAS P. STEWART | PRESIDENT

BID DRAWINGS	1/24/2024
BID DRAWINGS	02/28/2024
1	
1	
1	
1	
1	
1	
1	

PHASE 95% PR NO 23118



SPD SURGE SUPRESSION SCHEDULE

QUANTITY

1 PQ PROTECTION

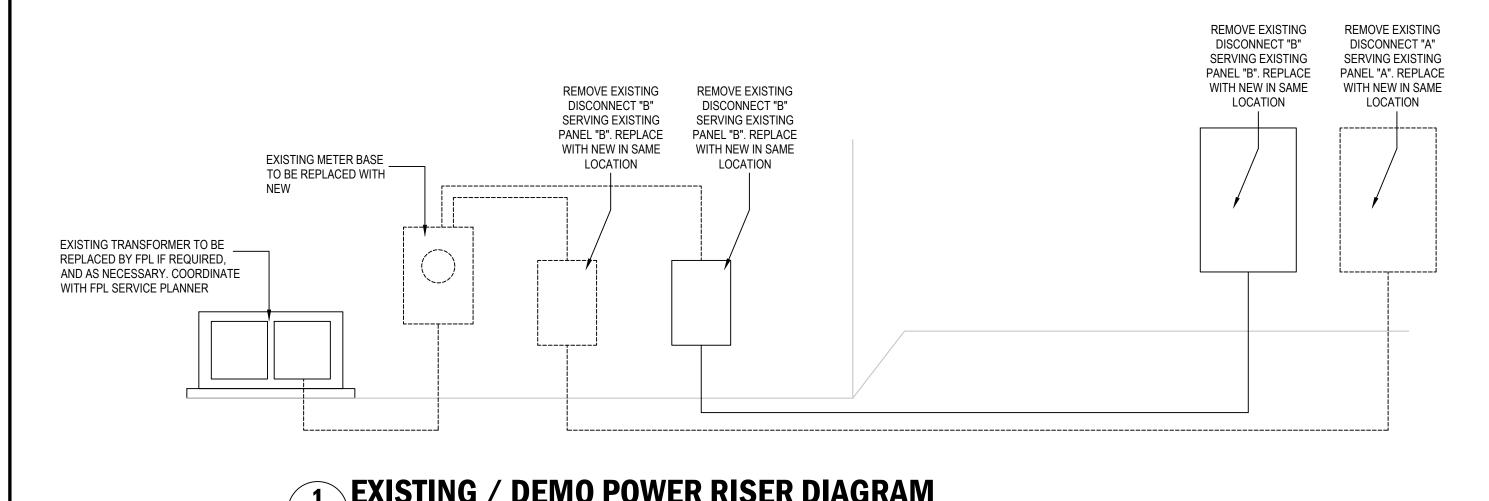
	UNTING: D FROM:	FLUSH BRKR-B			PAN VOLTS: BUS AMPS:		3 / 1-PH 3W			FUSED AT AIC RATIN MAIN BKR LUGS:	NG: 10,00 R: MLO		
_	CKT BKR	WIRE SIZE	EG SIZE	LOAD KVA	CIRCUIT DESCRIPTION	ф	CIRCUIT DES	SCRIPTION	LOAD KVA	EG SIZE	WIRE SIZE	CKT BKR	CK ;
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	#12 #12 #12 #12 #12 #12 #12 #12 #12	#12 #12 #12 #12 #12 #12 #12 #12 #12	1 1 1 1 1 1 1 0.72 0.18 0 0	WOMENS HAND DRYER (EXIST) STEET LTG (EXIST) STEET LTG (EXIST) RECEPTS: UTILITY RM (EXIST) VISITOR COUNTER (EXIST) LIGHTS/EMERG; SEATING (EXIST) SPARE (EXIST) SPARE (EXIST) EXIST CB	A B A B A B A B A B A	MENS HAND DRYER WATER COOLER (EXIST) SPARE (EXIST) SPARE (EXIST) SPARE (EXIST) SPARE (EXIST) SPARE (EXIST) SPO (SURGE SUPRE (EXIST) -	(EXIST) (EXIST) (EXIST) (EXIST) (EXIST) (INST) (INST) (INST) (INST) (INST)	1 1 1 1 1 0.65 0.6 1.08 0 0 0	#12 #12 #12 #12 #12 #12 #12 #12	#12 #12 #12 #12 #12 #12 #12 #12 #12	20/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
LIG	HTING		0.1	CONN KVA 8	CALC KVA 0.225 (125%)	1 -	RECEPTACLES NONCONTINUOUS TOTAL LOAD BALANCED LOAD PHASE A PHASE B	0.72 16.3	VA CA 0.72 16.3 17.3 72 A 110% 90.3%	ALC KVA	(50%>10) (100%)		

SERVICE DISCONNECTING MEANS	
GROUNDED NEUTRAL BUS ———————————————————————————————————	EQUIPMENT GROUND BUS
MAIN ————————————————————————————————————	GEC PER 250.66
GROUNDING ELECTRODE TO WATER PIPING USING LISTED CLAMP	EXOTHERMIC WELD #6 CU GROUNDING ELECTRODE CONNECTION TO BUILDING STEEL, COMPLIANT WITH NEC ART 250
PROVIDE CONCRETE ENCASED ELECTRODE PER NEC 250.52(A)(3)	3/4"Ø COPPER CLAD STEEL GROUND ROD
	E GROUNDING DETAIL

SEE GROUNDING SPECIFICATIONS ON SHEET E1

EQUIPMENT CONNECTION SCHEDULE								
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	
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	

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



kA / PHASE

100 kA

ROOM MOUN FED FF NOTE	TING SURFAC		VO	_TS 240/120V 2P 3W			AIC 22,000 LUGS STA	NDARD	
СКТ	BREAKER				LOAD) KVA			
#	TRIP/POLES	CIRCUIT DESCRIPTION	N		А	В	FEEDER RACEWAY AND COND	UCTORS	
1 2 3	125/2 400/2 -/2	BREAKER BRKR-B BREAKER BRKR-CS -				7.78 32.1 0	1-1/4"C,2#1,#1N,#6G (2)2"C,2#3/0,#3/0N,#3G		
			TOTAL CON	NECTED KVA BY PHASE	43.3	39.9			
		CONN KVA	CALC KVA				CONN KVA	CALC KVA	
MOTOR	ST MOTOR	0.674 4.2 6.89 2.7	0.842 1.05 6.89 2.7	(125%) (25%) (100%) (50%>10)	CONTIN NONCO HEATIN COOLIN TOTAL	ONTINUOUS NG	T 39.7 12.3 16.7 4.2 4.2	28 15.4 16.7 4.2 0 75.8 316 A	(71%) (125%) (100%) (100%) (0%)

#### SCALE: NTS Wireway (W-A)	PANEL CS 400A 240/120V 2P 3W 54 POLES MCB NEMA-3R NEW SPD-P	PANEL B 125A 240/120V 2P 3W 30 POLES MLO EXISTING TC/PC	NEW 8-POLE LIGHTING CONTROLLER & DIGITAL ASTROMICAL TIMECLOCK WITH BATTERY +PHOTOCELI OVER-RIDE (TYP OF 2)
BRKR-B 125A 240/120V 2P 3W (REPLACE) NEMA 4X BRKR-CS 400A 240/120V 2P 3W (NEW) NEMA-4X	EW FEEDER)	120/2.0	

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	

BIDDING PURPOSES.

DEVICE		FEEDER		TOTAL
	VOLTAGE DROP	VOLTAGE DROP WIRE SIZE		VOLTAGE DROP
UT-1	0%		-	0%
METER (M-P)	0.47%	(2)#350kcmil	67'	0.47%
WIREWAY (W-A)	0.58%	(2)#350kcmil	15'	0.58%
BRKR-B	0.67%	#1	13'	0.67%
В	1.03%	#1	47'	1.26%
BRKR-CS	0.67%	(2)#3/0	11'	0.67%
CS	1.07%	(2)#3/0	50'	2.67%

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	10,672	22,000	240V	120V	

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

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)

1	POWER RISER DIAGRAM
\ #### <i>/</i>	SCALE: NTS

NOTE: DESIGN SCOPE OF THESE DRAWINGS LIMITED TO PANEL "CS" AND INDICATED FEEDER. REFER TO DRAWINGS PROVIDED BY OTHERS FOR CONTINUATION. COORDINATE WITH GENERAL CONTRACTOR AT BIDDING TO ENSURE SCOPE CONTINUITY AND MATERIAL CONSISTENCY.

ALL EXTERIOR EQUIPMENT TO BE NEMA-4X. FEEDER SHALL BE PVC WITH EXPANSION FITTINGS. ALL HANGARS AND HARDWARE TO BE MARINE GRADE STAINLESS STEEL.

NOT FOR CONSTRUCTION OR PERMITTING

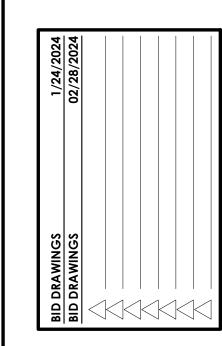
ARCHITECTURE

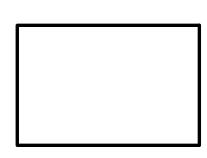
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NAPLES PIER RECONSTRUCTION 25 12th Ave S.

MECHANICAL | ELECTRICAL | PLUMBING | ENGINEERING 2534 SE SANTA BARBARA PLACE #201 CAPE CORAL, FLORIDA 33904 239.770.0513 | NICK®NPSCONSULTINGLIC.COM NICHOLAS P. STEWART | PRESIDENT WWW.NPSCONSULTINGLIC.COM NICHOLAS P. STEWART | PRESIDENT WALL AND THE STEWART | PROPERTY | PRO





PHASE 95% PR NO 23118

GENERAL ELECTRICAL NOTES

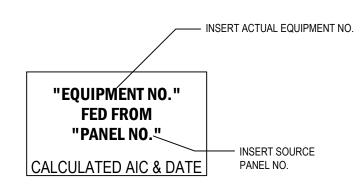
- CONTRACTOR SHALL PROVIDE CATALOG CUT SHEET SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS UNDER CONTRACTORS SCOPE OF SUPPLY.
 OWNER APPROVAL IS REQUIRED PRIOR TO PROCUREMENT.
- ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED AND SHALL BEAR THE UL LABEL.
- 3. ALL WORK SHALL COMPLY 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.
- 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.



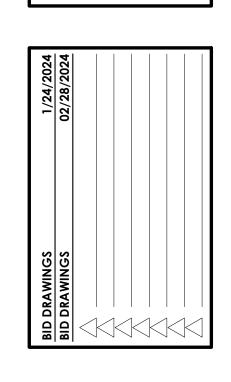
- 8. LIGHT SWITCHES SHALL BE MOUNTED AT 48" AFF.
- 9. PROVIDE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALL PENETRATIONS.
- 10. CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, OR EQUAL, SUPPORT BRACKETS AS REQUIRED FOR ALL DISCONNECTS SWITCHES, PANELS, ETC.
- 1. CONTRACTOR SHALL COORDINATE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

THE DRAWING AND DESIGN WITHIN THIS HARD COPY OR DIGITAL FILE IS THE PROPERTY AND CREATION OF MHK ARCHITECTURE AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN CONSENT OF MHK ARCHITECTURE.

ECONSTRUCTION
25 12th Ave S.

PS CA#32236

CA#3236



PHASE PR NO	95% 23118
E	<u> </u>

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

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.

(132 MPH ALLOWABLE)

SUPERIMPOSED DEAD LOADS:

20 PSF 300 POUND CONCENTRATED

30 PSF

170 MPH

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

ROOF LIVE LOAD:

RAIN LOAD:

RAINFALL INTENSITY 5.0 IN/HR

WIND SPEED (ASCE 7-22) RISK CATEGORY

EXPOSURE

INTERNAL PRESSURE COEFF 0.0 OPEN BUILDING INTERNAL PRESSURE COEFF +/- 0.55 PARTIALLY ENCLOSED

INTERNAL PRESSURE COEFF +/- 0.18 **ENCLOSED** WALL PRESSURE +/- 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:

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

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

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

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.

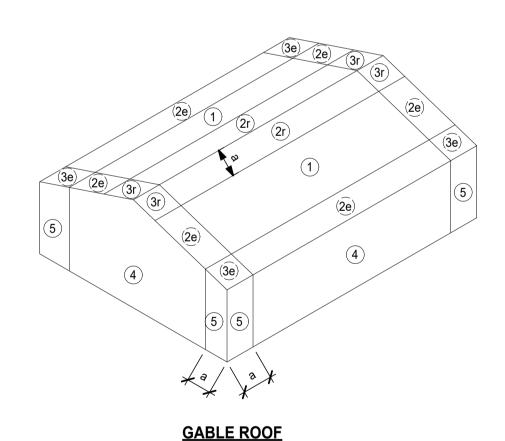
PLYWOOD: PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS OTHERWISE NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.

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.



	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	

a= 3

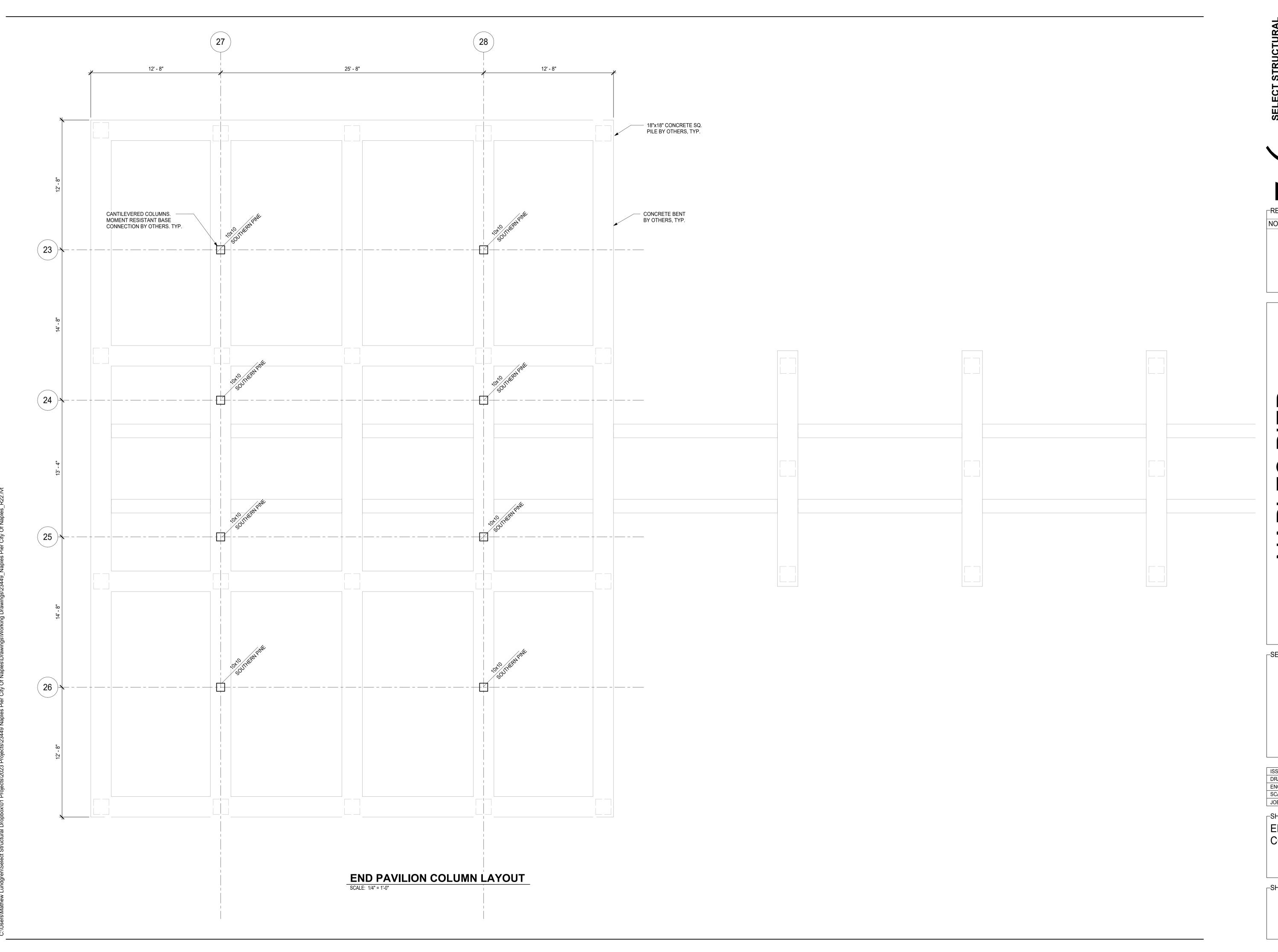
COMPONENT & CLADDING DIAGRAM

-REVISIONS-NO. DATE DESCRIPTION

ISSUED DATE: 11.16.23 DRAWN BY: MSL ENGINEERED BY: MSL SCALE: NOT TO SCALE JOB NO.: 23449

-SHEET TITLE:-**GENERAL NOTES**

SHEET NO .:-



REVISIONS

NO. DATE DESCRIPTION

ISSUED DATE: 11.16.23

DRAWN BY: MSL

ENGINEERED BY: MSL

SCALE: 1/4" = 1'-0" JOB NO.: 23449

_SHEET TITLE:— END PAVILION COLUMN LAYOUT

S.2.0

-SEAL-

ISSUED DATE: 11.16.23
DRAWN BY: MSL
ENGINEERED BY: MSL
SCALE: 3/32" = 1'-0"
JOB NO.: 23449

SHEET TITLE:
MID PAVILION
COLUMN LAYOUT

S12.1

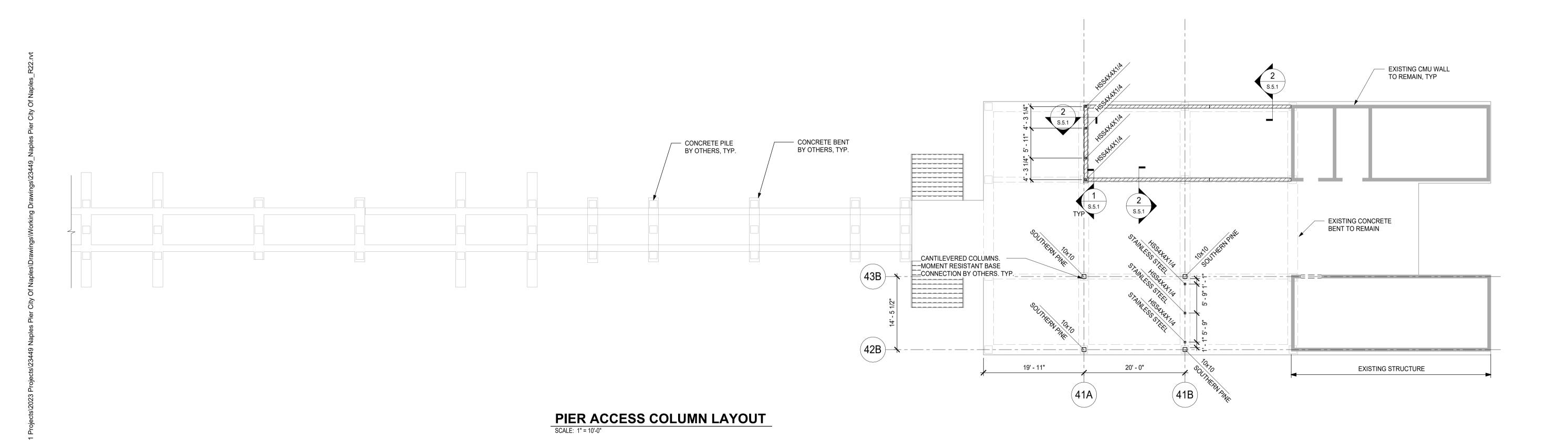
MID PAVILION COLUMN LAYOUT
SCALE: 3/32" = 1'-0"

FOUNDATION PLAN NOTES:

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.



ELECT STRUCTURAL 2573 New Brittany Blvd ort Myers, Florida 33907 none: (239) 210-5090 fo@selectstructural.comertification Auth. 28357



_REVISIONS—

NO. DATE DESCRIPTION

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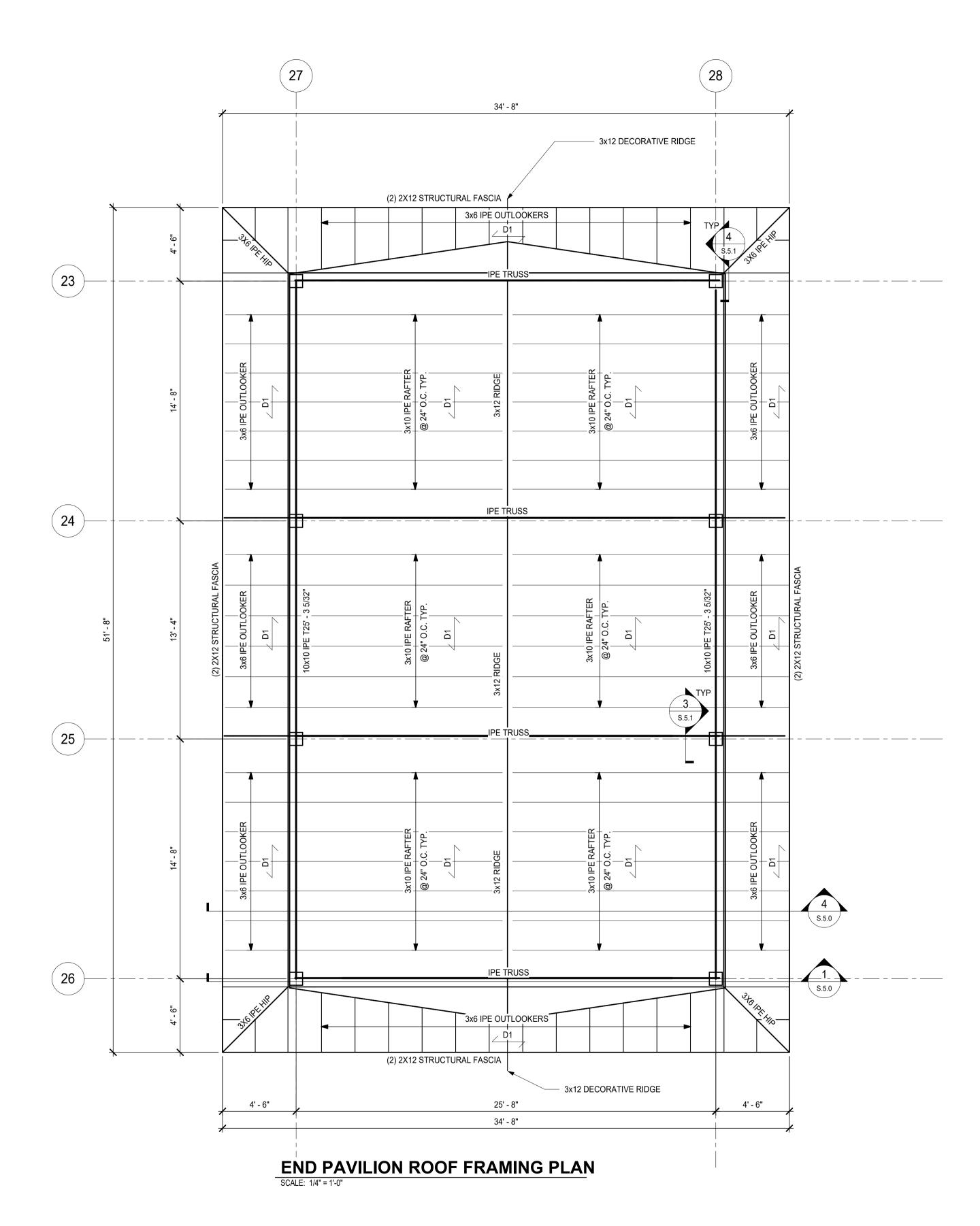
SEAL

ISSUED DATE: 11.16.23
DRAWN BY: MSL
ENGINEERED BY: MSL
SCALE: As indicated
JOB NO.: 23449

PIER ACCESS
COLUMN LAYOUT

-SHEET NO.:-

S.2.2



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.

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

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

STRUCTUF

W Brittany B
S, Florida 33
(39) 210-509

1257 Fort Phor info@ Certi

REVISIONS—

NO. DATE DESCRIPTION

CTON

25 12TH AVE SOUT NAPLES, FL 34102

SEAL

ISSUED DATE: 11.16.23

DRAWN BY: MSL

ENGINEERED BY: MSL

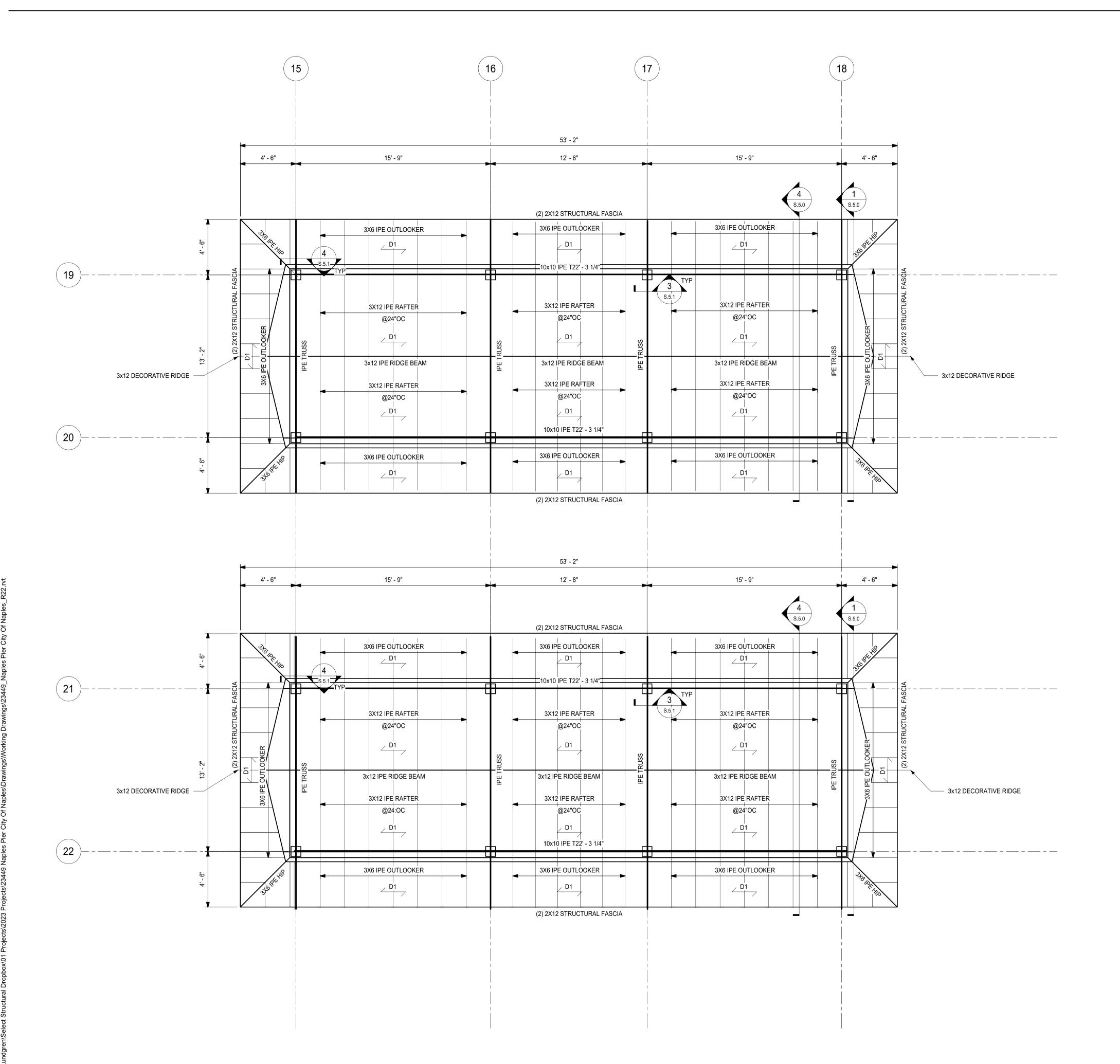
SCALE: 1/4" = 1'-0"

JOB NO.: 23449

END PAVILLION
ROOF FRAMING
PLAN

-SHEET NO.:-

S.4.0



SELECT STRU 12573 New Brit Fort Myers, Flor Phone: (239) 2 info@selectstru

REVISIONS-

NO. DATE DESCRIPTION

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. <u>D2</u> 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.

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25 12TH AVE SOUTH NAPLES, FL 34102

_SEAL_____

ISSUED DATE: 11.16.23

DRAWN BY: MSL

ENGINEERED BY: MSL

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

JOB NO.: 23449

SHEET TITLE:

MID PAVILION ROOF FRAMING PLAN

-SHEET NO.:-

S.4.1

MID PAVILION ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

CONCRETE BEAM SCHEDULE							
			REINFORCEMENT				
MARK	WIDTH	DEPTH	TOP	MID	ВОТ	STIRRUPS	COMMENTS
B1	8"	1' - 0"	(2) #8	-	(4) #8	#3 @ 4" OC	-
TR1	7 3/4"	1' _ Δ"	(2) #5	_	(2) #5	#3 @ 48" OC	_

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.

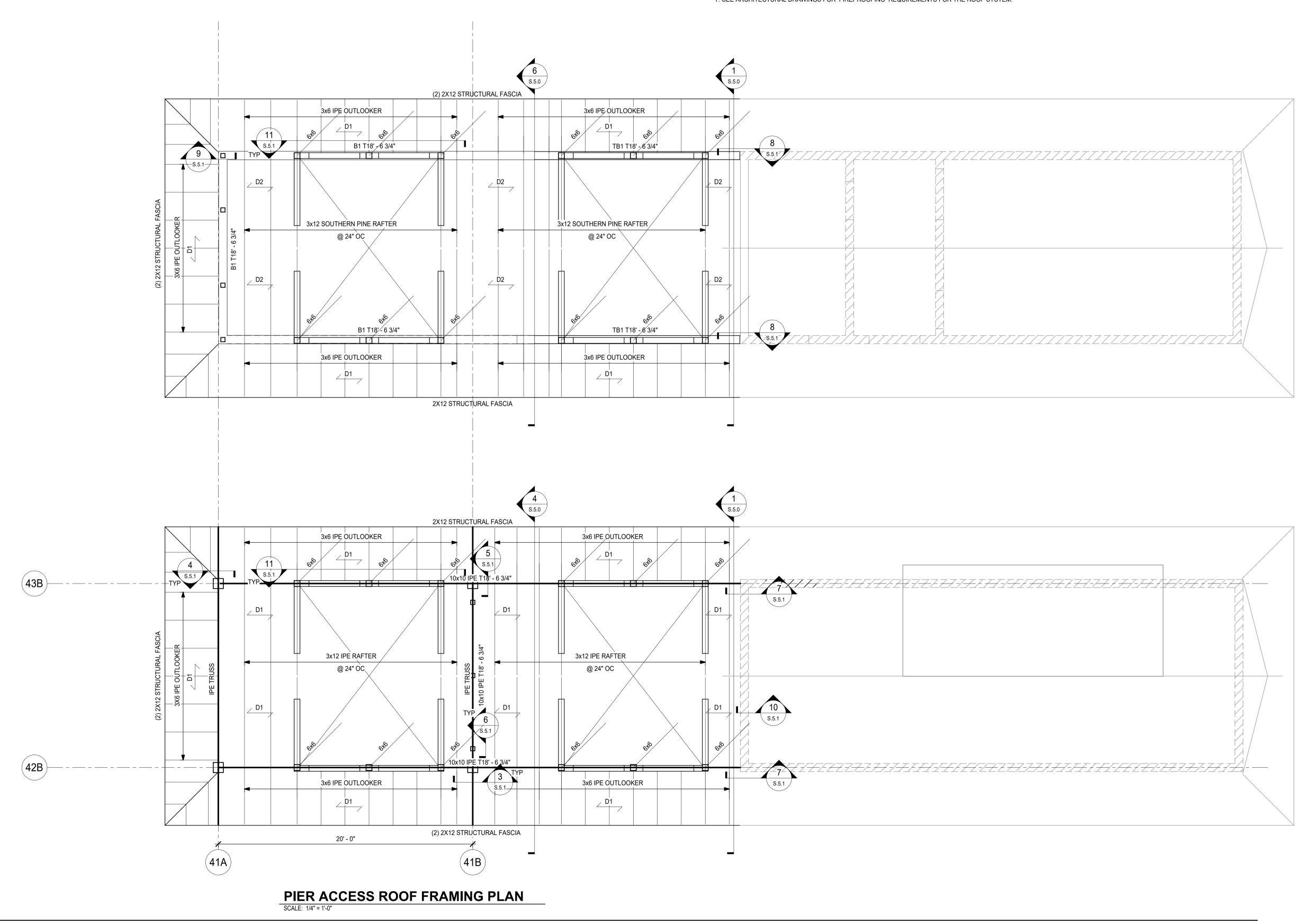
3. TX'-X" INDICATES TOP OF BEAM ELEVATION.

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

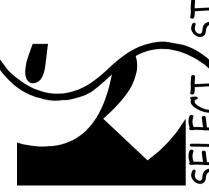
5. ZD2 INDICATES 3/4" PLYWOOD SHEATHING W/ 10d RINGSHANK NAILS AT 4" OC AT PANEL EDGES AND 6" OC AT INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

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

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



of 5 New Brittarry Est Myers, Florida 33 Jone: (239) 210-509 fo@selectstructural ertification Auth. 28



_REVISIONS-

NO. DATE DESCRIPTION

NO NO

RECONSTRUCT
25 12TH AVE SOUTH

EAL-----

ISSUED DATE: 11.16.23

DRAWN BY: MSL

ENGINEERED BY: MSL

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

JOB NO.: 23449

SHEET TITLE:

PIER ACCESS LOW

ROOF FRAMING

PLAN

-SHEET NO.:----

S.4.2

ISSUED DATE: 11.16.23

DRAWN BY: MSL

ENGINEERED BY: MSL

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

JOB NO.: 23449

PIER ACCESS HIGH ROOF FRAMING PLAN

S.4.3

ROOF FRAMING PLAN NOTES

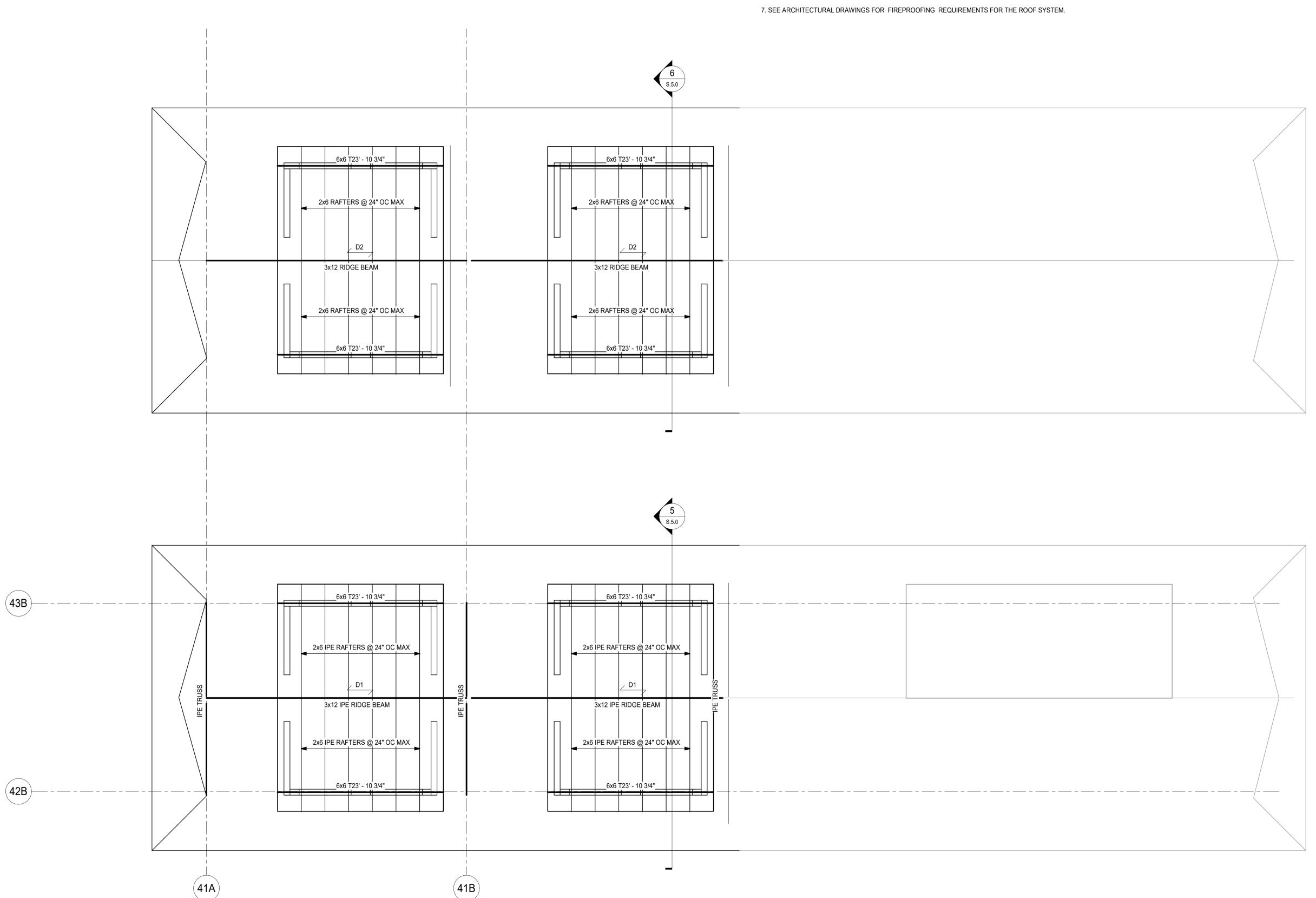
1. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SLOPES AND ACCESS HATCH LOCATIONS.

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

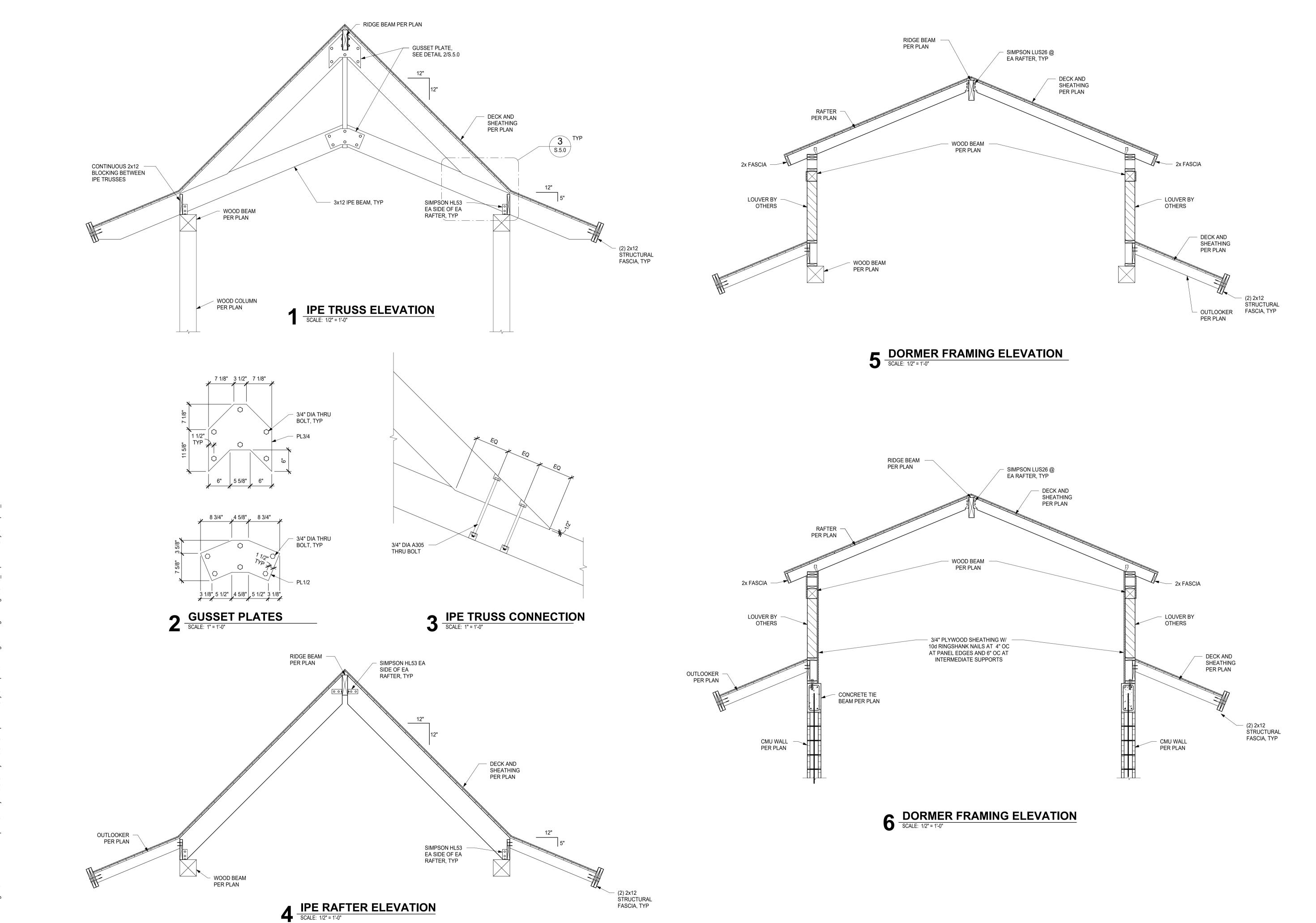
3. TX'-X" INDICATES TOP OF BEAM ELEVATION.

- 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. <u>D2</u> 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.



PIER ACCESS ROOF FRAMING PLAN

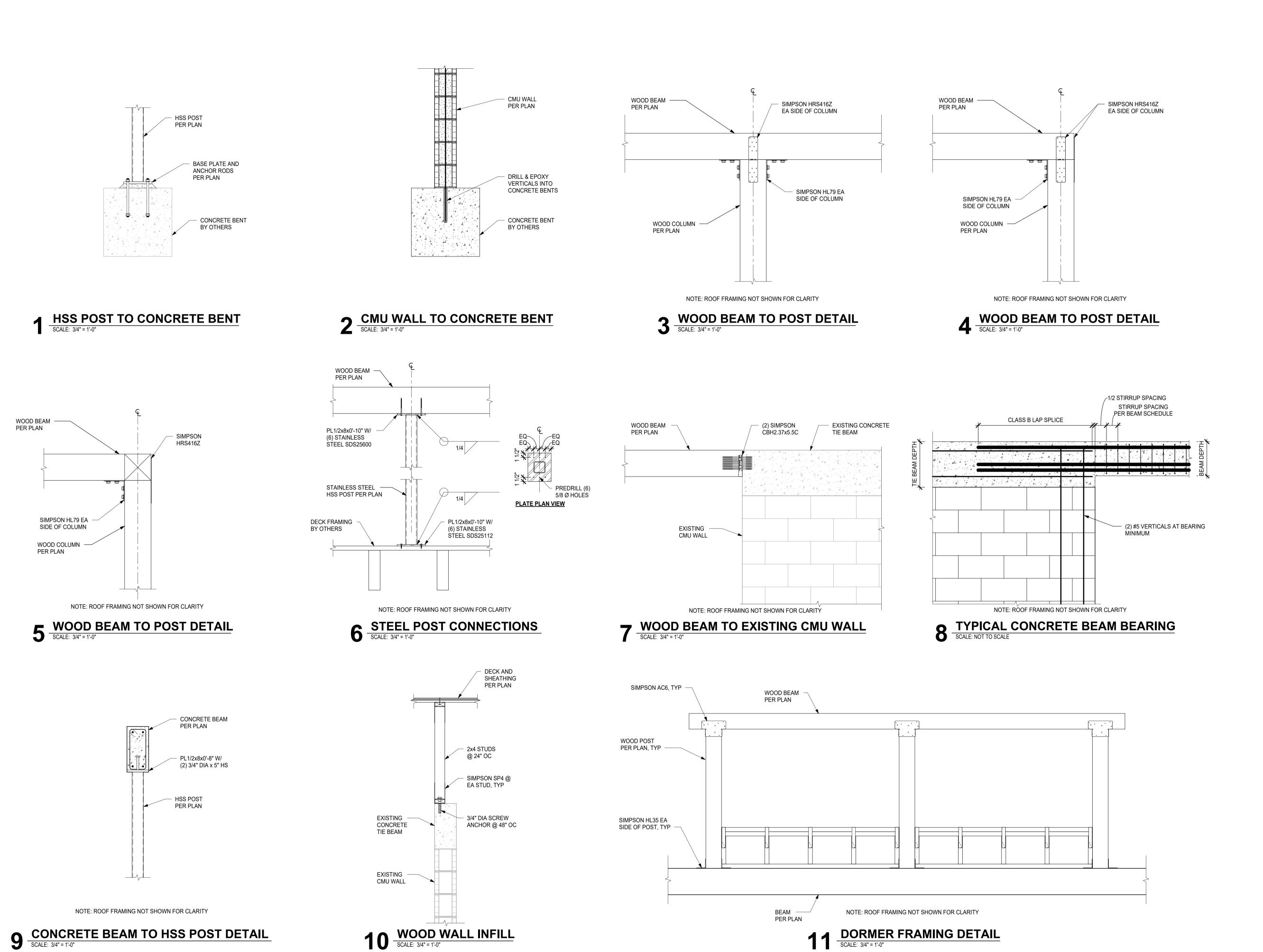


_REVISIONS-NO. DATE DESCRIPTION

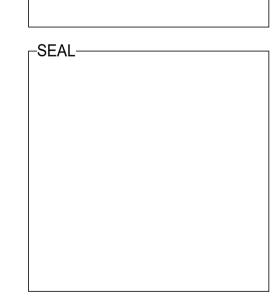
ISSUED DATE: 11.16.23 DRAWN BY: MSL ENGINEERED BY: MSL SCALE: As indicated JOB NO.: 23449

_SHEET TITLE:-DETAILS

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REVISIONS-NO. DATE DESCRIPTION



ISSUED DATE: 11.16.23 DRAWN BY: MSL ENGINEERED BY: MSL SCALE: 3/4" = 1'-0" JOB NO.: 23449

_SHEET TITLE:-DETAILS

S.5.1