

GENERAL NOTES:

1. This Product Evaluation Document (PED) evaluates the Capsule Pak Eco™ Self Contained Refrigeration System (Cap Pak) as manufactured by Refrigerated Solutions Group (RSG) for compliance with the structural provisions of the Florida Building Code, Building 9th Edition (2026), excluding the High Velocity Hurricane Zones.

2. The Cap Pak System and this evaluation are to be used exclusively with RSG's Florida Product Approved Walk-in Cooler/Freezer systems, FL28473-R8 and FL43870-R2 (Knezevich Consulting Drawings KC26-0708 & KC26-0709 respectively).

3. This PED addresses the structural and material requirements for compliance with the structural portions of the noted codes. Architectural, mechanical, electrical and waterproofing requirements are not part of the evaluation. Specific use of the evaluation requires the Architect or Engineer of Record to address the architectural, mechanical, electrical, and waterproofing requirements for the installation to the satisfaction of the Authority Having Jurisdiction.

4. Installation of the Cap Pak System requires incorporating the reinforced roof panels identified herein as Cap Pak Roof Panel 1 (CP1) and the Cap Pak Roof Panel 2 (CP2) into the approved Walk-in Cooler/Freezer system. These panels shall be located under the Cap Pak System as detailed herein.

5. Design Loads

A. Roof:

1) Live Load20.0 psf

2) Cap Pak Roof Panel 1 Dead Load10.0 psf

3) Cap Pak Roof Panel 2 Dead Load8.0 psf

4) Cap Pak Eco™ System300 lbs max

5) Wind Load: Zone 3 ASD Uplift53.9 psf

6) Wind Load: Zone 2 ASD Uplift42.5 psf

B. Cap Pak Equipment:

1) Wind Load: ASD Lateral Load51.4 psf

2) Wind Load: ASD Uplift Load40.6 psf

C. Design wind loads shown above are the maximum ASD wind loads the system is designed to resist. Site specific wind loads shall be less than or equal to these and shall be determined in accordance with the Authority Having Jurisdiction and the governing code provisions at the time of permit based on the site specific conditions. Wind loads determined in accordance with FBC Section 1609 shall be multiplied by the ASD load factor of 0.6 for comparison with allowable loads on these documents.

6. This PED is generic and does not include information for site specific application of this system.

7. This PED shall bear the original or digitally authenticated signature, date and seal of John W. Knezevich, PE and is only valid in the State of Florida
8. Any modification or additions to this PED will void the documents.

9. This PED shall not be applied by the Contractor on a specific site without the involvement of an Architect or Engineer of Record (A/E of Record). The A/E of Record shall be responsible for compliance with the code requirements of a specific installation including but not limited to the following:

A. Verify the site specific wind load requirements are within the criteria used to develop this PED as identified in Note 5 above.

B. Weather protection, architectural, mechanical, and electrical requirements are outside the scope of these PEDs. Determine and/or provide for compliance with the requirements of the Authority Having Jurisdiction.

10. When the site conditions deviate from this PED, Site Specific documents shall be prepared, dated and sealed by a Licensed Engineer or Registered Architect, which detail and justify the deviation. Said documents shall be submitted to our office for review and acceptance.

11. Plates, bent plates, channels and angles shall be steel complying with ASTM A653 CS with a min. Fy = 31 ksi, and a thickness as designated. Where material is not embedded, a min G90 coating is required and within 3,000 feet of a saltwater coastline, coating shall comply with FBC Section 1711.

12. Screws shall shall be HWH ITW Buildex Tek®/ Select with a Climaseal ACR™ corrosion resistant finish, or SS complying with FBC Section 1711 for installations within 3,000 feet of a saltwater coastline. #10 screws shall be #10-16 x 3/4", u.on. #12 screws shall be #12-14 x 1", u.o.n. At the two condenser reinforcing legs, use #12-14 x 2" screws.

13. All concrete anchors shall be as specified on the drawings. Embedment lengths noted on the drawings shall not include finish material. Anchors are approved for use in uncracked concrete only with a min. f'c = 3,000 psi.

14. An allowable stress increase is not used in the design of the cooler/freezer unit nor its attachments.

15. Dissimilar metals in contact with aluminum shall be protected in accordance with the Aluminum Design Manual, Chapter M.7.
- POLYURETHANE FOAM SANDWICH PANEL SPECIFICATIONS:
1. Evaporator walls and top panels are 2" composite sandwich panels comprised of 3003-H14 aluminum with a 0.032" thickness.

2. Roof panels CP1 & CP2 shall be RP2 panels as shown on the documents referenced in General Note 2 except they shall be reinforced with 2C-2 & 2C-3 inserts as shown herein.

3. Foam core as specified on the documents referenced in General Note 2.
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- 1 SAMPLE ROOF WIND LOAD ZONES ATTACHED WALK-IN COOLER FREEZER
1/8" = 1'-0" ASCE 7-22 Fig. 30.3-3
-
- 2 SAMPLE ROOF WIND LOAD ZONES FREE STANDING WALK-IN COOLER FREEZER
1/8" = 1'-0" ASCE 7-22 Fig. 30.3-2A
- KNEZEVICH CONSULTING

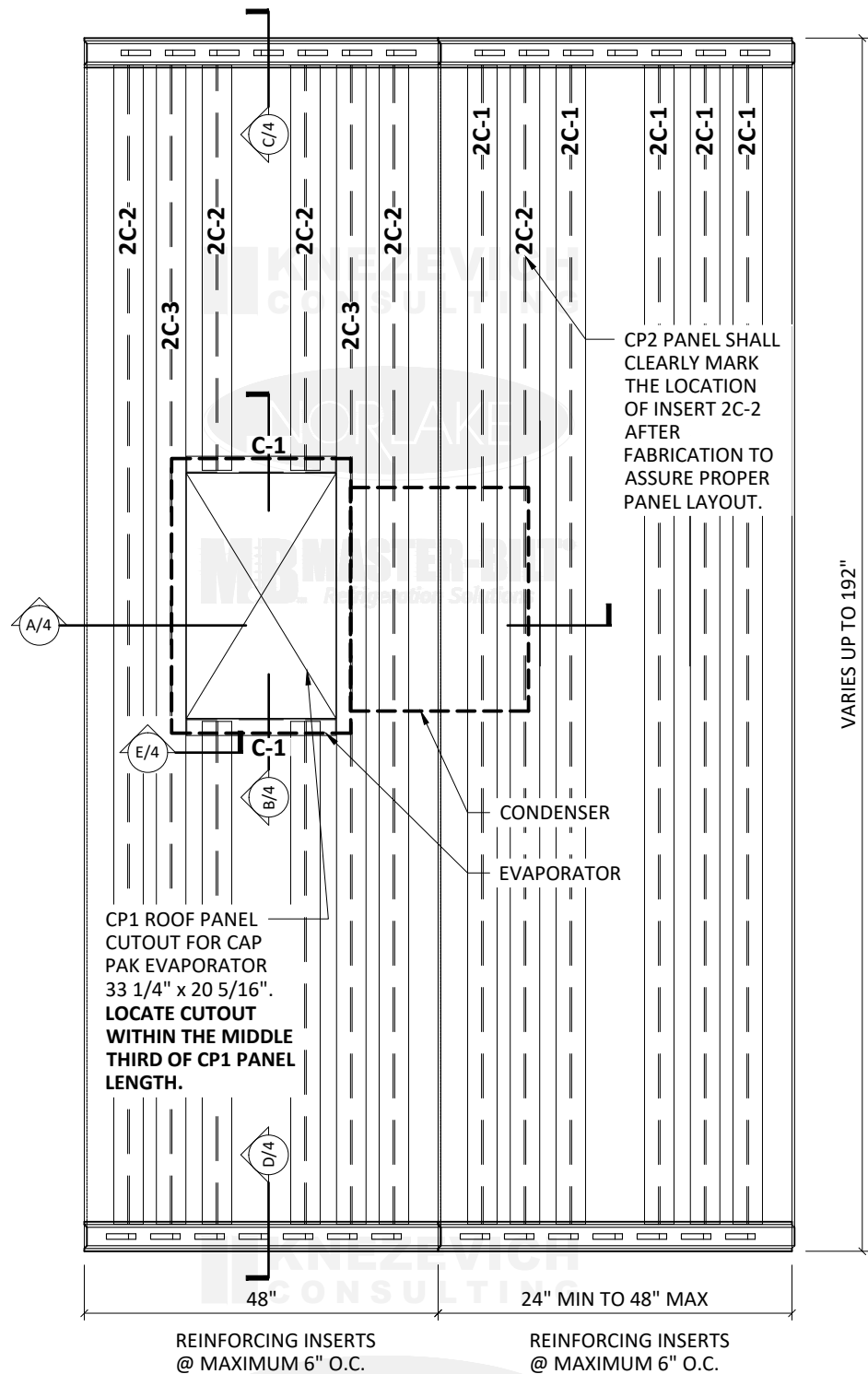
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- CAPSULE PAK ECO™ SYSTEM

Client / Manufacturer: REFRIGERATED SOLUTIONS GROUP

727 Second Street
Hudson, WI 54016-0248
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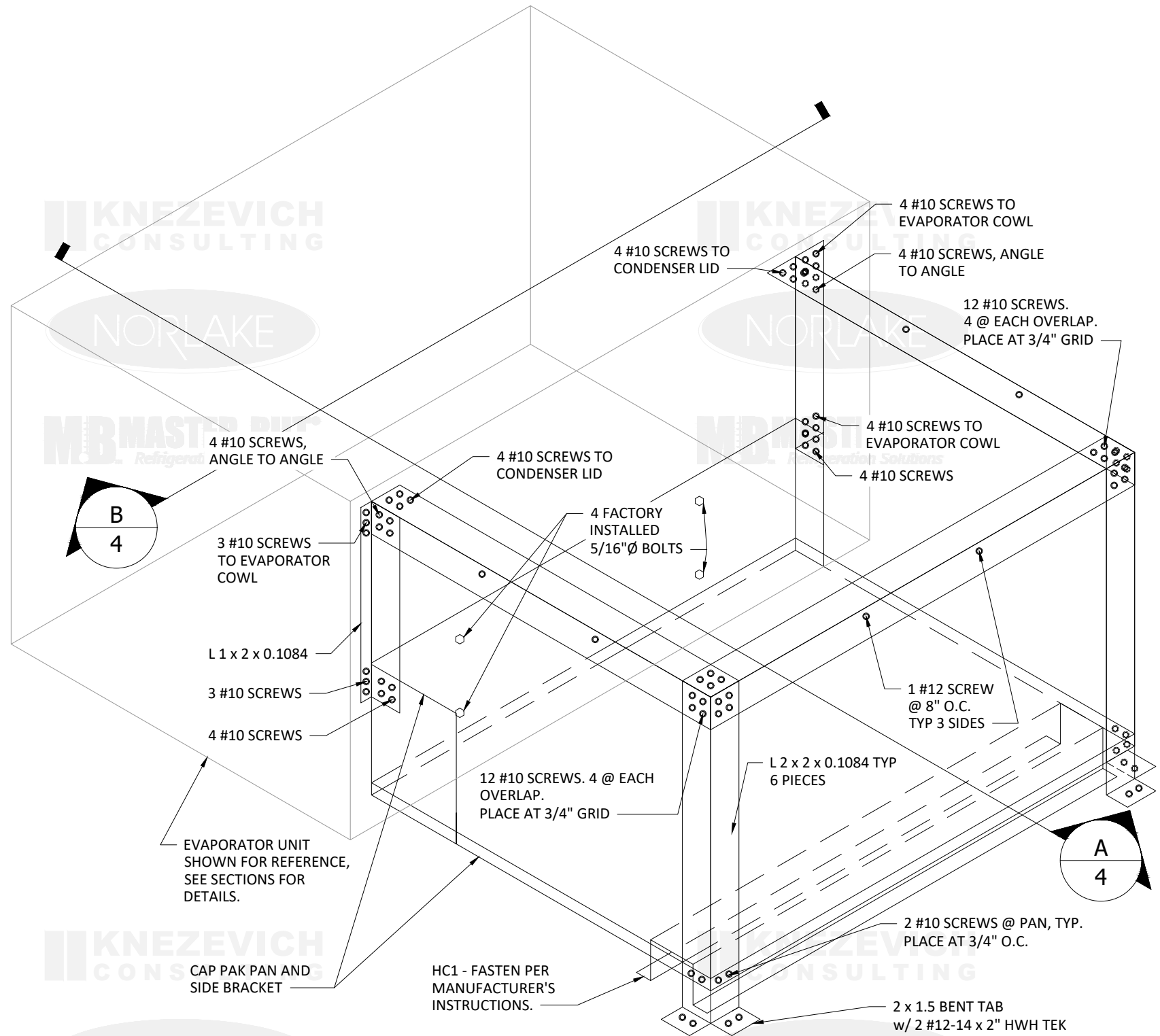
NORLAKE

MB MASTER-BILT® Refrigeration Solutions
- | Revisions | | Description | |
|-----------|------------|-------------|---|
| No. | Date | By | |
| 0 | 09/08/2026 | JWK | JWK FBC 2026 Update, previously KC25-0310 |
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- Scale: AS NOTED
Drawn by: JWK
Date: 09/08/2026
J.W. Knezevich
Professional Engineer
FL License No. PE 41961
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Digitally signed by John W. Knezevich
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- Drawing No.
KC26-0710
sheet 1 of 4
-



CP1 CAP PAK ROOF PANEL 1
1/2" = 1'-0"

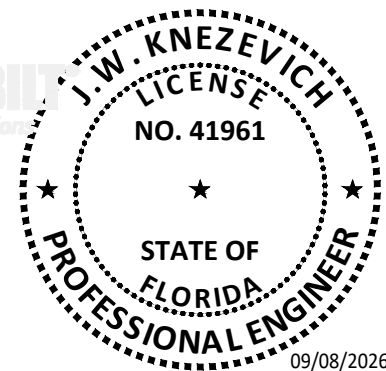
CP2 CAP PAK ROOF PANEL 2
1/2" = 1'-0"



CONDENSER REINFORCING NOTES:

1. Fabricate angles with with 1/16"Ø pilot holes for tek screw alignment.
2. Maintain a minimum edge distance of 1/2" and a minimum screw spacing of 5/8".
3. Install all angles as shown following manufacturer's complete installation instructions.
4. Locate unit as shown in Detail A/4 confirming that screws from vertical legs to roof panels engage the embedded steel reinforcing elements as shown in Detail A/4.

2 CONDENSER REINFORCING
1.5" = 1'-0"



Revisions		Description	
No.	Date	By	Description
0	09/08/2026	JWK	FBC 2026 Update, previously KC25-0310

Scale: AS NOTED

Drawn by: JWK

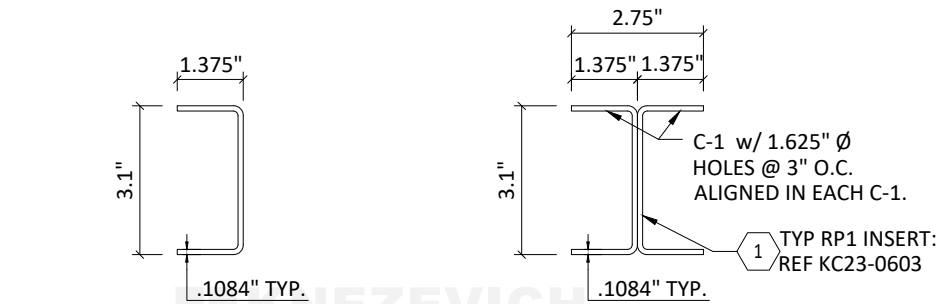
Date: 09/08/2026

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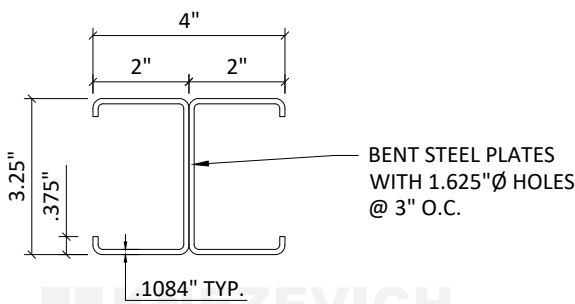
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Drawing No.
KC26-0710
09/08/2026
sheet 2 of 4

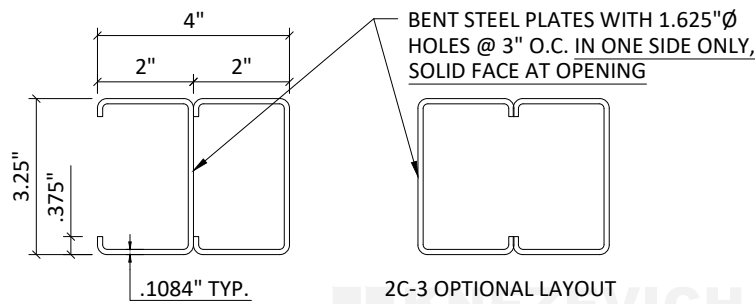


C-1 **C3.1 x 1.375 x .1084**
3" = 1'-0"

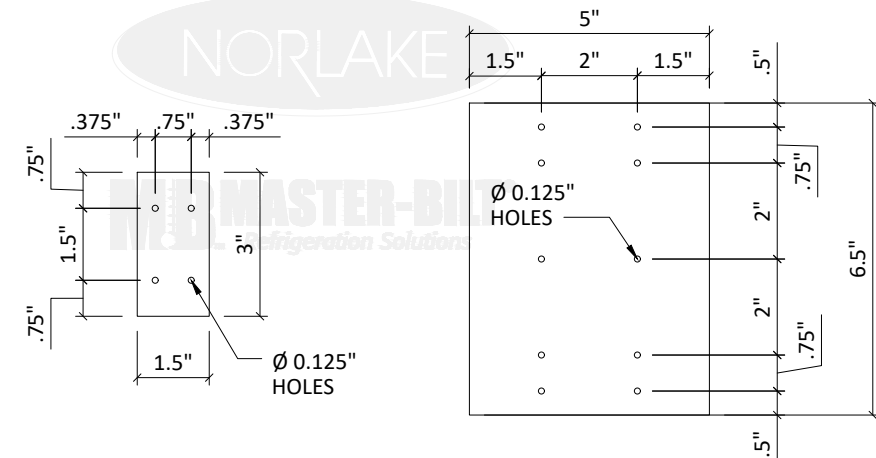
2C-1 **2C3.1 x 1.375 x .1084**
3" = 1'-0"



2C-2 **2CS3.25 x 2.0 x .1084**
3" = 1'-0"

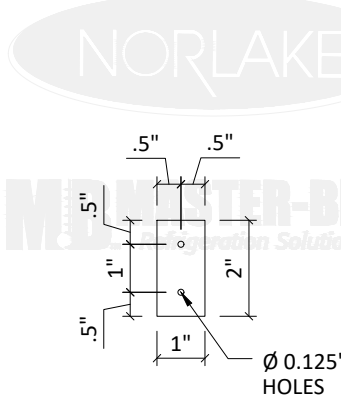


2C-3 **2CS3.25 x 2.0 x .1084**
3" = 1'-0"

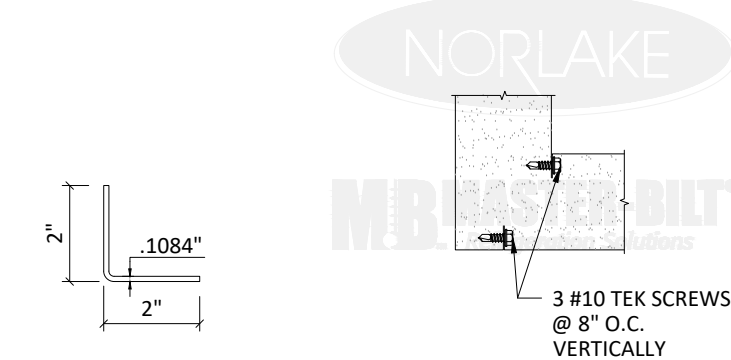


PL1 **PL 1.5 x 3 x .1084**
3" = 1'-0"

PL2 **PL 6.5 x 5 x .1084**
3" = 1'-0"



PL3 **PL 1 x 2 x .0598**
3" = 1'-0"

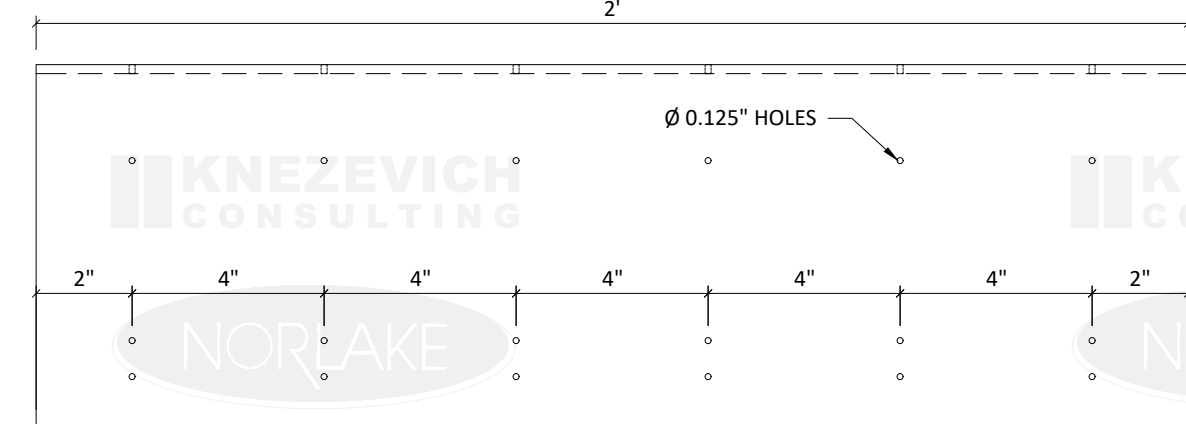


L2 **L 2 x 2 x 0.1084**
3" = 1'-0"

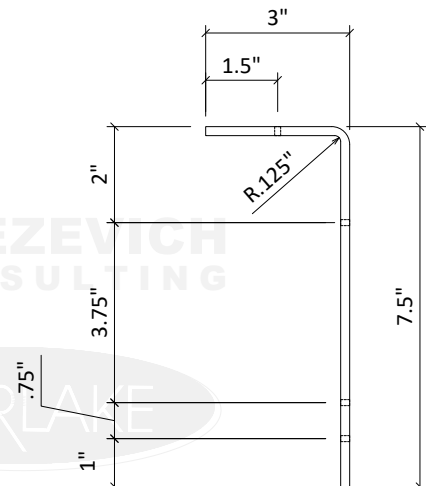
WC **EVAPORATOR COWL WALL CORNER DETAIL**
3" = 1'-0"



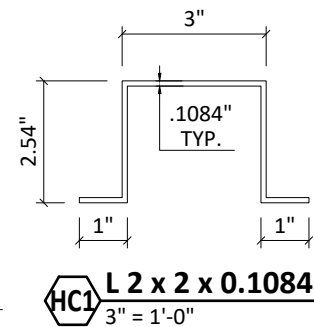
TOP VIEW



FRONT VIEW

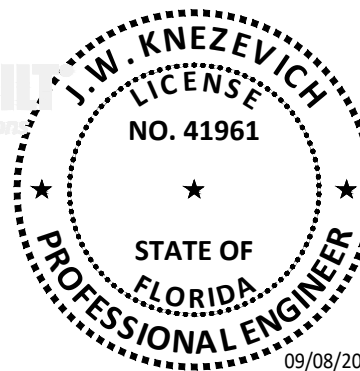


SIDE VIEW



HC1 **L 2 x 2 x 0.1084**
3" = 1'-0"

L3 **L 3 x 7.5 x 1/8 x 2'-0" (4'-0" OPTIONAL)**
3" = 1'-0"



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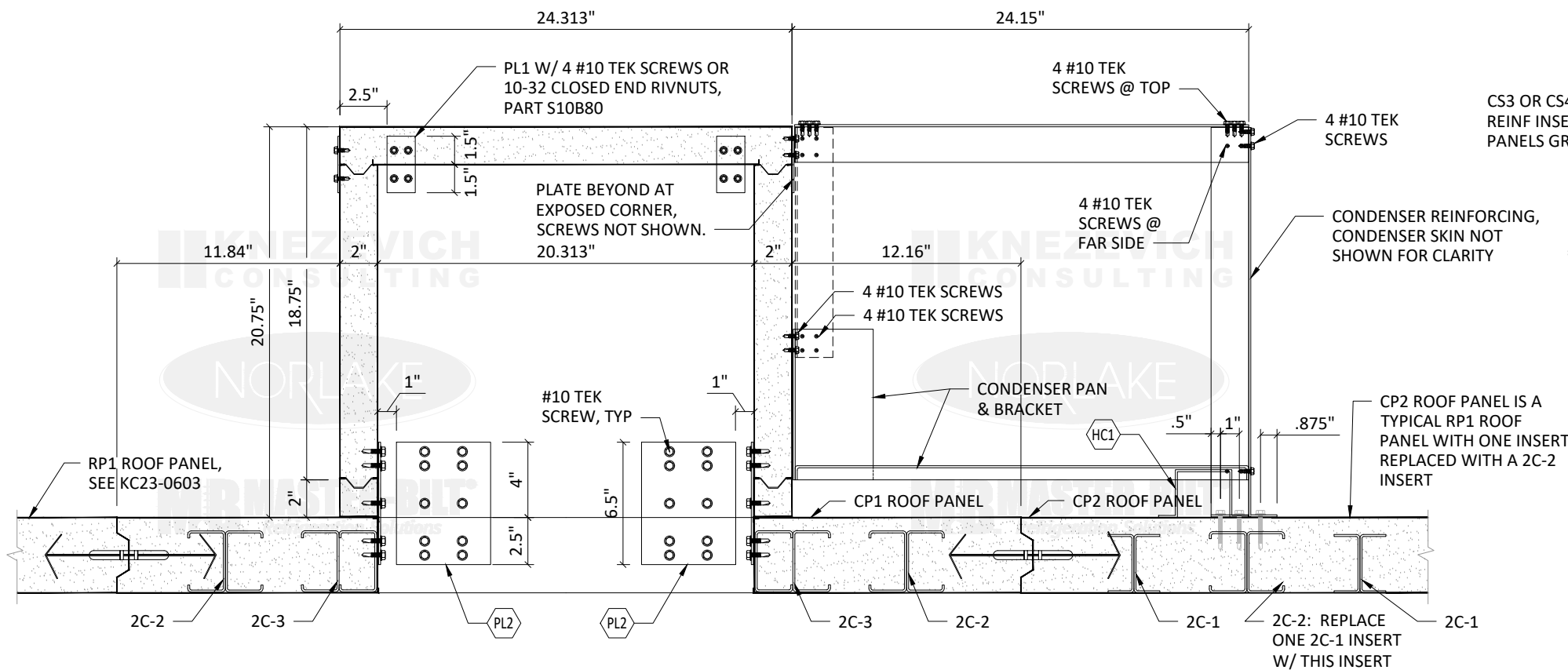
Revisions		CAPSULE PAK ECO™ SYSTEM	
No.	Date	By	Description
0	09/08/2026	JWK	FBC 2026 Update, previously KC25-0310

Scale: AS NOTED
Drawn by: JWK
Date: 09/08/2026
J.W. Knezevich
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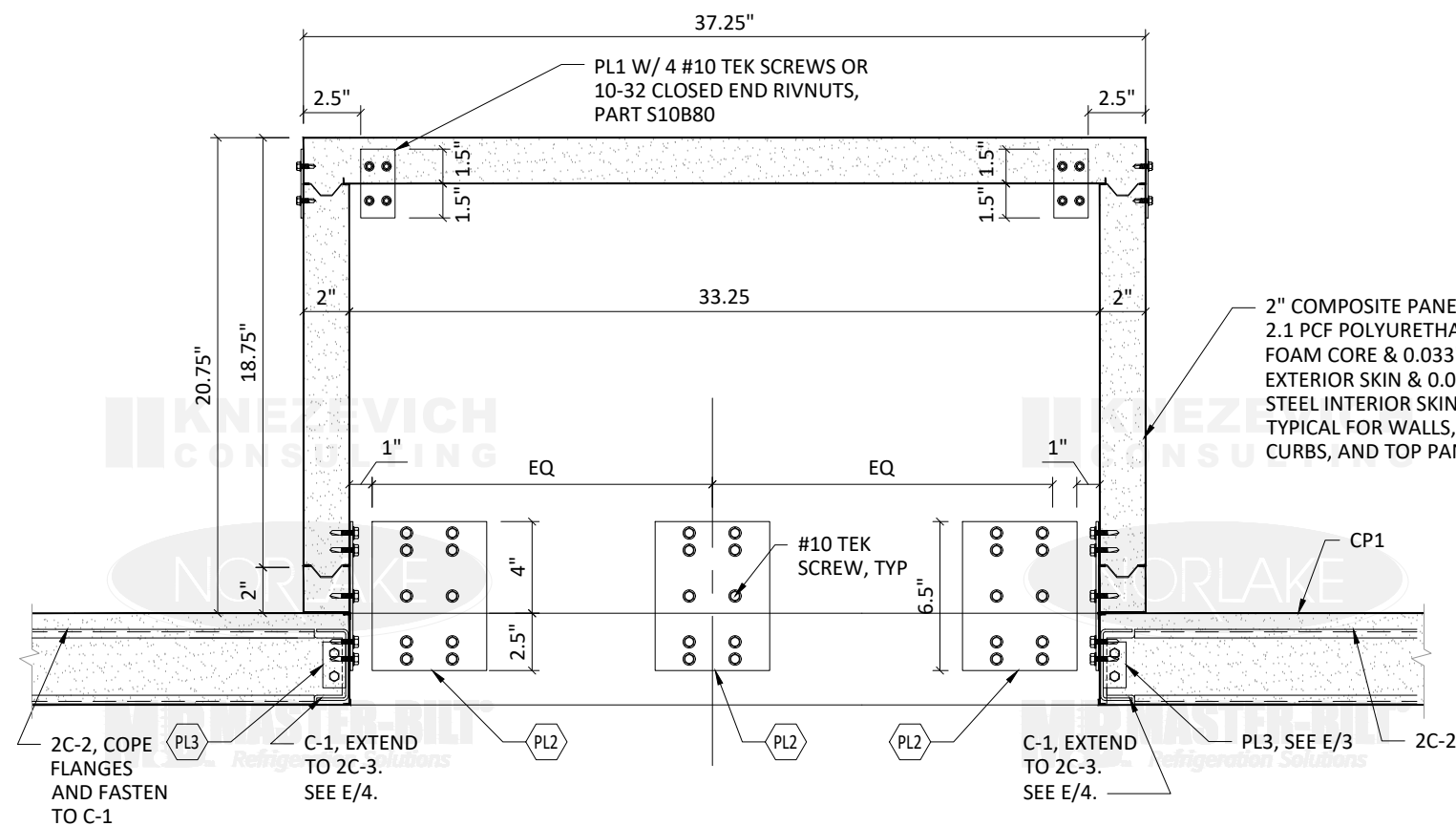
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Drawing No. **KC26-0710**
sheet 3 of 4



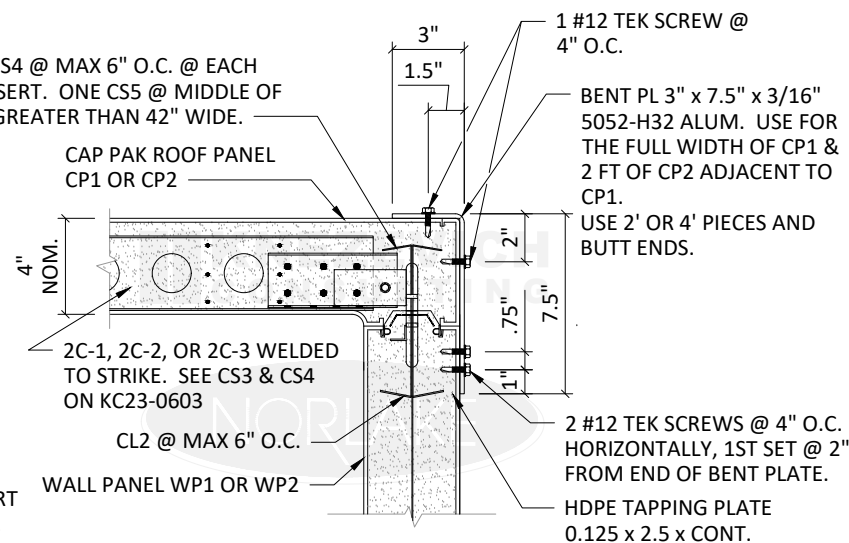
A CAP PAK EVAPORATOR & CONDENSER UNIT
1.5" = 1'-0"



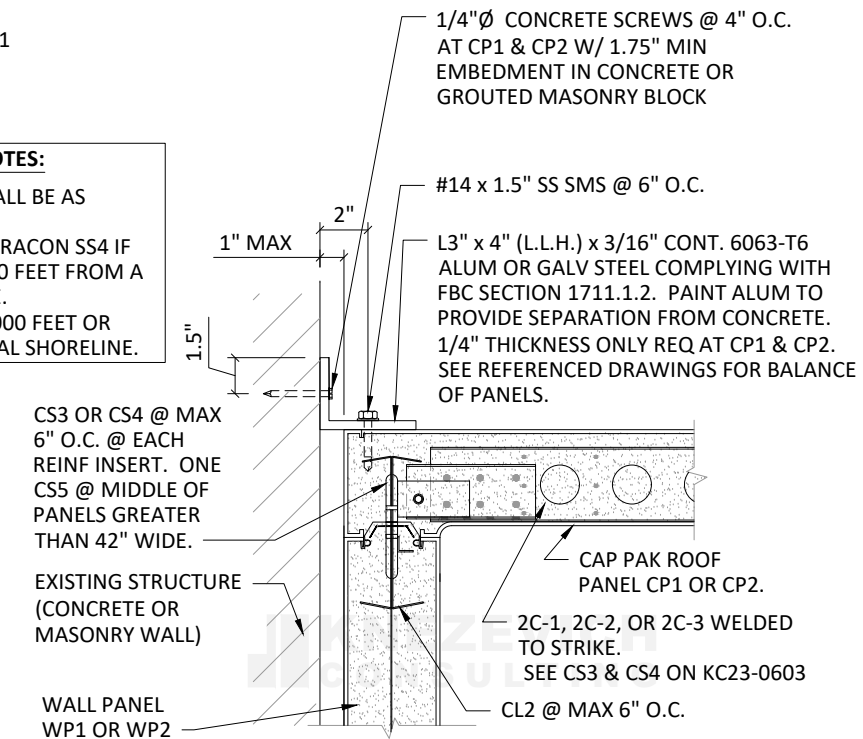
B PANEL PENETRATION AT EVAPORATOR
1.5" = 1'-0"

CONCRETE ANCHOR NOTES:
CONCRETE SCREWS SHALL BE AS FOLLOWS:
1. ITW TAPCON OR ULTRA CON SS4 IF GREATER THAN 3,000 FEET FROM A COASTAL SHORELINE.
2. ULTRA CON SS4 IF 3,000 FEET OR LESS FROM A COASTAL SHORELINE.

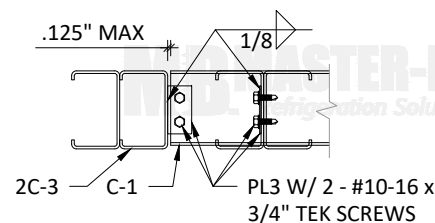
CS3 OR CS4 @ MAX 6" O.C. @ EACH REINF INSERT. ONE CS5 @ MIDDLE OF PANELS GREATER THAN 42" WIDE.



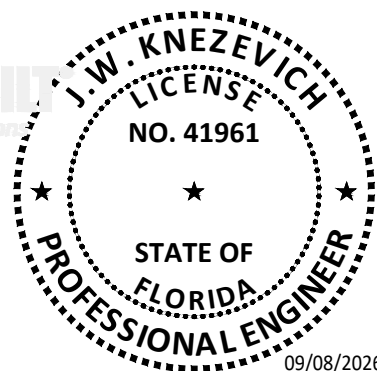
C CP1 & CP2 ROOF PANEL TO FRONT WALL
1.5" = 1'-0"



D CP1 & CP2 ROOF PANEL TO BACK WALL & EXISTING BUILDING
1.5" = 1'-0"



E CHANNEL TO CHANNEL
1.5" = 1'-0"



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