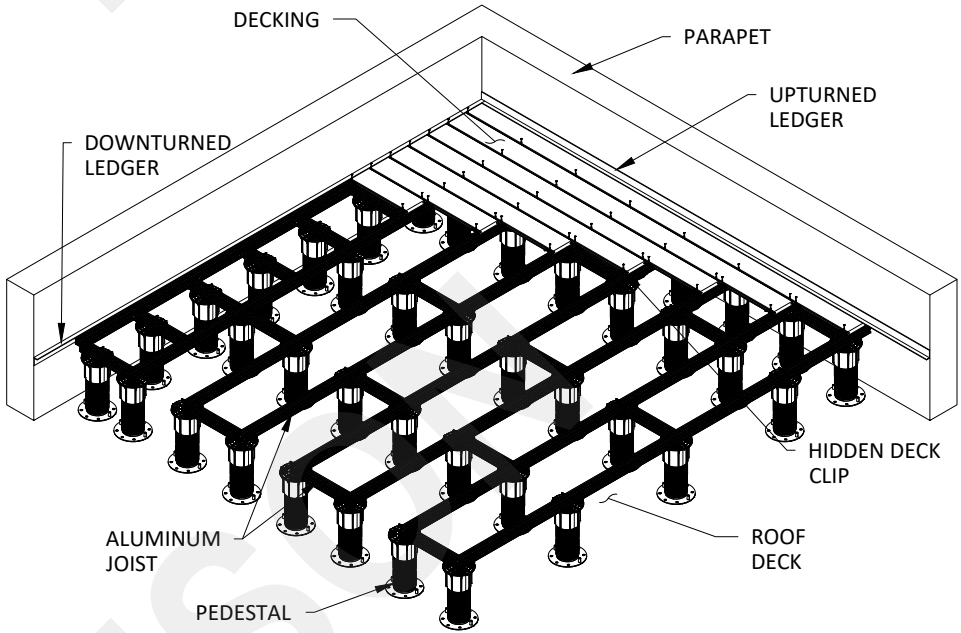


GENERAL NOTES:

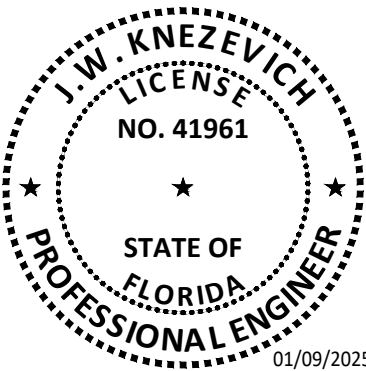
1. This Bison Aluminum Joist Wind System is an Independent Exterior Elevated Flooring System structurally designed and tested in accordance with the Florida Building Code, Building, 8th Edition (2023), non-HVHZ regions, (FBC) and the 2024 International Building Code (IBC).
2. This Product Evaluation Document (PED) is prepared by the Product Engineer and is generic. It does not include information prepared for a specific site.
3. The Bison Aluminum Joist Wind System is designed and tested to resist the following Design Loads used in Strength Design Load Combinations in accordance with Section 1605.2 of the FBC:
- A. System Dead Load 5 psf ± 2 psf
- B. Superimposed Dead Load
- Additional dead load features require additional pedestal supports or closer joist spacing and are outside the scope of these PEDs.
- C. Live Load 100 psf
- D. Positive Wind Load 60 psf
- E. Negative Wind Load - Reference General Note 4.
4. The Bison Aluminum Joist Wind System is designed to resist uplift in accordance with the referenced codes provided the building meets the limitations of ASCE 7-22 as defined in Figures 30.3-5A (footnote 5) and 30.4-1 and the application is within the limits defined in Tables 1, 2A, or 2B.
5. The Bison Aluminum Joist Wind System uplift capacity is determined based on FIU's NHERI Experimental Facility Project Number 2022-189e, Bison Project #6, Report 3: Bison Aluminum Joist System dated September 2022, Test Case 9a; and Design Guidelines for Roof Pavers Against Wind Uplift, ASCE/SEI Structures Congress, April 2015. This wind tunnel testing and research address the pressure equalization below the deck boards and provides data and design criteria that address uplift in compliance with FBC Section 104.11, FBC Section 3115.4.4, IBC Section 104.2.3 and ASCE 7-22 Sections 30.1.5, 30.12, & Ch. 31.
6. For non-conforming buildings or buildings utilizing wind tunnel testing to determine uplift loads, the Design Professional of Record shall evaluate the uplift resistance considering the site specific conditions of the project or consult with the project's wind consultant.
7. This Bison Aluminum Joist Wind System is suitable for use only with the direct involvement of the Design Professional of Record for a specific site, a Licensed Professional Engineer or Registered Architect. The Design Professional of Record shall review this document to verify the following:
- A. The design criteria as indicated herein are applicable to the site-specific conditions.
- B. Where Table 1 is utilized to evaluate system uplift capacity, the associated Table 1 notes are applied appropriately.
- C. Where Table 2A or 2B are utilized to evaluate system uplift capacity, the associated Table 2 notes are applied appropriately.
- D. The roofing system has the capacity to support the Dead and Live loads and is compatible with the Independent Exterior Elevated Flooring System as shown herein.
8. Uplift capacity for the Bison Aluminum Joist Wind System may be evaluated utilizing Table 1 to determine the maximum height 'h' for a given Basic Wind Speed 'V' or utilizing Table 2A or 2B to determine the maximum allowable roof component design pressures.
9. The Bison Aluminum Joist Wind System is not intended to be part of a Ballasted Roofing System and does not shield the underlying roofing system from wind loads. The underlying roofing system shall be capable of resisting the full design wind loads as appropriate for a specific project.
10. This PED addresses the structural performance of the system. Architectural, MEP, and fire classification issues are the responsibility of the Design Professional of Record.
11. For IBC compliance, reference IBC Section 1511.9.1 for perimeter enclosure requirements and IBC Section 1511.9.2 for fire classification requirements.
12. This PED shall bear the original or digitally authenticated signature, date and seal of John W. Knezevich, PE.
13. This PED is invalid if altered by any means.
14. This PED is the installation instructions portion of a product evaluation and shall only be used with the corresponding Product Evaluation Report.
15. Contractor shall obtain approval of the A/E of Record prior to ordering materials and coordinate material order with the approved system. Contractor shall install the Bison Aluminum Joist Wind System in compliance with this PED.

BISON ALUMINUM JOIST WIND SYSTEM NOTES:

1. Decking shall be nominal 6/4 x 6 or 5/4 x 6 (1.25" or 1" x 5.5" dressed dimension) No. 2 grade or better lumber with a minimum Fb = 1,000 psi and shall be preservative-treated in accordance with FBC Section 2304.12 or lumber shall be a naturally durable lumber approved by the A/E of Record having a minimum Fb = 1,000 psi.
2. Solid decking shall be fastened with 304 or 316 stainless steel screws as detailed herein.
3. Solid and grooved decking systems may be natural wood, engineered wood, wood and plastic composite, or plastic lumber provided the A/E of Record verifies that:
- A. The decking is rated to safely support the specified live load and joist spacing.
- B. The combination of the decking and deck fastening system is rated for a minimum USD wind uplift load of 100 psf with a joist spacing of 16".
- (1) A USD uplift rating of 100 psf for the decking and deck fastening system is adequate to allow the deck system as a whole to perform to the uplift loads specified in Tables 2A and 2B as the effective load on the decking is reduced due to the air permeability of the system.
- C. The deck fastening system is compatible with the aluminum joist support system including:
- (1) Screws are oriented vertically.
- (2) Screw length is sufficient to fully penetrate a minimum of one aluminum joist wall thickness.
- (3) Screws are 304 or 316 stainless steel or coated to prevent corrosion and/or hydrogen-assisted stress corrosion cracking.
4. 410 stainless steel screws are not acceptable for fastening to aluminum joists.
5. Engineered wood products shall be rated in accordance with ASTM D5456.
6. Wood and plastic composites or plastic lumber shall be rated in accordance with ASTM D7032.
7. Decking shall be placed perpendicular to aluminum joists with aluminum joists at a 16" on center maximum spacing.
8. Decking shall be laid out such that there is a minimum of two spans for all boards.
9. All decking shall be continuously supported at the perimeter of the installation and all discontinuous interior edges with the ledger support details shown herein.
10. A solid parapet or curb with a minimum height of 12 inches above the finished decking is required at the perimeter of deck installations. A flush curb is acceptable at entrances to enclosed spaces and interior deck finish transitions.
11. Decking shall be installed with a 3/16" gap between boards and a 3/16" gap between edges and perimeter constraint. Spacers shall be used to control the gap.
12. Decking shall be installed with a cavity height between the bottom of boards and the top of the underlying roof surface of no less than 1.5" and no more than 18".
13. Pedestal support system shall be either the Screwjack, Versadjust, or Level.It pedestal assemblies shown herein with a minimum weight of 0.4 psf.
14. Joists shall be supported on pedestals placed as follows:
- A. A maximum spacing of 32" along the length of the joist provided the joist spans a minimum of two 32" spans.
- B. A maximum spacing of 30" along the length of the joist when the joist spans only 1 span, with or without a cantilever edge.
- C. Additional pedestals may be required to support atypical conditions. Reference Bison installation instructions.
15. Splice joists with a butt splice at center of pedestal when needed providing a 1/16" gap between joist ends.
16. Pedestals shall be fabricated from Bison's B-PP-2025 polypropylene copolymer with a minimum tensile strength at yield in accordance with ASTM D638 of 3,200 psi loaded at 0.2"/min and a minimum flexural modulus in accordance with ASTM D790 of 275 ksi. B-PP-2025 subjected to 4,500 hours of accelerated weathering in accordance with ASTM G155 shall exhibit less than a 10% change in yield strength.
17. Fire response characteristics are not part of this PED. The A/E of Record shall verify the decking complies with the requirements of the Authority Having Jurisdiction.
18. Installation of the system shall comply with Bison's installation instructions and this PED.



A1 BISON ALUMINUM JOIST WIND SYSTEM ISOMETRIC
NTS



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Bison Aluminum Joist Wind System

Bison Innovative Products

BISON

Client / Manufacturer:
701 Osage Street
Bldg 2 #120
Denver, CO 80204
T: 800-333-4234

Revisions		Description
No.	Date	By
0	01/09/2025	JWK
JWK IBC 2024 Update, formerly KC25-0829		

Scale: AS NOTED

Drawn by: JWK

Date: 01/09/2025

J.W. Knezevich
Professional Engineer
FL License No. PE 41961

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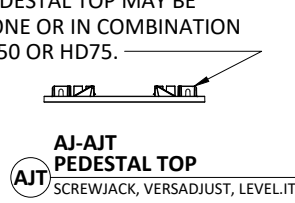
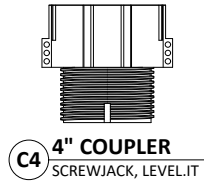
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Drawing No. **KC25-0119**

sheet 1 of 8

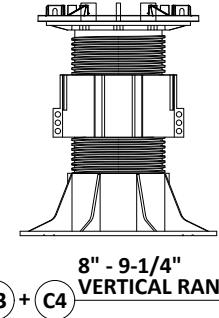
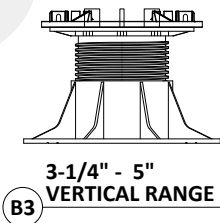
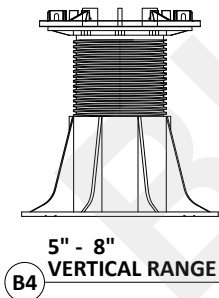
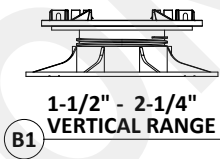
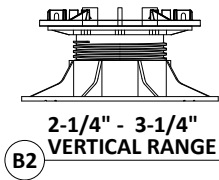
ACCEPTABLE PEDESTAL MODELS & COMPONENTS



AJ-AJT PEDESTAL TOP MAY BE USED ALONE OR IN COMBINATION WITH HD50 OR HD75.

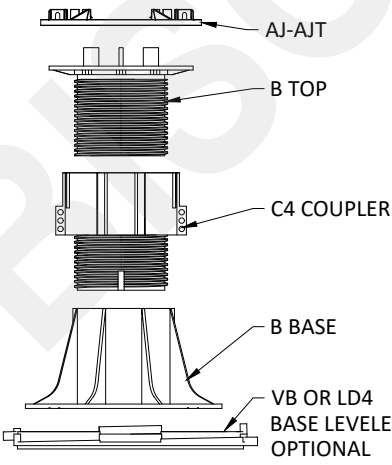
INTERCHANGABLE PEDESTAL COMPONENTS

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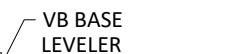
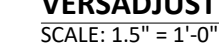
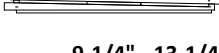
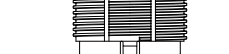
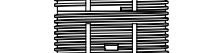
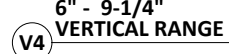
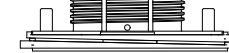
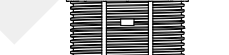
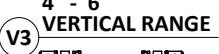
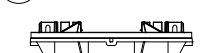
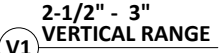
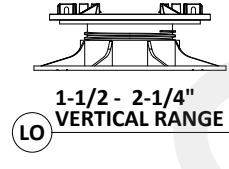
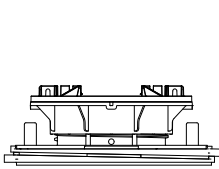


SCREWJACK PEDESTAL COMPONENTS

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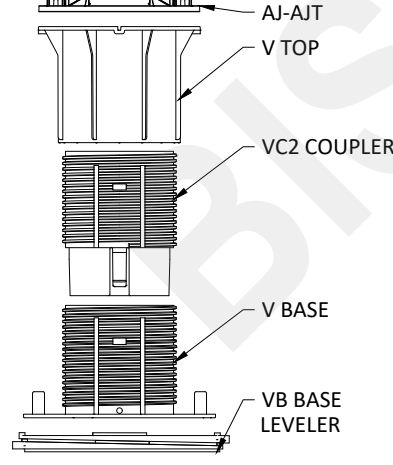


1 SCREWJACK PEDESTAL ASSEMBLY
SCALE: 1.5" = 1'-0"



VERSADJUST PEDESTAL COMPONENTS

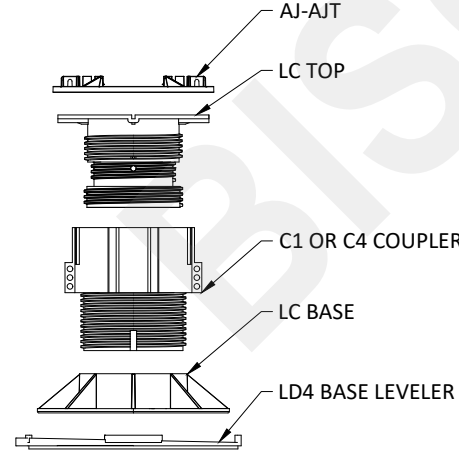
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LEVEL.IT PEDESTAL COMPONENTS

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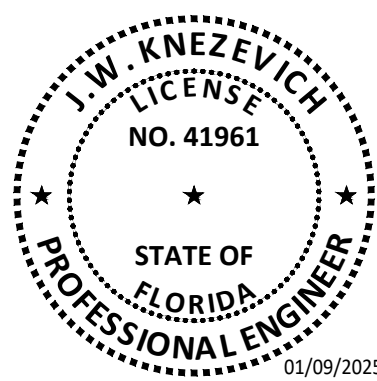
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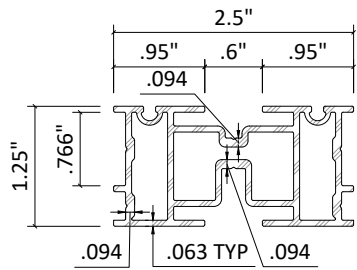
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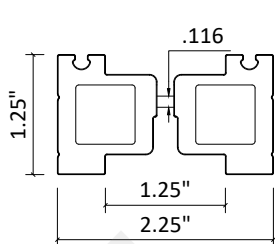
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No.	Date	By	Description
0	01/09/2025	JWK	IBC 2024 Update, formerly KC25-0829

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Date: 01/09/2025
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Drawing No. **KC25-0119**
sheet 2 of 8

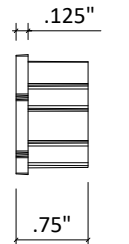




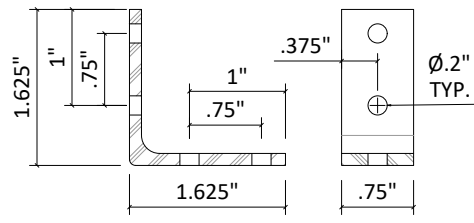
P1 AJ-125 ALUMINUM JOIST
SCALE: 6" = 1'-0" 6063-T6 ALUM



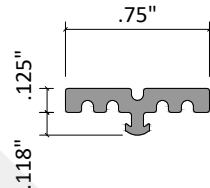
P2 AJ-JP END CAP
SCALE: 6" = 1'-0" B-PP-2025



SIDE VIEW



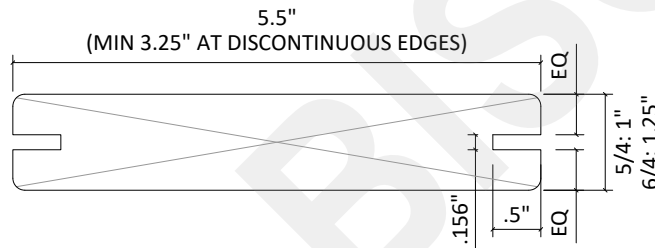
P3 AJ-AB ANGLE BRACE
SCALE: 6" = 1'-0" 6063-T6 ALUM



P4 AJ-RS BEARING PAD (OPTIONAL)
SCALE: 1'-0"=1'-0" 40-55 SHORE A RUBBER



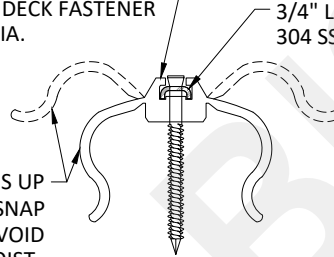
D1 6/4 or 5/4 x 6 SOLID DECKING
SCALE: 6" = 1'-0" NATURAL WOOD



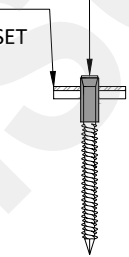
D2 6/4 or 5/4 x 6 GROOVED DECKING
SCALE: 6" = 1'-0" NATURAL WOOD

HIDDEN DECK FASTENER; CAMO EDGE CLIPS SHOWN. SEE SYSTEM NOTES, NOTE 3 FOR HIDDEN DECK FASTENER ACCEPTANCE CRITERIA.

BEND LEGS UP AND/OR SNAP OFF TO AVOID TOP OF JOIST

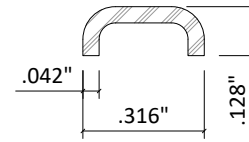


FRONT VIEW



SIDE VIEW

#8-15 FINISH TRIM HEAD 300 SERIES STAINLESS STEEL SCREW. COORDINATE SCREW LENGTH WITH DECKING AND DECK FASTENING SYSTEM TO ASSURE SCREWS FULLY PENETRATE A MINIMUM OF ONE ALUMINUM WALL THICKNESS.



GUSSET DETAIL
SCALE: 2:1

C1 HIDDEN DECK FASTENER
SCALE: 6" = 1'-0"

Revisions		Description	
No.	Date	By	Description
0	01/09/2025	JWK	IBC 2024 Update, formerly KC25-0829

Scale: AS NOTED

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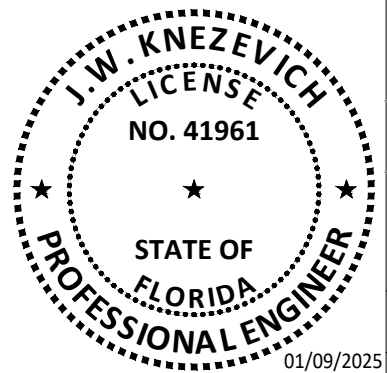
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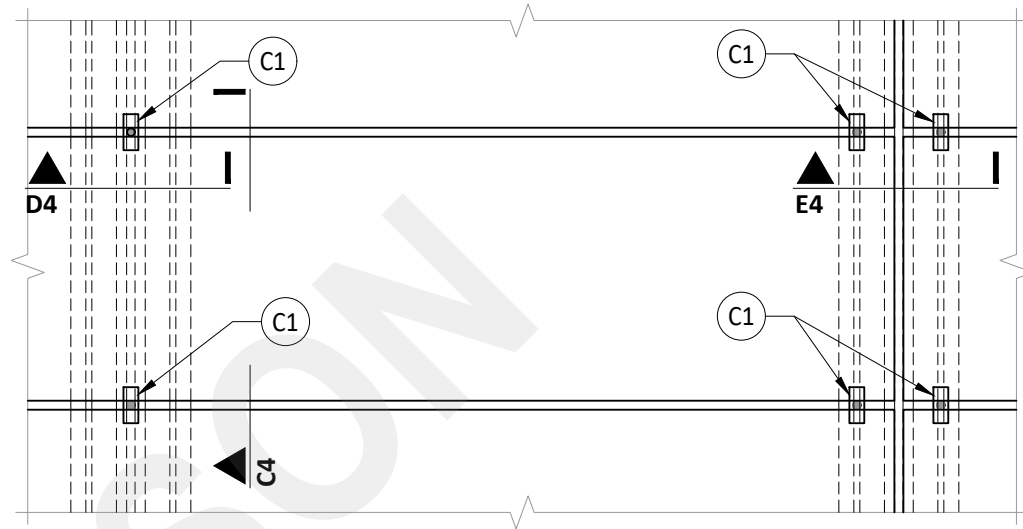
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sheet 3 of 8



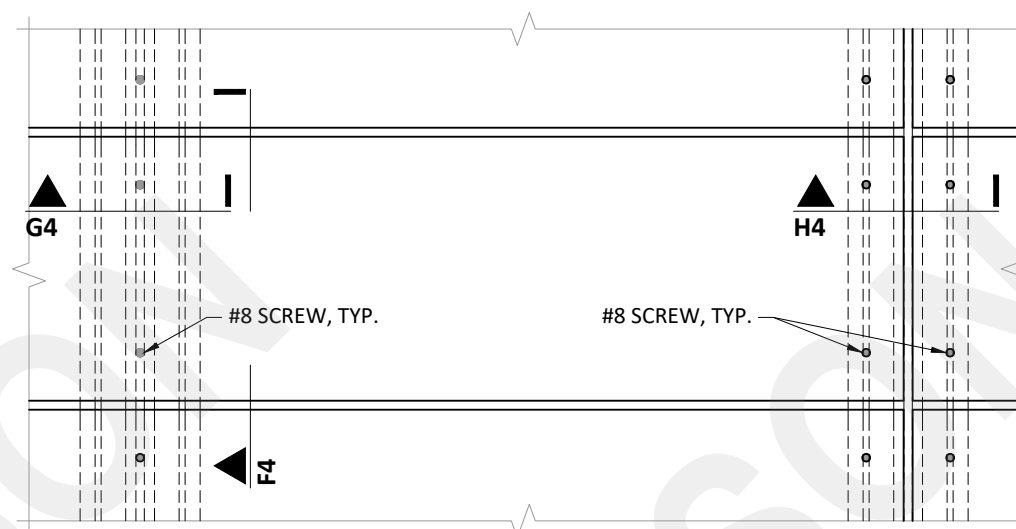
01/09/2025



INTERMEDIATE
SUPPORT

BUTT END
SUPPORT

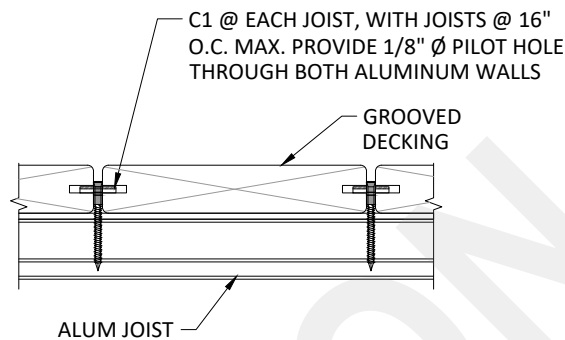
A4 **GROOVED DECKING PROFILE
FASTENING LAYOUT**
SCALE: 3" = 1'-0" PLAN VIEW



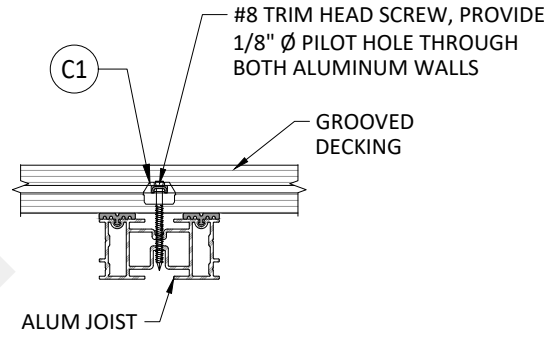
INTERMEDIATE
SUPPORT

BUTT END
SUPPORT

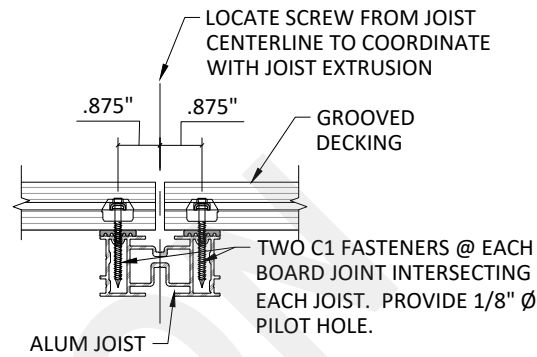
B4 **SOLID DECKING PROFILE
FASTENING LAYOUT**
SCALE: 3" = 1'-0" PLAN VIEW



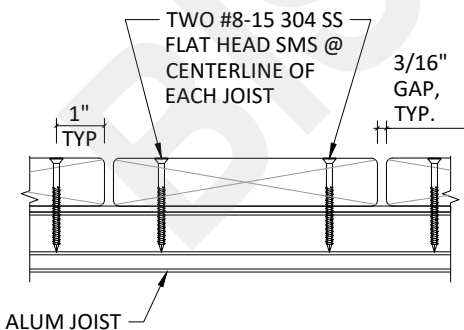
C4 **GROOVED DECKING TO JOIST
@ INTERMEDIATE SUPPORTS**
SCALE: 3" = 1'-0"



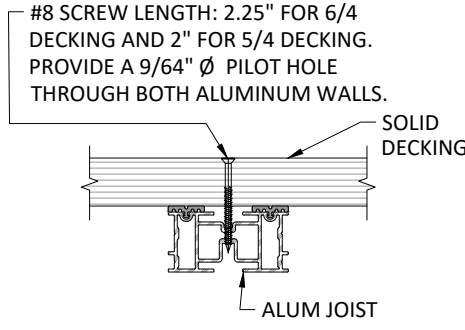
D4 **GROOVED DECKING TO JOIST
@ INTERMEDIATE SUPPORTS**
SCALE: 3" = 1'-0"



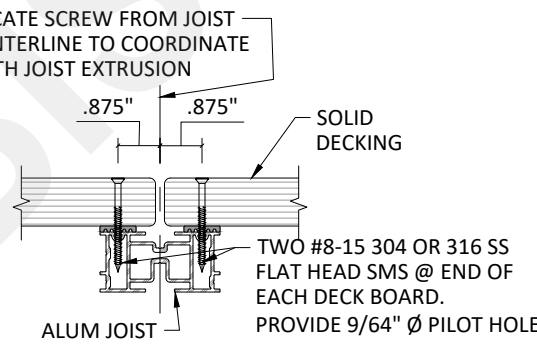
E4 **GROOVED DECKING TO JOIST
@ BUTT ENDS**
SCALE: 3" = 1'-0"



F4 **SOLID DECKING TO JOIST
@ INTERMEDIATE SUPPORTS**
SCALE: 3" = 1'-0"



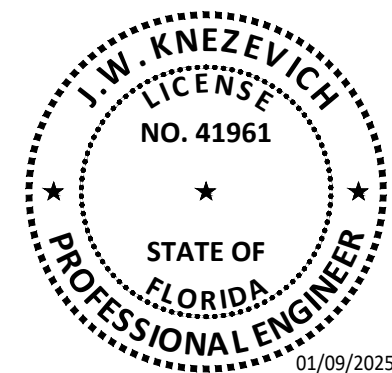
G4 **SOLID DECKING TO JOIST
@ INTERMEDIATE SUPPORTS**
SCALE: 3" = 1'-0"



H4 **SOLID DECKING TO JOIST
@ BUTT ENDS**
SCALE: 3" = 1'-0"

DECKING LAYOUT NOTES:

- Decking shall be installed perpendicular to joists with joists at a maximum 16" spacing.
- Decking shall be laid out with a minimum spacing between boards of 3/16". Natural wood that may expand with moisture exposure shall provide larger joints such that a 3/16" minimum joint width is maintained in service conditions.
- Manufactured decking shall be rated for a 100 psf Live Load.
- Decking shall be laid out to avoid single span conditions unless the deck board rating specifically allow single span conditions.
- Decking that terminate into the perimeter shall be multi-span boards supported by a minimum of 3 joists.
- Screws fastening decking to joists shall have sufficient length to have full thread engagement in at least one joist wall element. Coordinate screw size with deck board thickness.
- For fastening decking to joists, do not use self-drilling screws. Provide 1/8" $\emptyset$ pilot holes for #8 finish trim head screws. Provide 9/64" $\emptyset$ pilot holes for #8 flat head SMS.
- To avoid damaging roofing, do not drill pilot holes through lower flange of joists.
- Seal ends of deck boards with an approved end sealer.



Revisions	No.	Date	By	Description
	0	01/09/2025	JWK	IBC 2024 Update, formerly KC25-0829

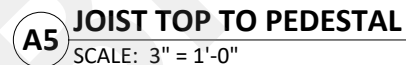
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Drawn by: JWK
Date: 01/09/2025

J.W. Knezevich
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Drawing No.
KC25-0119
sheet 4 of 8



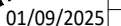
1. Connect each end of discontinuous bracing joists to pedestal top with a minimum of one #8 screw. Fasten one end of joist with one screw at one side of joist and fasten other end with the screw on the other side of the joist.
2. Connect continuous joists to pedestal top with a minimum of two #8 screws, one each side of pedestal (180° apart).
3. Where joists are spliced, connect each butt end of joist to the pedestal with 2 #8 screws.
4. Screws shall be #8-15 x 1/2" 304 or 316 stainless steel self-drilling screws with hex washer head & #2 self-drilling point.

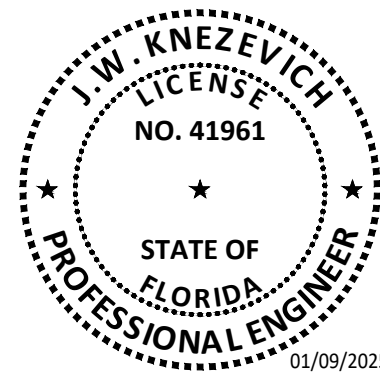
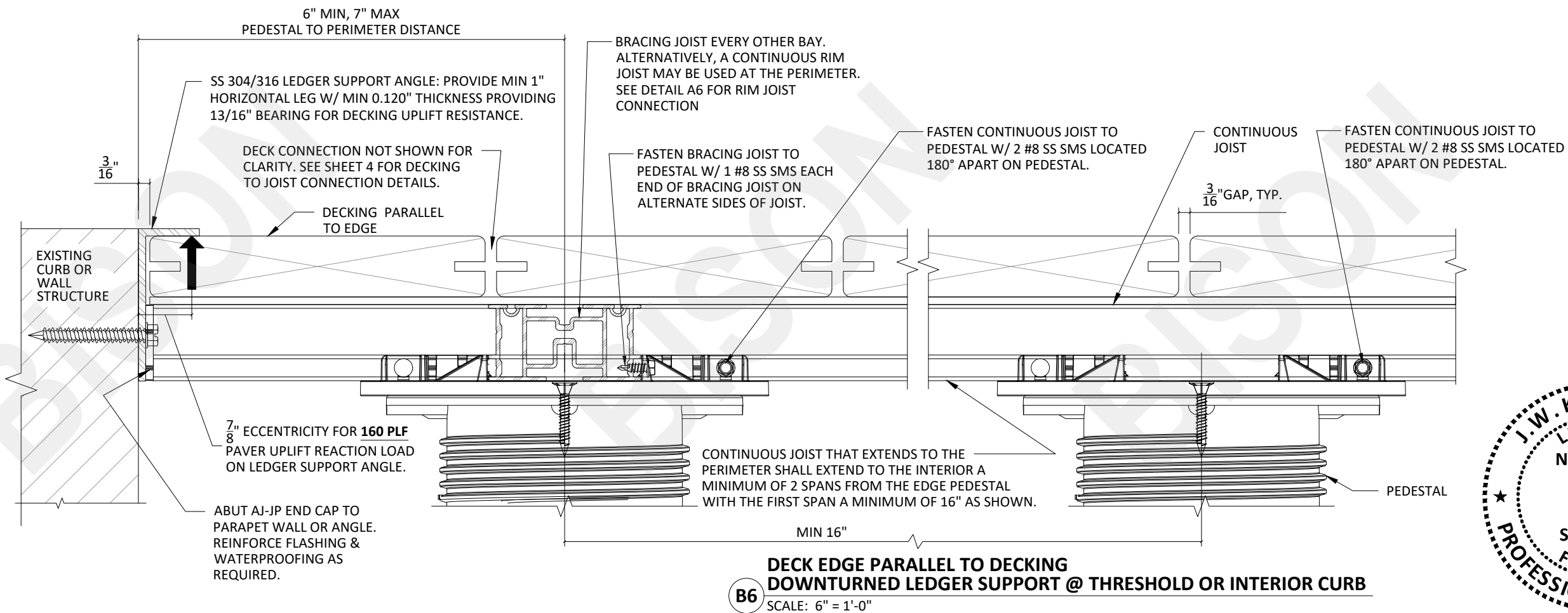
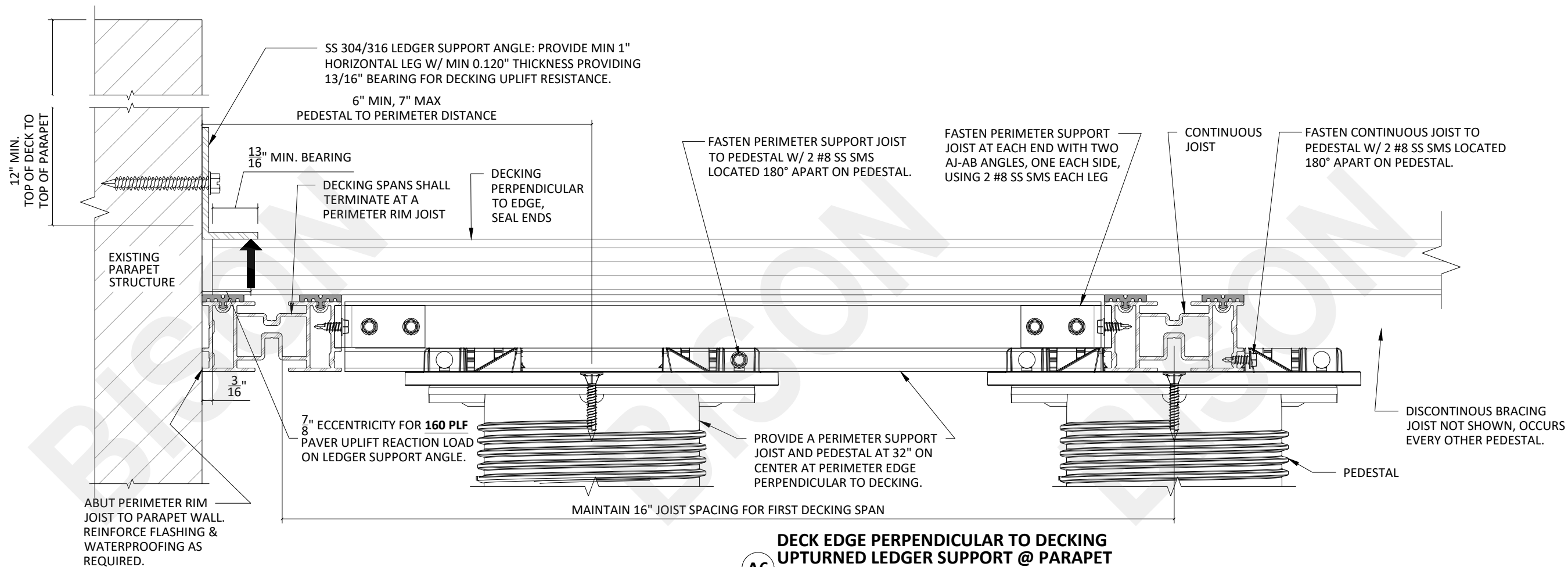
1. Continuous joists shall be spaced at a maximum 16" on center.
2. Single-span joists are joists that are butt spliced at adjacent pedestals spanning over 2 pedestals. Pedestals supporting single span joists shall be a maximum of 30" on center.
3. Multi-span joists are joists that span over 3 or more pedestals (2 or more spans). Pedestals supporting multi-span joists shall be a maximum of 32" on center.
4. Continuous joists that terminate at the perimeter or any discontinuous edge shall not be single-span joists. Continuous joists that terminate at an edge shall be multi-span joists.
5. Provide bracing joists perpendicular to joist span at every other pedestal. Offset 1 pedestal space from adjacent bay such that each pedestal has a bracing joist.
6. Single-span bracing joists shall be placed at each pedestal bay at the perimeter and interior edges.
7. Joists that terminate at the perimeter or any discontinuous edge shall be capped with AJ-JP End Cap to provide protective contact with water barrier.



1. Decking shall be supported at all discontinuous edges with a ledger as shown in Detail A6, B6, or A8.
2. Ledger support element may be upturned or downturned at all locations.
3. Connections to parapets are outside the scope of these Product Evaluation Documents as parapet conditions vary considerably. Design Professional of Record shall design the connections to parapet and verify the parapet is designed to resist a superimposed load as designated on the ledger support details with consideration for the moment induced by the eccentricity of the superimposed load.
4. Ledger anchorage shall be designed by the Design Professional of Record to support the USD superimposed load shown accounting for tension to resist rotation due to the eccentricity shown.
5. For ledgers supporting gravity loads at angled and curved edges as shown in Detail A8, the Design Professional of Record shall design the ledger and anchorage based on the loads specified in the General Notes on Sheet 1.
6. Alternative support details are acceptable provided the minimum engagement of the paver in bearing is provided.

7. Uplift on the top surface of the parapet is in addition to the applied uplift load.
8. Loads are USD factored loads.
9. Fasten angle directly to structure, not through finishes except for maximum 1/8" thick flashing materials. Where fasteners penetrate waterproofing, architect shall provide for waterproofing of penetrations.
10. Splice ledger support as needed. Butt ends at splice and provide minimum 2 fasteners per piece. Provide first and last fastener a maximum of 3" horizontally from end of angle.
11. A minimum 12" high parapet is required at the perimeter of paver area unless the perimeter is more than 15 feet from a building edge.
12. Threshold conditions are acceptable at interior discontinuous edges provided the discontinuous edge is more than 15 feet from a building edge.
13. Threshold conditions at doors are acceptable at all interior areas.





Revisions		Description	
No.	Date	By	Description
0	01/09/2025	JWK	IBC 2024 Update, formerly KC25-0829

Scale: AS NOTED

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Drawing No. **KC25-0119**
sheet 6 of 8

01/09/2025

Bison Aluminum Joist Wind System

Table 1: ASCE 7-22

Max Height vs Wind Speed			
Basic Wind Speed 'V' (mph)	Maximum Height 'h' (feet)		
	Exp B	Exp C	Exp D
≤ 95	500	500	500
≤ 100	500	500	461
≤ 105	500	449	263
≤ 110	500	284	154
≤ 115	451	184	92
≤ 120	327	121	56
≤ 130	179	55	22
≤ 140	103	26	N.A.
≤ 150	61	N.A.	N.A.
≤ 160	37	N.A.	N.A.
≤ 170	24	N.A.	N.A.
≤ 180	15	N.A.	N.A.
> 180	N.A.	N.A.	N.A.

TABLE 1 NOTES:

- The 'V' and 'h' limits provided in Table 1 are based upon the following:
 - Basic Wind Speed 'V' is determined based on Risk Category and local requirements.
 - Exposure Category "B", "C", or "D" is determined based on location and local requirements.
 - Roof deck surfaces are consistent with monoslope roofs ≤ 3 degrees.
 - Building is an enclosed building with GCpi = 0.18. The system is not rated for open, partially enclosed, or partially open buildings.
 - Site conditions, and shape and location of host building are representative of a Topographic Factor, Kzt = 1.0, a Ground Elevation Factor, Ke ≤ 1.0, and a Directionality Factor Kd = 0.85.
- For N.A. values, the paver system is not adequate at any height 'h' for the noted Exposure and Wind Speed 'V'.
- Values of 'h' or 'V' beyond those shown in Table 1 are outside the scope of these documents.

Table 2A: ASCE 7-22; Mean Roof Height ≤ 60 feet

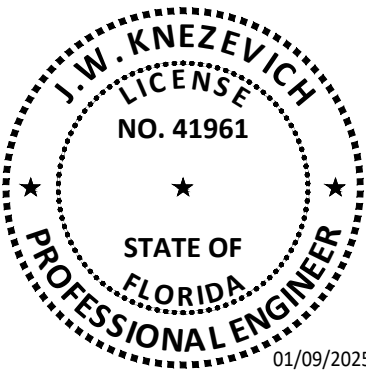
Allowable Uplift Wind Pressures				
USD / ASD	Zone 1'	Zone 1	Zone 2	Zone 3
USD	-44.1 psf	-76.8 psf	-101.3 psf	-138.1 psf
ASD	-26.5 psf	-46.1 psf	-60.8 psf	-82.9 psf

Table 2B: ASCE 7-22; Mean Roof Height > 60 feet

Allowable Uplift Wind Pressures				
USD / ASD	Zone 1'	Zone 1	Zone 2	Zone 3
USD	N.A.	-64.6 psf	-101.3 psf	-138.1 psf
ASD	N.A.	-38.7 psf	-60.8 psf	-82.9 psf

TABLE 2A & 2B NOTES:

- As an alternative to the Velocity vs Height values in Table 1, allowable uplift pressure for roof zones 1', 1, 2, & 3 as shown in Tables 2A & 2B may be utilized provided the building and component wind load calculations comply with the criteria below. For clarity, both USD and ASD allowable uplift pressures are provided.
 - Basic Wind Speed is determined based on Risk Category and local requirements.
 - Exposure Category "B", "C", or "D" is determined based on location and local requirements.
 - Building is an enclosed building with GCpi = 0.18. The system is not rated for open, partially enclosed, or partially open buildings.
 - Topographic Factor, Kzt as required for local conditions.
 - Effective Wind Area = 10 square feet.
 - Directionality Factor, Kd = 0.85
 - Ground Elevation Factor, Ke as permitted for local conditions.
 - Parapet Height = 1 ft. Load ratings are not applicable for loads reduced due to parapet height.
 - Roof deck surfaces are consistent with monoslope roofs ≤ 3 degrees.
 - Mean Roof Height ≤ 60 feet with GCp from Figure 30.3-2A (see Figure 30.3-5A, footnote 5) and reference Table 2A for Allowable Uplift Wind Pressures.
 - Mean Roof Height > 60 feet with GCp from Figure 30.4-1 and reference Table 2B for Allowable Uplift Wind Pressures.
- The allowable uplift pressures noted herein shall be greater than a building's roof component design pressures.



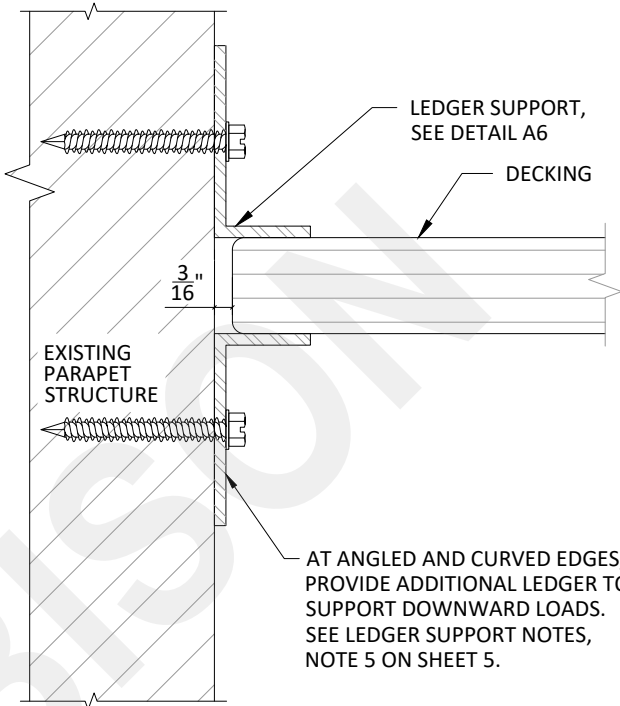
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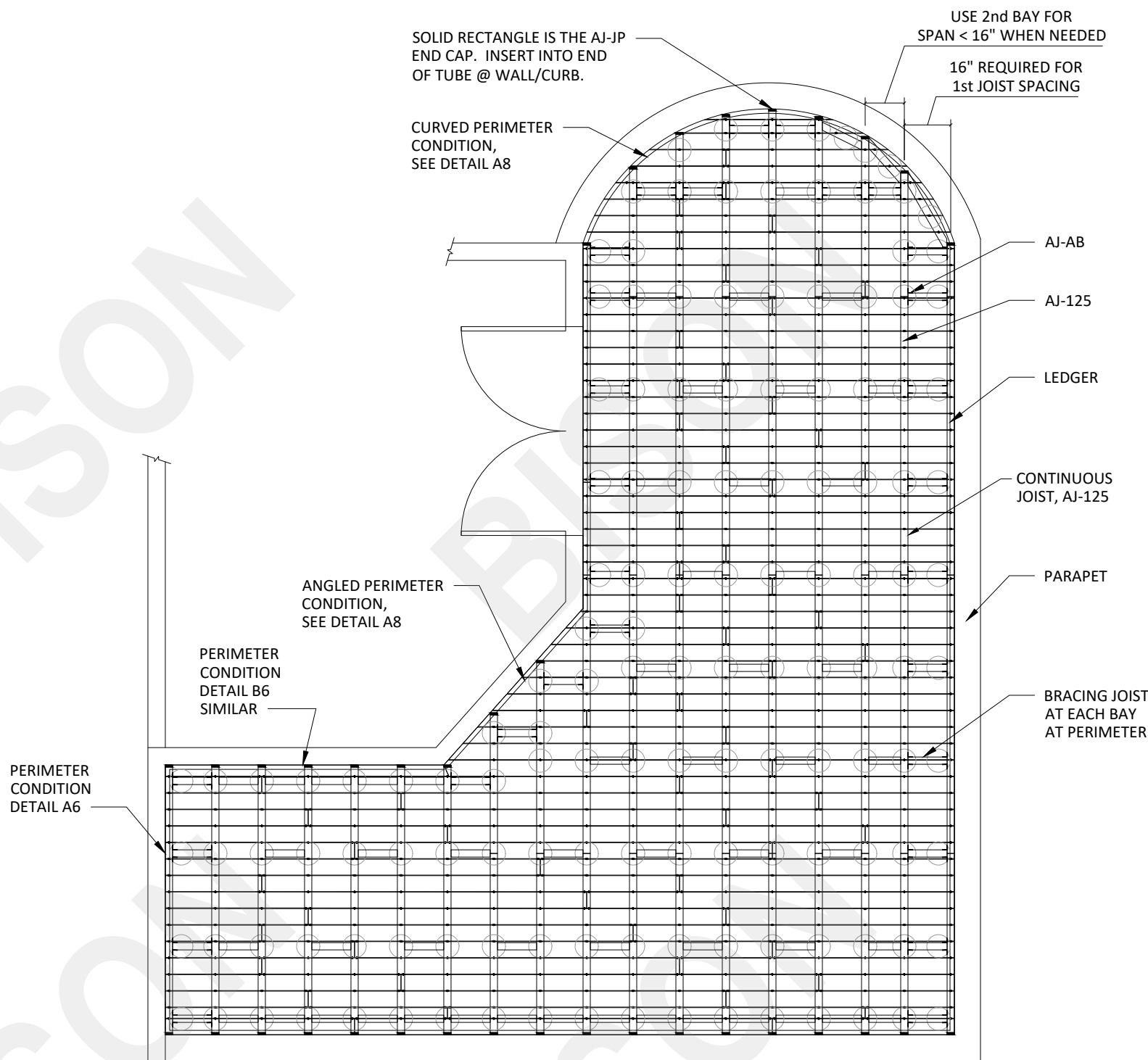
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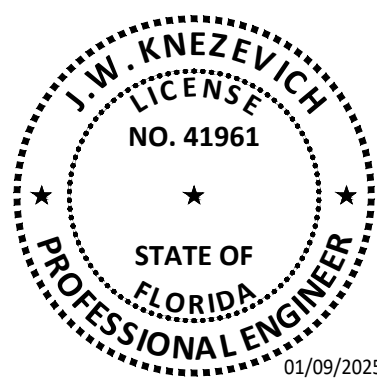
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A8 ANGLED AND CURVED PERIMETER / EDGE DETAIL
SCALE: 6" = 1'-0"



B8 BISON ALUMINUM JOIST WIND SYSTEM LAYOUT DIAGRAM
SCALE: 1/4" = 1'-0"



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