

GENERAL NOTES

1. **BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM** SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE. THIS ALUMINUM LOUVER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) AND OUT OF IT (N.H.V.H.Z).
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620 & 1609** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.
- IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS.
- A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.
- ALUMINUM LOUVER SYSTEM ADEQUACY FOR IMPACT, FATIGUE RESISTANCE & WATER INFILTRATION HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER QAI LABORATORIES, TESTING LAB REPORTS #QA-1162a,b,c, & QA-7185, AS PER TAS 100 (A), TAS-201, 9Lb 2"x4" 50ft/sec TAS-202, TAS-203, AS WELL AS PER AMCA IMPACT STANDARD 540.
2. ALL ALUMINUM SHEET METAL SHALL BE 5052-H32 ALLOY AS PER BILL OF MATERIALS ON SHEET 2.
3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT CARBON STEEL AS PER DIN 50018 AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4. & 1711 ALL RIVETS SHALL BE AS PER BILL OF MATERIALS ON SHEET 2.
4. ALL WELDING OF ALUMINUM FRAMING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.
5. ANCHORS TO EXISTING STRUCTURE SHALL BE AS FOLLOWS (SEE SHEET 7).
- (A). ANCHORS SHALL BE INSTALLED FOLLOWING ALL THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHORS MANUFACTURER. E.D. AND EMBEDMENT ARE BEYOND ANY WALL FINISH. SEE SHEET 7 FOR MAX. SPACING.

ANCHOR TYPE	MANUFACTURER	DIAMETER OR GAGE	MIN. EMBEDMENT				MIN. EDGE DISTANCE (E.D.)		
			TO CONCRETE (f'c=3,000 psi) MIN.	TO CONCRETE BLOCK ASTM (C-90 UNIT) f'c=1.5 ksi GROUTED	1/8" MIN. ALUM. (Fy=25ksi) or 12 GA. GALV. STEEL(Fy=33ksi)	TO WOOD (G ≥ 0.55)	CONCRETE OR CONCRETE BLOCK	STEEL	WOOD
401 SS TAPCON	ITW/BUILDEX	1/4"	1 3/4"	1 1/4"	N/A	1 1/2"	2 1/2"	N/A	1"
304 SS TEK-SCREWS	ITW/BUILDEX	1/4"-14	N/A	N/A	FULLY EMB. PLUS 3 THREADS BEYOND.	N/A	N/A	3/4"	N/A

6. ALUMINUM LOUVER SYSTEM SHALL ONLY BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, OR THE ROOM WILL NOT HOUSE WATER RESISTANT EQUIPMENT.
7. ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

8. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
9. (A). THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (B). CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (C). THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (D). SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- (E). ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

A.S.D. DESIGN PRESSURE RATING:
SEE SCHEDULES ON SHEET 7

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 • Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM

PARADISE AWNINGS CORPORATION
DBA PARADISE ARCHITECTURAL
PANELS & STEEL
4310 NW 36TH AVE
MIAMI FL 33142
PHONE:(305)997-5714
EMAIL: INFO@PARADELSANDSTEL.COM

W.H. DRAWN BY:

09/09/2026 DATE:

26-291 DRAWING No.

SHEET 1 OF 7

REV. NO

DESCRIPTION

DATE

REV. NO

DESCRIPTION

DATE

1

0 SPEC. OLD 24-122

9/9/2026

2

WALTER A. TILLIT JR.

LICENSE

No. 44167

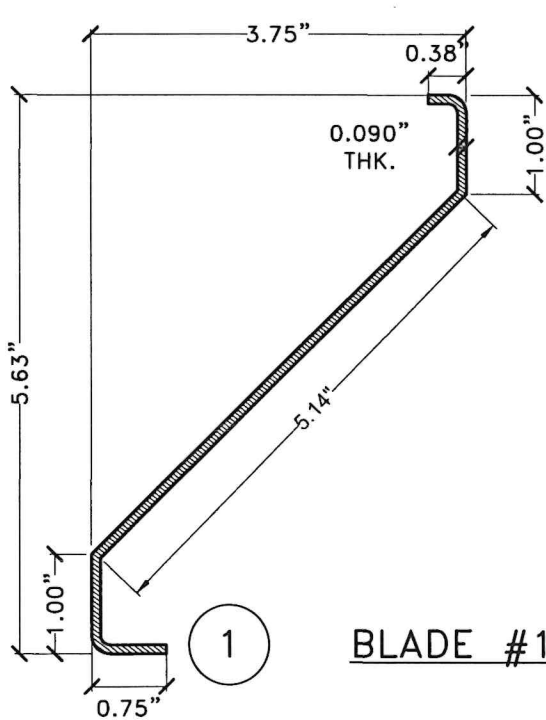
STATE OF FLORIDA

PROFESSIONAL ENGINEER

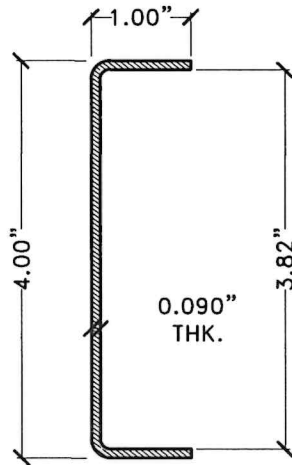
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BILL OF MATERIALS:

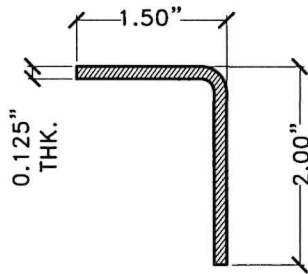
COMPONENT #	DESCRIPTION	DIMENSION	MATERIAL	MANUFACTURER	NOTES
①	BLADE #1	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	WELDED TO ② SEE SECTIONS.
②	CHANNEL JAMB	1"x4"x1"x0.090"THK.	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	USE W/ OR W/O ③ SEE SECTIONS.
③	MOUNTING ANGLE	1.5"x2"x0.125"THK.	5052-H32 ALUMINUM ALLOY	-	USE ONLY AS OPTION TO DIRECT MOUNT TRAPPED SPECIMENS.(SEE SHEETS 2,4,5,6,9)
④	BLADE BRACE ANGLE	0.5"x1.5"x1.5"x0.125"THK.	5052-H32 ALUMINUM ALLOY	-	SCREWED TO ⑧ W/ ⑥ SEE SECTIONS & ELEVATIONS FOR DETAILS.
⑦	POP RIVET	3/16"Ø	SERIES 9444 ALUMINUM (2024-T3 ALLOY) LARGE FLANGE THIN SHEET NUTSERT, PART #0820	AVDEL CHERRY TEXTORN, PARSIPPENY, NEW JERSEY 07054 OR EQUAL.	USE (1) EA ② TO ① FRONT & BACK. @ ENDS.
⑧	STIFFENER CONNECTOR	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	1 1/2" LONG. MAX SPACING=24"O.C
⑨	SILL	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	INCLUDES REAR PLATE
⑩	HEAD	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	W/ ⑦ TO JAMB ② @ ENDS
⑪	DRIP PAN	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	USE ONLY ON SPECIMEN #11



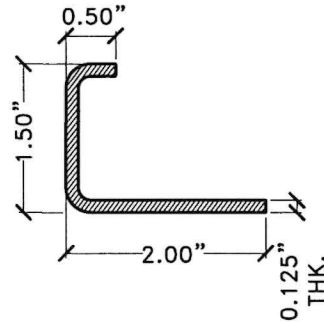
① BLADE #1



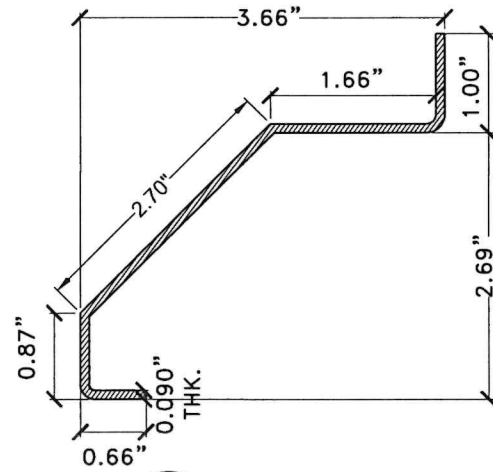
② CHANNEL JAMB



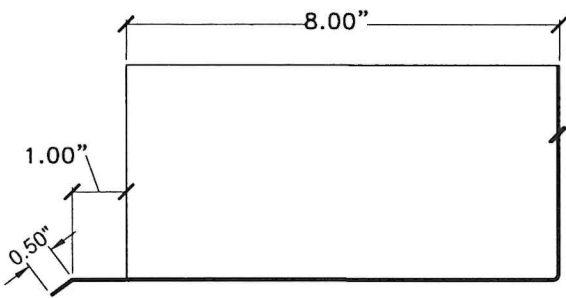
③ MOUNTING ANGLE



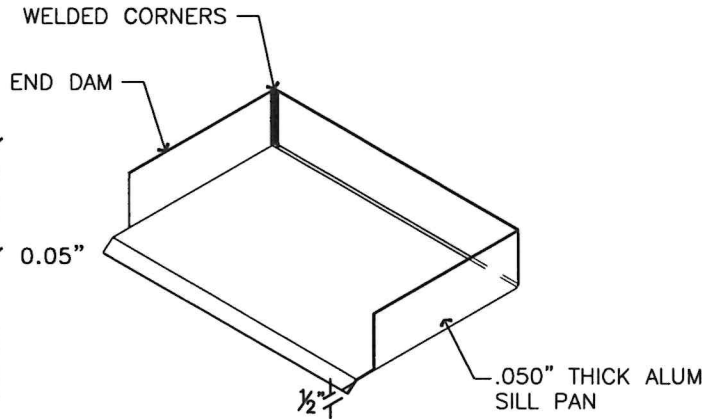
④ BLADE BRACE ANGLE



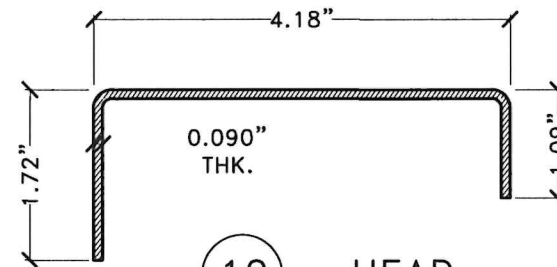
⑧ STIFFENER CONNECTOR
1 1/2" LONG.



⑪ DRIP PAN



⑨ SILL



⑩ HEAD

COMPONENTS
SCALE: N.T.S

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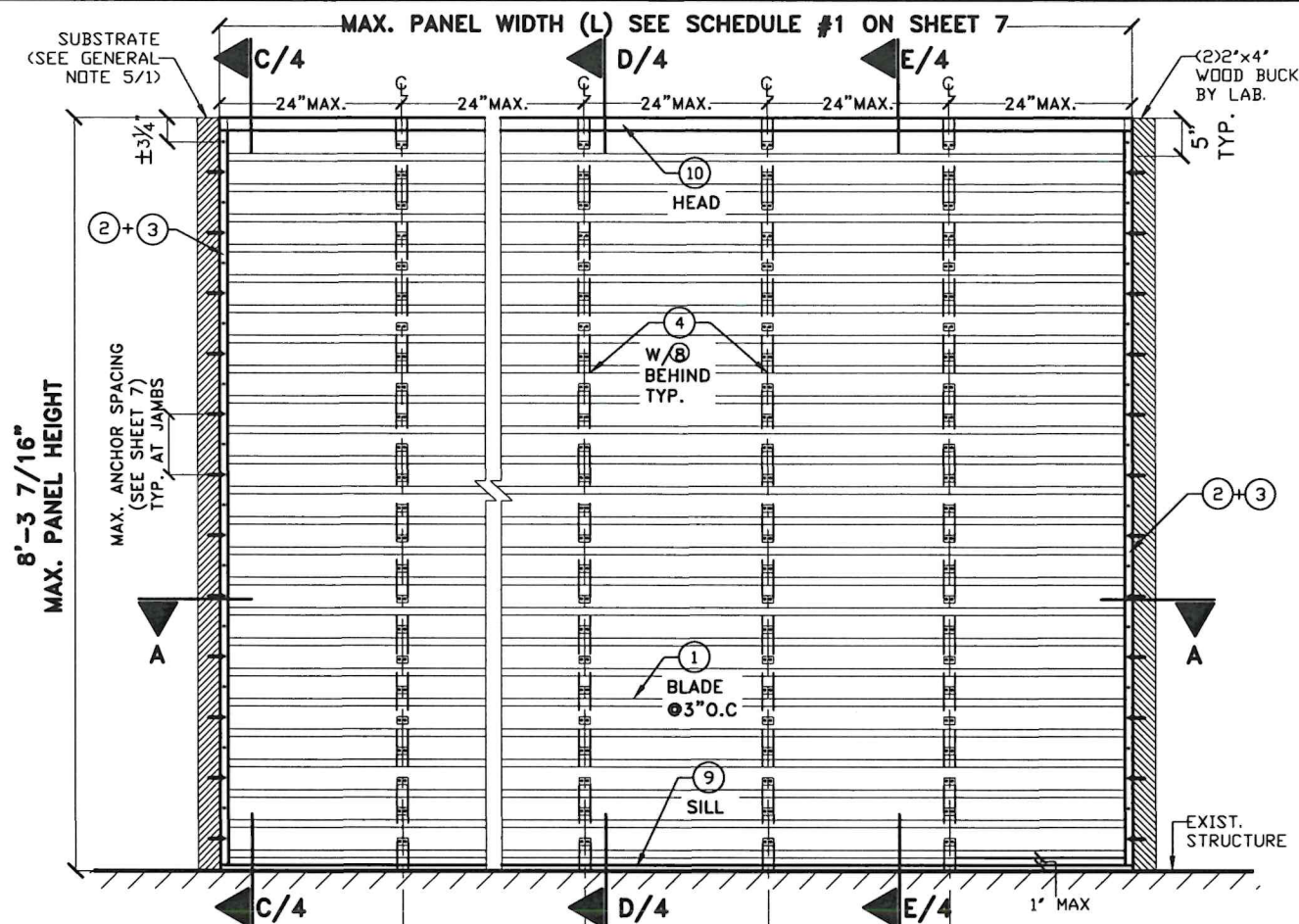
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W.H. DRAWN BY:
09/09/2026 DATE:
26-291 DRAWING No.
SHEET 2 of 7

PARADISE AWNINGS CORPORATION
DBA PARADISE ARCHITECTURAL
PANELS & STEEL

4310 NW 36TH AVE
MIAMI FL 33142
PHONE: (305)597-5714
EMAIL: INFO@PARANETSTEEL.COM

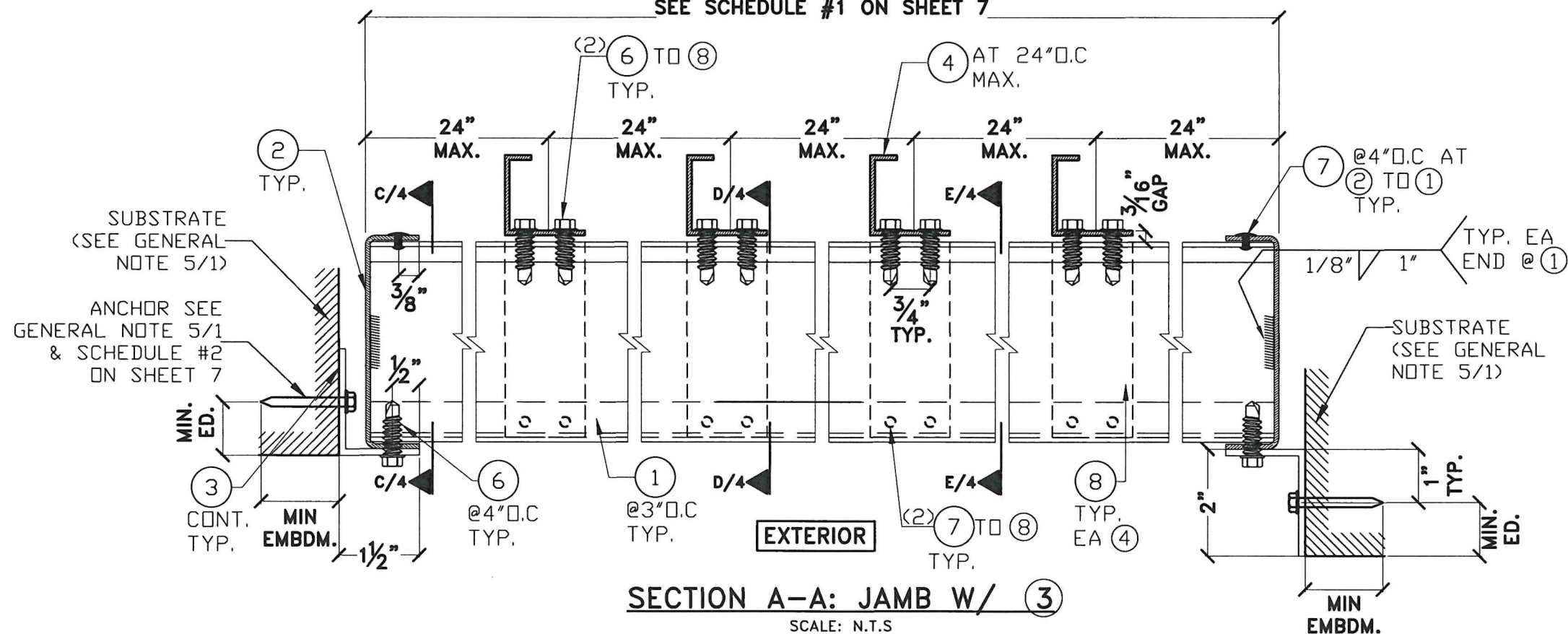
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1	0.090" OLD 24-122	9/9/2026			
2					



TYPICAL EXTERIOR ELEVATION

SCALE: N.T.S

MAX. PANEL WIDTH (L)
SEE SCHEDULE #1 ON SHEET 7

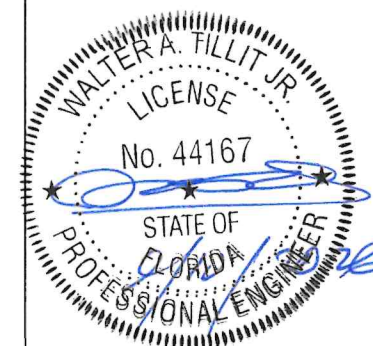


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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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CA-0006719
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FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE

BLADE 1 HORIZONTAL ALUMINUM
LOUVER SYSTEM

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EMAIL: INFO@PANELSANDSTEEL.COM

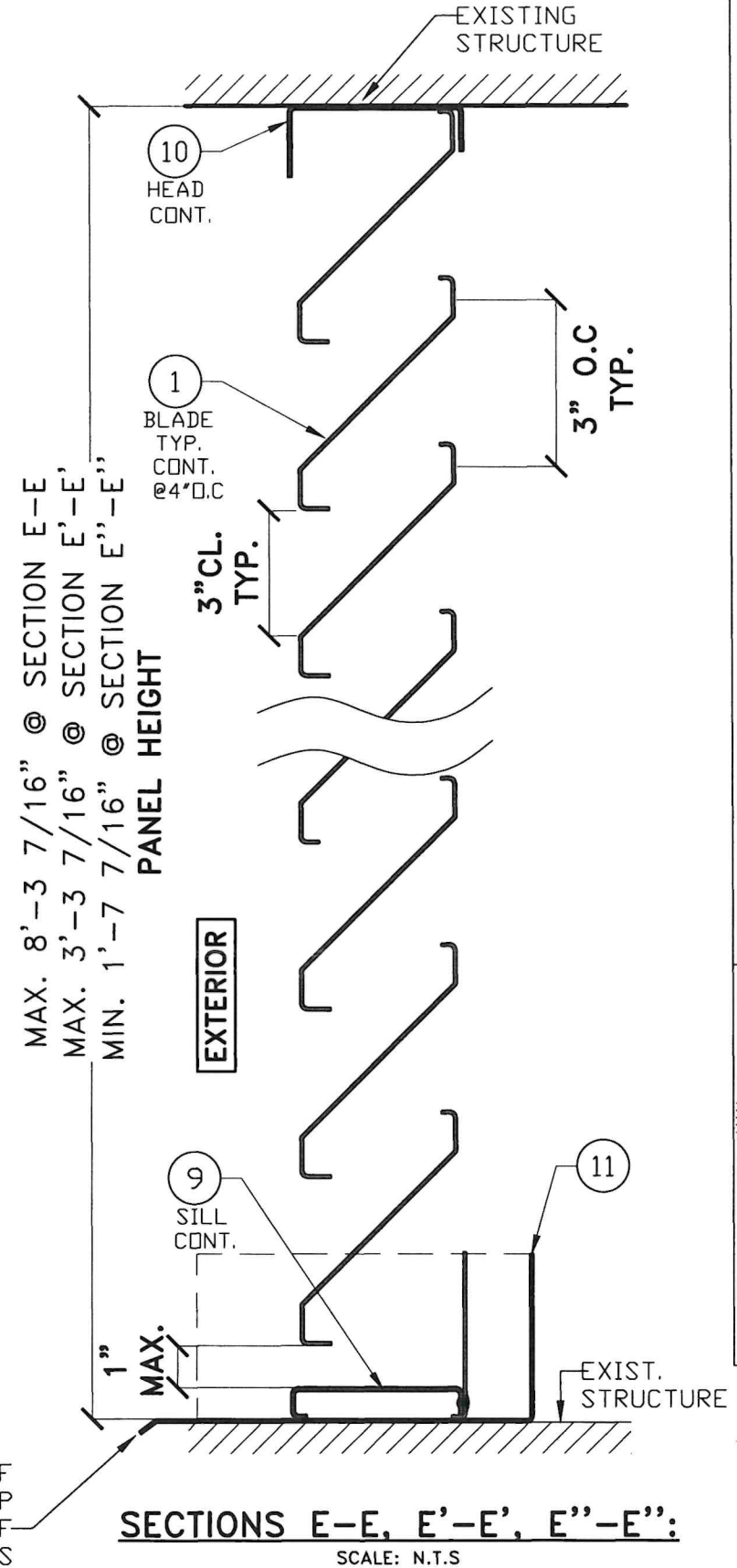
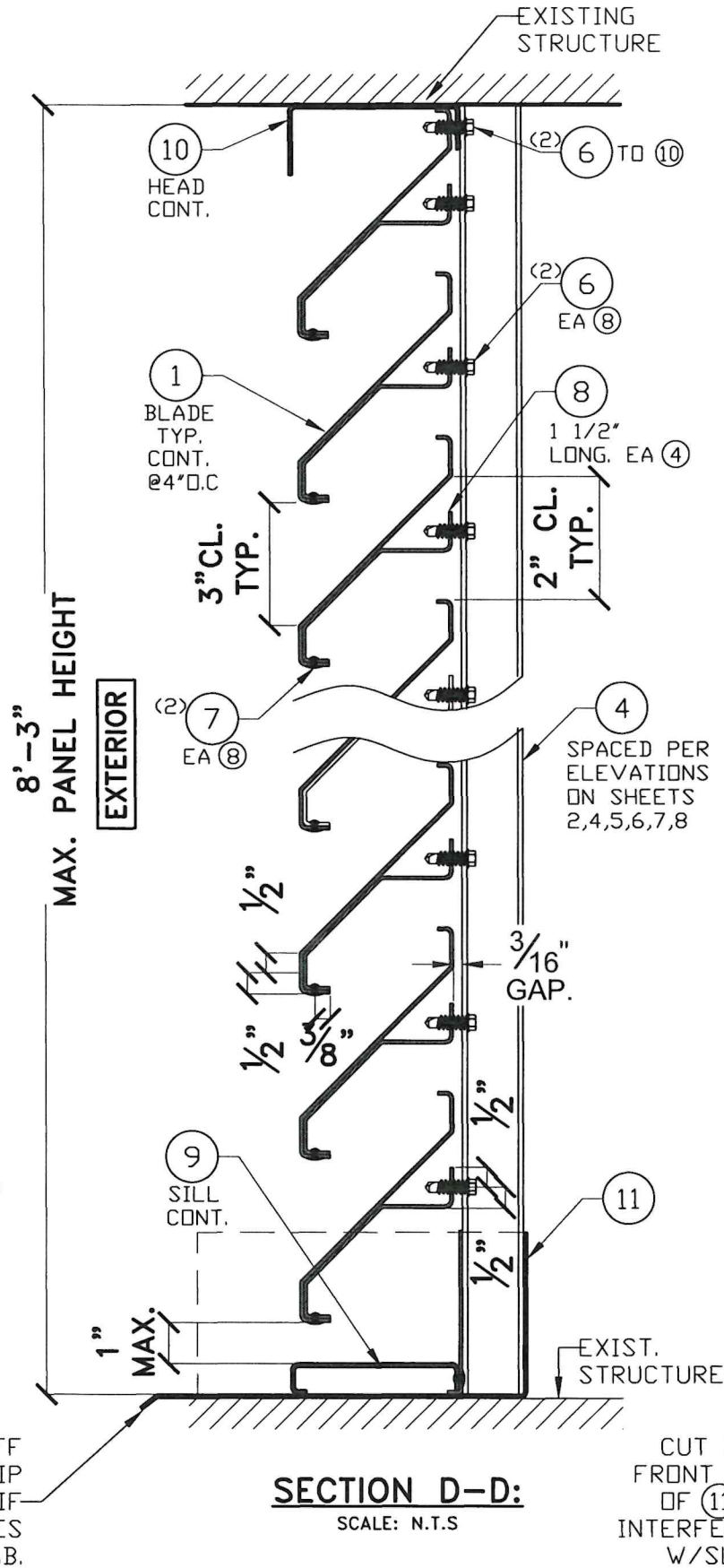
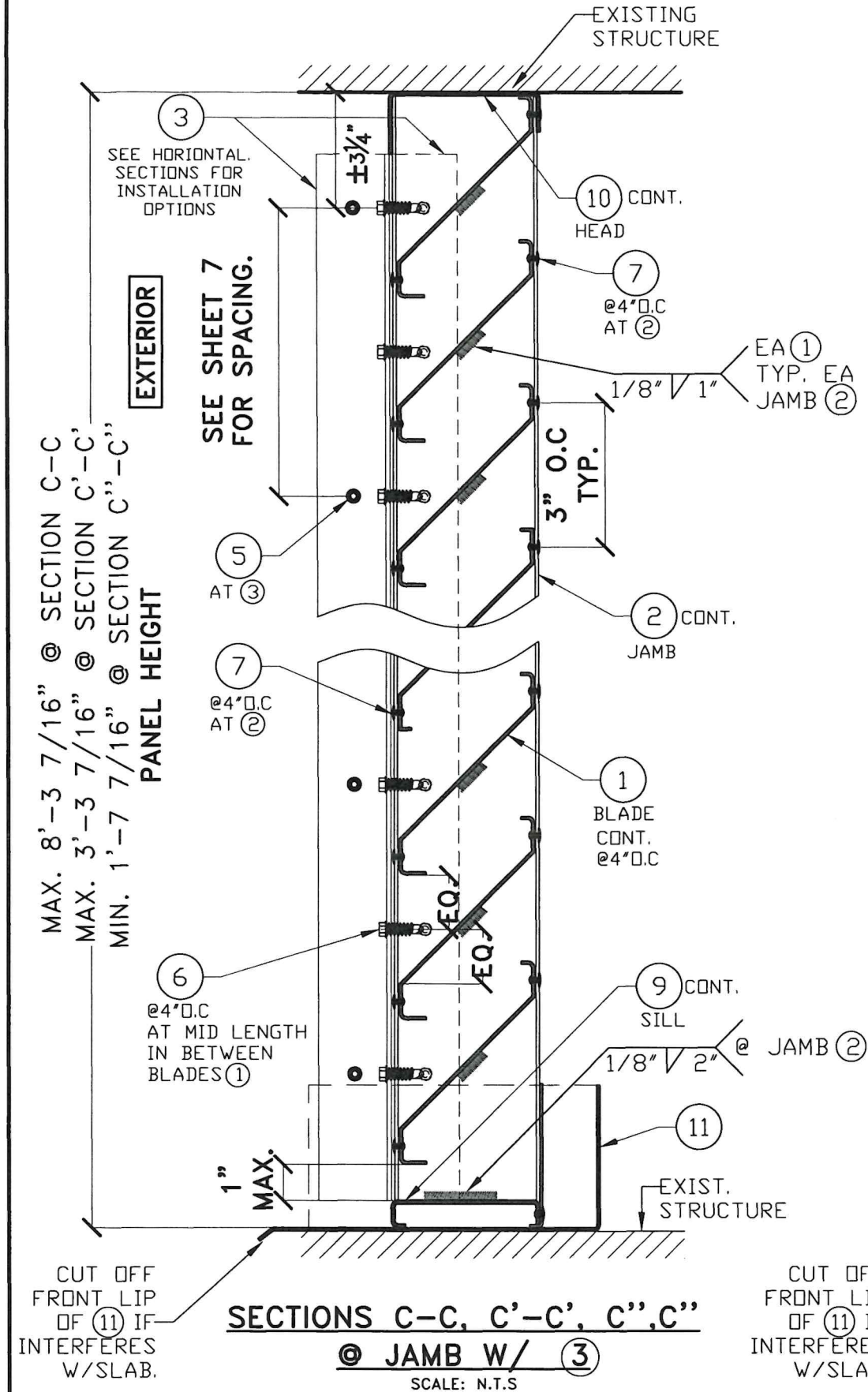
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1	Q.S.P.C. OLD 24-122	9/9/2026			
2					

W.H.
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09/09/2026
DATE:

26-291
DRAWING NO.

SHEET 3 OF 7



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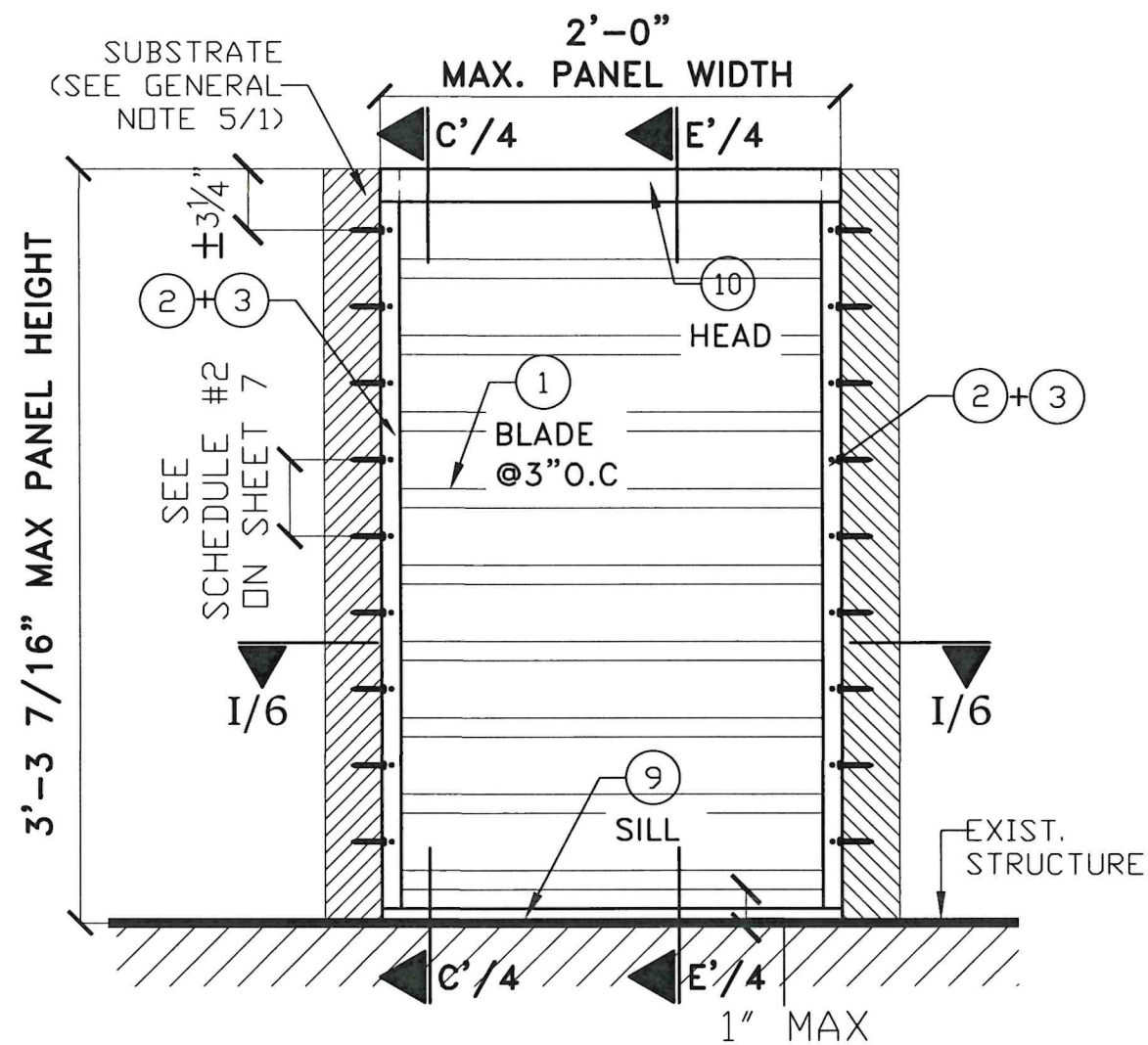
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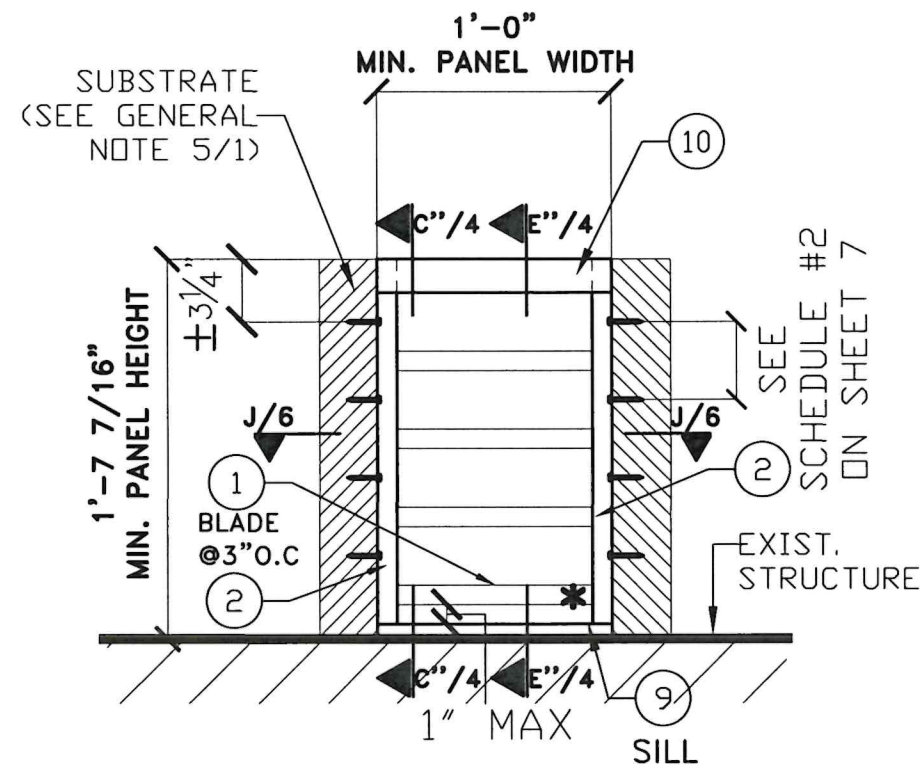
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W.H. DRAWN BY:	09/09/2026 DATE:	26-291 DRAWING NO.	SHEET 4 of 7
BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM	PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL	4310 NW 36TH AVE MIAMI FL 33142 PHONE: (305)997-5714 EMAIL: INFO@PARADISEAWNS.COM	REV. NO. DESCRIPTION DATE
			1 1 1/2" LONG. EA 4
			2 2" CL. TYP.
			3 3" O.C. TYP.
			4 SPACED PER ELEVATIONS ON SHEETS 2,4,5,6,7,8
			5 AT 3
			6 @ 4" O.C. AT MID LENGTH IN BETWEEN BLADES 1
			7 @ 4" O.C. AT 2
			8 1 1/2" LONG. EA 4
			9 SILL CONT.
			10 HEAD CONT.
			11



EXTERIOR ELEVATION
SINGLE PANEL

MAX. PANEL WIDTH & HEIGHT W/O STIFFER ④



EXTERIOR ELEVATION
SINGLE PANEL

MIN. PANEL WIDTH & HEIGHT W/O STIFFER ④

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W.H. DRAWN BY: BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM

09/09/2026 DATE: PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL

26-291 DRAWING No. 4310 NW 36TH AVE MIAMI FL 33142 PHONE: (305)597-5714 EMAIL: INFO@PANELSANDSTEEL.COM

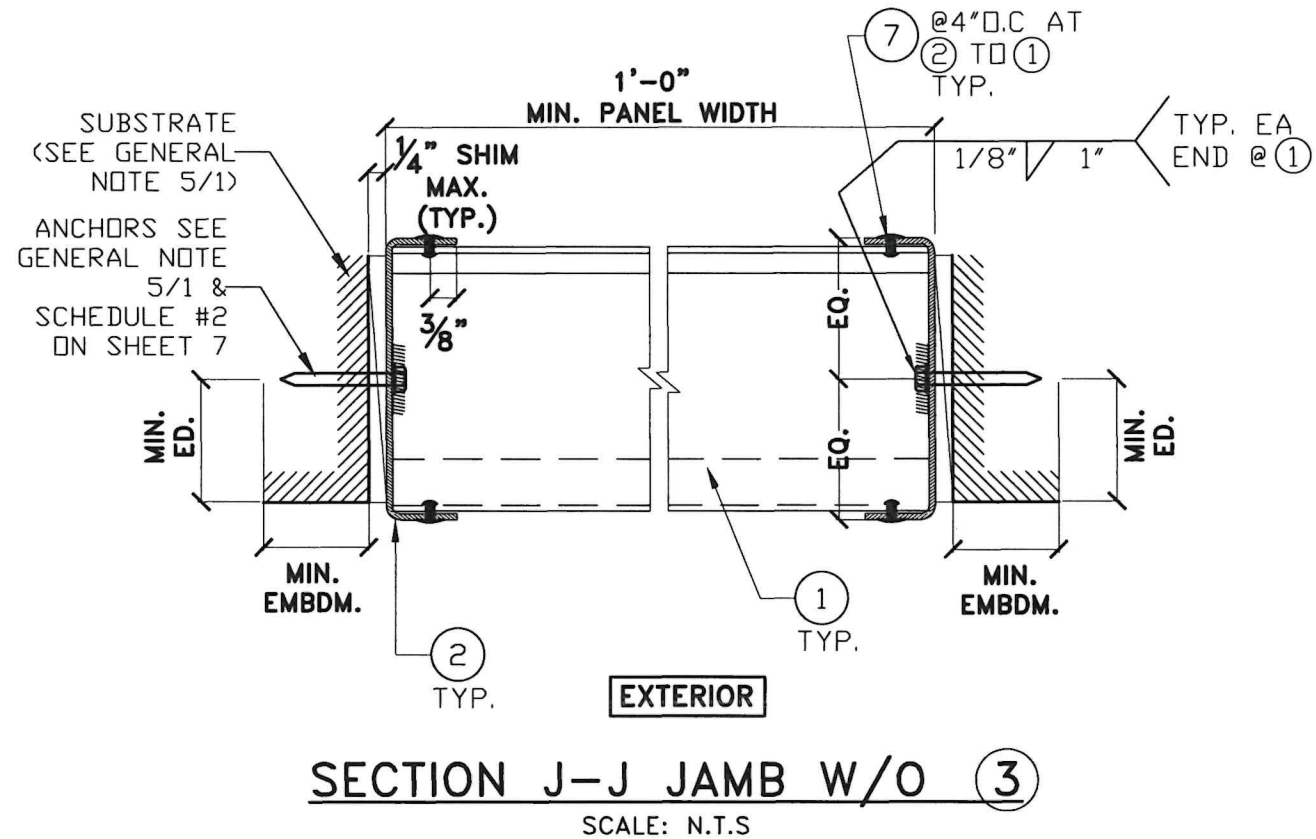
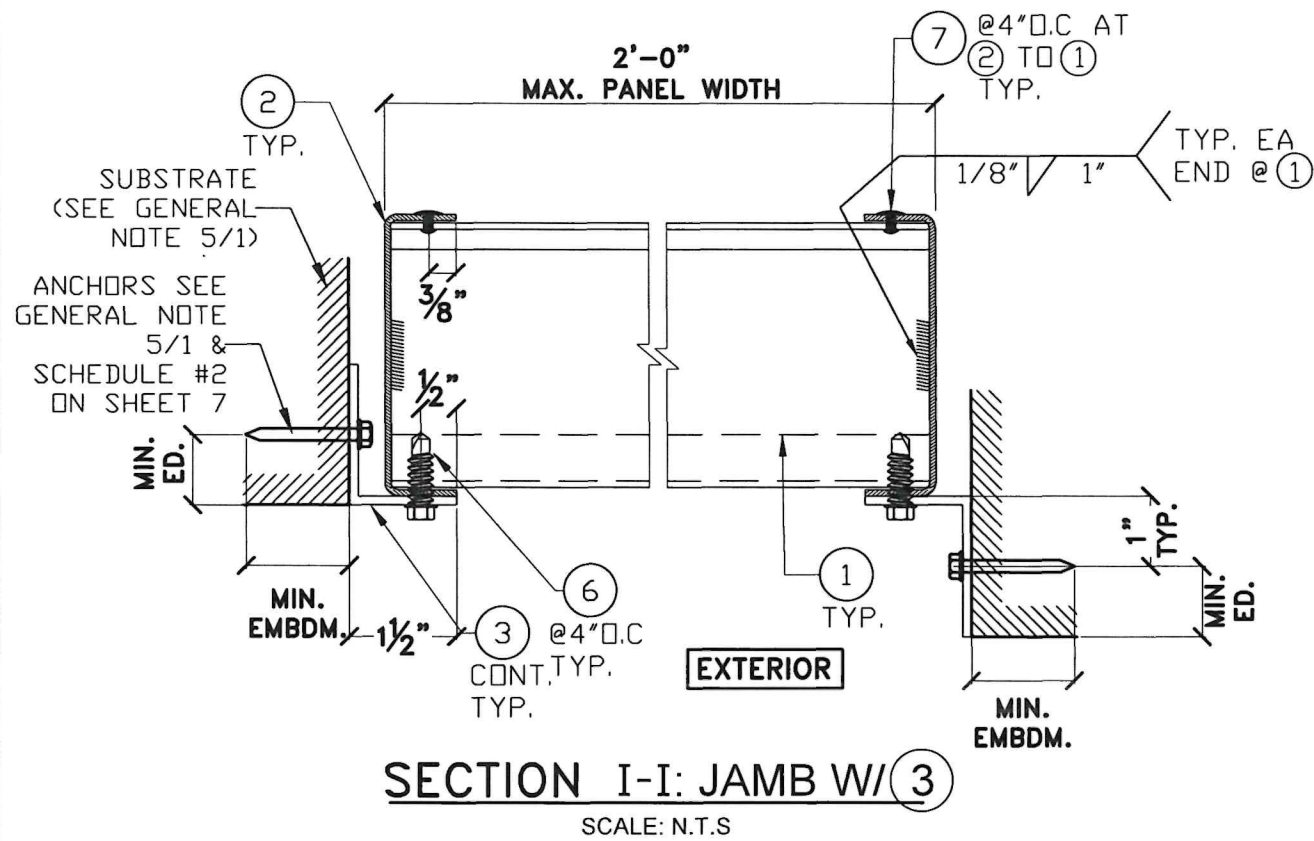
9/9/2026 DATE: 24-122 9/9/2026

1 0 SPCS. QLD 24-122 9/9/2026

2

WALTER A. TILLIT JR.
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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09/09/2026
DATE:

26-291
DRAWING NO.

SHEET 6 of 7

BLADE 1 HORIZONTAL ALUMINUM
LOUVER SYSTEM

PARADISE AWNINGS CORPORATION
DBA PARADISE ARCHITECTURAL
PANELS & STEEL

4310 NW 36TH AVE
MIAMI, FL 33142
PHONE: (305)997-5714
EMAIL: INFO@PARADELSANDSTEEL.COM

REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE
1	01 SPEC. D.D. 24-122	9/9/2026			
2					



P.E. SEAL/SIGNATURE/DATE

SCHEDULE #1:
MAX PANEL WIDTH (L) FOR A GIVEN
A.S.D PRESSURE, VALID FOR ALL
SUBSTRATES AT JAMBS

A.S.D PRESSURE	MAX. PANEL WIDTH (L)
±55.0 psf OR LESS	10'-0"
>55.0 psf TO 65.0 psf	9'-0"
>65.0 psf TO 75.0 psf	8'-6"
>75.0 psf TO 100.0 psf	7'-10"
>100.0 psf TO 150.0 psf	6'-8"

SCHEDULE #2:
MAX. ANCHOR SPACING FOR A MAX. PANEL
WIDTH (L) PER SCHEDULE #1 & A.S.D
PRESSURE FOR DIFFERENT SUBSTRATES.

A.S.D PRESSURE	CONCRETE OR ALUM. OR STEEL	GROUTED CONCRETE BLOCK	WOOD
±55.0 psf OR LESS	8"O.C	8"O.C	8"O.C
>55.0 psf TO 65.0 psf	8"O.C	8"O.C	8"O.C
>65.0 psf TO 75.0 psf	8"O.C	8"O.C	8"O.C
>75.0 psf TO 100.0 psf	8"O.C	8"O.C	4"O.C
>100.0 psf TO 150.0 psf	8"O.C	8"O.C	4"O.C



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REV. NO

DESCRIPTION

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DATE

1

Ø SPCS, OLD 24-122

9/9/2026

2

SHEET 7 of 7