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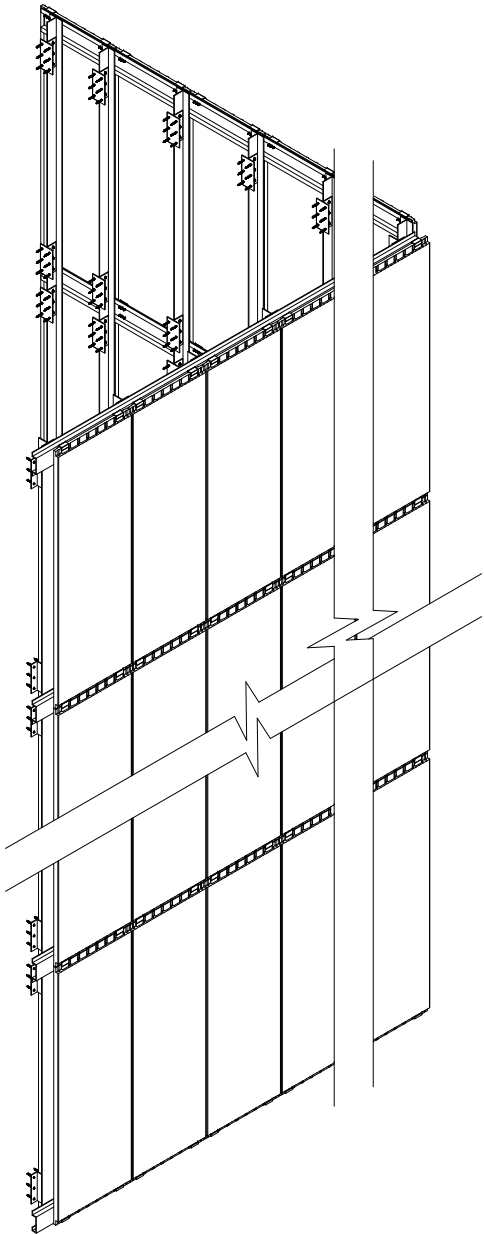
ADDITIONAL DETAILS:
FOR SPECIAL SITE CONDITION, CONTACT
SHILDAN INC.

TO OBTAIN AUTOCAD/REVIT COMPATIBLE
DETAILS OF THIS PRODUCT, KINDLY GET
IN TOUCH WITH US CONTACTING US VIA
OUR OFFICIAL EMAIL ADDRESS:
CONTACT@JA-PE.COM.

LONGOTON TERRACOTTA VERTICALLY ORIENTED RAINSCREEN SYSTEM

(*LARGE & SMALL MISSILE IMPACT*)

FL# 14291.4



GENERAL NOTES

1. THIS SYSTEM PRESENTED HEREIN HAS UNDERGONE DESIGN AND TESTING IN FULL COMPLIANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) AND IS INTENDED FOR USE IN HIGH VELOCITY HURRICANE ZONE PER TAS 201/202/203.

2. THE DESIGN PRESSURES OUTLINED IN THIS DOCUMENT ARE DERIVED FROM MAXIMUM TESTED PRESSURES AND INCORPORATE A 1.5 SAFETY FACTOR.

3. THE PRESSURES PROVIDED IN THIS CERTIFICATION ARE DETERMINED USING THE ALLOWABLE STRESS DESIGN METHOD (ASD).

4. THIS PRODUCT HAS BEEN RIGOROUSLY TESTED IN ACCORDANCE WITH THE STANDARDS DESCRIBED IN NOTE 1 OF THE GENERAL NOTES. IT IS CONFIRMED TO BE RESISTANT TO LARGE MISSILE IMPACT, THEREBY NOT NECESSITATING THE USE OF IMPACT-RESISTANT SHUTTERS.

5. THE DESIGN OF THIS SYSTEM DOES NOT INCORPORATE A 33-1/3% INCREASE IN ALLOWABLE STRESS. FOR WOOD ANCHOR DESIGN, A WIND LOAD DURATION FACTOR OF CD=1.6 HAS BEEN EMPLOYED.

6. THE ARCHITECT/ENGINEER OF RECORD RESPONSIBLE FOR THE PROJECT'S SUPERSTRUCTURE, WITH WHICH THIS DESIGN IS ASSOCIATED, SHALL ENSURE THE INTEGRITY OF ALL SUPPORTING SURFACES. COORDINATION WITH THE PERMITTING CONTRACTOR IS REQUIRED, AND PROPER ANCHORING OF WOOD BUCKS (BY OTHERS) MUST FACILITATE LOAD TRANSFER TO THE EXISTING STRUCTURE.
7. THE DETAILS OF THE SYSTEM PROVIDED HEREIN ARE OF A GENERIC NATURE AND DO NOT OFFER SPECIFIC SITE INFORMATION. FOR SITE CONDITIONS THAT DIFFER FROM THOSE SPECIFIED HERE, A LICENSED ENGINEER OR REGISTERED ARCHITECT MUST PREPARE SITE-SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS CERTIFICATION.

8. THE CONTRACTOR IS ACCOUNTABLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS (E.G., STEEL WITH ALUMINUM).

9. THE SUBSTITUTION OF FASTENERS DESCRIBED IN THIS CERTIFICATION IS PERMISSIBLE, PROVIDED THE ALTERNATIVE ANCHOR EXHIBITS STRENGTH EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE GRANTED BY RELEVANT AUTHORITIES.

10. THE WOOD SCREWS REFERENCED IN THIS CERTIFICATION MUST MEET A MINIMUM GRADE OF 2 (FU = 74,000 PSI).

11. FASTENERS AND ANCHORS MUST BE OF SERIES 300 (STAINLESS STEEL), CONFORMING TO "SPECIFICATIONS FOR ALUMINUM STRUCTURES" AS OUTLINED IN SECTION J.3 OF THE CURRENT CODE BY THE ALUMINUM ASSOCIATION, INC., IN ADDITION TO ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.

12. THE ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS PRESENTED SOLELY. ANY USE OF THIS SPECIFICATION BY THE CONTRACTOR OR OTHERS INDEMNIFIES AND SAVES THE ENGINEER HARMLESS FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES.

13. ARISING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THE SCOPE CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES OR DEVIATIONS FROM THE PLAN.

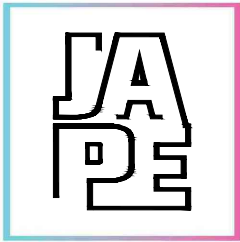
14. NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED BEYOND WHAT IS EXPRESSLY PROVIDED IN THIS DOCUMENT.

15. ALTERATIONS, ADDITIONS, OR ANY MARKINGS TO THIS DOCUMENT ARE STRICTLY PROHIBITED AND WILL INVALIDATE THIS CERTIFICATION.

16. PROPER SAFETY MEASURES MUST BE OBSERVED DURING THE INSTALLATION AND USE OF THIS SYSTEM, EVEN THOUGH THEY ARE NOT EXPLICITLY LISTED IN THIS CERTIFICATION.

17. EACH PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM, CONTAINING THE FOLLOWING REQUIRED INFORMATION:
SHILDAN INC.
2047 BRIGGS ROAD, MT. LAUREL, NJ 08054
TEL (215) 525-4510, FAX. (215) 525-4511
APPROVED BY FLORIDA BUILDING COMMISSION

FLORIDA PRODUCT APPROVAL NUMBER FL# 14291.4
THIS PRODUCT IS APPROVED FOR IMPACT RESISTANT LEVEL 'D'.



JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL
33172
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contact@ja-pe.com

**LONGOTON TERRACOTTA
VERTICALLY ORIENTED
RAINSCREEN SYSTEM
(L.M.I. & S.M.I.)**

SHILDAN INC.
2047 BRIGGS ROAD
MT. LAUREL, NJ 08054
TEL. (215) 525-4510
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		DATE	BY
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date:	scale:	drawn by:	check by:
		M.S.	H.T.
DRAWING NO.		JA-1687-23	

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COVER PAGE	SHEET No. 01 OF 13
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GENERAL NOTES

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

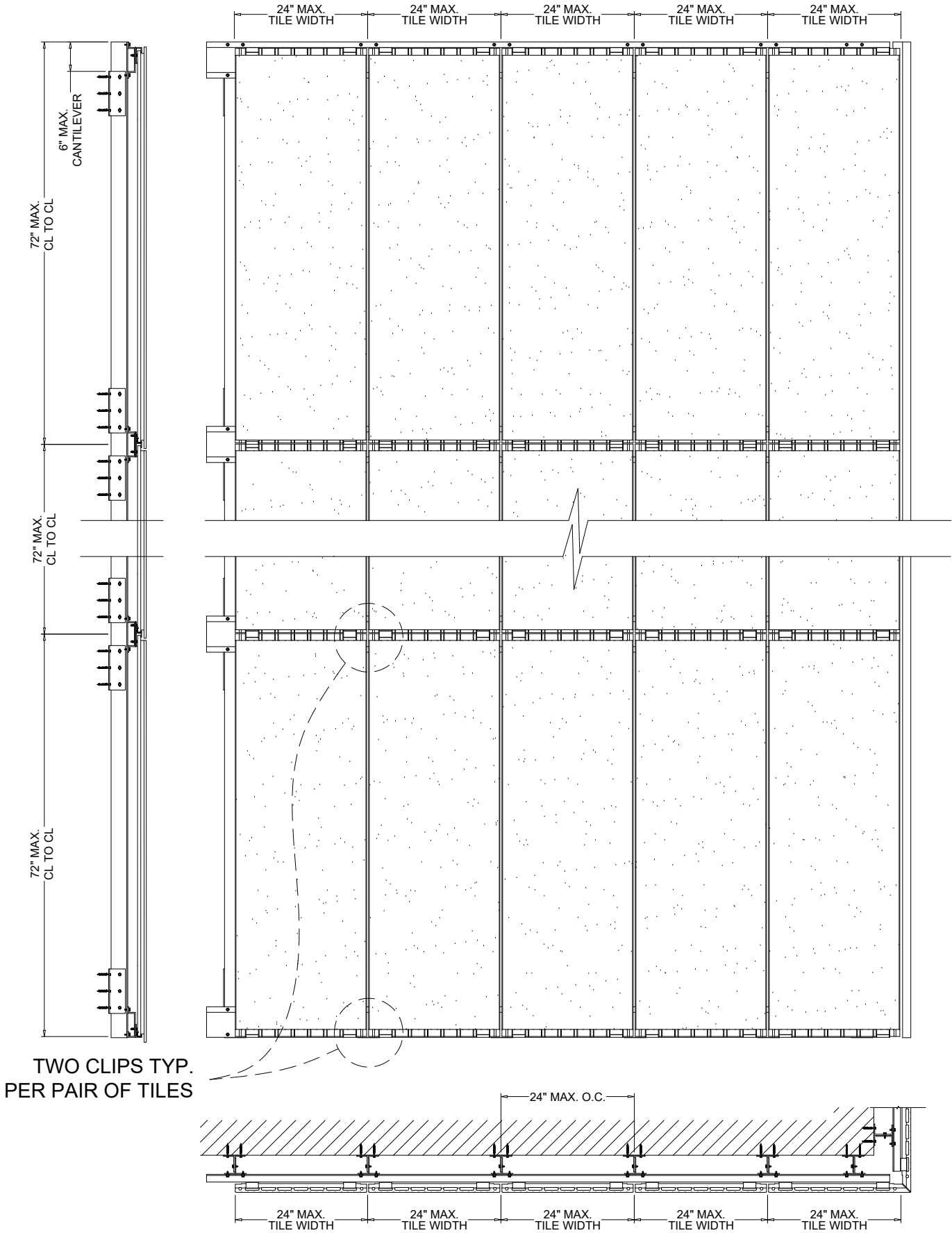
LONGOTON TERRACOTTA
VERTICALLY ORIENTED
RAINSCREEN SYSTEM (L.M.I)

TERRACOTTA TILES ANCHORED TO SHEAR WALLS AS EXTERIOR CLADDING.

AVERAGE BREAKING LOAD PER ASTM C1167 = 1260 Lbs

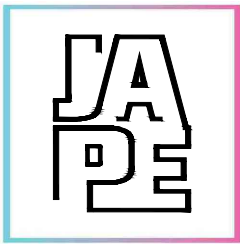
APPROVAL APPLIES TO MULTIPLE UNIT INSTALLATIONS

MAX. DESIGN LOAD = +/- 80.0 PSF
MAX. VERTICAL TRACK SPACING = 24 IN.
MAX. TILE SIZE = 24" HIGH X 70" WIDE



TYPICAL ELEVATION

FL# 14291.4



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TYP. ELEV.	SHEET No. 02 OF 13
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GENERAL NOTES:

- A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE 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 OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C. THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- 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. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E. THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

ANCHOR DESCRIPTION:

- 1

(4) 1/4" DIA. TEKS OF SELF DRILLING SCREWS (300 STAINLESS STEEL) THRU. 1/2" MIN. SHEATHING MIN. 16 GA. METAL STUDS (1/8" MIN. THK.) WITH (3) THREAD MIN. PENETRATION & 1/2" MIN. METAL E.D.
(6) ANCHORS PER T-CLIP. SEE DETAILS FOR SPACING (SEE SHEET 06-11)
- 2

1/4" DIA (300 STAINLESS STEEL AGGRE-GATOR BY DEWALT) DIRECTLY INTO CONCRETE (f_c = 3000 PSI MIN.) OR CMU (C-90 HOLLOW/FILLED BLOCK, f_m = 2000 PSI MIN) 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DIST.
(6) ANCHORS PER T-CLIP. SEE DETAILS FOR SPACING (SEE SHEET 06-11)
- 3

#14 SMS OR SELF DRILLING SCREWS (300 STAINLESS STEEL)
(3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. METAL SUBSTRATE 1/2" MIN. METAL EDGE DISTANCE, 1/2" MIN. O.C. SPACING

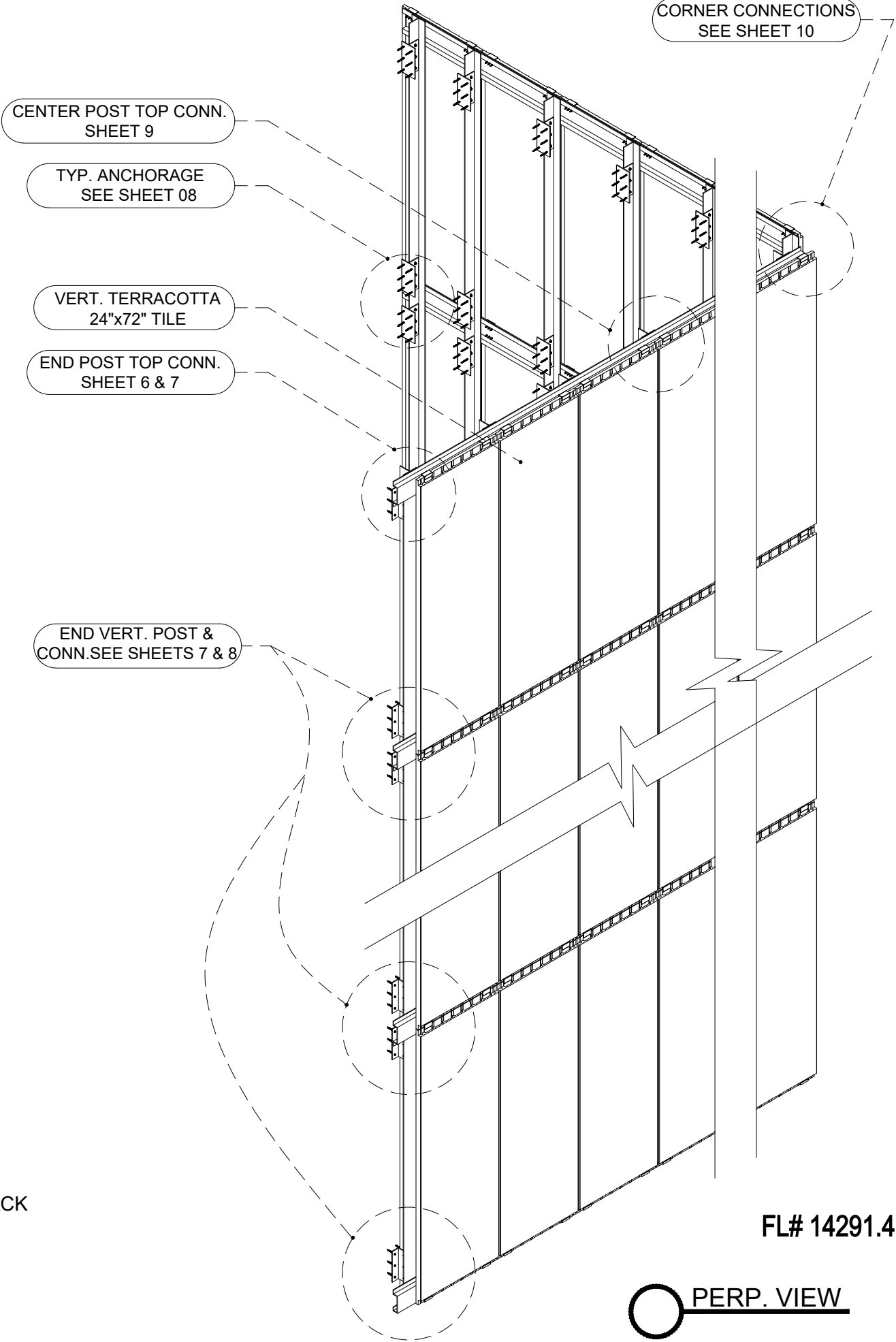
3A

(3) ANCHORS PLACED AT EACH VERTICAL T-CLIP AT 2-3/4" MIN. O.C. SPACING

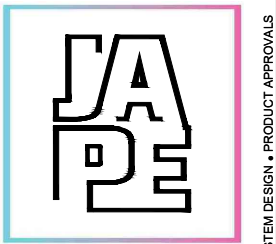
3B

(3) SLOTTED ROUND HEADED ANCHORS PER CLIP
- 4

#14 X 1" SELF TAPPING SCREWS (300 STAINLESS STEEL) AT CENTER OF THE TRACK
(3) THREAD MIN. PENETRATION BEYOND 1/8" MIN. METAL SUBSTRATE 1/2" MIN. METAL EDGE DISTANCE, 1/2" MIN. 2-3/4" MAX. O.C. SPACING
CLUSTER OF (4) ANCHORS TO SECURE HORIZONTAL HAT-CHANNEL WITH VERTICAL CONT. T-TRACK
VERTICAL T-TRACK PLACED AT 24" MAX. O.C. SPACING (SEE SHEET 06-11)



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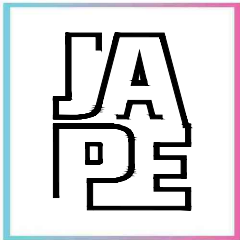
LONGOTON TERRACOTTA
VERTICALLY ORIENTED
RAINSCREEN SYSTEM
(L.M.I. & S.M.I.)
SHILDAN INC.
2047 BRIGGS ROAD
MT. LAUREL, NJ 08054
TEL. (215) 525-4510
FAX. (215) 525-4511

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No.	DATE	BY	DESCRIPTION
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DESCRIPTION	SHEET No.
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SIDE SECTIONS

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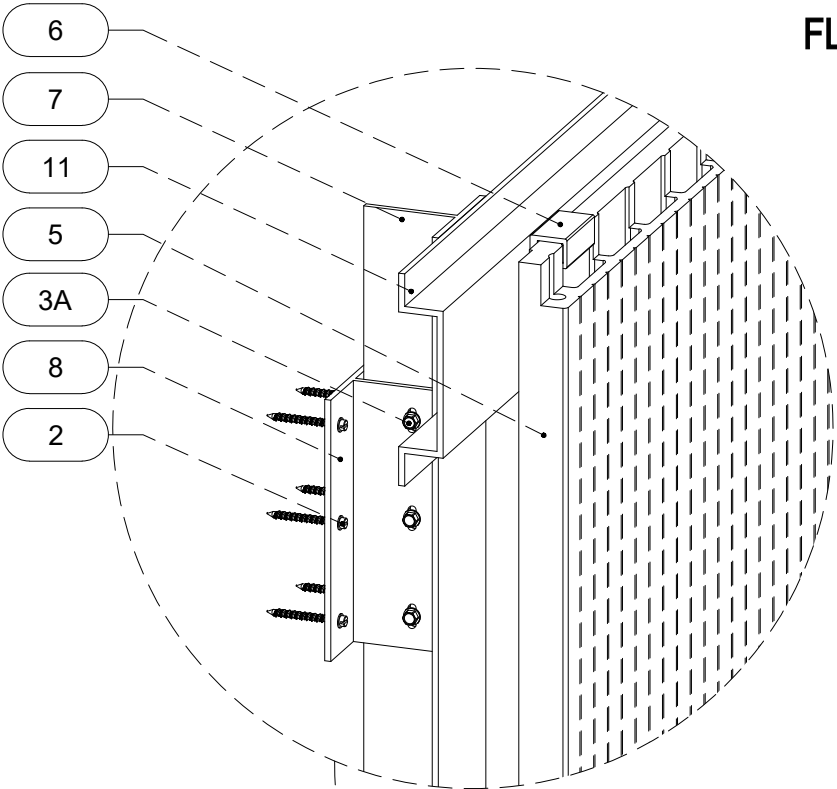
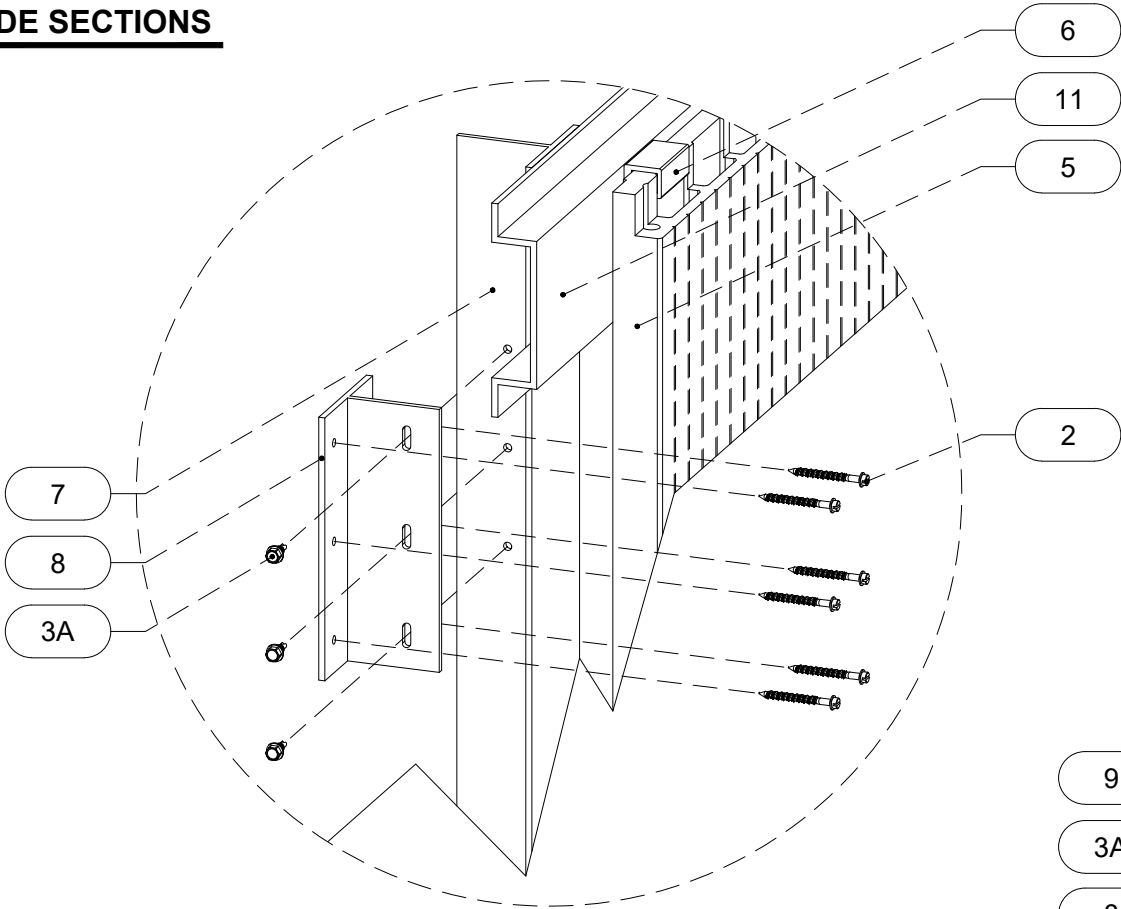
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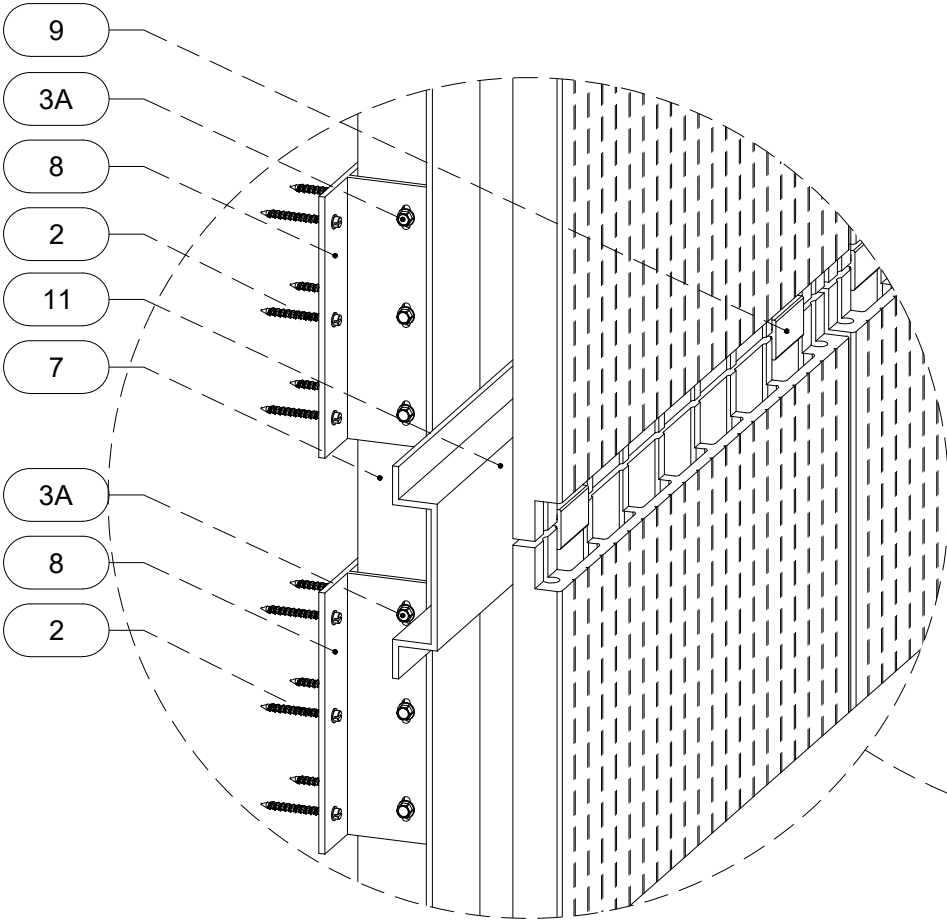
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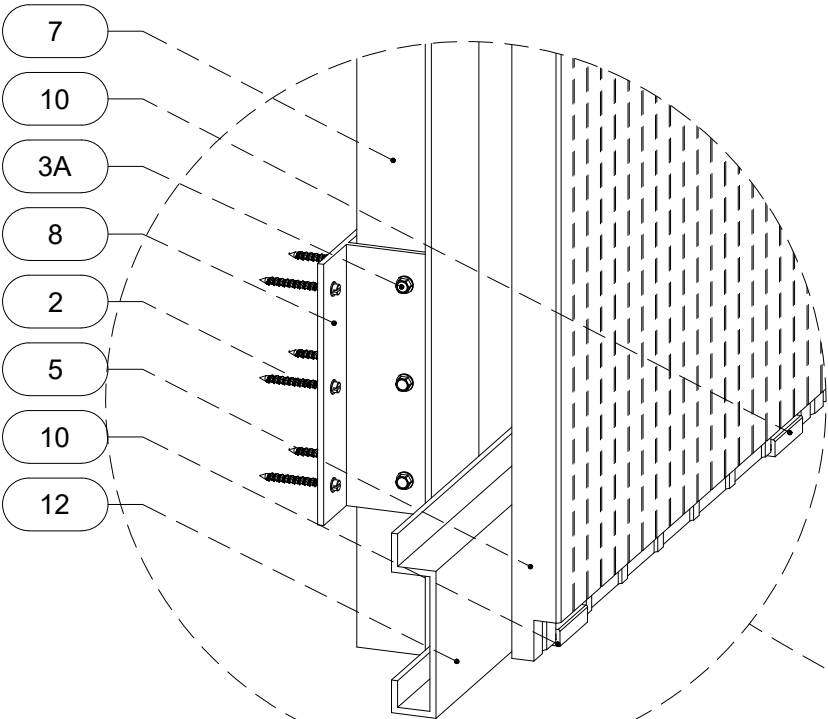
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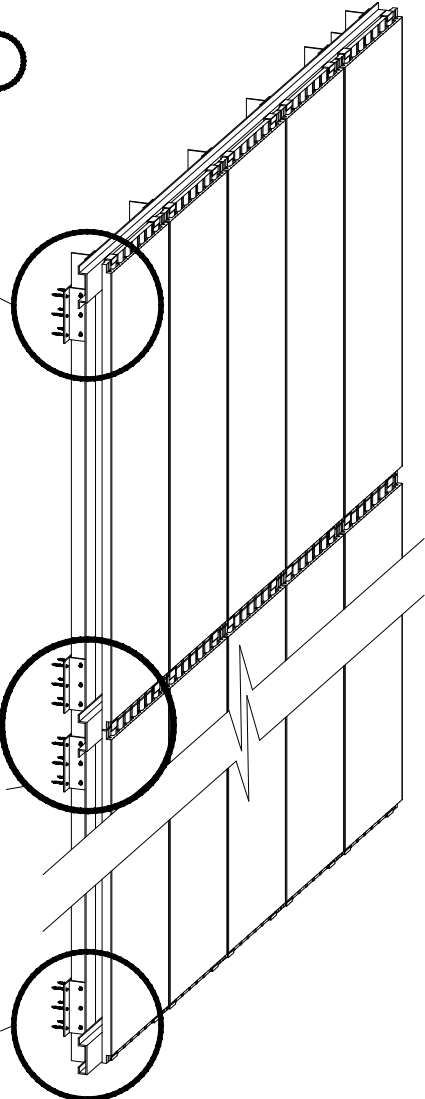
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S.2



S.3



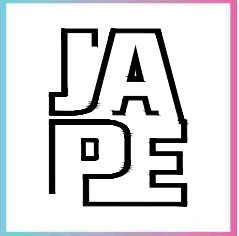
PERP. VIEW

CLIPS / ANCHORS CONNECTION

NOTE: TILES AT TOP AND BOTTOM ENDS NOT FULLY SHOWN TO EXPOSE/SHOW CLIPS

TOP SECTIONS

FL# 14291.4



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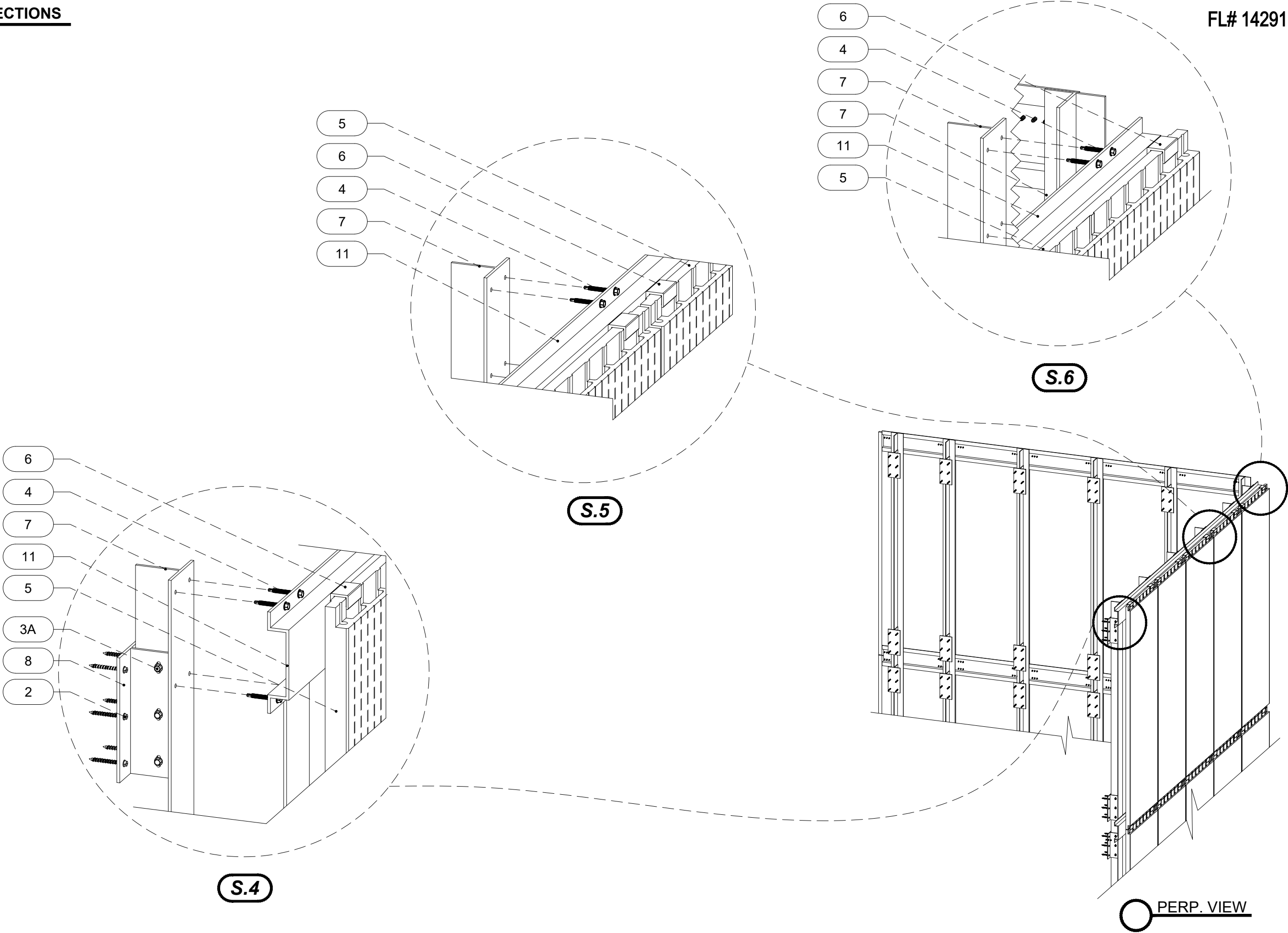
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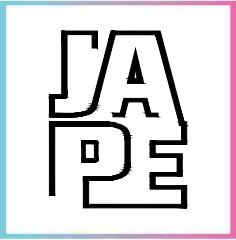
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SECTIONS

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05 OF 13



NOTE: TILES AT TOP AND BOTTOM ENDS NOT FULLY SHOWN TO EXPOSE/SHOW CLIPS



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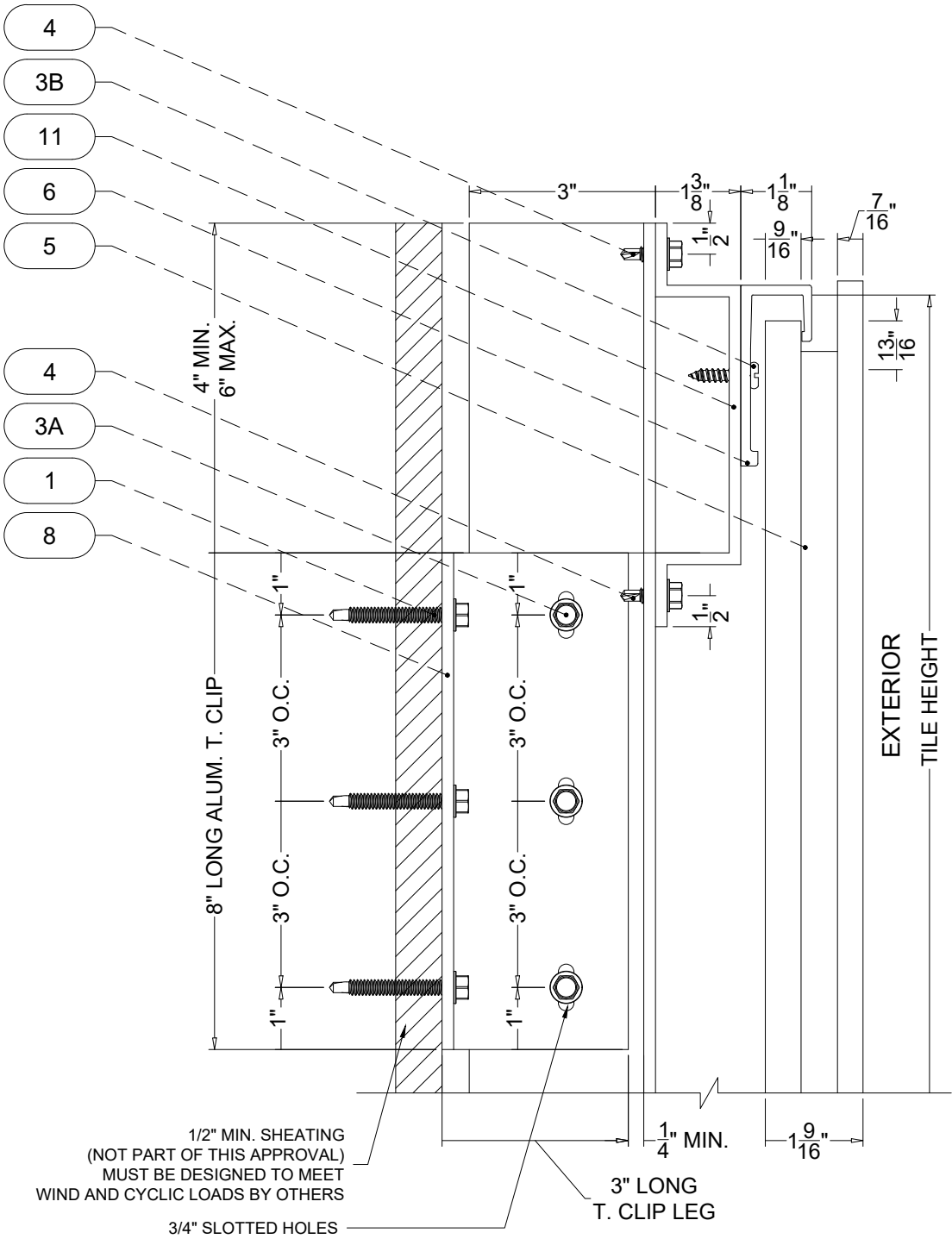
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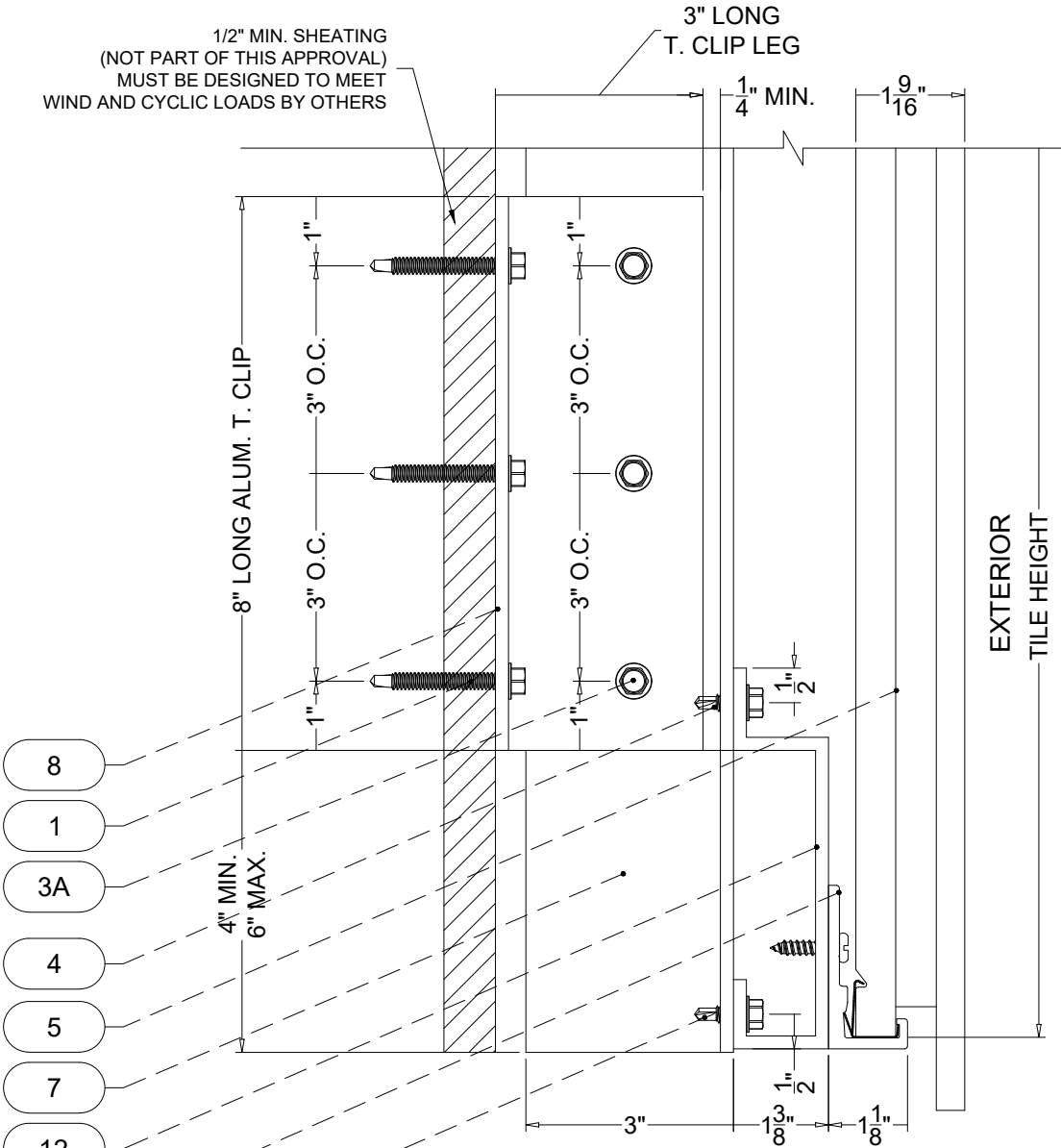
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SEC. DETAILS

SHEET No.
06 OF 13



S.1 TOP DETAIL



S.3 BOTTOM DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
MUST SUSTAIN LOADS IMPOSED BY CLADDING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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FAX: (215) 325-4311

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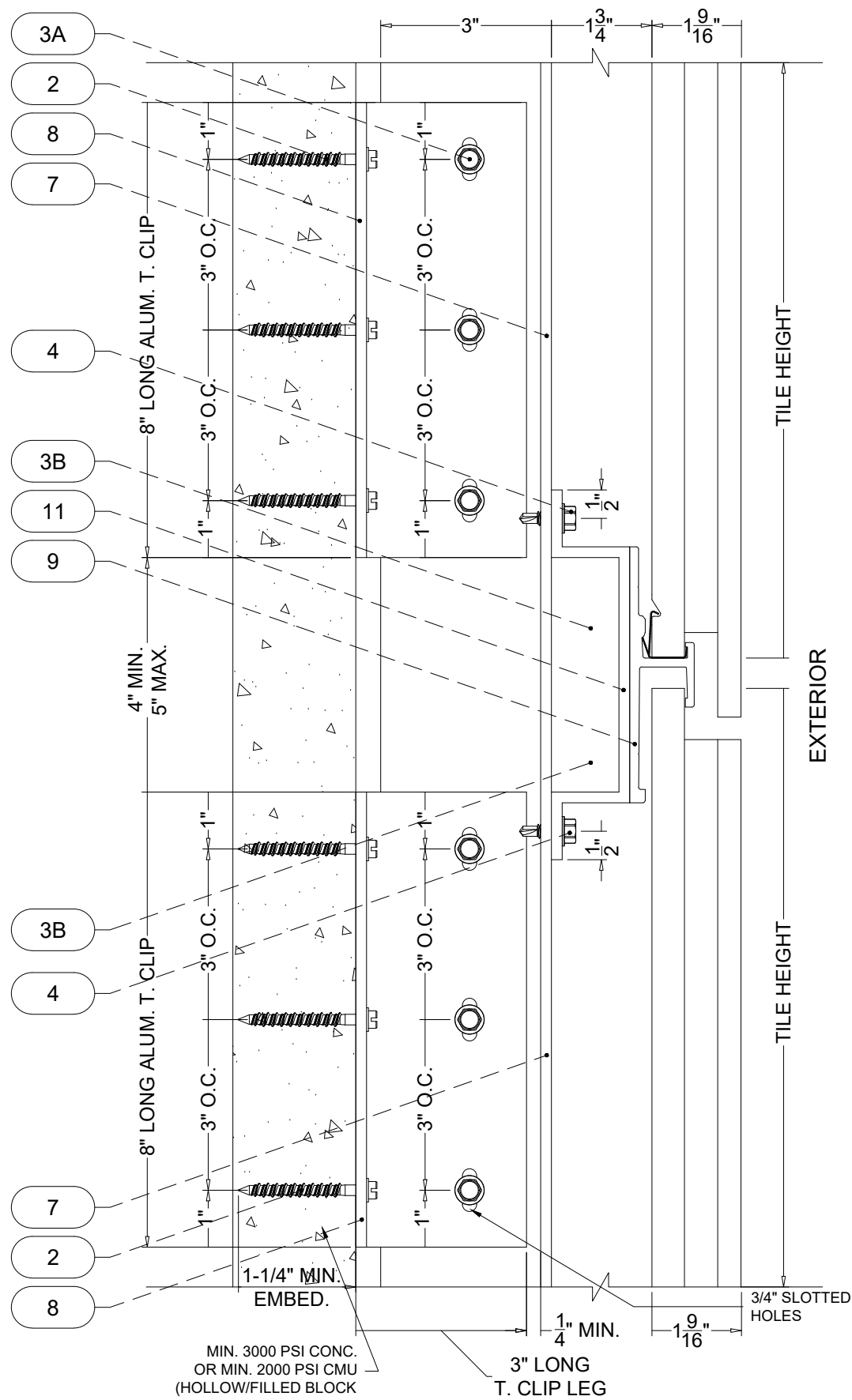
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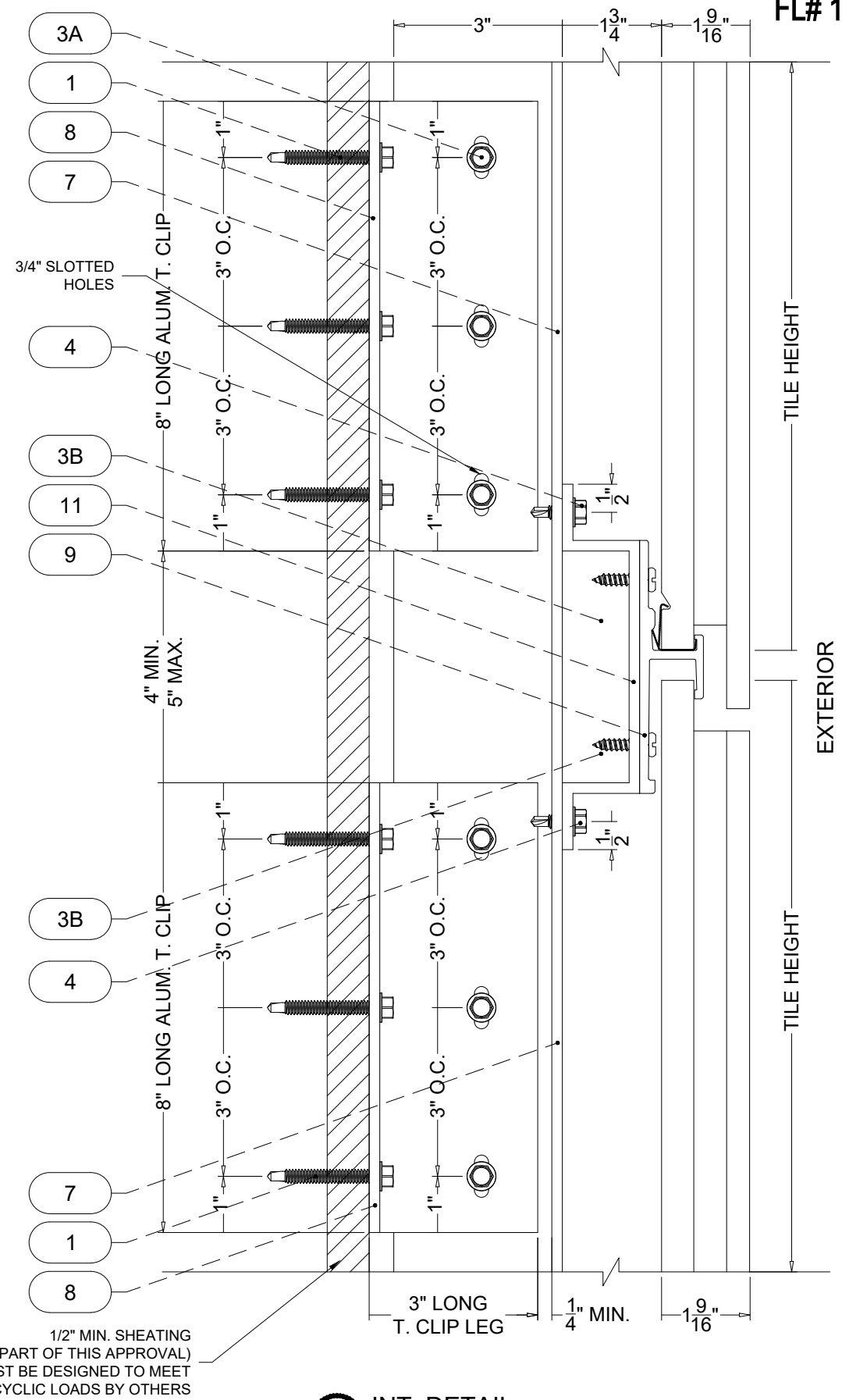
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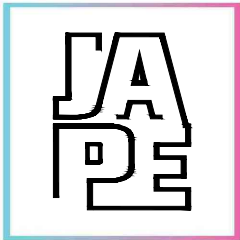
S.2 INT. DETAIL



S.2 INT. DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
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FL# 14291.4



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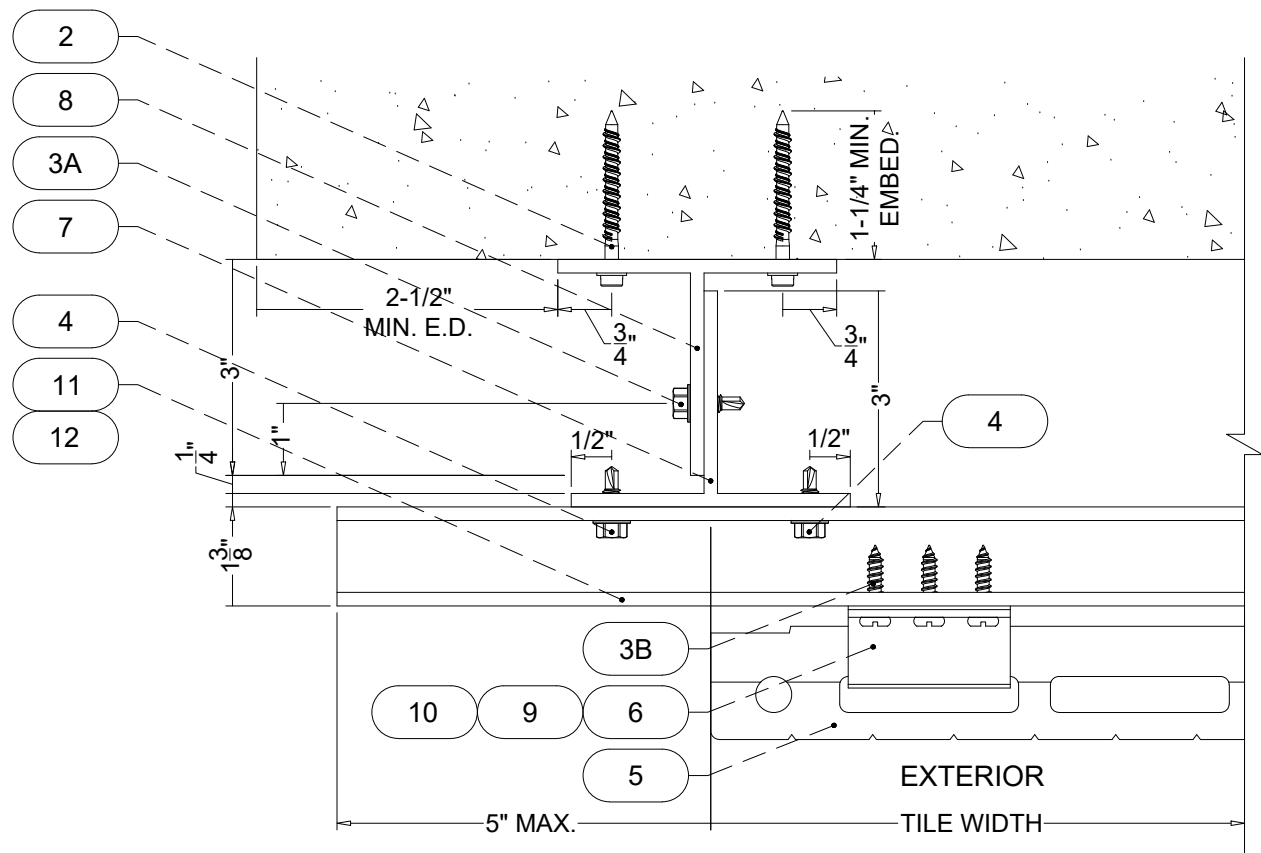
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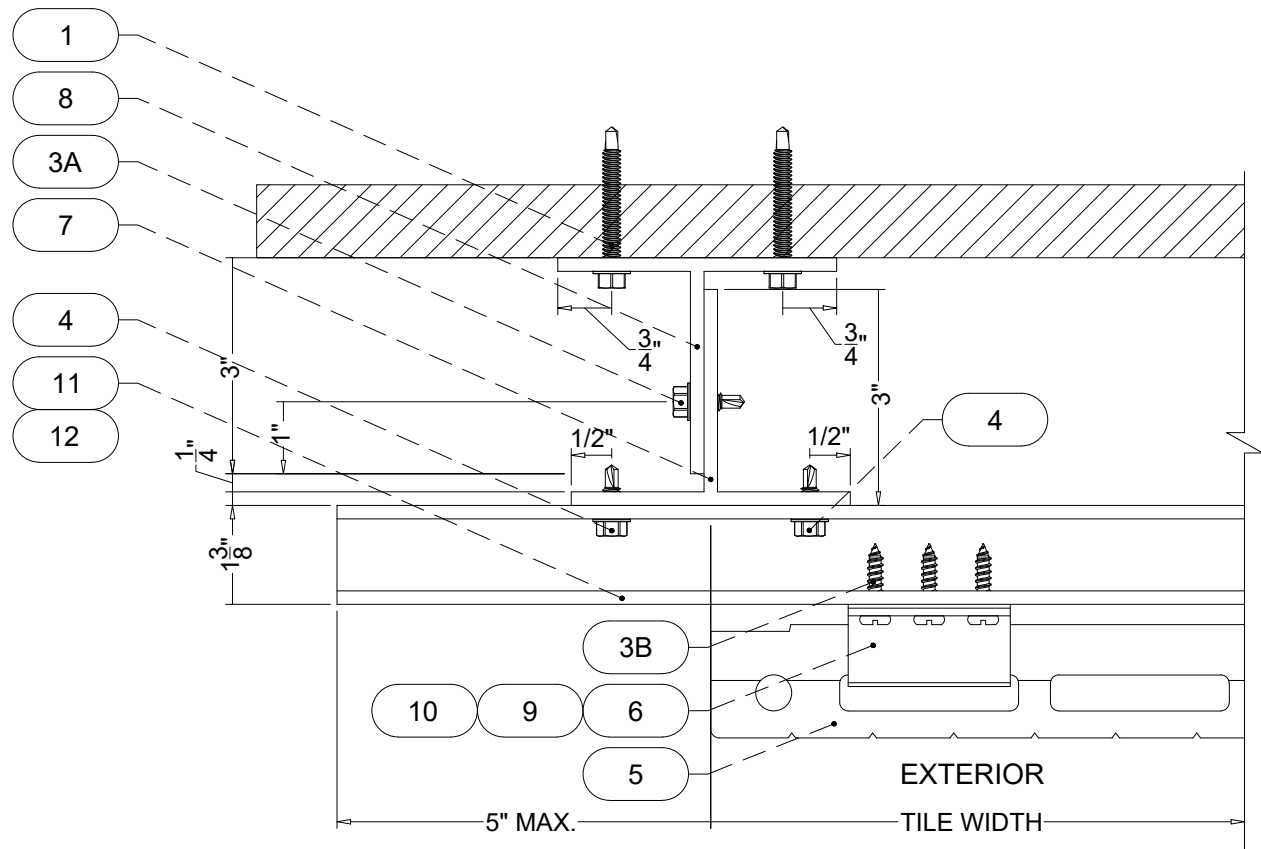
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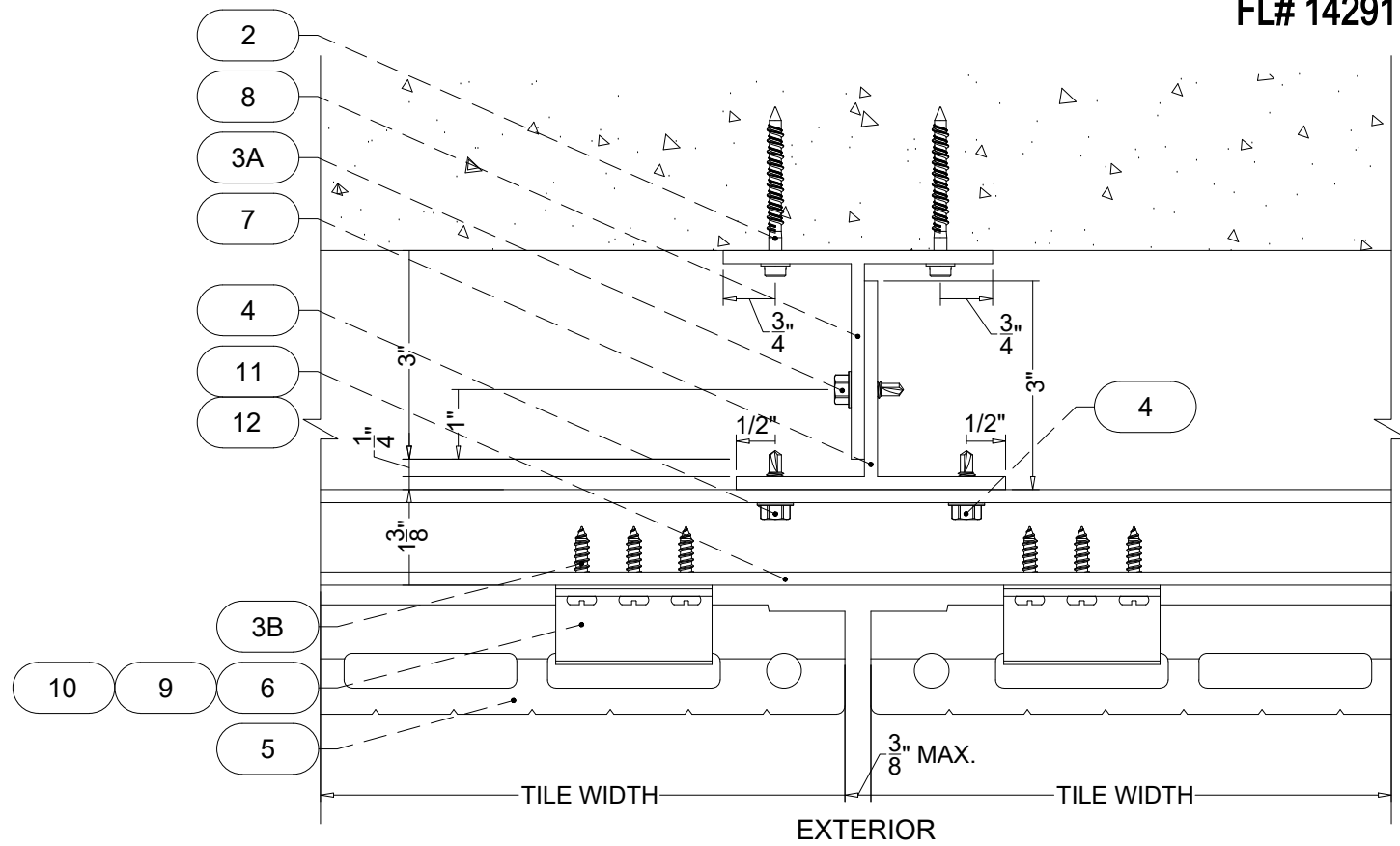
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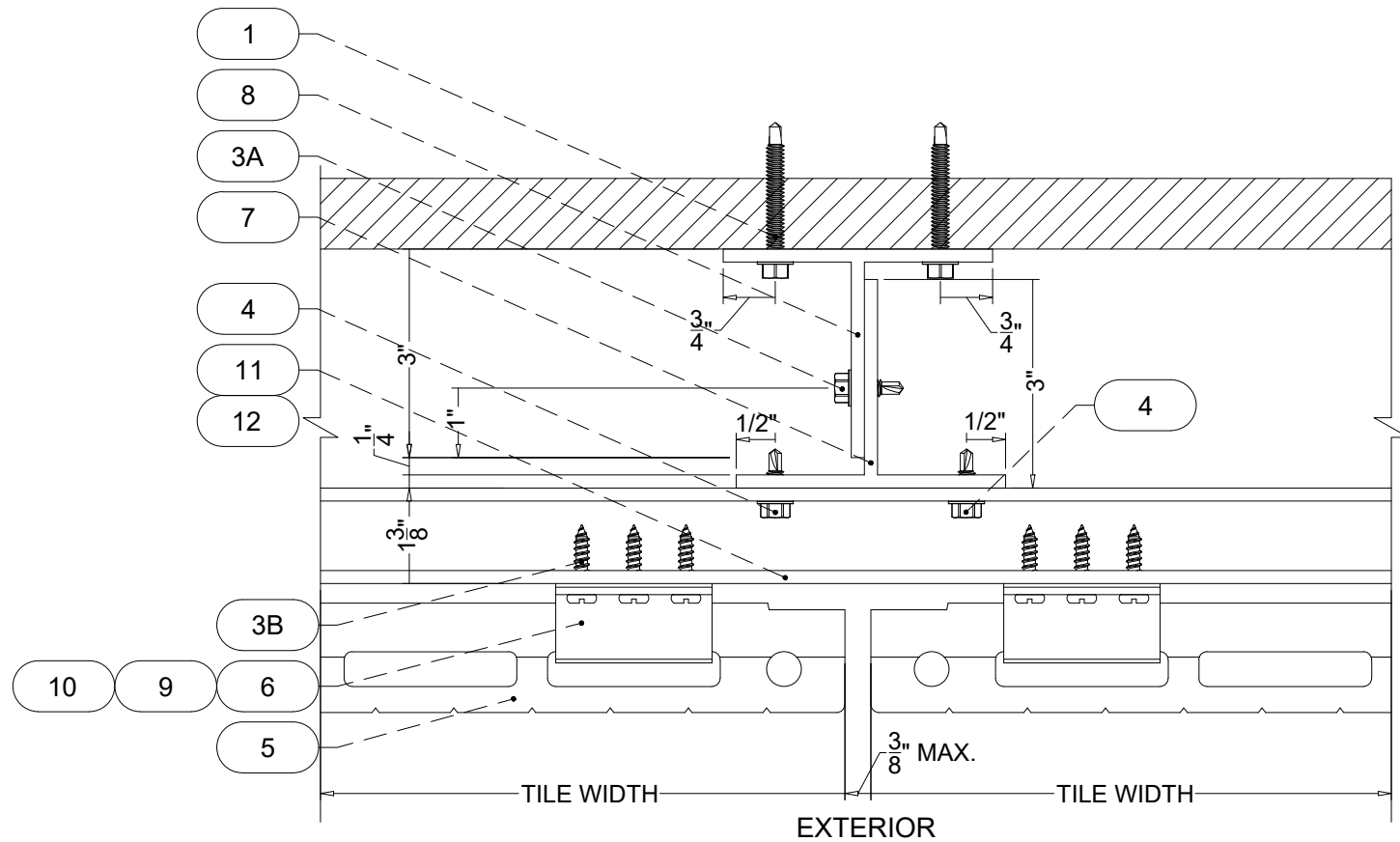
S.4 SIDE DETAIL



S.4 SIDE DETAIL



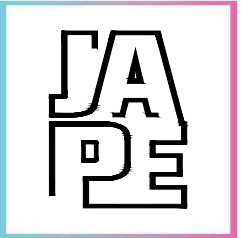
S.5 INT. DETAIL



S.5 INT. DETAIL

METAL STRUCTURES NOT BY 'SHILDAN INC.'
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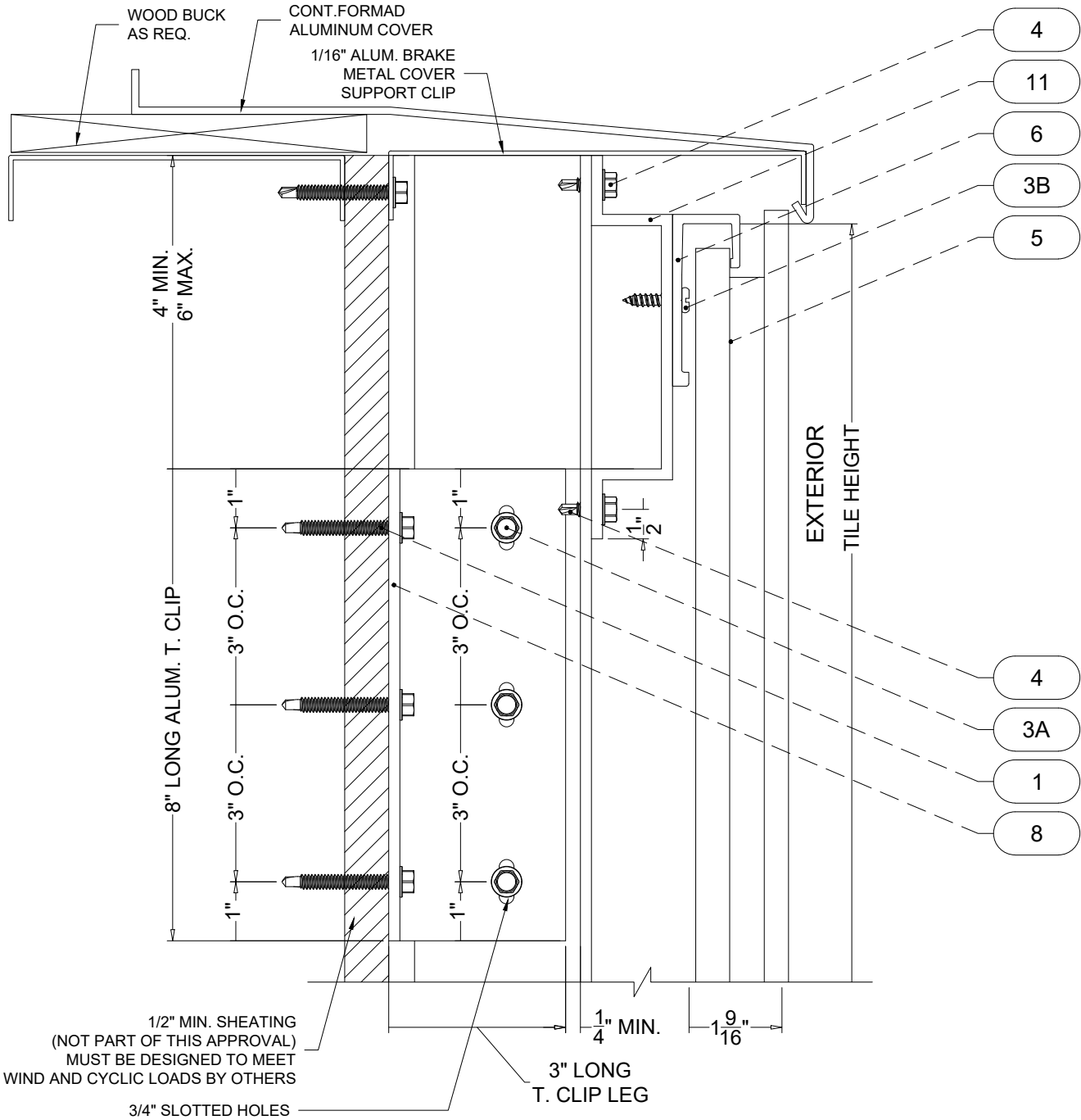
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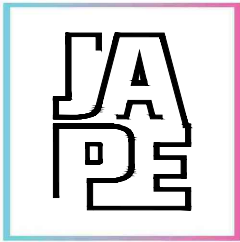


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TOP CLOSURE DETAIL



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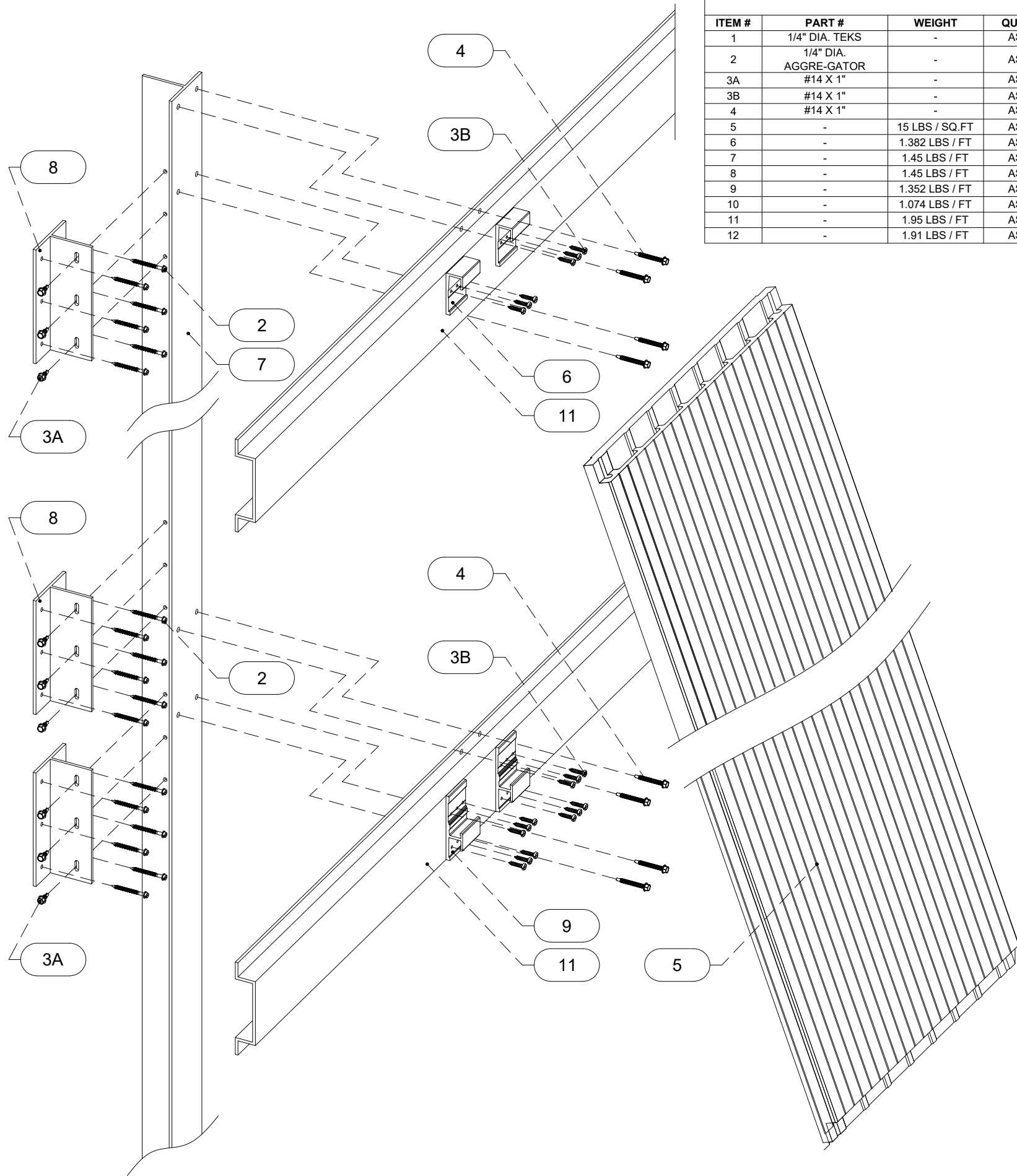
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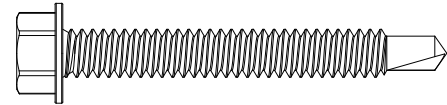
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drawn by:		M.S.	
check by:		H.T.	
DRAWING NO.		JA-1687-23	



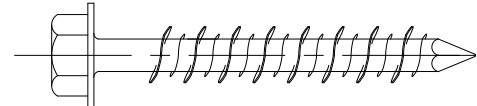
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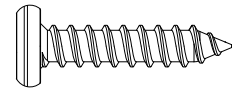
BILL OF MATERIAL						
ITEM #	PART #	WEIGHT	QUANTITY	DESCRIPTION	MATERIAL	MANF / SUPPLIER / REMARKS
1	1/4" DIA. TEKS	-	AS REQ.	T - BRACKET CLIP FASTENERS INTO SUBSTRATE	-	300 STAINLESS STEEL
2	1/4" DIA. AGGRE-GATOR	-	AS REQ.	T - BRACKET CLIP FASTENERS INTO SUBSTRATE	-	300 STAINLESS STEEL AGGRE-GATOR BY DEWALT
3A	#14 X 1"	-	AS REQ.	VERTICAL TRACK TO HOR. HAT CHANNEL FASTENERS	-	300 STAINLESS STEEL
3B	#14 X 1"	-	AS REQ.	TILE CLIP FASTENERS	-	300 STAINLESS STEEL
4	#14 X 1"	-	AS REQ.	VERTICAL TRACK TO HOR. ANGLE FASTENERS	-	300 STAINLESS STEEL
5	-	15 LBS / SQ.FT	AS REQ.	LONGOTON TERRA COTTA VERTICAL TILE	TERRACOTTA	MOEDING KERAMIKFASSADEN GMBH
6	-	1.382 LBS / FT	AS REQ.	TOP TILE CLIP, 2-1/4" LONG	6063-T6	KEYMARK CORP.
7	-	1.45 LBS / FT	AS REQ.	CONT. VERTICAL T-TRACK	6061-T6	KEYMARK CORP.
8	-	1.45 LBS / FT	AS REQ.	CONT. T-CLIP - 8" LONG	6061-T6	KEYMARK CORP.
9	-	1.352 LBS / FT	AS REQ.	MID TILE CLIP, 2-1/4" LONG	6005-T5	KEYMARK CORP.
10	-	1.074 LBS / FT	AS REQ.	BOTTOM TILE CLIP, 2-1/4" LONG	6005-T5	KEYMARK CORP.
11	-	1.95 LBS / FT	AS REQ.	CONT. HORIZONTAL CHANNEL HAT	6061-T6	KEYMARK CORP.
12	-	1.91 LBS / FT	AS REQ.	CONT. HORIZONTAL C-CHANNEL HAT	6061-T6	KEYMARK CORP.



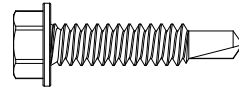
1 1/4" DIA. TEK SCREW
SCALE = 1'-0" = 1'-0"



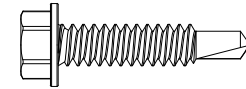
2 1/4" DIA. (300 S.S)
SCALE = 1'-0" = 1'-0"



3B #14 X 1" SMS (SLOTTED)
SCALE = 1'-0" = 1'-0"



3A #14 X 1" SMS
SCALE = 1'-0" = 1'-0"

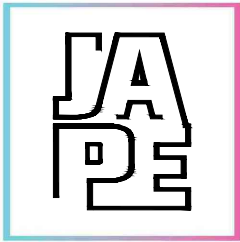


4 #14 X 1" SMS
SCALE = 1'-0" = 1'-0"

INSTALLATION SCREWS

INSTALLATION & TILE REPLACEMENT DETAIL

FL# 14291.4



JAVAD AHMAD PE, inc

8800 NW 23rd St, Miami FL

33172

Ph: (305) 424-8001

contact@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

LONGOTON TERRACOTTA
VERTICALLY ORIENTED
RAINSCREEN SYSTEM
(L.M.I. & S.M.I.)

SHILDAN INC.
2047 BRIGGS ROAD
MT. LAUREL, NJ 08054
TEL. (215) 525-4510
FAX. (215) 525-4511

REVISION

No.	DATE	BY	DESCRIPTION

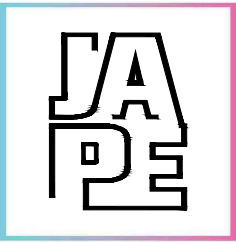
date:	09-20-2023	scale:		drawn by:	M.S.	check by:	H.T.	DRAWING NO.	JA-1687-23
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SEALED: 11-27-2023

INST. DETAIL

SHEET No.
12 OF 13



JAVAD AHMAD PE, inc
8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
contact@ja-pe.com

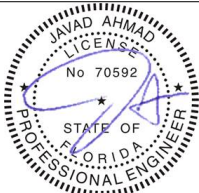
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REVISION			
No.	DATE	BY	DESCRIPTION

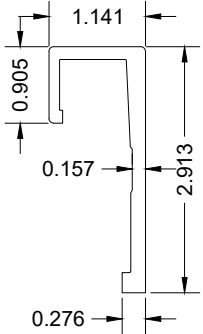
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scale:				
drawn by:		M.S.		
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DRAWING NO.		JA-1687-23		



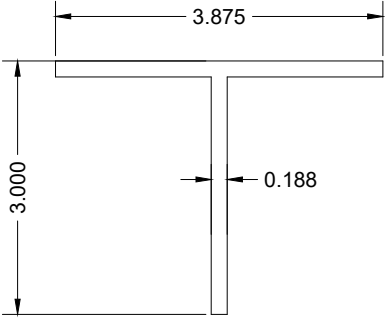
SEALED: 11-27-2023

PROFILES

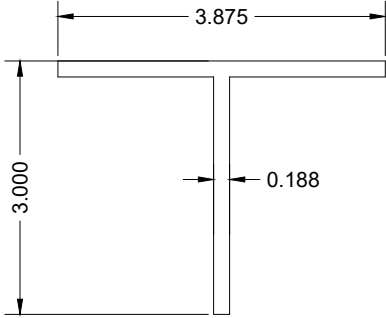
SHEET No.
13 OF 13



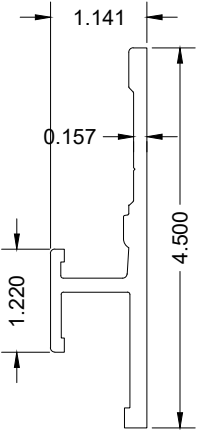
6 TOP TILE CLIP
SCALE = 6" = 1'-0"



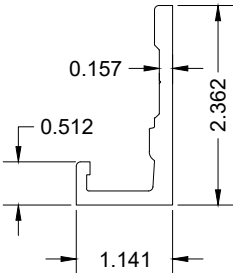
7 CONT. VERT. T-TRACK
SCALE = 6" = 1'-0"



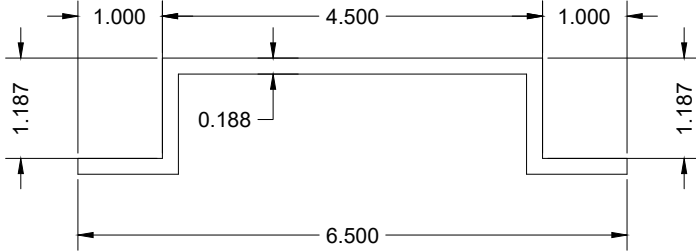
8 T-CLIP CONT. 8" LONG
SCALE = 6" = 1'-0"



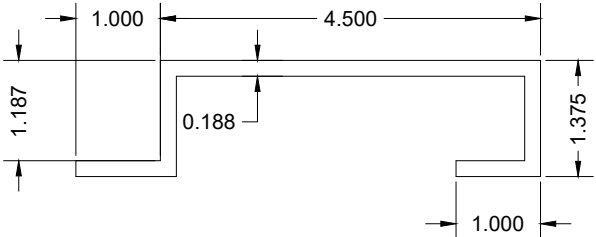
9 MID TILE CLIP
SCALE = 6" = 1'-0"



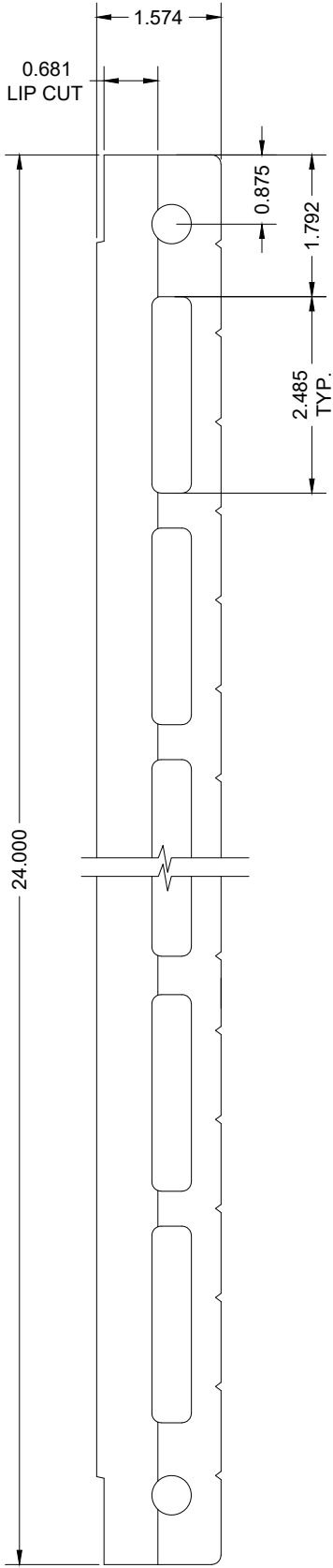
10 BOTTOM TILE CLIP
SCALE = 6" = 1'-0"



11 CONT. HOR. CHANNEL HAT
SCALE = 6" = 1'-0"



12 HOR. C-CHANNEL HAT
SCALE = 6" = 1'-0"



72" H X 24" W (SHOWN)

LONGOTON TERRACOTTA
VERTICAL ORIENTED TILE

5 SCALE = 6" = 1'-0"