

PERSPECTIVE GLASS CO., INC.

MODEL PGC-2" PTAC

ALUMINUM LOUVER SYSTEM

GENERAL NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND TESTED TO COMPLY WITH THE 2020 (7TH EDITION) AND 2023 (8TH EDITION) FLORIDA BUILDING CODE (FBC), INCLUDING THE HVHZ CODE.
- A. TAS 201-94
B. TAS 202-94 (*STRUCTURAL ONLY*)
C. TAS 203-94
- 2) ADEQUACY OF THE EXISTING CONCRETE, ALUMINUM, STRUCTURAL STEEL & METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 3) THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS AS SPECIFIED IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN; A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- 4) THIS ALUMINUM LOUVER SYSTEM IS RATED FOR SMALL & LARGE MISSILE IMPACT RESISTANCE (LEVEL D). HURRICANE SHUTTERS ARE NOT REQUIRED.
- 5) FRAME MATERIAL: 6063-T5 ALUMINUM
- 6) PTAC OPENING FOR VENTILATION, 42-1/4" X 16-1/4", MAY BE LOCATED AT LEFT, RIGHT, OR CENTER WITH OPTIONAL FULL BLANK-OFF PANEL. WHEN LOUVER IS THE SAME SIZE AS THE PTAC UNIT, BLANK-OFF PANEL IS NOT REQUIRED.

INSTALLATION NOTES:

- 1) ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION, AS SHOWN, UNLESS OTHERWISE NOTED.
- 2) THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 3) INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN THE SPECIFICATIONS DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL, (i.e., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- 4) FOR INSTALLATION INTO METAL STUD, USE ONE (1) 1/4"-20 TEK SCREW, (GRADE 2), TYPE INSTALLATION ANCHOR PER LOCATION OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM PENETRATION OF THREE (3) THREADS BEYOND METAL STRUCTURES.
- 5) MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING, BUT NOT LIMITED TO, STUCCO, FOAM, BRICK VENEER, AND SIDING.
- 6) INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION-RESISTANT MATERIAL OR HAVE A CORROSION-RISISTANT COATING.
- 7) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURERS' INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTHS SPECIFIED BY THE ANCHOR MANUFACTURER.
- 8) ALL MATERIALS SHALL MEET MATERIAL PROTECTION AND DISSIMILAR MATERIAL REQUIREMENTS FROM APPLICABLE HVHZ SECTIONS OF THE FLORIDA BUILDING CODE.
- 9) INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- A. ALUMINUM: 6063-T5 MIN., .090 MIN. THICKNESS, & 1/2" MIN. EDGE DISTANCE.
B. STEEL: MIN. TENSILE YIELD STRENGTH OF 36 KSI, ULTIMATE TENSILE YIELD STRENGTH OF 58 KSI, 18 GA. (0.048") MIN., & 1/2" MIN. EDGE DISTANCE.
C. WOOD: #2 SYP. (G=0.55); 1-9/16" MIN. EDGE DISTANCE
D. CONCRETE: 3000 PSI MIN.; 2 1/2" MIN. EDGE DISTANCE

SHEET INDEX:	
SHEET:	DESCRIPTION:
1	COVER SHEET & GENERAL NOTES
2	ELEVATION & ANCHOR LAYOUT
3	VERTICAL / HORIZONTAL SECTIONS & DETAILS
4	VERTICAL / HORIZONTAL SECTIONS & DETAILS
5	ANCHOR CONNECTION DETAILS
6	BILL OF MATERIALS & COMPONENTS

* NOTE:

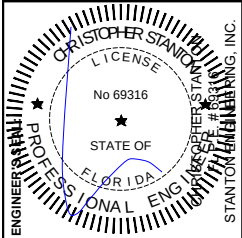
- 1) LOUVER SYSTEM IS TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND LOUVERS IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, OR THE ROOM HOUSING WATER-RESISTANT / WATER-PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- 2) DEFLECTORS ARE TO DIRECT INTAKES AND EXHAUST FOR PTAC INSTALLED IN THE WINDOW SLEEVE BEYOND. THEY HAVE NO EFFECT ON STRUCTURAL INTEGRITY OF LOUVER DESIGN.



MODEL PGC-2" PTAC
ALUMINUM LOUVER SYSTEM

STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES
2701 NORTHWEST BOCA RATON BOULEVARD, SUITE 204
BOCA RATON, FLORIDA 33431 TEL: (561) 393-1003 FAX: (561) 393-1008

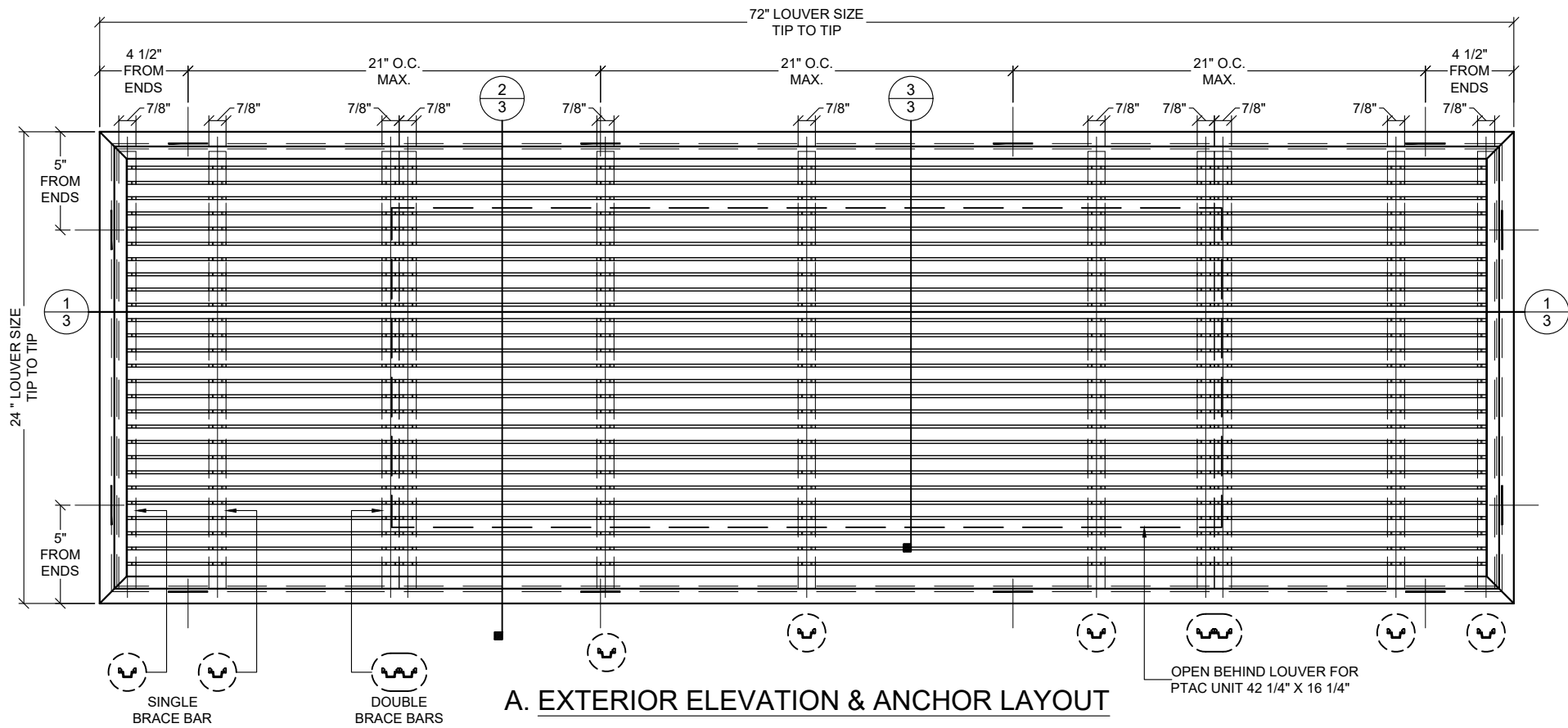
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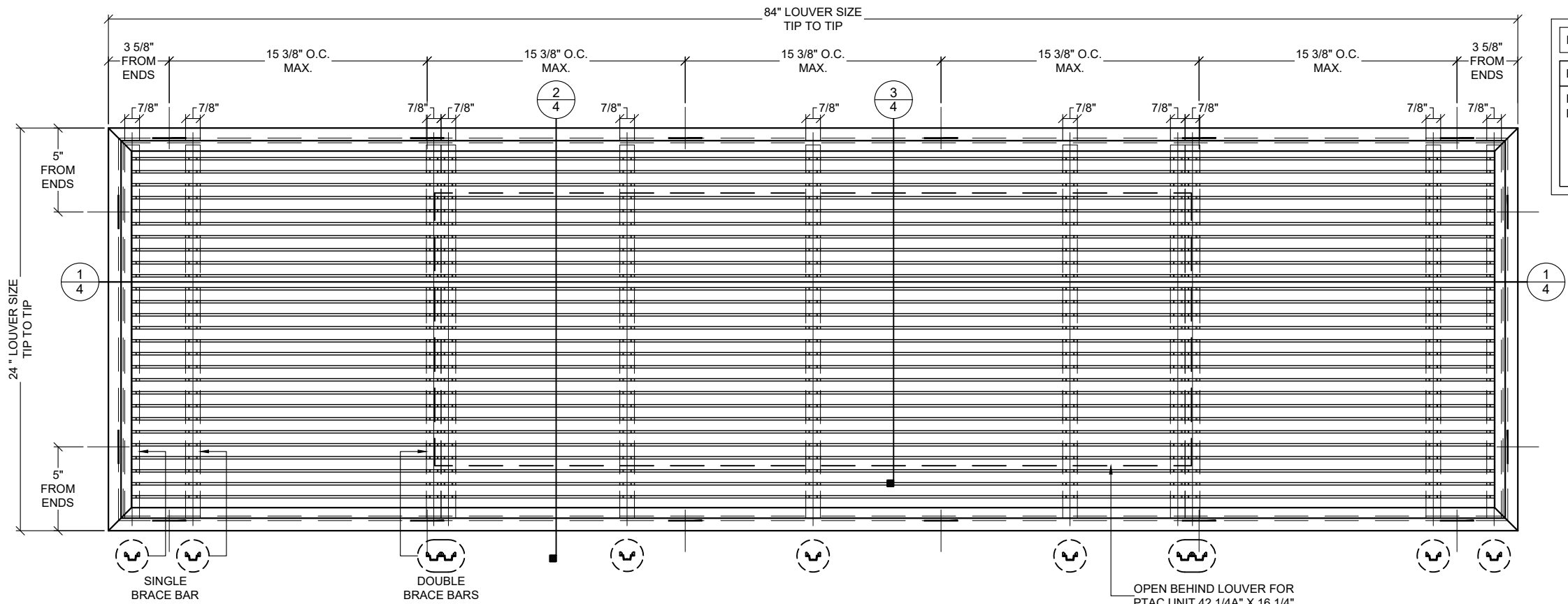
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09/16/20	KJT	CS
SCALE:	N.T.S.	
DESCRIPTION:		
PGC-2" PTAC ALUM. LOUVER SYSTEM		
DWG NO.		
2109A-20		
SHEET:		
1 OF 6		



Digitally signed by
Christopher Stanton
Date: 2024.02.17
11:05:56 -05'00'



A. EXTERIOR ELEVATION & ANCHOR LAYOUT



B. EXTERIOR ELEVATION & ANCHOR LAYOUT

BRACE BAR & SPLINE SPACING:	
PTAC OPENING:	DESCRIPTION (EXTERIOR VIEW):
FULL BLANK-OFF PANEL AND PTAC	ELEVEN (11) TOTAL VERTICAL BRACE BARS & SPLINES PER 72" LOUVER; (1) AT EA. END & AT 6", 15-1/4", 25-3/4", 38-1/4", 50-3/4", 56-3/4" & 66" FROM LEFT EDGE OF UNIT. ** DOUBLE STIFFENERS EA. SIDE OF PTAC UNIT.

MAXIMUM DESIGN PRESSURE RATING:

PRESSURE:	RATING:
-90.0 PSF / +90.0 PSF	LARGE MISSILE IMPACT (LEVEL D)

BRACE BAR & SPLINE SPACING:	
PTAC OPENING:	DESCRIPTION (EXTERIOR VIEW):
FULL BLANK-OFF PANEL AND PTAC	ELEVEN (11) TOTAL VERTICAL BRACE BARS & SPLINES PER 84" LOUVER; (1) AT EA. END & AT 6", 21-1/4", 31-5/8", 44-1/8", 56-3/4", 62-3/4" & 78" FROM LEFT EDGE OF UNIT. ** DOUBLE STIFFENERS EA. SIDE OF PTAC UNIT.

MAXIMUM DESIGN PRESSURE RATING:

PRESSURE:	RATING:
-100.0 PSF / +100.0 PSF	LARGE MISSILE IMPACT (LEVEL D)



750 SW 14TH AVENUE
POMPAHO BEACH, FL 33069
TEL: (954) 773-9714
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TITLE:

DATE:

BY:

REVISIONS



DATE: 09/16/20 DRWN: KJT CHKD: CS

SCALE: N.T.S.

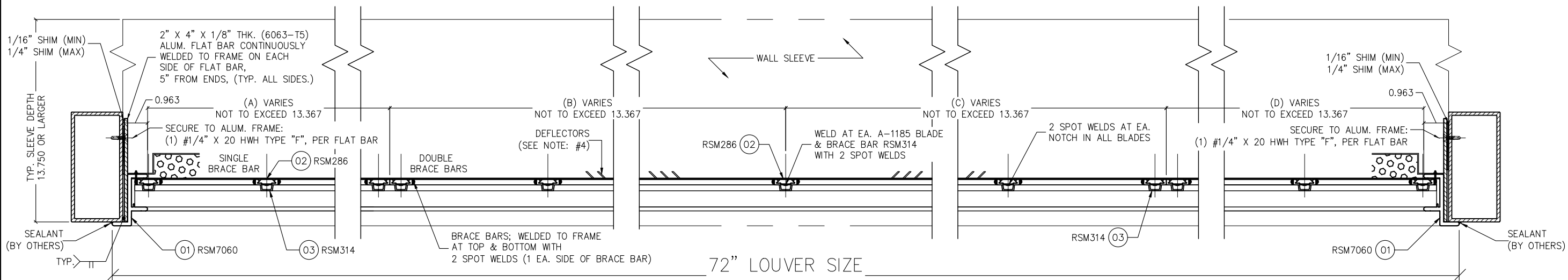
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PGC-2" PTAC
ALUM. LOUVER SYSTEM

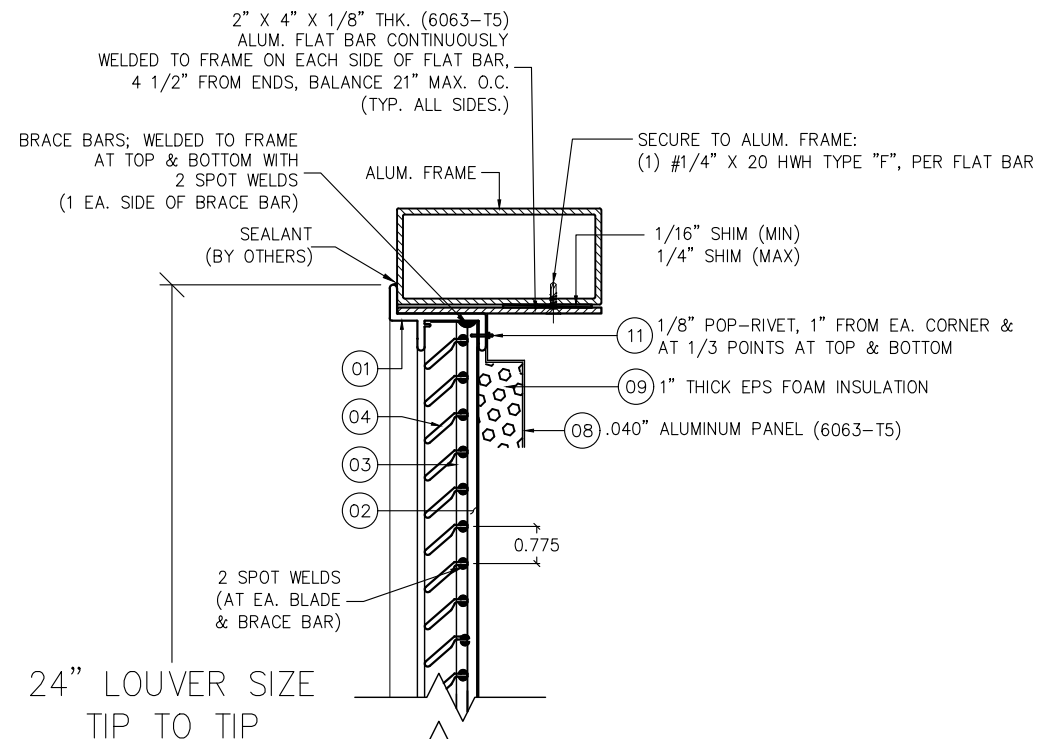
DWG NO.

2109A-20

SHEET: 2 OF 6

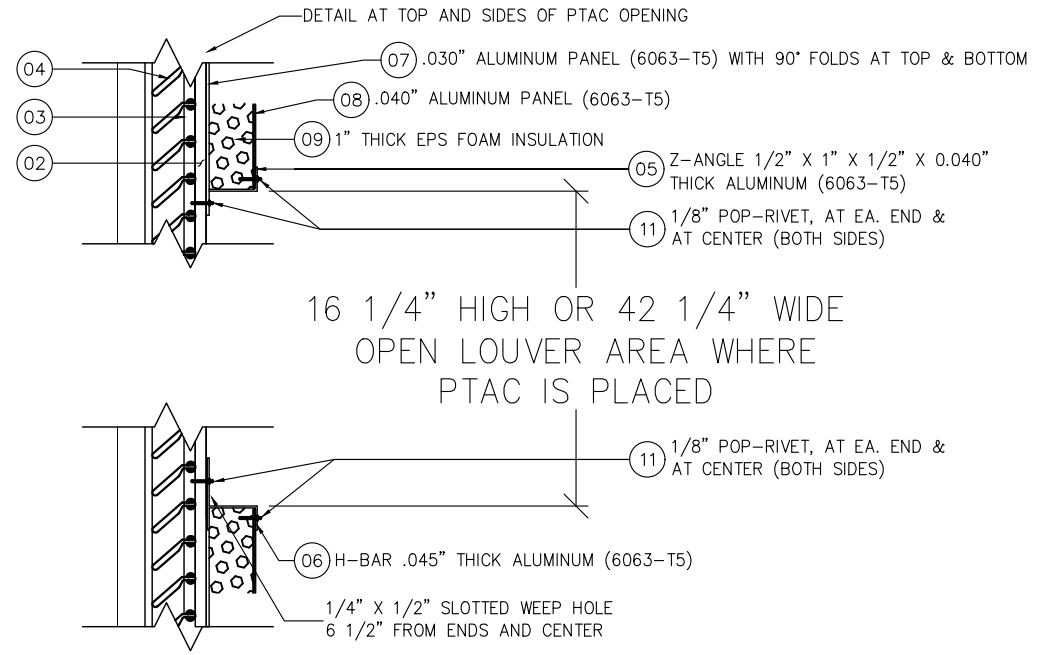


1
3 PLAN VIEW
NOMINAL FRAME LAYOUT

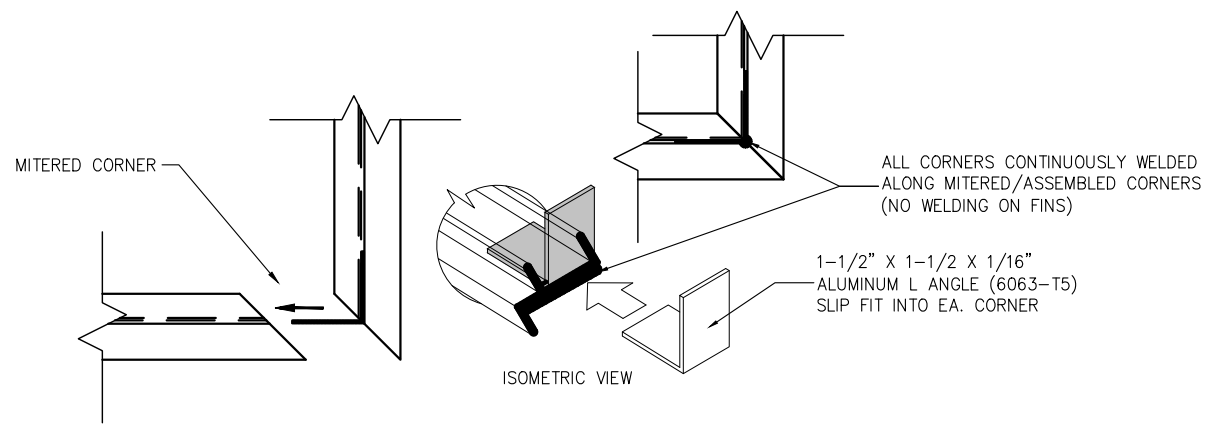


2
3 END VIEW
NOMINAL FRAME LAYOUT

72" LOUVER SIZE
TIP TO TIP



3
3 DETAIL AT BOTTOM OF
PTAC OPENING



4
3 DETAIL AT CORNER CONNECTION

PERSPECTIVE GLASS COMPANY
GLAZING CONTRACTORS
750 SW 14TH AVENUE
POMPAHO BEACH, FL 33069
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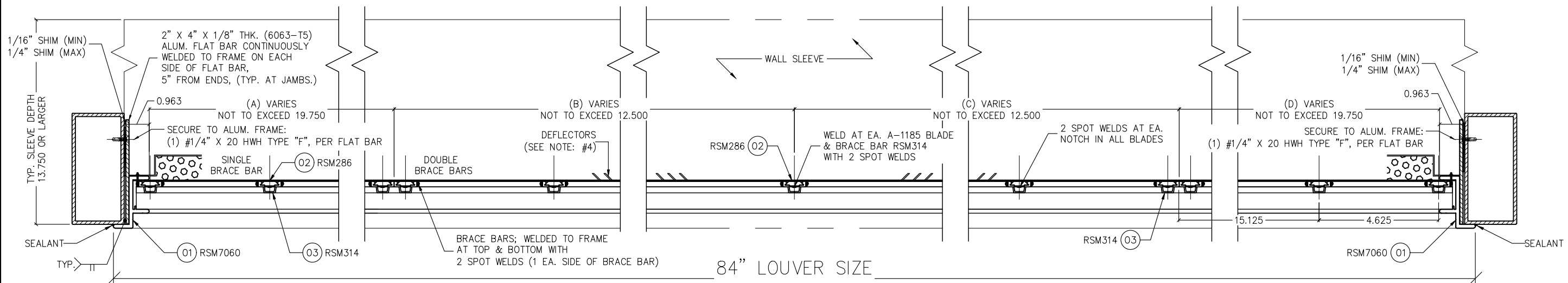
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PREPARED BY: **STANTON ENGINEERING, INC.**
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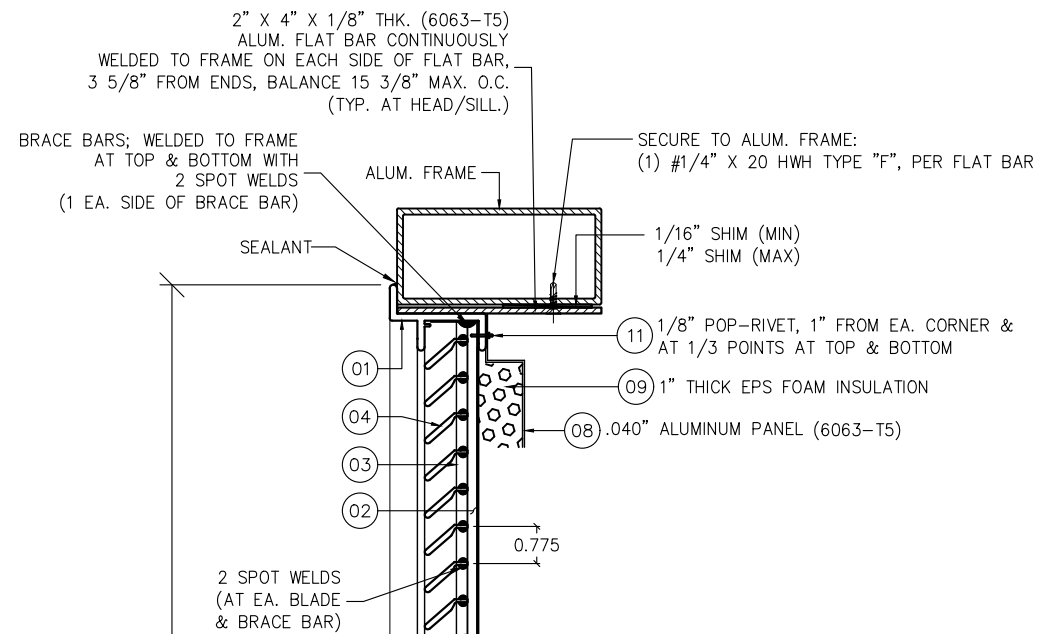
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ALUM. LOUVER SYSTEM
DWG NO. **2109A-20**
SHEET: 3 OF 6

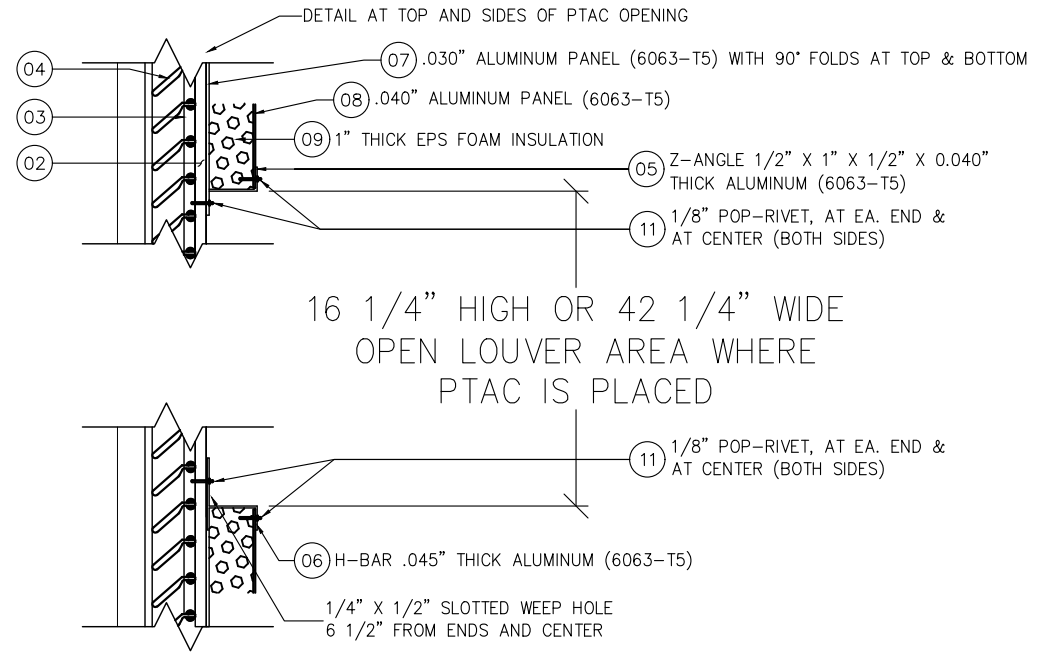
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ALUM. LOUVER SYSTEM
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SHEET: 3 OF 6



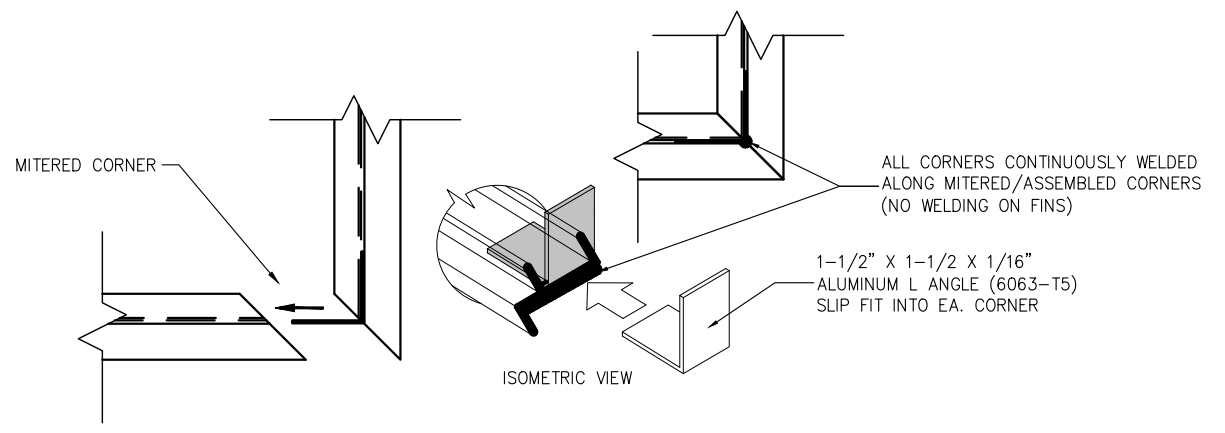
1
4 PLAN VIEW
NOMINAL FRAME LAYOUT



2
4 END VIEW
NOMINAL FRAME LAYOUT



3
4 DETAIL AT BOTTOM OF
PTAC OPENING



4
4 DETAIL AT CORNER CONNECTION

PERSPECTIVE GLASS COMPANY
GLAZING CONTRACTORS

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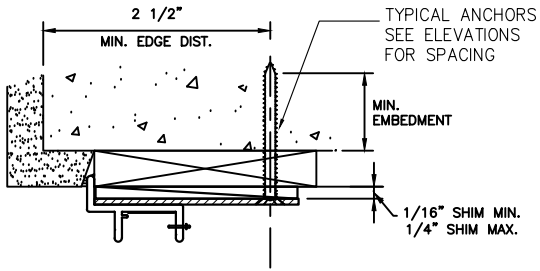
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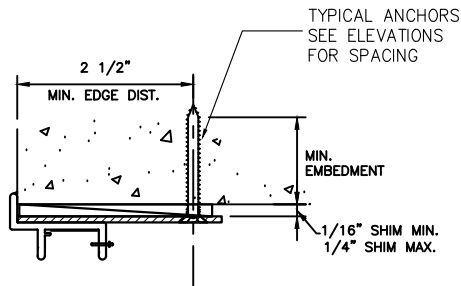
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CHRISTOPHER STANTON
LICENSE
No 69316
STATE OF FLORIDA
PROFESSIONAL ENGINEER
STANTON ENGINEERING, INC.

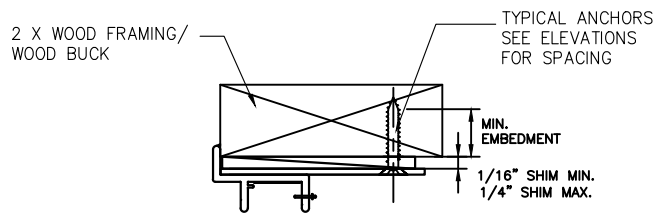
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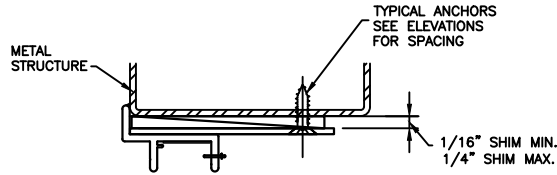
1 CONNECTION DETAIL
TYPE 1



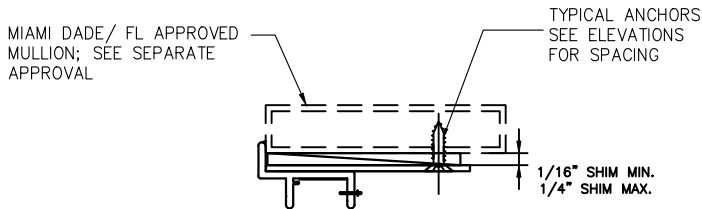
1 ALT CONNECTION DETAIL
ALTERNATE ANCHORAGE
TYPE 1



2 CONNECTION DETAIL
TYPE 2



3 CONNECTION DETAIL
TYPE 3



4 CONNECTION DETAIL
TYPE 4

TYPICAL ANCHORS:
SEE ELEVATIONS FOR SPACING

TYPE 1 – 1/4" TAPCONS
THRU 1BY WOOD BUCKS INTO 3000 PSI MIN.
CONC. 1 1/4" MIN. EMBED. INTO CONC.

DIRECTLY INTO 3000 PSI MIN. CONCRETE
1 1/4" MIN. EMBED. INTO CONC.

TYPE 1A – 1/4" DEWALT ULTRACON+
THRU 1BY WOOD BUCKS INTO 3000 PSI MIN.
CONC. 1 1/4" MIN. EMBED. INTO CONC.

DIRECTLY INTO 3000 PSI MIN. CONCRETE
1 1/4" MIN. EMBED. INTO CONC.

TYPE 2 – 5/16" DEWALT ULTRACON
INTO 2BY WOOD BUCKS OR WOOD SUBSTRATES
1 1/2" MIN. PENETRATION INTO #2 SYP (G=0.55)

TYPE 3 – #14 SMS (MIN. GRADE 2 CRS)
INTO METAL STRUCTURES

METAL STUDS: 16 GA. MIN.
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM: 1/8" MIN. THK. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUM. TO BE
PLATED OR PAINTED)

TYPE 4 – #14 SMS (MIN. GRADE 2 CRS)
INTO APPROVED MULLIONS (1/8" MIN. THK.)
1/4" MAX. SHIM SPACE

TYPICAL EDGE DISTANCE

INTO CONCRETE = 2 1/2" MIN.
INTO WOOD STRUCTURE = 1-9/16" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

NOTE: ALTERNATE LOUVER SYSTEM
ANCHORAGE MAY BE ENGINEERED
ON SITE-SPECIFIC BASIS BY A
FLORIDA-REGISTERED PROFESSIONAL
ENGINEER.

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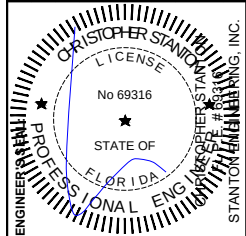
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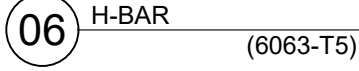
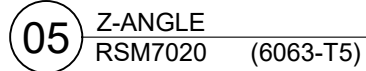
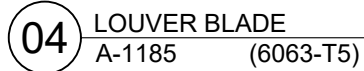
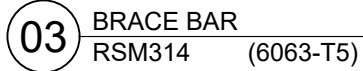
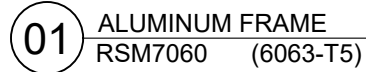
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ALUM. LOUVER SYSTEM

DWG NO.

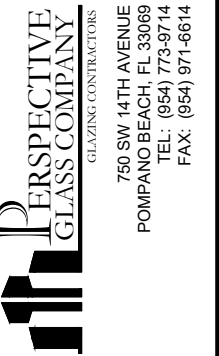
2109A-20

SHEET: 5 OF 6



NOTE:

- 1) THESE LOUVERS ARE TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVERS IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM. ANOTHER ROOM WILL HOUSE WATER-RESISTANT / WATER-PROOF EQUIPMENT COMPONENTS, AND/OR SUPPLIES.
- 2) ALL COMPONENTS ARE ALUMINUM ALLOY 6063-T5.
- 3) DESIGNED PRESSURE RATING: (SEE SHEET 2), LARGE MISSILE IMPACT-RESISTANT, (LEVEL D).
- 4) DEFLECTORS ARE TO DIRECT INTAKE AND EXHAUST FOR P.T.A.C. INSTALLED IN WINDOW SLEEVE BEYOND. THEY MUST HAVE NO EFFECT OF STRUCTURAL INTEGRITY OF THE LOUVER DESIGN.



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ALUMINUM LOUVER SYSTEM

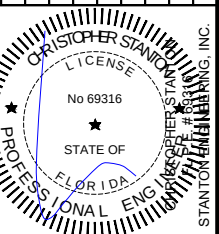
STANTON ENGINEERING, INC.
STRUCTURAL ENGINEERING SERVICES

22701 NUR IHWES I BOCA RATON BOULEVARD, SUITE 204
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DATE:	DATE:	DATE:

16/20	KJT	CS
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SCALE:	N.T.S.
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DESCRIPTION:

DCC 2" DTAC

PGC-2® PTAC

WG NO.	
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2109A-20

HEET: 6 OF 6