

GENERAL NOTES:

1. ROLL-UP SHUTTER 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 ROLL-UP SHUTTER SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/BROWARD COUNTIES).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED FOR A DIRECTIONALITY FACTOR Kd=0.85. USING ASCE 7-22 SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5, 6 & 8 THRU 11.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5, 6 & 8 THRU 11.

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. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH ANSI/AWC NDS-24.

ROLL-UP SHUTTER'S ADEQUACY FOR WIND AND IMPACT (L.M.I.) RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER HURRICANE TESTING LAB. REPORT #0187-0413-99 (ONLY FOR STORM BARS) AND FENESTRATION TESTING LAB REPORTS #6242 AND 6244 (SLAT AND MULLION). AS PER ASTM E 1886, E 1996 AND E 330 STANDARDS, QUALIFYING INSTALLATIONS FOR WIND ZONES 1, 2, 3 & 4, MISSILE TYPE D, APPLICABLE TO BASIC PROTECTION ONLY, INSTALLATIONS AT NON ESSENTIAL FACILITIES AS DEFINED BY ASTM E 1996.

2. ALL ALUMINUM EXTRUSIONS SHALL BE AS INDICATED ON SHEETS 2 & 3.

3. ALL SCREWS SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 AND SECTIONS 2411.3.3.4 & 1711 OF THE FLORIDA BUILDING CODE WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH. ALL S.S TEK SCREWS SHALL BE AS MANUFACTURED BY ITW BUILDEX, INC.

4. BOLTS TO BE ASTM A-307, GALVANIZED OR AISI 304 OR 316 SERIES STAINLESS STEEL WITH 36 ksi MINIMUM YIELD STRENGTH, AND SHALL COMPLY WITH SECTION 1711 OF FLORIDA BUILDING CODE.

5. ANCHORS TO WALL FOR (P) & (Q) SIDE RAILS AND BOX CONNECTION SHALL BE AS FOLLOWS:

(A) TO EXISTING POURED CONCRETE: MIN. f'c = 3192 p.s.i. COMPRESSIVE STRENGTH.

-1/4"Ø 410 S.S TAPCON ANCHORS AS MANUFACTURED BY ITW BUILDEX, INC.

A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4". NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

A.2) MINIMUM EDGE DISTANCE (E.D.) OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 2 1/2". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN SUBSTRATE BEHIND SUCH PANELS. MINIMUM EMBEDMENT SHALL BE AS INDICATED ON NOTE A.1 ABOVE.

(B) TO EXISTING HOLLOW BLOCK WALL: ASTM C-90

-1/4"Ø 410 S.S TAPCON ANCHORS, AS MANUFACTURED BY ITW BUILDEX, INC.

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, INTO THE HOLLOW BLOCK UNIT SHALL BE 1 1/4". NO EMBEDMENT INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED EMBEDMENT.

B.2) MINIMUM EDGE DISTANCE (E.D.) OF 1/4" TAPCON ANCHORS INTO HOLLOW BLOCK SHALL BE 2 1/2". EDGE DISTANCE IS BEYOND ANY FINISH MATERIAL.

B.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN SUBSTRATE BEHIND SUCH PANELS. MINIMUM EMBEDMENT SHALL BE AS INDICATED ON NOTE B.1 ABOVE.

(C) TO EXISTING WOOD FRAME BUILDING: SOUTHERN PINE #2 W/ G=0.55 MIN.

- 1/4"Ø 410 S.S TAPCON, ITW BUILDEX

NOTES:

C.1) MINIMUM THREADED PENETRATION OF TAPCON ANCHORS INTO THE WOOD FRAME UNIT SHALL BE 1 1/2" NO THREADED PENETRATION INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED THREADED PENETRATION.

C.2) MINIMUM EDGE DISTANCE OF TAPCON ANCHORS INTO WOOD SHALL BE AS INDICATED ON SHEET 9.

C.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN SUBSTRATE BEHIND SUCH PANELS. MINIMUM THREADED PENETRATION SHALL BE AS INDICATED ON NOTE C.1 ABOVE.

6. ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. ANCHORS REQUIRED FOR STORM BARS, HEADERS & MULLION TO CONCRETE SHALL BE AS SPECIFIED ON APPLICABLE SECTIONS SHOWN ON SHEETS 5, 6, 7 & 8 OF 11 RESPECTIVELY.

-410 SS WEDGE BOLT ANCHORS TO BE AS MANUFACTURED BY DEWALT, INC.
-CALK-IN ANCHORS TO BE AS MANUFACTURED BY DEWALT, INC.

MINIMUM EDGE DISTANCE AND SPACING FOR ABOVE MENTIONED ANCHORS SHALL BE AS INDICATED BELOW OR AT ABOVE MENTIONED SHEETS. EDGE DISTANCE AND EMBEDMENTS ARE BEYOND ANY FINISH MATERIAL.

ANCHOR	SPACING @ 100%	EDGE DISTANCE @ 100%	EMBEDMENT	
			CONCRETE	CONCRETE BLOCK
3/8"Ø 410 SS WEDGE-BOLT	4 1/2"	4 1/2"	2 1/2" (3000 psi.)	-
1/2"Ø 410 SS WEDGE-BOLT	6"	6"	3" (3000 psi.)	-
1/4"Ø CALK-IN	2 1/2"	3"	7/8" (3000 psi.)	-
3/8"Ø CALK-IN	3 3/4"	4 1/2"	1 1/4" (2899 psi.)	-
1/4"Ø 410 S.S TAPCON	3"	3"	2 3/8" (3192 psi)	1 1/4" (ASTM C-90 GROUTED FILLED)
3/8"Ø KWIK BOLT 3	4"	4"	2 3/8"	1 3/4" (ASTM C-90, GROUT FILLED)

8. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, CONCRETE BLOCK OR WOOD FRAME BUILDINGS.

10. ROLL-UP SHUTTERS INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

11. ROLL-UP MECHANISM IS NOT PART OF THIS APPROVAL.

12. (a) THIS 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) THE CONTRACTOR IS 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.

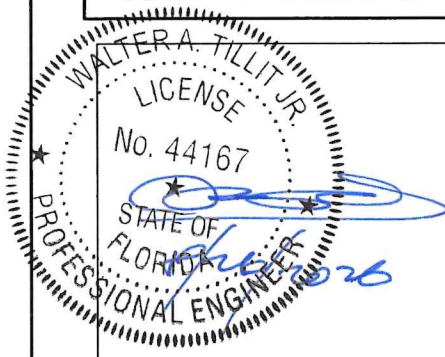
(c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE-SPECIFIC PROJECTS SHALL BE PREPARED BY A REGISTERED ENGINEER OR ARCHITECT WHO 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 THE 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 WHO PREPARED IT.

13. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE ROLL-UP SHUTTER IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

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



P.E. SEAL/SIGNATURE/DATE

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WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

RLL 55-X SLAT NON END RETENTION
ROLL-UP SHUTTER

W.H.
DRAWN BY

ROLLAC SHUTTER OF TEXAS, INC.

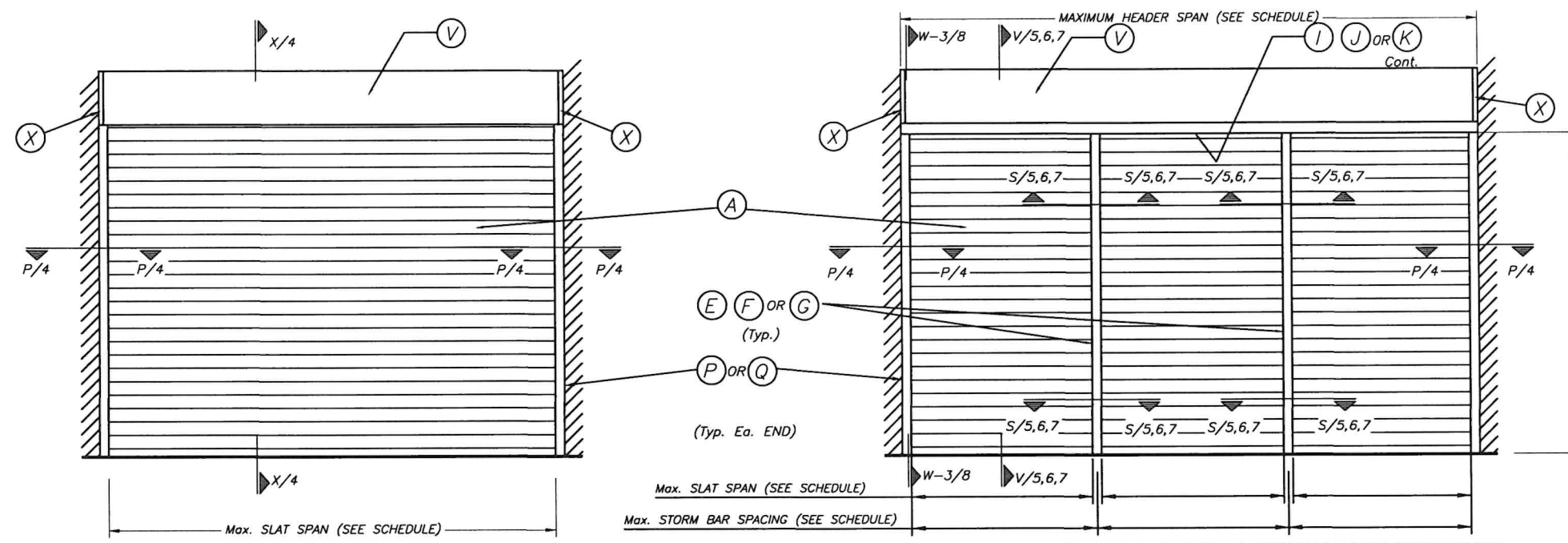
5331 ORANGE STREET
PEARLAND, TX 77581
PH:(800) 880-0922, FAX:(281) 485-0839

06/25/2026
DATE

26-074
DRAWING N°

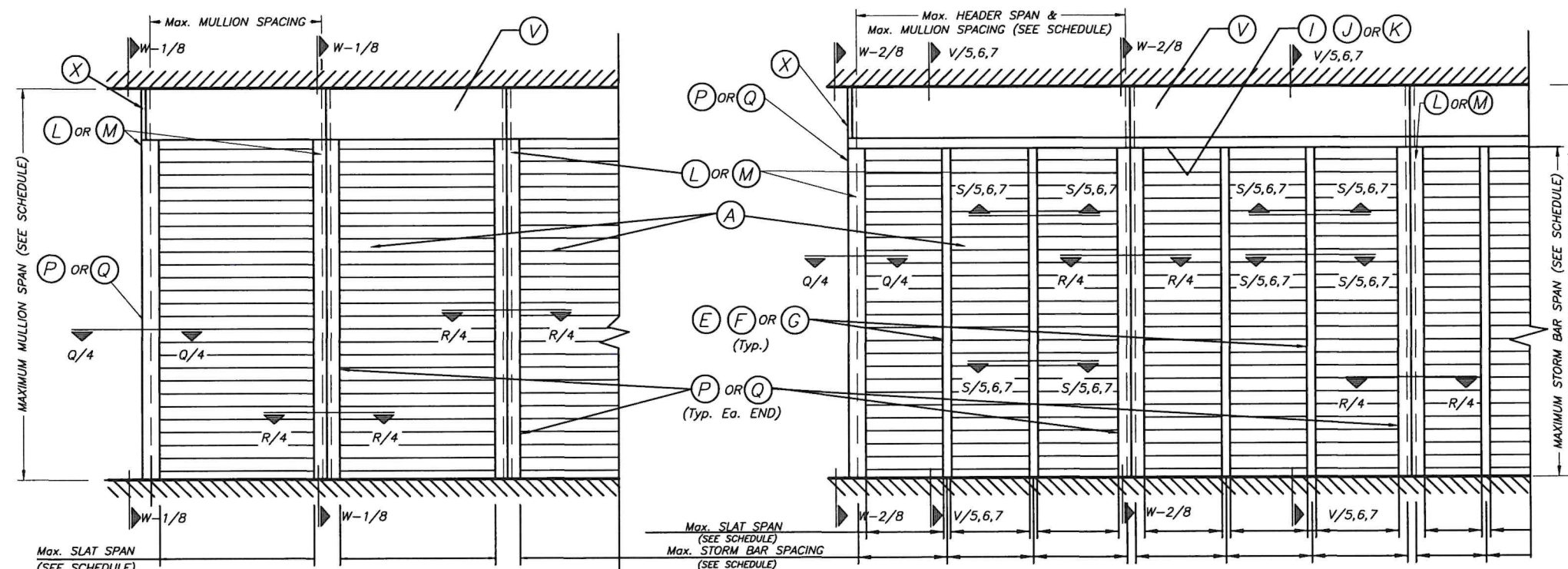
REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

SHEET 1 OF 11



TYPICAL SINGLE UNIT ELEVATION (NO STORM BARS REQUIRED)
 NOTE: SEE SHEET 2 & 3 OF 11 FOR COMPONENTS NOMENCLATURE.

TYPICAL MULTIPLE UNIT ELEVATION (STORM BARS REQUIRED)
 NOTE: SEE SHEET 2 & 3 OF 11 FOR COMPONENTS NOMENCLATURE.



TYPICAL CONSECUTIVE SINGLE UNIT ELEVATION (NO STORM BARS REQUIRED)
 NOTE: SEE SHEET 2 & 3 OF 11 FOR COMPONENTS NOMENCLATURE.

TYPICAL CONSECUTIVE MULTIPLE UNIT ELEVATION (STORM BARS REQUIRED)
 NOTE: SEE SHEET 2 & 3 OF 11 FOR COMPONENTS NOMENCLATURE.

WALTER A. TILLIT JR.
 LICENSE
 No. 44167
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 P.E. SEAL/SIGNATURE/DATE

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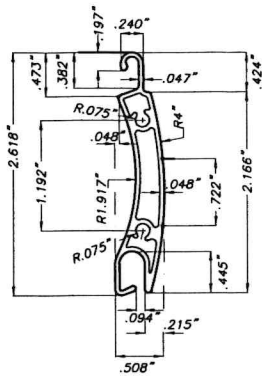
RLL 55-X SLAT NON END RETENTION ROLL-UP SHUTTER

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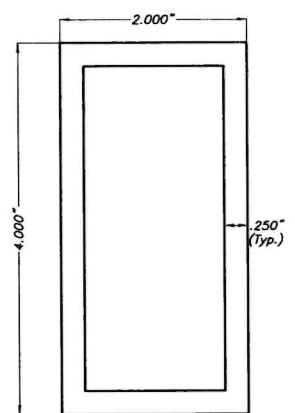
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 06/25/2026 DATE
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2			4		

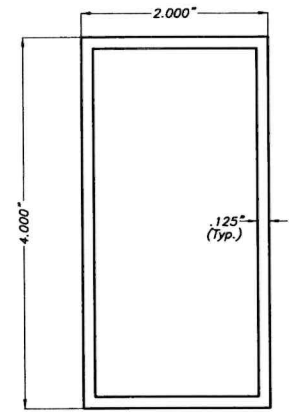
SHEET 1A OF 11



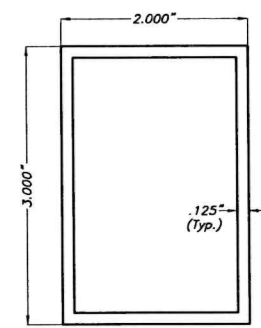
A SLAT
RLL 55-X SLAT
6061-T6 OR 6005-T5 ALUM. ALLOY



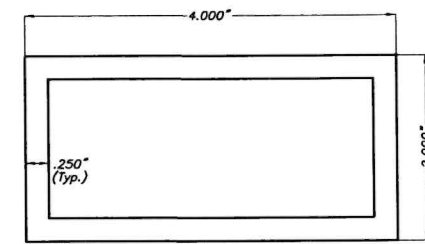
E TYPE 1 STORM BAR:
4" HEAVY EXTRUDED STORM BAR
6063-T6 ALUMINUM ALLOY



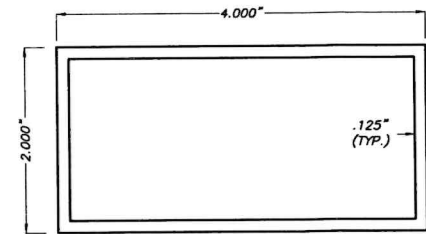
F TYPE 2 STORM BAR:
4" EXTRUDED STORM BARS
6063-T6 ALUMINUM ALLOY



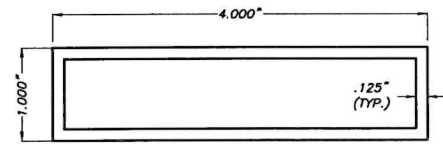
G TYPE 3 STORM BAR:
3" EXTRUDED STORM BARS
6063-T6 ALUMINUM ALLOY



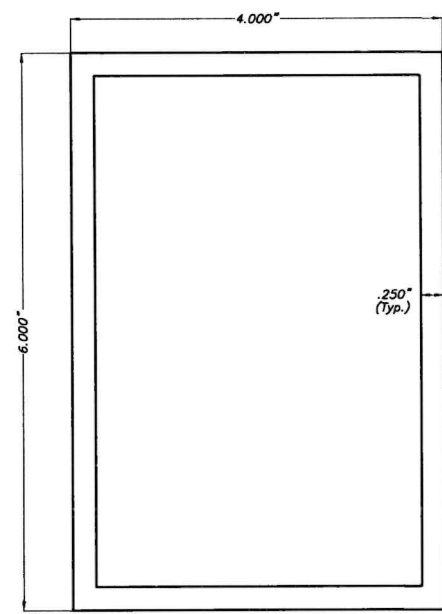
I TYPE 1 HEADER:
4" HEAVY EXTRUDED HEADER
6063-T6 ALUMINUM ALLOY



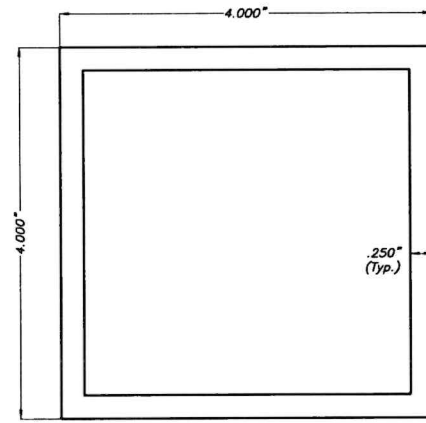
J TYPE 2 HEADER:
4" EXTRUDED HEADER
6063-T6 ALUMINUM ALLOY



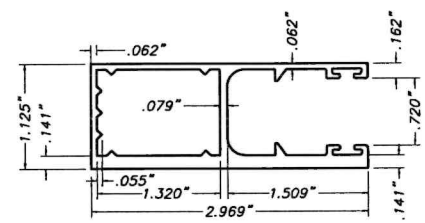
K TYPE 3 HEADER:
1"x4" EXTRUDED HEADER
6063-T6 ALUMINUM ALLOY



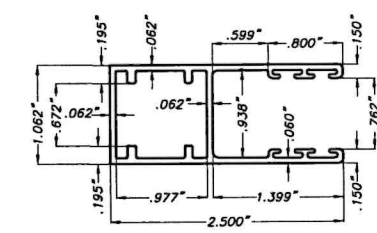
L TYPE 1 MULLION:
6" EXTRUDED MULLION
6063-T6 ALUMINUM ALLOY



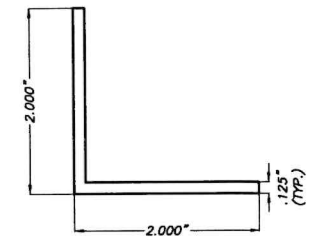
M TYPE 2 MULLION:
4" EXTRUDED MULLION
6063-T6 ALUMINUM ALLOY



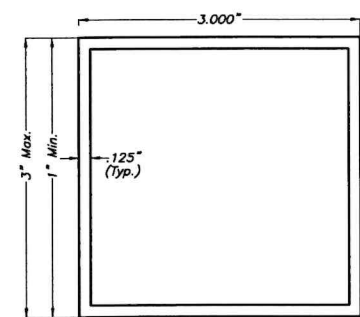
P TYPE 1 SIDE RAIL
RLL-40 SIDE RAIL
6063-T5 ALUM. ALLOY



Q TYPE 2 SIDE RAIL
RLL-1 SIDE RAIL
6063-T5 ALUM. ALLOY



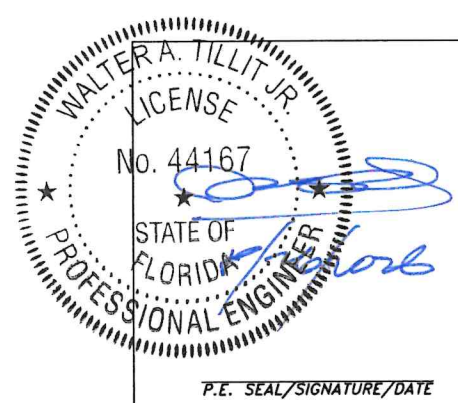
S INSIDE MOUNT ALUM. ANGLE:
EXTRUDED ALUMINUM
6063-T6 ALUMINUM ALLOY



Y BUILD-OUT TUBES
3"x3" EXTRUDED TUBE
6063-T5 ALUMINUM ALLOY

COMPONENTS

SCALE: 1/2" = 1"



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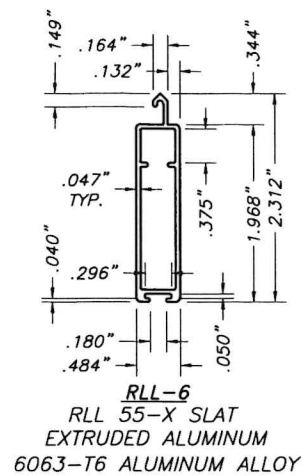
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SHEET 2 OF 11		

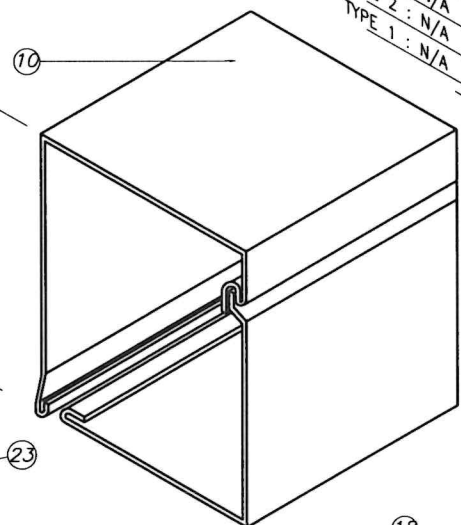
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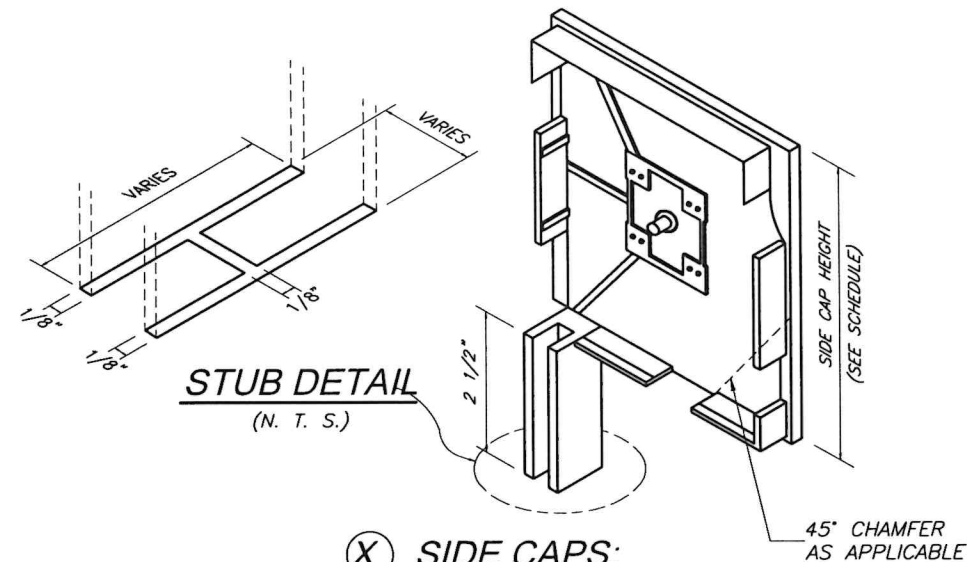
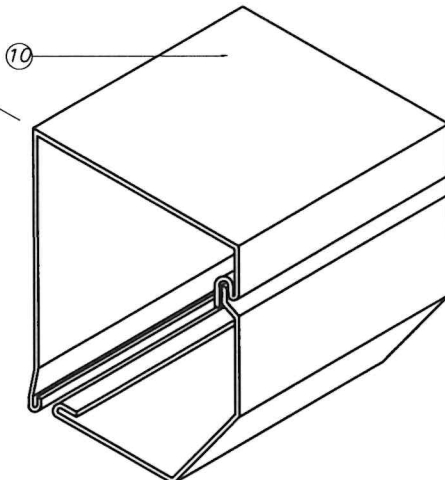
14 DETAILS

TYPE 10 : N/A
TYPE 9 : 10"
TYPE 8 : 9"
TYPE 7 : 8"
TYPE 6 : 7"
TYPE 5 : 6.5"
TYPE 4 : 6"
TYPE 3 : 5.5"
TYPE 2 : 5"
TYPE 1 : 4"

TYPE 10 : 12"
TYPE 9 : 10"
TYPE 8 : 9"
TYPE 7 : 8"
TYPE 6 : 7"
TYPE 5 : 6.5"
TYPE 4 : 6"
TYPE 3 : N/A
TYPE 2 : N/A
TYPE 1 : N/A



RV 45& RV 45/S HOUSINGS



COMPONENTS FOR GEAR OPERATED SYSTEM

- 1 - GEAR
- 2 - UNIVERSAL & CRANK
- 3 - CRANK HOLDER(OPTIONAL)
- 4 - GEAR INSERT(GEAR TO AXLE CONNECTOR)
- 5 - IDLER INSERT
- 6 - BALL BEARING
- 7 - OCTAGONAL AXLE *
- 8 - ENTRY GUIDES (ONLY FOR A-150-H SLAT)
- 9 - SIDE/END CAP *
- 10 - HOUSING(FRONT & BOTTOM), 0.040" THICK
- 11 - SIDE RAIL
- 12 - PLUG-BOTTOMS
- 13 - ALUMINUM SLATS W/PLASTIC SLAT LOCKS @ EVERY OTHER SLAT W/ (2) #4x1" F.H. S.M.S.
- 14 - BASE SLAT
- 18 - SPRINGLOCK HANGER
- 19 - SAFETY PLATES

SIDE CAP HEIGHT SCHEDULE		
TYPE	90"	45"
1	4.0"	N/A
2	5.0"	N/A
3	5.5"	N/A
4	6.0"	6.0"
5	6.5"	6.5"
6	7.0"	7.0"
7	8.0"	8.0"
8	9.0"	9.0"
9	10.0"	10.0"
10	N/A	12.0"

N/A = NOT APPLICABLE

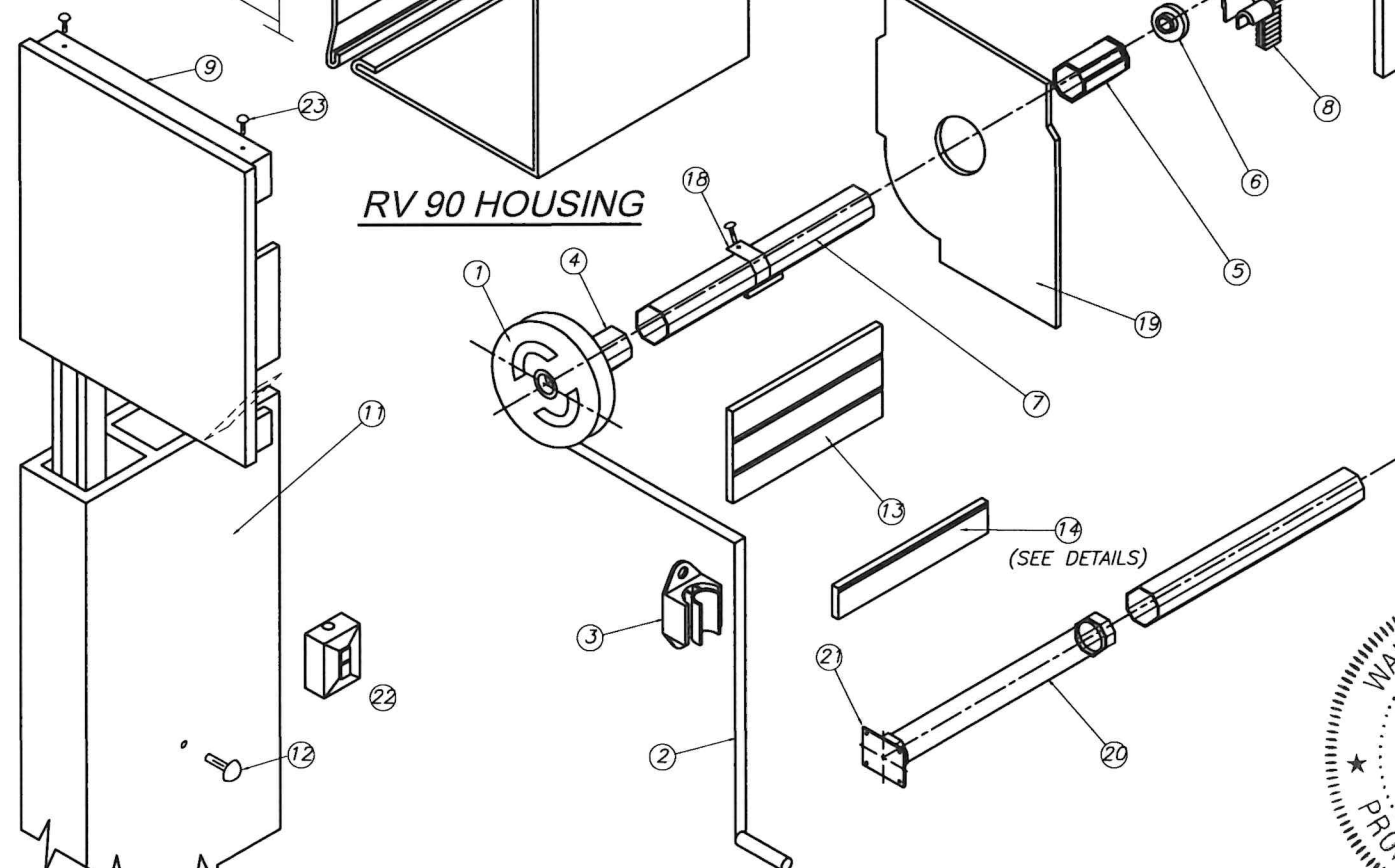
ADDITIONAL COMPONENTS FOR MOTORIZED OPERATED SYSTEM

- 20 - TUBULAR MOTOR
- 21 - MOTOR BRACKET
- 22 - SWITCH

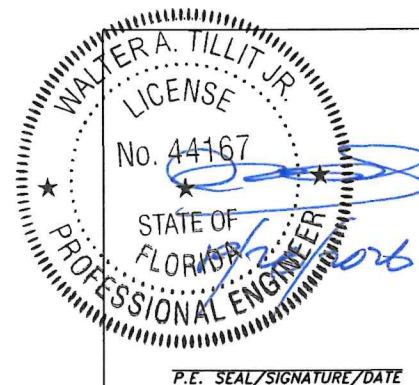
* SHALL BE CAPABLE TO SUSTAIN SLAT'S WEIGHT AND ASSURE LIFTING MECHANISM (SEE NOTE 11/1).

FASTENERS

- 23 - 3/16" ALUMINUM POP RIVETS (6 REQ'D EA. SIDE CAP) : 2 @ TOP, 2 @ REAR, 2 @ BOTTOM



V BOX COMPONENTS AND ASSEMBLY DETAIL (SEE NOTE 11 ON SHEET 1)



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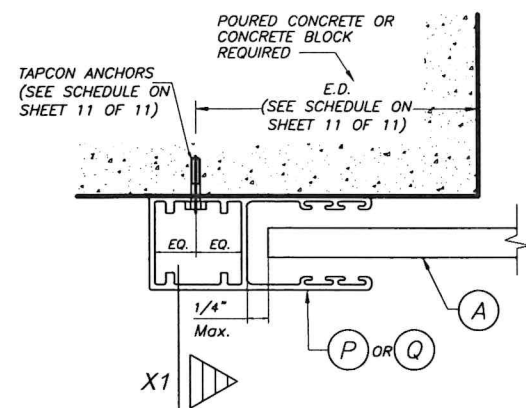
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2			4		

W.H.
DRAWN BY

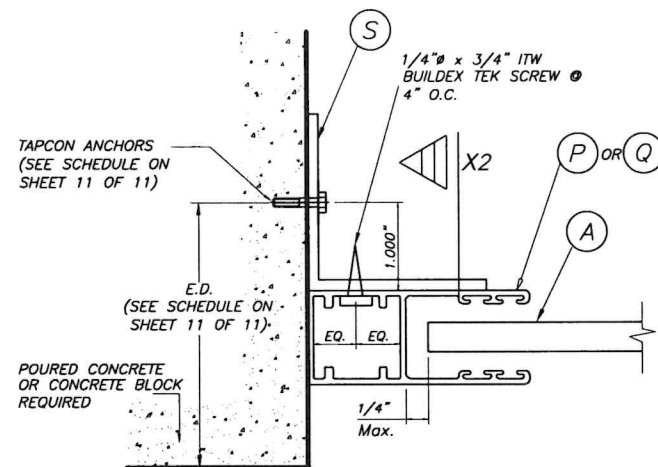
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DATE

26-074
DRAWING N°

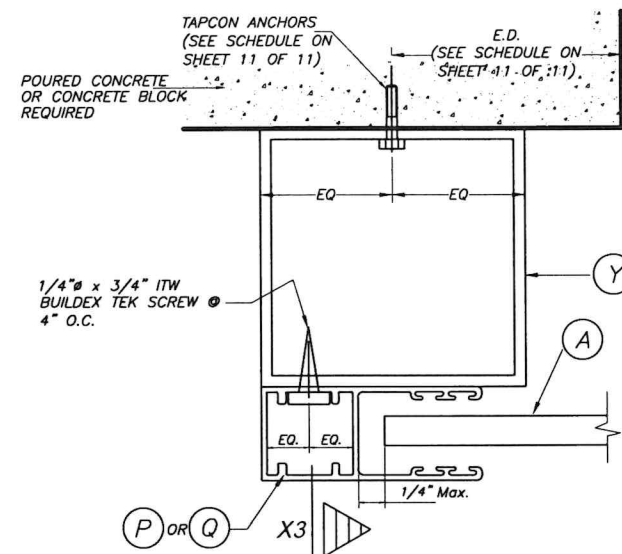
SHEET 3 OF 11



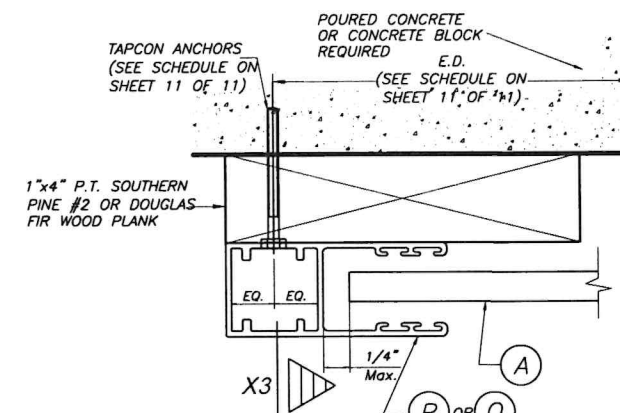
SECTION P - P (1) : WALL MOUNT
N.T.S.



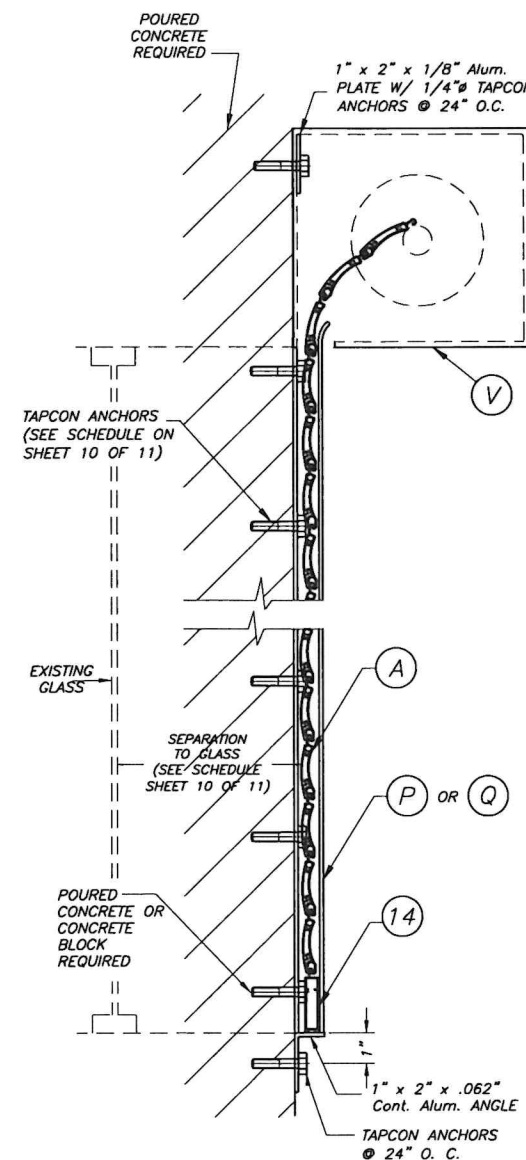
SECTION P - P (2) : SIDE WALL MOUNT
N.T.S.



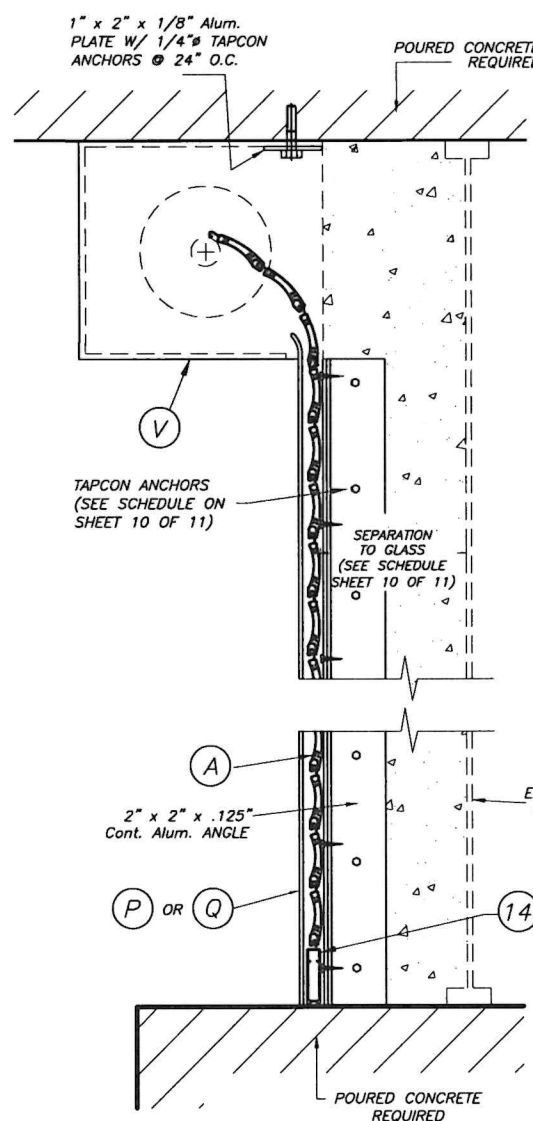
SECTION P - P (3) : BUILD-OUT
N.T.S.



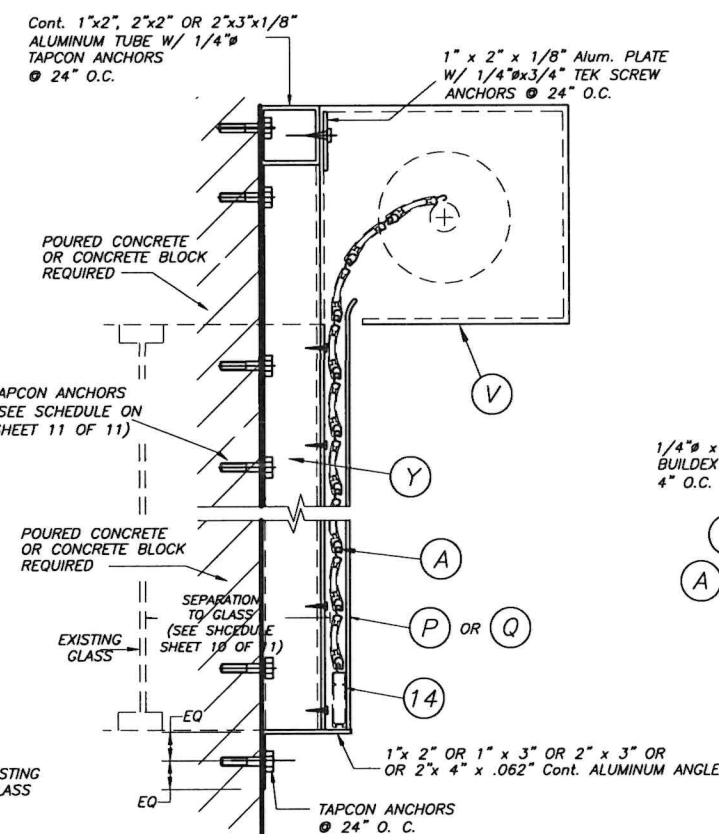
SECTION P - P (3) : B.O. (OPTION)
N.T.S.



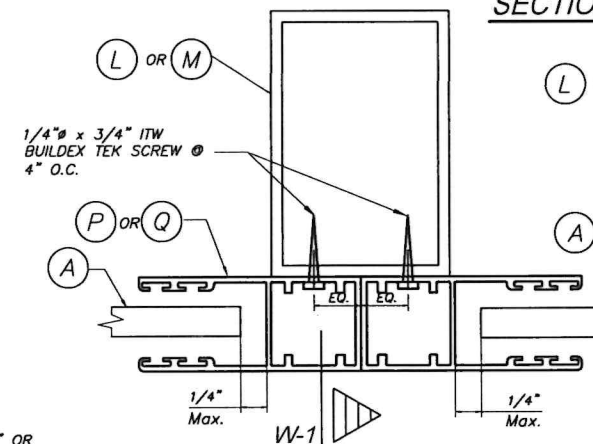
SECTION X - X (1)
N. T. S.



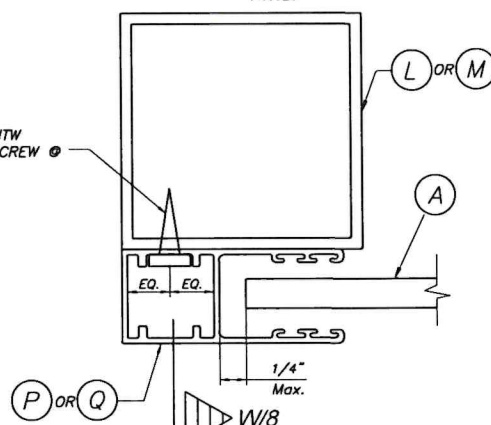
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N. T. S.



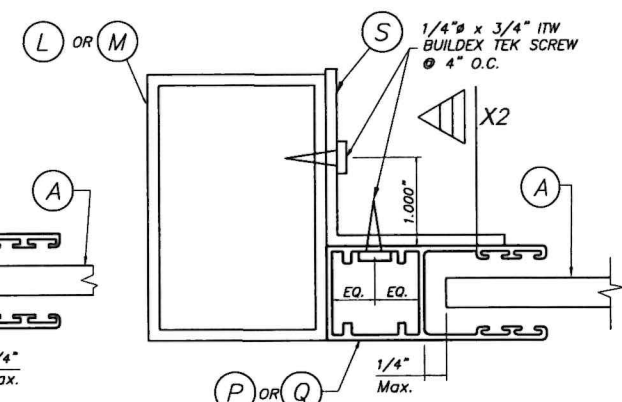
SECTION X - X (3)
N. T. S.



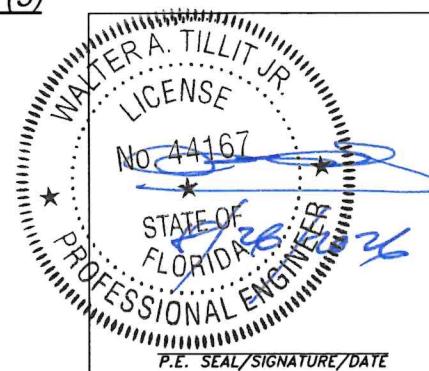
SECTION R - R : MULLION MOUNT
N.T.S.



SECTION Q - Q : MULLION MOUNT
N.T.S.



SECTION R - R : MULLION MOUNT
N.T.S.



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CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

RLL 55-X SLAT NON END RETENTION
ROLL-UP SHUTTER

ROLLAC SHUTTER OF TEXAS, INC.

5331 ORANGE STREET
PEARLAND, TX 77581
PH: (800) 880-0922, FAX: (281) 485-0839

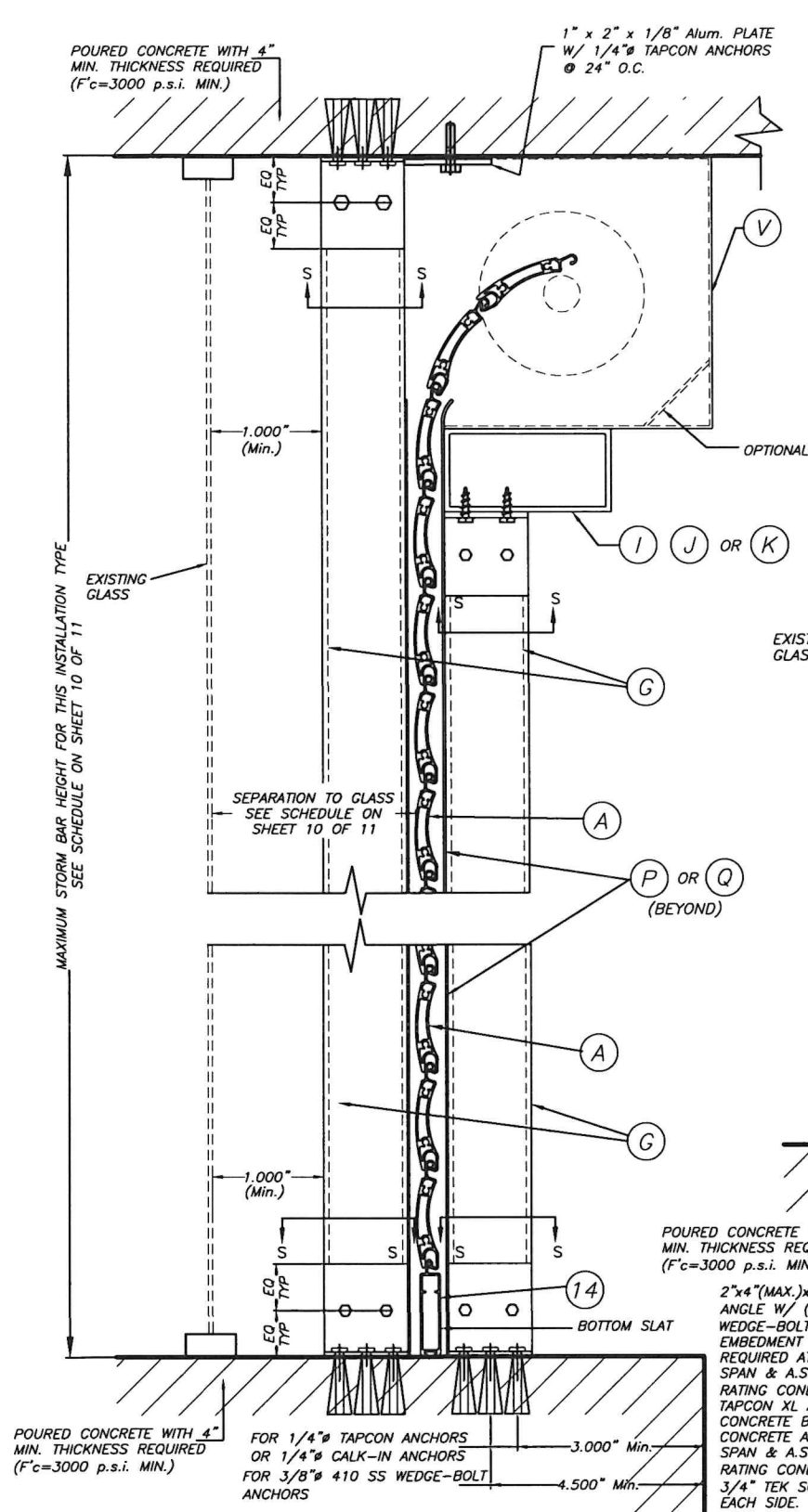
W.H.
DRAWN BY

06/25/2026
DATE

26-074
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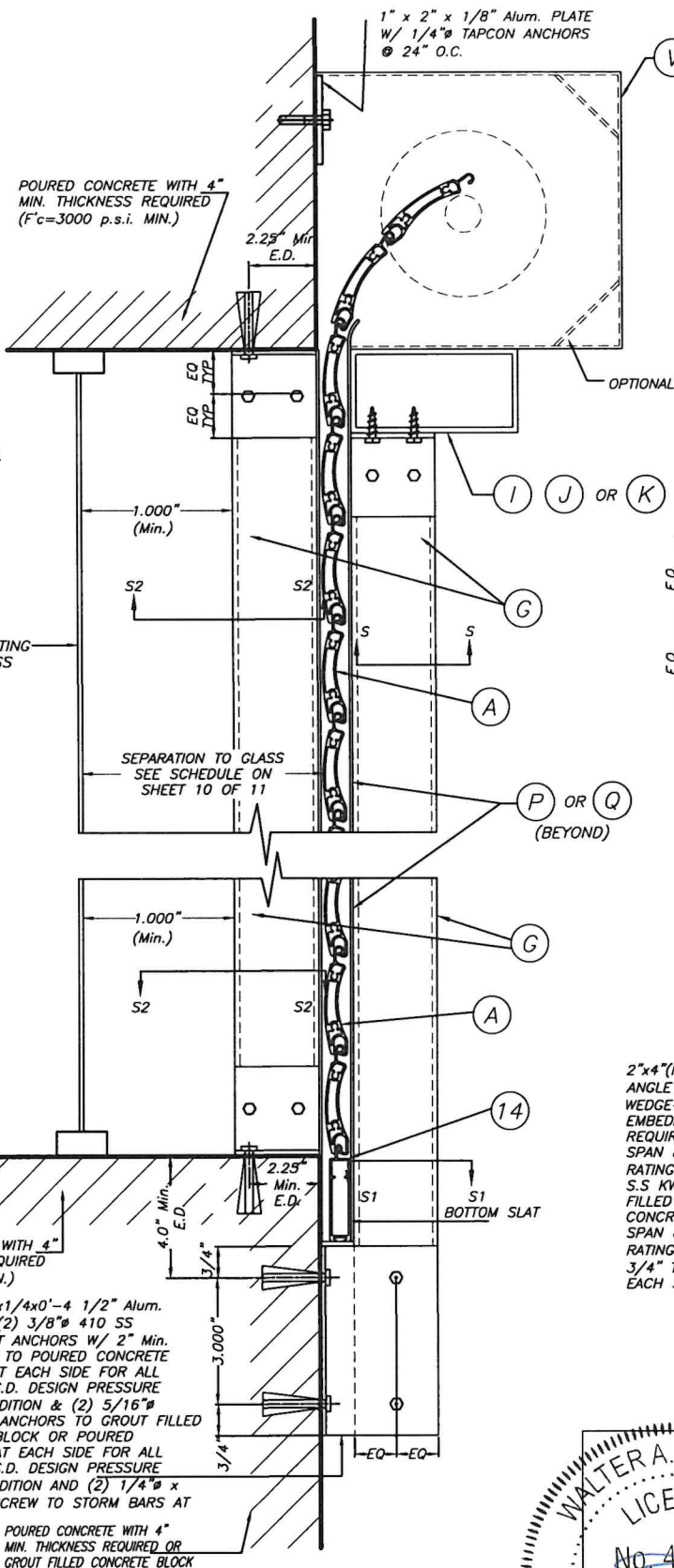
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1	OLD 25-053	06/25/26	3		
2			4		

SHEET 4 OF 11



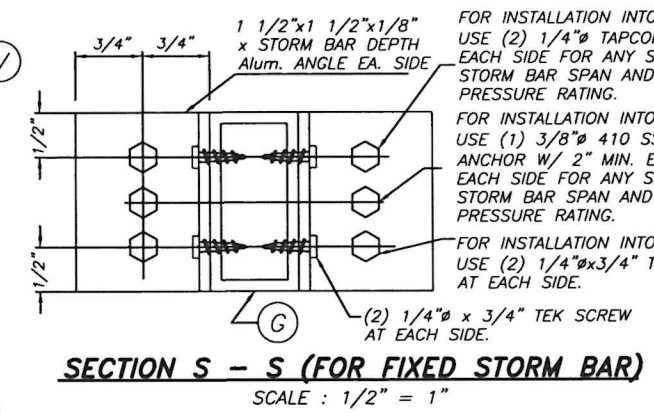
CEILING & FLOOR MOUNTING: SECTION V-V(2) INSTALLATION W/ FIXED OR REMOVABLE STORM BARS W/CONCRETE ANCHORS
(SEE SECTION "S" FOR ANCHOR TYPE REQUIREMENT)

N.T.S.
SINGLE SPAN SECTIONS AND DETAILS ARE SIMILAR TO ABOVE SHOWN WITHOUT STORM BAR & HEADERS.

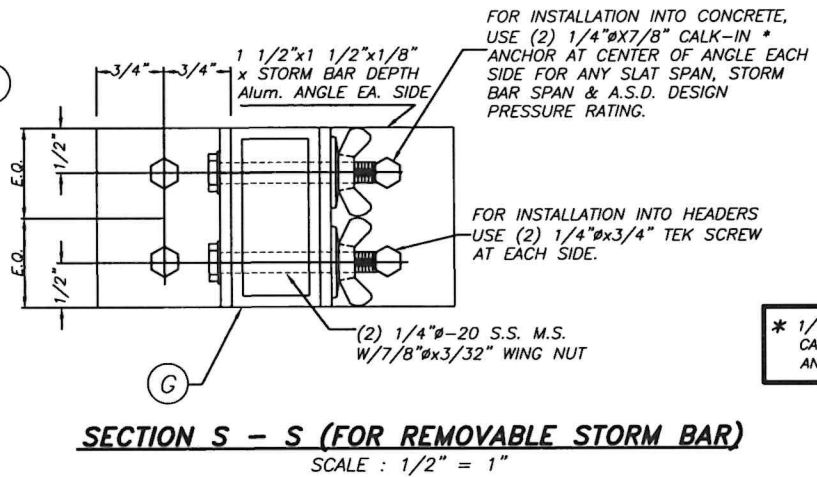


WALL MOUNTING: SECTION V-V(1) INSTALLATION W/ FIXED STORM BARS W/CONCRETE ANCHORS
N.T.S.

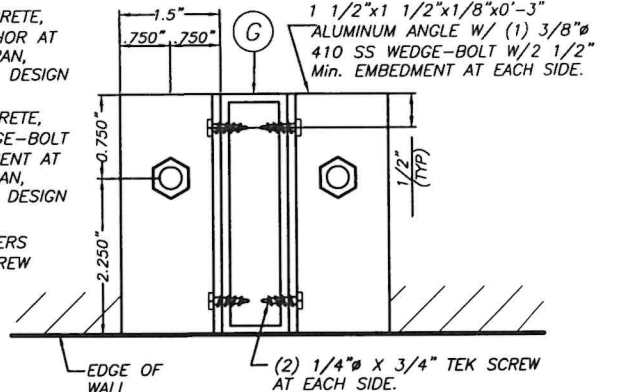
SECTION V - V



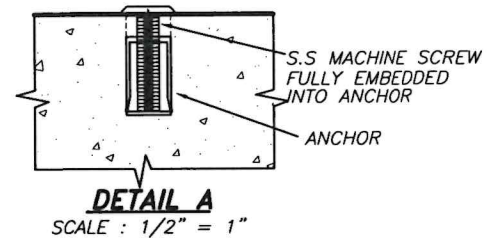
SECTION S - S (FOR FIXED STORM BAR)
SCALE : 1/2" = 1"



SECTION S - S (FOR REMOVABLE STORM BAR)
SCALE : 1/2" = 1"

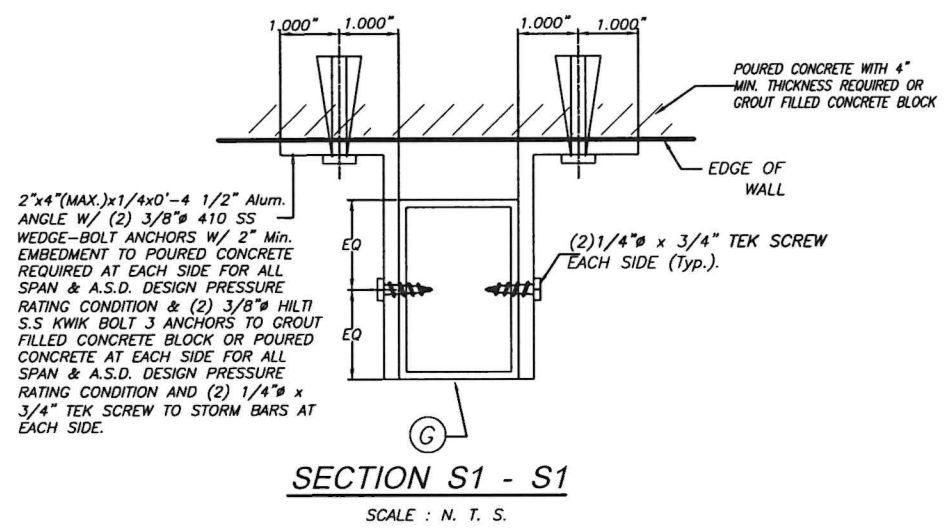


SECTION S2 - S2
SCALE : 1/4" = 1"

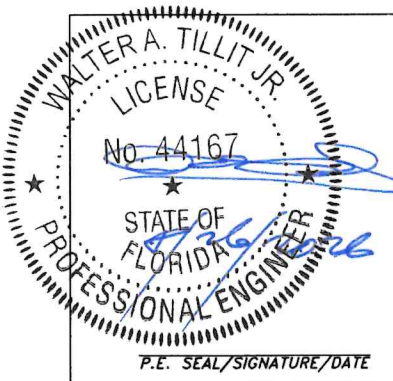


DETAIL A
SCALE : 1/2" = 1"

* 1/4"-20 S.S MACHINE SCREWS USED JOINTLY W/ 1/4"x7/8" CALK-IN ANCHORS RESPECTIVELY SHALL BE LEFT TOGETHER W/ ANCHORS AT THE TIME STORM BARS ARE REMOVED. (SEE DET. A).



SECTION S1 - S1
SCALE : N. T. S.



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RLL 55-X SLAT NON END RETENTION ROLL-UP SHUTTER

ROLLAC SHUTTER OF TEXAS, INC.

5331 ORANGE STREET
PEARLAND, TX 77581
PH: (800) 880-0922, FAX: (281) 485-0839

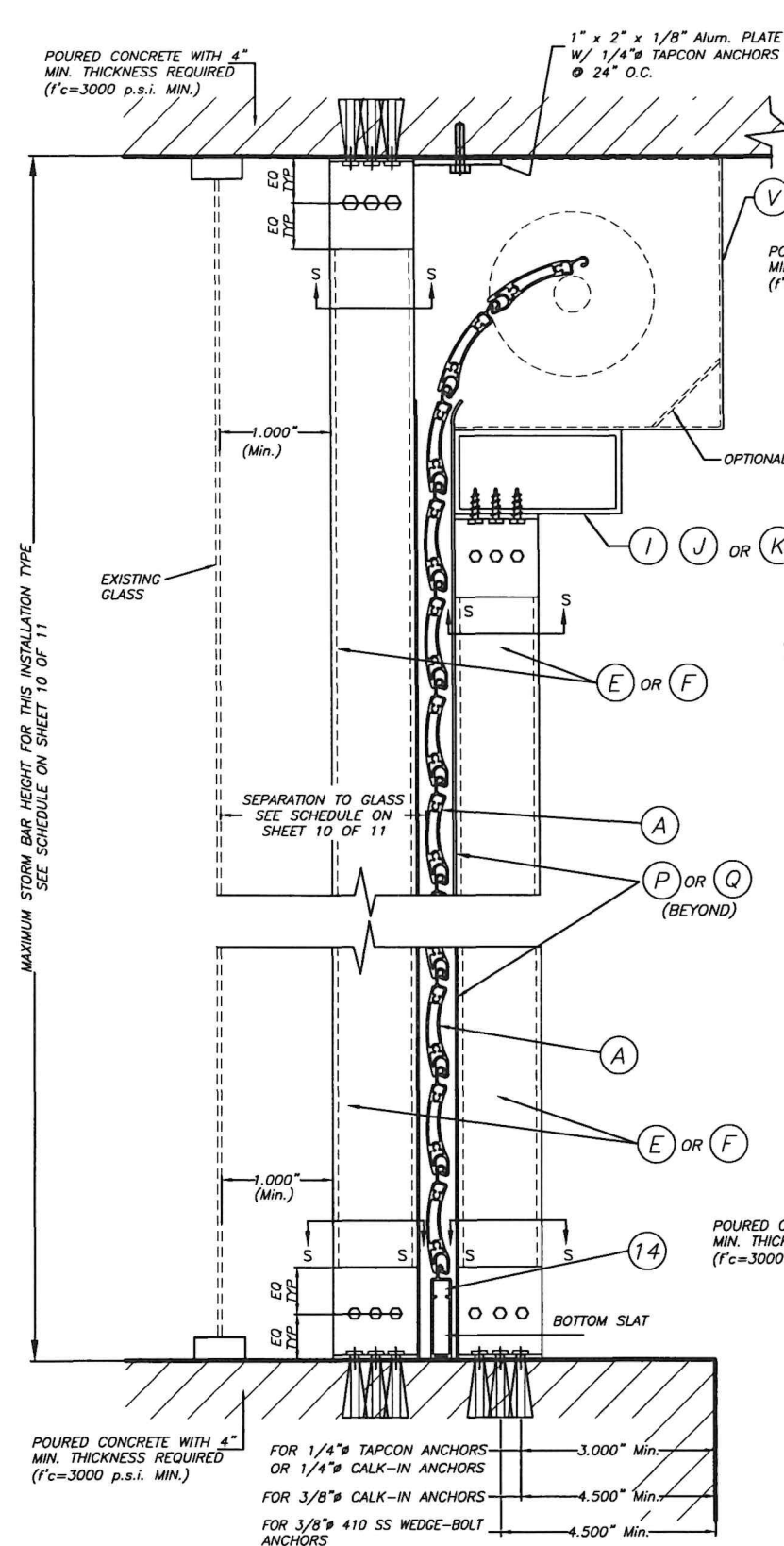
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06/25/2026
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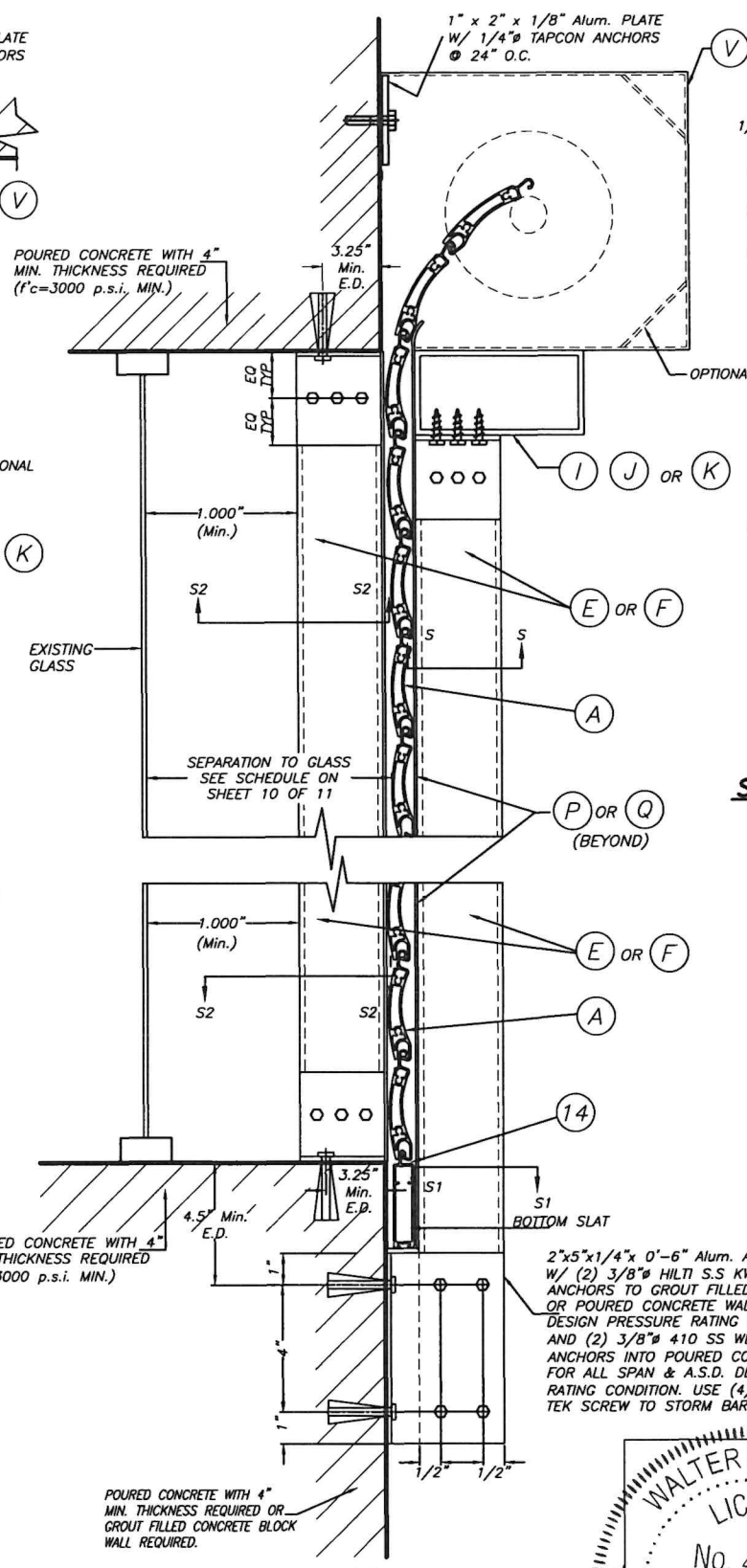
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1	OLD 25-053	06/25/26	3		
2			4		

SHEET 5 OF 11



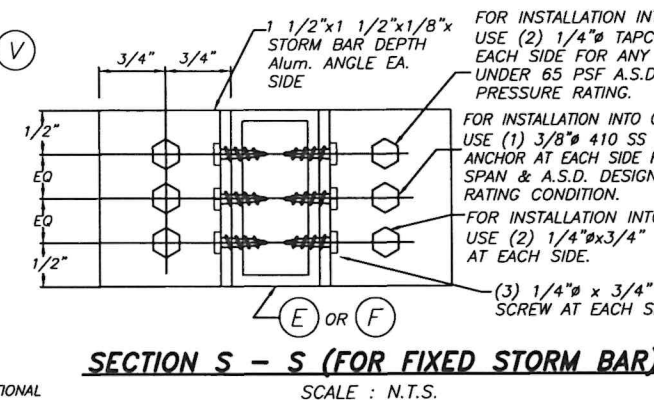
CEILING & FLOOR MOUNTING: SECTION V-V(2) INSTALLATION W/ FIXED OR REMOVABLE STORM BARS W/CONCRETE ANCHORS
(SEE SECTION "S" FOR ANCHOR TYPE REQUIREMENT)
SCALE : N.T.S.

SINGLE SPAN SECTIONS AND DETAILS ARE SIMILAR TO ABOVE SHOWN WITHOUT STORM BAR & HEADERS.

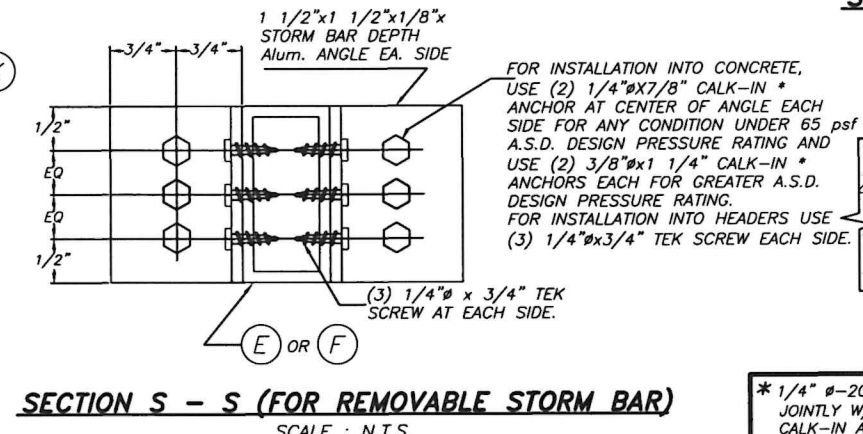


WALL MOUNTING: SECTION V-V(1) INSTALLATION W/ FIXED STORM BARS W/CONCRETE ANCHORS
SCALE : N.T.S.

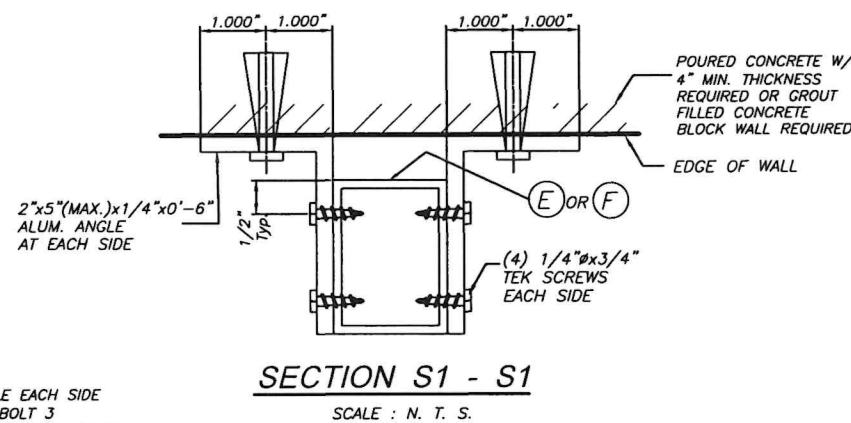
SECTION V - V



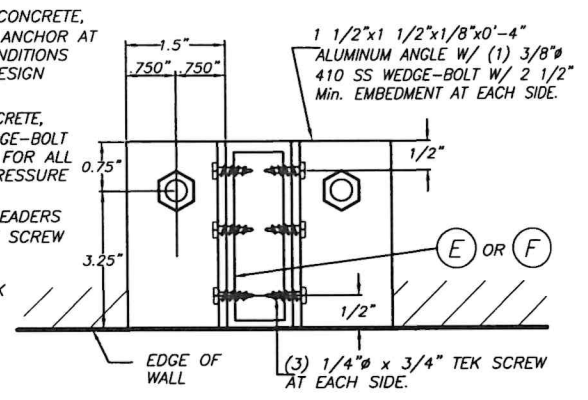
SECTION S - S (FOR FIXED STORM BAR)
SCALE : N.T.S.



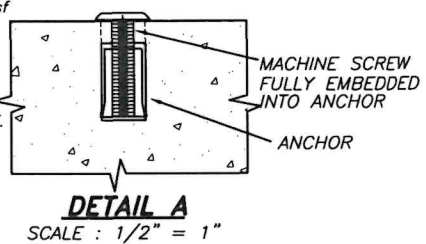
SECTION S - S (FOR REMOVABLE STORM BAR)
SCALE : N.T.S.



SECTION S1 - S1
SCALE : N. T. S.

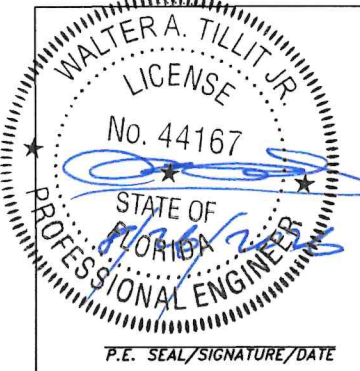


SECTION S2 - S2
SCALE : N.T.S.



DETAIL A
SCALE : 1/2\" = 1\"

* 1/4\" -20 OR 3/8\" -16 S.S MACHINE SCREWS USED JOINTLY W/ 1/4\" x 7/8\" OR 3/8\" x 1 1/4\" CALK-IN ANCHORS RESPECTIVELY SHALL BE LEFT TOGETHER W/ ANCHORS AT THE TIME STORM BARS ARE REMOVED. (SEE DET. A).



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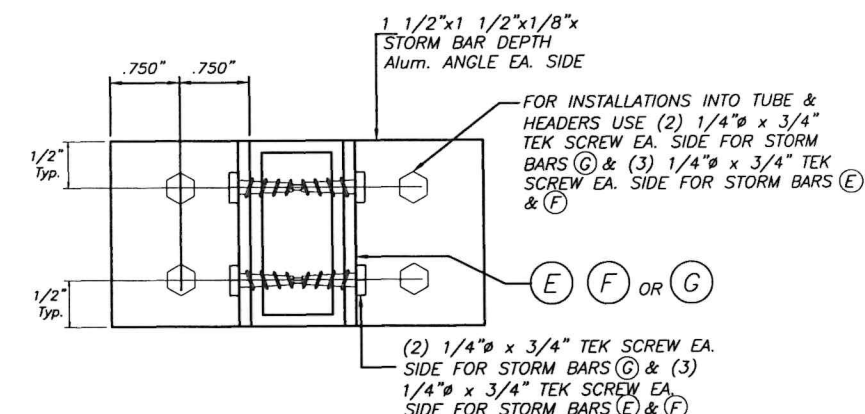
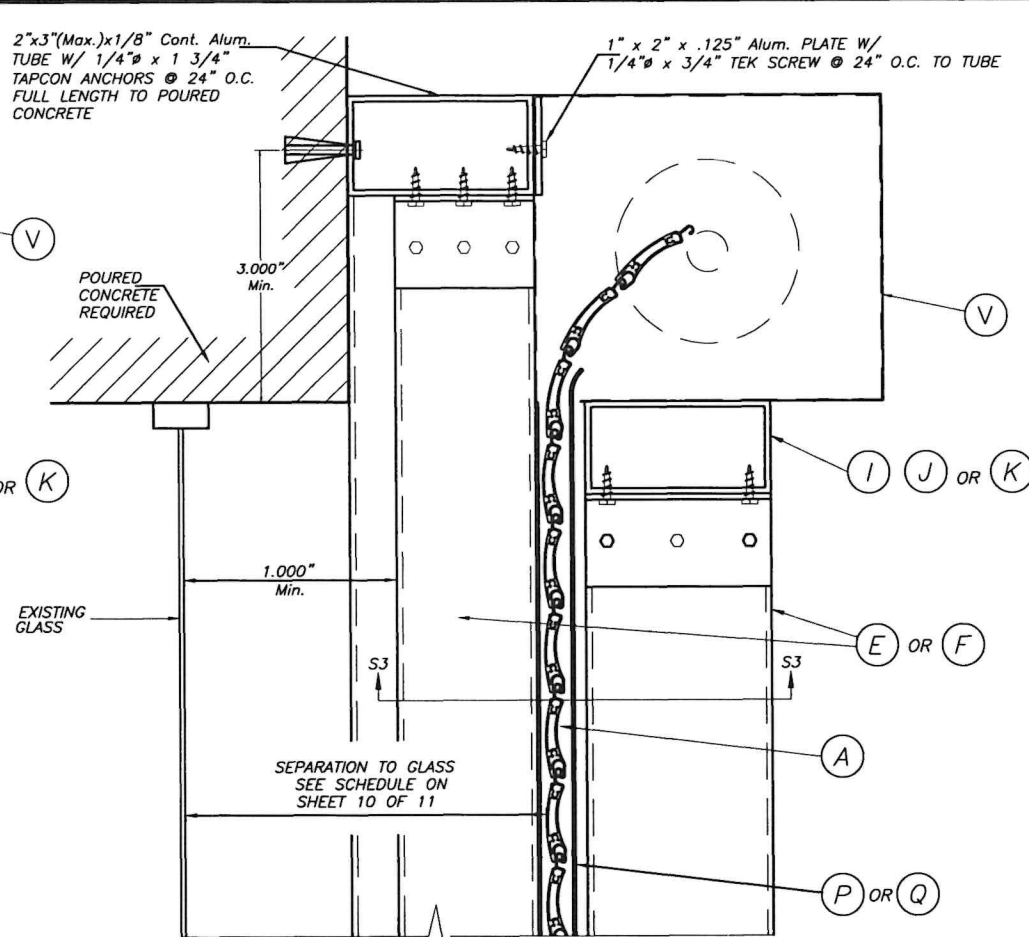
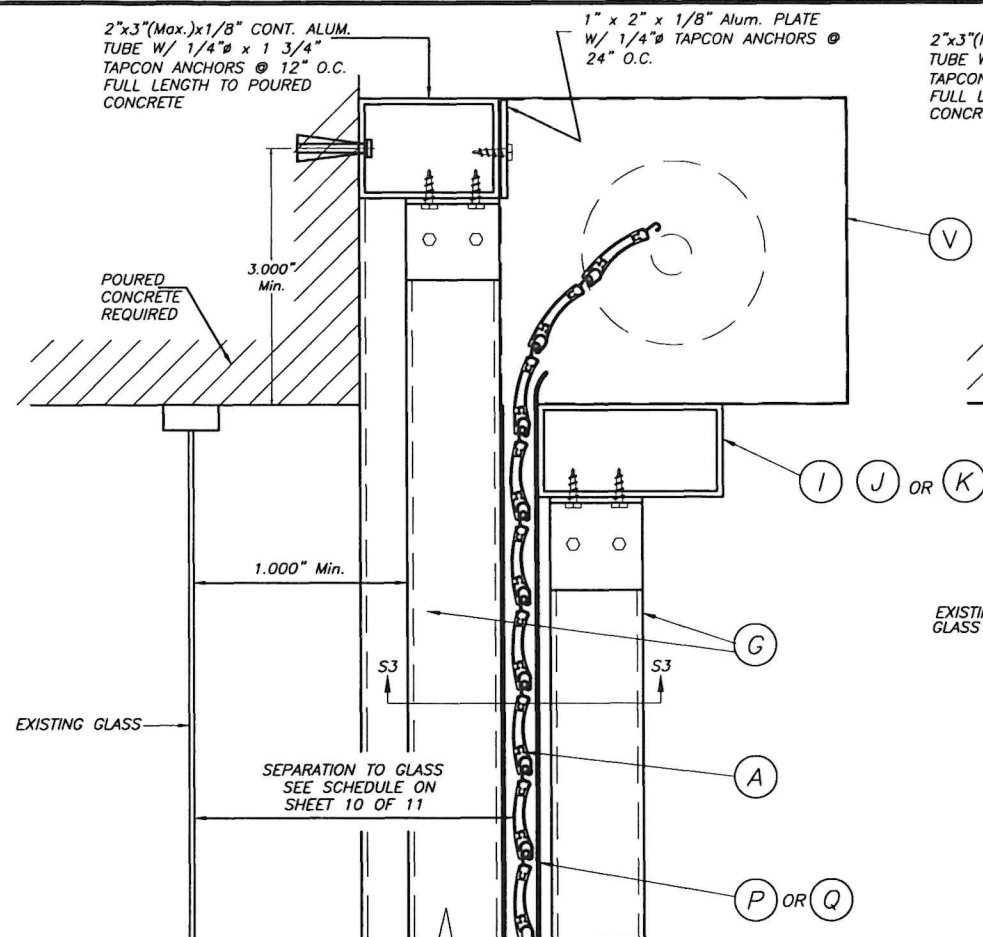
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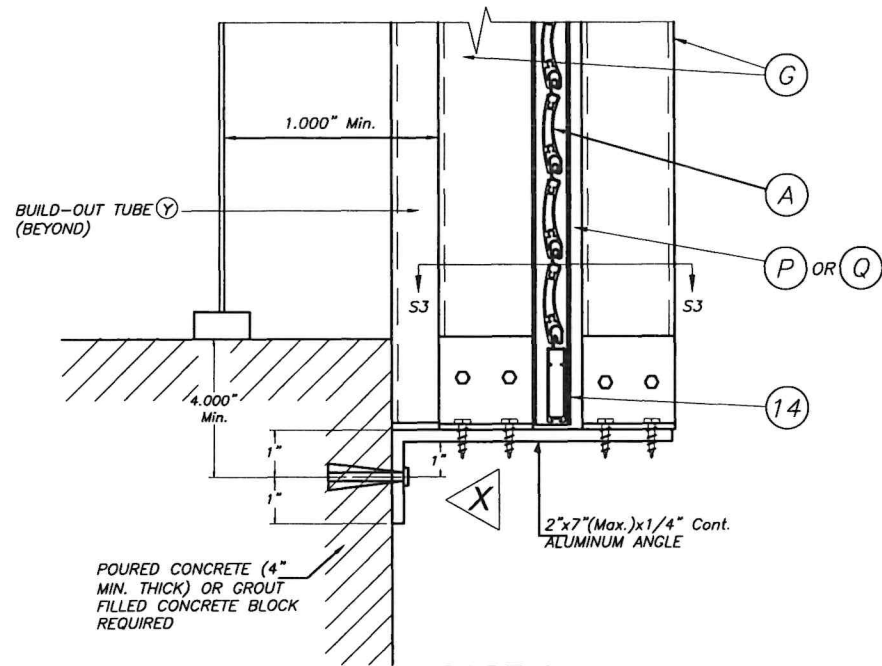
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WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

RLL 55-X SLAT NON END RETENTION ROLL-UP SHUTTER			W.H. DRAWN BY		
ROLLAC SHUTTER OF TEXAS, INC.			06/25/2026 DATE		
5331 ORANGE STREET PEARLAND, TX 77581 PH: (800) 880-0922, FAX: (281) 485-0839			26-074 DRAWING N°		
REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

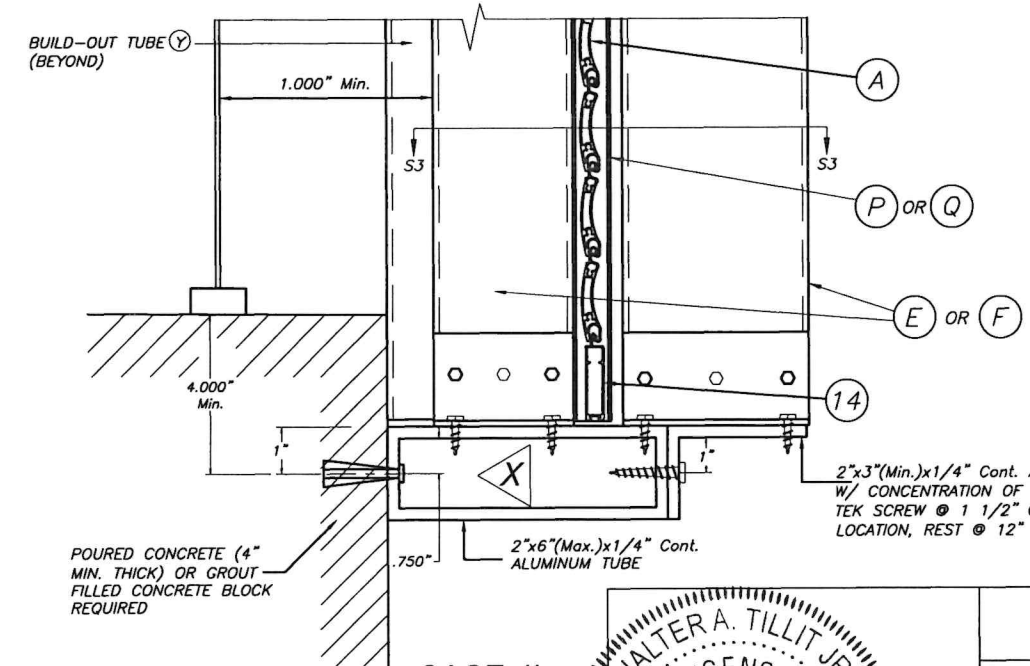
SHEET 6 OF 11



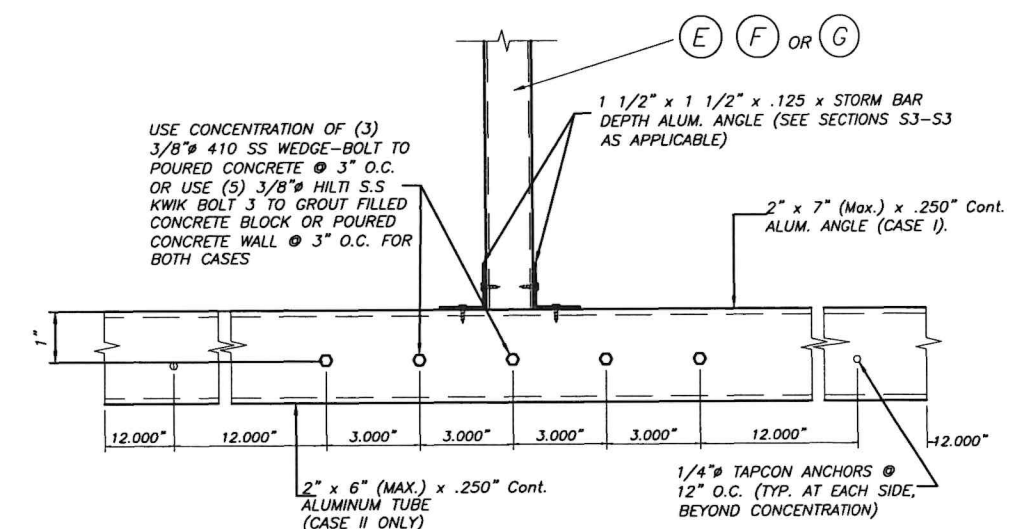
SECTION S3 - S3
SCALE : 1/2" = 1"



CASE I



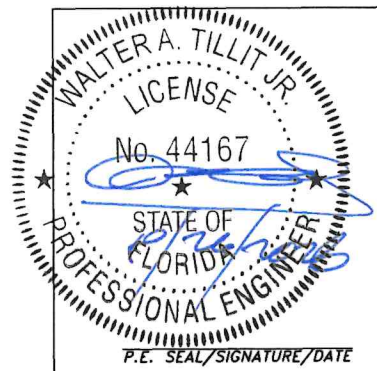
CASE II



ELEVATION X
SCALE : N.T.S.

STORM BAR CONNECTION AT BUILD-OUT INSTALLATION : SECTIONS V - V (3)

SCALE : 1/4" = 1"



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RLL 55-X SLAT NON END RETENTION ROLL-UP SHUTTER

W.H. DRAWN BY

06/25/2026 DATE

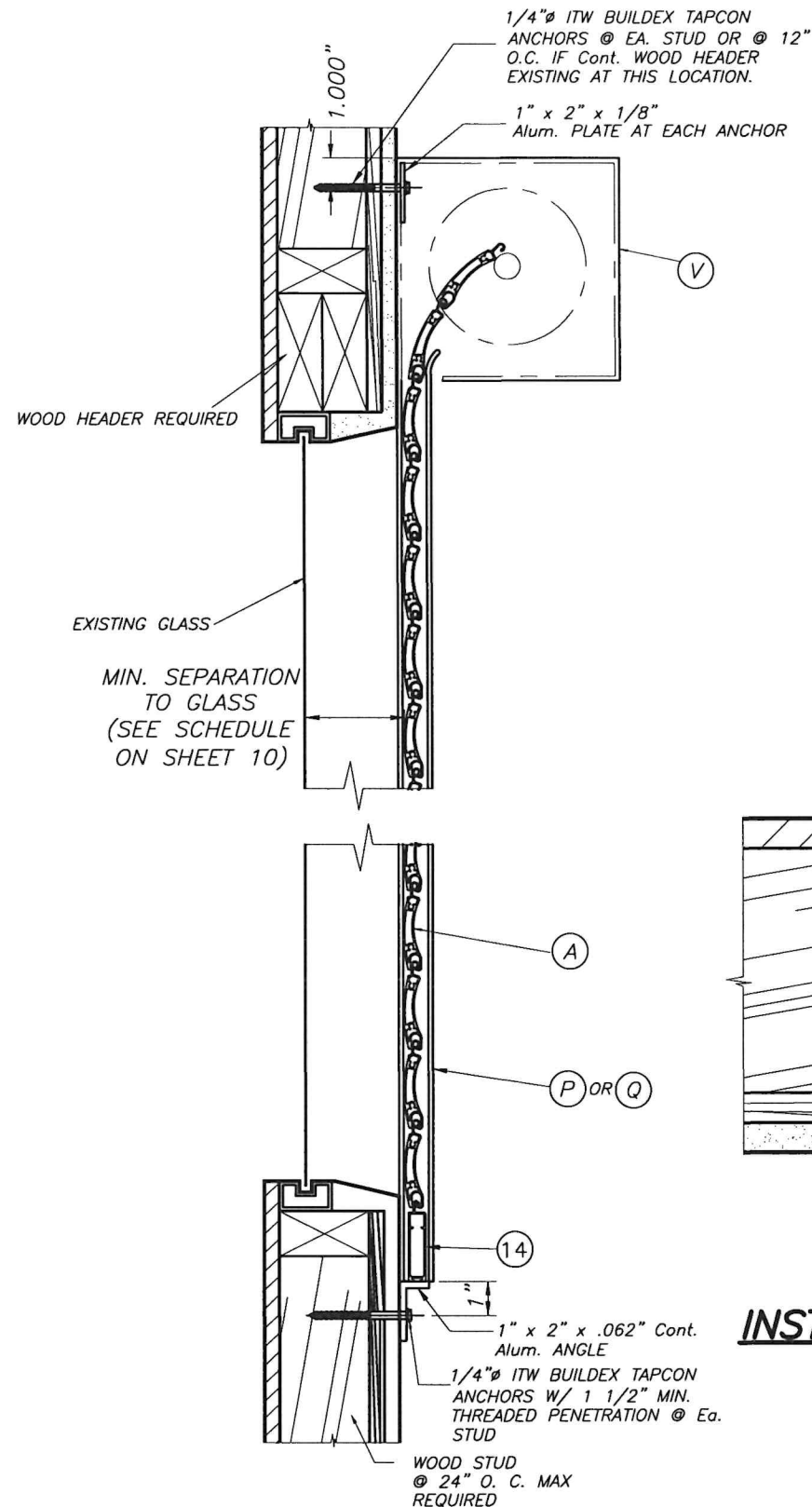
26-074 DRAWING N°

REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

SHEET 7 OF 11

REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

SHEET 8 OF 11



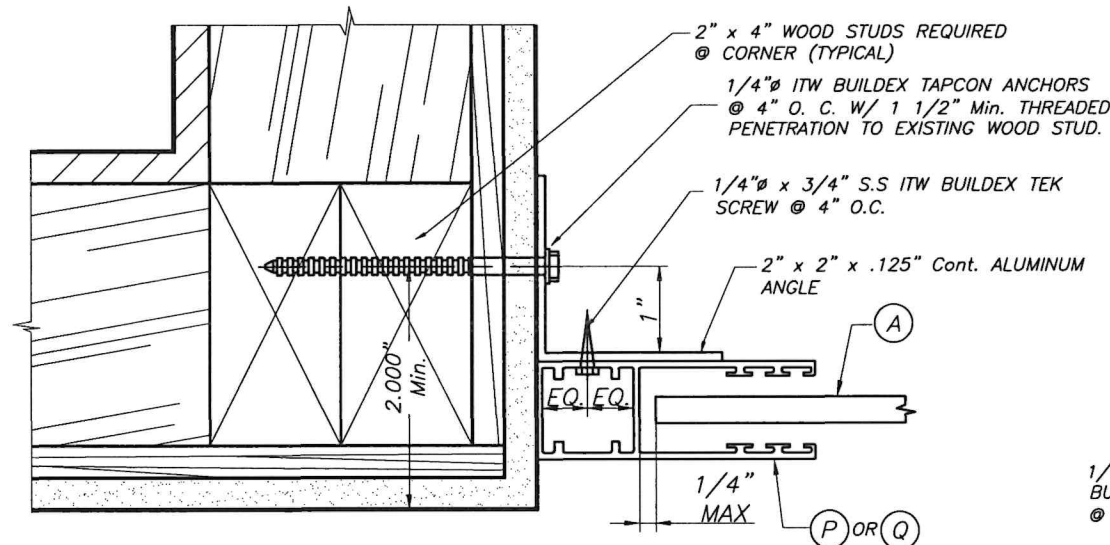
**WALL MOUNTING INSTALLATION
SINGLE SPAN CONDITION**

N. T. S.

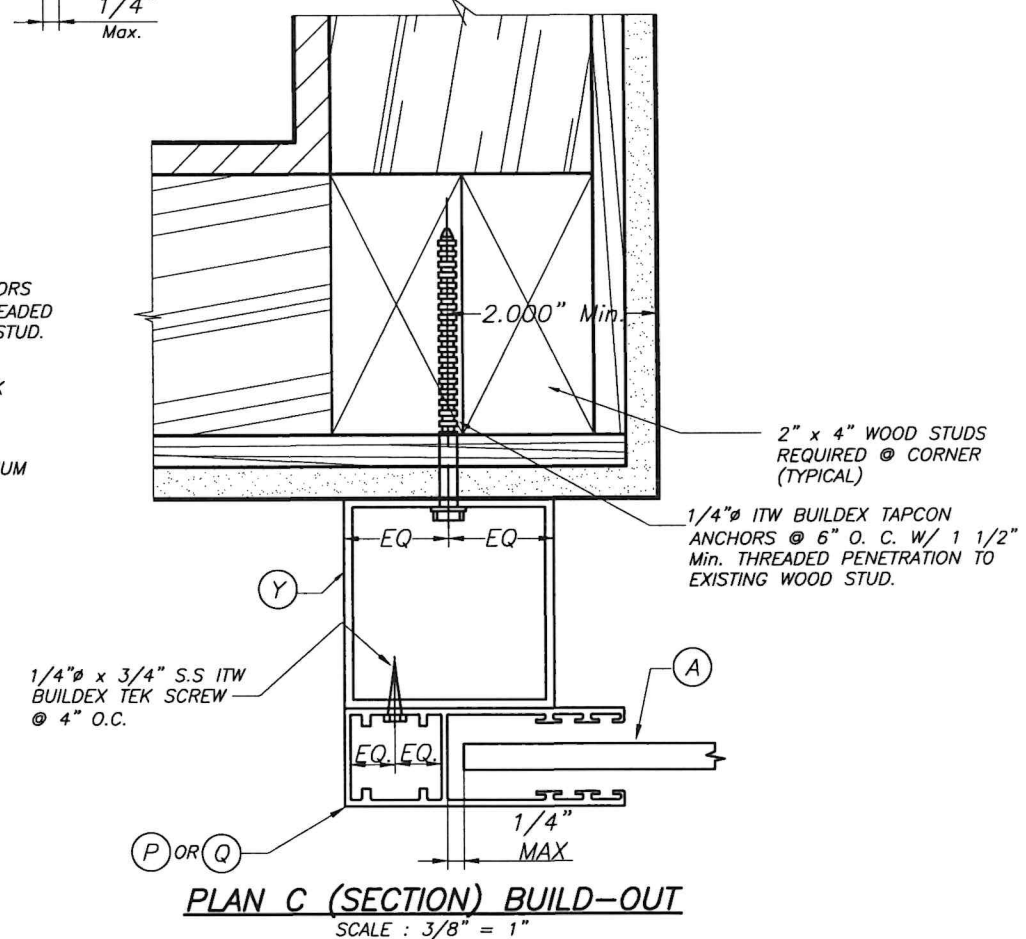
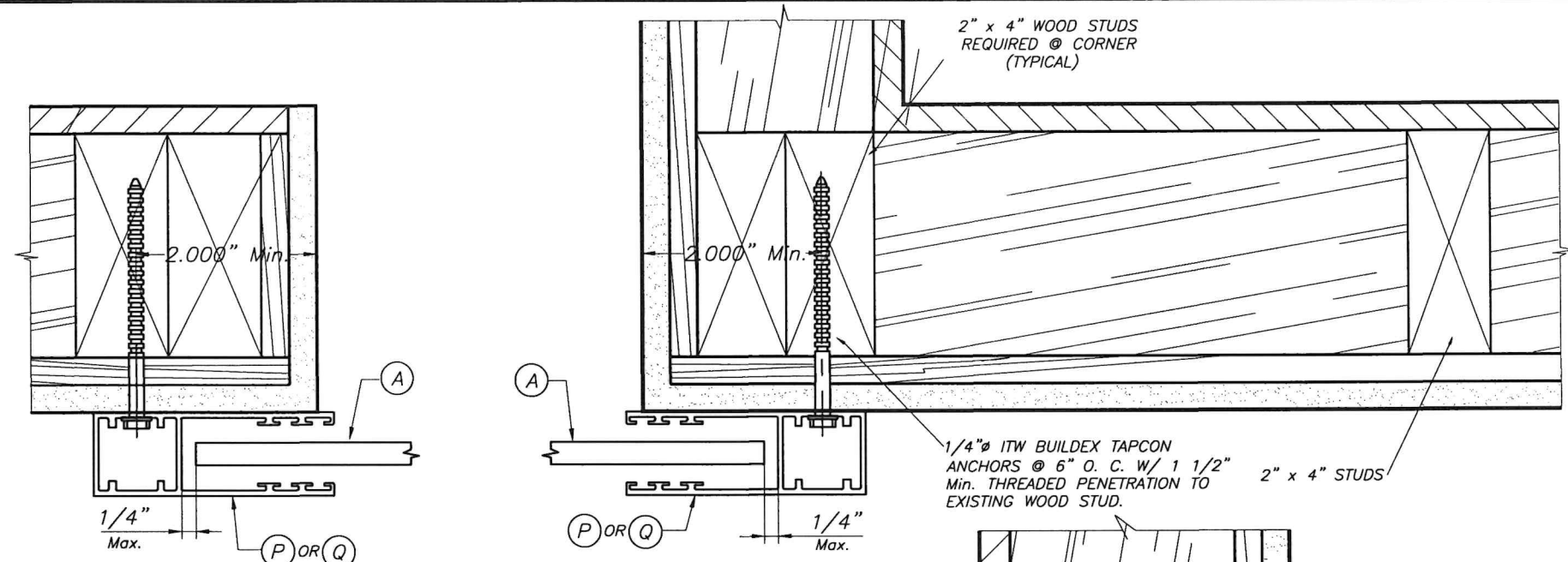
NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH DESIGN LOAD UP TO 72 p.s.f. A.S.D. DESIGN PRESSURE RATING.
2. FOR NEW FRAME CONSTRUCTION: WOOD MEMBER TO BE SOUTHERN PINE No. 2 W/ SPECIFIC DENSITY OF 0.55 OR DOUGLAS FIR W/ SPECIFIC DENSITY OF 0.42.

**PLAN B (SECTION)
INSIDE MOUNT
SCALE : 3/8" = 1"**
INSTALLATIONS INTO EXISTING WOOD BUILDINGS



**PLAN A (SECTION)
WALL MOUNT
SCALE : 3/8" = 1"**



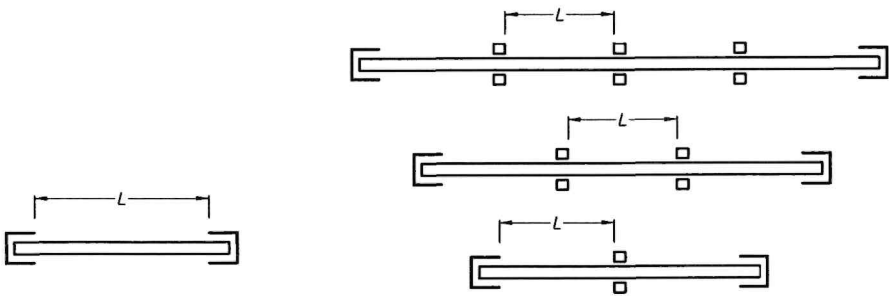
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REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE				
1	OLD 25-053	06/25/26	3						
2			4						

SHEET 9 OF 11

SLAT PERFORMANCE CHART

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.)
AND CORRESPONDING MAXIMUM SLAT SPAN "L"
(USE MAXIMUM VALUES BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	TYPE 1 SLAT RLL 55-X		
	MAXIMUM SLAT SPAN	MINIMUM SEPARATION TO GLASS	
	SINGLE & MULTIPLE UNIT	SINGLE & MULTIPLE UNIT	
		WIND ZONES 1-3	WIND ZONE 4
25.0	7'-0"	1"	6"
30.0	7'-0"	1"	6"
35.0	7'-0"	1"	6"
40.0	7'-0"	1"	6"
45.0	6'-7"	1"	6"
50.0	6'-3"	1"	6"
55.0	6'-0"	1"	6"
60.0	5'-8"	1"	6"
65.0	5'-6"	1"	6"
70.0	5'-3"	1"	6"
72.0	5'-2 1/2"	1"	6"



SINGLE SPAN

MULTIPLE SPAN

SPAN LAYOUT

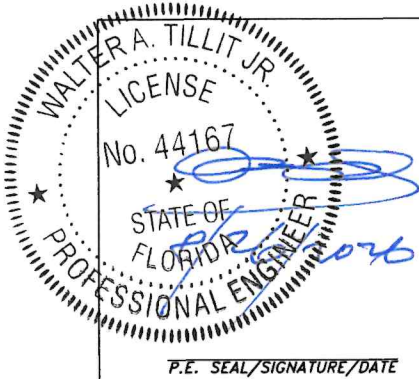
NOTES: -MINIMUM SEPARATION TO GLASS FOR SINGLE AND MULTIPLE UNITS
SHALL BE MEASURED FROM BACK OF SLAT TO GLASS.

STORM BAR LOADING CHART

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.) AND CORRESPONDING MAXIMUM SPAN "L"
FOR A GIVEN TYPE OF STORM BAR AND STORM BAR SPACING.
(USE MAXIMUM VALUES BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	E TYPE 1 STORM BAR 2" x 4" x 1/4"				F TYPE 2 STORM BAR 2" x 4" x 1/8"				G TYPE 3 STORM BAR 2" x 3" x 1/8"			
	◇ STORM BAR SPACING				◇ STORM BAR SPACING				◇ STORM BAR SPACING			
	≤ 3'-0"	3' TO 4'	4' TO 5'	5' TO 6'	≤ 3'-0"	3' TO 4'	4' TO 5'	5' TO 6'	≤ 3'-0"	3' TO 4'	4' TO 5'	5' TO 6'
	30.0 OR LESS	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	9'-0"	9'-0"	8'-11"	8'-0"	8'-0"	7'-3"
35.0	10'-0"	10'-0"	10'-0"	10'-0"	9'-0"	9'-0"	9'-0"	8'-3"	8'-0"	8'-0"	7'-5"	6'-9"
40.0	10'-0"	10'-0"	10'-0"	9'-11"	9'-0"	9'-0"	8'-6"	7'-9"	8'-0"	7'-9"	6'-11"	6'-4"
45.0	10'-0"	10'-0"	10'-0"	9'-8"	9'-0"	8'-11"	8'-0"	7'-4"	8'-0"	7'-3"	6'-6"	5'-11"
50.0	10'-0"	10'-0"	9'-10"	9'-3"	9'-0"	8'-6"	7'-7"	6'-11"	8'-0"	6'-11"	6'-2"	5'-8"
55.0	10'-0"	10'-0"	9'-7"	8'-10"	9'-0"	8'-1"	7'-3"	6'-7"	7'-7"	6'-7"	5'-11"	5'-5"
60.0	10'-0"	9'-11"	9'-3"	8'-5"	8'-11"	7'-9"	6'-11"	6'-4"	7'-3"	6'-4"	5'-8"	5'-2"
65.0	10'-0"	9'-9"	8'-11"	8'-1"	8'-7"	7'-5"	6'-8"	6'-1"	7'-0"	6'-1"	5'-5"	4'-11"
70.0	10'-0"	9'-7"	8'-7"	7'-10"	8'-3"	7'-2"	6'-5"	5'-10"	6'-9"	5'-10"	5'-3"	4'-9"
72.0	10'-0"	9'-3"	8'-3"	7'-7"	8'-0"	6'-11"	6'-2"	5'-8"	6'-6"	5'-8"	5'-1"	4'-7"

◇ STORM BAR SPACING SHALL BE SUCH THAT MAXIMUM SLAT SPAN SHALL NOT BE EXCEEDED.



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RLL 55-X SLAT NON END RETENTION
ROLL-UP SHUTTER

W.H.
DRAWN BY

ROLLAC SHUTTER OF TEXAS, INC.

06/25/2026
DATE

26-074
DRAWING N°

REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

HEADER LOADING CHART
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.) AND CORRESPONDING MAXIMUM SPAN "L" (Ft.) FOR A GIVEN TYPE OF HEADER AND STORM BAR HEIGHT (Ft.).

(USE MAXIMUM VALUES BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Ⓘ TYPE 1 HEADER 2" x 4" X 1/4"			⓵ TYPE 2 HEADER 2" x 4" X 1/8"		Ⓚ TYPE 3 HEADER 1" x 4" X 1/8"	
	STORM BAR HEIGHT			STORM BAR HEIGHT		STORM BAR HEIGHT	
	≤ 7'-0"	7' TO 9'	9' TO 10'	≤ 5'-0"	5' TO 8'	≤ 5'-0"	5' TO 7'
30.0 OR LESS	15'-1"	14'-0"	13'-2"	12'-0"	11'-2"	7'-1"	6'-6"
35.0	14'-9"	13'-0"	12'-4"	12'-0"	10'-4"	7'-1"	6'-6"
40.0	13'-9"	12'-2"	11'-6"	12'-0"	9'-8"	7'-1"	6'-6"
45.0	13'-0"	11'-5"	10'-10"	11'-6"	9'-1"	7'-1"	6'-4"
50.0	12'-4"	10'-10"	10'-4"	10'-11"	8'-8"	7'-1"	6'-0"
55.0	11'-9"	10'-4"	9'-10"	10'-5"	8'-3"	6'-10"	5'-9"
60.0	11'-3"	9'-11"	9'-5"	10'-0"	7'-11"	6'-6"	5'-6"
65.0	10'-10"	9'-6"	9'-0"	9'-7"	7'-7"	6'-3"	5'-4"
70.0	10'-5"	9'-2"	8'-8"	9'-3"	7'-4"	6'-0"	5'-1"
72.0	10'-1"	8'-10"	8'-5"	8'-11"	7'-1"	5'-10"	4'-11"

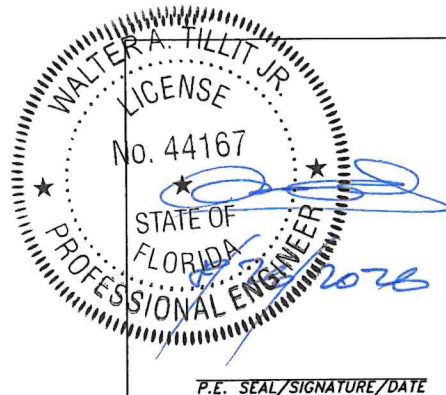
SIDE RAIL ANCHOR SCHEDULE. MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING(in) *
FOR SIDE RAILS(P) & (Q) CONNECTION TO POURED CONCRETE OR CONCRETE BLOCK WALL *

(USE MAXIMUM VALUES BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

SLAT TYPE 1 (Ⓐ) (RLL 55-X)							
MAX. A.S.D. DESIGN PRESSURE RATING (psf)	SUBSTRATE	FASTENERS' SPACING "spcg" (in o.c.)					
		P (RLL-40) SIDE RAL			Q (RLL-1) SIDE RAL		
		WALL MOUNT	INSIDE MOUNT	BUILD-OUT MOUNT	WALL MOUNT	INSIDE MOUNT	BUILD-OUT MOUNT
45 OR LESS	POURED CONCRETE	8"	8"	6"	8"	7.5"	6"
	CONCRETE BLOCK	7.5"	5.5"	6"	7.5"	6"	6"
> 45 to 72	POURED CONCRETE	8"	8"	6"	8"	7.5"	6"
	CONCRETE BLOCK	5.5"	4"	6"	5.5"	5"	6"

* MAXIMUM ANCHOR SPACING (in.) AT SIDE RAILS VERSUS EDGE DISTANCE = E.D.

MAXIMUM ANCHOR SPACING IS VALID FOR 3" EDGE DISTANCE.



P.E. SEAL/SIGNATURE/DATE

MULLION LOADING CHART
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.) AND CORRESPONDING MAXIMUM SPAN "L" (Ft.) FOR A GIVEN TYPE OF MULLION AND MULLION SPACING (Ft.).

(USE MAXIMUM VALUES BETWEEN POSITIVE AND NEGATIVE A.S.D. LOAD)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	Ⓐ TYPE 1 MULLION (4"x6"x1/4")			Ⓜ TYPE 2 MULLION (4"x4"x1/4")		
	MULLION SPACING			MULLION SPACING		
	≤ 4'-0"	4' TO 5'	5' TO 8'	≤ 4'-0"	4' TO 5'	5' TO 8'
30 OR LESS	12' - 0"	12' - 0"	12' - 0"	12' - 0"	12' - 0"	11' - 10"
35	12' - 0"	12' - 0"	12' - 0"	12' - 0"	12' - 0"	11' - 3"
40	12' - 0"	12' - 0"	12' - 0"	11' - 9"	12' - 0"	10' - 9"
45	12' - 0"	12' - 0"	12' - 0"	11' - 4"	12' - 0"	10' - 4"
50	12' - 0"	12' - 0"	12' - 0"	10' - 11"	11' - 8"	10' - 0"
55	12' - 0"	12' - 0"	12' - 0"	10' - 7"	11' - 3"	9' - 8"
60	12' - 0"	12' - 0"	12' - 0"	10' - 3"	11' - 0"	9' - 5"
65	12' - 0"	12' - 0"	12' - 0"	10' - 0"	10' - 8"	9' - 2"
70	12' - 0"	12' - 0"	12' - 0"	9' - 9"	10' - 5"	8' - 11"
72	12' - 0"	12' - 0"	12' - 0"	9' - 7"	10' - 2"	8' - 8"

NOTES : REFER TO ELEVATIONS ON SHEET 1A OF 11

1-. FOR MULLIONS INSTALLED W/O STORM BARS

A) MULLION SPACING SHALL BE SUCH THAT MAXIMUM SLAT SPAN SHALL NOT BE EXCEEDED

2-. FOR MULLIONS INSTALLED W/ STORM BARS & HEADERS

A) MULLION SPACING SHALL BE SUCH THAT MAXIMUM HEADER SPAN SHALL NOT BE EXCEEDED

B) STORM BAR SPACING SHALL BE SUCH THAT MAXIMUM SLAT SPAN SHALL NOT BE EXCEEDED

Florida Building Code (Non High Velocity Hurricane Zone)

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FLORIDA Lic. # 44167

RLL 55-X SLAT NON END RETENTION
ROLL-UP SHUTTER

W.H.
DRAWN BY

ROLLAC SHUTTER OF TEXAS, INC.

06/25/2026
DATE

5331 ORANGE STREET
PEARLAND, TX 77581
PH: (800) 880-0922, FAX: (281) 485-0839

26-074
DRAWING N°

REV N°	DESCRIPTION	DATE	REV N°	DESCRIPTION	DATE
1	OLD 25-053	06/25/26	3		
2			4		

SHEET 11 OF 11