

(E1) TYPICAL TOP WALL MOUNT
SCALE: 3" = 1'-0"

(E2) ALTERNATE TOP WALL MOUNT
SCALE: 3" = 1'-0"

(F1) TYPICAL PANEL HINGE CONNECTION
SCALE: 3" = 1'-0"

NOTE: BLADES MAY BE COLONIAL BLADES OR ARTICULATING BLADES. COLONIAL BLADES SHOWN ON THIS PAGE. SEE SHEET 4 FOR TYPICAL ARTICULATING BLADE DETAIL.

(F2) TYPICAL CENTER CLIP CONNECTION
SCALE: 3" = 1'-0"

G1 TYPICAL BOTTOM WALL MOUNT
SCALE: 3" = 1'-0"

(H) ALTERNATE BLADE
SCALE: 3" = 1'-0"

G2 ALTERNATE WALL MOUNT
SCALE: 3" = 1'-0"

(J) TYPICAL TRAP MOUNT
SCALE: 3" = 1'-0"

(Kb) SLIDING PANEL SIDE CLOSURE DETAIL
N.T.S.

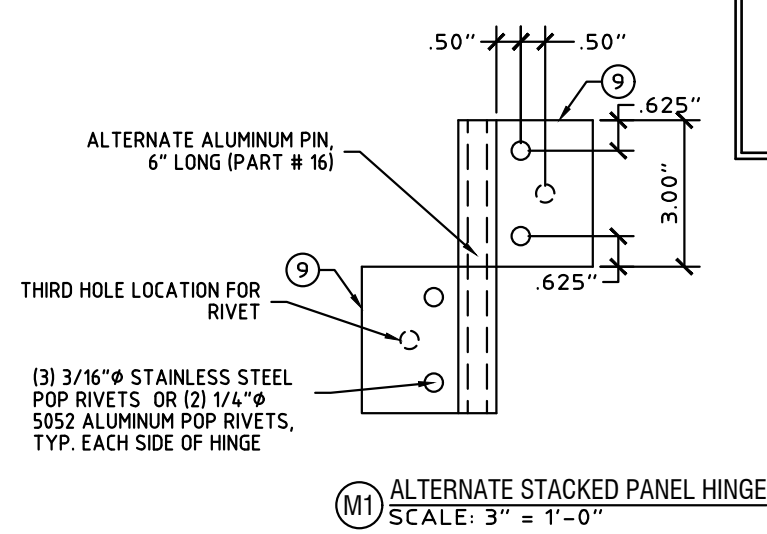
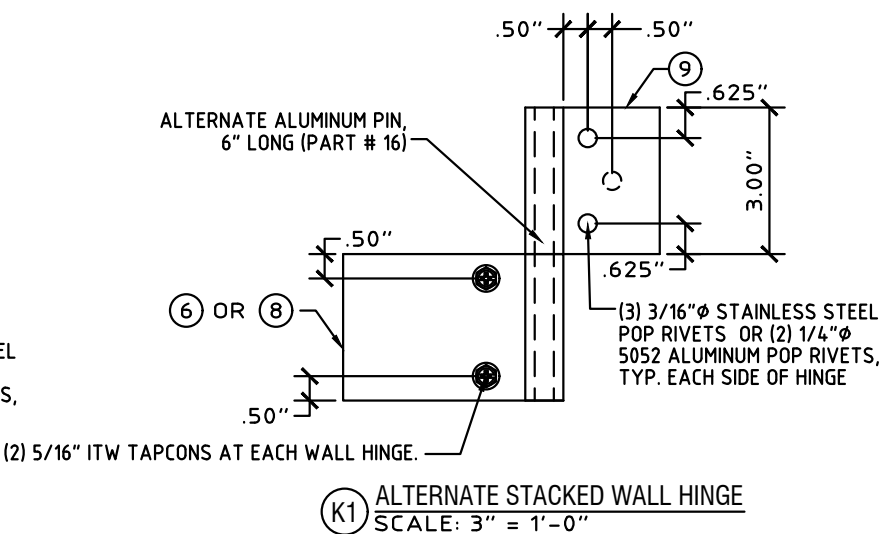
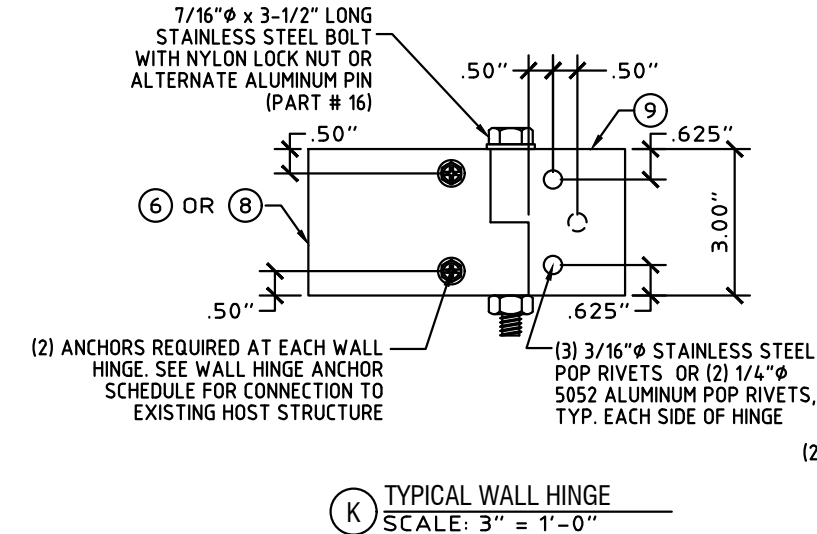
(K) SIDE CLOSURE DETAIL
SCALE: 3" = 1'-0"

(Ka) ALTERNATE SIDE CLOSURE DETAIL
SCALE: 3" = 1'-0"

(Kc) SLIDING PANEL SIDE ALTERNATE CLOSURE DETAIL
N.T.S.

 Town & Country INDUSTRIES Wholesale Aluminum and Building Products A Division of K&S Supply Co., Inc. 400 WEST MCNAB ROAD, FT. LAUDERDALE, FL 33309				 EX ENGINEERING EXPRESS®			
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REMARKS FBC 2021 (20-26168) FBC 2023 - - -		DRWN CCB MILD - - -		CHKD RWN CCB - - -		DATE 7/01/20 8/21/23 - - -	
COLONIAL SHUTTER FLORIDA BUILDING CODE EIGHTH EDITION (2023) FLORIDA STATEWIDE APPROVAL (FSA FL #16219.1)							
23-64831 SCALE: NTS UNLESS NOTED				3 OF 10			

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WALL HINGE ANCHOR SCHEDULE:

TO 3192 PSI MIN. CONCRETE:

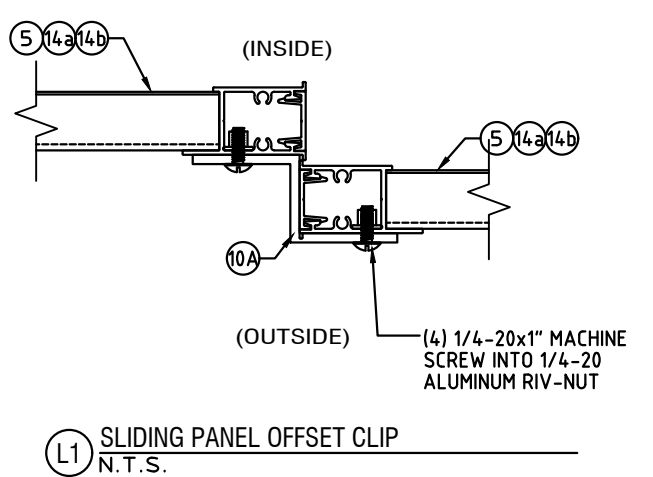
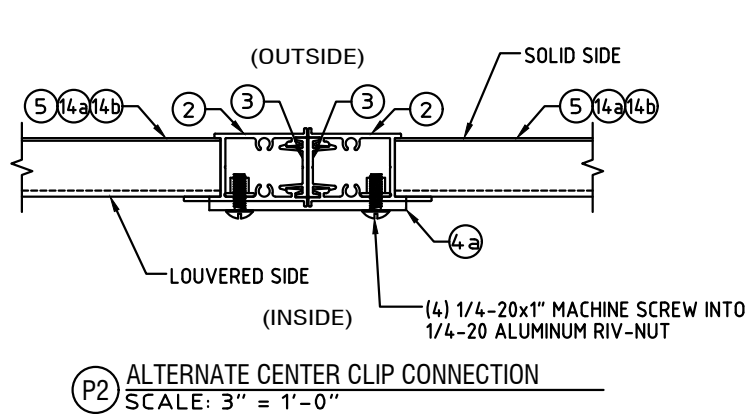
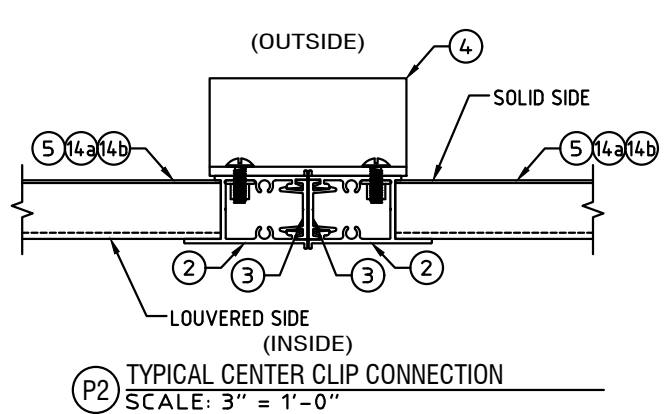
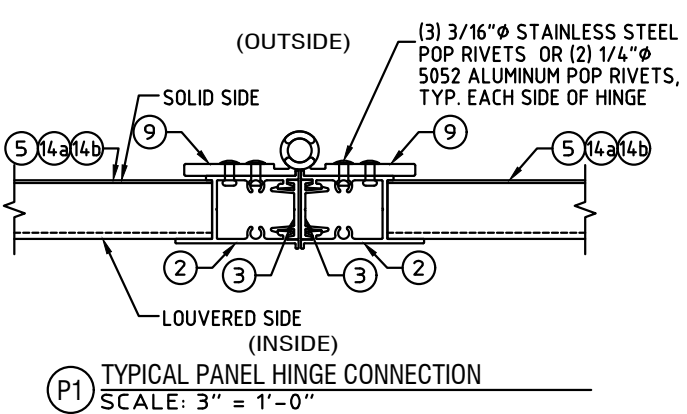
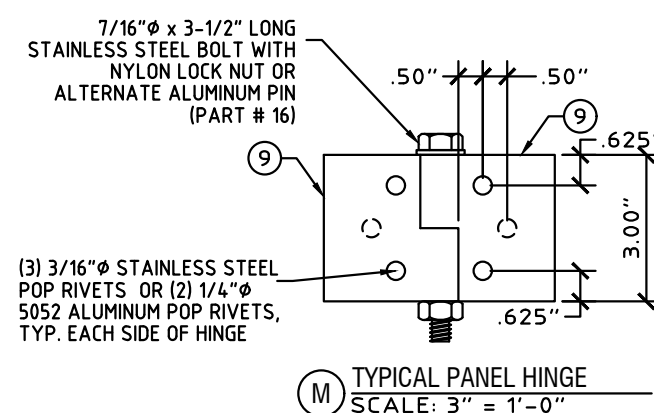
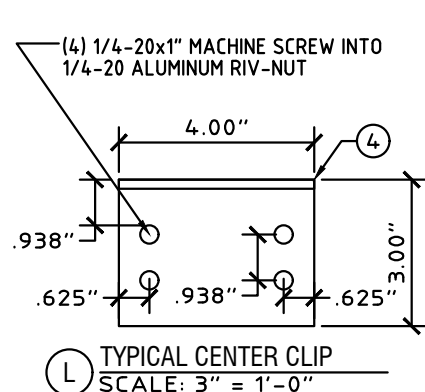
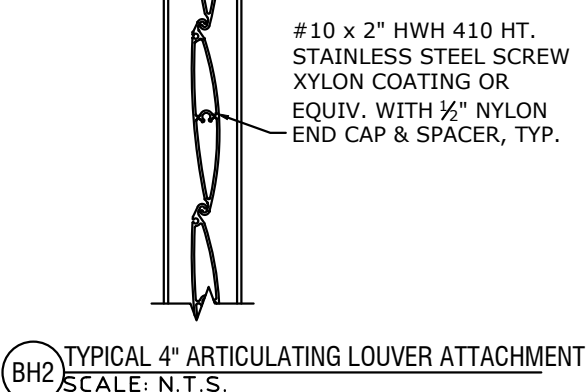
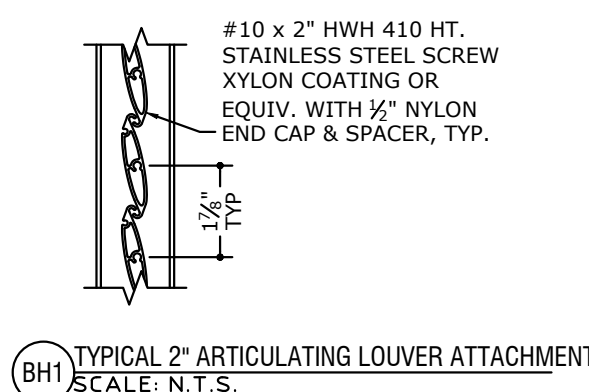
- 1/4" ITW SS TAPCON W/ 1 3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE.
- 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE.

TO GROUT-FILLED CONCRETE BLOCK:

- 1/4" DEWALT ULTRACON W/ 2-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE.
- 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.

TO G=0.42 MIN. WOOD HOST STRUCTURE:

- 1/4" LAG SCREWS WITH 1-1/2" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.
- #14 WOOD SCREW OR SMS W/ 1-1/2" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.



COLBY BENNARDO, PE
PE# 95197 CA# 9885

SPACE RESERVED FOR DIGITAL SEAL INFORMATION

WHEN DIGITALLY SEALED, THIS NOTE SHALL BE FULLY COVERED ON SHEET 1

WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE SHOWN TO THE RIGHT.

IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP

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No 95197
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SIGNED: 08/21/2023

FL# 16219.1

ENGINEERING EXPRESS

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Wholesale Aluminum and Building Products
A Division of Express Inc.

400 WEST MCNAB ROAD, FT. LAUDERDALE, FL 33309

COLONIAL SHUTTER

FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16219.1)

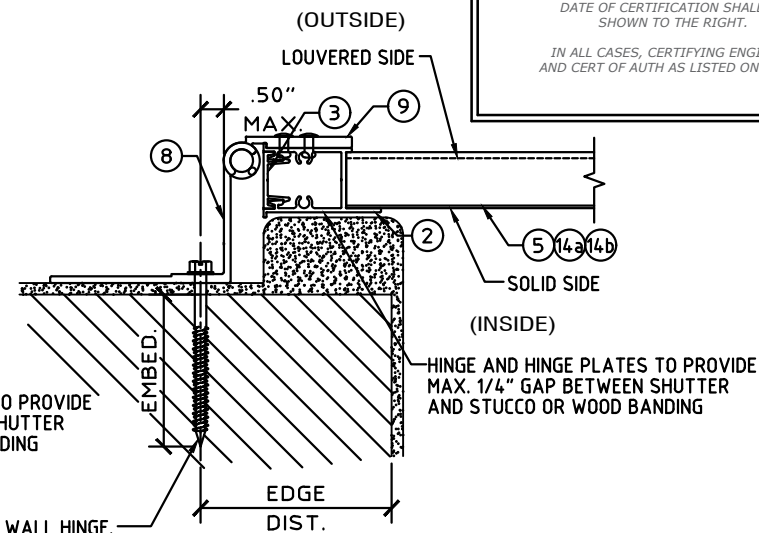
REMARKS	DATE	DRWN	CHKD	CCB	RWN	MILD	CCB
FBC 2020 [20-26168]	7/01/20						
FBC 2023	8/21/23						

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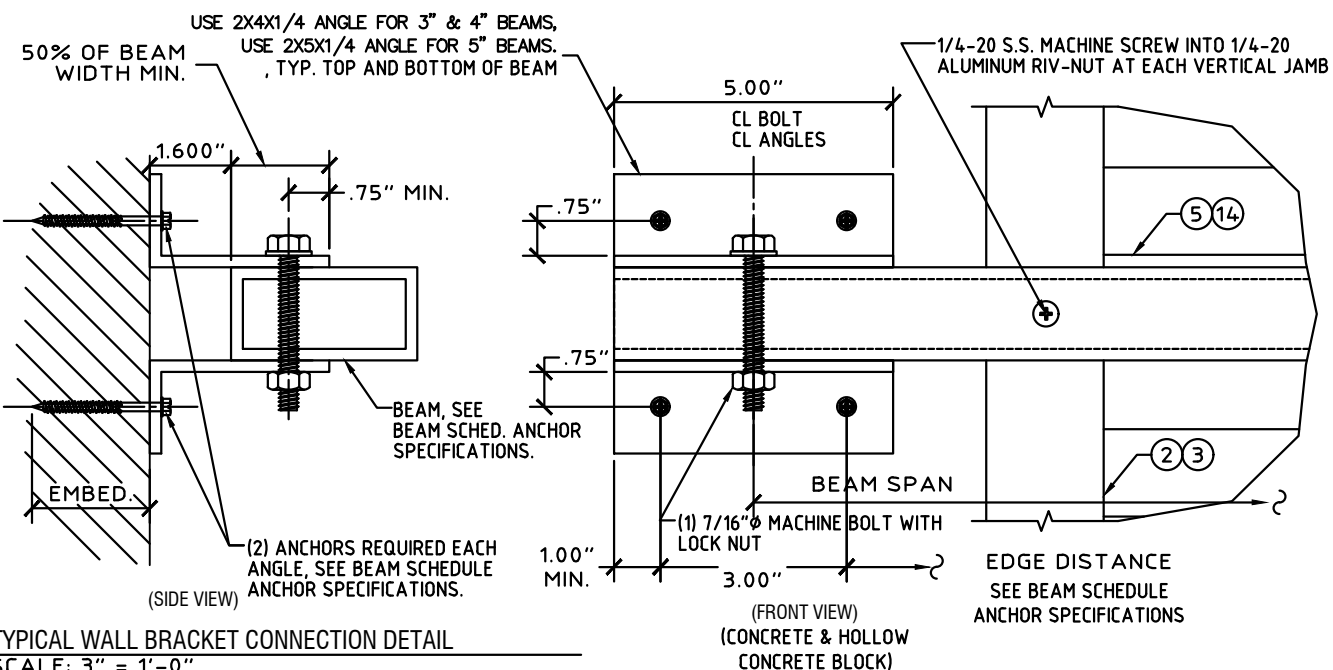
(N4) ALTERNATE WALL HINGE CONNECTION
SCALE: 3" = 1'-0"

BEAM SIZE	SHUTTER SPAN	BEAM SPAN	WALL BRACKET ANCHOR TYPES		
			CONCRETE (3323 PSI MIN)	HOLLOW CONCRETE BLOCK	WOOD (G=0.42 MIN.)
2"x3"x1/8" (6063-T6)	8'-1.75"	6'-0"	A, B, C	A, B, C	B, C
	6'-8"	6'-8"	A, B, C	A, B, C	B, C
	5'-10"	7'-0"	A, B, C	A, B, C	B, C
2"x4"x1/8" (6063-T6)	8'-1.75"	7'-5"	A, B, C	A, C	B, C
	6'-8"	8'-1"	A, B, C	A, C	B, C
	5'-10"	8'-6"	A, B, C	A, B, C	B, C
2"x5"x1/8" (6063-T6)	8'-1.75"	8'-8"	A, B, C	A, C	B, C
	6'-8"	9'-5"	A, B, C	A, C	B, C
	5'-10"	9'-11"	A, B, C	A, C	B, C
2"x4"x1/4" (6061-T6)	8'-1.75"	11'-3"	A, B, C	C	B, C
	6'-8"	12'-2"	A, B, C	C	B, C
	5'-10"	12'-6"	A, B, C	A, C	B, C

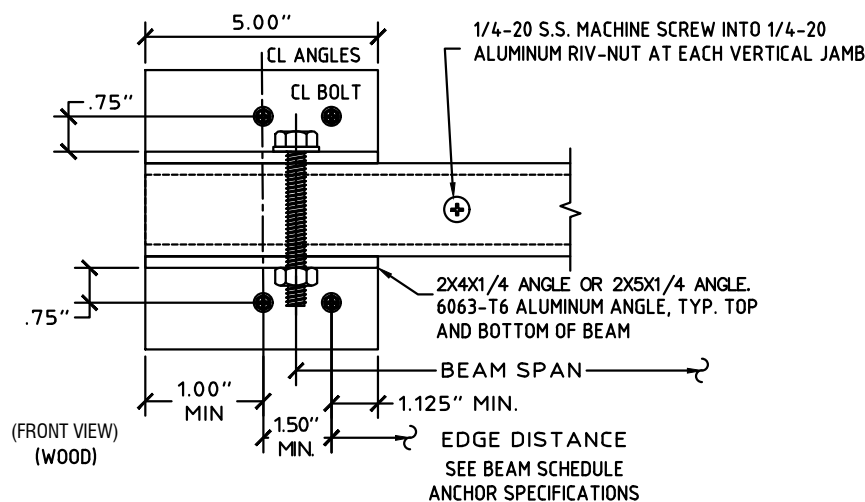
A. 1/4" ALL POINTS SOLID-SET ANCHORS
FOR CONCRETE: 7/8" MIN. EMBEDMENT, 3" MIN. EDGE
DISTANCE, AND 3" MIN. SPACING.
FOR HOLLOW CONCRETE BLOCK: 7/8" MIN. EMBEDMENT, 3"
MIN. EDGE DISTANCE, AND 3" MIN. SPACING.

B. 1/4" EYEWALL ARMOR MALE BOLT OR DEWALT
MALE/FEMALE PANELMATE
FOR CONCRETE: 2" MIN. EMBEDMENT, 3" MIN. EDGE
DISTANCE, AND 3" MIN. SPACING.
FOR HOLLOW CONCRETE BLOCK: 1-1/4" MIN. EMBEDMENT,
3" MIN. EDGE DISTANCE, AND 3" MIN. SPACING.
FOR WOOD: 1-7/8" MIN. EMBEDMENT. 3/4" MIN. EDGE
DISTANCE, 1.5" MIN. SPACING.

C. 1/4" ITW TAPCON SG
FOR CONCRETE: 1-3/4" MIN. EMBEDMENT, 2-1/2" MIN. EDGE
DISTANCE, 3" MIN. SPACING.
FOR HOLLOW CONCRETE BLOCK: 1-1/4" MIN. EMBEDMENT,
2-1/2" MIN. EDGE DISTANCE, 3" MIN. SPACING.
FOR WOOD: 1-1/2" MIN. EMBEDMENT, 3/4" MIN. EDGE
DISTANCE, 1.5" MIN. SPACING.



Q TYPICAL WALL BRACKET CONNECTION DETAIL
SCALE: 3" = 1'-0"



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PLATE 0.090"x1"x3-1/2" WITH (2) 1/4"Ø RIV-NUTS (TOP & BOTTOM OF PANELS)

12

13

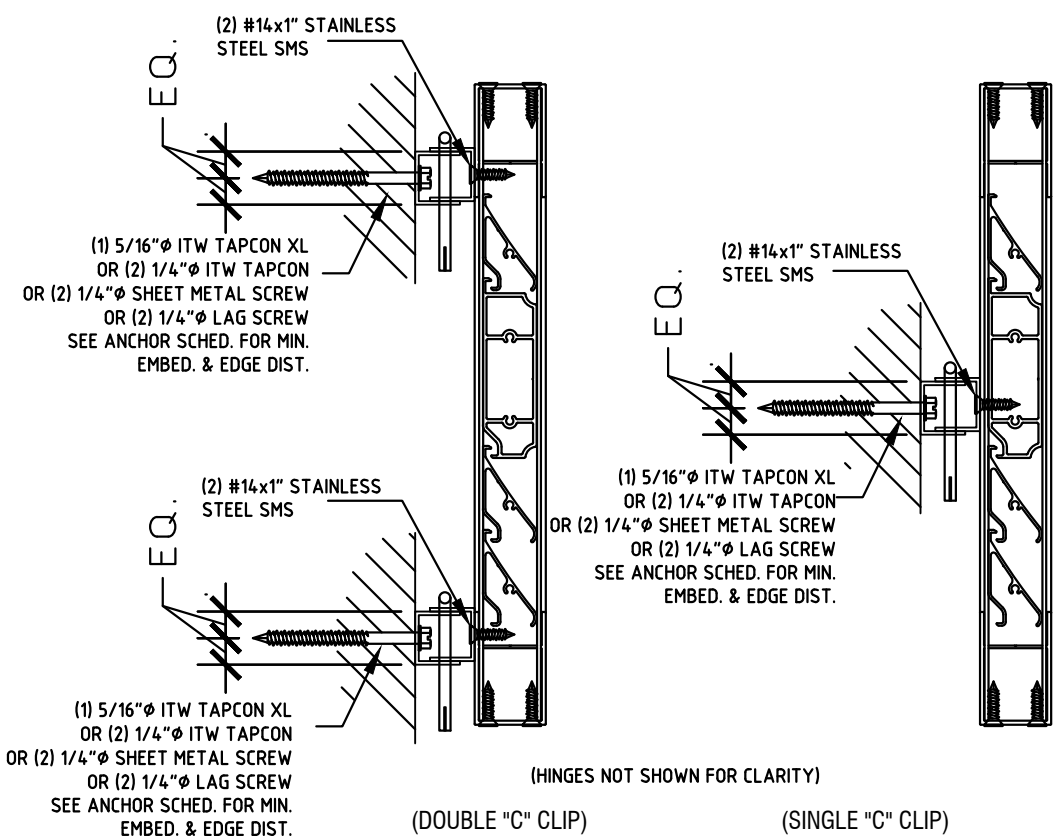
CLOSED POSITION

PLAN VIEW 2
SCALE: 1-1/2" = 1'-0"

OPEN POSITION LOCK
ANCHOR SCHEDULE:

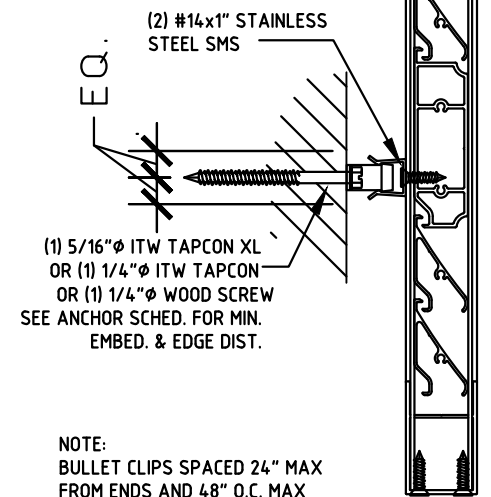
- WITH BULLET CLIPS:**

- TO 3192 PSI MIN. CONCRETE:**
- (1) 1/4" ITW SS TAPCON W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE.
- TO HOLLOW CONCRETE BLOCK:**
- (1) 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.
- TO G=0.42 MIN. WOOD HOST STRUCTURE:**
- (1) 1/4" WOOD SCREWS OR SHEET METAL SCREWS W/ 1-3/4" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.



NOTE:
CLIPS REQ'D TOP & BOTTOM FOR SPANS > 69". ONE CLIP REQ'D AT MID-SPAN ($\pm 3"$) FOR SPANS $\leq 69"$.

(X1) OPEN POSITION LOCK W/ "C" CLIP
SCALE: 3" = 1'-0"



NOTE:
BULLET CLIPS SPACED 24" MAX
FROM ENDS AND 48" O.C. MAX

(X2) OPEN POSITION LOCK W/ BULLET CLIP
SCALE: 3" = 1'-0"

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FBC 2023	MLD	CCB	8/21/23
-		-	-
-		-	-
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