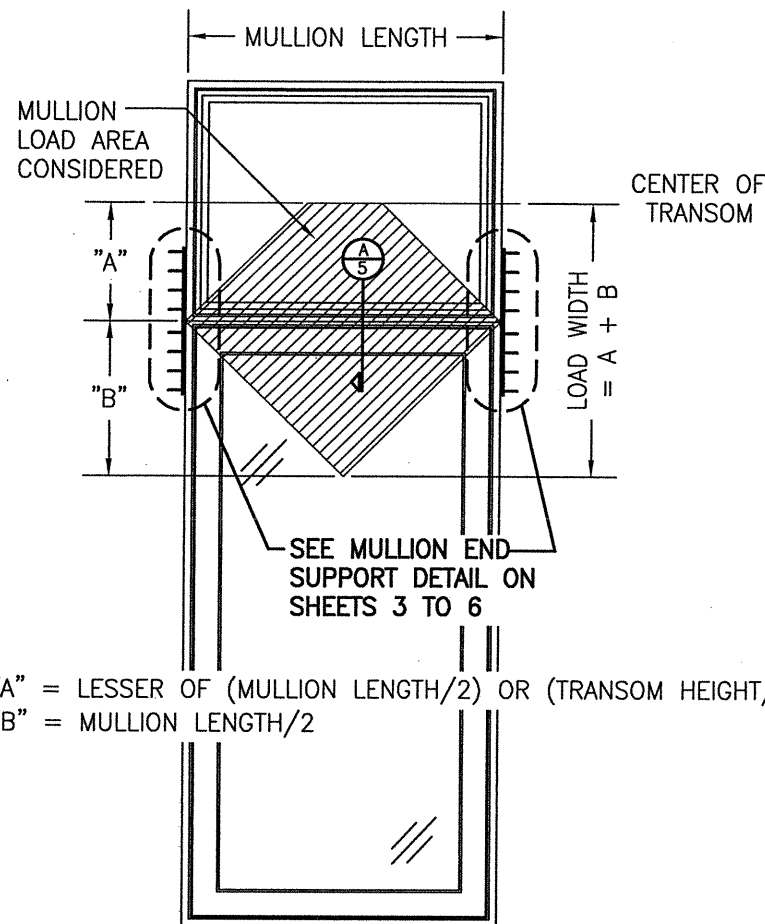




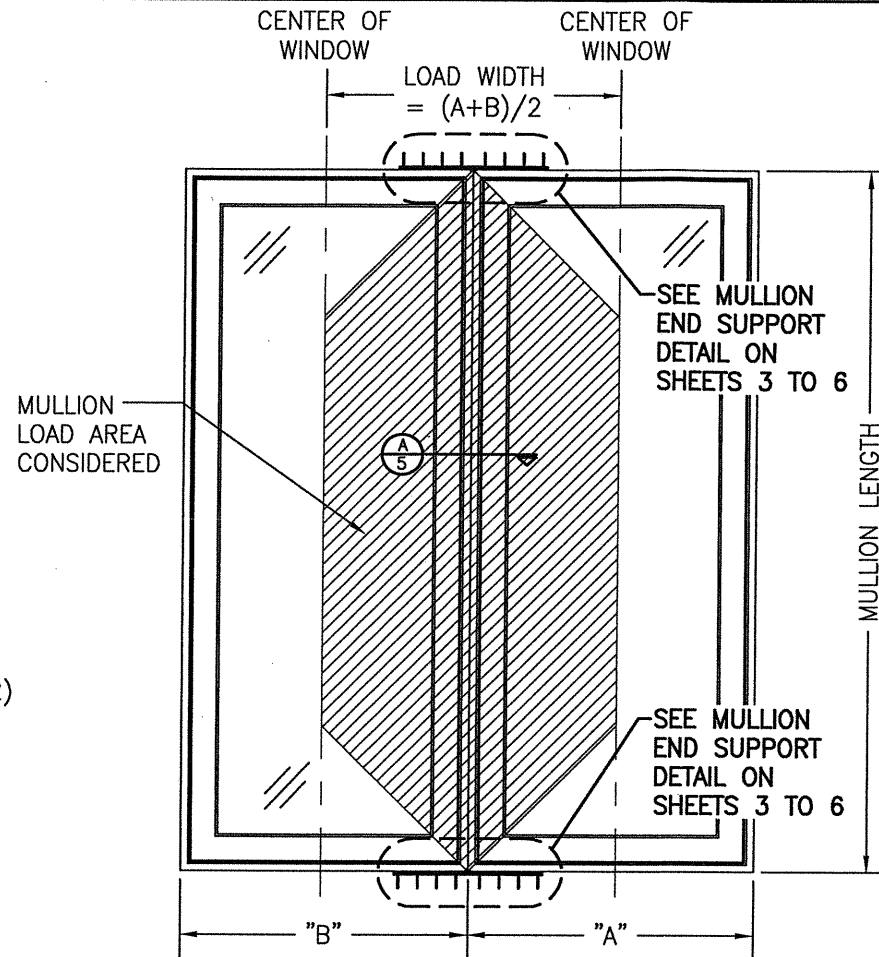
SINGLE WINDOW OR DOOR WITH FIXED TRANSOM
(SEE LOAD TABLE 1.0)

NOTES:

1. WINDOW/DOOR MAY BE ANY FIXED OR OPERABLE UNIT.
2. MULLION MAY BE HORIZONTAL OR VERTICAL.

GENERAL NOTES:

1. THESE MULLION SYSTEMS HAVE BEEN ANALYZED AND CERTIFIED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE LOAD TABLES.
2. OPENINGS, INCLUDING BUCKS (IF USED AS SUPPORT), MUST BE DESIGNED & CONSTRUCTED TO WITHSTAND WIND LOADS TRANSFERRED BY THE MULLIONS END REACTIONS & SUPPORTED WINDOWS/DOORS.
3. ALL MATERIALS & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THESE MULLION SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH & MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
5. ALLOWABLE PRESSURE ON THE MULLED UNIT SHALL BE CONTROLLED BY THE LESSER ALLOWABLE PRESSURE OF THE MULLION OR THE INDIVIDUAL DOOR/WINDOW UNITS.
6. WINDOW/DOOR SIZES SHALL BE AS RESTRICTED BY THEIR OWN INDIVIDUAL APPROVALS/CERTIFICATIONS.
7. FOR WINDOW OR DOOR FRAME TO OPENING ATTACHMENT, SEE THE RESPECTIVE PRODUCT CERTIFIED DRAWINGS/SPECIFICATIONS FOR THE WINDOW/DOOR.
8. MULLION LENGTHS ARE RESTRICTED BY THOSE SHOWN IN THE TABLES.
9. THE LOADS IN THESE TABLES CONSIDER WORSE CASE OF MULLION STRESS, DEFLECTION AND END REACTION.
10. ANY CONDITIONS NOT COVERED IN THIS CERTIFICATION SHALL BE SUBJECT TO SEPERATE ENGINEERING REVIEW.
11. ALL EMBEDMENTS SPECIFIED ARE TO BE BEYOND WALL FINISH.
12. MULLION BAR MUST BE CONTINUOUS END TO END.
13. WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOWS WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOWS. THESE MULLIONS ARE DESIGNED TO SUPPORT WIND LOAD ONLY & ARE NOT CONSIDERED TO SUPPORT DEAD LOAD OF THE WINDOWS/DOORS.
14. ALL ANCHORS SPECIFIED HERE-IN THAT ARE TO PENETRATE PRESSURE TREATED (P.T.) LUMBER SHALL BE OF A MATERIAL CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
15. DOORS & WINDOWS SHALL BE UNDER SEPERATE CERTIFICATION. SEE THE PRODUCTS SPECIFIC CERTIFICATION FOR THEIR USE.



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION LENGTH
(SEE LOAD TABLE 1.0)

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

16. THE FOLLOWING PEETZ WINDOWS AND DOORS PRODUCTS SHALL BE APPLICABLE FOR USE WITH THIS MULLION APPROVAL:

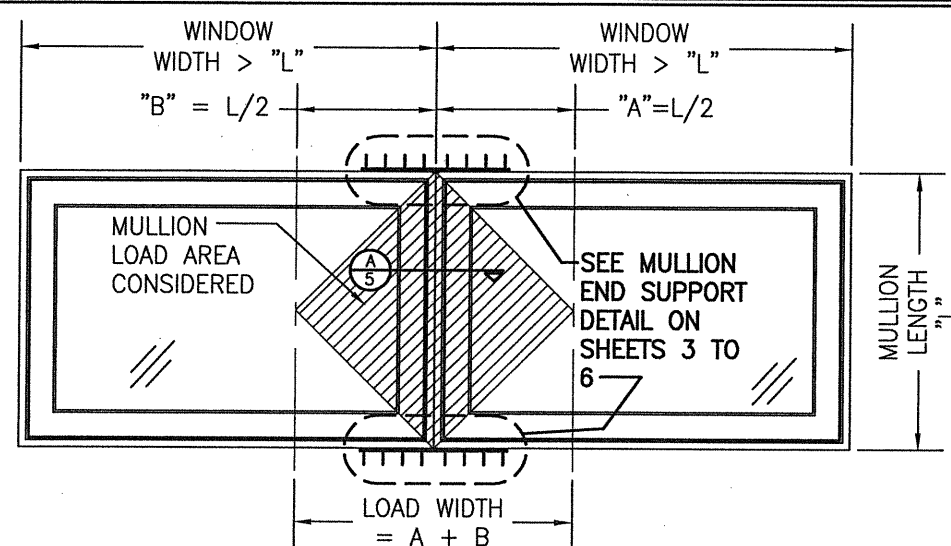
AMERICAN & EUROPEAN DIRECT GLAZED WOOD OR CLAD WINDOWS
AMERICAN IN & OUT-SWING FIXED & OPERABLE CASEMENT WOOD OR CLAD WINDOWS
AMERICAN IN & OUT-SWING WOOD OR CLAD DOORS
EUROPEAN IN-SWING FIXED & OPERABLE CASEMENT WINDOWS
DOUBLE & SINGLE HUNG WINDOWS
EUROPEAN OUT-SWING DOORS (FIXED & OPERABLE)
LIFT & SLIDE WOOD OR CLAD DOORS
BI-FOLD DOORS
ALUMINUM FRAMED OVERSIZED DIRECT GLAZE WINDOWS

OTHER PRODUCTS NOT LISTED SHALL BE SUBJECT TO SEPERATE REVIEW/APPROVAL FOR USE WITH THIS MULLION APPROVAL.

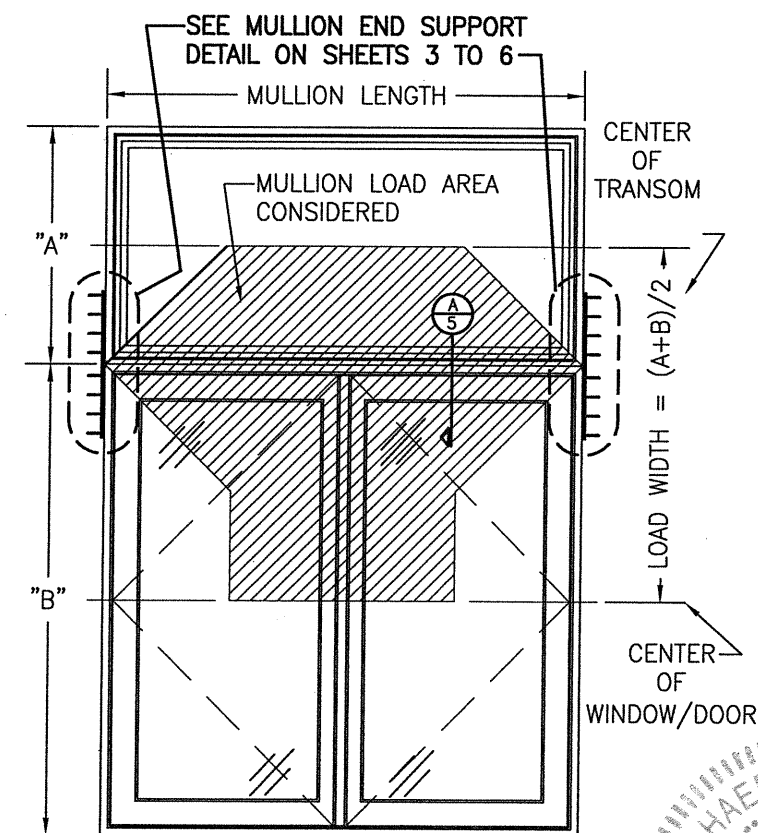
17. THIS MULLION SYSTEM HAS SUCCESSFULLY PASSED TESTING TO THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT.

18. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.

19. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE GREATER THAN THE MULLION LENGTH
(SEE LOAD TABLE 1.0)

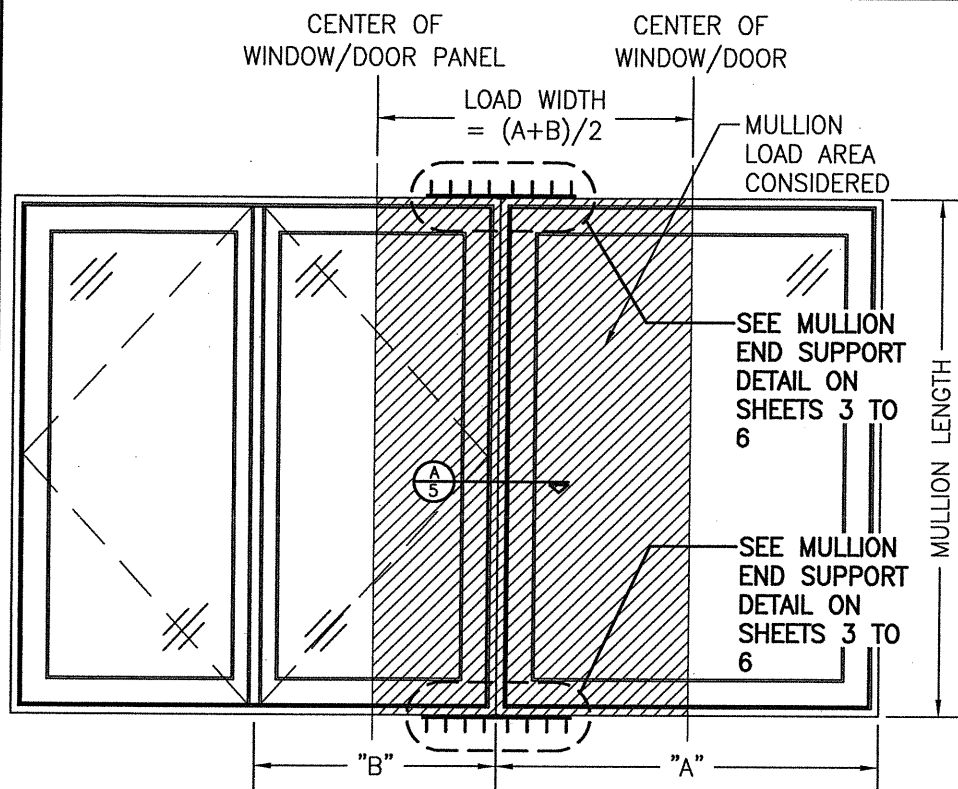


DOUBLE PANEL DOOR OR WINDOW WITH A SINGLE FIXED TRANSOM
(SEE LOAD TABLE 2.0)

NOTE: DOUBLE PANEL DOOR/WINDOW MAY BE A DOUBLE PANEL SLIDING OR SWING DOOR/WINDOW OR 2 INDIVIDUAL DOORS/WINDOWS.

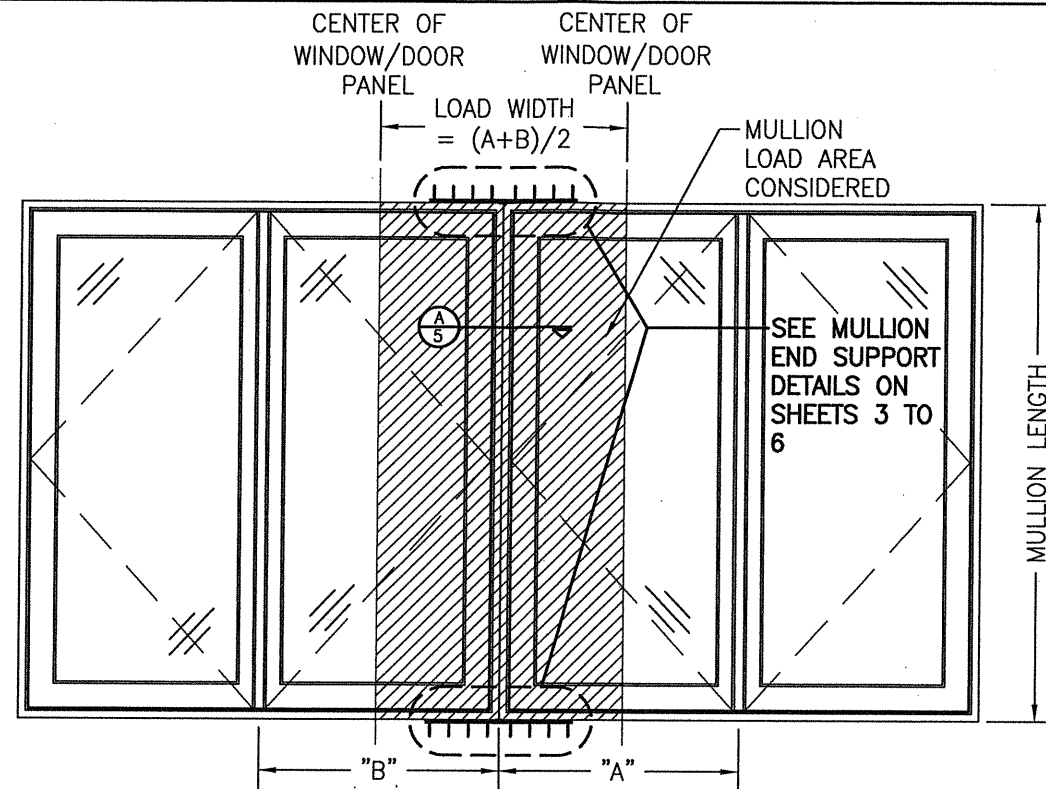
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/26/16	
NO.	REVISION DESCRIPTION	DATE	BY
A1	CHANGE TO STATE APPROVAL	04/17/20	W.W.S.
MANUFACTURER			
PEETZ WINDOWS & DOORS			
15951 S.W. 41ST STREET, SUITE 150			
WESTON, FL 33331			
954-659-3887			
CONSULTANTS			
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
7480 150TH COURT NORTH			
PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
P.E. NO. 44135			
DRAWING NO.		REV.	
1919		A	
SHEET NO.		1 OF 7	



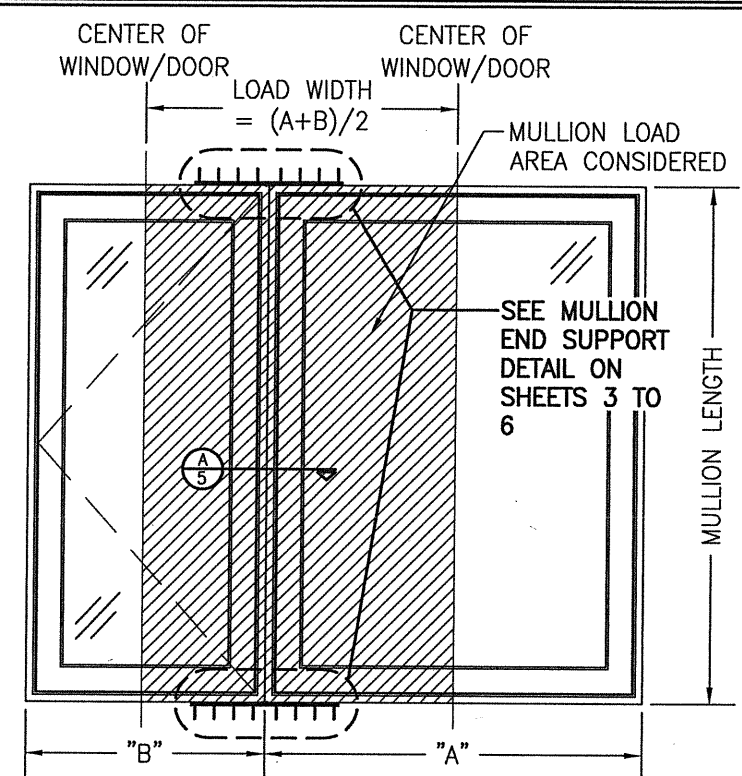
**MULTIPLE PANEL OPERABLE DOOR/WINDOW
TO A SINGLE DOOR/WINDOW
(SEE LOAD TABLE 3.0)**

NOTE: MULTIPLE PANEL DOORS/WINDOWS MAY BE SLIDING OR SWING.

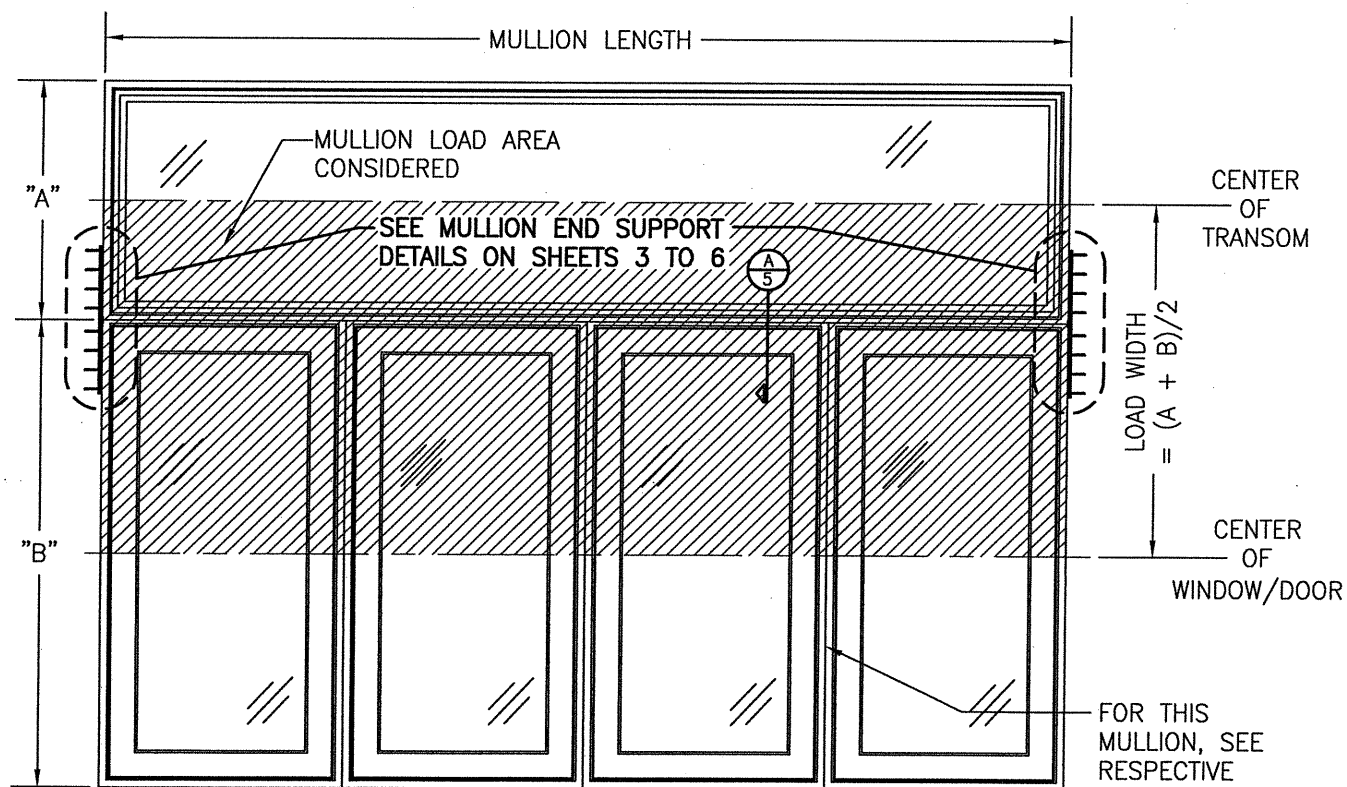


**MULTIPLE PANEL OPERABLE DOOR/WINDOW
TO A MULTIPLE PANEL DOOR/WINDOW
(SEE LOAD TABLE 3.0)**

NOTE: MULTIPLE PANEL DOORS/WINDOWS MAY BE SLIDING OR SWING.



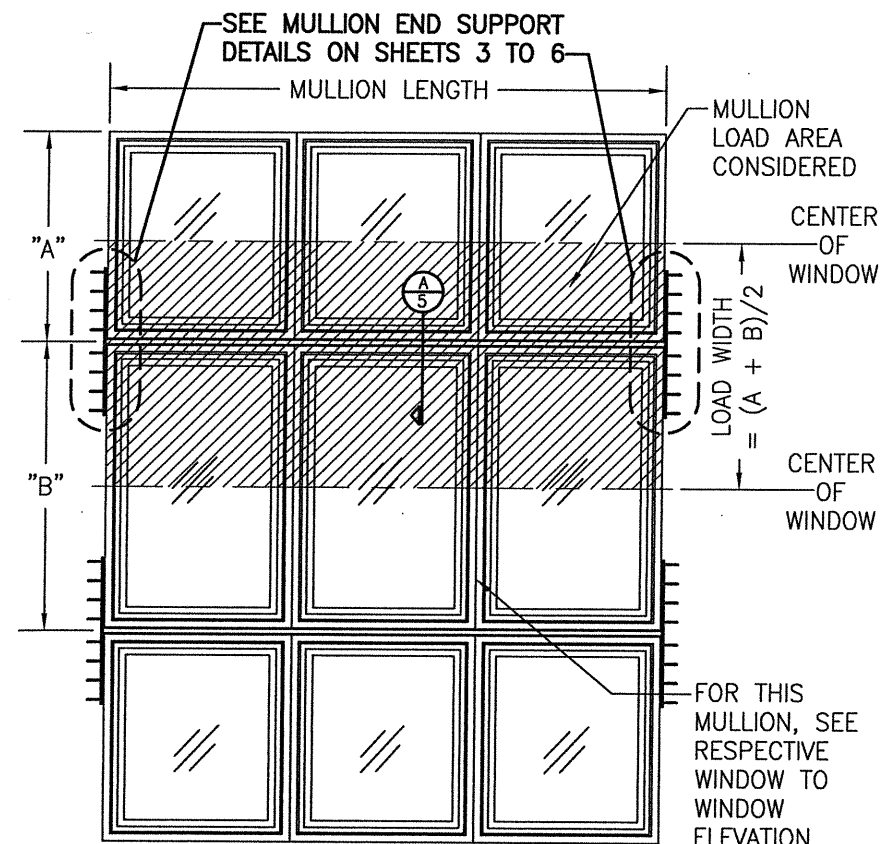
**SINGLE OPERABLE DOOR/WINDOW TO A
SINGLE OPERABLE OR FIXED DOOR/WINDOW
(SEE LOAD TABLE 3.0)**



**MULTIPLE WINDOWS/DOORS WITH TRANSOM
(SEE LOAD TABLE 3.0)**

NOTES: 1. TRANSOM MAY BE SINGLE OR MULTIPLE WINDOWS.

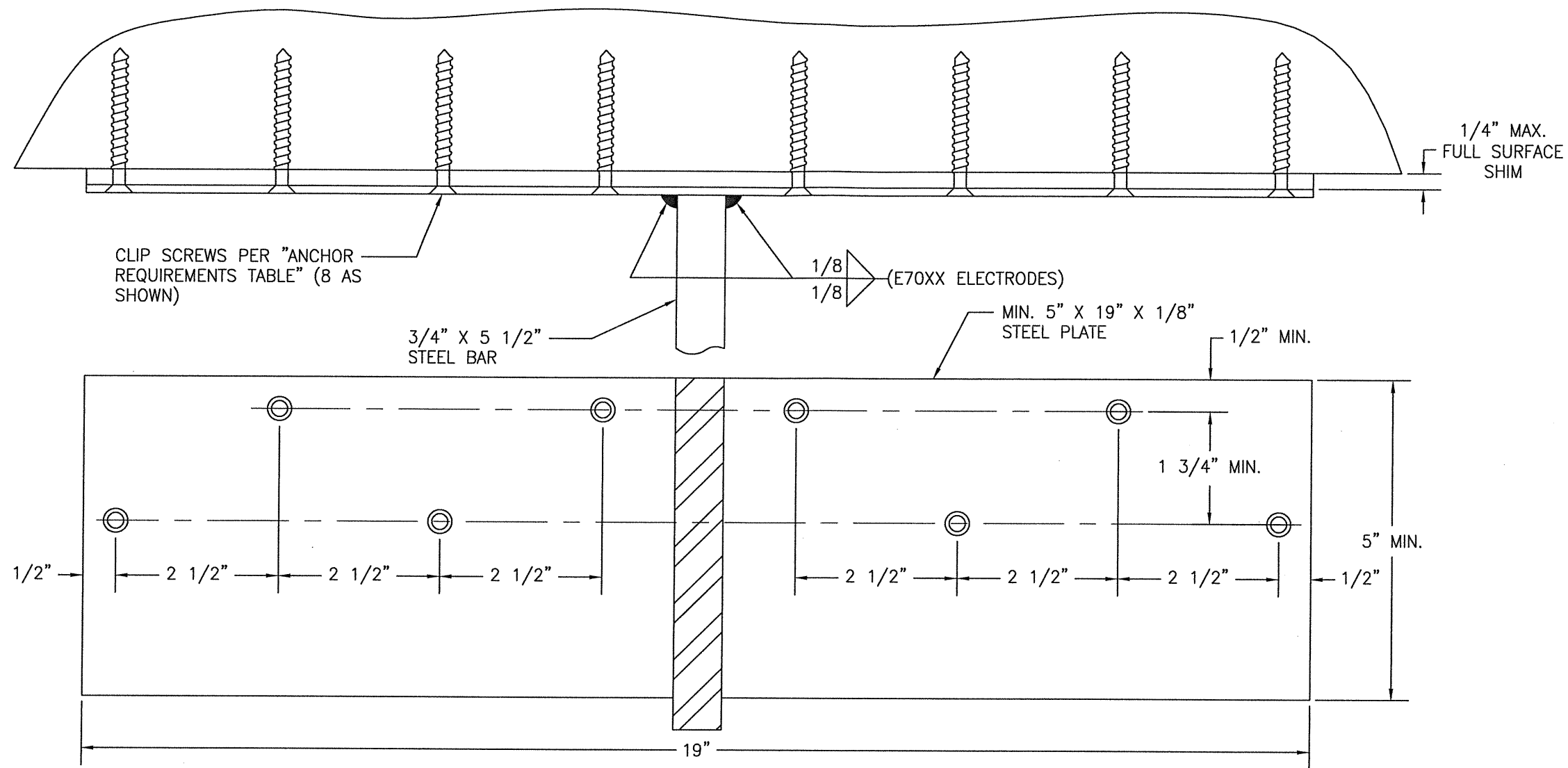
2. BOTTOM UNIT ALSO INCLUDES USE OF SLIDING DOORS/WINDOWS & BI-FOLD DOORS.



MULTIPLE WINDOWS (SEE LOAD TABLE 3.0)

NOTE: CONTINUOUS MULLION MAY BE HORIZONTAL OR VERTICAL (HORIZONTAL SHOWN).

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 05/28/16
DATE	BY
REVISION DESCRIPTION	NO.
PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JUN 02 2020 WARREN W. SCHAEFER LICENSE No. 44135 P.E. NO. 44135	
DRAWING NO. 1919	REV. A
SHEET NO. 2	OF 7



MULLION END SUPPORT DETAIL OPTION 1A
(APPLICABLE WITH ALL SUBSTRATES EXCEPT CMU)

END PLATE ANCHOR REQUIREMENTS TABLE

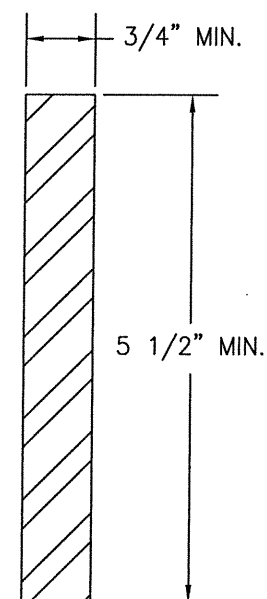
END PLATE SCREWS

OPENING TYPE (SUBSTRATE)	PLATE TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	1"
MIN. 16 GA. 50 KSI METAL STUD	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	1/4" GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CONCRETE FILLED CMU	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

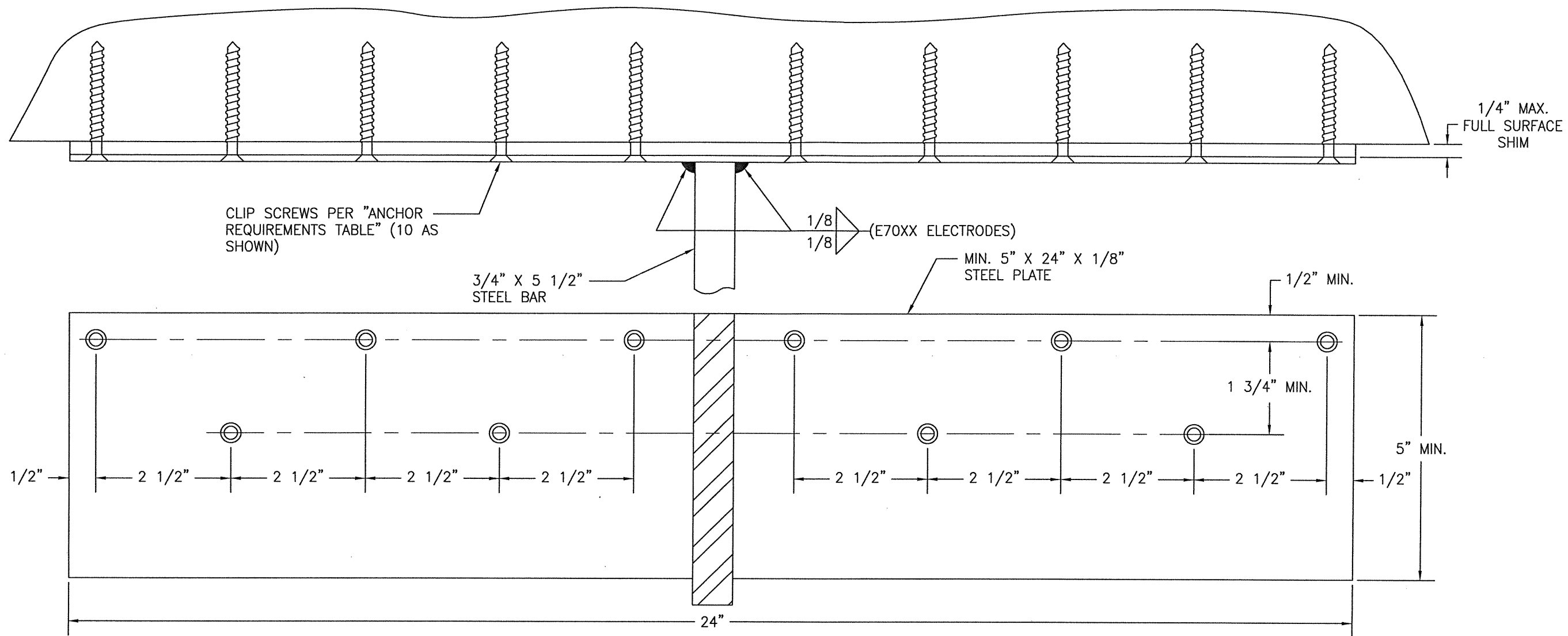
END PLATE ANCHOR NOTE:

THESE MULLIONS MAY BE T'd TOGETHER. WHEN END ATTACHED TO ANOTHER STEEL BAR MULLION, THE END PLATE FASTENERS SHALL BE GRADE 5 1/4" SELF TAP/DRILL SCREWS OR 1/4-16 OR 20 MACHINE SCREWS.



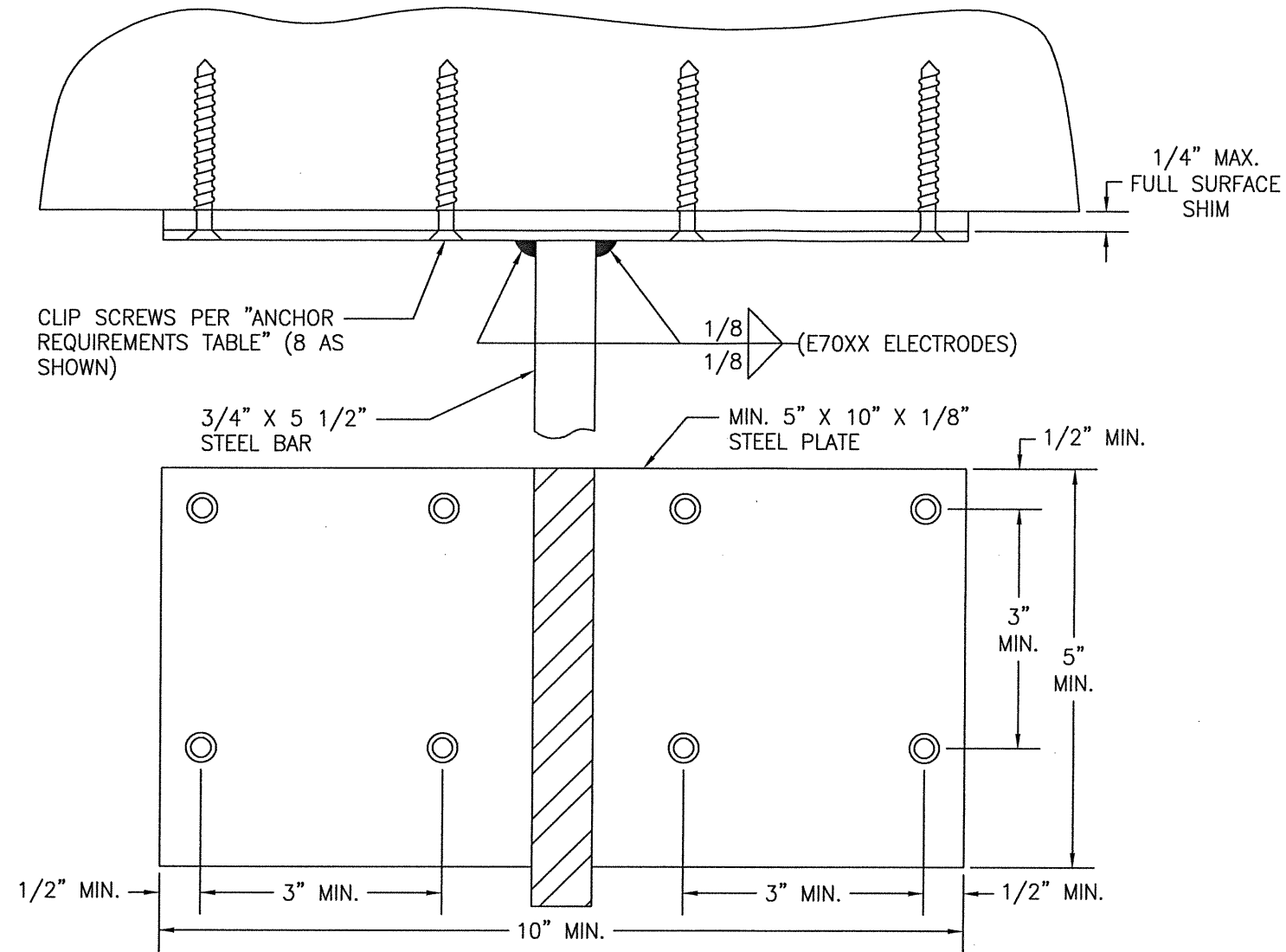
STEEL BAR MULLION
(A36 STEEL)

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/26/16	
DATE	BY	REVISION DESCRIPTION	NO.
STEEL BAR CLIPPED IMPACT MULLION MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887 CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION WARREN W. SCHAEFER P.E. NO. 44135 JUN 02 2020			
DRAWING NO. 1919		REV. A	
SHEET NO. 3		OF 7	

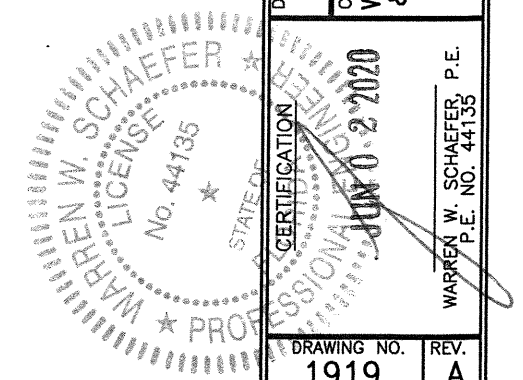


MULLION END SUPPORT DETAIL OPTION 1B
 (APPLICABLE WITH CMU SUBSTRATE)

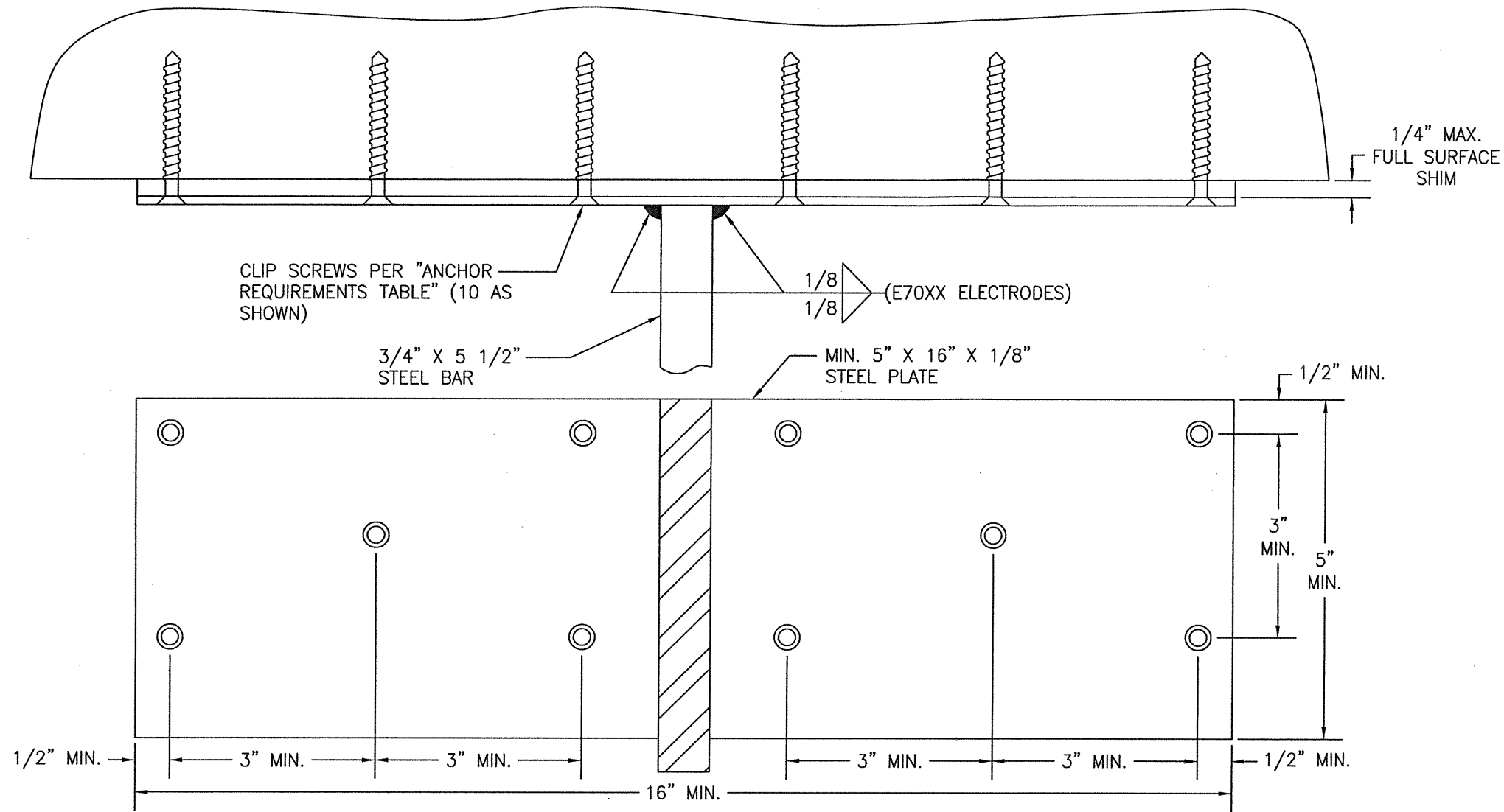
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/26/16	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE STEEL BAR CLIPPED IMPACT MULLION			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887	
CERTIFICATION I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT REPRESENTATION OF THE WORK DONE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL ENGINEERING ACT. WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA JUN 02 2020		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1919		REV. A	
SHEET NO. 4		OF 7	



MULLION END SUPPORT DETAIL OPTION 2A
 (APPLICABLE WITH ALL SUBSTRATES EXCEPT CMU)

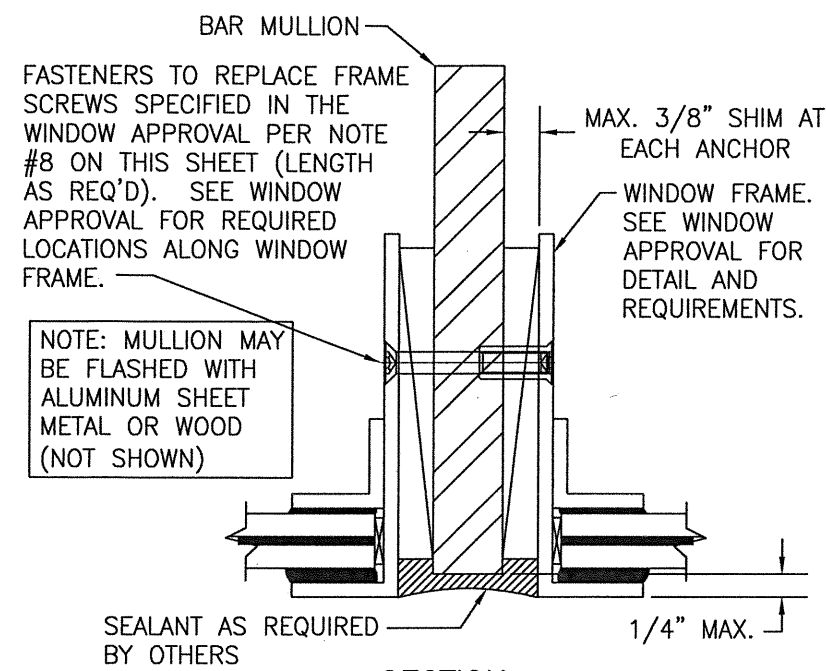


DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/26/16	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE STEEL BAR CLIPPED IMPACT MULLION		MANUFACTURER PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET; SUITE 150 WESTON, FL 33331 954-659-3887	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		JUN 02 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1919		REV. A	
SHEET NO. 5		OF 7	

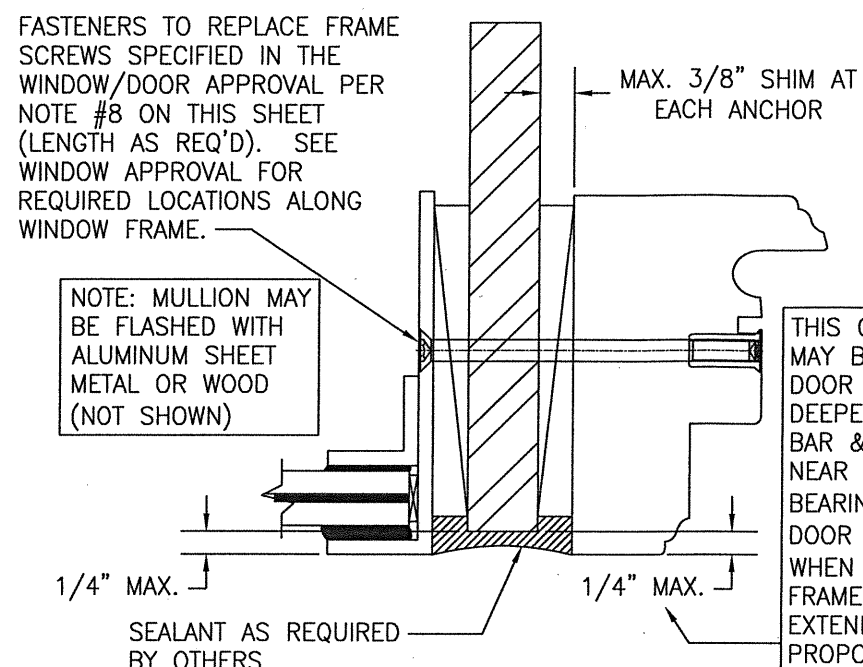


MULLION END SUPPORT DETAIL OPTION 2B
(APPLICABLE WITH CMU SUBSTRATE)

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 05/26/16	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: STEEL BAR CLIPPED IMPACT MULLION CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER: PEETZ WINDOWS & DOORS 15951 S.W. 41ST STREET, SUITE 150 WESTON, FL 33331 954-659-3887			
CERTIFICATION JUN 02 2020 WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1919		REV. A	
SHEET NO. 6		OF 7	



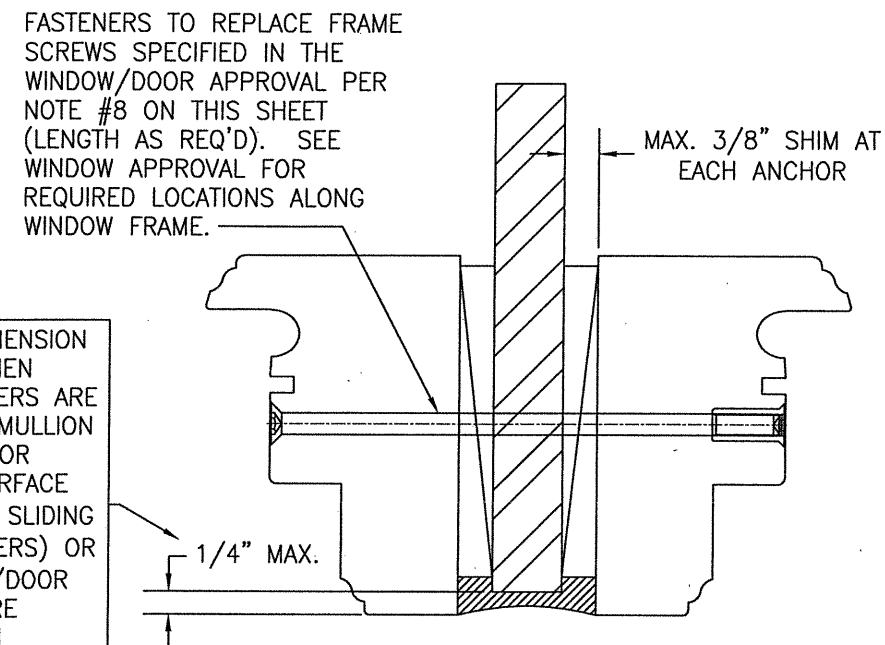
SECTION A
SCALE: 1/2" FULL
(ALUMINUM FRAMED WINDOW EACH SIDE)



SECTION A
5

SCALE: 1/2" FULL

(ALUMINUM FRAMED WINDOW ONE SIDE; WOOD/CLAD WINDOW/DOOR FRAME ON OTHER SIDE)



SECTION A
5
SCALE: 1/2" = 1'-0"
(WOOD OR CLAD WINDOW/DOOR EACH SIDE)

MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/-PSF)
132	99	75

LOAD TABLE 2.0		
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/-PSF)
132	96	61.9
	90	66.0
	84	70.7
	79	75.0
126	96	67.9
	90	72.4
	86	75.0
120	96	74.8
	95	75.0
119	96	75.0

NOTE: THE LOADS IN THESE TABLES ARE RESTRICTED TO A MAXIMUM OF 75 PSF. USE OF THESE MULLIONS WITH REQUIRED DESIGN PRESSURES ABOVE 75 PSF OR WITH CONDITIONS OUTSIDE OF THESE TABLES SHALL BE SUBJECT TO SEPARATE REVIEW & CERTIFICATION BY A FLORIDA LICENSED STRUCTURAL ENGINEER & REVIEW BY THE GOVERNING BUILDING OFFICIAL.

MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/-PSF)	MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/-PSF)
132	96	48.0	114	96	55.6
	90	51.2		90	59.3
	84	54.9		84	63.5
	78	59.1		78	68.4
	72	64.0		72	74.1
	66	69.8		71	75.0
	61	75.0			
126	96	50.3	108	96	58.7
	90	53.6		90	62.6
	84	57.5		84	67.0
	78	61.9		78	72.2
	72	67.0		75	75.0
	66	73.1	102	96	62.1
	64	75.0		90	66.3
		84		71.0	
120	96	52.8		79	75.0
	90	56.3	96	96	66.0
	84	60.3		90	70.4
	78	65.0		84	75.0
	72	70.4	90	96	70.4
	67	75.0		90	75.0
			84	96	75.0

DUE TO LOAD AREA BEING CONSIDERED AS FULLY RECTANGULAR, THE PRESSURES STATED IN THIS TABLE MAY BE CONSERVATIVE. A JOB SPECIFIC REVIEW & CERTIFICATION MAY BE COMPLETED BY W. W. SCHAEFER FOR ANY JOB TO POTENTIALLY ALLOW FOR SLIGHTLY HIGHER PRESSURES THAN THOSE STATED HERE-IN. ANY JOB SPECIFIC REVIEW IS CONSIDERED OUT-SIDE OF & SEPARATE FROM THIS APPROVAL & IS SUBJECT TO REVIEW BY THE GOVERNING BUILDING OFFICIAL.

- NOTES:
1. POSITION OF WINDOW/DOOR FRAMES ON THE MULLION BAR MAY VARY FROM THAT SHOWN BUT MAY NOT OVERHANG THE BAR EDGE BY MORE THAN THAT SPECIFIED IN THE SECTIONS.
 2. WOOD AND/OR METAL FLASHING OR MULLION CAPS, WHILE NOT SHOWN, MAY BE USED AS REQUIRED TO ENCAPSULATE THE MULLION BAR (NOT REQUIRED NOR COVERED BY THIS APPROVAL).
 3. ALL EXTERIOR JOINTS SHALL BE PROPERLY SEALED WITH SEALANT FOR A PERMANENT WATER TIGHT SEAL.
 4. WINDOW/DOOR FRAMES MAY BE PLACED DIRECTLY AGAINST THE BAR OR SHIMMED UP TO 3/8". WHEN SHIMMED, SHIMS SHALL BE POSITIONED AT EACH ANCHOR LOCATION AS SPECIFIED IN THE WINDOW/DOOR APPROVAL.
 5. PEETZ AMERICAN WOOD DOOR FRAMES & ALUMINUM WINDOW FRAMES ARE SHOWN IN THESE SECTIONS. ALL OTHER PEETZ WOOD AND CLAD WOOD WINDOW/DOOR FRAMES APPLY AND SHALL BE INSTALLED SIMILAR TO THAT SHOWN.
 6. FOR ALL WINDOW AND DOOR DETAILS, SEE THEIR RESPECTIVE APPROVALS.
 7. WHEN 2 DIFFERENT PRODUCTS ARE BEING MULLED TOGETHER, THE LESSER FRAME SCREW SPACING SPECIFIED IN EACH RESPECTIVE PRODUCT APPROVAL SHALL BE USED WITH THIS MULLION.
 8. FASTENERS USED TO JOIN THE FRAME MEMBERS TO THE MULLION BAR SHALL BE ONE OF THE FOLLOWING:
OPTION 1) 1/4" SCREW WITH FEMALE THREADED ADAPTOR; OPTION 2) 1/4" MACHINE OR SELF TAP/DRILL SCREW THREADED INTO THE BAR WITH MIN. 1/2" THREAD EMBED; OPTION 3) #14 WOOD OR SMS SCREW THROUGH PRE-PUNCHED HOLES IN THE BAR AND INTO OPPOSING FRAME MEMBER (MUST EMBED OPPOSING FRAME MEMBER MINIMUM 1 1/4"). WHEN OPTION 2 OR 3 IS USED, THE SCREWS SHALL BE APPLIED FROM BOTH SIDES OF THE MULLION (A SCREW FROM ONE SIDE CAN NOT BE CONSIDERED TO SUPPORT BOTH FRAME MEMBERS).
 9. CONDITIONS OTHER THAN THOSE SHOWN HERE-IN SHALL BE EVALUATED SEPARATELY FOR EACH INDIVIDUAL JOB, CERTIFIED BY A FLORIDA LICENSED ENGINEER & ARE SUBJECT TO REVIEW BY THE GOVERNING BUILDING OFFICIAL.

[illegible]