

SERIES 5470, NON-IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90°/135° CORNERS

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1, 2 & B1, B2 ON SHEETS 7 & 8	NOT RATED FOR MISSILE IMPACT RESISTANCE

GENERAL NOTES:

- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND 2018 INTERNATIONAL RESIDENTIAL CODE (IRC).
- 2) A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER TEST PRESSURE AND GLASS PER ASTM E1300.
- 3) ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE IBC/IRC.
- 4) SHUTTERS ARE REQUIRED PER IBC/IRC REQUIREMENTS, AS APPLICABLE.
- 5) INSTALLATION SCREWS & FRAME SPLICES TO BE SEALED WITH NARROW JOINT SEALANT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) REFERENCES (NOA'S): ELCO ULTRACON, CRETEFLEX & AGGREGATOR ANCHOR NOA'S, VISION EXTRUSION, LTD. WHITE RIGID PVC NOA, VE 1000 TAN 202 AND LIGHTER SHADES (NON-WHITE) RIGID PVC NOA AND BROWN COATED (PAINTED OR LAMINATED) WHITE RIGID PVC NOA
REFERENCES (TEST REPORTS): FTL-6367-6371 & 8545; EXOVA-10-002-792(A) & 10-006-10231; CAMBRIDGE 535753-09;
- 7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE IBC/IRC, AS APPLICABLE.
- 8) DRAWINGS DEPICT EXTERIOR-GLAZING, HOWEVER INTERIOR-GLAZING MAY BE SUBSTITUTED.

ANCHOR NOTES:

- 1) SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- 2) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- 3) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AHJ.

INSTRUCTIONS:

- 1) KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE REINFORCEMENT LEVEL DESIRED.
- 2) LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.
- 3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
- 4) FROM THE DESIGN PRESSURE TABLES (TABLES 1 OR 2), VERIFY THAT THE OPENING'S REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
- 5) INSTALL AS PER THE GUIDELINES OF THIS SHEET-SET.
- 6) ADDITIONALLY, SEE THE EXAMPLE ON SHEET 9.

TABLE B:

Nominal Panel Size		Design Pressure		Minimum Sill	Certification
Width	Height	(+) psf	(-) psf	Riser Height	
60"	96"	60	60	3-1/2"	190-771
48"	120"	60	65	3-1/2"	190-774
48"	96"	60	60	3-1/2"	190-770
48"	96"	80	80	4-1/16"	190-772

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TABLE A:

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12, steel SMS (G5) or 410 S.S. SMS, (min. 11 threads/in)	P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
		Aluminum, 6063-T5* (0.125" min. thickness)	Head/Sill/Jamb	3/8"	1/8"
			P-hook	3/8"	1/8"
		Steel, A36* (0.060" min. thickness)	Head/Sill/Jamb	3/8"	0.060"
			P-hook	3/8"	0.060"
	Steel Stud, A653 Gr. 33* (0.071" min. thickness)	Head/Sill/Jamb	3/8"	0.071" (14 Ga.)	
		P-hook	3/8"	0.071" (14 Ga.)	
	1/4" Elco Ultracon	P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
1/4" DeWalt Ultracon+	P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"	
		P-hook	1"	1-3/8"	
1/4" Elco 410 S.S. CreteFlex	P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"	
		P-hook	1"	1-3/8"	
B	#12, steel wood screw (G5)	P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	9/16"	1-3/8"
			P-hook	9/16"	1-3/8"
C	1/4" Elco Ultracon	Concrete (min. 2.85 ks)	P-hook	1"	1-3/8"
			Head/Sill/Jamb	1-3/16"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	1"	1-1/4"
			P-hook	1"	1-1/4"
	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ks)	P-hook	1"	1-3/8"
			Head/Sill/Jamb	1-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	1"	1-1/4"
			P-hook	1"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	UngROUTED CMU, (ASTM C-90)	Jamb	1-3/4"	1-1/4"
			P-hook	1-3/4"	1-1/4"
		Concrete (min. 3.35 ks)	Head/Sill/Jamb	1-3/16"	1-3/4"
			P-hook	1"	1-3/4"
	1/4" Elco 18-8 S.S. Aggre-Gator	Concrete (min. 2.22 ks)	Head/Sill/Jamb	1-1/2"	1-3/8"
			P-hook	1-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	2"	1-1/4"
			P-hook	2"	1-1/4"
		P.T. Southern Fine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
			P-hook	1"	1-3/8"
D	1/4" Elco Ultracon	Concrete (min. 2.85 ks)	Head/Sill/Jamb	2-1/2"	1-3/8"
			P-hook	2-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"
	1/4" DeWalt Ultracon+	Concrete (min. 3.00 ks)	Head/Sill/Jamb	2-1/2"	1-3/8"
			P-hook	2-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"
	1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ks)	Head/Sill/Jamb	2-1/2"	1-3/4"
			P-hook	2-1/2"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	Jamb	2-1/2"	1-1/4"
			P-hook	2-1/2"	1-1/4"


* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

FOR STEEL STUDS, MIN. FU=45 KSI & MIN. FY=33 KSI.

"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

ALL ANCHOR HEAD TYPES ARE APPLICABLE.

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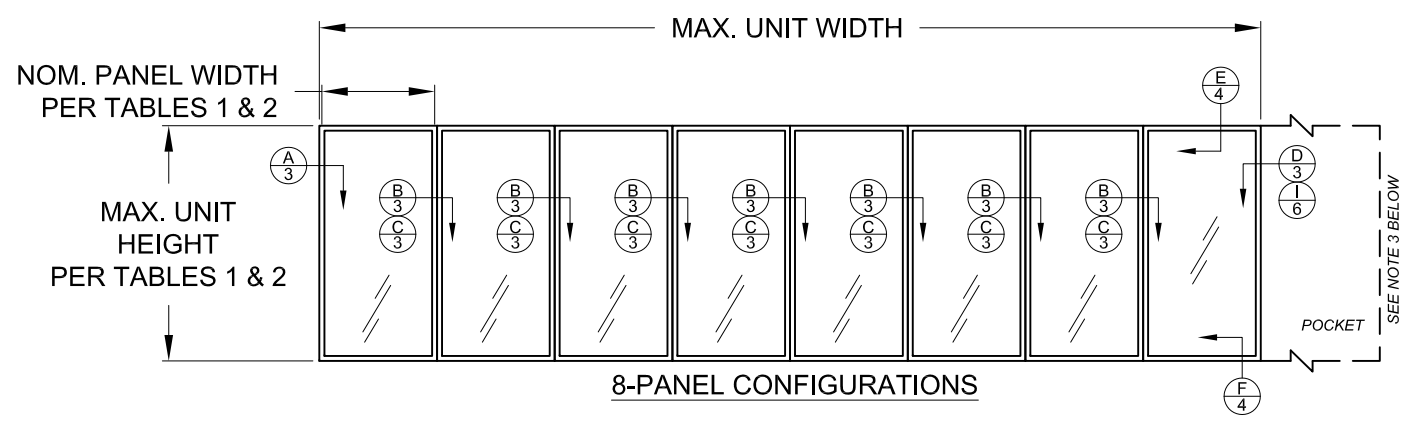
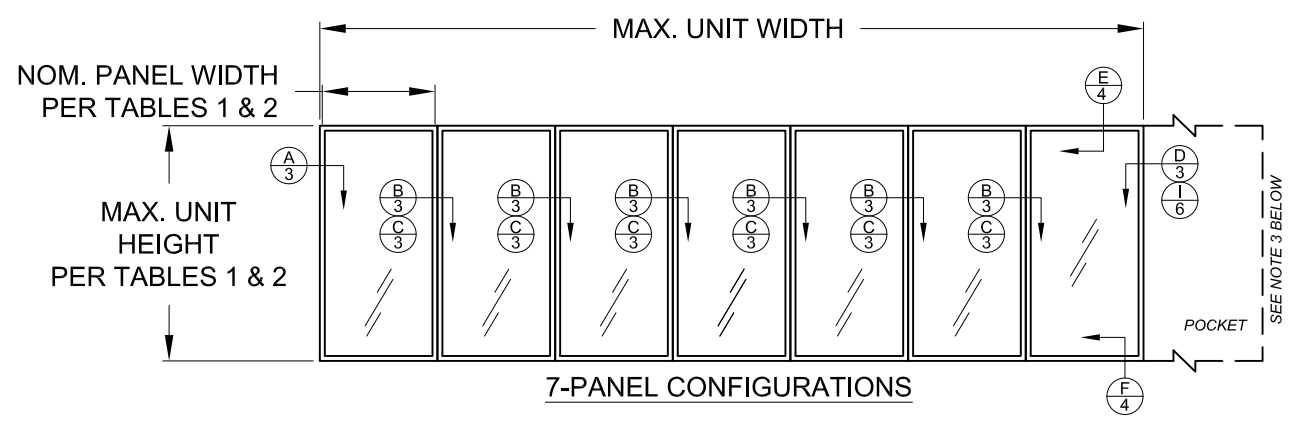
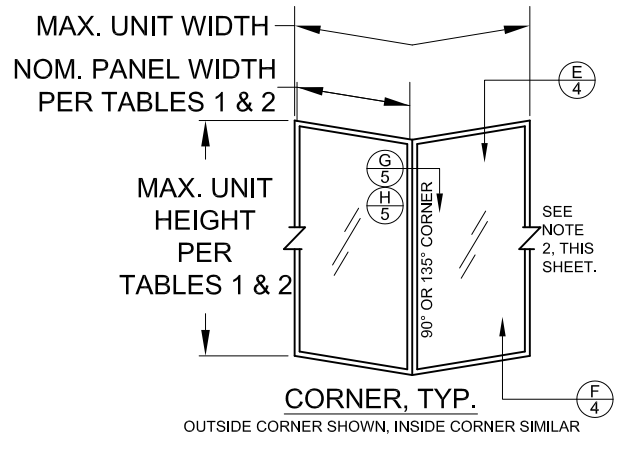
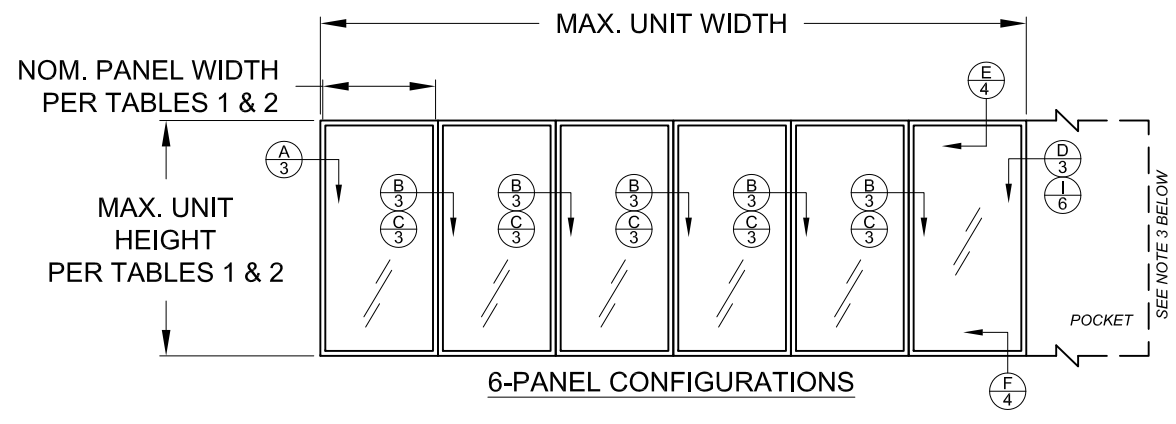
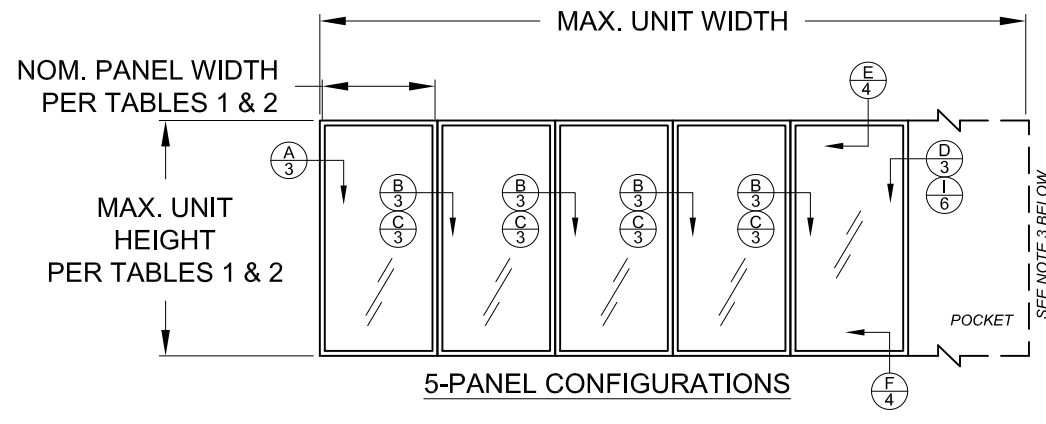
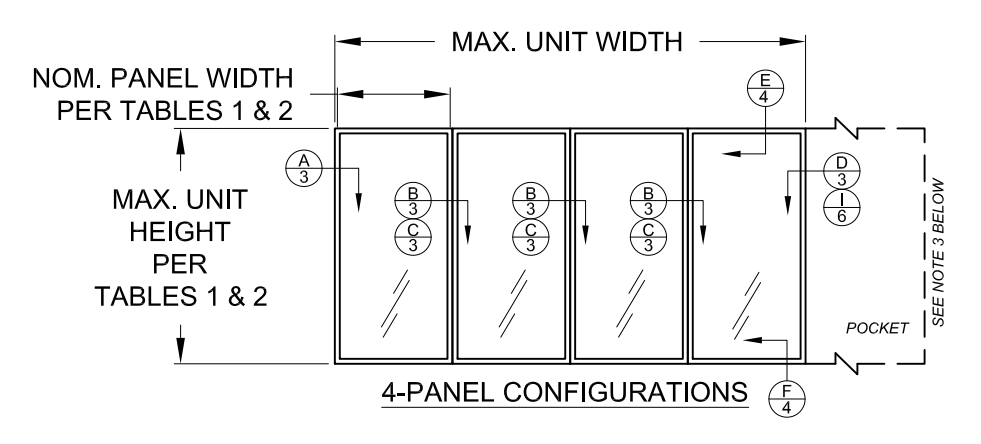
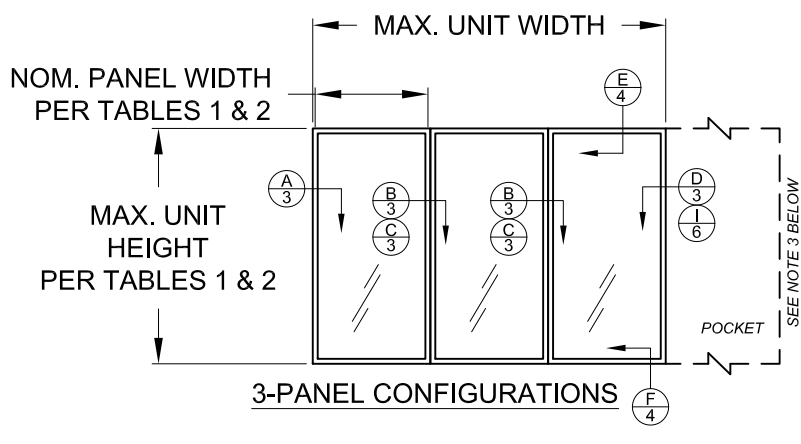
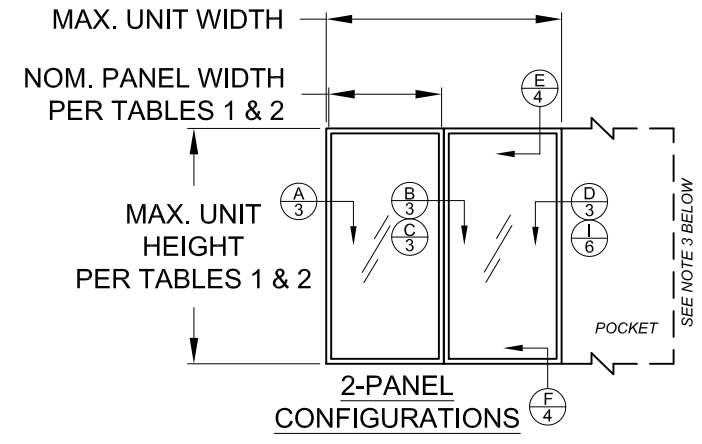
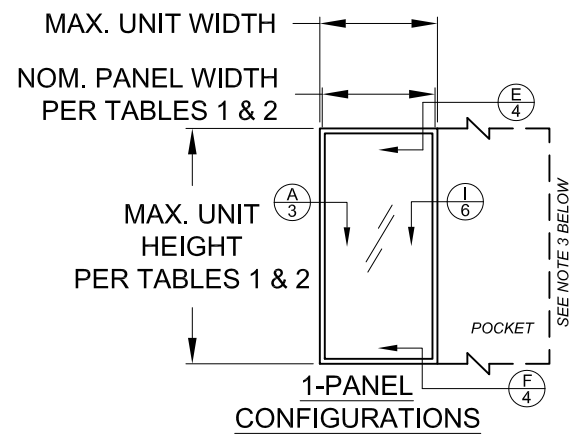
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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series	Rev B	Rev A	Title	Date	3/24/16		
			VINYL SLIDING GLASS DOOR TDI				
			GENERAL NOTES	Drawn By	J ROSOWSKI		
			ADDED ANCHORS TYPES - JR	Rev A Date	05/25/21		
			SGD-5470	Scale	NTS		Sheet
			1 OF 25	DWG No.	TDI-SGD5470.2		Rev. No.
							A

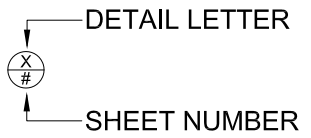


CONFIGURATIONS NOTES:

- 1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.
- 2) 90° & 135° CORNER CONFIGURATIONS ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.
- 3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 4) FOR NOM. PANEL WIDTH, SEE TABLES 1 & 2.

"X" = OPERABLE PANEL
 "O" = INOPERABLE PANEL
 "p" = POCKET

DLO WIDTH = NOM. PANEL WIDTH - 7-3/8"
 DLO HEIGHT = DOOR HEIGHT - 11-1/16"
 PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

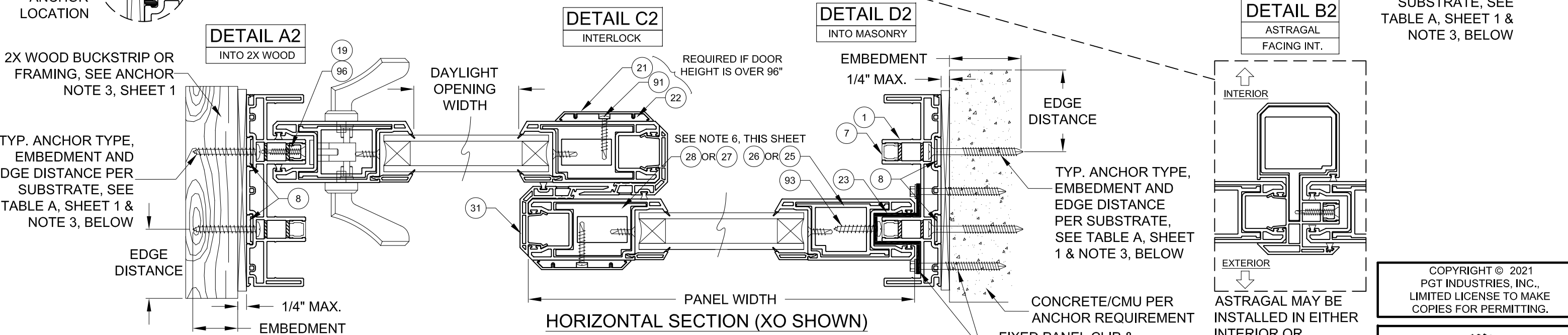
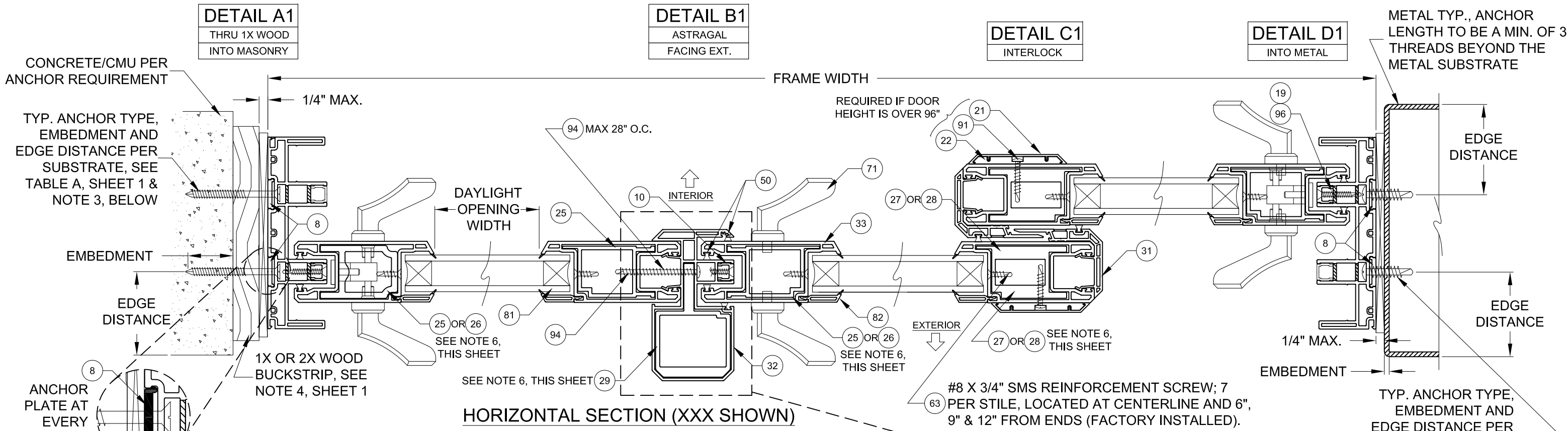


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Series	Rev B	Rev A	Title		Date
SGD-5470			VINYL SLIDING GLASS DOOR TDI		3/24/16
Scale	NTS	Sheet	2 OF 25		DWG No.
			TDI-SGD5470.2		Rev. No.
					A

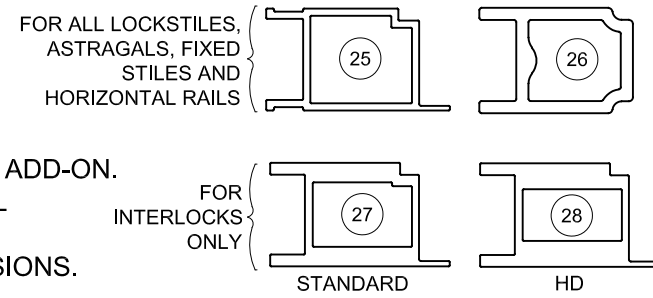
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- NOTES**
- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) REFER TO ANCHOR NOTES, SHEET 1.
 - 3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 - 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
 - 5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
 - 6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS. ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
 - 7) SEE SHEET 20 FOR SCREEN DETAILS.

REINFORCEMENT TYPES (SEE NOTE 6, THIS SHEET)



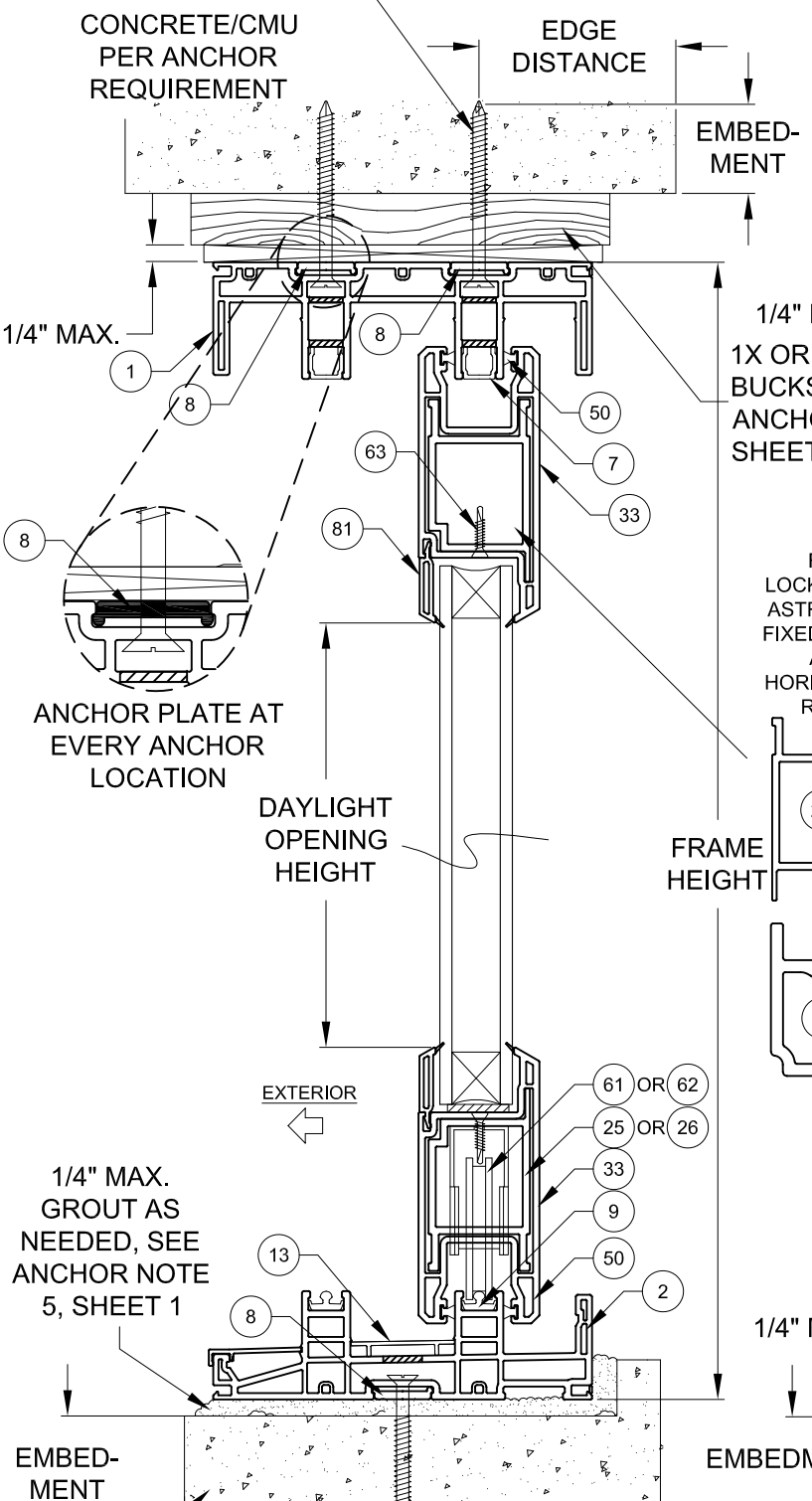
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Series	Rev A	Desc.	Title	Date
SGD-5470		NTS	VINYL SLIDING GLASS DOOR TDI INSTALLATION, HORIZONTAL X-SECT.	3/24/16
		Sheet	3 OF 25	
		DWG No.	TDI-SGD5470.2	
		Rev A	Rev A Date	05/25/21
		Rev B	Rev B Date	
		Rev No.	A	

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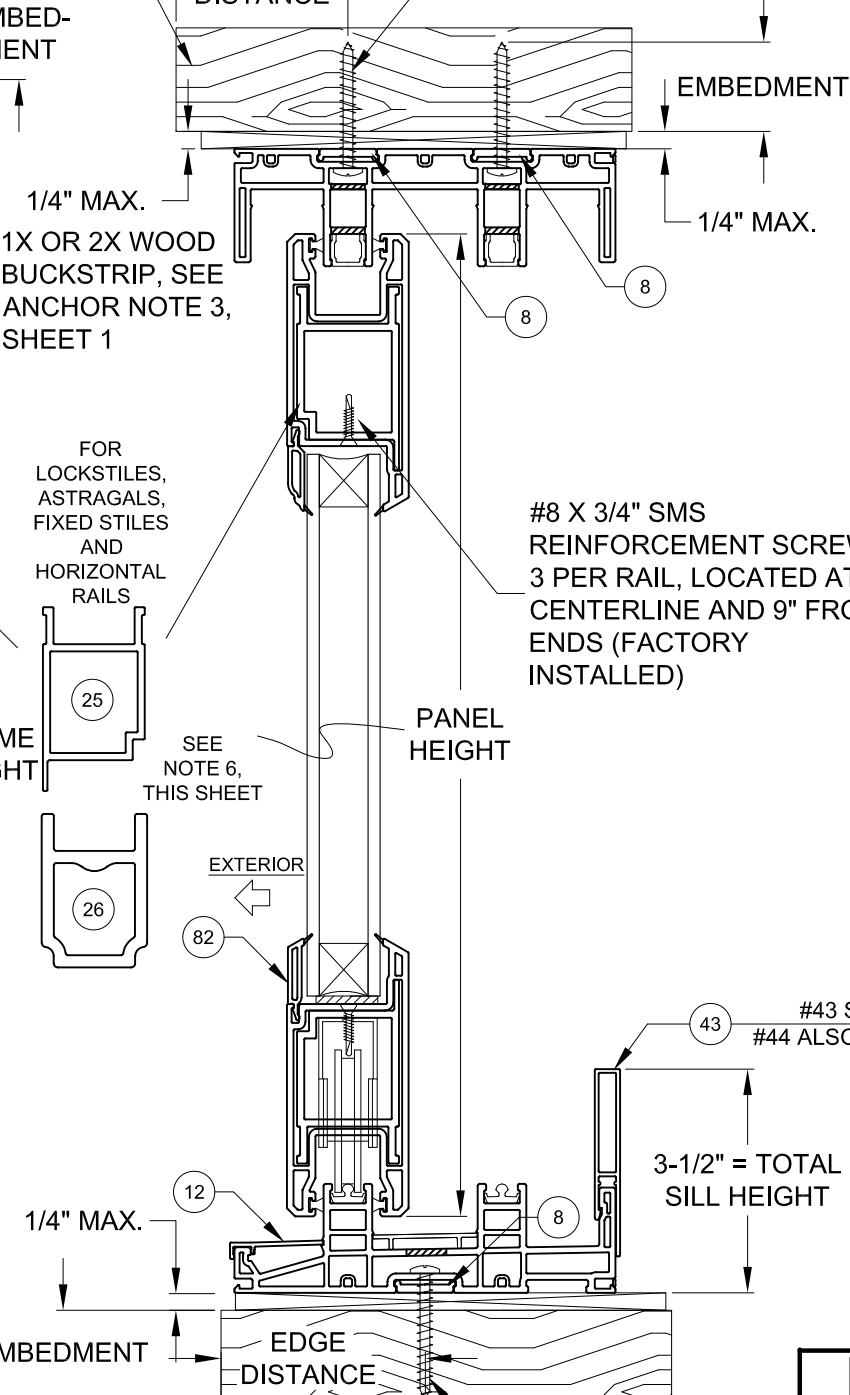
DETAIL E1
INTO MASONRY
1X BUCKSTRIP

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

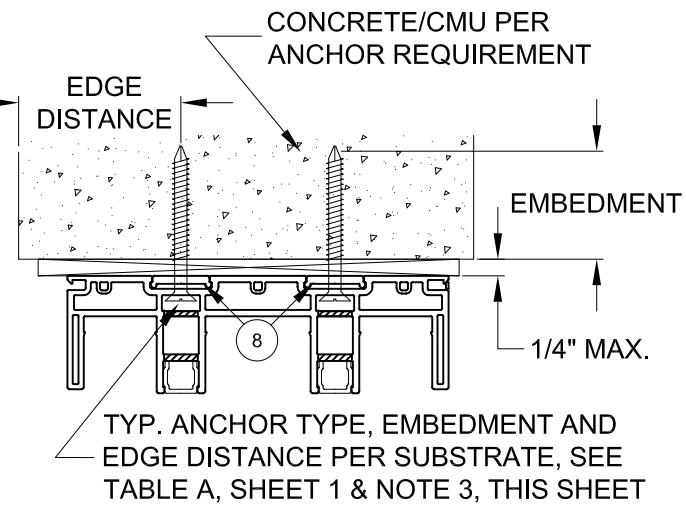


DETAIL E2
INTO WOOD

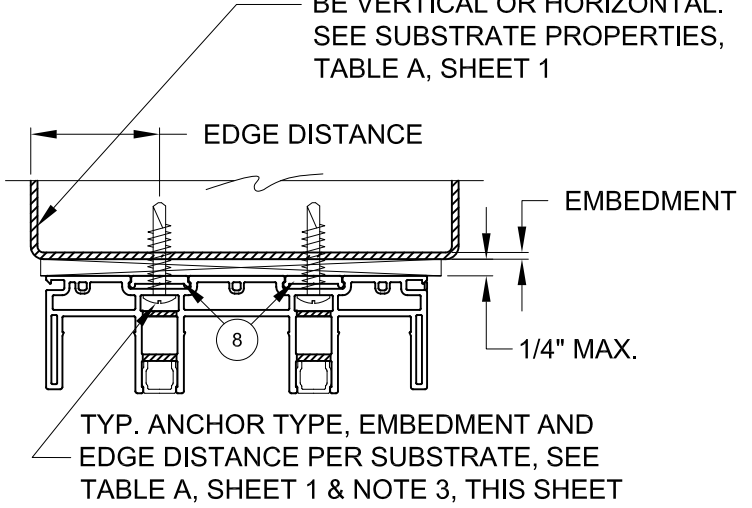
2X WOOD BUCKSTRIP OR FRAMING, SEE ANCHOR NOTE 3, SHEET 1
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET



DETAIL E3
INTO MASONRY



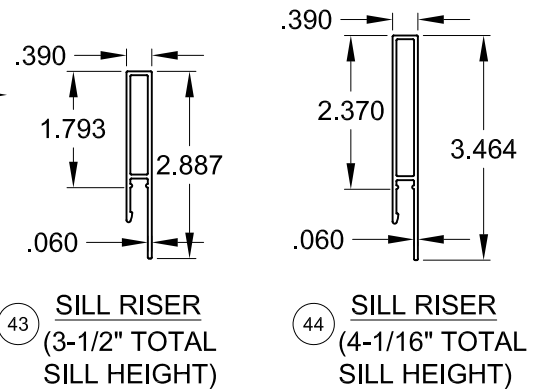
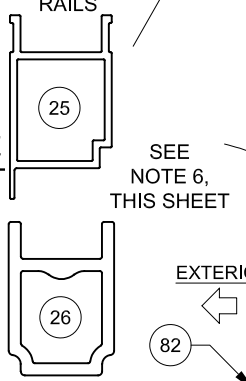
DETAIL E4
INTO METAL



NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 - 2) REFER TO ANCHOR NOTES, SHEET 1.
 - 3) SEE SHEETS 11 & 12 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 - 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
 - 5) SEE SHEET 20 FOR SCREEN DETAILS.
 - 6) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
- ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.

FOR LOCKSTILES, ASTRAGALS, FIXED STILES AND HORIZONTAL RAILS
#8 X 3/4" SMS REINFORCEMENT SCREW; 3 PER RAIL, LOCATED AT CENTERLINE AND 9" FROM ENDS (FACTORY INSTALLED)



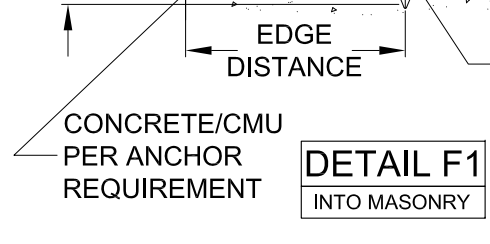
SILL RISER VARIES WITH REQUIRED POSITIVE DESIGN PRESSURE, SEE SHEETS 7 & 8.

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Series	Rev B	Rev A	Desc.	Title	Date
SGD-5470			NTS	VINYL SLIDING GLASS DOOR TDI INSTALLATION, VERTICAL X-SECT.	3/24/16
				REV. ANCHOR HEADS - JR	05/25/21
Scale	Sheet	DWG No.	Rev. No.		
NTS	4 OF 25	TDI-SGD5470.2	A		

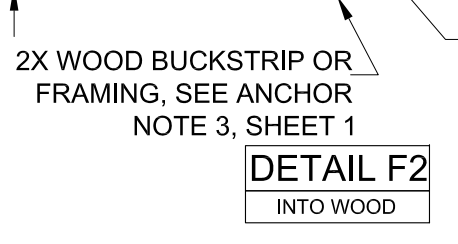
DETAIL F1
INTO MASONRY

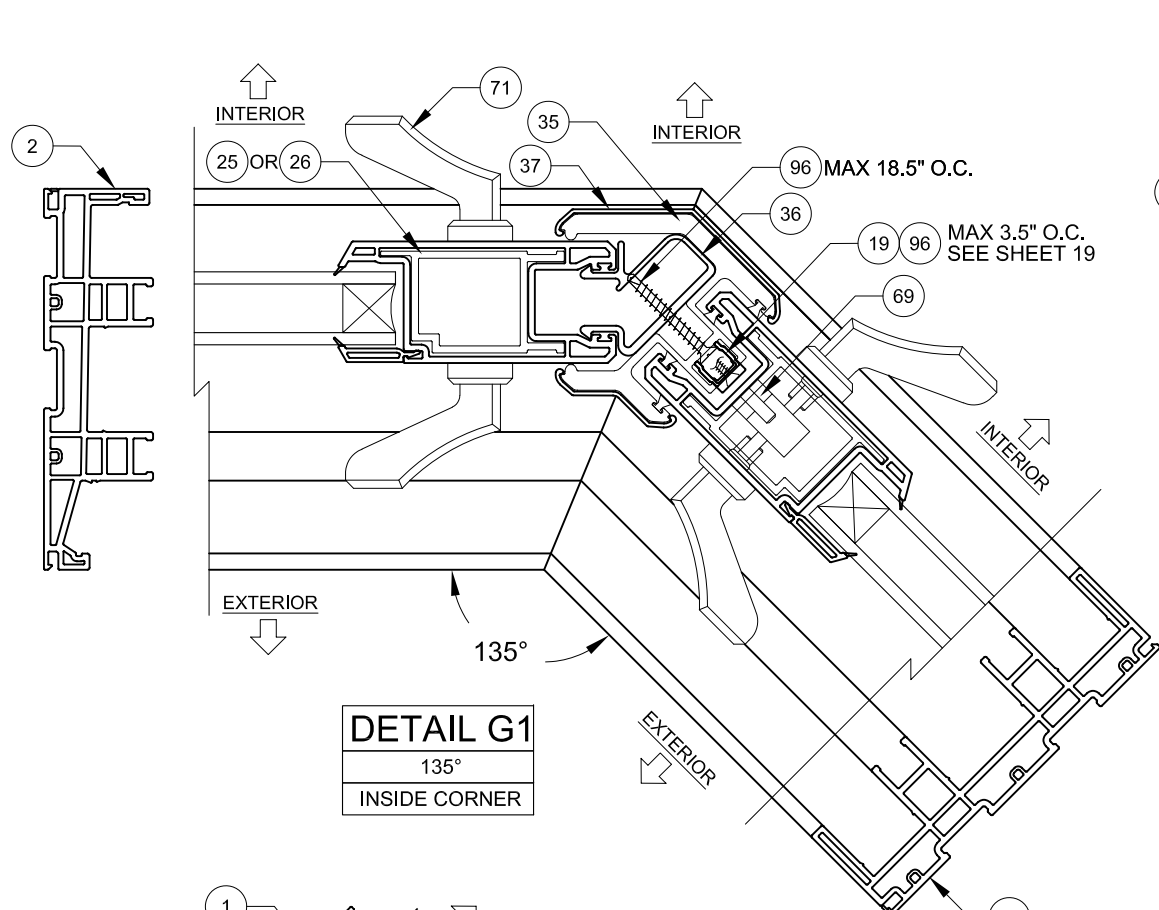
TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET



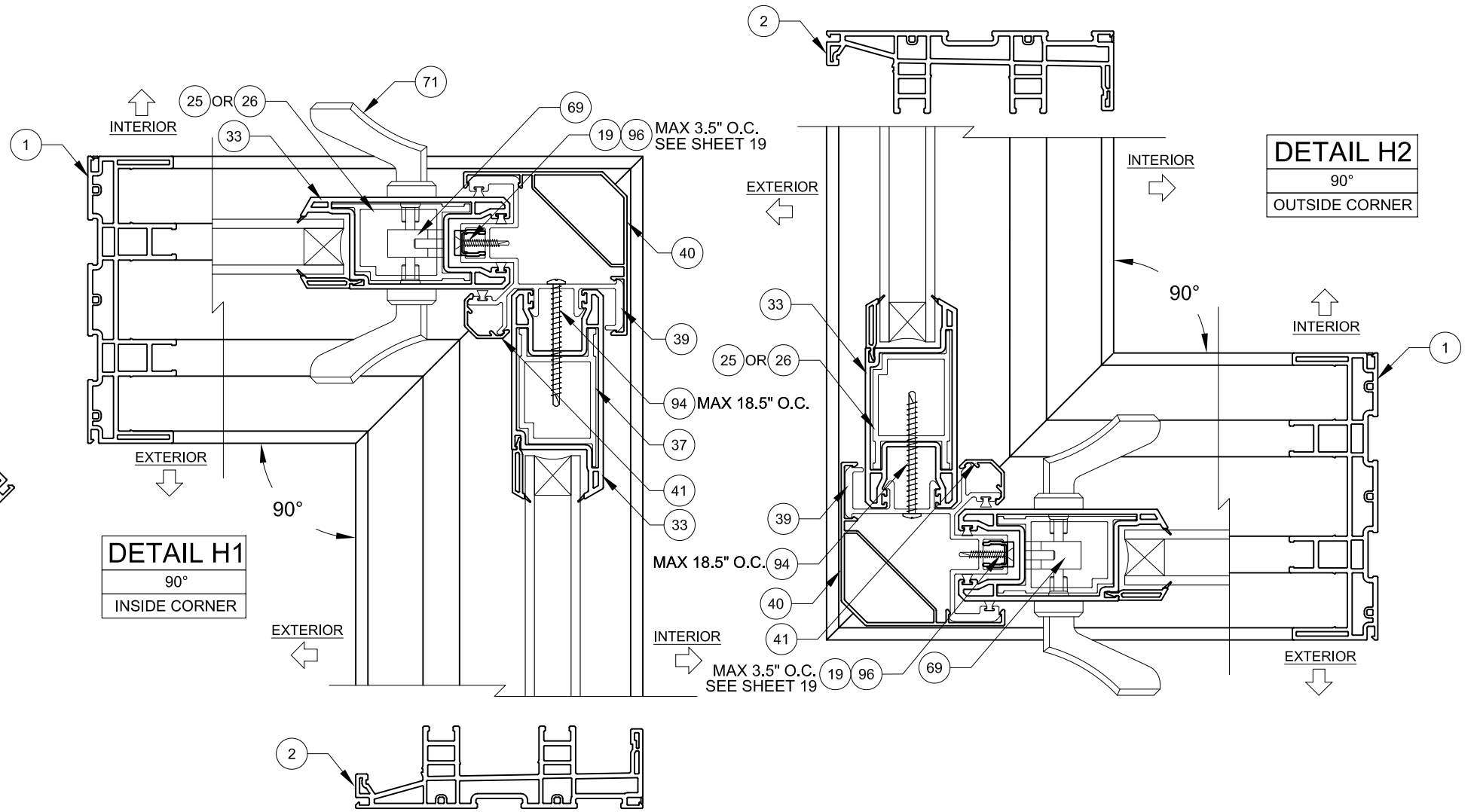
DETAIL F2
INTO WOOD

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE, SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET



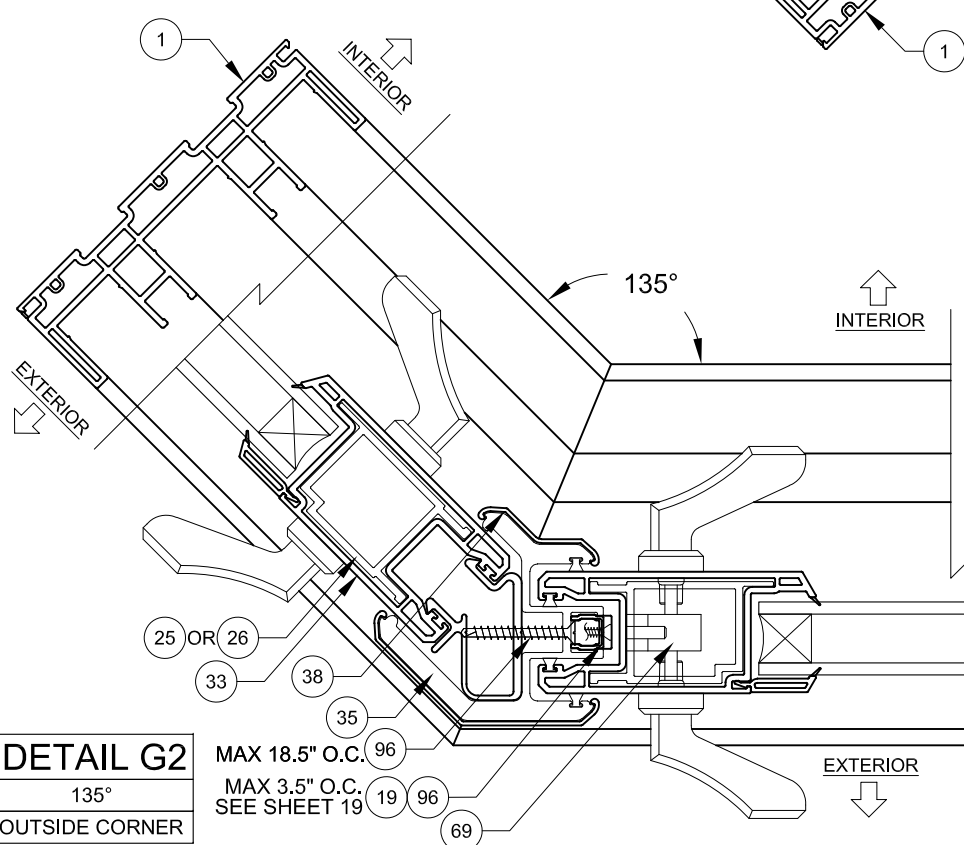


DETAIL G1
135°
INSIDE CORNER



DETAIL H1
90°
INSIDE CORNER

DETAIL H2
90°
OUTSIDE CORNER



DETAIL G2
135°
OUTSIDE CORNER

MAX 18.5" O.C.
MAX 3.5" O.C.
SEE SHEET 19

NOTES


- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
- 3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.



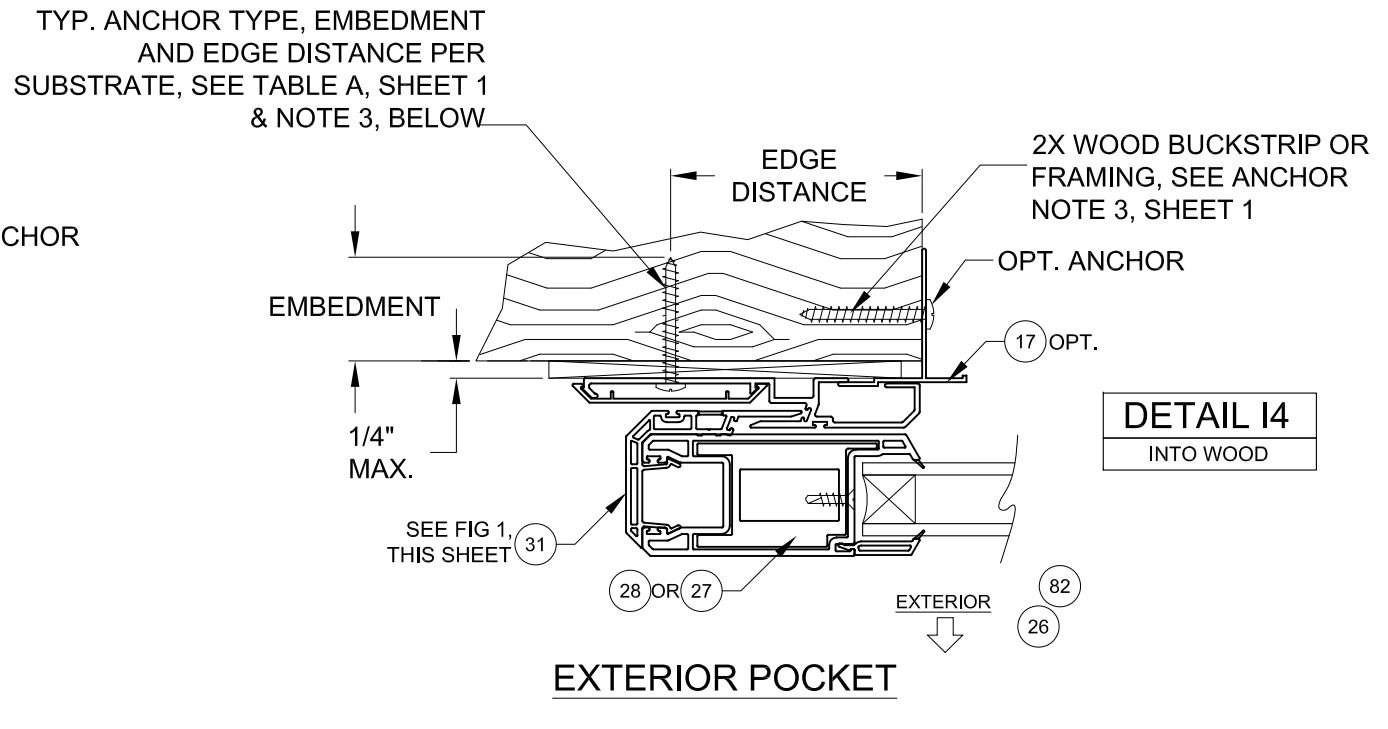
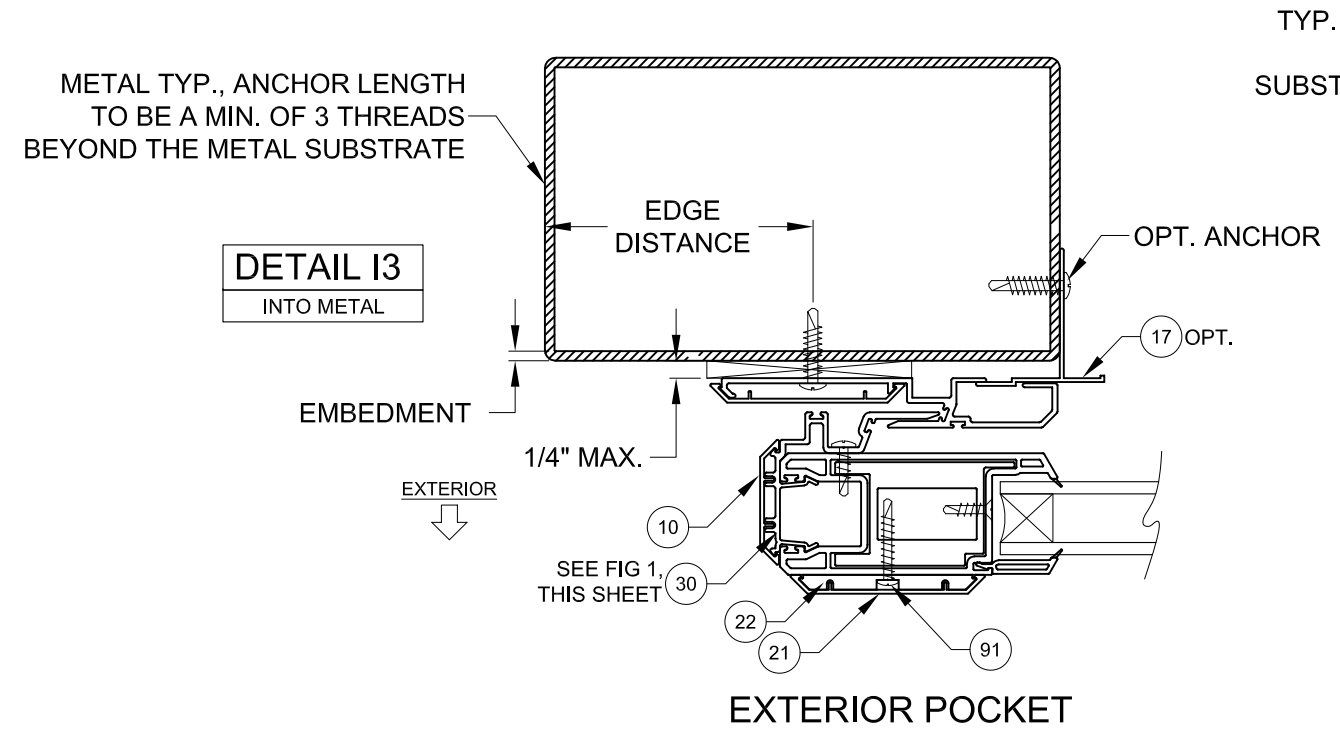
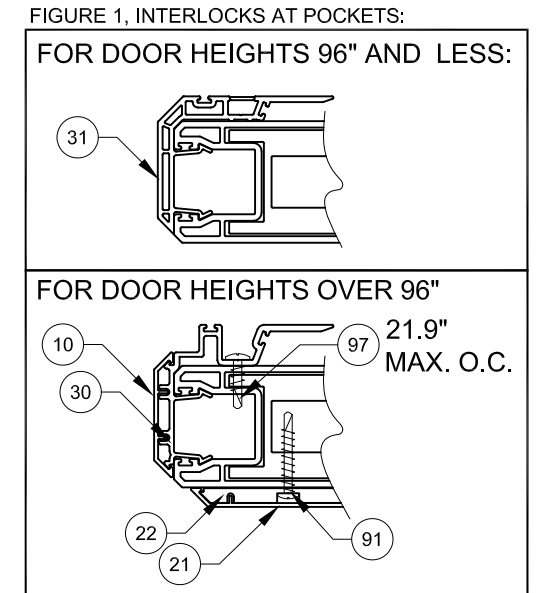
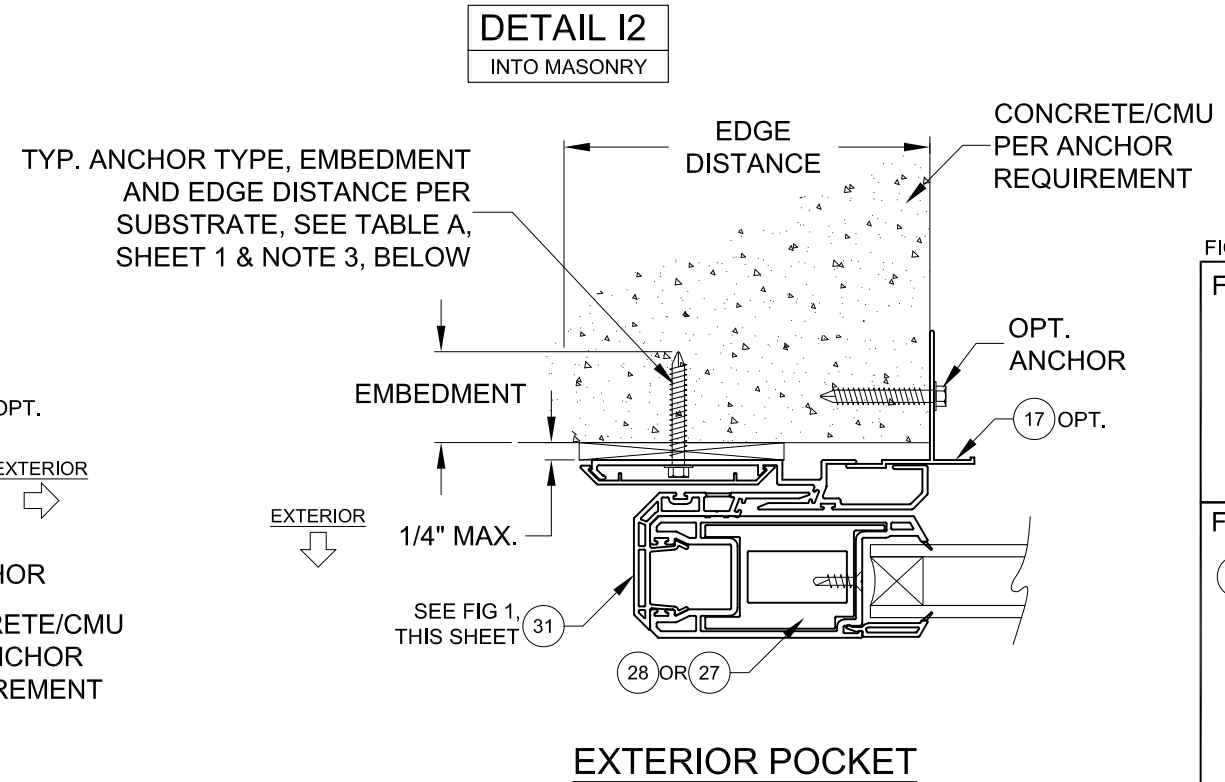
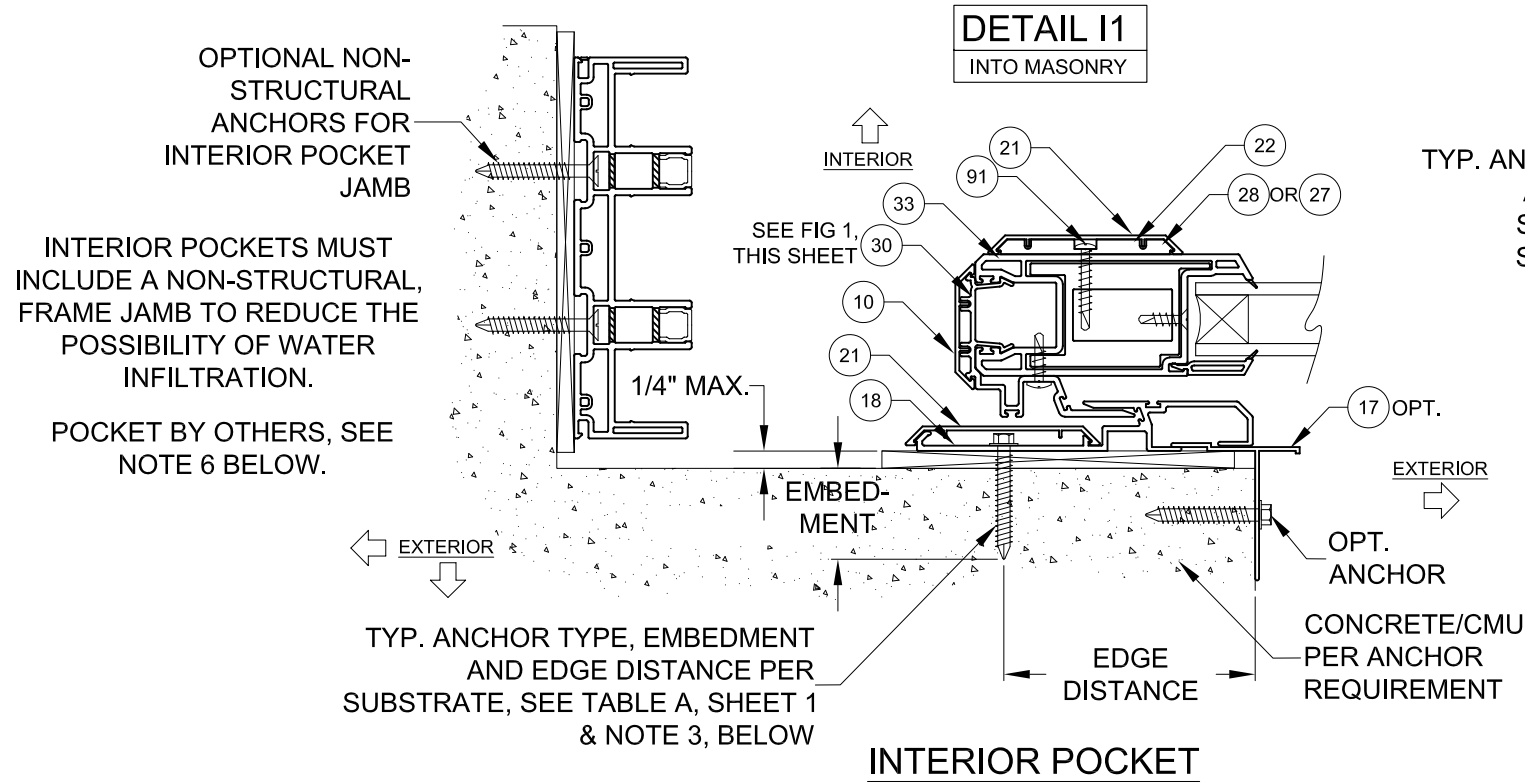
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Series		Rev B		Rev A		Title		Date	
SGD-5470		NTS		5 OF 25		VINYL SLIDING GLASS DOOR TDI		3/24/16	
DWG No.		TDI-SGD5470.2		Rev No.		A		Drawn By	
J ROSOWSKI		Rev A		Rev B		Date		Date	

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NOTES
 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 2) REFER TO ANCHOR NOTES, SHEET 1.
 3) SEE SHEET 13 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 & 2.
 4) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
 5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
 6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

PGI
 1070 TECHNOLOGY DRIVE
 N. VENICE, FL 34275
 (941)-480-1600

Series	Rev. A	Desc.	Title	Date
SGD-5470	NTS	Sheet	6 OF 25	DWG No.
VINYL SLIDING GLASS DOOR TDI			Date	3/24/16
P-HOOK EXAMPLES, HORIZ. X-SECT.			Drawn By	J ROSOWSKI
REV. ANCHOR HEADS - JR			Rev. A Date	05/25/21
			Rev. B Date	
			Rev. No.	A

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A. LYNN MILLER, P.E.
 P.E.# 106954

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required															
Use this table for: Astragal Reinforcement #29 Lockstile Reinforcement #25 or #26 Std. Interlock Reinforcement #27			Door Unit Height												
			80"				84"				96"				
			68-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height				
			Anchor Group				Anchor Group				Anchor Group				
			A	B	C	D	A	B	C	D	A	B	C	D	
Nominal Panel Width	24"	19-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	30"	25-1/8" DLO	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
	36"	31-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8
42"	37-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				
		Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	
		Jamb	5	5	5	5	5	5	5	5	5	5	5	5	
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	
48"	43-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				
		Head/Sill	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1	
		Jamb	5	5	5	5	5	5	5	5	5	5	6	5	
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8	

USED IN EXAMPLE ON SHEET 9

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B1, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

TABLE B1:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
43	3-1/2"	+60.0 psf

TABLE NOTES:

- 1) SEE SILL RISER TYPES ON SHEET 4.
- 2) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 3) REFER TO ANCHOR NOTES, SHEET 1.
- 4) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING



DLO WIDTH = NOM. PANEL WIDTH - 7-3/8"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

Series	Rev. B	Rev. A	Desc.	Title	Date
SGD-5470			VINYL SLIDING GLASS DOOR TDI	DP & ANCHOR QUANTITY TABLE	3/24/16
Scale	NTS	Sheet	7 OF 25	DWG No.	TDI-SGD5470.2
Drawn By	J ROSOWSKI	Rev. A Date	Rev. B Date	Rev. No.	A

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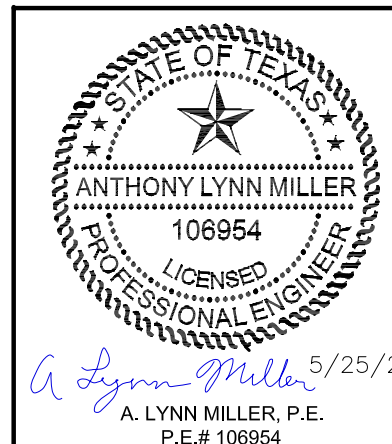


TABLE 2:

Design Pressure (DP) and Anchor Quantities Required																							
Use this table for: Astragal Reinforcement #29 Lockstile Reinforcement #25 HD Interlock Reinforcement #28			Door Unit Height																				
			80"				84"				96"				108"				120"				
			68-15/16" DLO Height				72-15/16" DLO Height				84-15/16" DLO Height				96-15/16" DLO Height				108-15/16" DLO Height				
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
Nominal Panel Width	24"	19-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	30"	25-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	36"	31-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5	6	6	6	6	6	6	6	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	42"	37-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C5+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1	C5+2	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1
			Jamb	5	5	5	5	5	5	6	5	5	5	7	5	6	6	6	6	6	6	7	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	48"	43-1/8" DLO Width	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -65 psf				+60 / -65 psf			
			Head/Sill	C5+2	C3+2	C5+2	C3+1	C5+2	C3+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C3+1	C5+2	C3+1	C5+2	C5+1	C5+2	C3+1
			Jamb	5	5	6	5	5	5	6	5	5	5	7	5	6	6	7	6	6	6	8	6
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10
	54"	49-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				Not available in these sizes							
			Head/Sill	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C3+2	C3+1	C5+2	C3+1	C5+2	C3+1								
			Jamb	5	5	5	5	5	5	5	5	5	5	6	5								
			P-hook	7	7	7	7	7	7	7	7	8	8	8	8								
60"	55-1/8" DLO Width	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				Not available in these sizes								
		Head/Sill	C3+2	C3+2	C3+2	C3+1	C5+2	C3+2	C3+2	C3+1	C5+2	C3+2	C5+2	C3+1									
		Jamb	5	5	5	5	5	5	5	5	5	5	6	5									
		P-hook	7	7	7	7	7	7	7	7	8	8	8	8									

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE B2, THIS SHEET.

OF ANCHORS THROUGH THE HEAD & SILL. (EX: FOR C3+1, 3 ANCHORS CLUSTERED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS REQUIRED THROUGH THE P-HOOK, PERPENDICULAR TO THE GLASS.

TABLE B2:

Water-Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
43	3-1/2"	+60.0 psf
44	4-1/16"	+80.0 psf

TABLE NOTES:

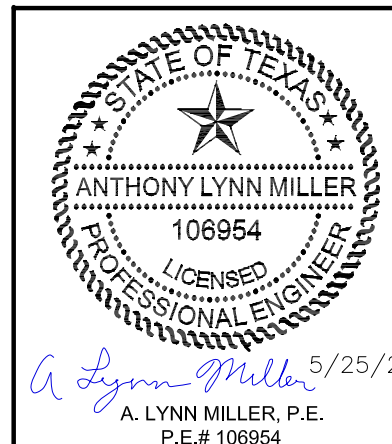
- 1) SEE SILL RISER TYPES ON SHEET 4.
- 2) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 3) REFER TO ANCHOR NOTES, SHEET 1.
- 4) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING

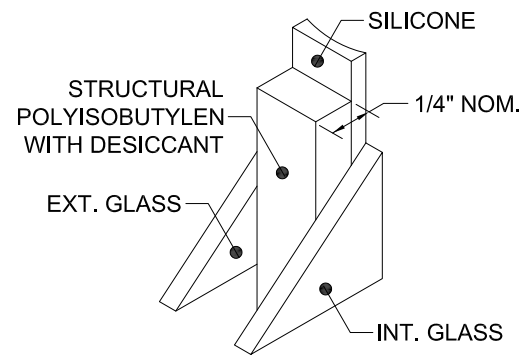


Series	Rev. A	Desc.	Title	Date
SGD-5470	NTS	8 OF 25	VINYL SLIDING GLASS DOOR TDI	3/24/16
Scale	DWG No.	Sheet	Drawn By	Rev. A Date
NTS	TDI-SGD5470.2	8 OF 25	J ROSOWSKI	
Rev. B	Rev. No.	Rev. C	Rev. D	Rev. E
	A			

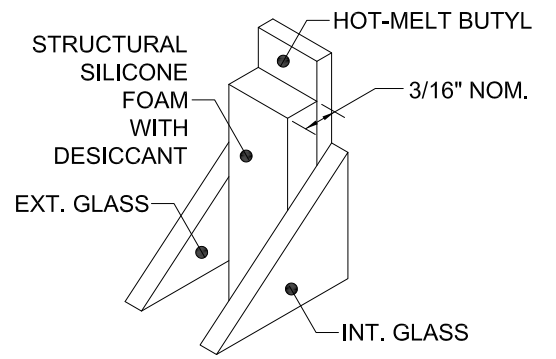
DLO WIDTH = NOM. PANEL WIDTH - 7-3/8"
DLO HEIGHT = DOOR HEIGHT - 11-1/16"
PANEL HEIGHT = DOOR HEIGHT - 2-1/2"

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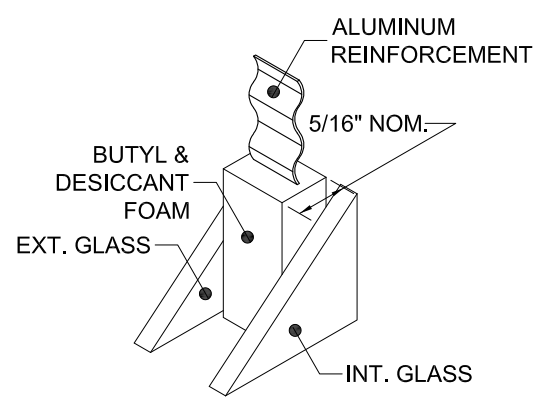




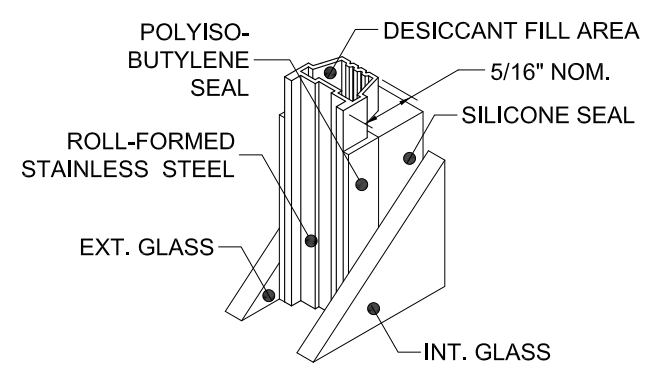
75 **KODISPACE**
4SG TPS



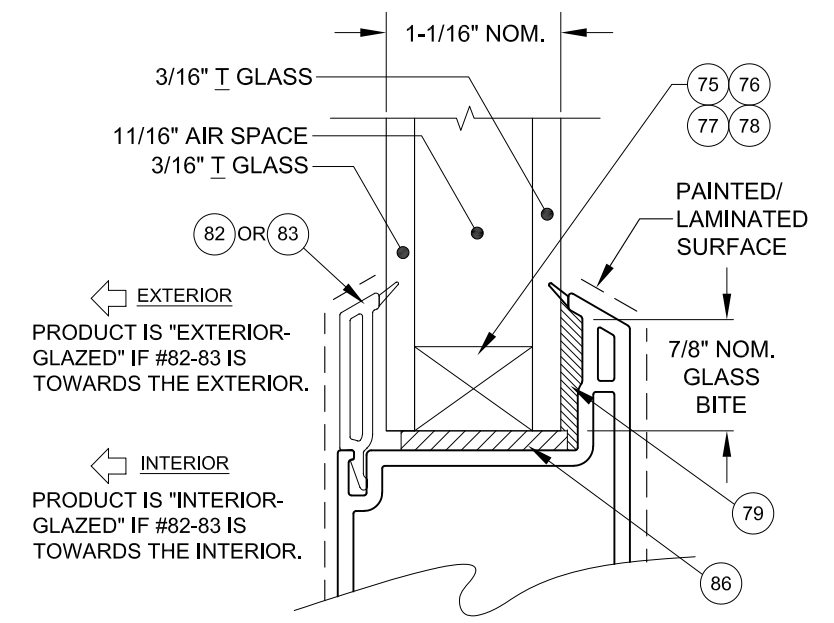
76 **SUPER SPACER**[®] **NXT**[™]



77 **DURASEAL**[®]
SPACER



78 **XL EDGE**[™]
SPACER



GLASS DETAIL

NOTES:
1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.
2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED.

"T" = TEMPERED

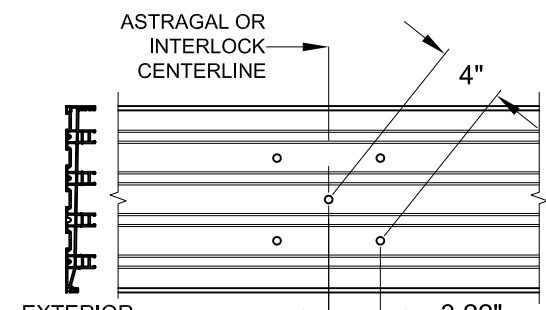
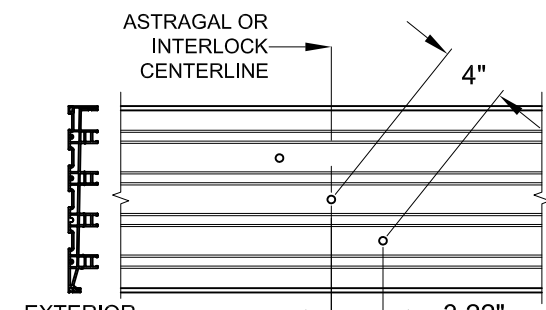
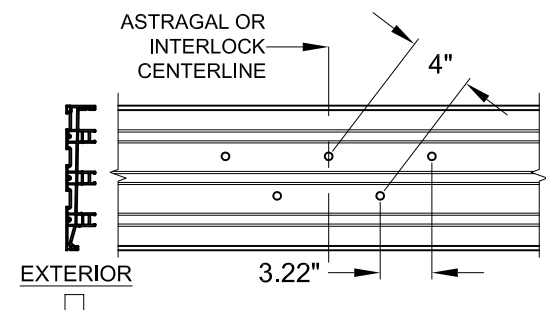
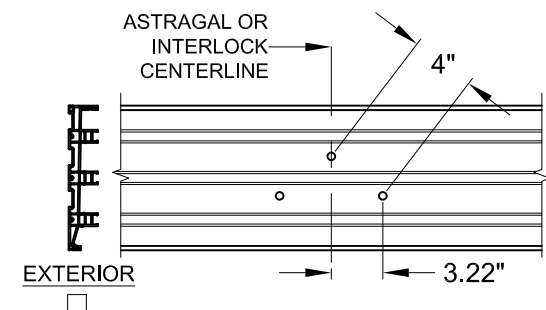
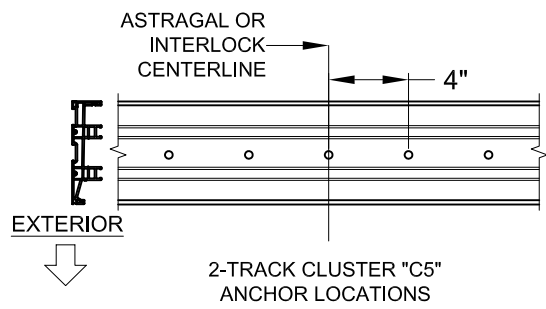
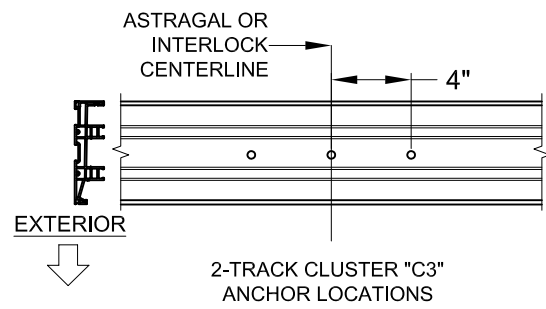
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Series	Rev B	Rev A	Desc.	Title	Date
SGD-5470			VINYL SLIDING GLASS DOOR TDI	GLAZING DETAILS	3/24/16
Scale	NTS	Sheet	10 OF 25	DWG No.	TDI-SGD5470.2
Drawn By	J ROSOWSKI	Rev A Date	Rev B Date	Rev. No.	A

A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

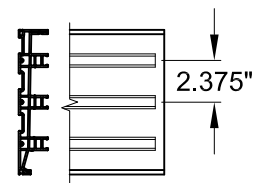
SILL CLUSTER ANCHORS LAYOUT:



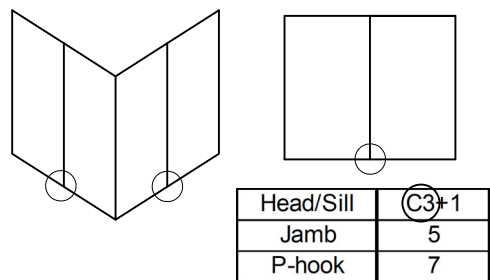
NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

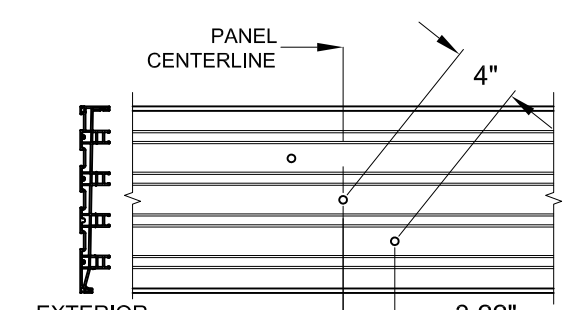
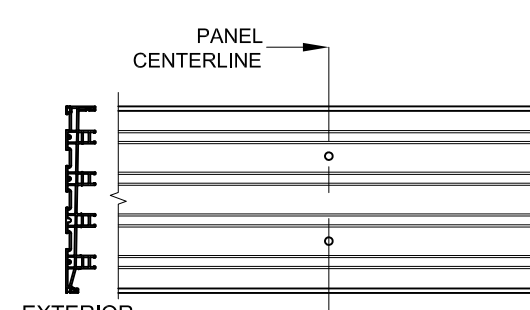
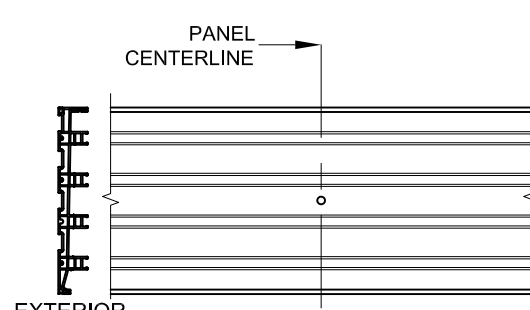
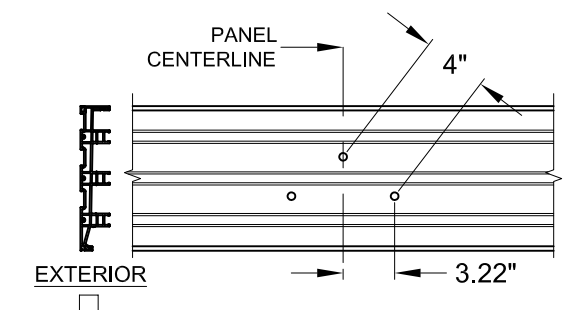
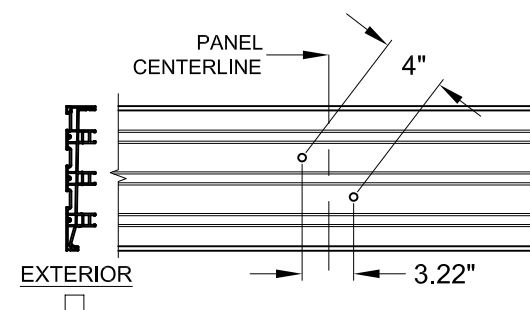
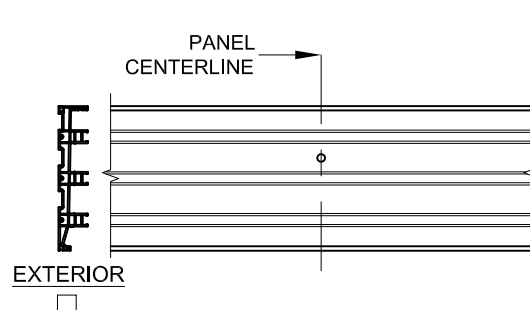
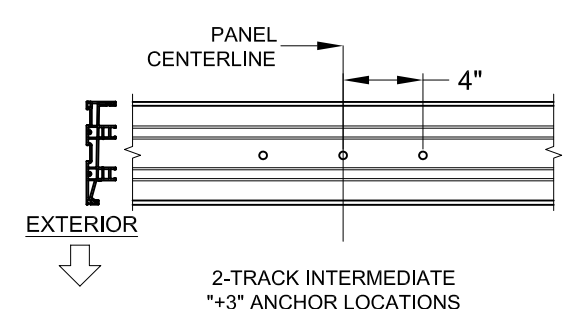
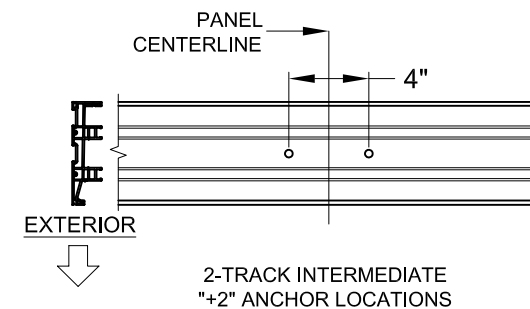
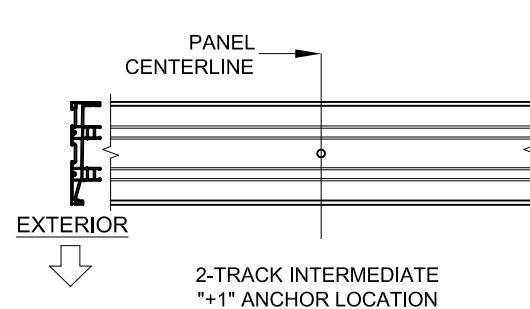
2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



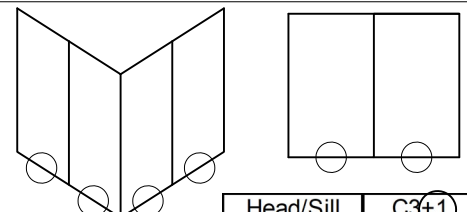
FIGURES PERTAIN TO THE FOLLOWING SILL CLUSTER ANCHOR LOCATIONS:



SILL "+" INTERMEDIATE ANCHORS LAYOUT:



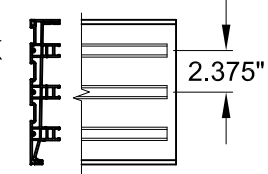
FIGURES PERTAIN TO THE FOLLOWING SILL INTERMEDIATE ANCHOR LOCATIONS:



NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS:



Series	Rev. 2	Rev. 1	Desc.	VINYL SLIDING GLASS DOOR TDI		Date	3/24/16
ANCHOR LOCATIONS A				Drawn By	J ROSOWSKI		
SGD-5470		Scale	NTS	Sheet	11 OF 25	DWG No.	TDI-SGD5470.2
		Rev. 1	Date	Rev. 2	Date	Rev. No.	A

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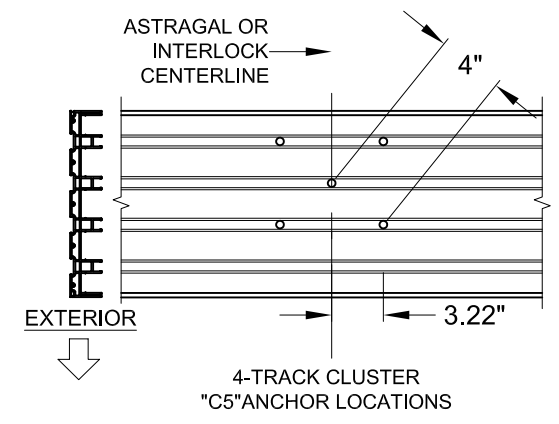
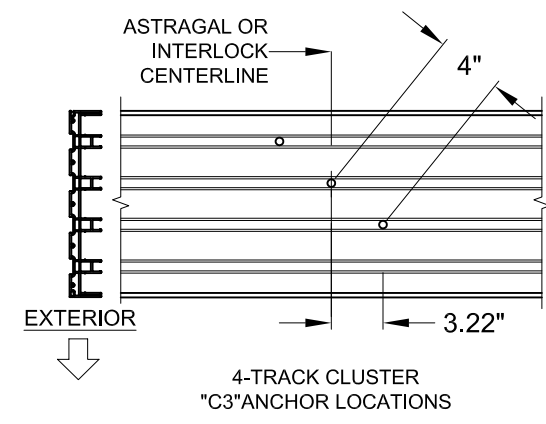
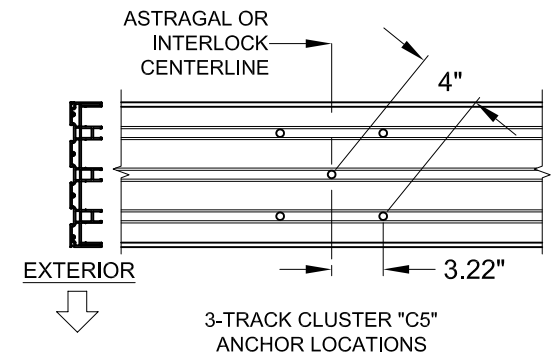
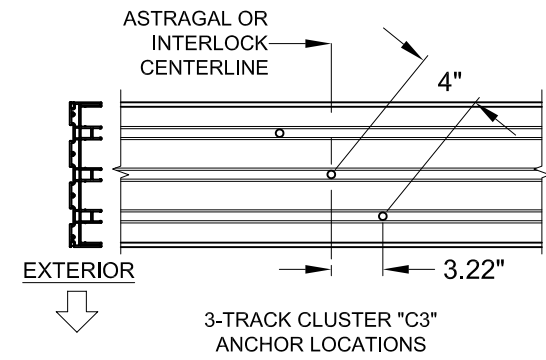
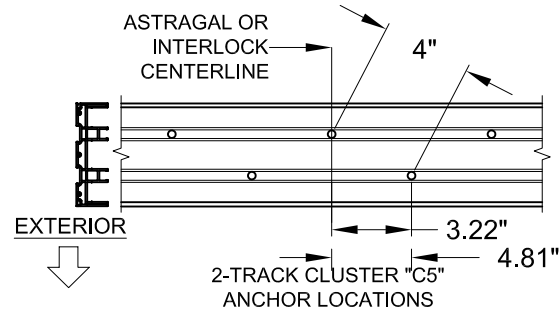
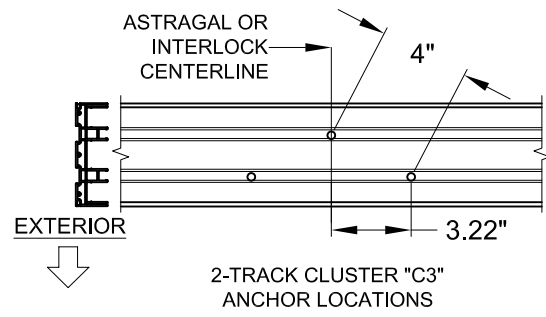
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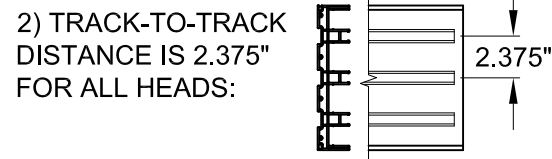
STATE OF TEXAS
ANTHONY LYNN MILLER
106954
LICENSED
PROFESSIONAL ENGINEER

A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106594

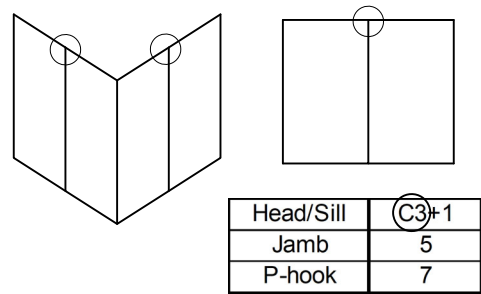
HEAD CLUSTER ANCHORS LAYOUT:



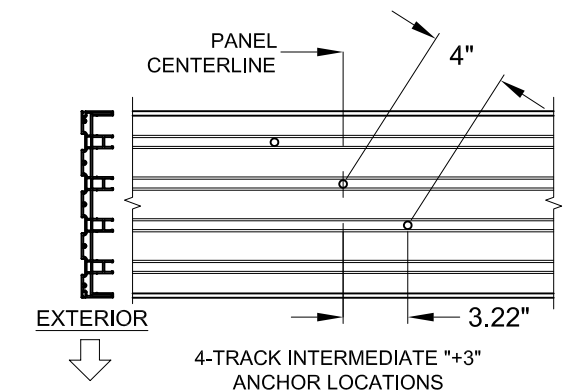
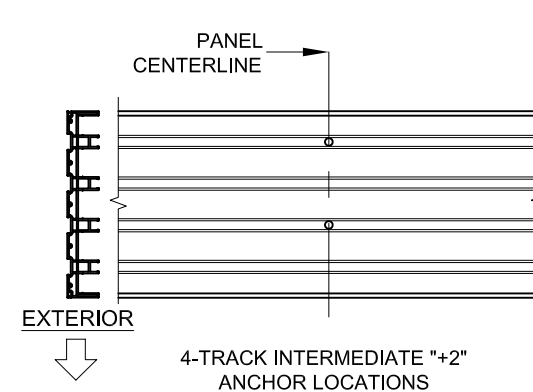
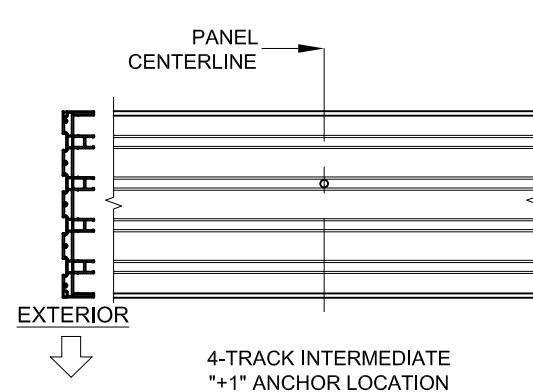
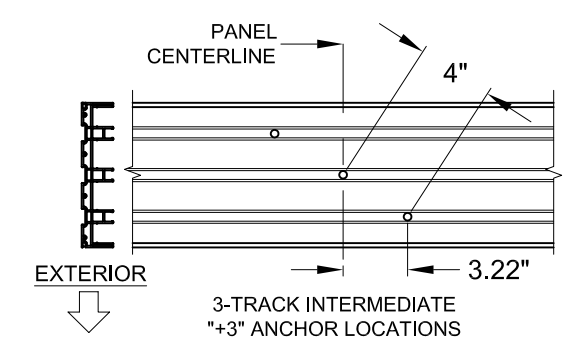
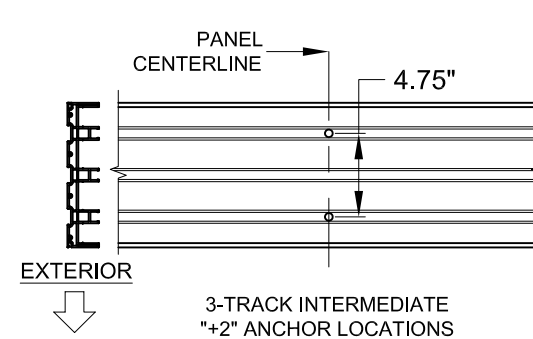
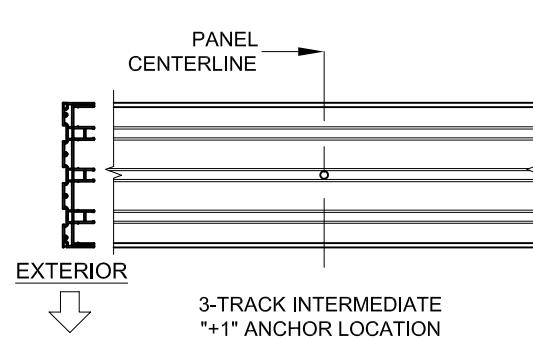
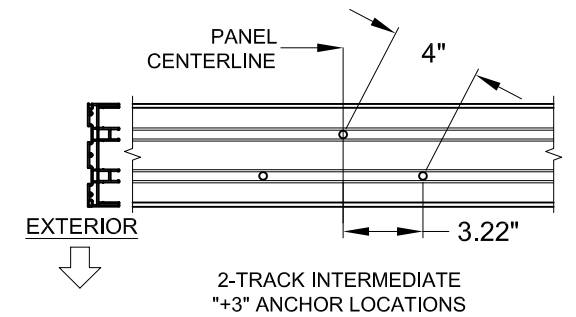
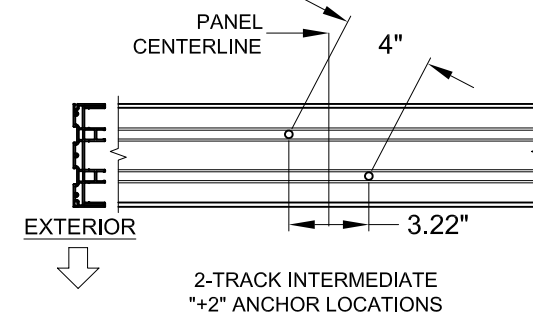
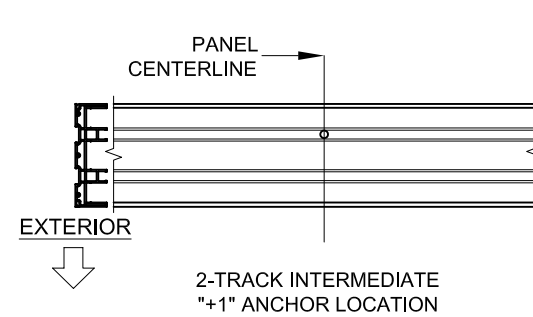
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.



FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:



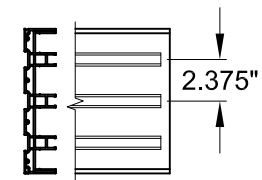
HEAD "+" INTERMEDIATE ANCHORS LAYOUT:



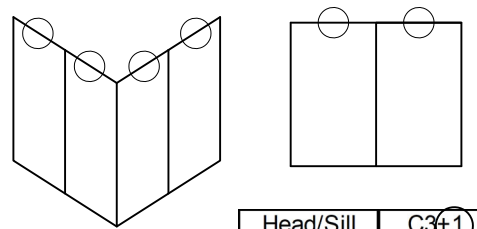
NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



FIGURES PERTAIN TO THE FOLLOWING HEAD INTERMEDIATE ANCHOR LOCATIONS:



Head/Sill	C3+1
Jamb	5
P-hook	7

Series	SGD-5470	Scale	NTS	Sheet	12 OF 25	DWG No.	TDI-SGD5470.2	Rev. No.	A
Title	VINYL SLIDING GLASS DOOR TDI							Date	3/24/16
Desc.	ANCHOR LOCATIONS B					Drawn By	J ROSOWSKI	Rev. 1 Date	
Rev. 1								Rev. 2 Date	

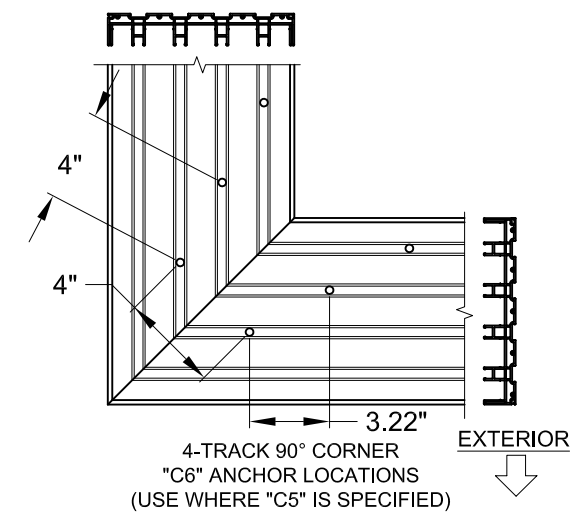
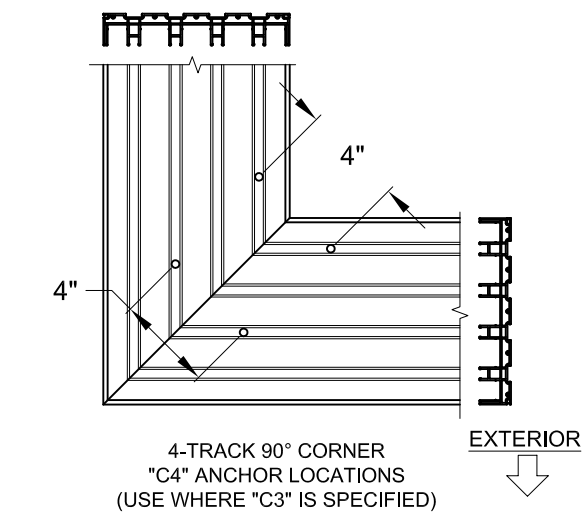
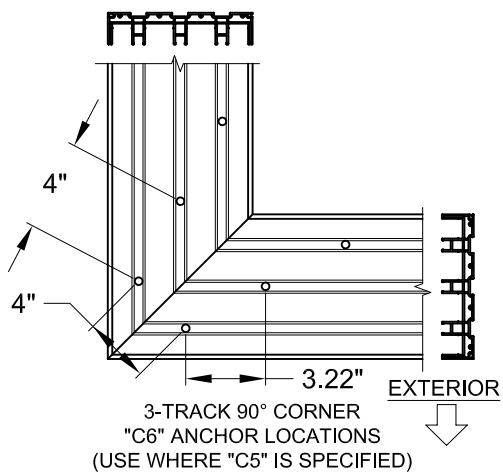
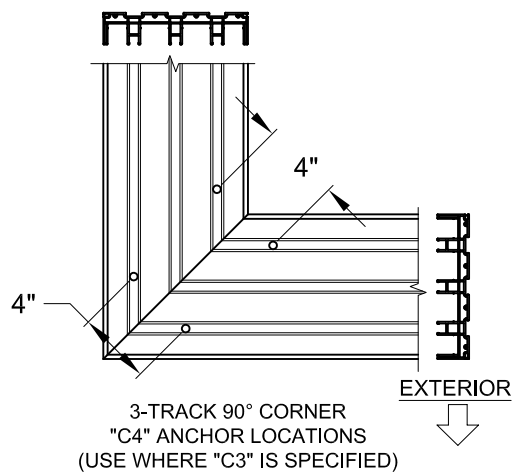
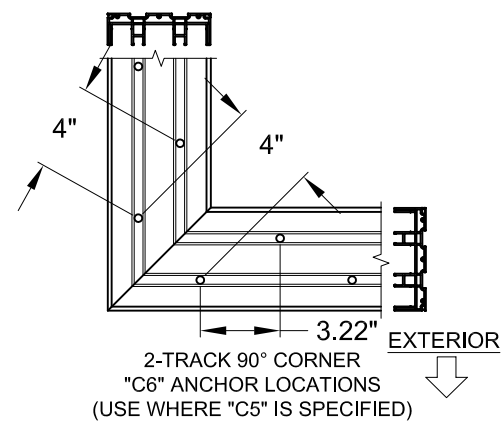
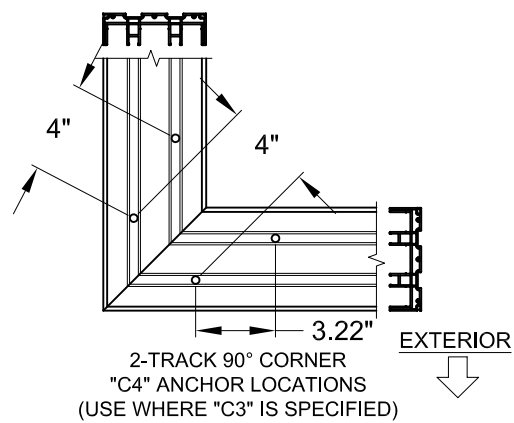
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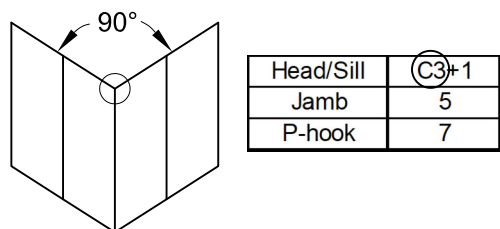
ANTHONY LYNN MILLER
106954
LICENSED PROFESSIONAL ENGINEER

A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106594

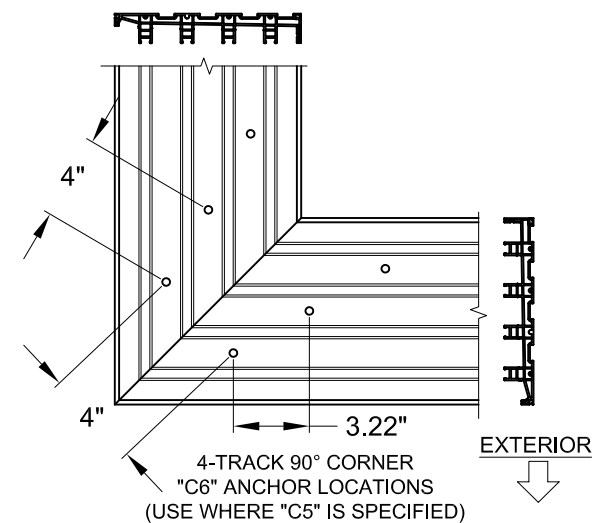
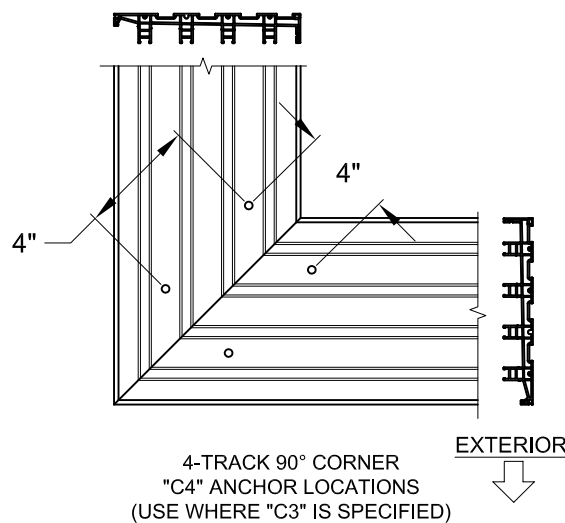
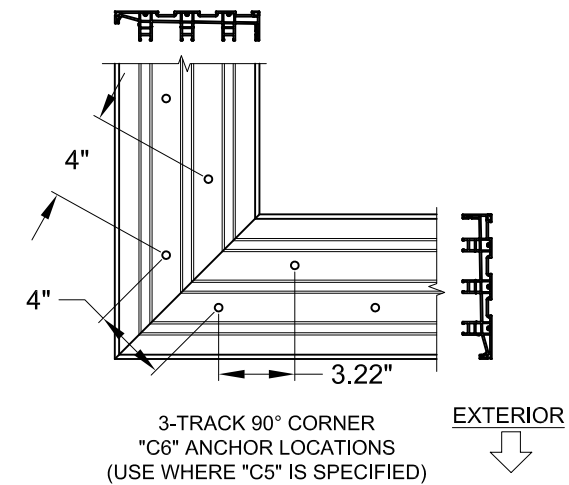
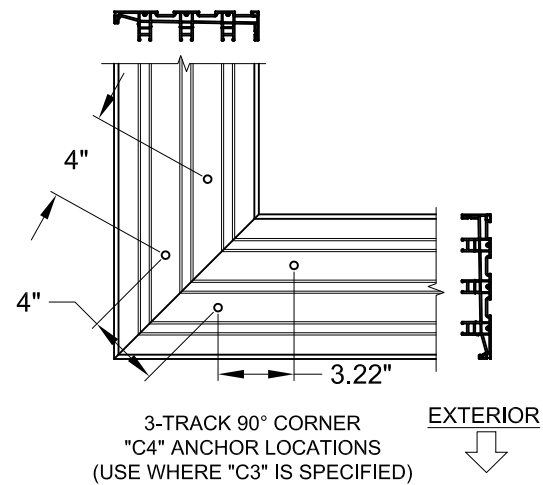
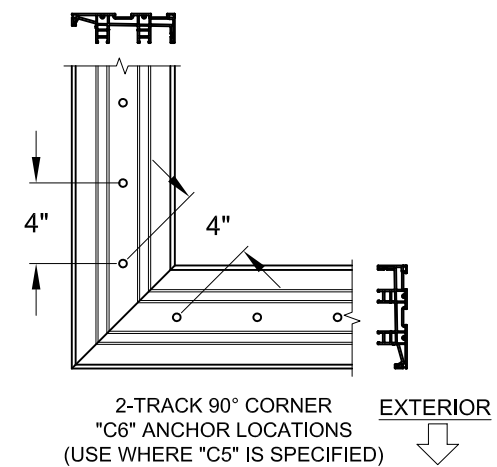
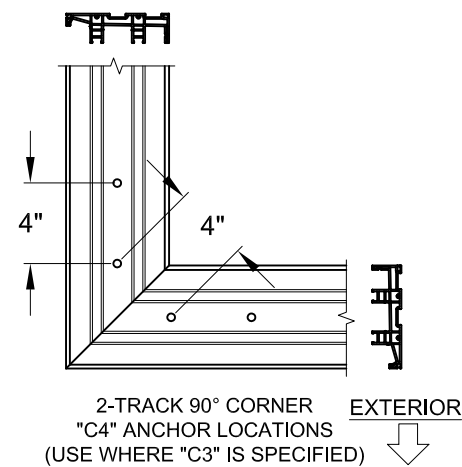
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:

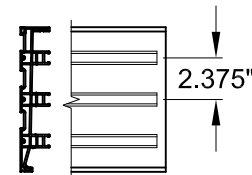
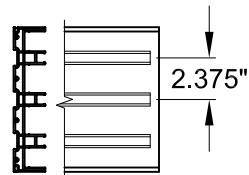


SILL 90° CORNER CLUSTER ANCHORS LAYOUT:

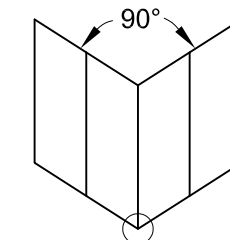


NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



FIGURES PERTAIN TO THE FOLLOWING 90° CORNER SILL ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

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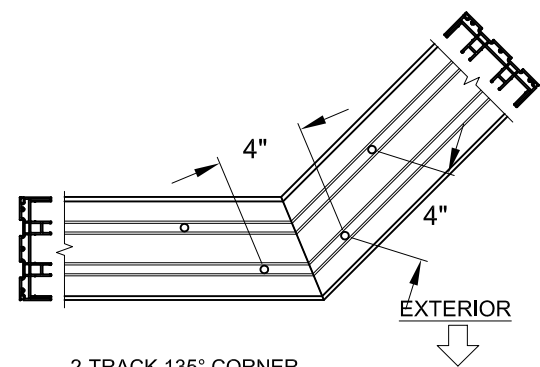


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P.E.# 106954

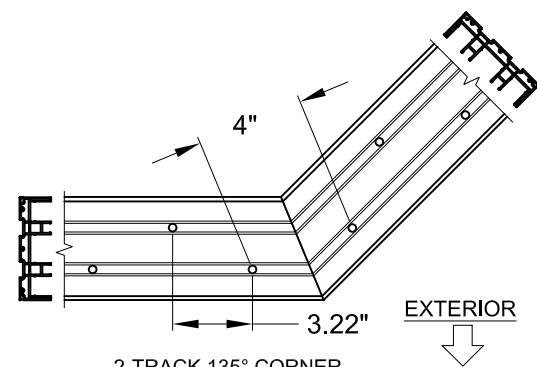
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N. VENICE, FL 34275
(941)-480-1600

Series	Rev 2	Scale	NTS	Sheet	14 OF 25	DWG No.	TDI-SGD5470.2	Rev. No.	A
Desc.	VINYL SLIDING GLASS DOOR TDI		Date	3/24/16		Drawn By	J ROSOWSKI		
Rev 1	Date	Rev 2	Date						

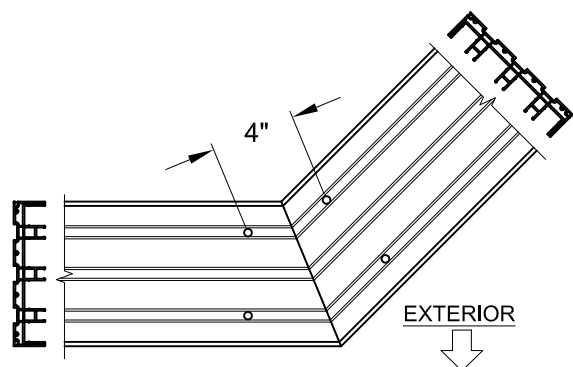
HEAD 135° CORNER CLUSTER ANCHORS LAYOUT:



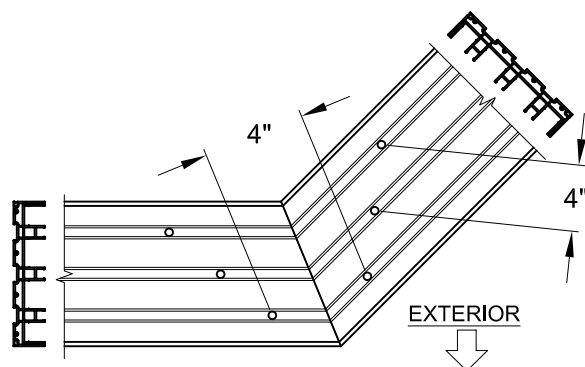
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



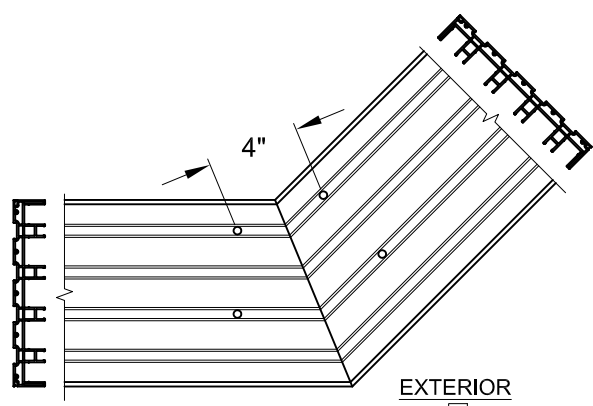
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



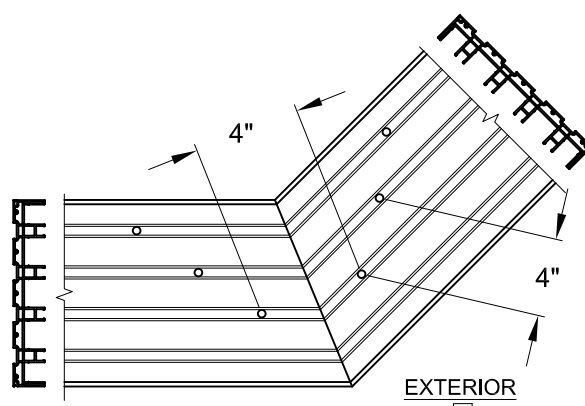
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

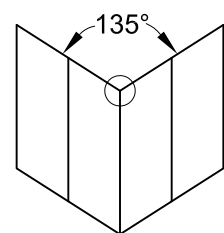


4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



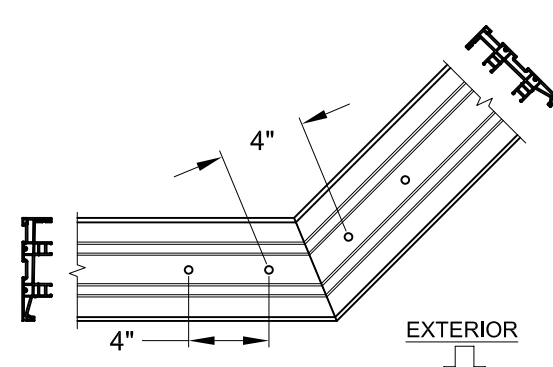
4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:

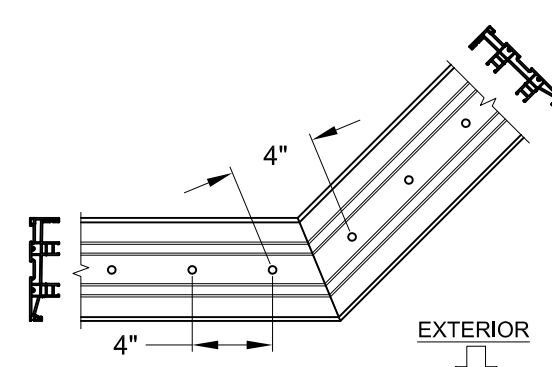


Head/Sill	(C3)+1
Jamb	5
P-hook	7

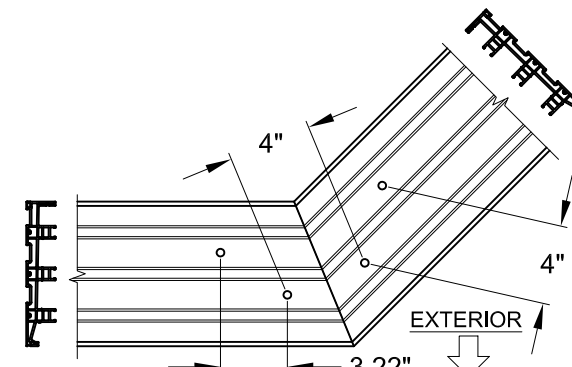
SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



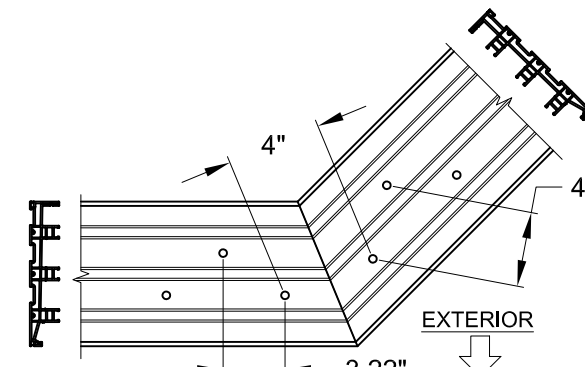
2-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



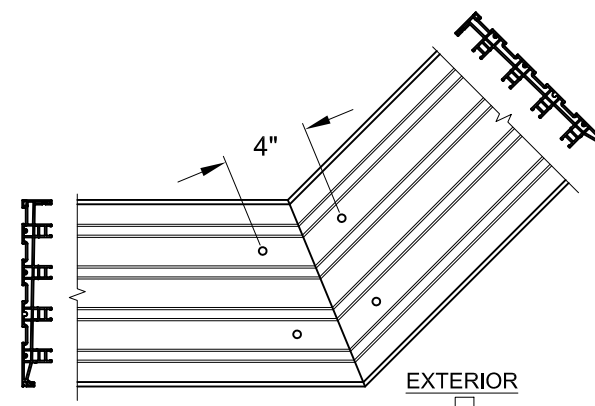
2-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



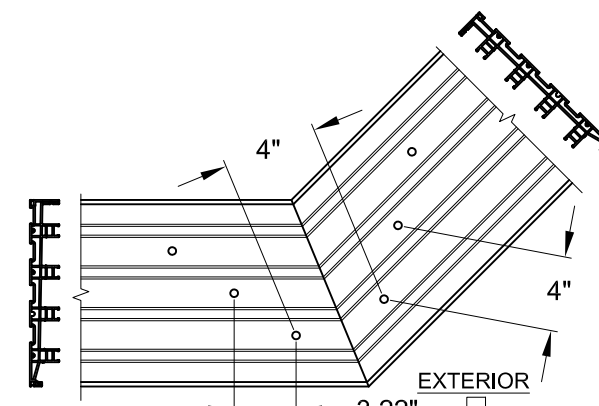
3-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



3-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)



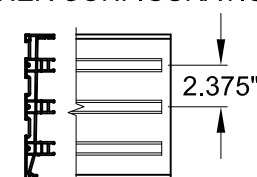
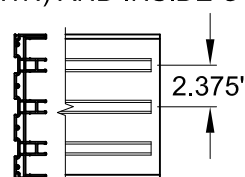
4-TRACK 135° CORNER
"C4" ANCHOR LOCATIONS
(USE WHERE "C3" IS SPECIFIED)



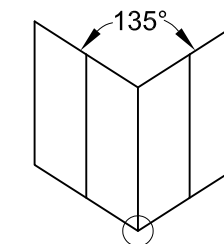
4-TRACK 135° CORNER
"C6" ANCHOR LOCATIONS
(USE WHERE "C5" IS SPECIFIED)

NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:



FIGURES PERTAIN TO THE FOLLOWING 135° CORNER SILL ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

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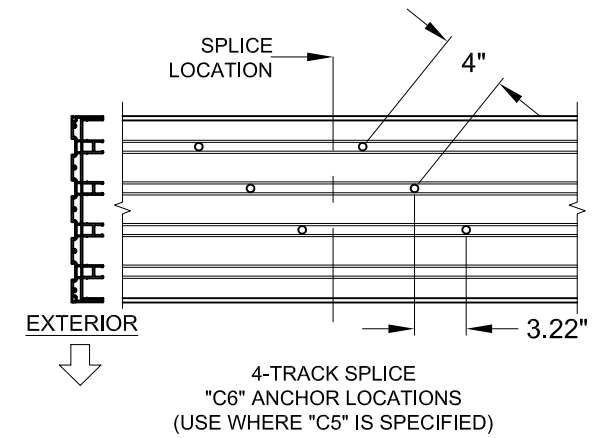
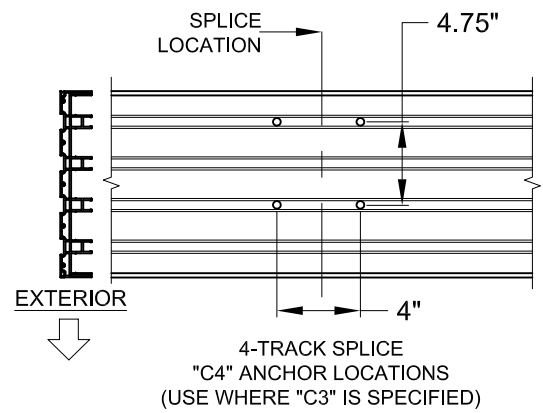
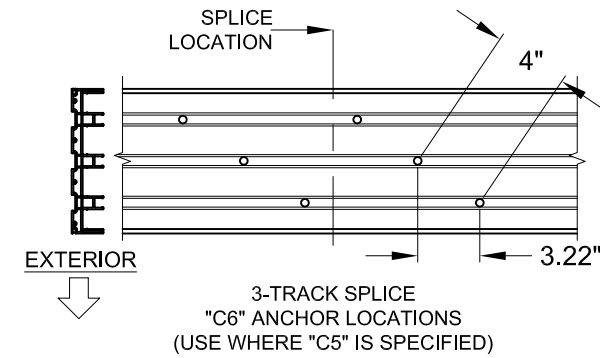
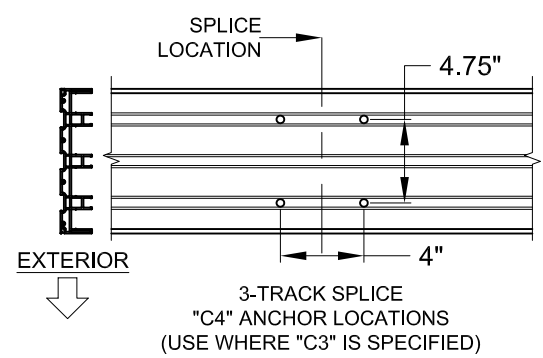
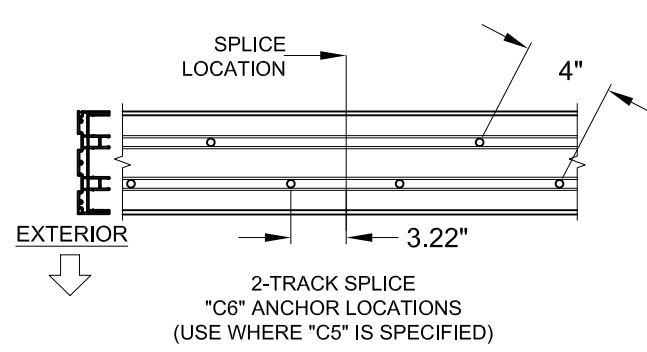
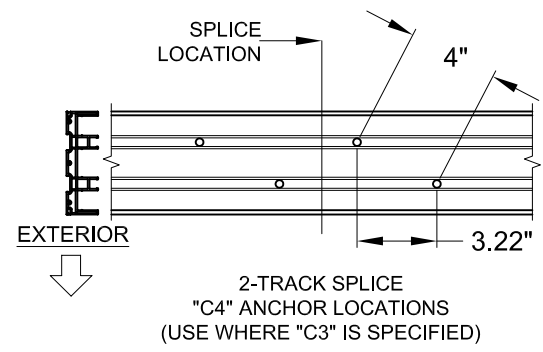


A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

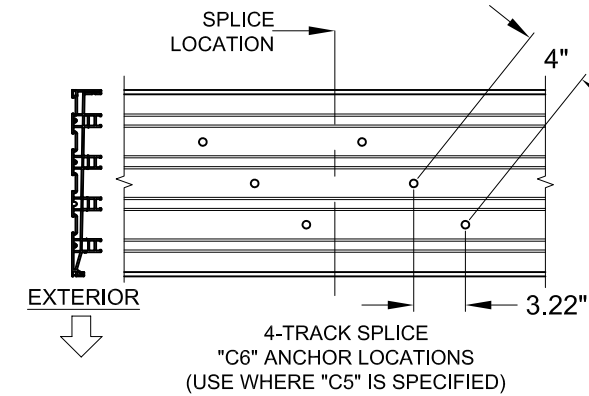
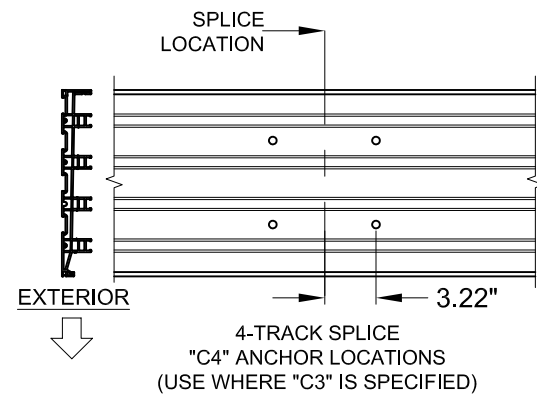
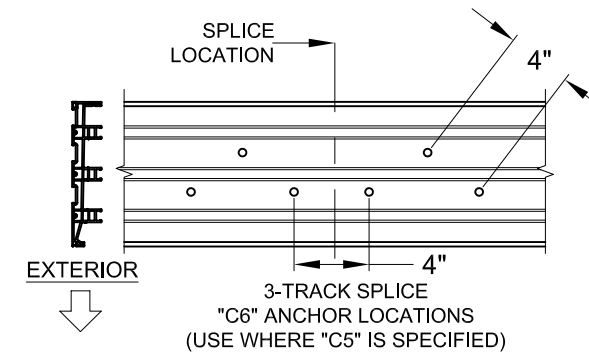
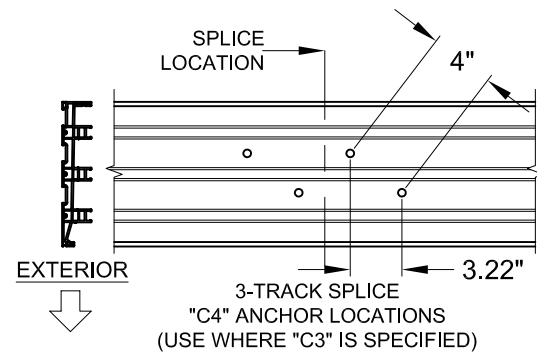
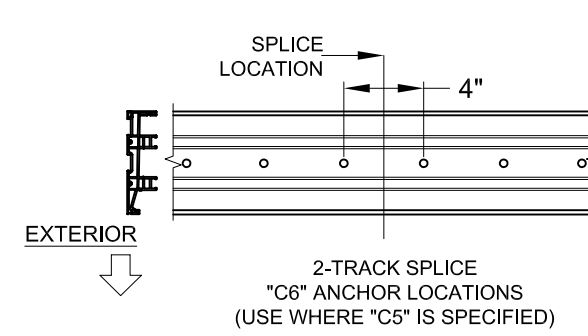
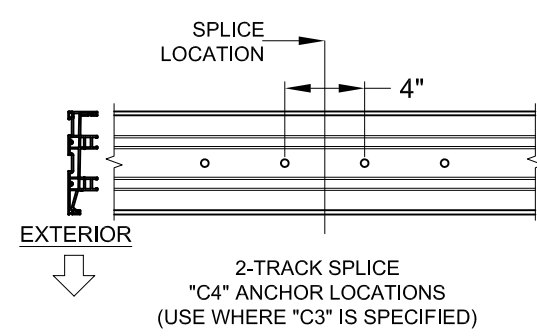
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Series	Rev. 1	Desc.	Title	Date
SGD-5470	1	NTS	VINYL SLIDING GLASS DOOR TDI	3/24/16
Sheet	15 OF 25	DWG No.	ANCHOR LOCATIONS E	Drawn By
				J ROSOWSKI
				Rev. 1 Date
				Rev. 2 Date
				Rev. No.
				A

HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



SILL SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL:



FIGURES PERTAIN TO THE FOLLOWING SPLICED SILL ANCHOR LOCATIONS:

Head/Sill	C3+1
Jamb	5
P-hook	7

FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:

Head/Sill	C3+1
Jamb	5
P-hook	7

NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:
- 4) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

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ANTHONY LYNN MILLER
106954
LICENSED PROFESSIONAL ENGINEER

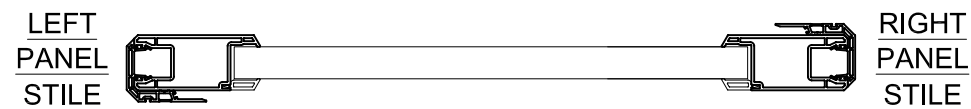
A. Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

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N. VENICE, FL 34275
(941)-480-1600

Series	Rev. 1	Rev. 2	Scale	NTS	Sheet	16 OF 25	DWG No.	TDI-SGD5470.2	Rev. No.	A
Title		VINYL SLIDING GLASS DOOR TDI		Date	3/24/16					
Desc.		ANCHOR LOCATIONS F		Drawn By	J ROSOWSKI					
Rev. 1		Date		Rev. 2		Date				

PANEL TYPES INTERIOR OR EXTERIOR GLAZED		PANEL'S RIGHT STILE TYPE										
		SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	OUTSIDE 90° ASTRAGAL RECEIVER	INSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER	
PANEL'S LEFT STILE TYPE	SINGLE INTERLOCK OUT		E	F	PP	K	L <small>(BOX OUT)</small>	L <small>(BOX IN)</small>	TC	TA	TV	TW
	SINGLE INTERLOCK IN		B	H	P	A	C <small>(BOX OUT)</small>	C <small>(BOX IN)</small>	SC	SA	SV	SW
	FIXED STILE		RR	R			S <small>(BOX OUT)</small>	S <small>(BOX IN)</small>	FC	FD	FV	FW
	LOCKSTILE W/ HANDLE		D	M			J <small>(BOX OUT)</small>	J <small>(BOX IN)</small>				
	ASTRAGAL BOX OUT		LR <small>(BOX OUT)</small>		T <small>(BOX OUT)</small>	U <small>(BOX OUT)</small>						
	ASTRAGAL BOX IN			N <small>(BOX IN)</small>	T <small>(BOX IN)</small>	U <small>(BOX IN)</small>						
	OUT. 90° ASTRAGAL RECEIVER		CT	CS	CF							
	IN. 90° ASTRAGAL RECEIVER		AT	AS	DF							
	OUT. 135° ASTRAGAL RECEIVER		VT	VS	VF							
	IN. 135° ASTRAGAL RECEIVER		WT	WS	WF							

SCREEN PANEL TYPES			
C	DOUBLE INTERLOCK		ASTRAGAL
M	LOCKSTILE		DOUBLE INTERLOCK
J	LOCKSTILE		ASTRAGAL
SD	SINGLE INTERLOCK		DOUBLE INTERLOCK
A	DOUBLE INTERLOCK		LOCKSTILE
U	ASTRAGAL		LOCKSTILE
DS	DOUBLE INTERLOCK		SINGLE INTERLOCK



PANEL TYPE "F" SHOWN.

PANEL NOTES:

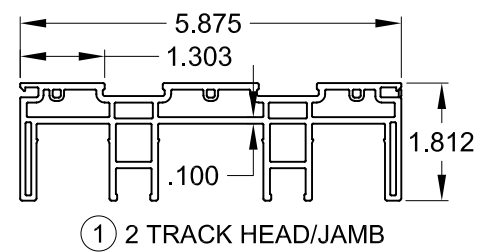
- 1) SEE DP/ANCHOR TABLES 1 & 2, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.
- 2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
- 3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".
- 4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.

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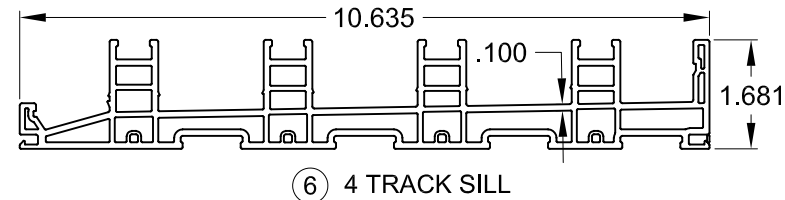
Series	Rev B	Rev A	Desc.	Title	Date
SGD-5470	NTS	17 OF 25	VINYL SLIDING GLASS DOOR TDI	PANEL TYPES	3/24/16
Scale	DWG No.	Sheet	Drawn By	Rev A Date	Rev B Date
NTS	TDI-SGD5470.2	17 OF 25	J ROSOWSKI		
Rev. No.					
A					

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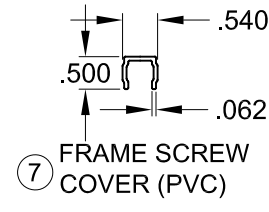
A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954



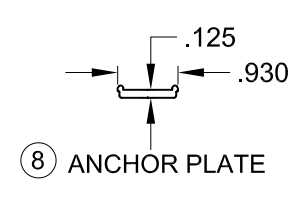
① 2 TRACK HEAD/JAMB



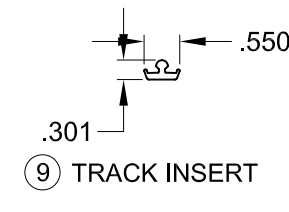
⑥ 4 TRACK SILL



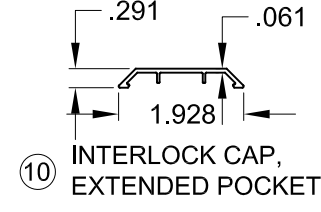
⑦ FRAME SCREW COVER (PVC)



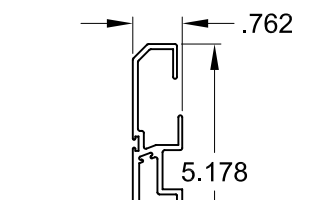
⑧ ANCHOR PLATE



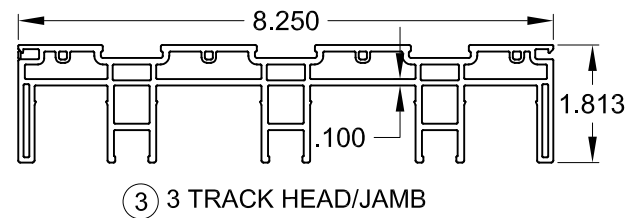
⑨ TRACK INSERT



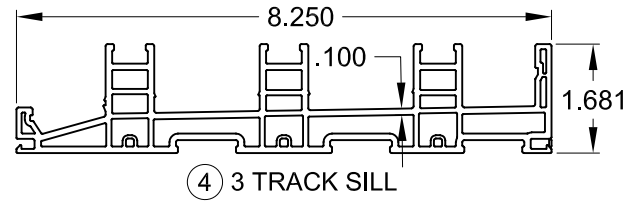
⑩ INTERLOCK CAP, EXTENDED POCKET



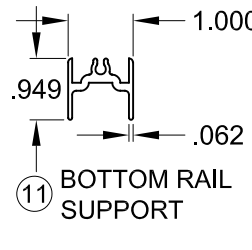
⑱ P-HOOK



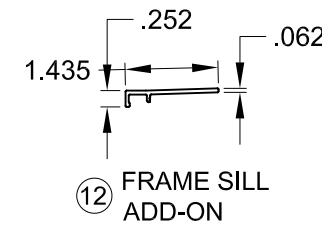
③ 3 TRACK HEAD/JAMB



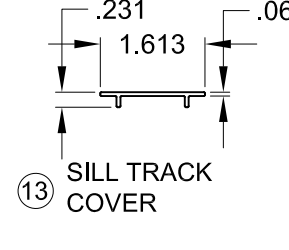
④ 3 TRACK SILL



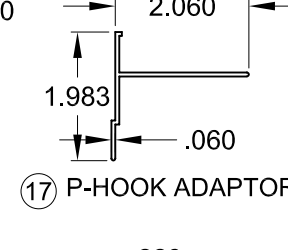
⑪ BOTTOM RAIL SUPPORT



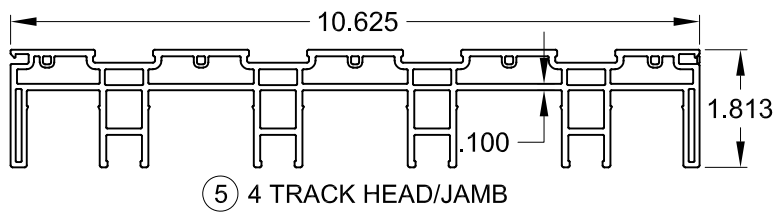
⑫ FRAME SILL ADD-ON



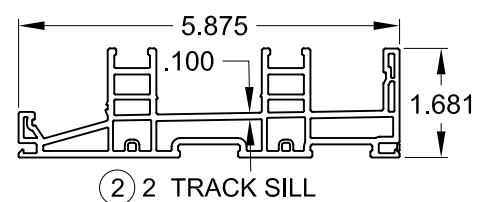
⑬ SILL TRACK COVER



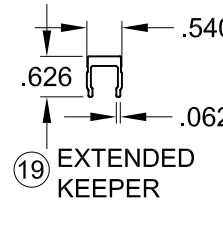
⑰ P-HOOK ADAPTOR



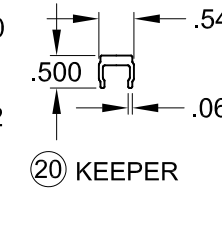
⑤ 4 TRACK HEAD/JAMB



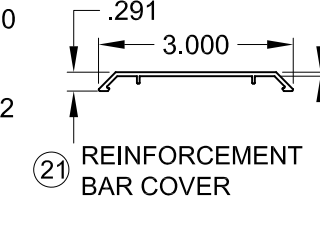
② 2 TRACK SILL



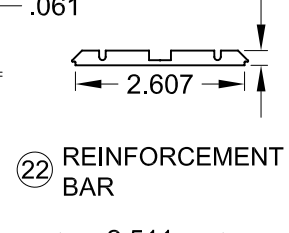
⑲ EXTENDED KEEPER



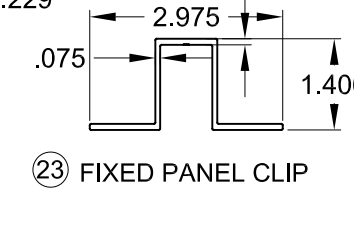
⑳ KEEPER



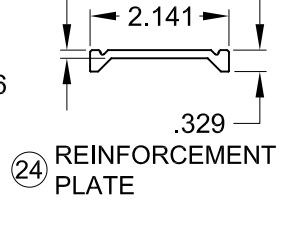
㉑ REINFORCEMENT BAR COVER



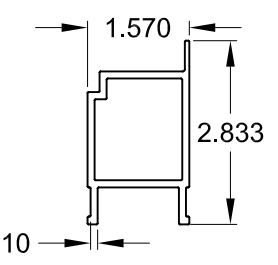
㉒ REINFORCEMENT BAR



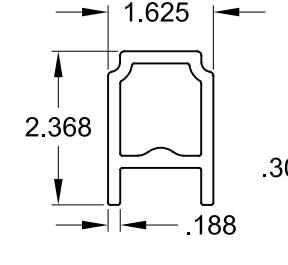
㉓ FIXED PANEL CLIP



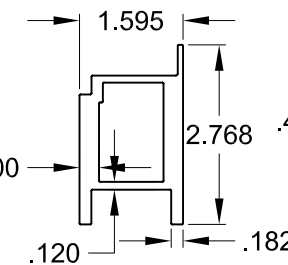
㉔ REINFORCEMENT PLATE



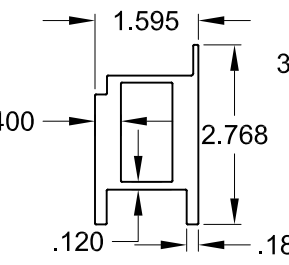
㉕ TOP, BOTTOM AND STILE REINFORCEMENT



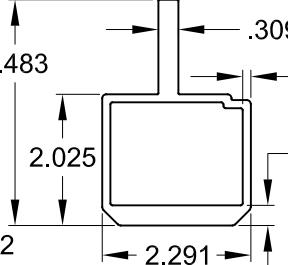
㉖ TOP, BOTTOM AND STILE COMPOSITE REINFORCEMENT



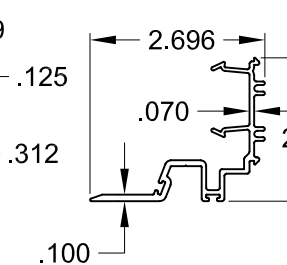
㉗ INTERLOCK .300 REINFORCEMENT, STANDARD



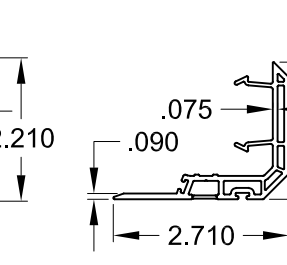
㉘ INTERLOCK .400 REINFORCEMENT, HEAVY-DUTY



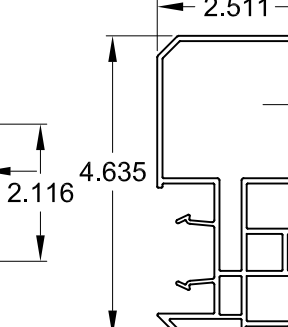
㉙ ASTRAGAL REINFORCEMENT



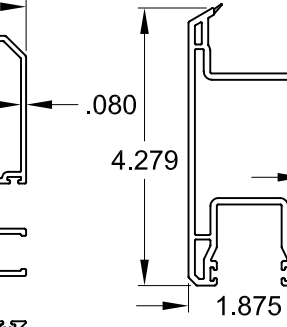
㉚ EXTENDED POCKET INTERLOCK ADAPTER



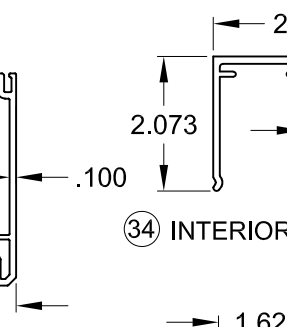
㉛ INTERLOCK ADAPTER



㉜ ASTRAGAL ADD-ON



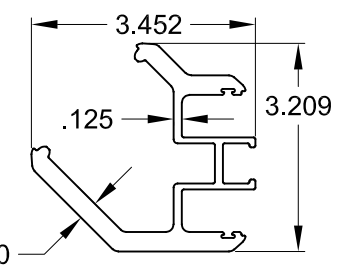
㉝ PANEL STILE, TOP AND BOTTOM RAIL



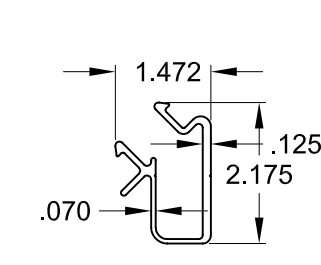
㉞ INTERIOR JAMB COVER



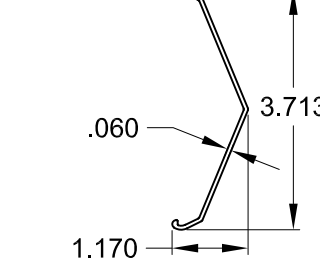
㉟ FRAME FIN-ADDON



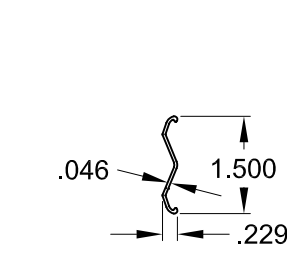
㉟ 135° CORNER ASTRAGAL



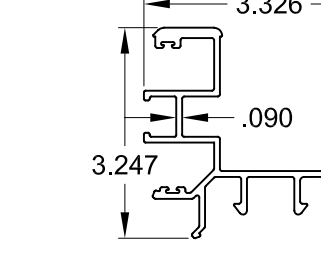
㊱ 135° CORNER PASSIVE MOUNT



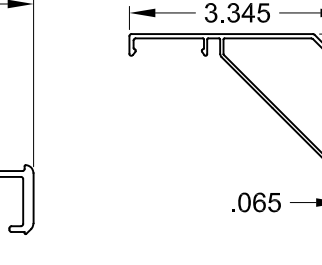
㊲ 135° CORNER ASTRAGAL CAP, EXTERIOR



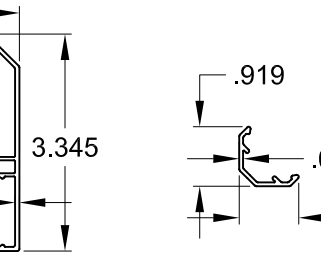
㊳ 135° CORNER ASTRAGAL CAP, INTERIOR



㊴ 90° CORNER ASTRAGAL



㊵ 90° CORNER ASTRAGAL CAP, EXTERIOR



㊶ 90° CORNER ASTRAGAL CAP, INTERIOR

NOTES:

- 1) SEE SHEET 4 FOR SILL RISERS.
- 2) SEE SHEET 20 FOR SCREEN PARTS.
- 3) ALL DIMENSIONS IN INCHES.

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Anthony Lynn Miller
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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series		Rev A		Title		Date	
SGD-5470		NTS		VINYL SLIDING GLASS DOOR TDI		3/24/16	
Scale				Drawn By			
18 OF 25				J ROSOWSKI			
Sheet		DWG No.		Rev A Date		Rev B Date	
18 OF 25		TDI-SGD5470.2					
Rev. No.		A					

TABLE C:

#	Part #	Description	Material
1	19001	2-Track Head/Jamb	Rigid PVC
2	19002	2-Track Sill	Rigid PVC
3	19025	3-Track Head/Jamb	Rigid PVC
4	19026	3-Track Sill	Rigid PVC
5	19027	4-Track Head/Jamb	Rigid PVC
6	19028	4-Track Sill	Rigid PVC
7	19009	Frame Screw Cover	Rigid PVC
8	19031	Anchor Plate	6063-T6 Alum.
9	19007	Track Insert	6063-T6 Alum.
10	19084	Interlock Cap - Extended Pocket	Rigid PVC
11	19036	Bottom Rail Support	6063-T6 Alum.
12	19006A	Outer Sill Cover	6063-T6 Alum.
13	19011	Sill Track Cover	Rigid PVC
17	19032	P-Hook Adapter	6063-T6 Alum.
18	19020	P-Hook	6063-T6 Alum.
19	19047M	Extended Keeper	6063-T6 Alum.
20	19029M	Keeper	6063-T6 Alum.
21	19014	Reinforcement Bar Cover	Rigid PVC
22	19030	Reinforcement Bar	6005-T5 Alum.
23	19037M	Fixed Panel Clip	6063-T6 Alum.
24	19035M	Reinforcement Plate	6063-T6 Alum.
25	19017M	Top Rail, Bottom Rail and Lockstile Reinforcement	6005-T5 Alum.
26	19046		Composite
27	19018M	Interlock .300 Reinforcement, Std.	6005-T5 Alum.
28	19013M	Interlock .400 Reinforcement, HD	6005-T5 Alum.
29	19019M	Astragal Reinforcement	6005-T5 Alum.
30	19083	Extended Pocket Interlock Adaptor	6063-T6 Alum.
31	19006	Interlock Adaptor	Rigid PVC
32	19008	Astragal Add-on	Rigid PVC
33	19004	Panel Stile, Top/Bottom Rail	Rigid PVC
34	19040	Interior Jamb Cover	6063-T6 Alum.
35	19076	135° Corner Astragal	6063-T6 Alum.
36	19077	135° Corner Astragal Passive Mount	6063-T6 Alum.
37	19079	135° Corner Astragal Cap - Ext.	Rigid PVC
38	19080	135° Corner Astragal Cap - Int.	Rigid PVC
39	19078	90° Corner Astragal	6063-T6 Alum.

#	Part #	Description	Material
40	19081	90° Corner Astragal Cap - Ext.	Rigid PVC
41	19082	90° Corner Astragal Cap - Int.	Rigid PVC
43	19022A	Sill Riser - (3-1/2")	6063-T6 Alum.
44	19023A	Sill Riser - (4-1/16")	6063-T6 Alum.
50	718609W	.187" x .320" Finseal (Stile)	
51	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug	
52	71696	Dust Plug	
60	419041	Interlock Clip Cover	PVC
61	78153X	Tandem Roller Assembly	SS
62	78153N	Tandem Roller Assembly	Nylon
63	78X75FPTX	#8 x 3/4" Ph. FH SMS @ Roller & Reinf.	SS
64	419042	Frame Header Block	Nylon
65	48052	Roller Adj. Hole Plug	PVC
66	44385	4 Hole Bumper Stop	PVC
67	76X114FPTX	#6 x 1-1/4" Ph. FH SMS @Bumper Stop	SS
68	71696G	Sill Plug	PVC
69	78185X	Gemini Mortise Lock w/long Trim plate	Steel/SS
70	71032X1FPFX	10-32 x 1" Ph.FH MS @ Lock	SS
71	varies	Handle Kit	Cast Zinc
75		Kommerling 4SG TPS Spacer System	See Sheet 10 for Materials
76		Quanex Super Spacer nXT with Hot Melt Butyl	
77		Quanex Duraseal	
78		Cardinal XL Edge Spacer	
79		Dow-791, 983, 995 or RGS-7700 Backbedding	Silicone
82	19044	1-1/16" Beveled Bead	Rigid PVC
83	19045	1-1/16" Ogee Bead	Rigid PVC
86	71726K	Setting Block 1" x 4" x 1/16", 85 +/- 5 duro.	Neoprene
90	781PSTX	#8 x 1" Ph. PH SMS @ Frame Assembly	SS
91	78X114PHPT410X	#8 x 1-1/4" Ph. PH SMS @ Reinf. Bar	SS
92	710X1PHPT18-8X	#10 x 1" Ph. PH SMS @ Rail Support	SS
93	710X115PPX	#10 x 1-1/2" Ph. PH SMS @ Fxd. Pnl. Clip	SS
94	710X2.5PHPT18-8X	#10 x 2-1/2" Ph. PH SMS @ Reinf. Plate/Ast.	SS
95	71420X2.25FPFX	#12 x 2-1/4" Ph. PH SMS @ Hdr. Block	SS
96	710X1.75PPX	#10 x 1-3/4" Ph. FH SMS @ Keeper	SS
97	710X34PPX	#10 x 3/4" Ph. PH SMS @ Ext. Pkt. Int.	SS
99	19033	Frame Fin Addon	6063-T6 Alum.

TABLE D: BOX SCREEN

#	Part #	Description	Material
100	12256	Box Screen Top Rail	6063 T5 Al
101	12257	Box Screen Bottom Rail	6063 T5 Al
102	12258	Box Screen Side Rail	6063 T5 Al
103	64428	Box Screen Interlock	6063 T6 Al
104	17347A	Box Screen Snap-on Bug Flap	6063 T6 Al
105	64345	Box Screen OXO Astragal Adapter	6063 T6 Al
106	17349	Box Screen Astragal Adapter	6063 T5 Al
107	19039	Box Screen Frame Sill Add-on	6063 T6 Al
108	19038	Box Screen Head/Jamb Add-on	6063 T6 Al
109	720X1X	#14-20 x 1" MS @ Top Rail	SS
110	720X112X	#14-20 x 1-1/2" MS @ Bottom Rail	SS
111	71793G	Wstp, .270" x .150" - Fin Seal	
112	61805K	Wstp, .187" x .500" @ Bug Flap	
113	7SRAZ	Standard Roller	Nylon
114	7SRAX	HD Roller	SS
115	varies	Screen Locking Hardware	Steel
116	419053	Screen Keeper	Steel
117	76X1PPA	#6 x 1" Ph. PH SMS	Steel
118	1692/3/4	Screen Spline - .150" & .165"	Vinyl
119	1816C20	Screen Cloth	Fiberglass

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
120	12033	Screen Frame Rail	6063 T5 Al
121	12026A	Screen Frame - Side Rail (Latch)	6063 T5 Al
122	17363	Screen OXO Astragal Adapter	6063 T6 Al
123	4853K	Screen Vinyl Astragal Adapter	Rigid PVC
124	19012B	Frame Sill Screen Add-on	6063 T6 Al
125	6FP95K	Bug Flap, 85 +/- 5 duro.	Vinyl
126	78X112PSATS	#8 x 1-1/2" Ph. PH SMS (Assembly)	SS
127	712027	Corner Key Wheel Assembly (Standard)	Nylon
128	712027SS	Corner Key Wheel Assembly (HD)	SS
129	varies	Screen Locking Hardware	Steel
130	710X34PPSDAX	#10 x 3/4" Ph. PH SMS @ Screen Ast.	SS
131	78X12PPSMSX	#8 x 1/2" Ph. PH SMS @ Door Ast.	SS
132	1692/3/4	Screen Spline - .145"	Vinyl
133	1816C20	Screen Cloth	Fiberglass

NOTES:


1) ITEMS # 14-16, 42, 45-49, 53-59, 72-74, 80, 81, 84, 85, 87-89, 98 & 99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

Series	Rev 1	VINYL SLIDING GLASS DOOR TDI		Date	3/24/16
	Rev 2	PARTS LIST		Drawn By	J ROSOWSKI
Scale	NTS	Sheet	21 OF 25	DWG No.	TDI-SGD5470.2
Rev 1 Date		Rev 2 Date		Rev No.	A

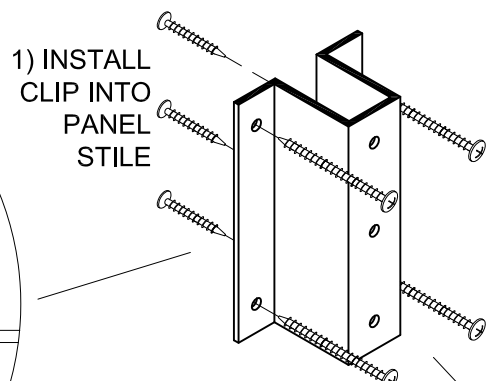
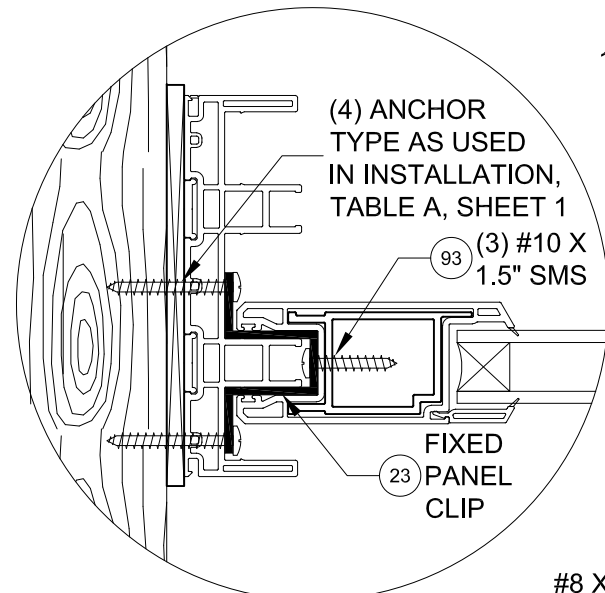


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P.E.# 106594

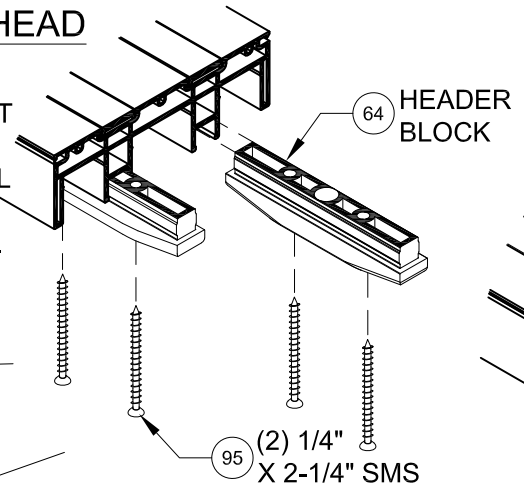


1) INSTALL CLIP INTO PANEL STILE

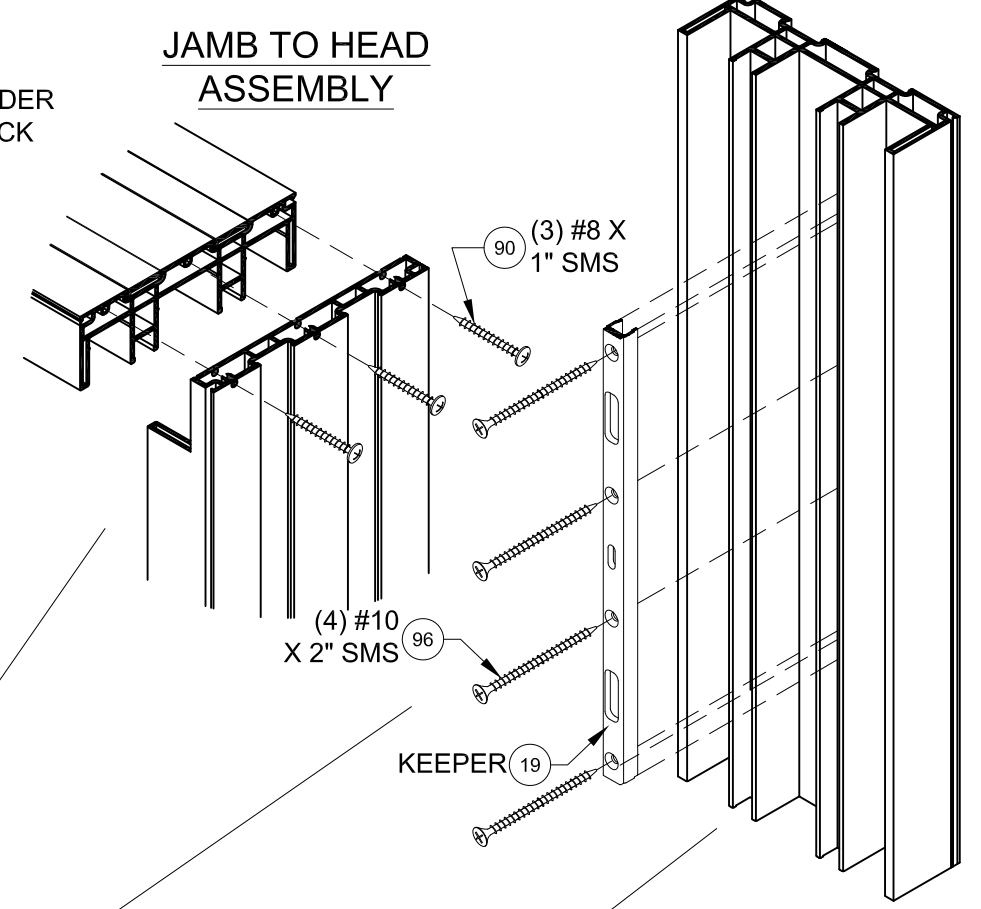
2) INSTALL CLIP INTO FRAME JAMB & SUBSTRATE, SEE TABLE 1

HEADER BLOCK TO HEAD ATTACHMENT

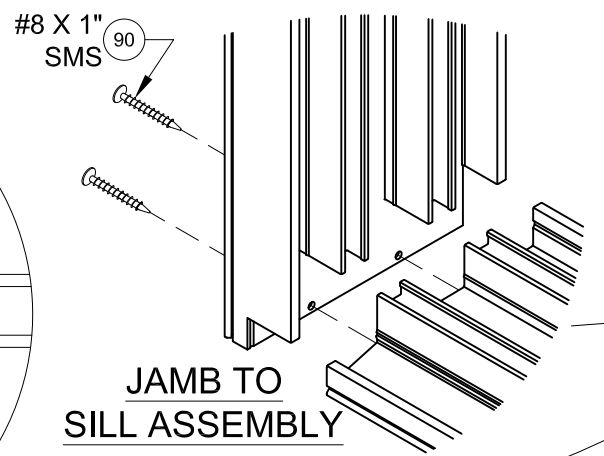
INSTALL ONE BLOCK AT EACH INTERLOCK. AT ASTRAGAL, INSTALL ONE BLOCK THAT SPANS BOTH PANELS.



JAMB TO HEAD ASSEMBLY



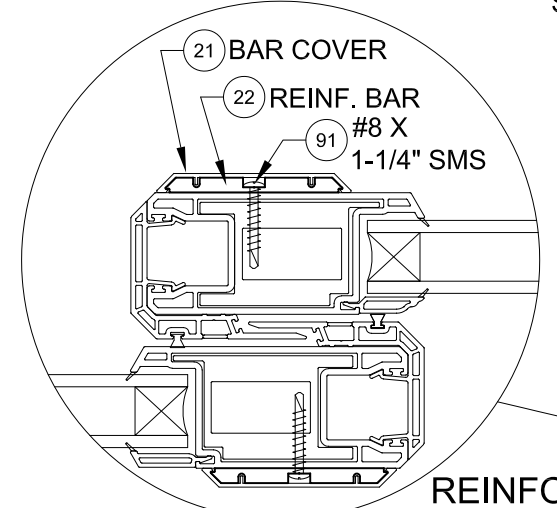
FIXED PANEL CLIP
INSTALL ONE CLIP AT THE MIDSPAN OF EACH FIXED PANEL-TO-FRAME JAMB LOCATION.



JAMB TO SILL ASSEMBLY

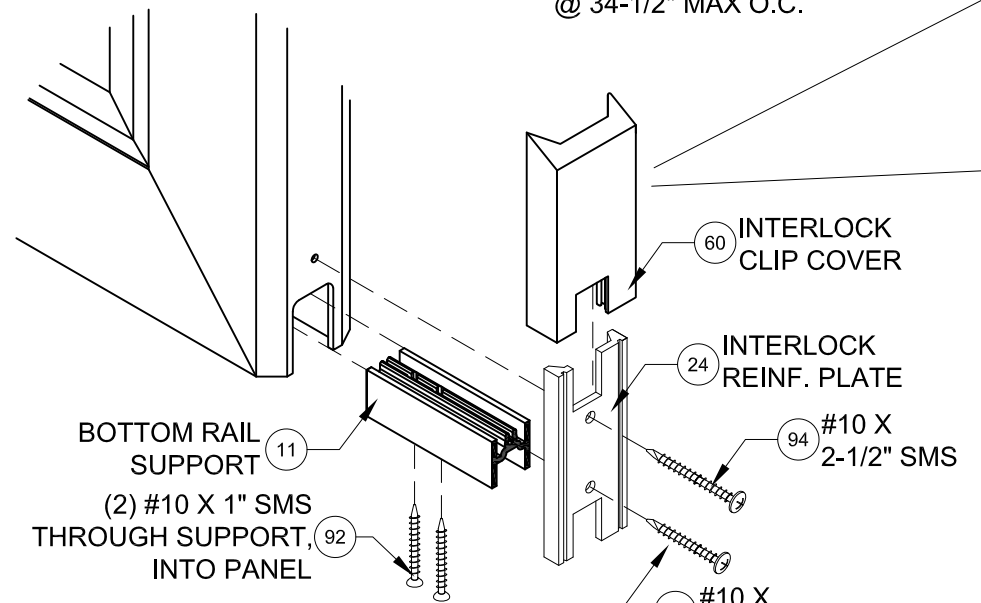
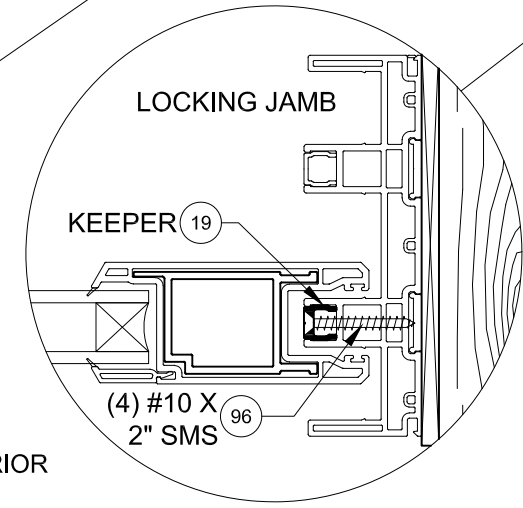
REINFORCEMENT PLATE

ATTACH WITH #8 X 1-1/4\"/>



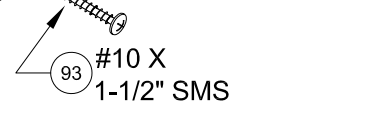
4-PANEL, 2-TRACK OXXX SHOWN

KEEPER TO JAMB ATTACHMENT



INTERLOCK SILL RETAINER CLIP ATTACHMENT

INSTALL ONE ASSEMBLY AT EACH INTERLOCK



PANEL ASSEMBLY
ALL PANEL CORNERS WELDED, NO ASSEMBLY FASTENERS

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 11-16 FOR ANCHOR LOCATION & SPACING.
- 3) SEE TABLES 1 & 2 FOR REINFORCEMENT REQUIREMENTS.
- 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.

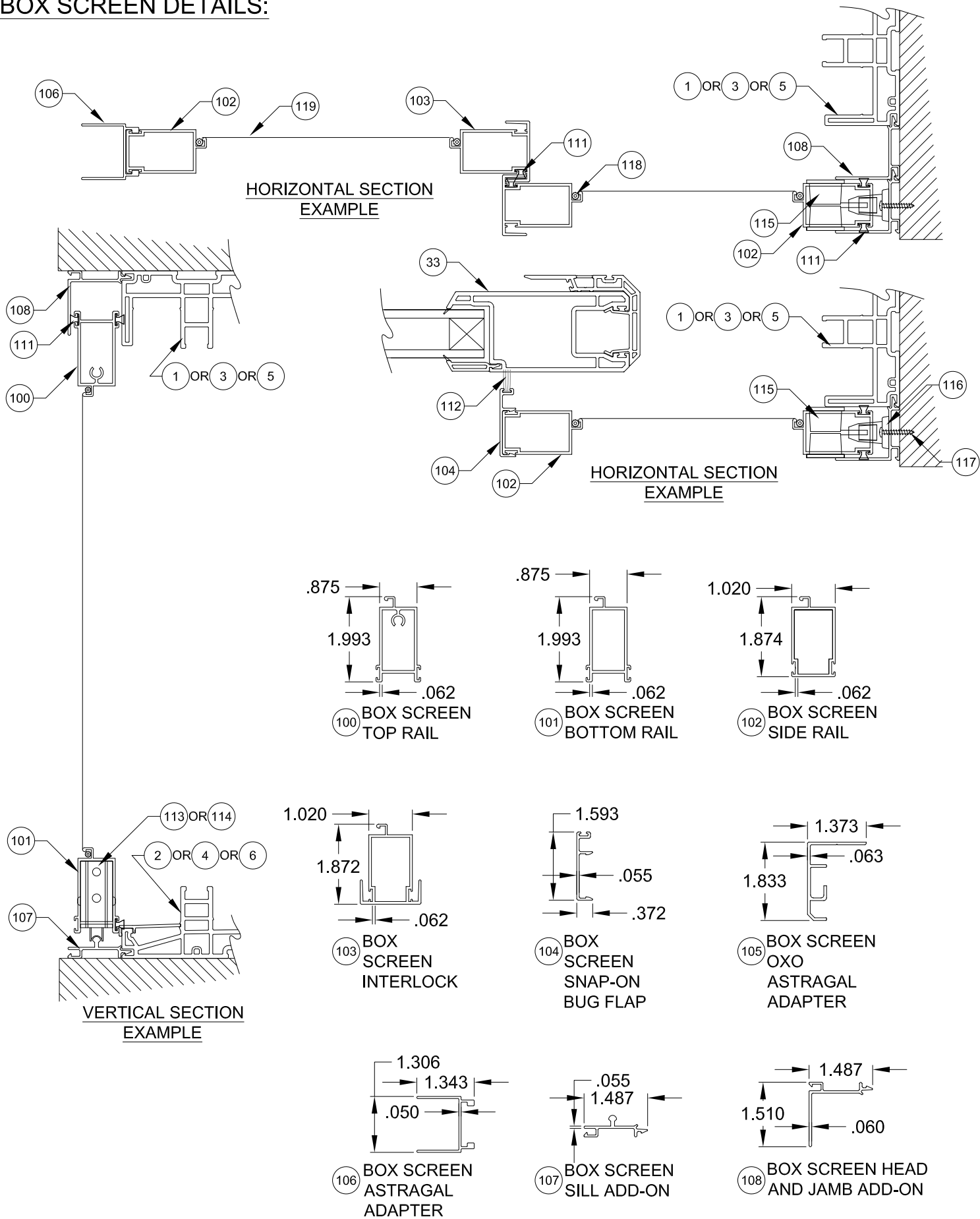
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series	Rev A	Rev B	Desc.	Title	Date
SGD-5470			ACCESSORIES INSTALLATION	VINYL SLIDING GLASS DOOR TDI	3/24/16
Scale	NTS	Sheet	19 OF 25	DWG No.	TDI-SGD5470.2
Rev. No.	A	Drawn By	J ROSOWSKI	Rev A Date	
		Rev B Date			

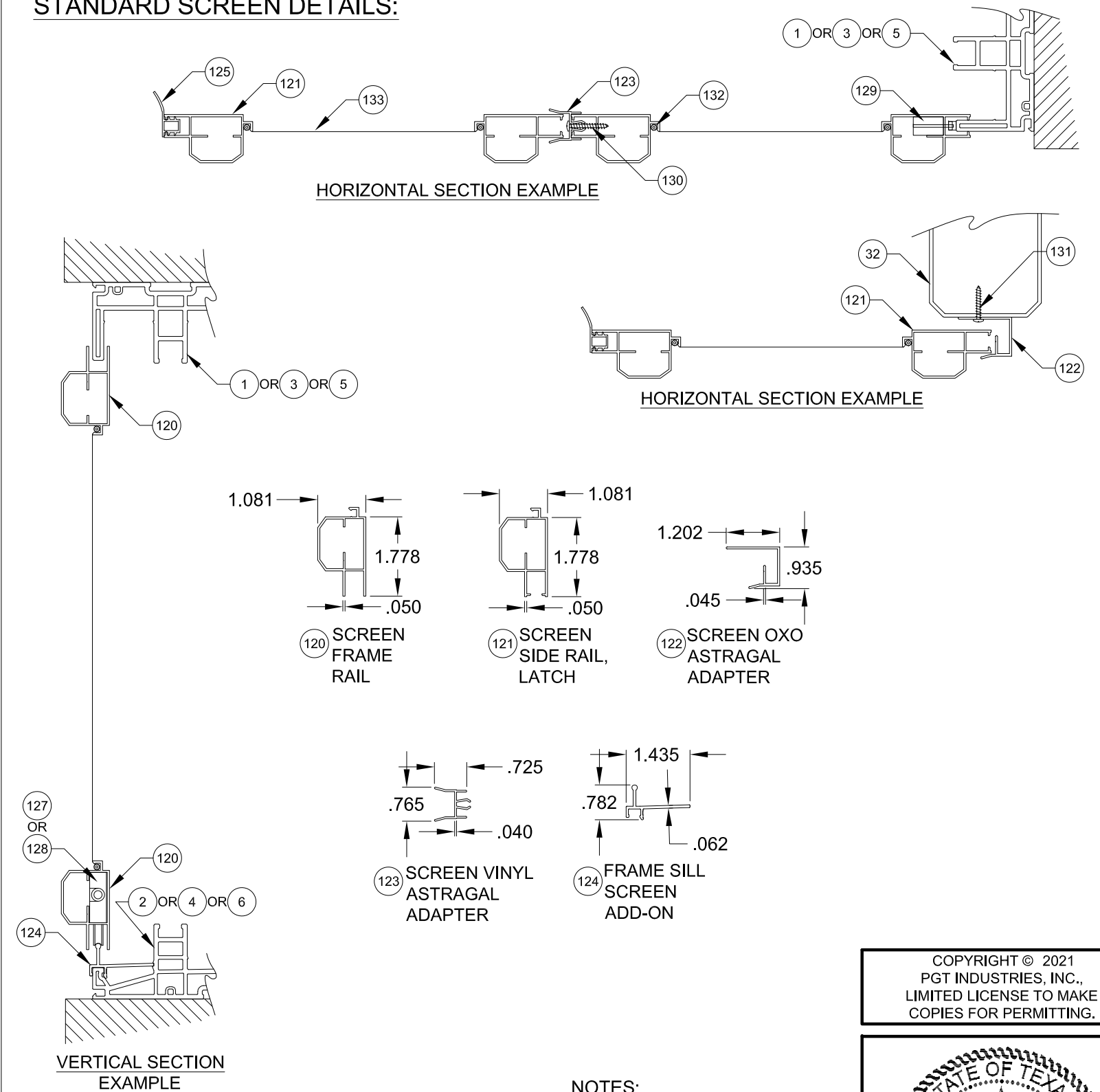
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A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

BOX SCREEN DETAILS:



STANDARD SCREEN DETAILS:



NOTES:
1) ALL DIMENSIONS IN INCHES.

PGI

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series	Rev A	Desc.	Title	Date
SGD-5470		VINYL SLIDING GLASS DOOR TDI	SCREEN DETAILS	3/24/16
Scale	NTS	Sheet	20 OF 25	DWG No.
				TDI-SGD5470.2
Drawn By	J ROSOWSKI	Rev A Date	Rev B Date	Rev No.
				A

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★ ANTHONY LYNN MILLER ★
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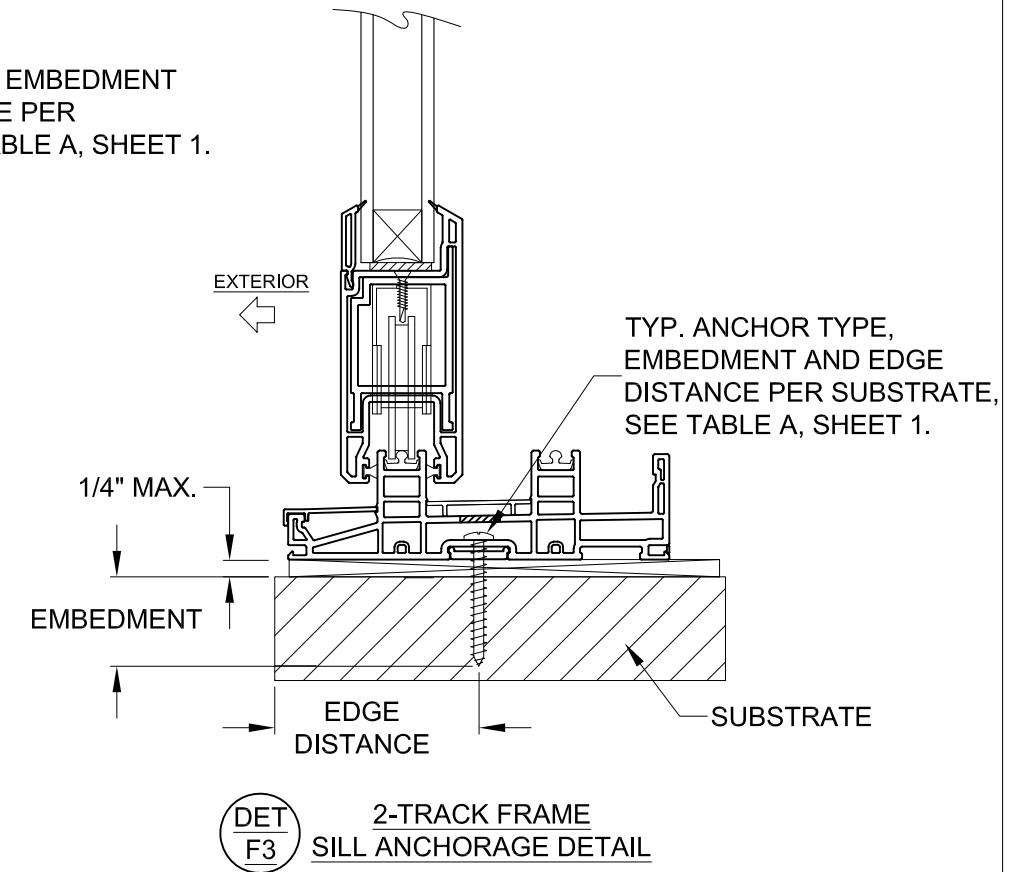
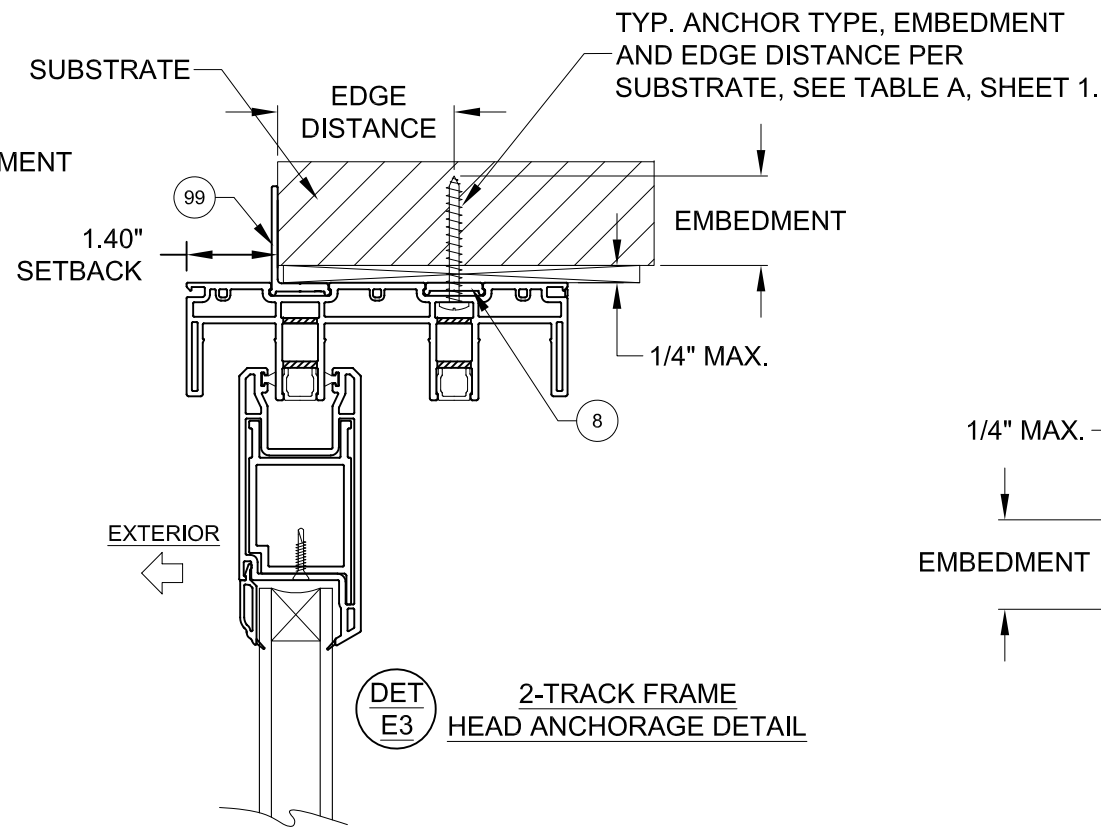
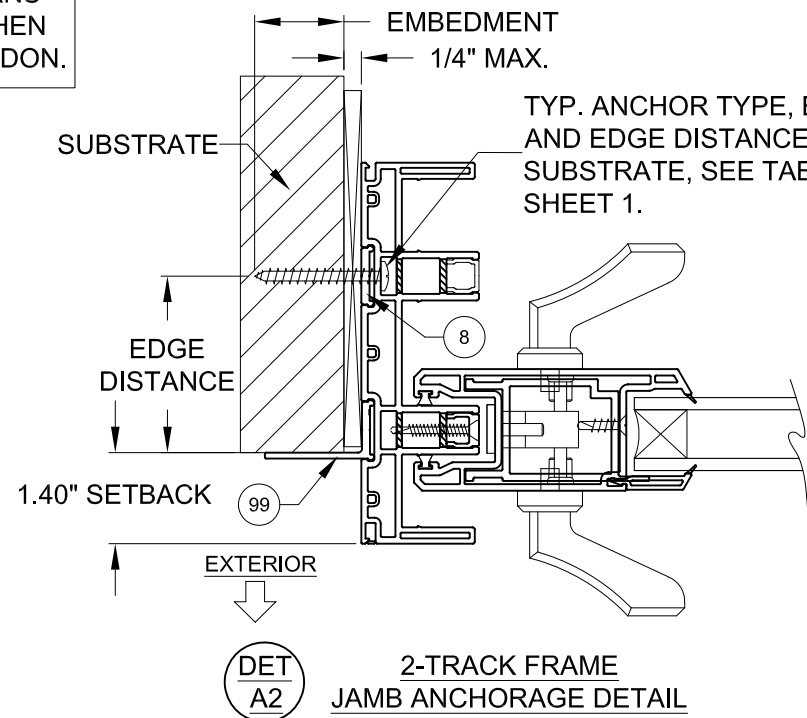
A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

ANCHORAGE DETAILS FOR SLIDING GLASS DOORS WHEN INSTALLED WITH FRAME FIN ADDON @ HEAD AND JAMB (SHEETS 22-25)

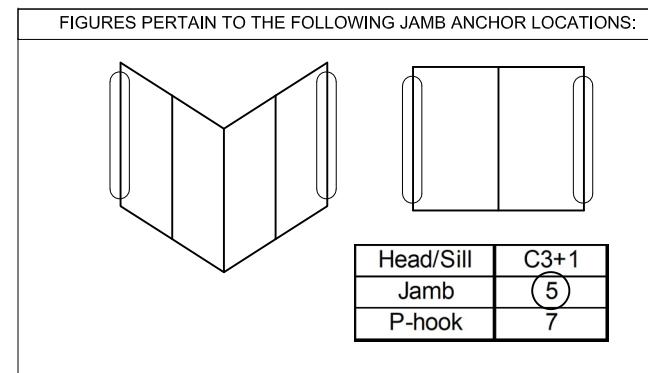
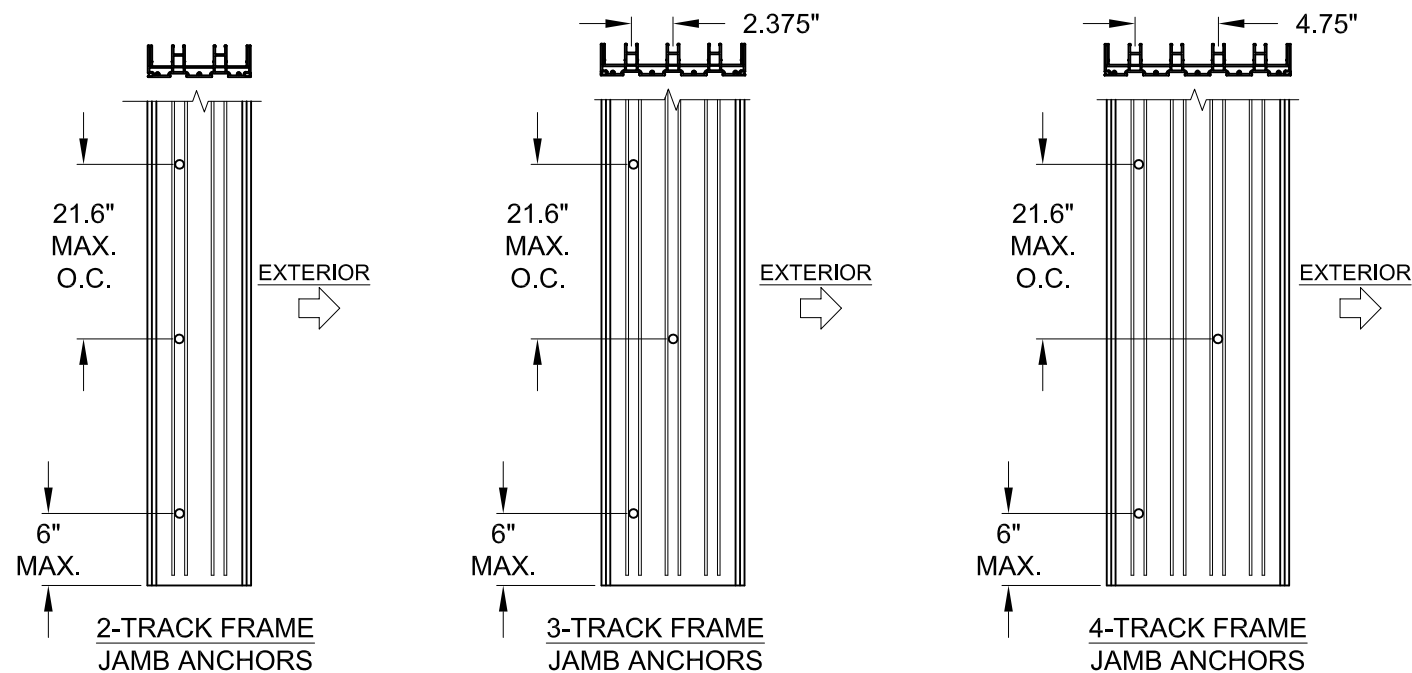
TO ACHIEVE PROPER ANCHOR EDGE DISTANCE, THE FOLLOWING SHEETS (22-25) SHOW ANCHOR PATTERNS THAT MUST BE USED WHEN USING THE FRAME FIN ADDON.

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) REFER TO TABLE A FOR ANCHOR CONSTRAINTS.
- 3) SILL ANCHORAGE WITH FIN ADDON IS UNCHANGED FROM THE BOX FRAME ANCHORAGE.

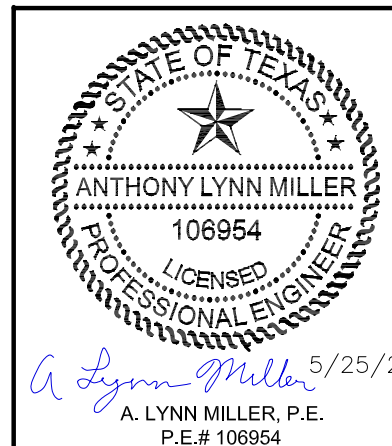


JAMB ANCHORS LAYOUT (USING FRAME FIN ADDON):



- NOTES:
- 1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS IN THE INTERIOR TRACK MAY BE LOCATED IN THE ADJACENT TRACK AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS FROM THE INTERIOR.

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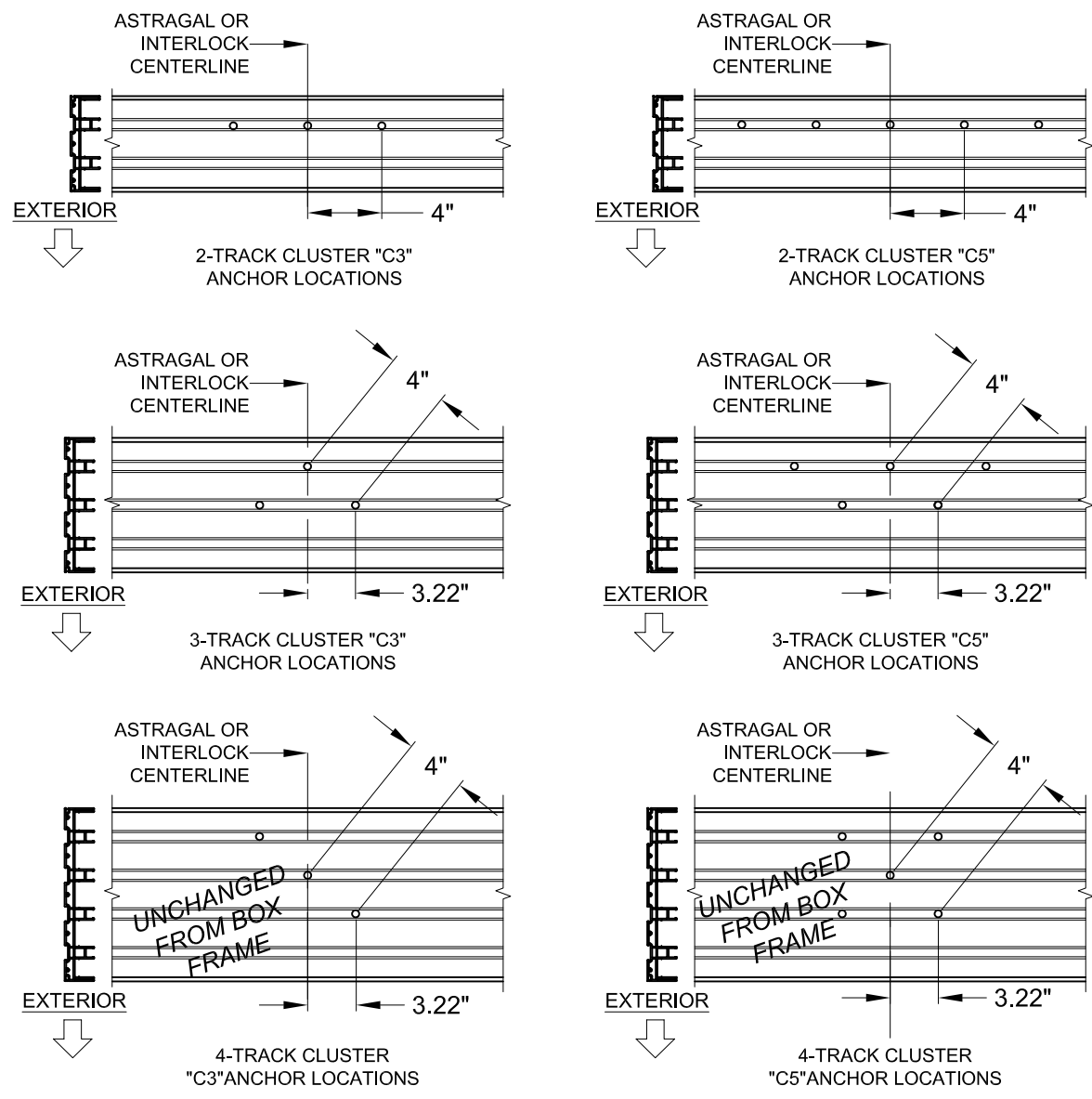


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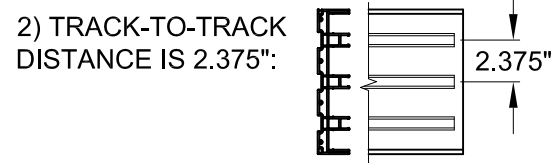
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Series	Rev A	Desc.	Title	Date
SGD-5470	1	Anchor Locations A	VINYL SLIDING GLASS DOOR TDI	3/24/16
Scale	NTS	Sheet	22 OF 25	DWG No.
				TDI-SGD5470.2
				Rev. No.
				A

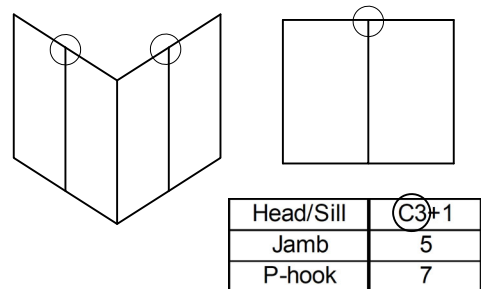
HEAD CLUSTER ANCHORS LAYOUT (USING FRAME FIN ADDON):



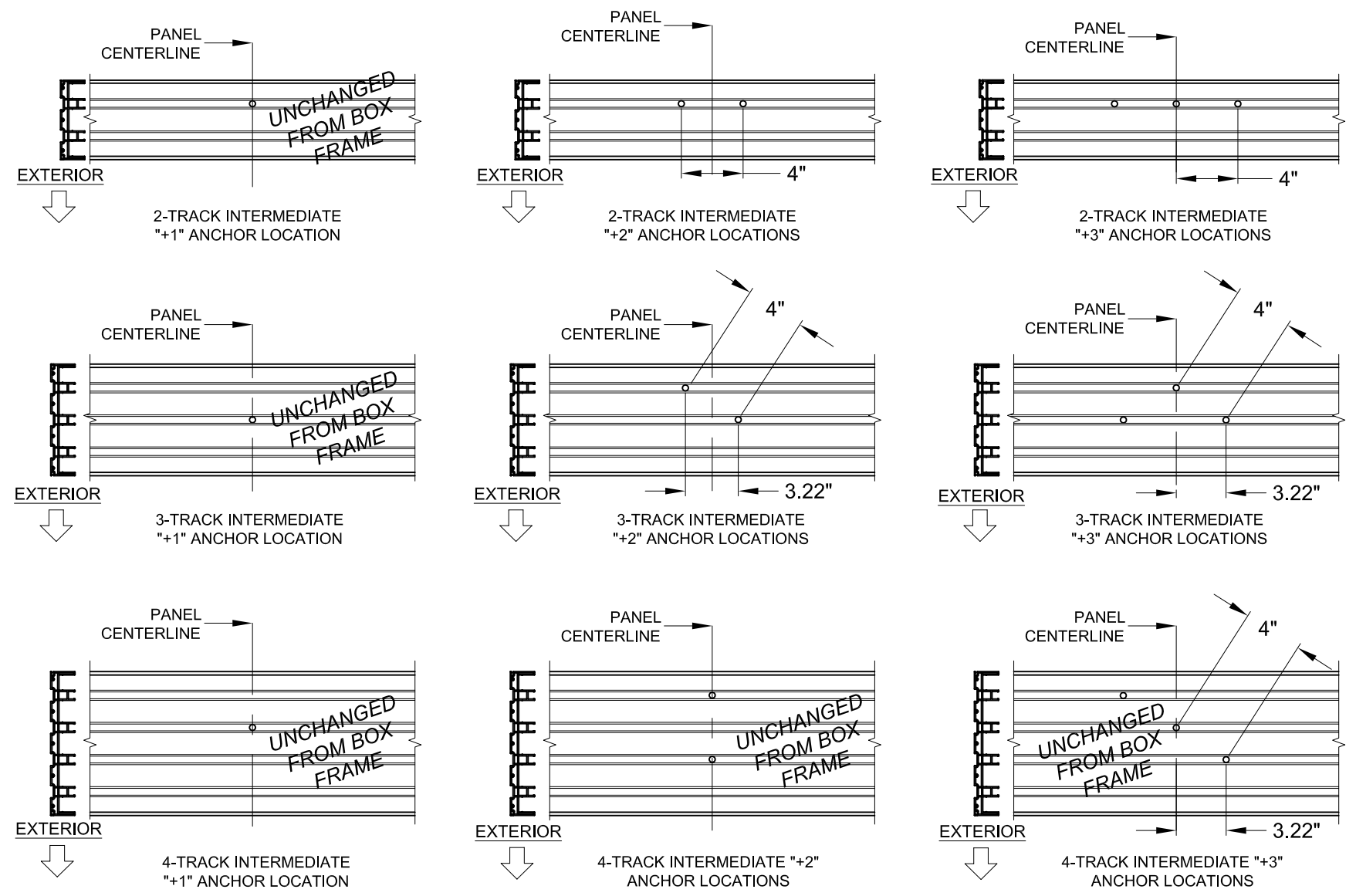
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.



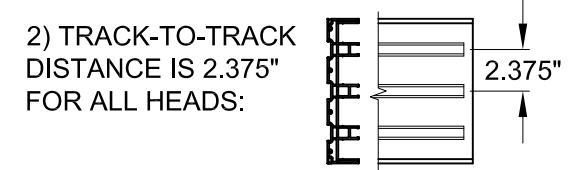
FIGURES PERTAIN TO THE FOLLOWING HEAD CLUSTER ANCHOR LOCATIONS:



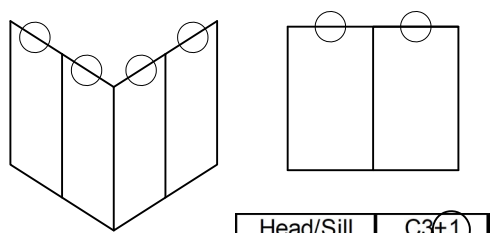
HEAD "+" INTERMEDIATE ANCHORS LAYOUT (USING FRAME FIN ADDON):



NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.



FIGURES PERTAIN TO THE FOLLOWING HEAD INTERMEDIATE ANCHOR LOCATIONS:



Series	SGD-5470	Scale	NTS	Sheet	23 OF 25	DWG No.	TDI-SGD5470.2	Rev. No.	A	
Title	VINYL SLIDING GLASS DOOR TDI						Date	3/24/16		
Desc.	ANCHOR LOCATIONS B				Drawn By	J ROSOWSKI				
Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	Rev. 1	
Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	Rev. 2	

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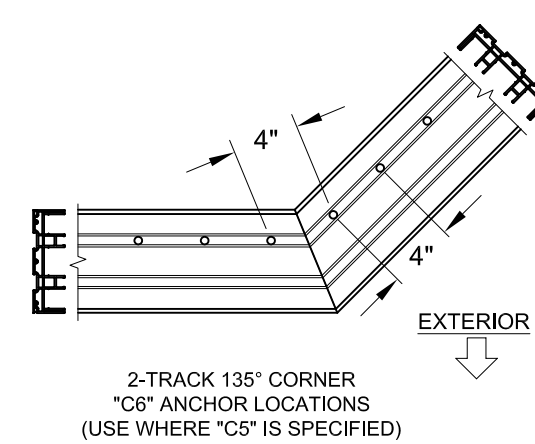
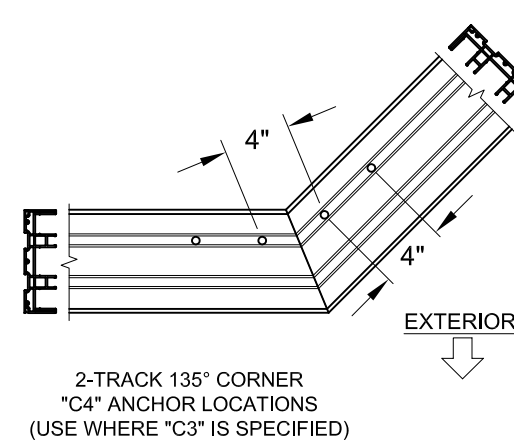
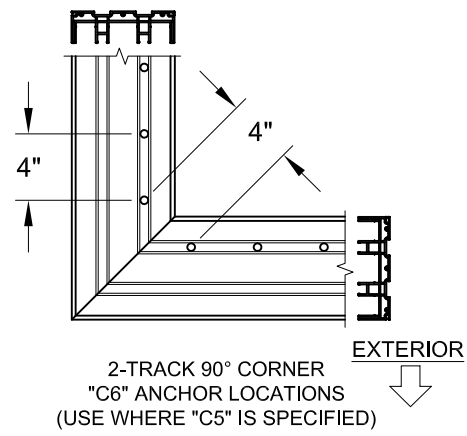
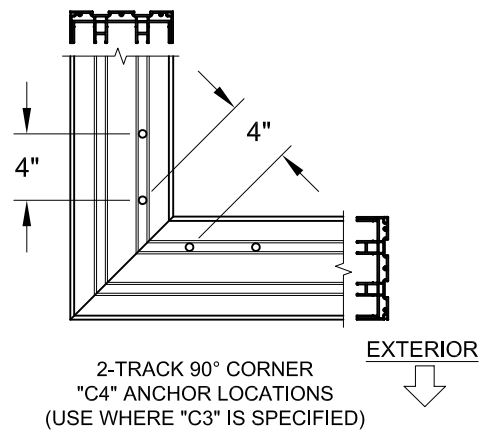
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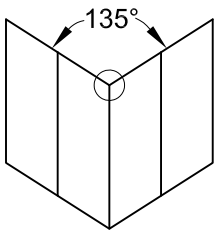
A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106594

HEAD 90° CORNER CLUSTER ANCHORS LAYOUT (USING FRAME FIN ADDON):

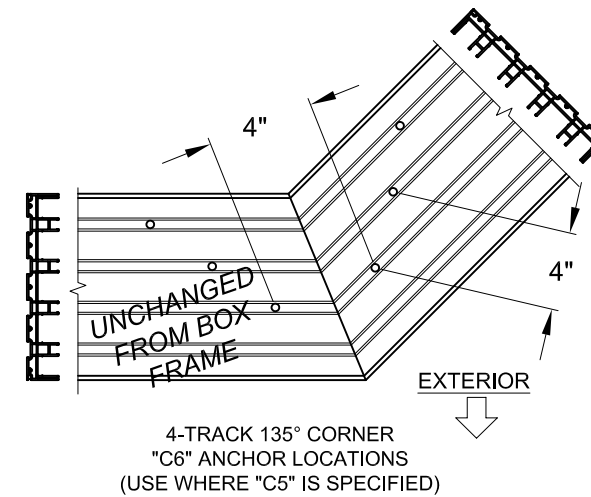
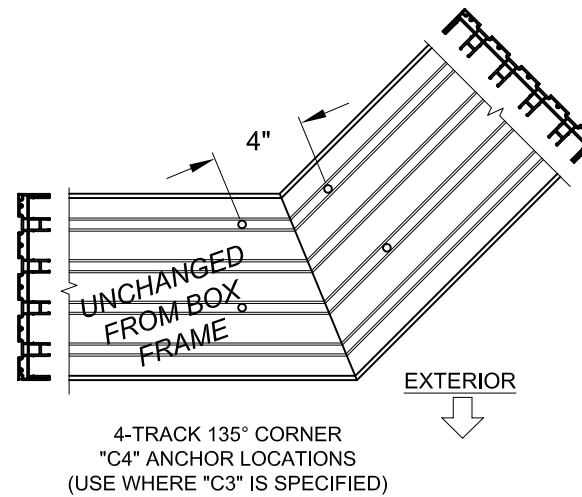
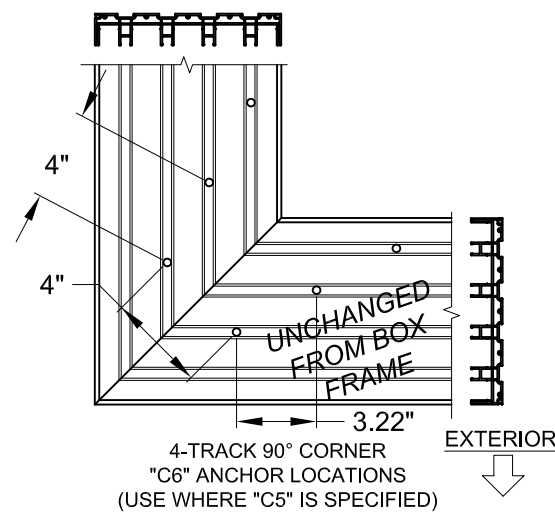
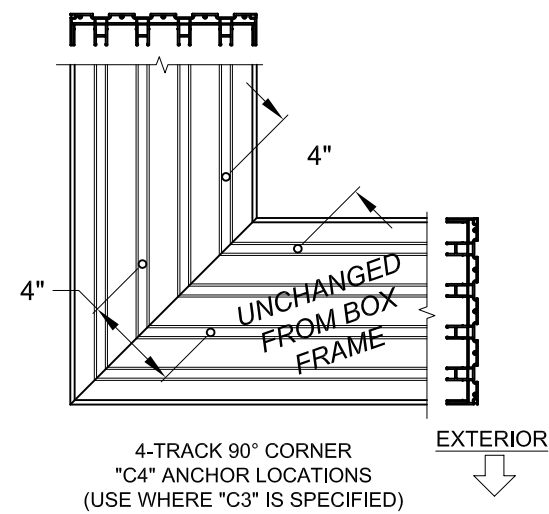
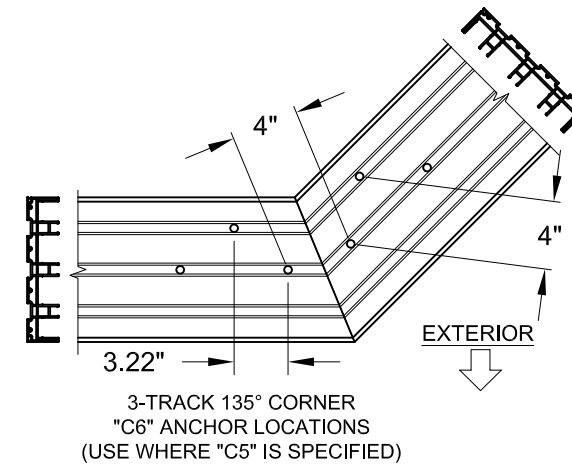
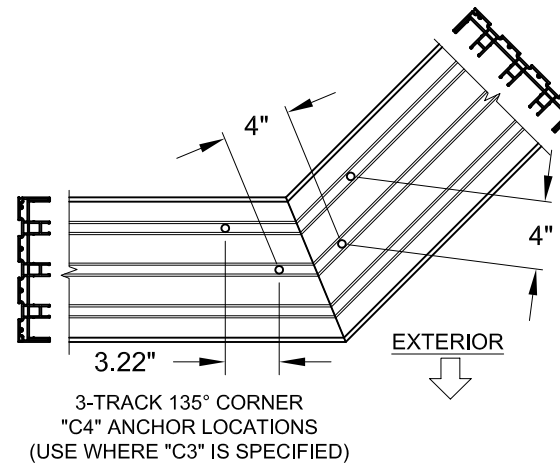
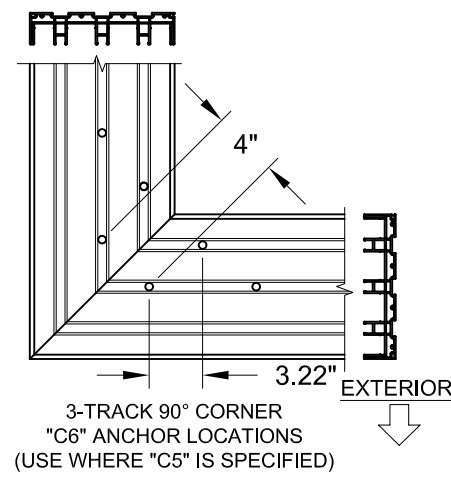
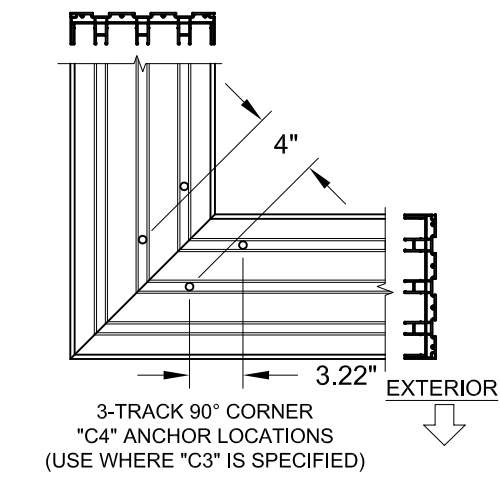
HEAD 135° CORNER CLUSTER ANCHORS LAYOUT (USING FRAME FIN ADDON):



FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

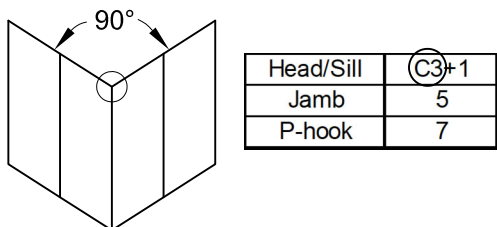


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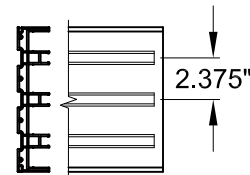
A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:



NOTES:

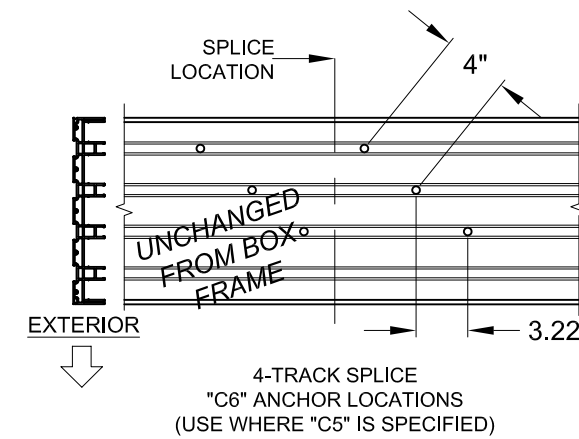
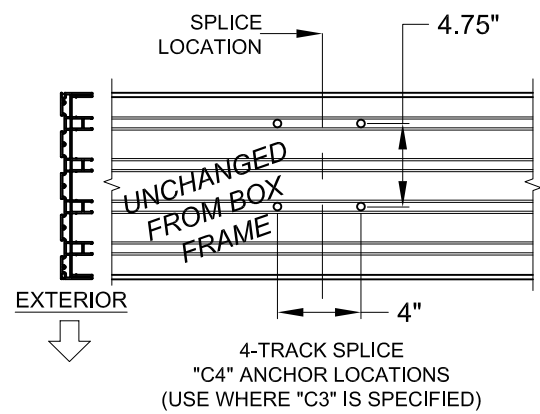
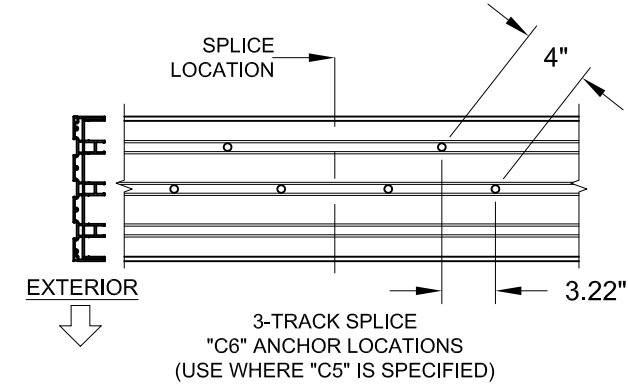
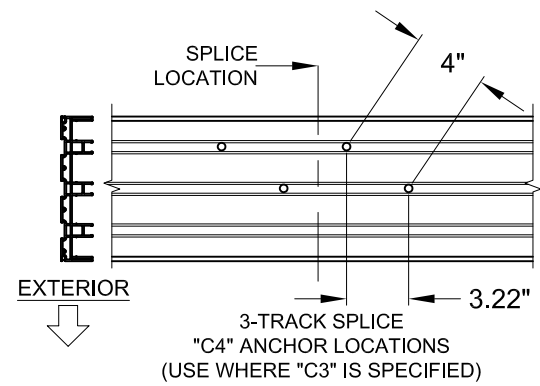
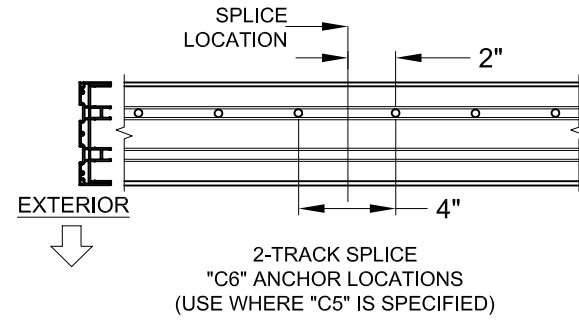
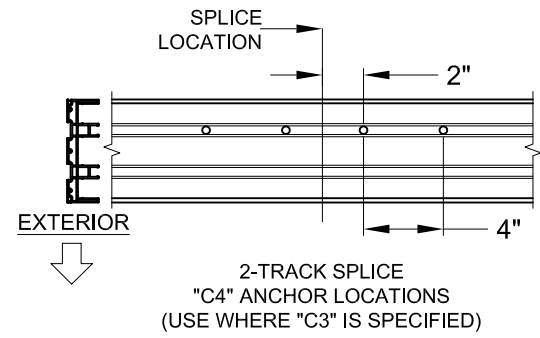
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375":



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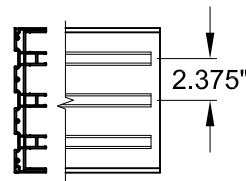
Series	Rev 1	Desc.	Title	Date
SGD-5470	Rev 2	NTS	VINYL SLIDING GLASS DOOR TDI ANCHOR LOCATIONS C	3/24/16
Scale	Sheet	DWG No.	Rev 1 Date	Rev 2 Date
NTS	24 OF 25	TDI-SGD5470.2		
Rev. No.	A			

HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FRAME FIN ADDON):

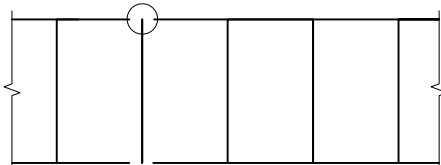


NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 9.
- 3) TRACK-TO-TRACK DISTANCE IS 2.375":

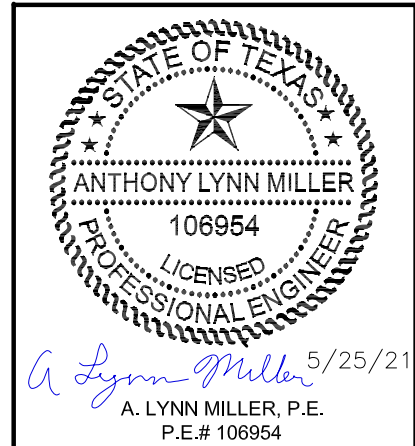


FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

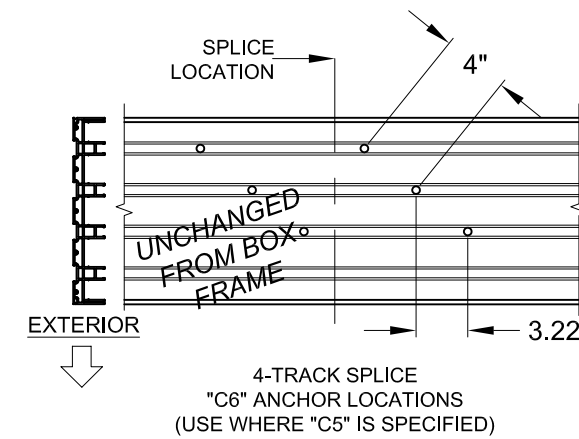
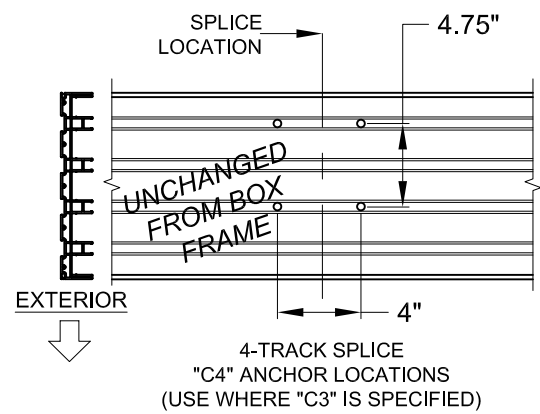
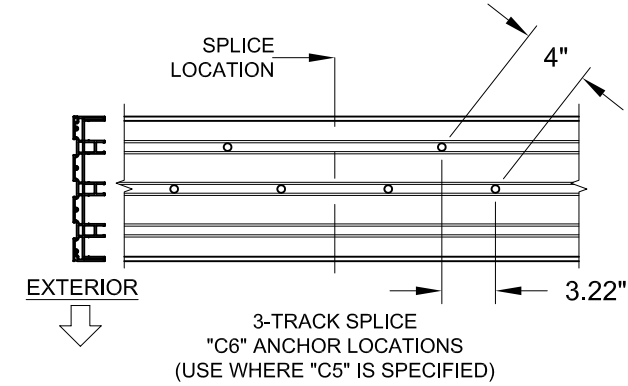
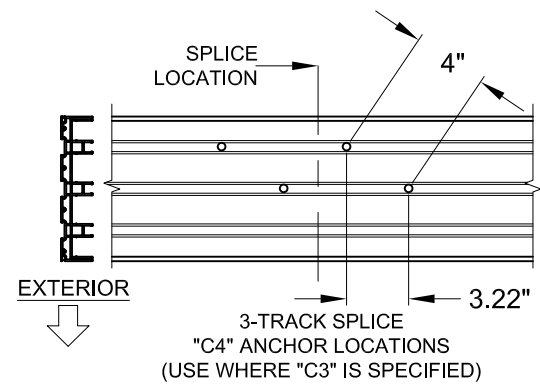
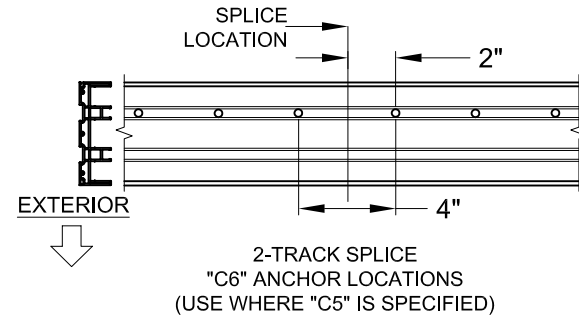
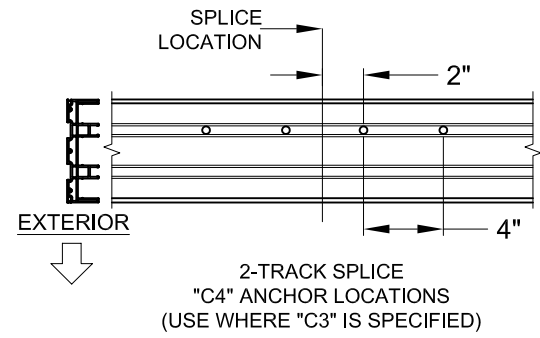
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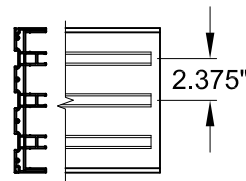
Series	Rev. 1	Rev. 2	Scale	NTS	Sheet	25 OF 25	DWG No.	TDI-SGD5470.2	Rev. No.	A
Title		VINYL SLIDING GLASS DOOR TDI		Date	3/24/16		Drawn By		J ROSOWSKI	
Desc.		ANCHOR LOCATIONS D		Rev. 1 Date			Rev. 2 Date			

HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FRAME FIN ADDON):

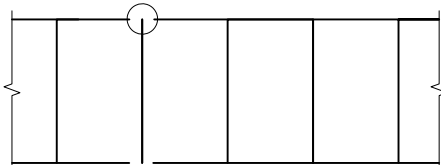


NOTES:

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- 3) TRACK-TO-TRACK DISTANCE IS 2.375":

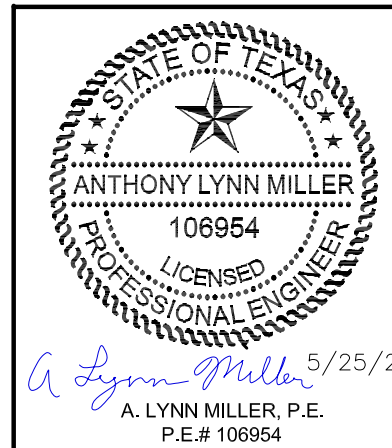


FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



Head/Sill	(C3)+1
Jamb	5
P-hook	7

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Title		VINYL SLIDING GLASS DOOR TDI		Date	3/24/16		Drawn By		J ROSOWSKI	
Desc.		ANCHOR LOCATIONS D		Rev. 1 Date			Rev. 2 Date			