

SERIES LS9000T NON-IMPACT RESISTANT,
2 AND 3 TRACK LIFT AND SLIDE DOOR WITH
OR WITHOUT EXTERIOR/INTERIOR POCKET

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE REQUIRED MIN. EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING & FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) 1/4" MAX. SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TESTING AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TESTING AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

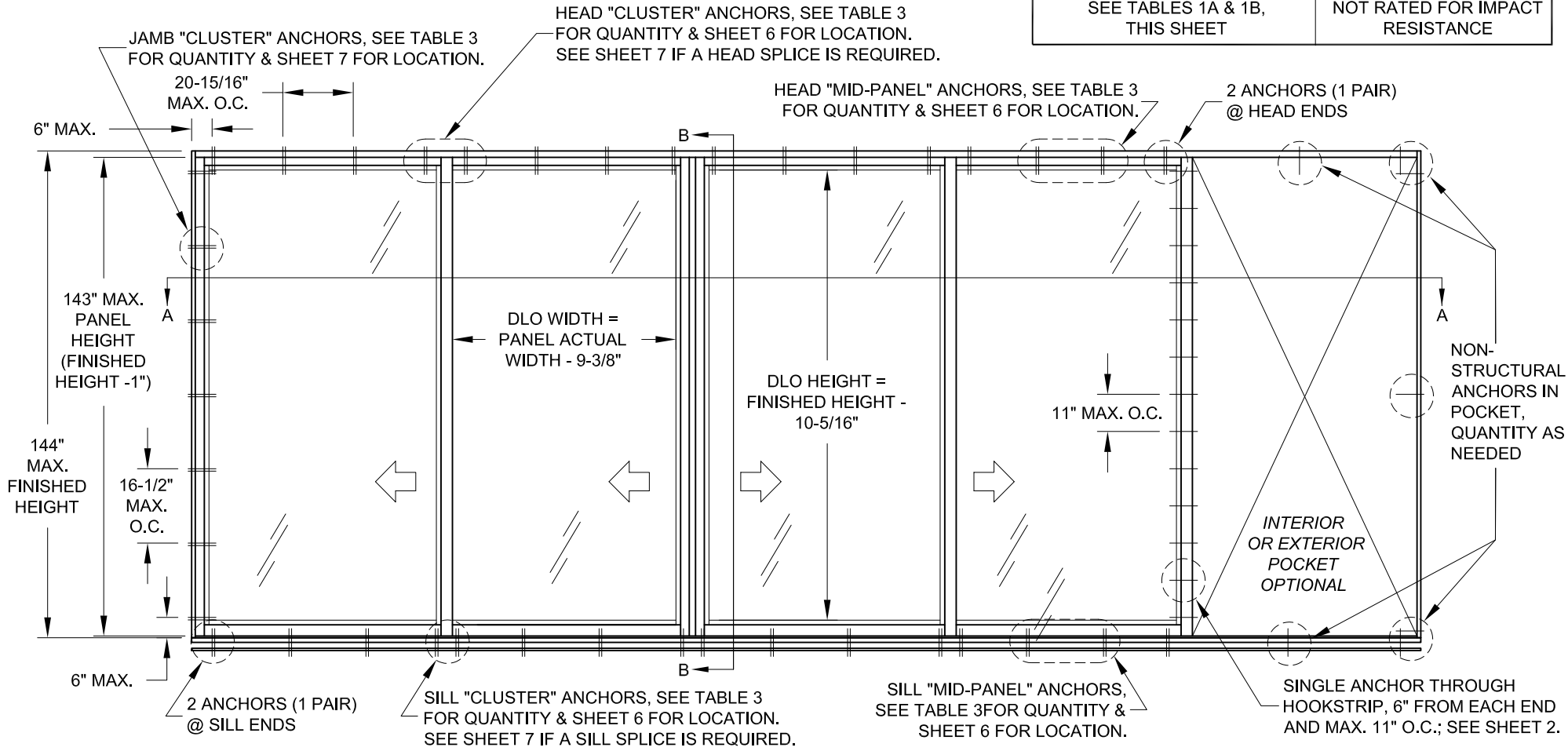
7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

8) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

9) REFERENCES: TEST REPORT NCTL 210-4014-01A; ELCO ULTRACON NOA; ELCO CRETEFLEX NOA; ELCO AGGRE-GATOR NOA; NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, ANSI/AF&PA NDS & ALUMINUM DESIGN MANUAL

10) APPLICABLE EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

FLORIDA PRODUCT APPROVAL #27479



XXXXP ELEVATION (AS TESTED)

TABLE 1A:

Design Pressure (lbs/ft ²)													
Nominal Panel Width	Panel DLO Width	Finished Height											
		80"		96"		108"		120"		132"		144"	
24"	17.670"	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0
36"	29.670"	+90.0	-90.0	+90.0	-90.0	+90.0	-90.0	+84.7	-90.0	+75.8	-85.3	+68.6	-77.1
48"	41.670"	+90.0	-90.0	+90.0	-90.0	+77.1	-86.8	+67.5	-75.9	+60.0	-67.5	+54.0	-60.8
54"	47.670"	+90.0	-90.0	+83.5	-90.0	+71.1	-80.0	+61.9	-69.7	+54.9	-61.7	+49.2	-55.4
60"	53.670"	+90.0	-90.0	+78.5	-88.4	+66.5	-74.8	+57.6	-64.8	+50.8	-57.2	+45.5	-51.2
66"	59.670"	+90.0	-90.0	+74.8	-84.2	+62.8	-70.7	+54.2	-60.9	+47.6	-53.6	+42.5	-47.8
72"	65.670"	+90.0	-90.0	+72.0	-81.0	+60.0	-67.5	+51.4	-57.9	+45.0	-50.6	+40.0	-45.0

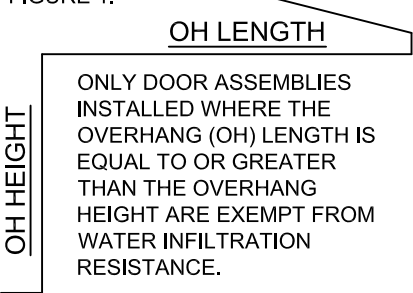
TABLE 1B:

Water-Limited (+) Design Pressure, psf	
If Condition A applies:	Use Values in Table 1A.
If Condition B applies:	Use the lesser of +70.0 psf or the values in Table 1A.

CONDITION A:
WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THIS SHEET.

CONDITION B:
WATER INFILTRATION RESISTANCE IS REQUIRED.

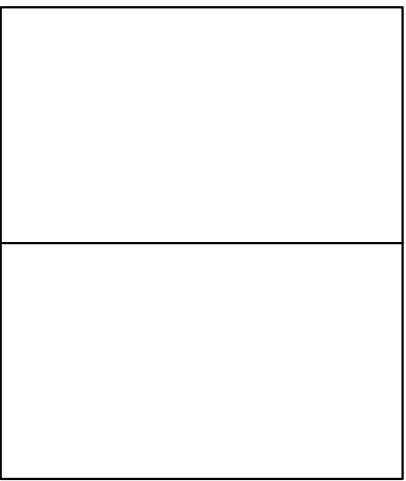
FIGURE 1:



UNLIMITED NUMBER OF PANELS IN ANY 2-TRACK OR 3-TRACK CONFIGURATION WITH OR WITHOUT INT./EXT. POCKETS ARE APPROVED AS LONG AS INDIVIDUAL NOMINAL PANEL WIDTH DOES NOT EXCEED MAXIMUM TESTED NOMINAL PANEL WIDTH OF 72" AND TESTED FINISHED HEIGHT OF 144" IS NOT EXCEEDED.

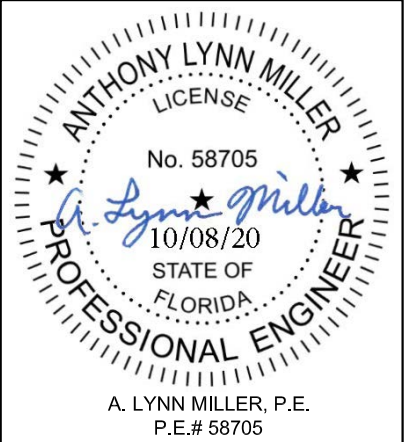
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ANCHOR LOCATIONS @ SPLICE....	7

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1A & 1B, THIS SHEET	NOT RATED FOR IMPACT RESISTANCE



Revision:
ADDED SHEET 7, SPLICE INFO AND ULTRACON+ ANCHORS. - JR - 10/07/20

WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		REGISTRATION #29296			
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Title	ALUMINUM LIFT AND SLIDE DOOR (NI)		Date	07/30/19	
Series Desc.		GENERAL NOTES & ELEVATION		By	JENS ROSOWSKI
LS9000T-NI		1 OF 7		DWG No.	9000NI-FPA-1
Sheet				Rev.	A



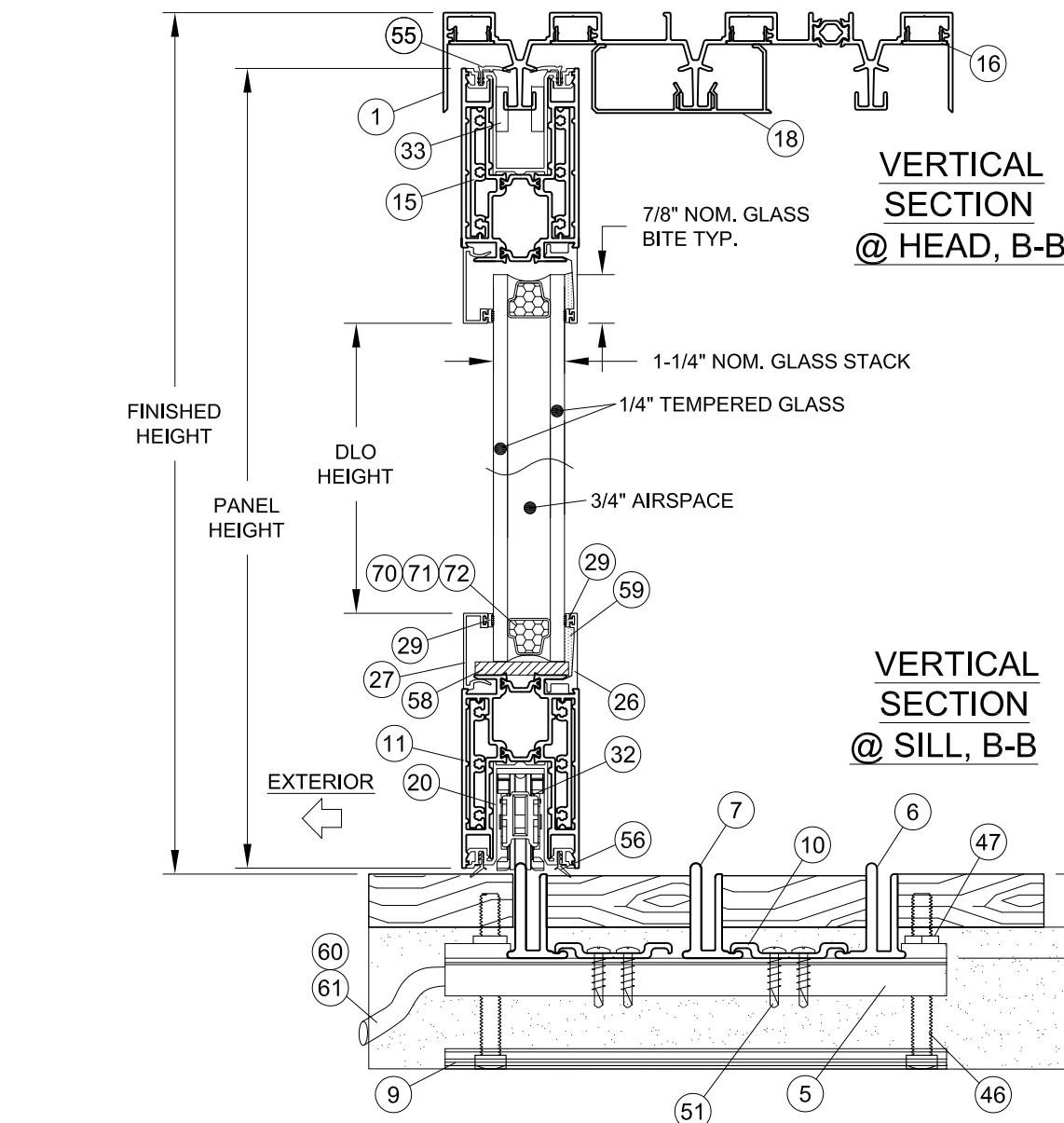
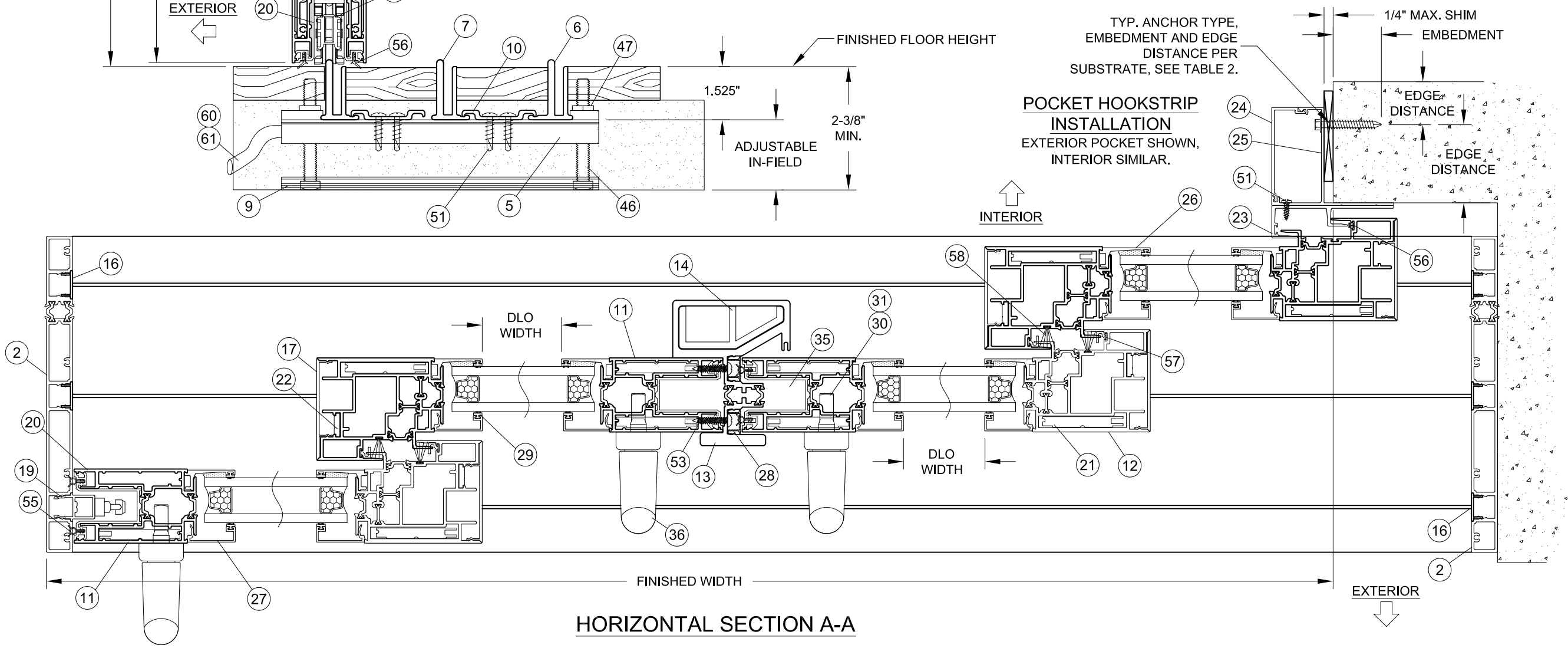


TABLE 2:

Anchor	Substrate	Anchor Location on Frame	Min. Edge Distance	Min. Embedment
#14 Steel, 18-8 or 410 SS Screw (min. 3 threads beyond metal substrate)	Southern Pine (SG=0.55)	All	5/8"	1-3/8"
	Aluminum, 6063-T5 min.	All	3/8"	1/8"
	A36 Steel	All	3/8"	0.063"
	Steel Stud, Gr. 33 min.	All	3/8"	0.057" (16 Ga)
1/4" Steel Ultracon	Concrete (min. 2.85 ksi)	All	1-5/8"	1-3/4"
	Grouted or Ungouted CMU, (ASTM C-90)	Jamb/Hookstrip	1-5/8"	1-1/4"
	Southern Pine (SG=0.55)	All	1"	1-3/8"
1/4" Steel Ultracon+	Concrete (min. 3.0 ksi)	Head/Sill/Jamb	1-7/8"	1-3/4"
	Concrete (min. 3.0 ksi)	Hookstrip	1-1/8"	1-3/4"
	Grouted or Ungouted CMU, (ASTM C-90)	Jamb/Hookstrip	1"	1-1/4"
	P.T. Southern Pine (SG=0.55)	Head/Sill/Jamb	1"	1-3/8"
1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	All	1-5/8"	1-3/4"
	Grouted or Ungouted CMU, (ASTM C-90)	Jamb/Hookstrip	1-5/8"	1-1/4"
	Southern Pine (SG=0.55)	All	1"	1-3/8"
1/4" Steel AggreGator	Concrete (min. 2.22 ksi)	All	1-1/2"	1-3/8"
	Grouted or Ungouted CMU, (ASTM C-90)	Jamb/Hookstrip	2"	1-1/4"
	Southern Pine (SG=0.55)	All	1"	1-3/8"



Revision:
ADDED ULTRACON+ ANCHORS. - JR - 10/07/20

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07/30/19
Date

JENS ROSOWSKI
By

9000NI-FPA-1
No.

2 OF 7
DWG

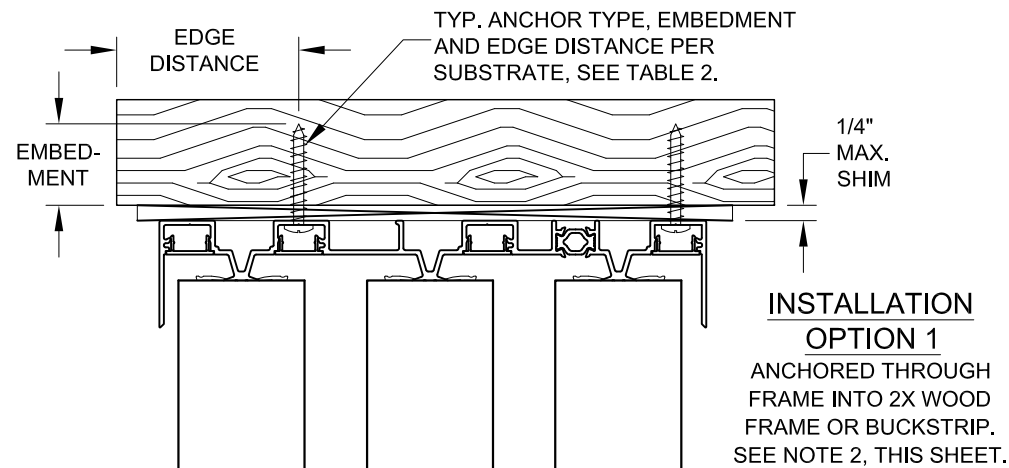
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ALUMINUM LIFT AND SLIDE DOOR (NI)
Title

X-SECTION & ANCHOR TABLE
Desc.

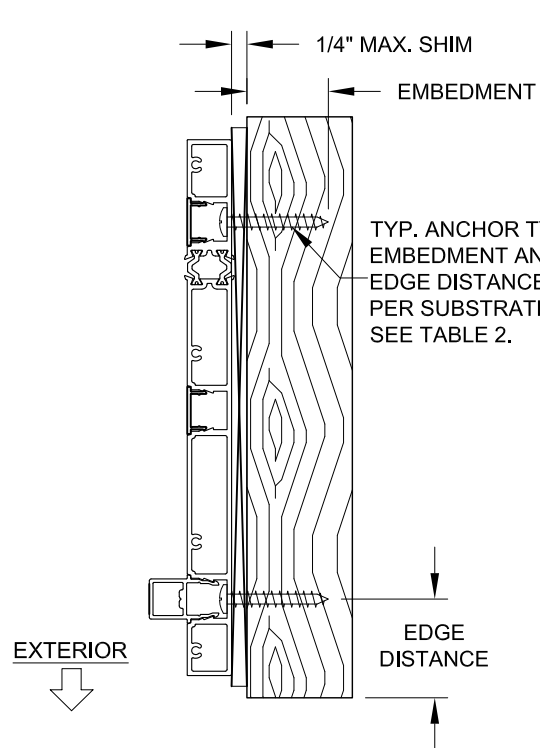
Rev. A



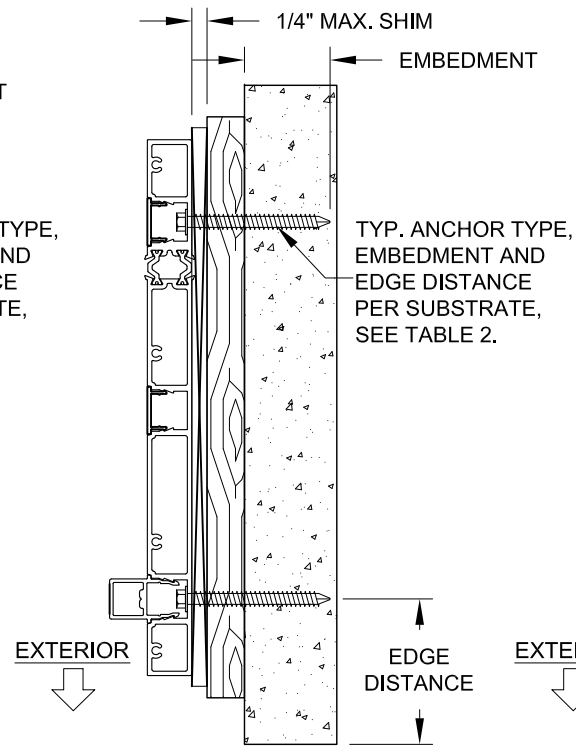


**INSTALLATION
OPTION 1**
ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.

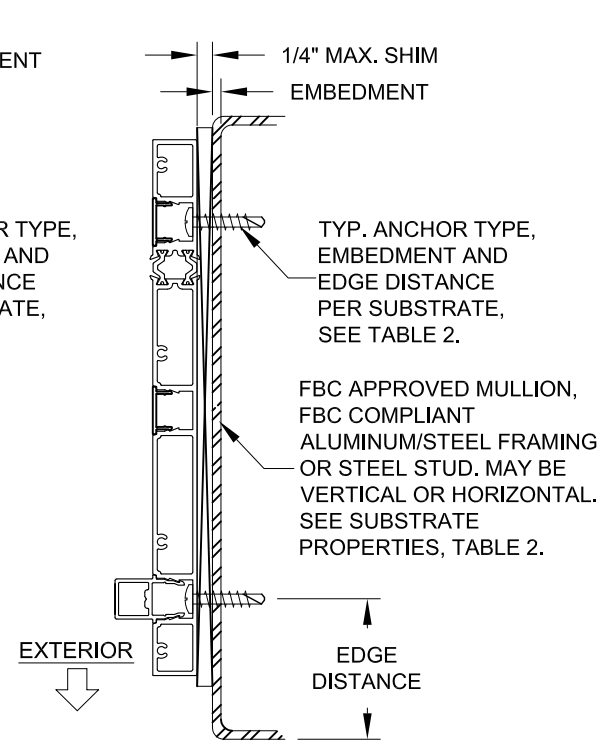
3-TRACK HEAD SHOWN.
FOR 2-TRACK HEAD,
ANCHOR THROUGH THE
OUTER TRACKS.



INSTALLATION OPTION 1
ANCHORED THROUGH FRAME INTO 2X
WOOD FRAME OR BUCKSTRIP. SEE
NOTE 2, THIS SHEET.



INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.



INSTALLATION OPTION 4
ANCHORED THROUGH FRAME
INTO METAL.

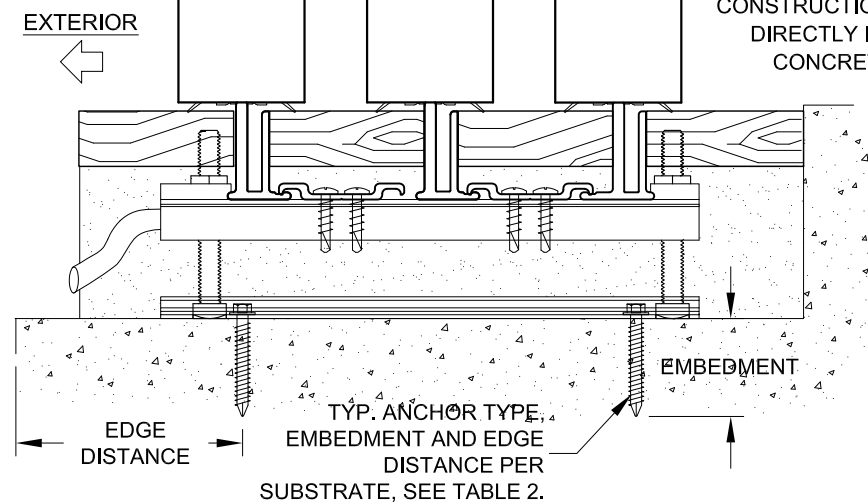
HORIZONTAL SECTION A-A

TABLE 3:

Anchor Pair Quantities Required																			
Nominal Panel Width	Panel DLO Width	80" Finished Height			96" Finished Height			108" Finished Height			120" Finished Height			132" Finished Height			144" Finished Height		
		Head and Sill		@ Jamb	Head and Sill		@ Jamb	Head and Sill		@ Jamb	Head and Sill		@ Jamb	Head and Sill		@ Jamb	Head and Sill		@ Jamb
		@ Mid- panel	Cluster @ Stile		@ Mid- panel	Cluster @ Stile		@ Mid- panel	Cluster @ Stile		@ Mid- panel	Cluster @ Stile		@ Mid- panel	Cluster @ Stile		@ Mid- panel	Cluster @ Stile	
24"	17.67"	0	2	6	0	2	7	0	2	7	0	2	8	0	2	9	0	2	9
36"	29.67"	1	2	6	1	2	7	1	2	7	1	3	8	1	3	9	1	3	9
48"	41.67"	1	2	6	1	3	7	1	3	7	1	3	8	1	3	9	1	3	9
54"	47.67"	2	2	6	2	3	7	2	3	7	2	3	8	2	3	9	2	3	9
60"	53.67"	2	2	6	2	3	7	2	3	7	2	3	8	2	3	9	2	3	9
66"	59.67"	2	2	6	2	3	7	2	3	7	2	3	8	2	3	9	2	3	9
72"	65.67"	2	2	6	2	3	7	2	3	7	2	3	8	2	3	9	2	3	9

NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. 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. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) 3-TRACK SHOWN, 2-TRACK SIMILAR, SEE ANCHOR O.C. ON SHEET 6. ANCHORS SHOWN IN DETAILS REPRESENT A PAIR OF ANCHORS.



**INSTALLATION
OPTION 2**
ANCHORED THROUGH
PRE-ASSEMBLED "NEW
CONSTRUCTION" SILL
DIRECTLY INTO
CONCRETE

VERTICAL SECTION B-B

Revision:
REV B, JR 7/30/2019
SHEET 2: POCKET DIR.
SHEET 4: BEADING
SHEET 5: STD. CONFIGS.
SHEET 6: NEW SHEET

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WINDOOR [®] INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM LIFT AND SLIDE DOOR (NI)	3 OF 7	INSTALLATION & ANCHOR QTY.	LS9000T-NI Sheet

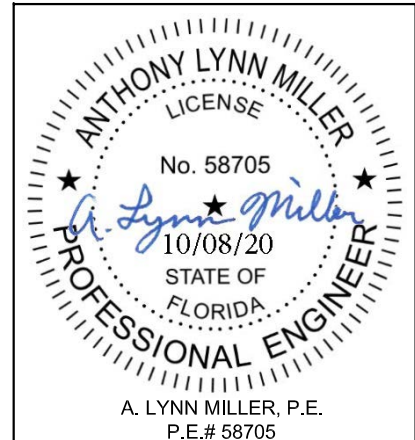
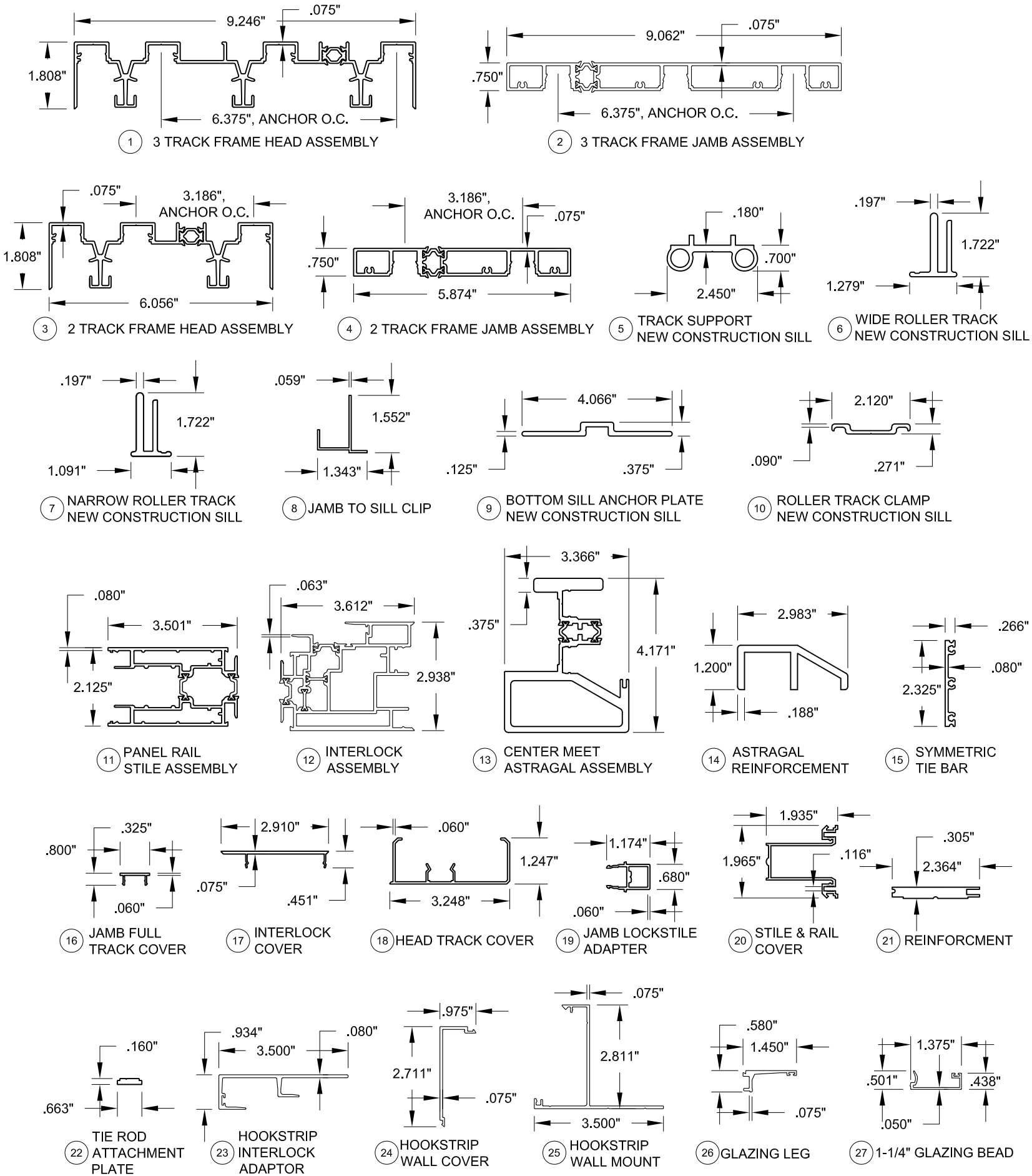
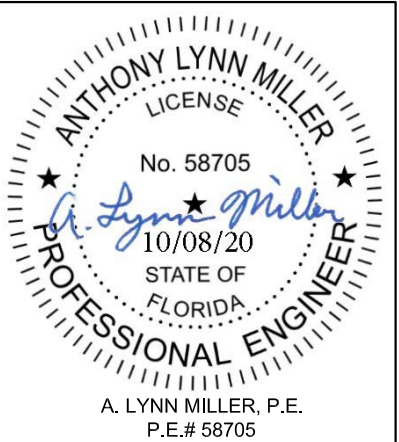


TABLE 5:

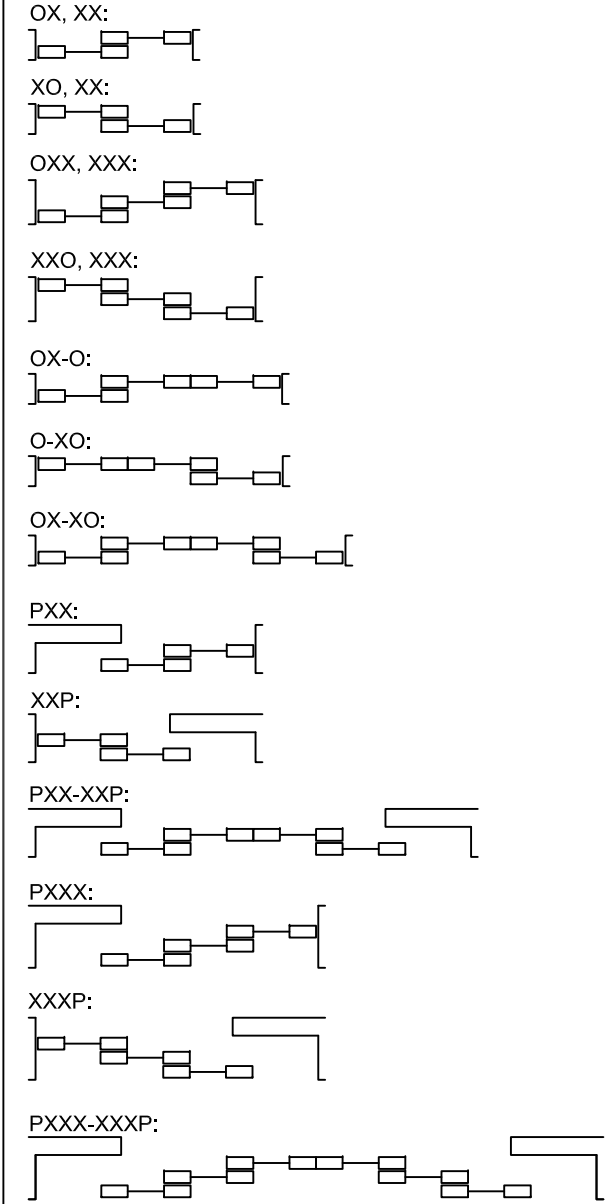
BILL OF MATERIAL			
NO.	PART NO.	DESCRIPTION	MATERIAL
1	25050	3 TRACK FRAME HEAD	6063-T6
2	25053	3 TRACK FRAME JAMB	6063-T6
3	25049	2 TRACK FRAME HEAD	6063-T6
4	25052	2 TRACK FRAME JAMB	6063-T6
5	25045	TRACK SUPPORT NEW CONSTRUCTION SILL	6063-T6
6	25039	WIDE ROLLER TRACK NEW CONSTRUCTION SILL	6063-T6
7	25038	NARROW ROLLER TRACK NEW CONSTRUCTION SILL	6063-T6
8	25042	JAMB TO SILL CLIP	6063-T6
9	25037	BOTTOM SILL ANCHOR PLATE NEW CONSTRUCTION SILL	6063-T6
10	25040	ROLLER TRACK CLAMP NEW CONSTRUCTION SILL	6063-T6
11	25047	PANEL RAIL - STILE ASSEMBLY	6063-T6
12	25048	INTERLOCK ASSEMBLY	6063-T6
13	25051	CENTER MEET ASTRAGAL ASSEMBLY	6063-T6
14	25043	ASTRAGAL REINFORCEMENT	6063-T6
15	25036	SYMMETRIC TIE BAR	6063-T6
16	25029	JAMB FULL TRACK COVER	6063-T6
17	25031	INTERLOCK COVER	6063-T6
18	25027	HEAD TRACK COVER (FULL TRACK)	6063-T6
19	25046	JAMB LOCKSTILE ADAPTER	6063-T6
20	25054	STILE & RAIL COVER	6063-T6
21	25044	REINFORCEMENT	6063-T6
22	25035	TIE ROD ATTACHMENT PLATE	6063-T6
23	25028	HOOKSTRIP INTERLOCK ADAPTOR	6063-T6
24	25055	HOOKSTRIP WALL COVER	6063-T6
25	25056	HOOKSTRIP WALL MOUNT	6063-T6
26	25032	GLAZING LEG	6063-T6
27	25034	1-1/4" GLAZING BEAD	6063-T6
28	25061	ASTRAGAL SCREW COVER	RGD. VINYL
29	GS-VN-06A	GLAZING VINYL #6	VINYL
30	VARIES	GEAR ASSEMBLY, 9000-LSD, STANDARD, INTERLOCK	VARIOUS
31	VARIES	GEAR ASSEMBLY, 9000-LSD, 12' EXTENSION, INTERLOCK	VARIOUS
32	VARIES	ROLLER ASSEMBLY	VARIOUS
33	122023	PILE PAD, .24" X .81" X .70"	
34		INTERLOCK BLADE	
35	VARIES	LOCK/KEEPER ASSEMBLY	VARIOUS
36	VARIES	HANDLE ASSEMBLY, 9000-LSD, STANDARD, INTERLOCK	VARIOUS
45	15027	PLUG, NEW CONSTRUCTION SILL END PLUG	NYLON
46	15009	#3/8-16 FULL THREAD SQUARE/HEX MS	S. STEEL
47	15012	#3/8-16 LEVELING NUT, FOR NC ADJUSTMENT PLATE	S. STEEL
48	15026	PLUG, RETROFIT CONSTRUCTION SILL END PLUG	NYLON
49	15028/9	PLUG, HEAD END PLUG, LEFT/RIGHT	NYLON
51	131091	#10 X 1/2" PH PANHEAD SMS, NEW CONSTRUCTION SILL	S. STEEL
52	131118	#8 X 1 1/8" PH PANHEAD SMS (FRAME ASSEMBLY SCREW)	S. STEEL
53	131014	#8 X 1" SQ PANHEAD SMS (PANEL ASSEMBLY SCREW)	S. STEEL
54	25063	TOP RAIL WEATHERSTRIP	VINYL
55	15017	BOTTOM RAIL WEATHERSTRIP	VINYL
56	25064	INTERLOCK FOLD BULB	VINYL
57	15001	INTERLOCK FINSEAL, .187" X .530"	
58	121001	GLASS SETTING BLOCK	NEOPRENE
59		BACKBEDDING: SIKA 552, DOW 791/983 OR RGS 7700	SILICONE
60	15015	1/2" TUBING	RUBBER
61	15053	TUBING CONNECTION	RUBBER
62	K7000-0002	1/2" END PLUG	NYLON
70		KOMMERLING KODISPACE 4SG TPS IG SPACER	
71		QUANEX IG SUPER SPACER	
72		METAL IG SPACER	



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BOM & EXTRUSIONS		4 OF 7		9000NI-FPA-1	
LS9000T-NI		Sheet		Rev.	
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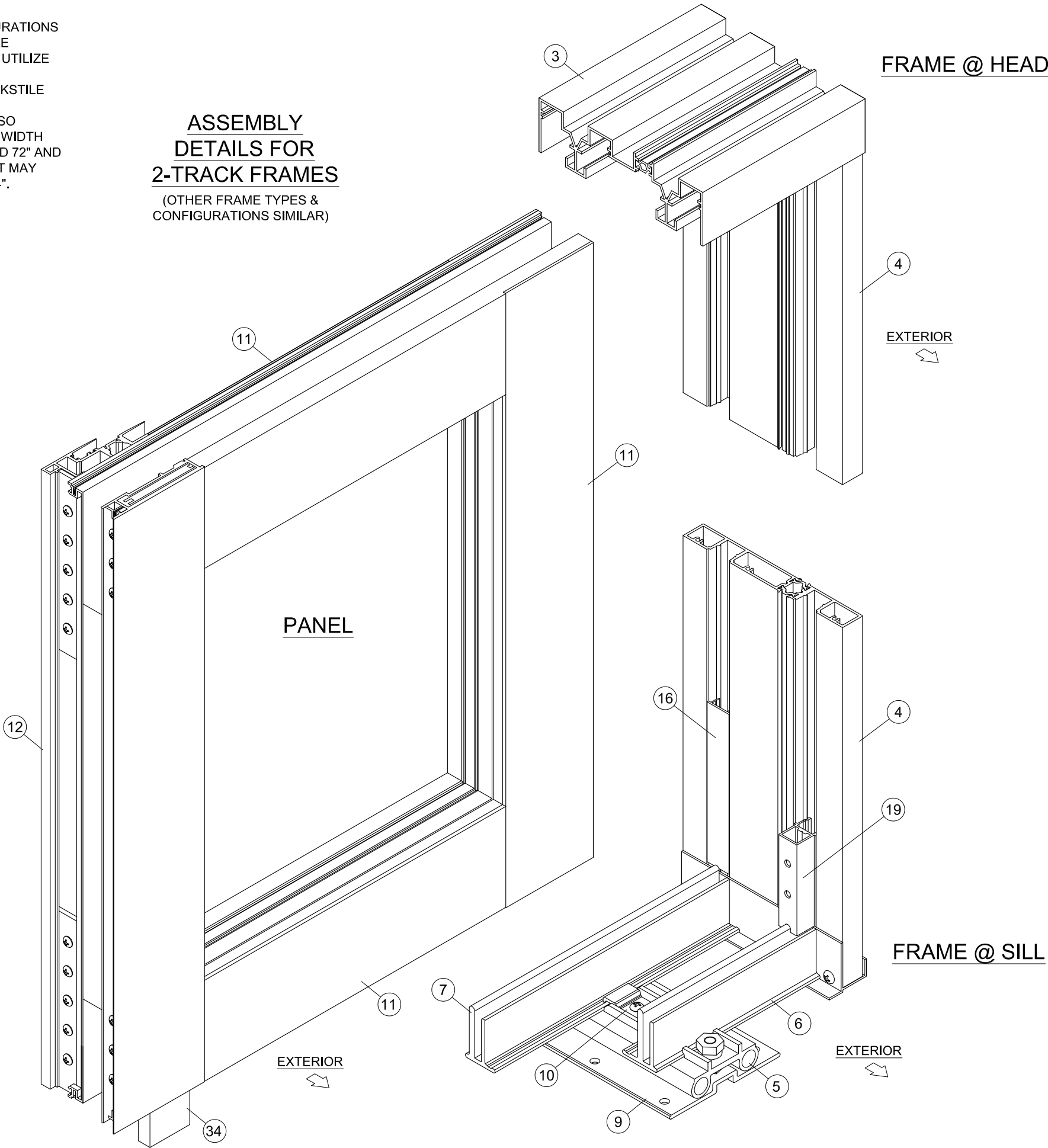


EXAMPLES OF COMMON CONFIGURATIONS:



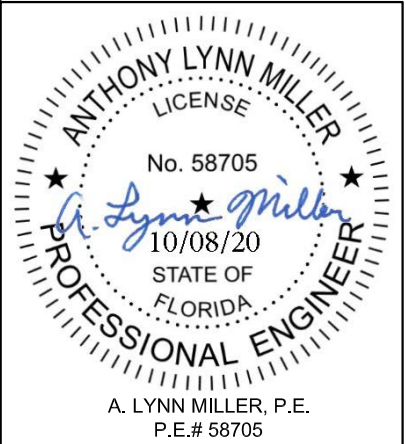
OTHER CONFIGURATIONS ARE ACCEPTABLE PROVIDED THEY UTILIZE TESTED PANEL INTERLOCK, LOCKSTILE AND ASTRAGAL CONDITIONS. ALSO NOMINAL PANEL WIDTH MAY NOT EXCEED 72" AND FINISHED HEIGHT MAY NOT EXCEED 144".

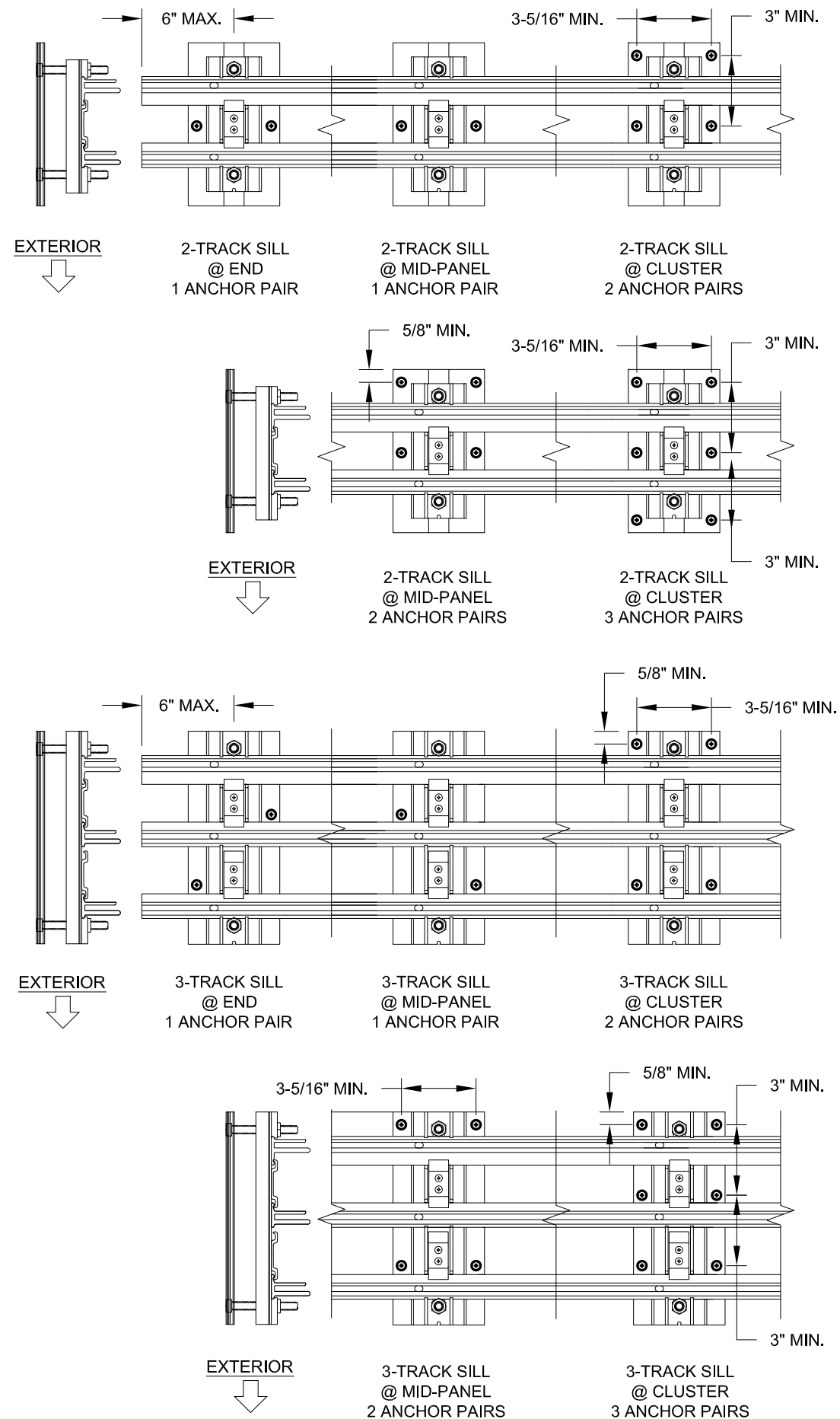
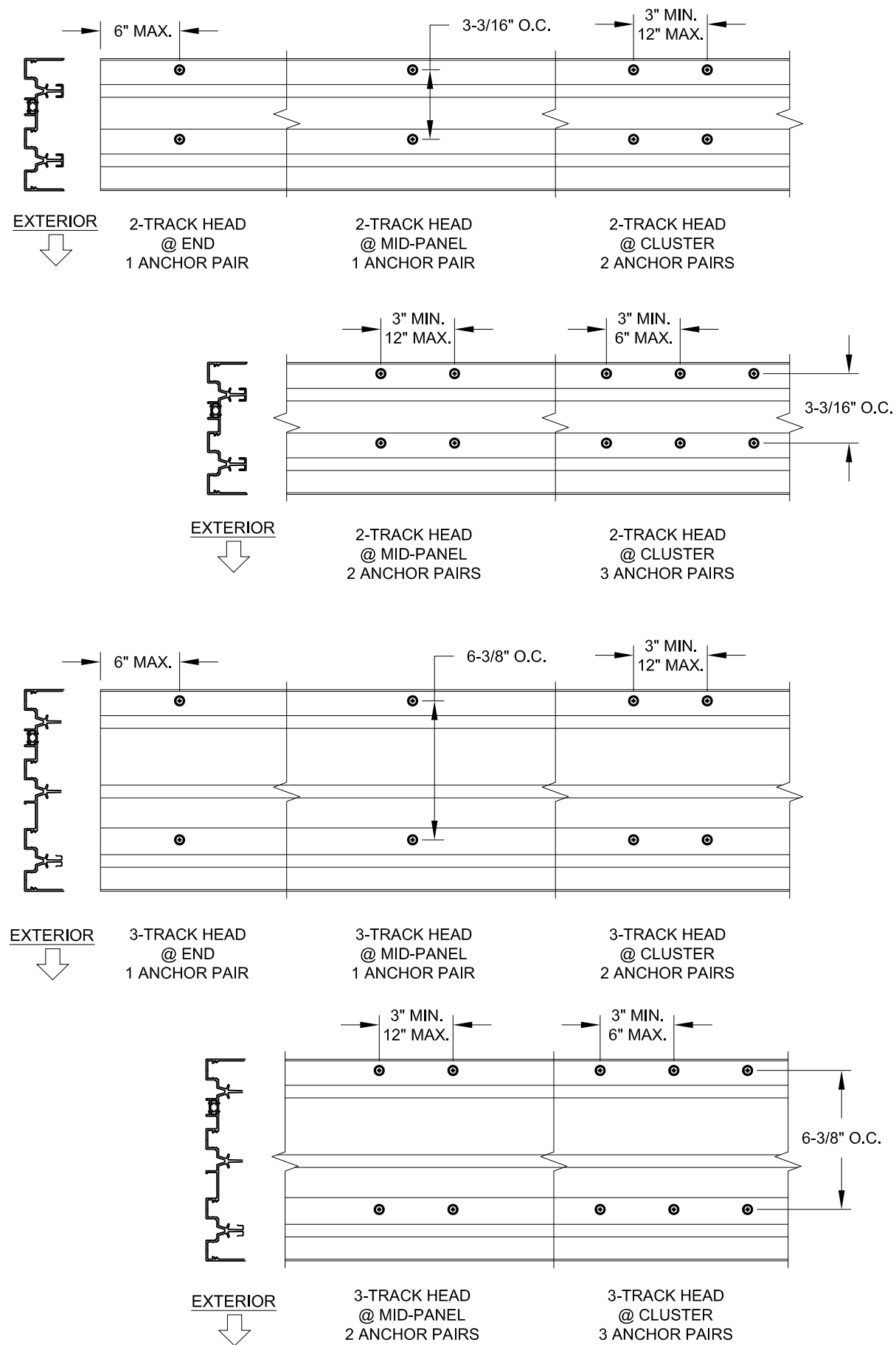
ASSEMBLY DETAILS FOR 2-TRACK FRAMES (OTHER FRAME TYPES & CONFIGURATIONS SIMILAR)



NOTES:
1) ALL FRAME CORNERS TO USE SEALANT.
2) FOR CLARITY, NOT ALL PARTS/OPTIONS ARE SHOWN ON DRAWING.

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Title		ALUMINUM LIFT AND SLIDE DOOR (NI)		Date		07/30/19	
Desc.		CORNER ASSEMBLY DETAILS		Drawn By		JENS ROSOWSKI	
Series		LS9000T-NI		DWG No.		9000NI-FPA-1	
		5 OF 7		Rev.		A	

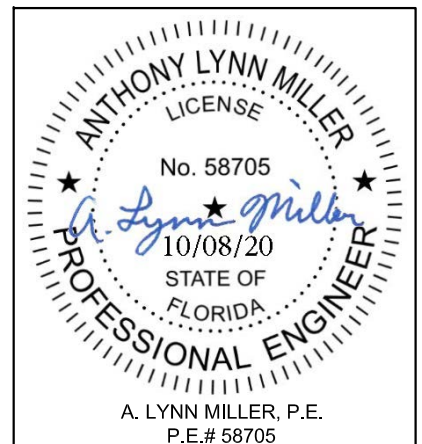




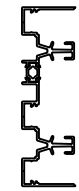
NOTES:
 1) SILL PLATE MAY BE FABRICATED WITH ADDITIONAL ANCHOR HOLES WHICH ARE NOT REQUIRED FOR INSTALLATION.
 2) ANCHOR PATTERNS MAY VARY FROM THOSE SHOWN. THE SAME QUANTITY, MINIMUM O.C. SPACING AND EDGE DISTANCE MUST BE USED.

Revision:

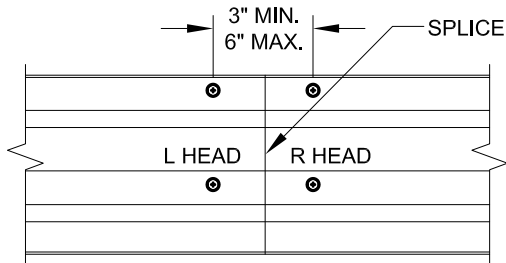
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ALUMINUM LIFT AND SLIDE DOOR (NI)	Date	07/30/19		JENS ROSOWSKI		9000NI-FPA-1		Rev.	A
FRAME ANCHOR LOCATIONS	Drawn			JENS ROSOWSKI		9000NI-FPA-1			
LS9000T-NI	Sheet	6 OF 7		DWG	No.	9000NI-FPA-1		A	
Series	Desc.	Frame Anchor Locations		Drawn	By	JENS ROSOWSKI		Rev.	



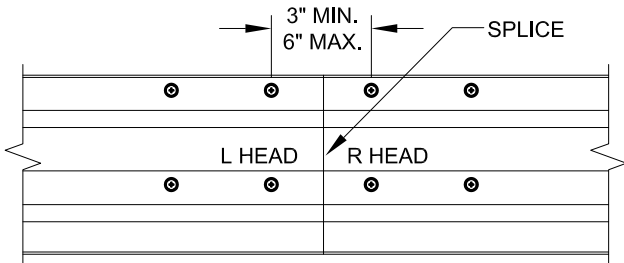
HEAD AND SILL ANCHORAGE AT SPLICE LOCATIONS



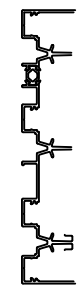
EXTERIOR



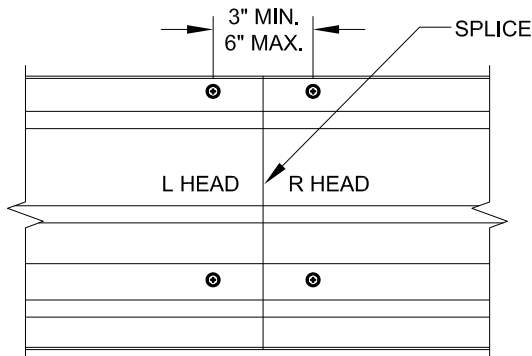
2-TRACK HEAD SPLICE @ CLUSTER
FOR 2 ANCHOR PAIRS PER TABLE 3



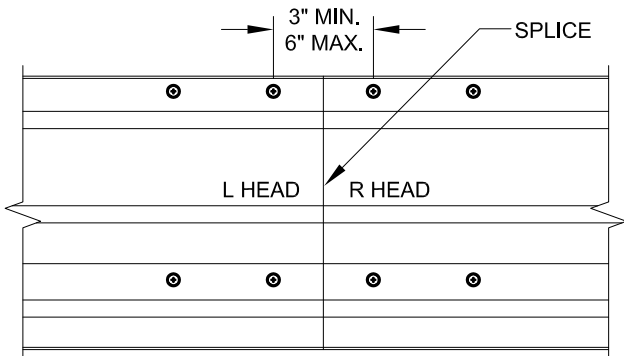
2-TRACK HEAD SPLICE @ CLUSTER
FOR 3 ANCHOR PAIRS PER TABLE 3
(ROUNDUP TO 4 ANCHOR PAIRS AS SHOWN)



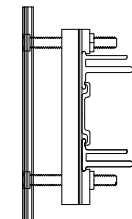
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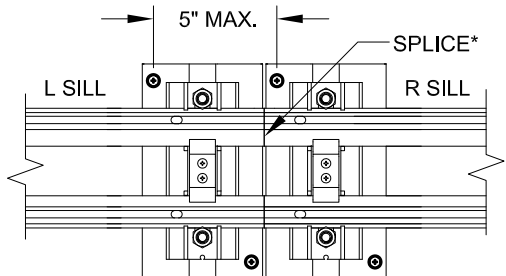
3-TRACK HEAD SPLICE @ CLUSTER
FOR 2 ANCHOR PAIRS PER TABLE 3



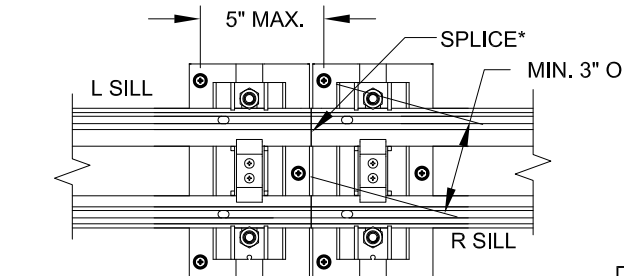
3-TRACK HEAD SPLICE @ CLUSTER
FOR 3 ANCHOR PAIRS PER TABLE 3
(ROUNDUP TO 4 ANCHOR PAIRS AS SHOWN)



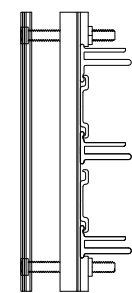
EXTERIOR



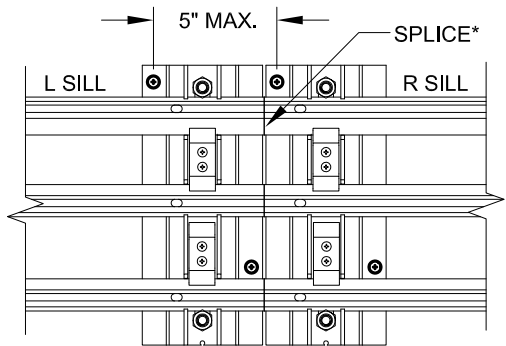
2-TRACK SILL SPLICE @ CLUSTER
2 SILL ANCHOR PLATES REQUIRED
FOR 2 ANCHORS PAIRS (4 ANCHORS
TOTAL) REQUIRED PER TABLE 3



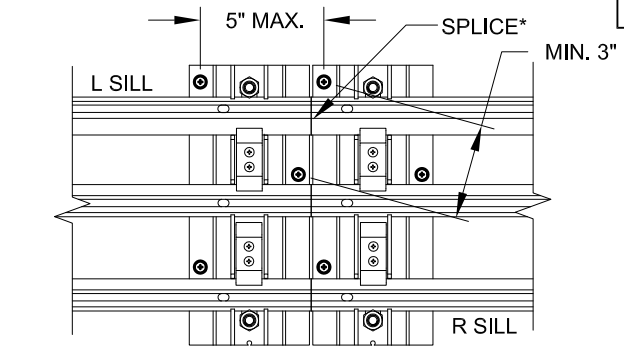
2-TRACK SILL SPLICE @ CLUSTER
2 SILL ANCHOR PLATES REQUIRED
FOR 3 ANCHORS PAIRS (6 ANCHORS
TOTAL) REQUIRED PER TABLE 3



EXTERIOR



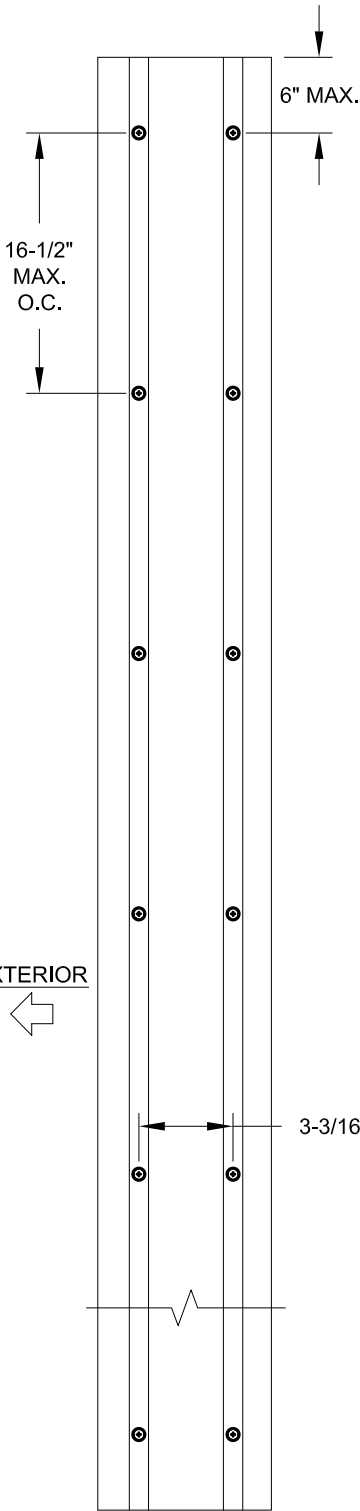
3-TRACK SILL SPLICE @ CLUSTER
2 SILL ANCHOR PLATES REQUIRED
FOR 2 ANCHORS PAIRS (4 ANCHORS
TOTAL) REQUIRED PER TABLE 3



3-TRACK SILL SPLICE @ CLUSTER
2 SILL ANCHOR PLATES REQUIRED
FOR 3 ANCHORS PAIRS (6 ANCHORS
TOTAL) REQUIRED PER TABLE 3

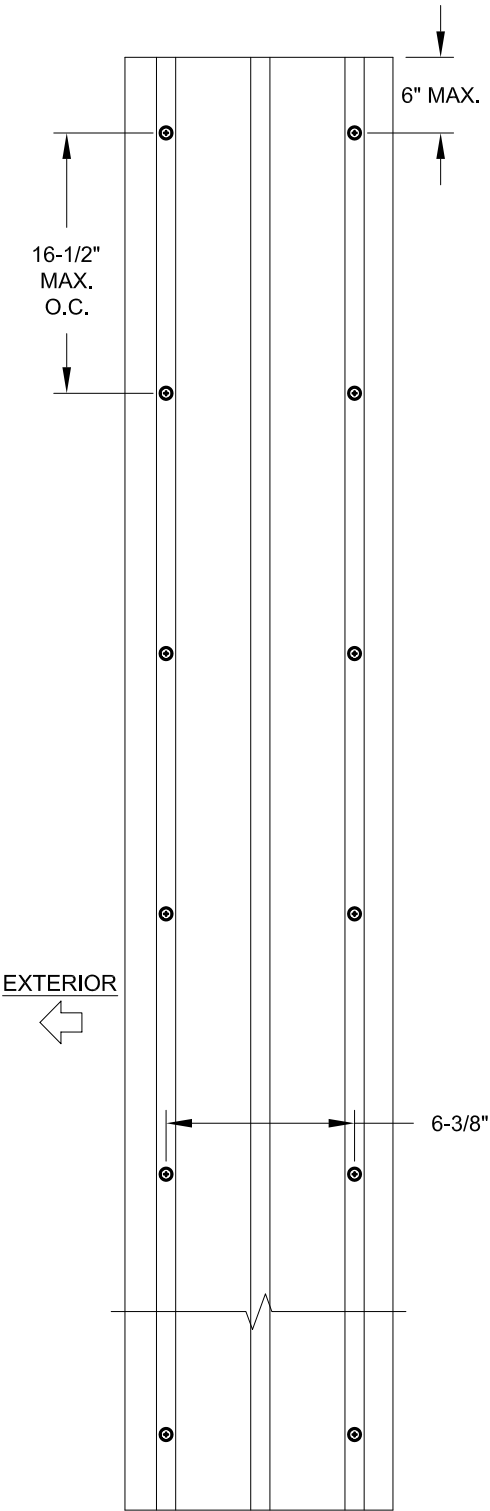
* ENTIRE SPLICE
PERIMETER
MUST BE SEALED,
BY OTHERS, TO
PREVENT WATER
INFILTRATION.

EXTERIOR



2-TRACK JAMB

EXTERIOR



3-TRACK JAMB

- NOTES:
- 1) SILL PLATE MAY BE FABRICATED WITH ADDITIONAL ANCHOR HOLES WHICH ARE NOT REQUIRED FOR INSTALLATION.
 - 2) ANCHOR PATTERNS MAY VARY FROM THOSE SHOWN. THE SAME QUANTITY, MINIMUM O.C. SPACING AND EDGE DISTANCE MUST BE USED.
 - 3) HORIZONTAL SPLICES TO ONLY BE LOCATED WHERE TWO PANELS MEET (I.E. ANCHOR CLUSTER LOCATIONS).

Revision:
ADDED SHEET 7, SPLICE
INFO. - JR - 10/07/20

WINDOOR® INCORPORATED		WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2020 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
Series	LS9000T-NI	Sheet	7 OF 7	DWG No.	9000NI-FPA-1	Rev.	A
Dec.	FRAME ANCHOR LOCATIONS			Drawn By	JENS ROSOWSKI		
Title	ALUMINUM LIFT AND SLIDE DOOR (NI)			Date	07/30/19		

