ALLOWABLE DESIGN PRESSURE
(all door conditions) +50 psf, - 60 psf
WOOD: MAHOGANY
or of specific gravity of 0.59 or higher

GENERAL NOTES:

1- THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.

2- THIS PRODUCT IS LARGE MISSILE IMPACT RESISTANT AND HAS BEEN TESTED IN ACCORDANCE WITH THE HIGH VELOCITY HURRICANE ZONE PROTOCOLS TAS201, 202 AND 203. SHUTTERS ARE NOT REQUIRED.

3- WOOD BUCKS (BY OTHERS) AND OPENINGS MUST BE DESIGNED BY THE PROFESSIONAL OF RECORD TO PROPERLY TRANSFER WIND LOADS TO THE MAIN STRUCTURE.

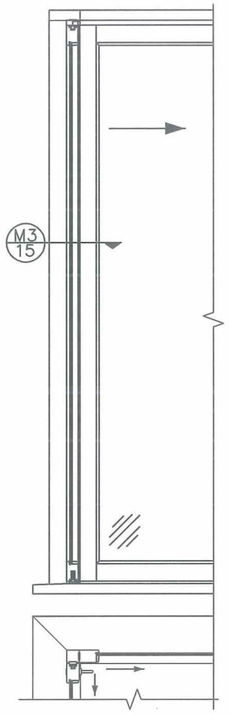
4- IN ORDER TO VERIFY THAT ANCHORS FOR THIS PRODUCT WERE NOT OVERSTRESSED AS TESTED, A 33% ALLOWABLE STRESS INCREASE **WAS NOT** USED IN THEIR ANALYSIS. HOWEVER, A LOAD DURATION FACTOR OF Cd = 1.6 WAS USED TO VERIFY THEIR SPACING IN WOOD SUBSTRATES.

5- ALL WOOD NOT SEPARATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE AND MASONRY SHALL BE TREATED IN AN APPROVED PRESERVATIVE OR SHALL BE AN APPROVED DURABLE SPECIES PER FBC SECTION 2326.

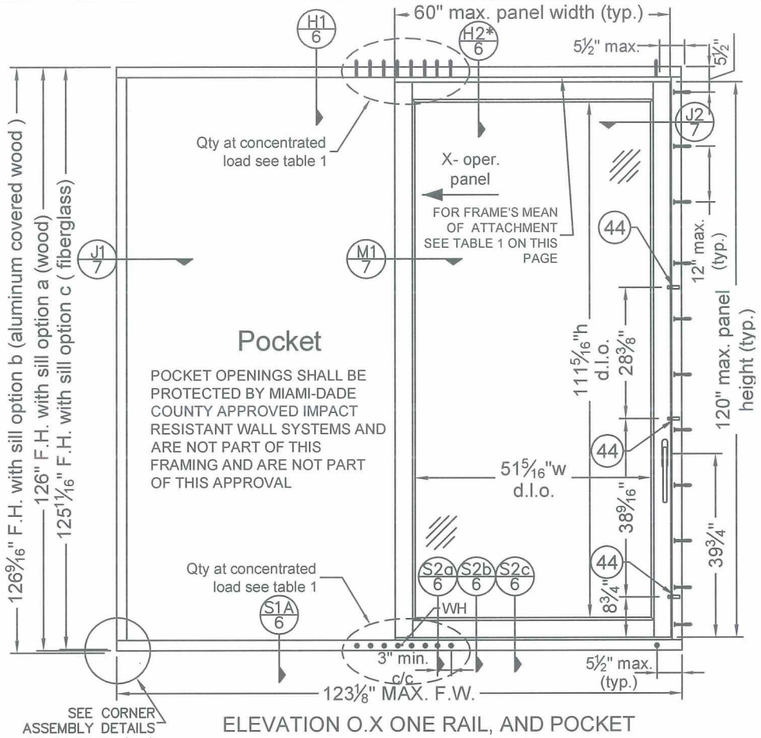
6- POCKET OPENINGS SHALL BE PROTECTED BY MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT WALL SYSTEMS AND ARE NOT PART OF THIS FRAMING AND ARE NOT PART OF THIS APPROVAL.

INSTALLATION NOTES:

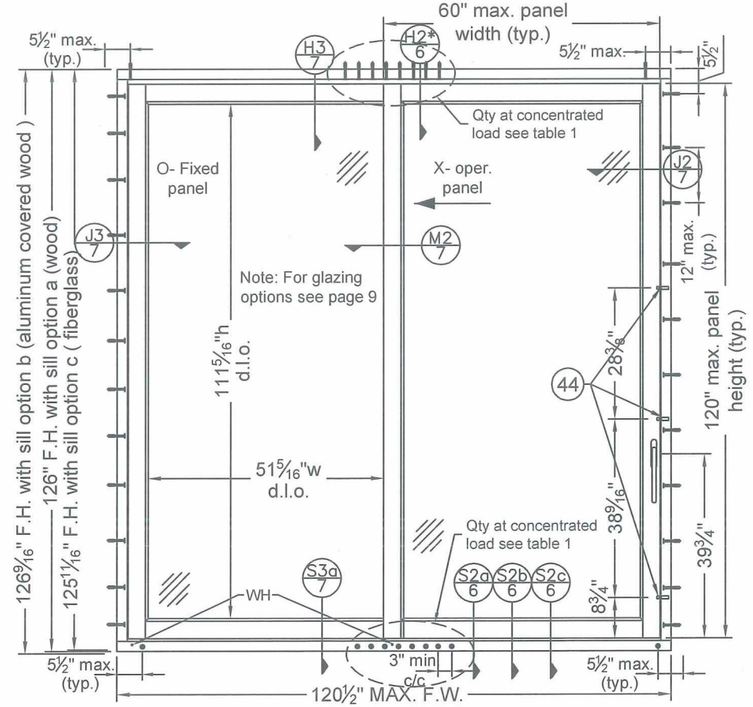
ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, SEE TABLE 1 FOR DETAILS.
THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
A) WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
B) CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
C) MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
D) STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS.



OPTIONAL 90° CORNER
VIEWED FROM THE INSIDE



ELEVATION O.X ONE RAIL, AND POCKET
VIEWED FROM THE INSIDE



WP: 5/16" Ø
Weep Hole

ELEVATION O.X ONE RAIL, AND FIXED PANEL
VIEWED FROM THE INSIDE

TABLE 1: ANCHOR SCHEDULE

					HEAD & SILL (3" O/C)	JAMB	
INSTALLATION TYPE	SUBSTRATE	ANCHOR TYPE	EMBEDMENT (IN.)	EDGE DISTANCE (IN.)	QTY AT CONCENTRATED LOADS	O.C. DISTANCE (IN.)	CORNER DISTANCE (IN.)
THROUGH FRAME	2x P.T. WOOD BUCK	#14 WOOD SCREW	1 1/2	1	8	12	5 1/2
THROUGH FRAME	CONCRETE/ MASONRY	1/4" ITW TAPCON OR 1/4 ELCO ULTRACON	1 3/4	2 1/2	8	8 1/2	5 1/2
THROUGH FRAME	STEEL STUD	1/4" SELF-TAPPING SCREW	FULL + 3 Threads	1/2	6	7 1/2	5 1/2
THROUGH FRAME	ALUMINUM TUBE	1/4" SELF-TAPPING SCREW	FULL + 3 Threads	1/2	6	9	5 1/2
THROUGH AL. CLIP	2x P.T. WOOD BUCK	#14 WOOD ANCHOR	1 1/2	1	7	12	5 1/2
THROUGH AL. CLIP	CONCRETE/ MASONRY	1/4" ITW TAPCON OR 1/4 ELCO ULTRACON	1 3/4	2 1/2	6	12	5 1/2
THROUGH AL. CLIP	STEEL STUD	1/4" SELF-TAPPING SCREW	FULL + 3 Threads	1/2	6	12	5 1/2
THROUGH AL. CLIP	ALUMINUM TUBE	1/4"SELF-TAPPING SCREW	FULL + 3 Threads	1/2	6	12	5 1/2

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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

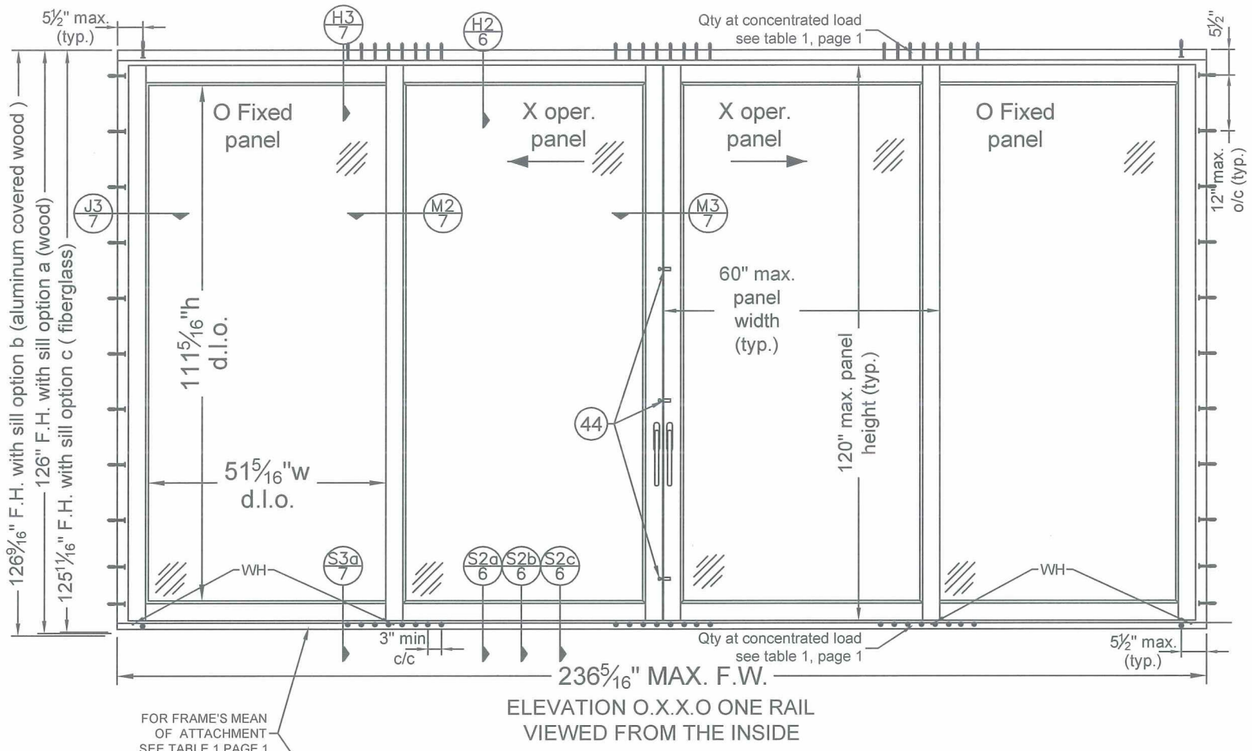
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Date drawn: 05/24/10	Date revised:
File:	Page: 1 /22

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FL PE# 62354
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(COA# 27194)
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WEST PALM BEACH, FL 33412

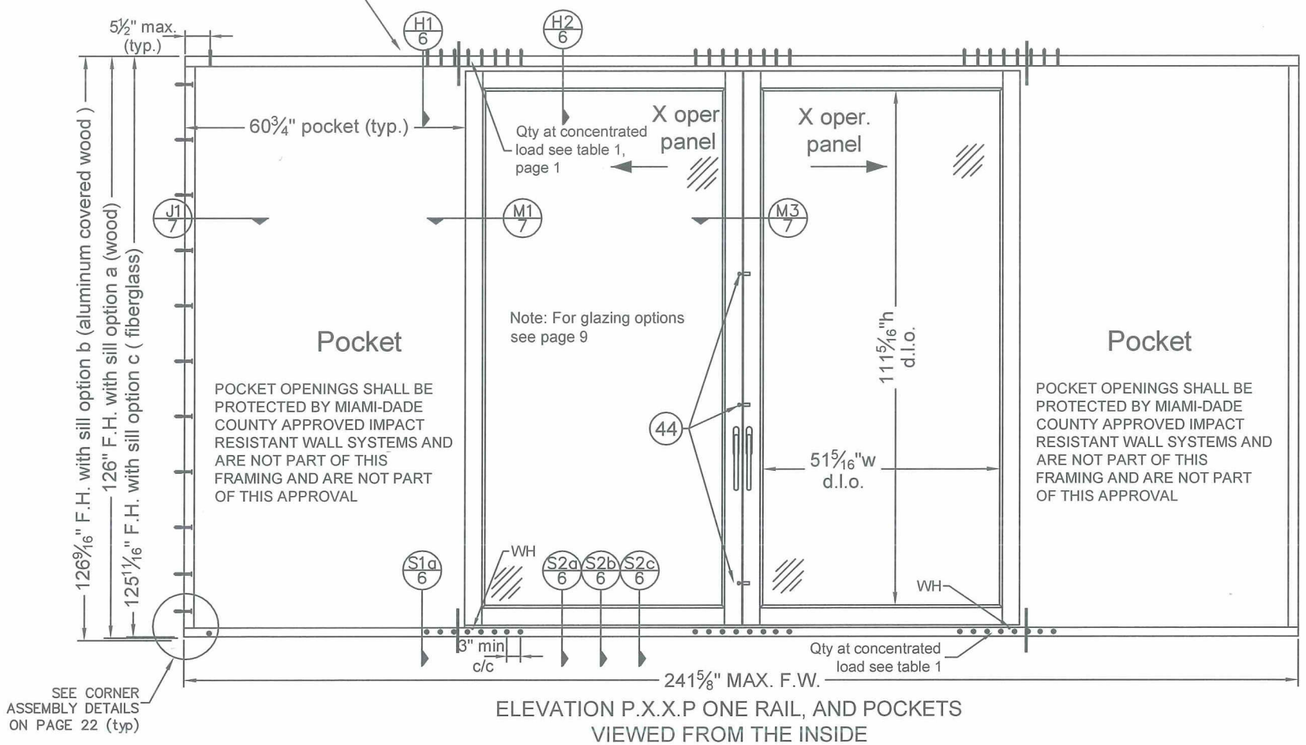
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ELEVATION O.X.X.O ONE RAIL
VIEWED FROM THE INSIDE

FOR FRAME'S MEAN OF ATTACHMENT SEE TABLE 1 PAGE 1



ELEVATION P.X.X.P ONE RAIL, AND POCKETS
VIEWED FROM THE INSIDE

SEE CORNER ASSEMBLY DETAILS ON PAGE 22 (typ)

WP: 5/16" Ø Weep Hole

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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

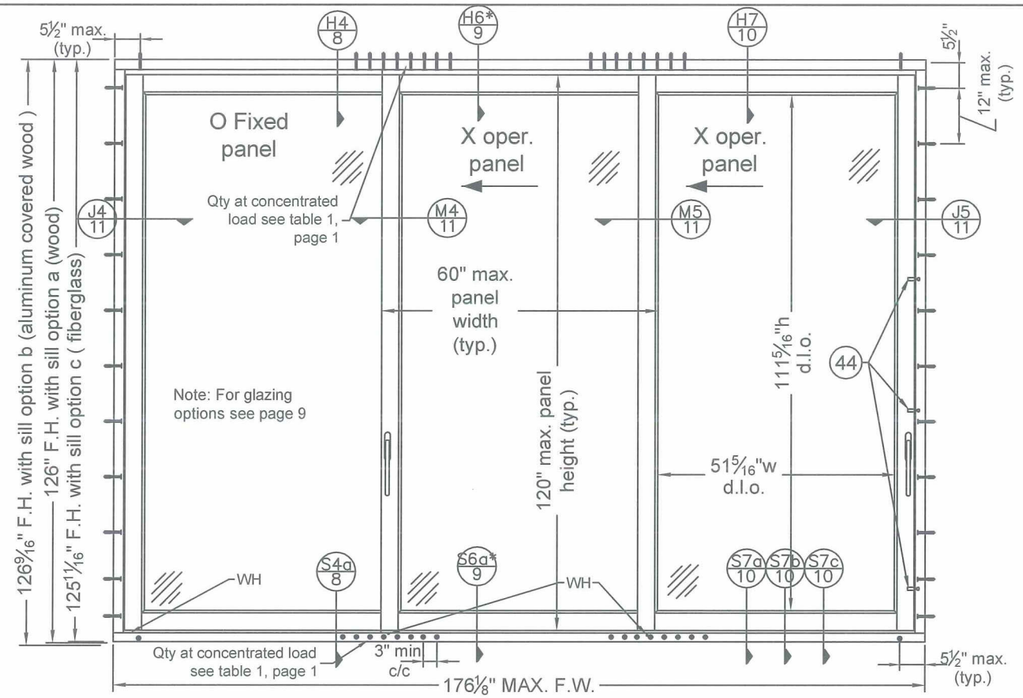
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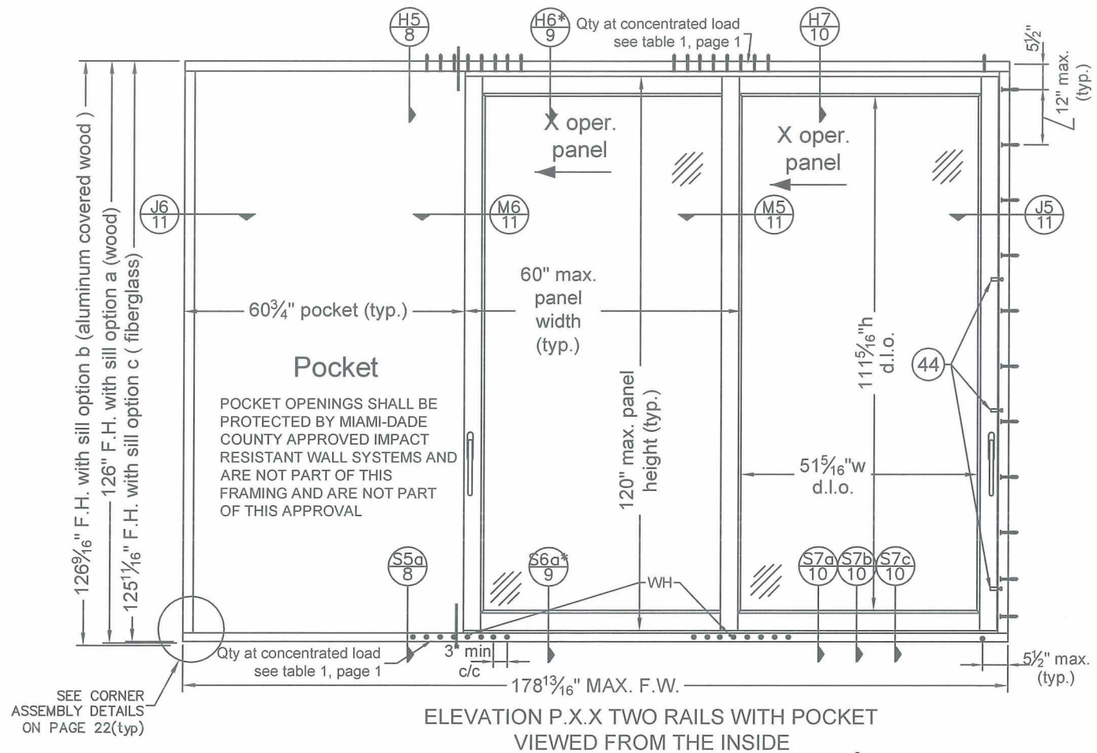
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ELEVATION O.X.X TWO RAILS,
VIEWED FROM THE INSIDE



ELEVATION P.X.X TWO RAILS WITH POCKET
VIEWED FROM THE INSIDE

WP: 5/16" Ø
Weep Hole

WINDOWS INC.

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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

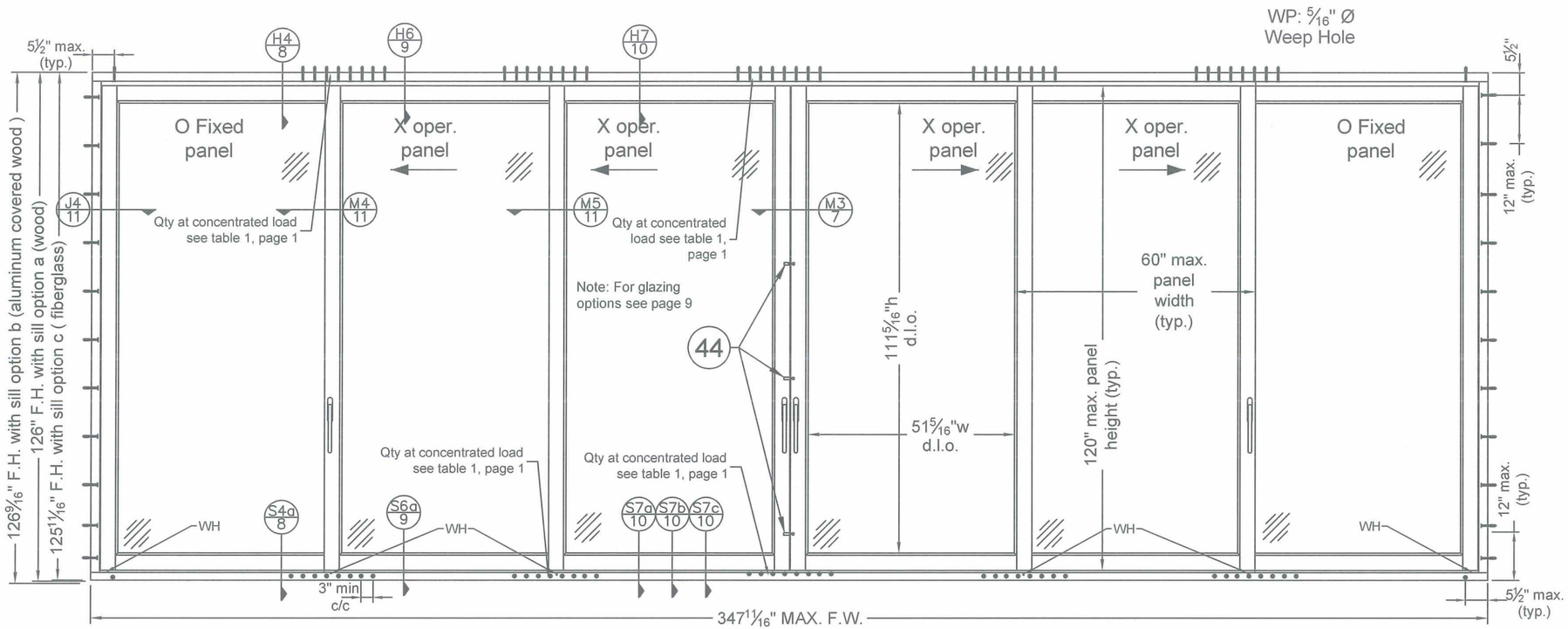
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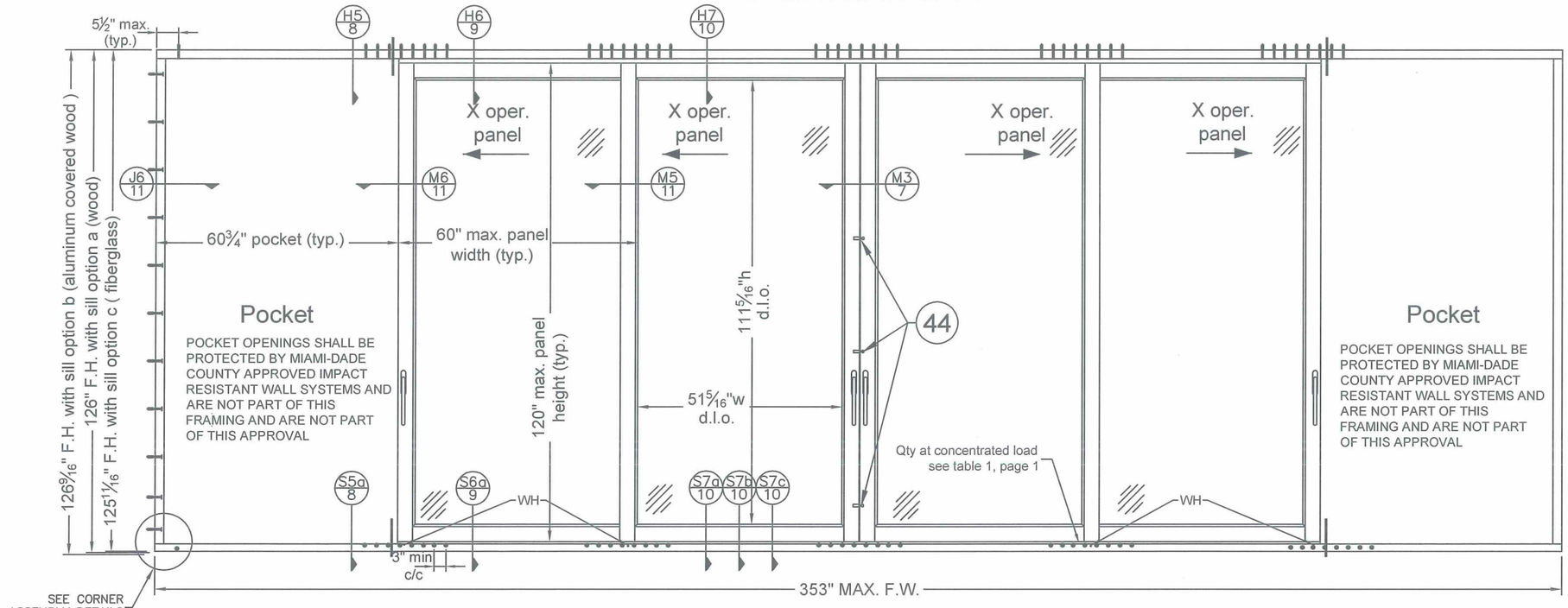
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ELEVATION O.X.X.X.X.O THREE RAILS,
VIEWED FROM THE INSIDE



SEE CORNER ASSEMBLY DETAILS ON PAGE 22 (typ)

ELEVATION P.X.X.X.X.P TWO RAILS WITH POCKET
VIEWED FROM THE INSIDE

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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

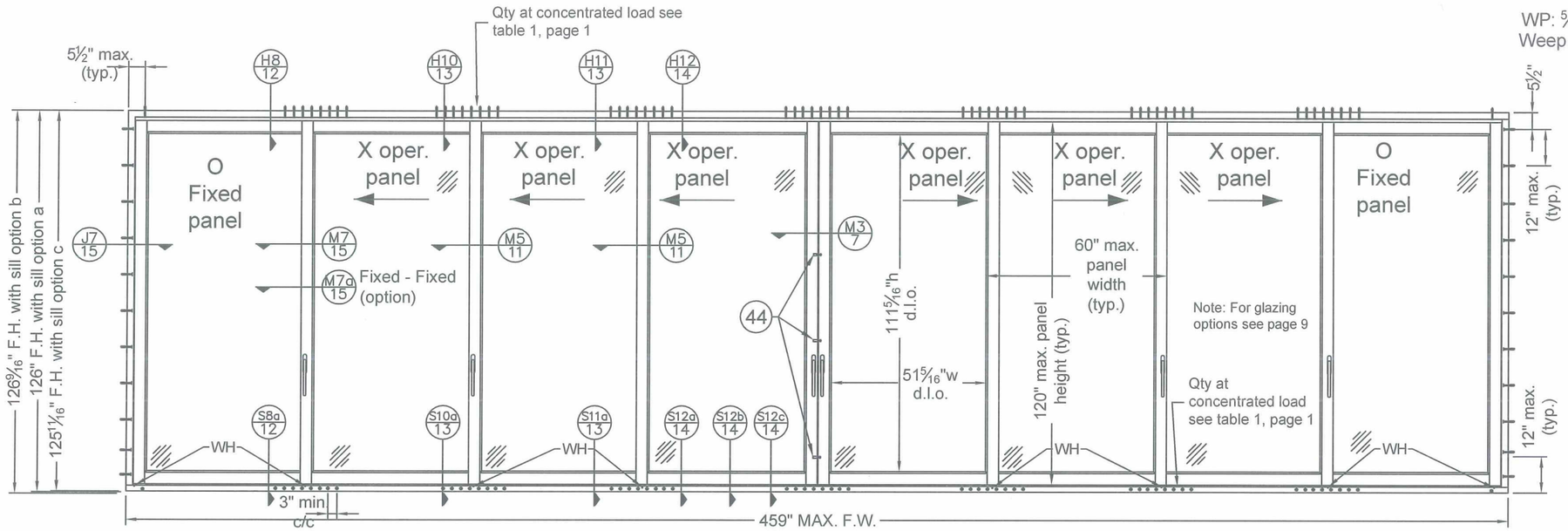
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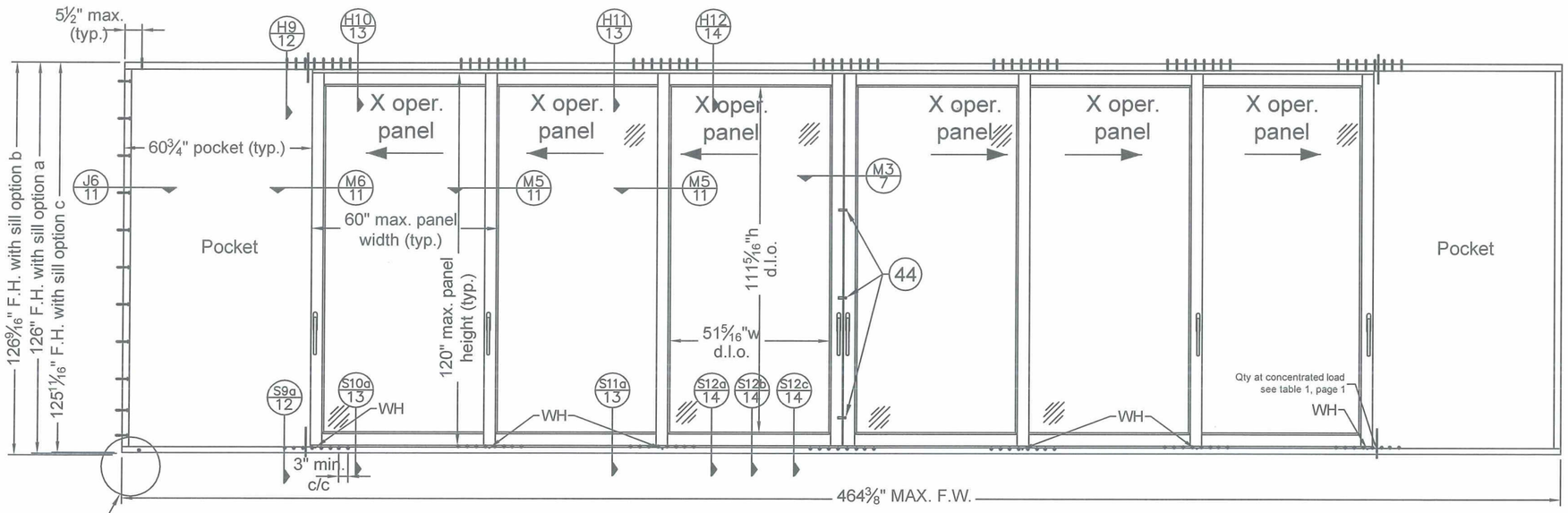
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ELEVATION O.X.X.X.X.X.X.O FOUR RAILS,
VIEWED FROM THE INSIDE

POCKET OPENINGS SHALL BE PROTECTED BY MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT WALL SYSTEMS AND ARE NOT PART OF THIS FRAMING AND ARE NOT PART OF THIS APPROVAL

Conditions shown are the majority of those used. Other conditions of fixed and operable panels apply providing they are within the scope of the details within this drawing.



ELEVATION P.X.X.X.X.X.X.P THREE RAILS WITH POCKET
VIEWED FROM THE INSIDE

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1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

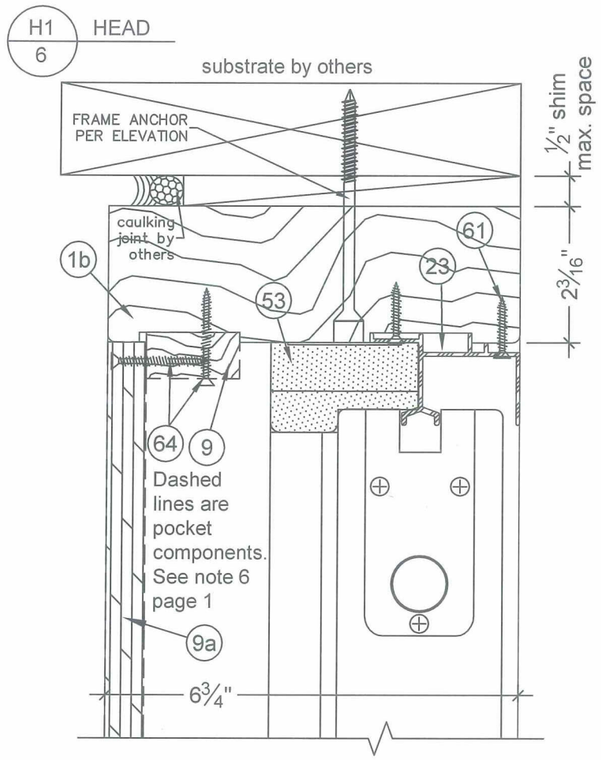
LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

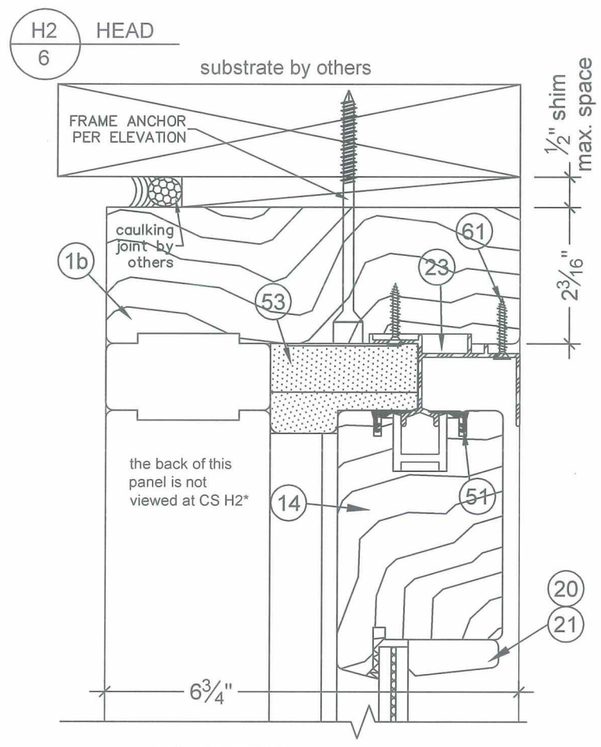
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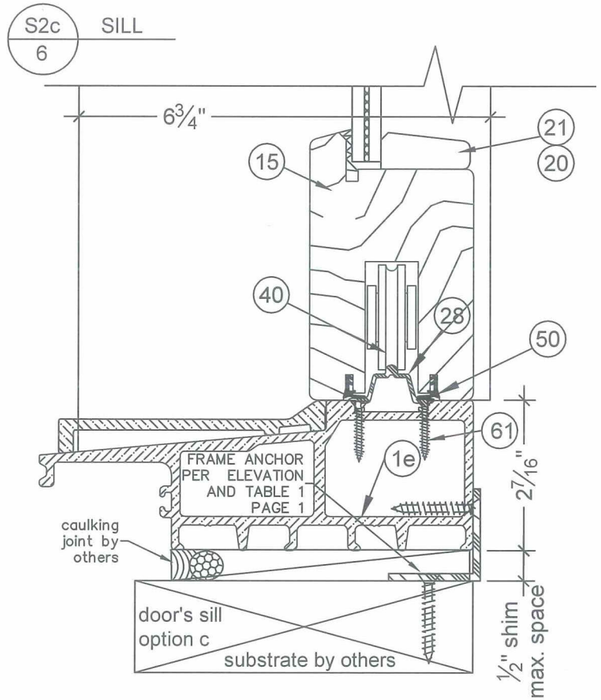
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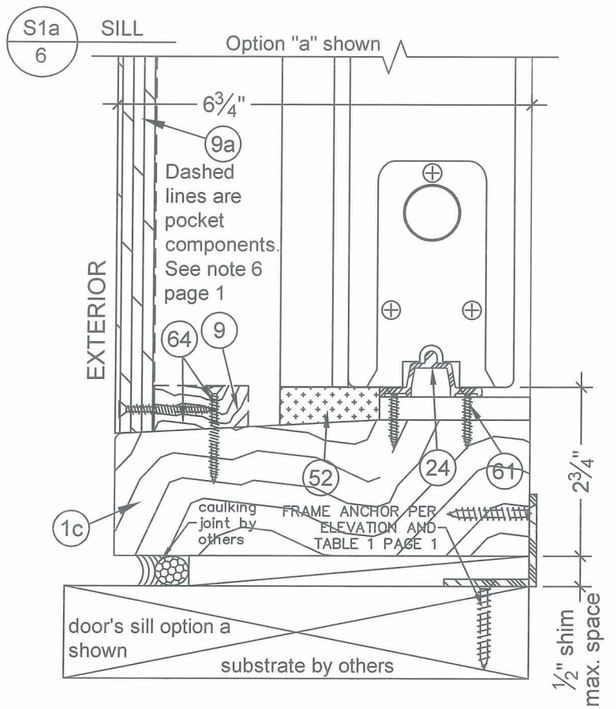
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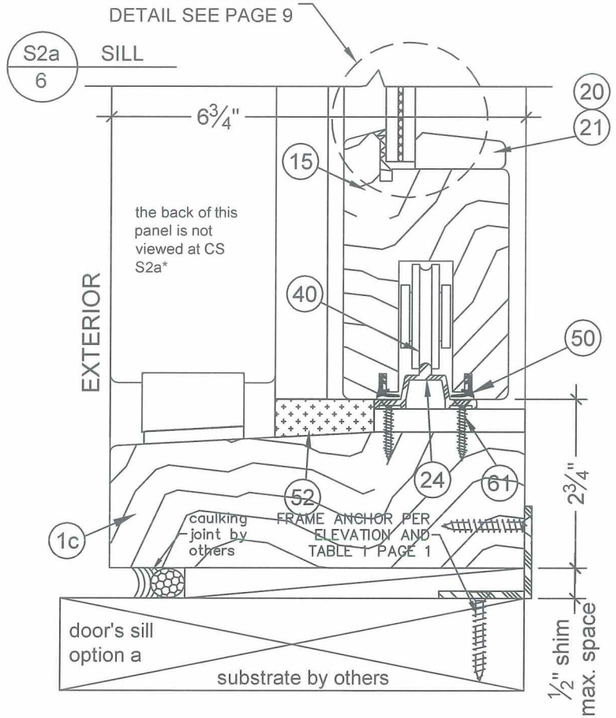
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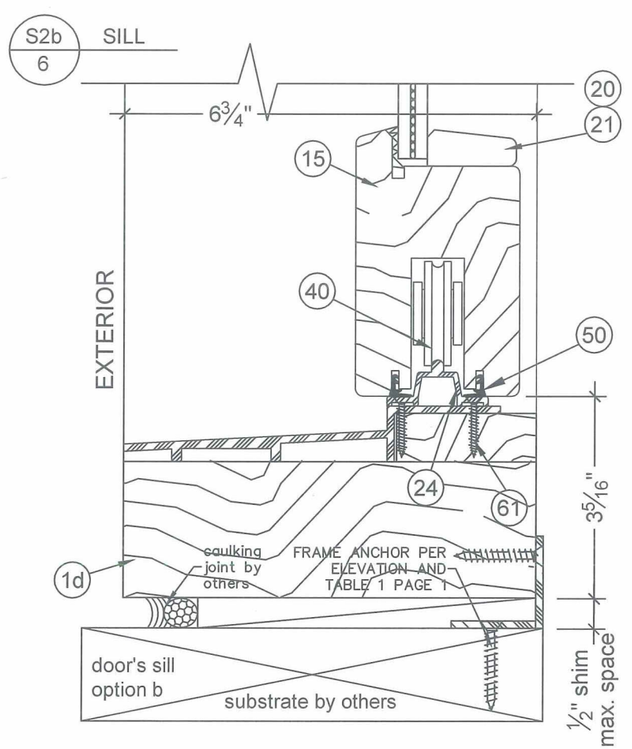












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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

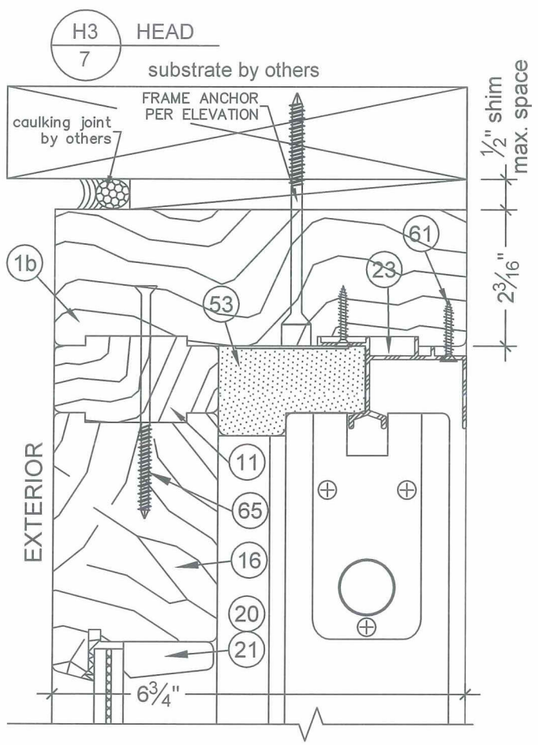
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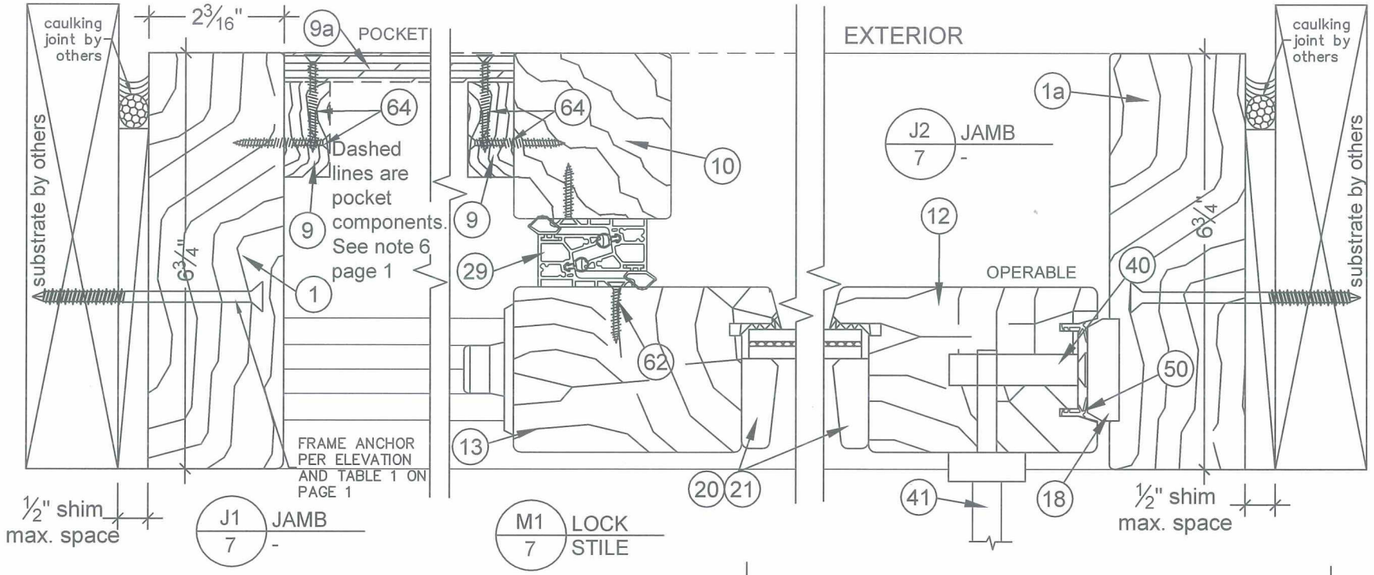
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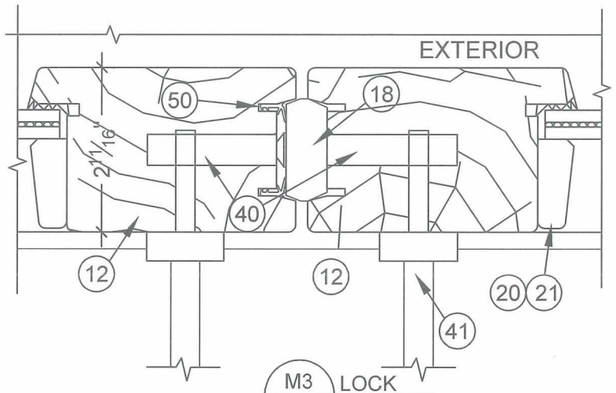
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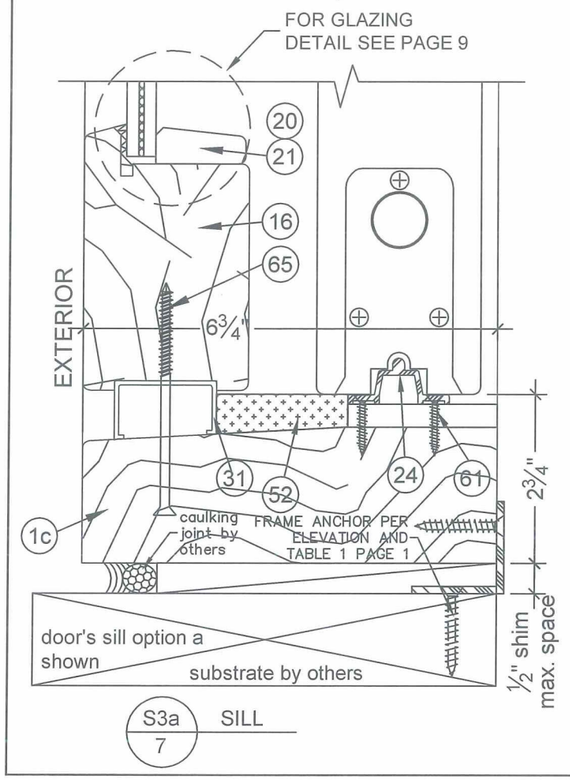
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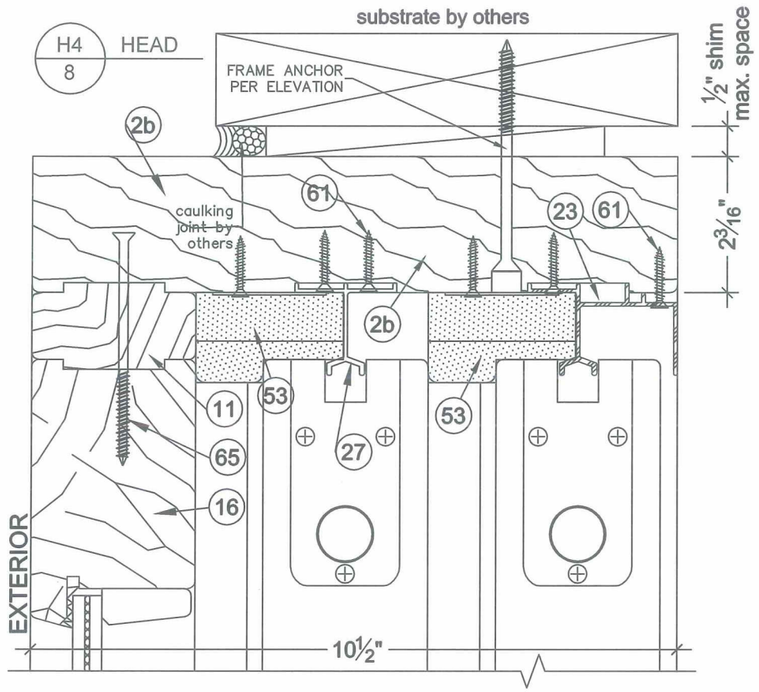
LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

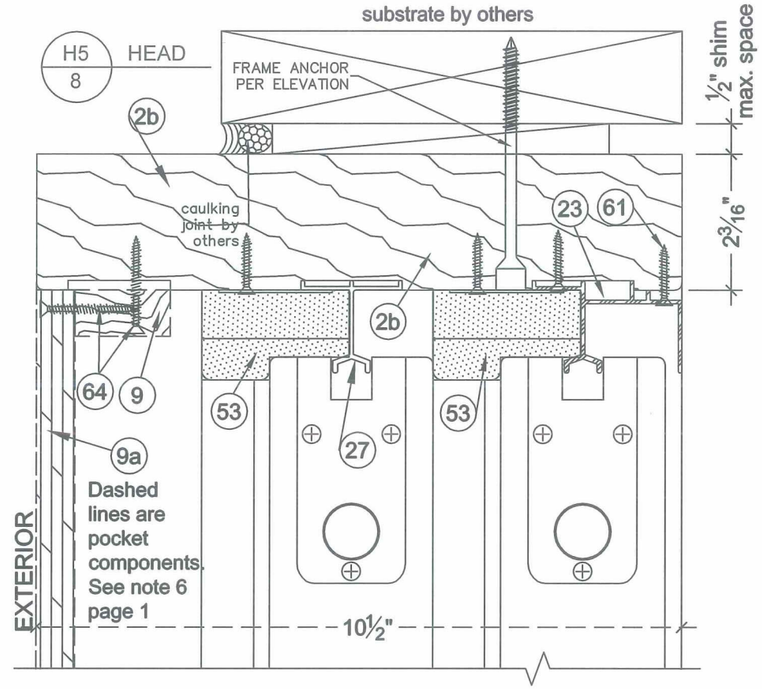
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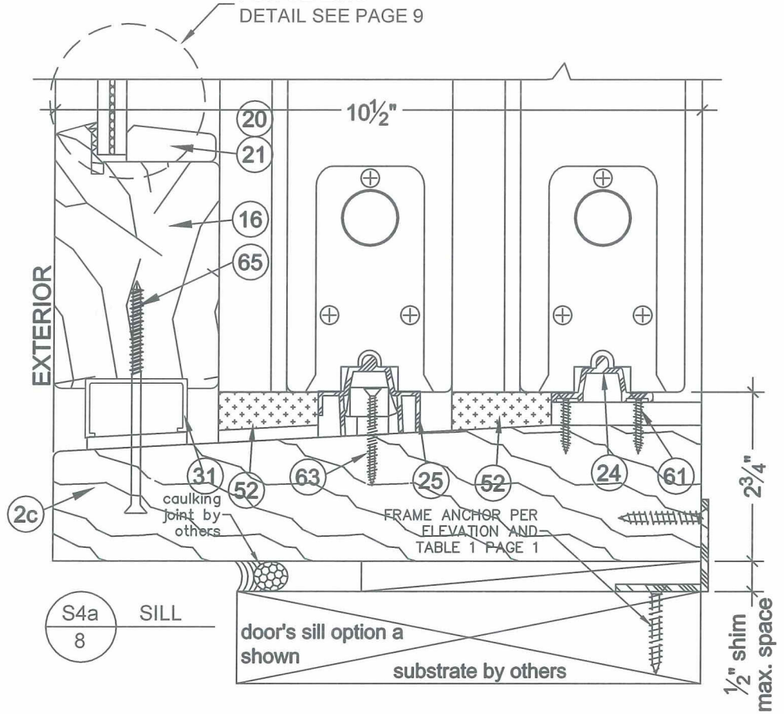
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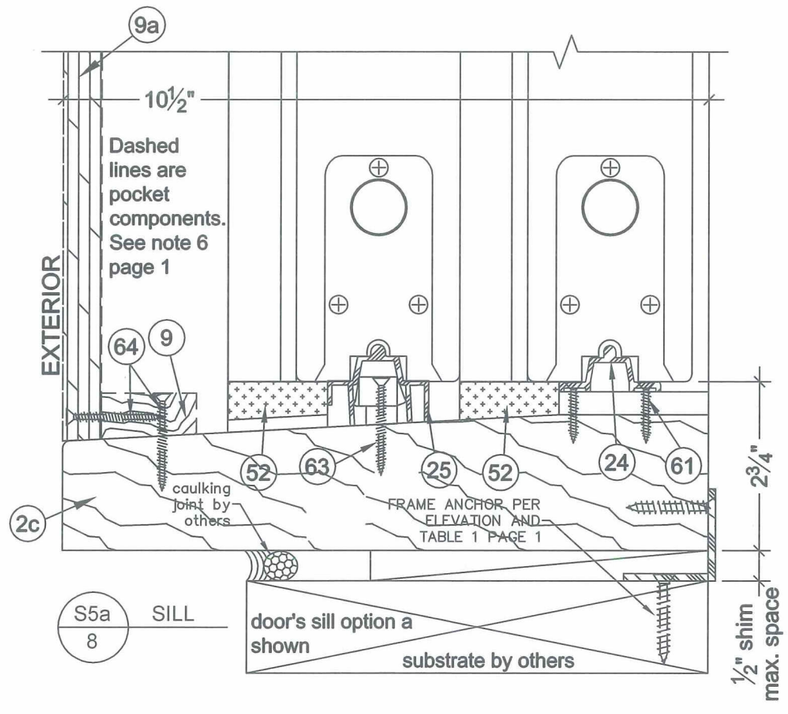
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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

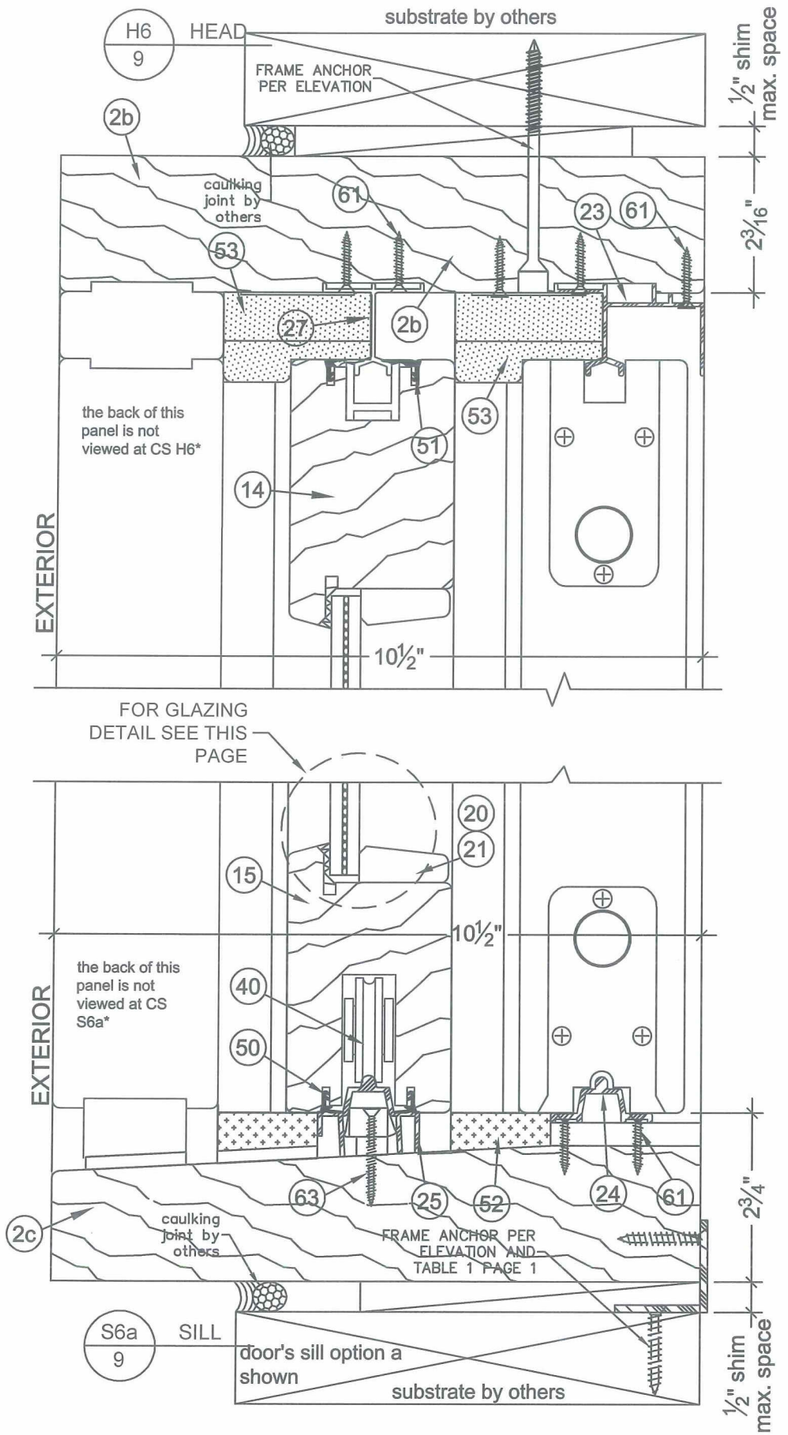
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GLAZING DETAILS

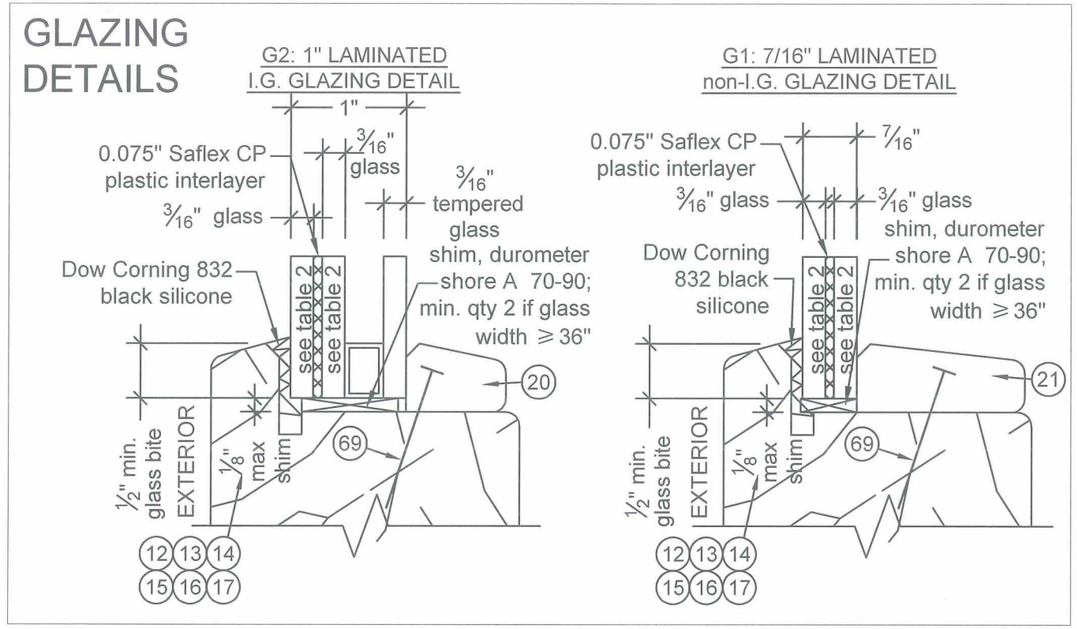


TABLE 2: LAMINATED GLASS TYPE				
	DOUBLE GLAZED LITE DLO WIDTH (IN.)			
DLO HEIGHT	DLO WIDTH (in.)			
(in.)	36	42	48	51 5/16
72	Ann.	Ann.	Ann.	Ann.
78	Ann.	Ann.	Ann.	Ann.
84	Ann.	Ann.	Ann.	Ann.
90	Ann.	Ann.	Ann.	Ann.
96	Ann.	Ann.	Ann.	H. S.
102	Ann.	Ann.	H. S.	H. S.
108	Ann.	Ann.	H. S.	H. S.
111 5/16	Ann.	Ann.	H. S.	H. S.
	SINGLE GLAZED LITE			
DLO HEIGHT	DLO WIDTH (in.)			
(in.)	36	42	48	51 5/16
72	Ann.	Ann.	Ann.	Ann.
78	Ann.	Ann.	Ann.	Ann.
84	Ann.	Ann.	Ann.	Ann.
90	Ann.	Ann.	Ann.	H. S.
96	Ann.	Ann.	H. S.	H. S.
102	Ann.	H. S.	H. S.	H. S.
108	Ann.	H. S.	H. S.	H. S.
111 5/16	Ann.	H. S.	H. S.	H. S.

Note: Ann.: Annealed glass; H.S.: Heath Strenghtened

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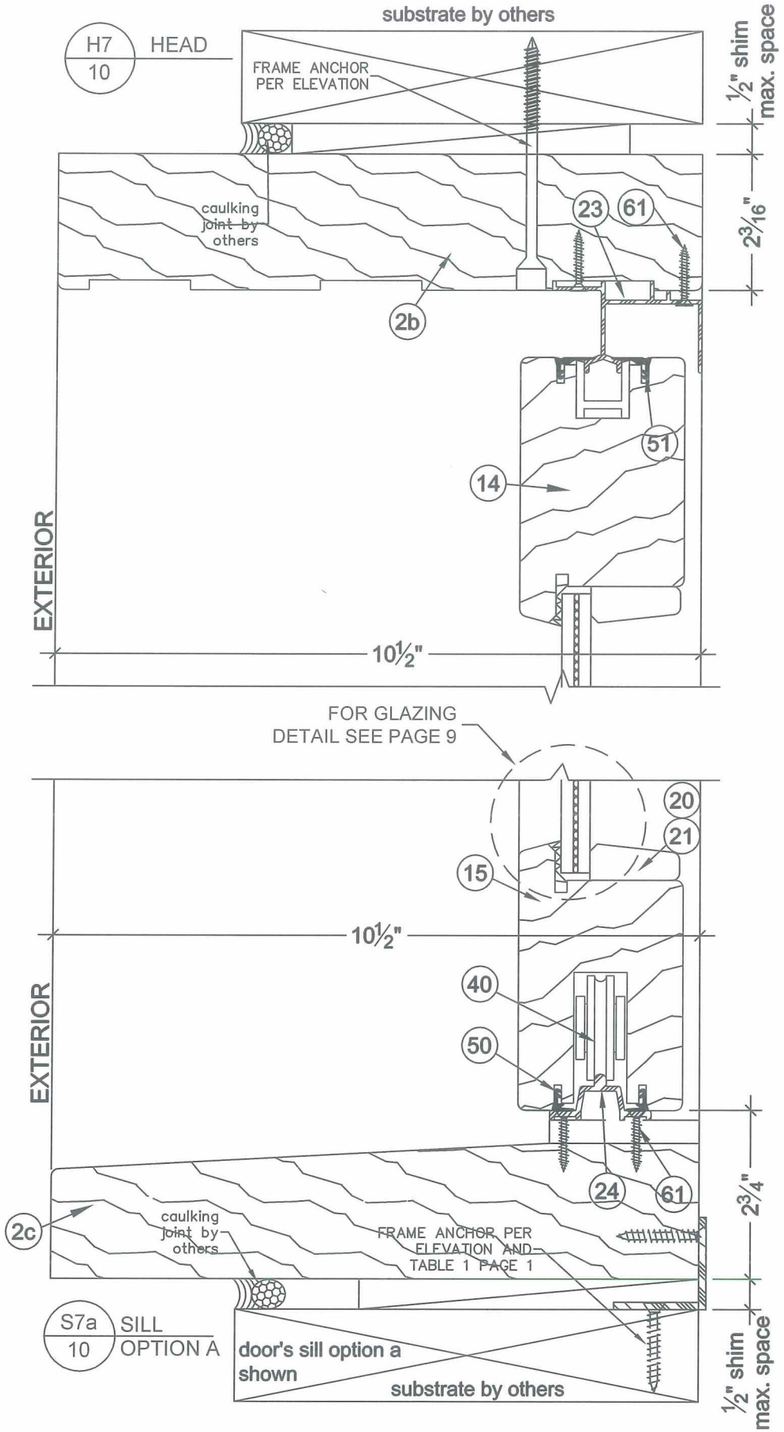
LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

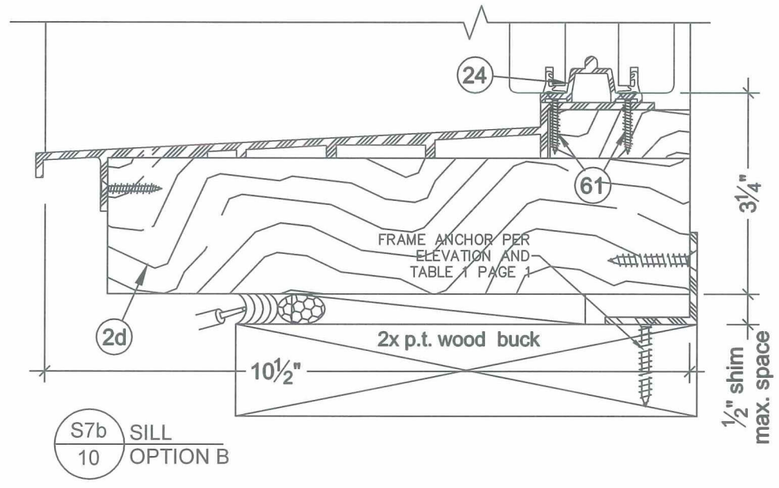
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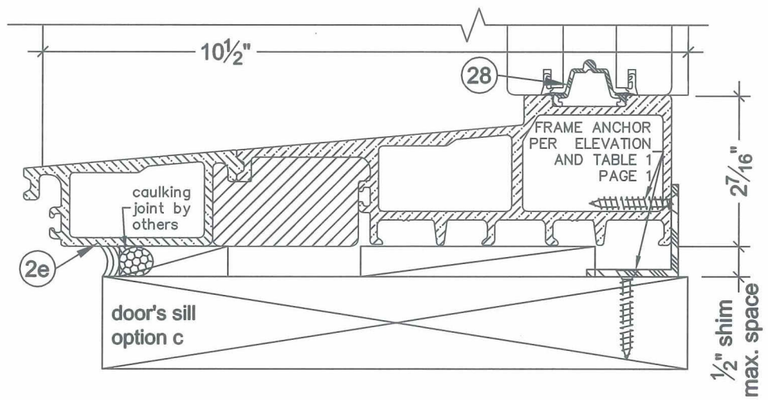
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DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

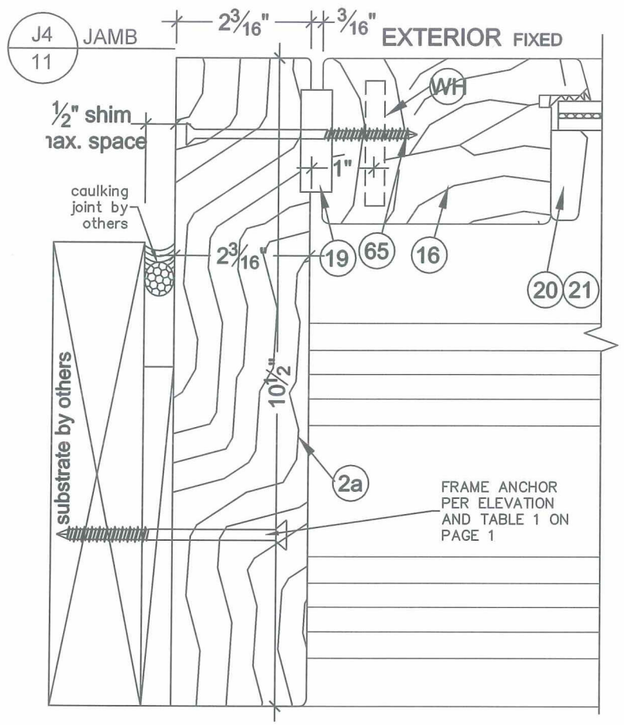
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Date drawn: 05/24/10	Date revised:
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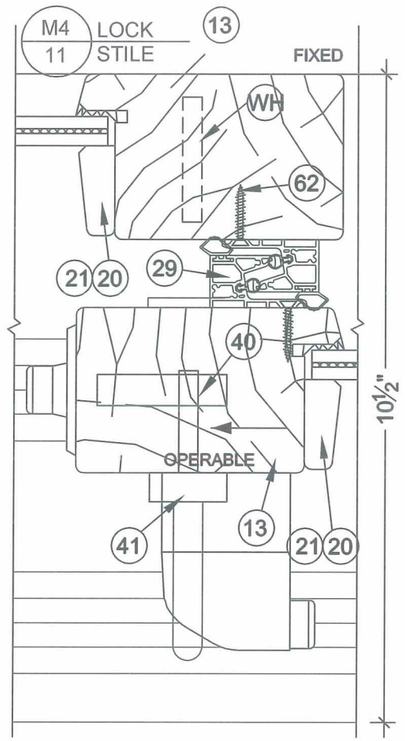
SCOTT WOLTERS
FL PE# 62354

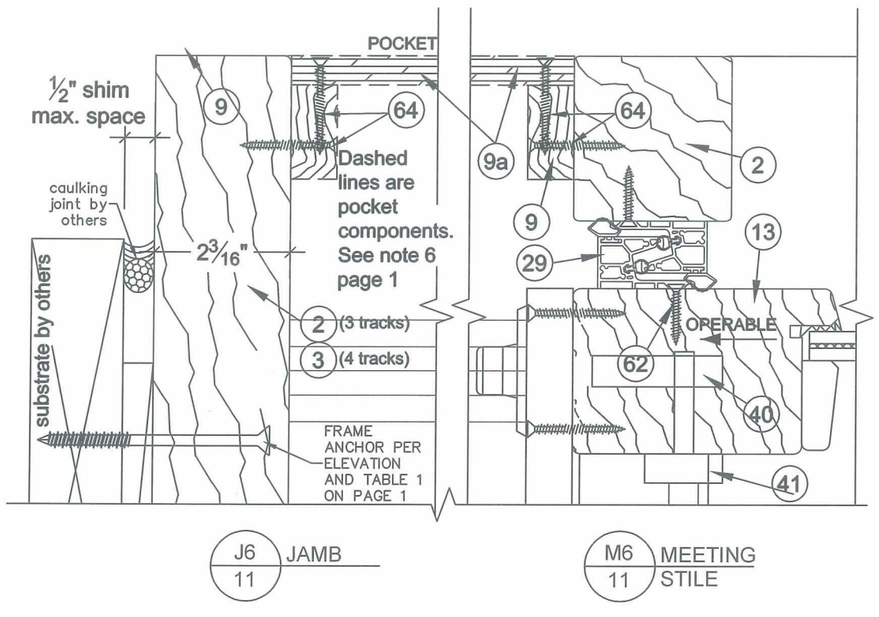
WOLTERS ENGINEERING, INC.
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

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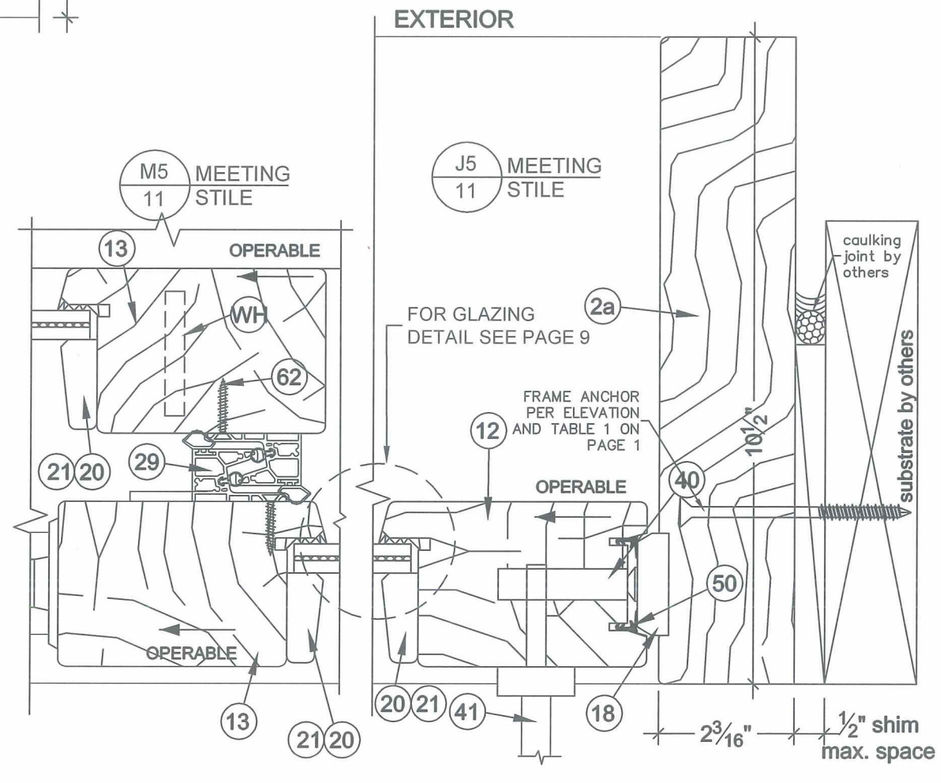






J6 / 11 JAMB

M6 / 11 MEETING STILE



WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

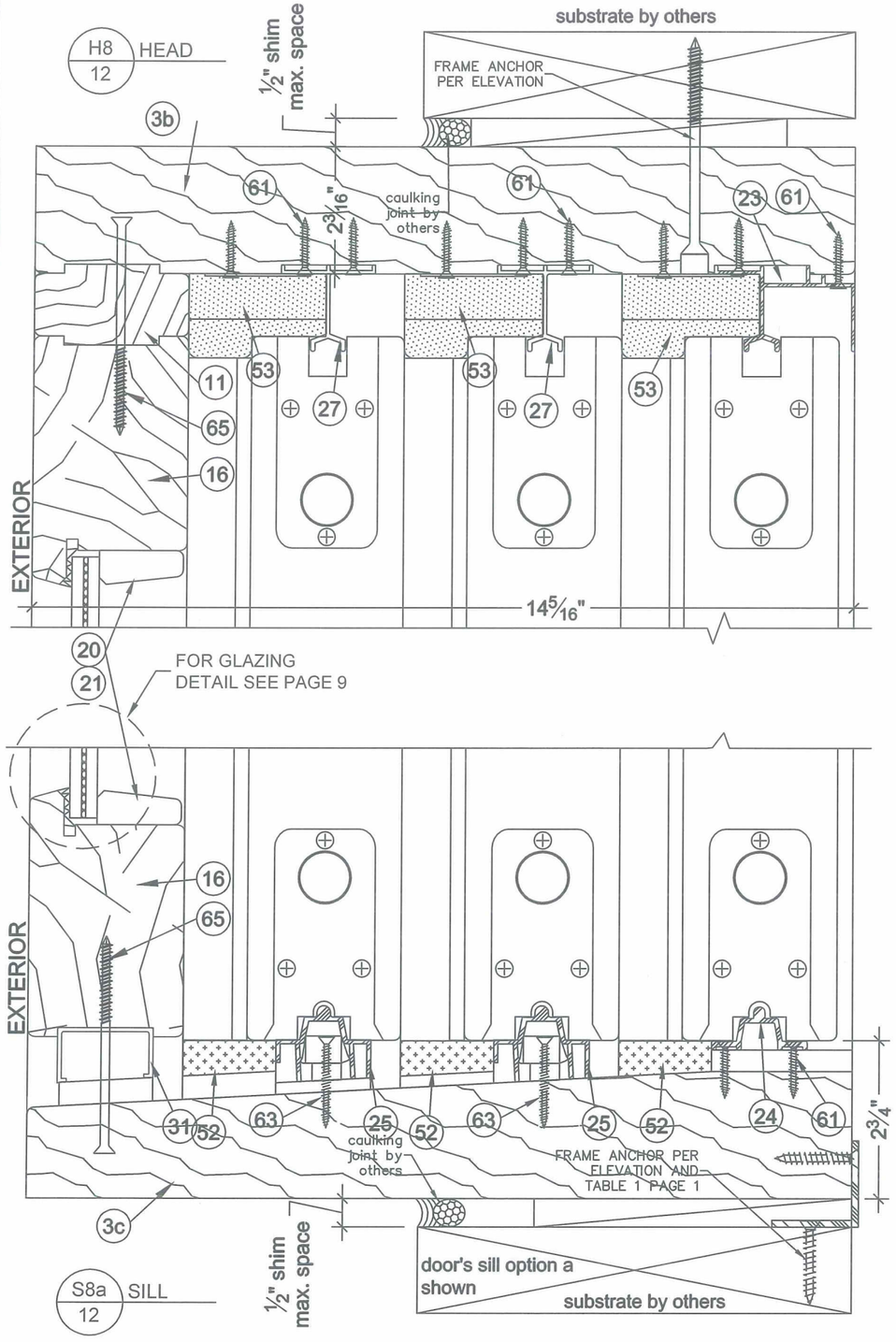
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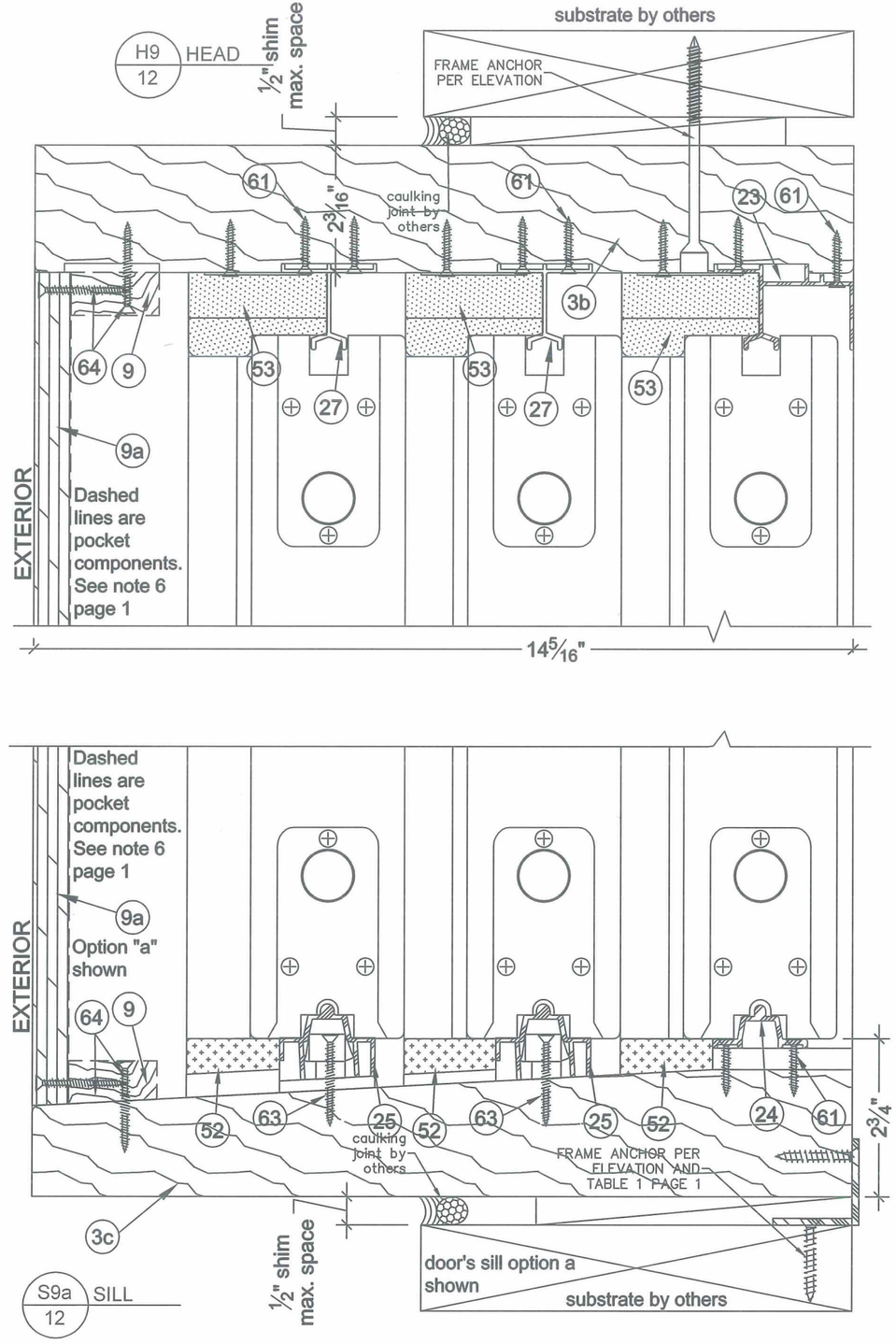
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LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

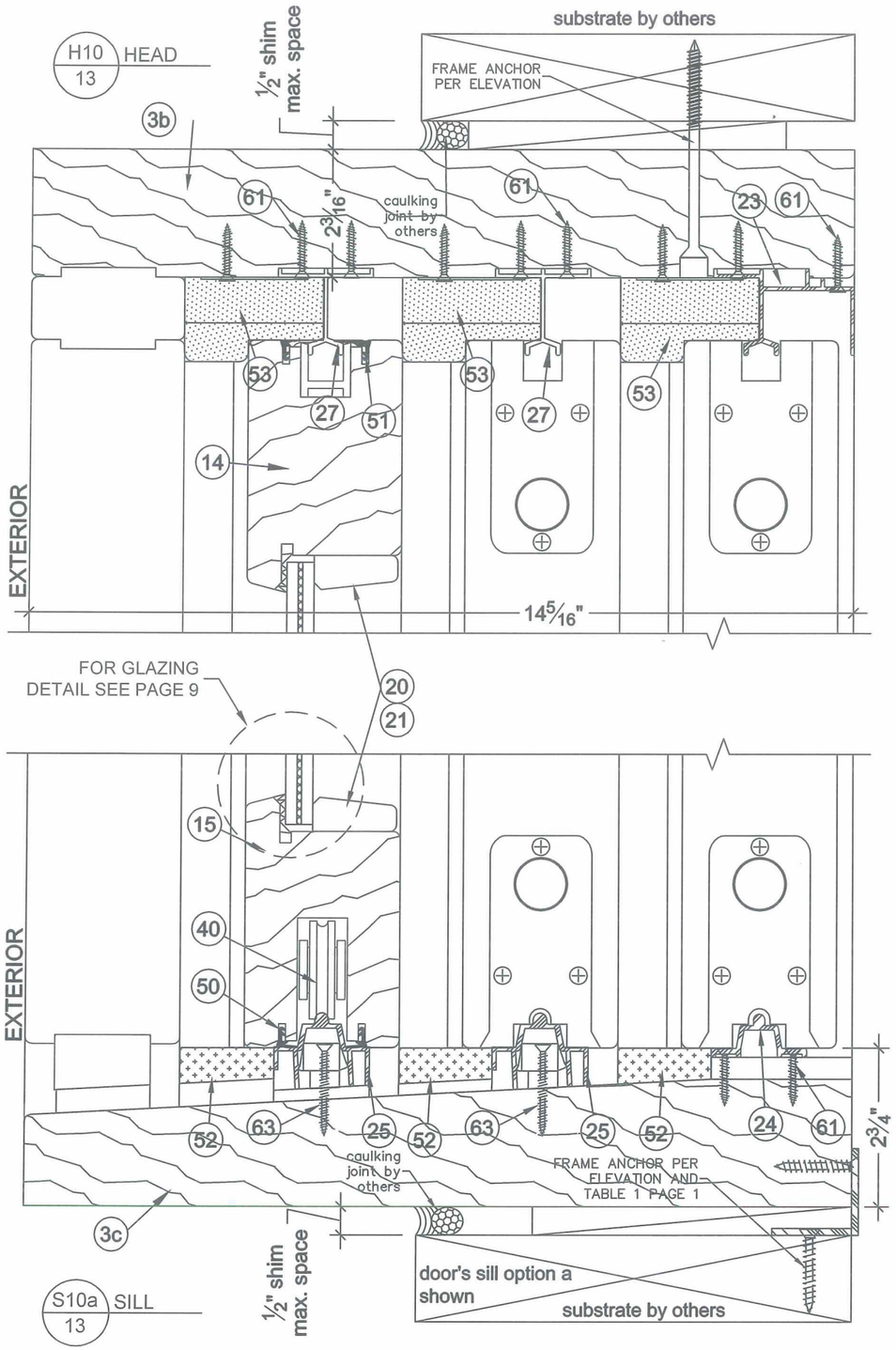
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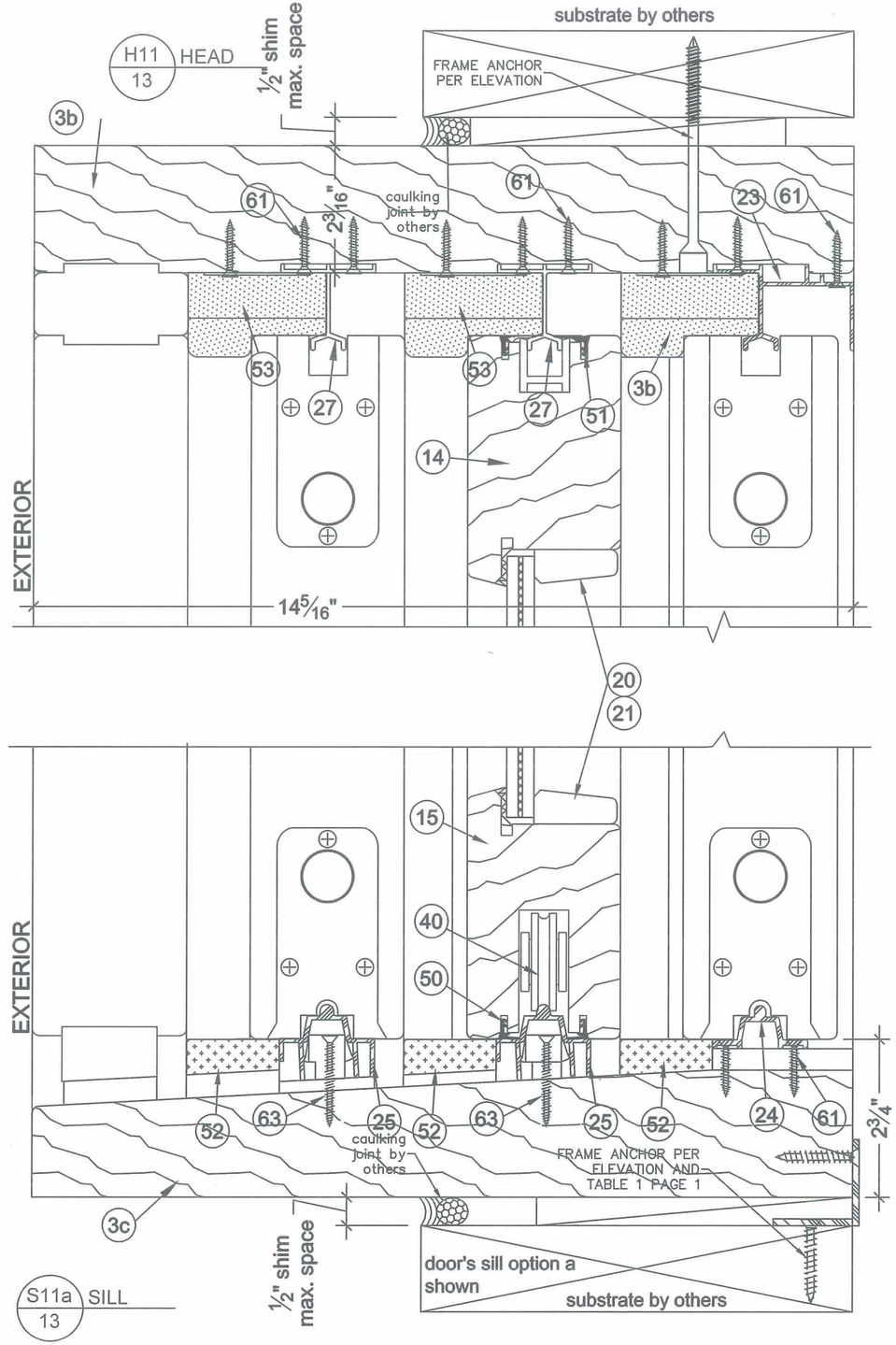
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MQ WINDOWS INC.

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DANIA, FL 33004

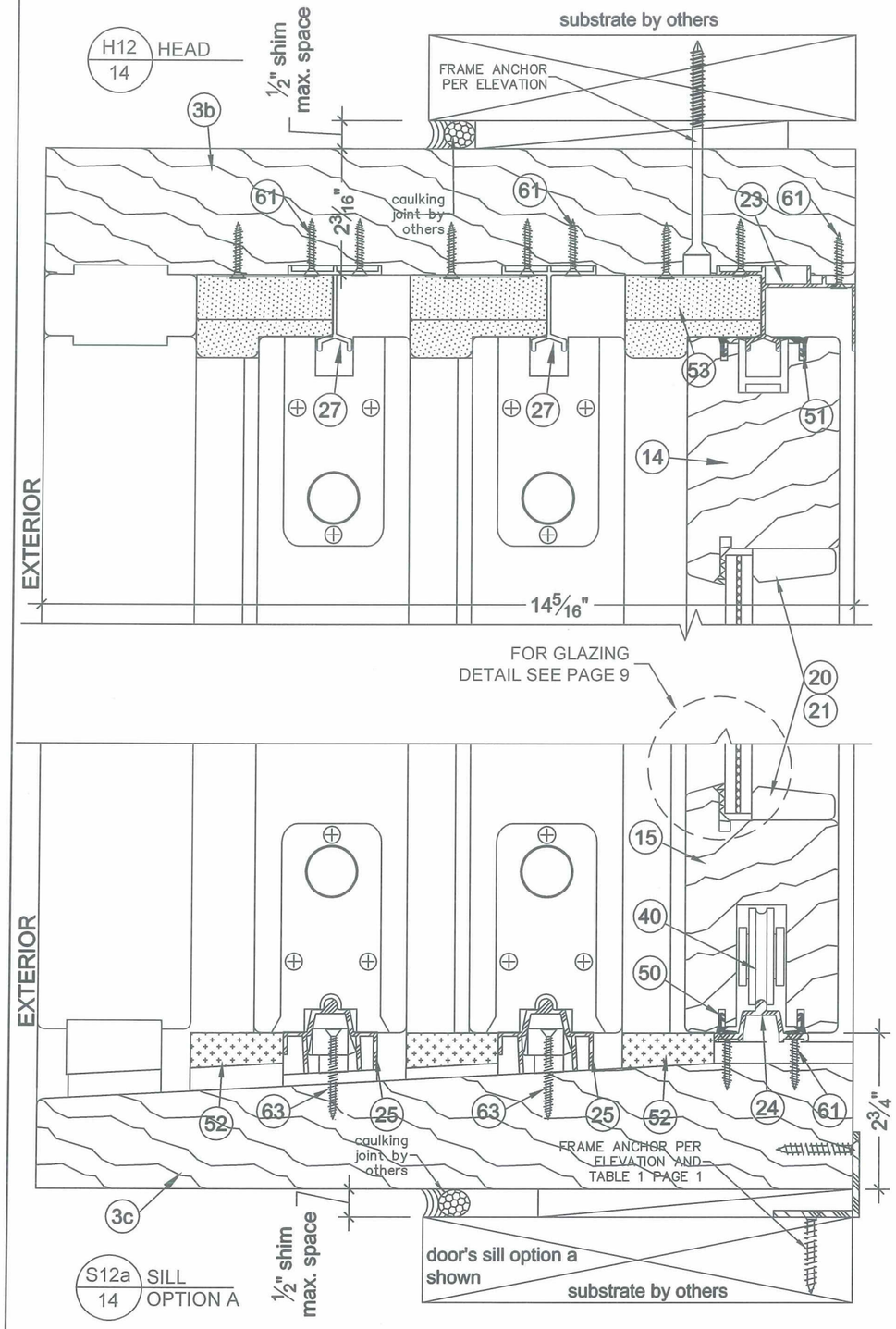
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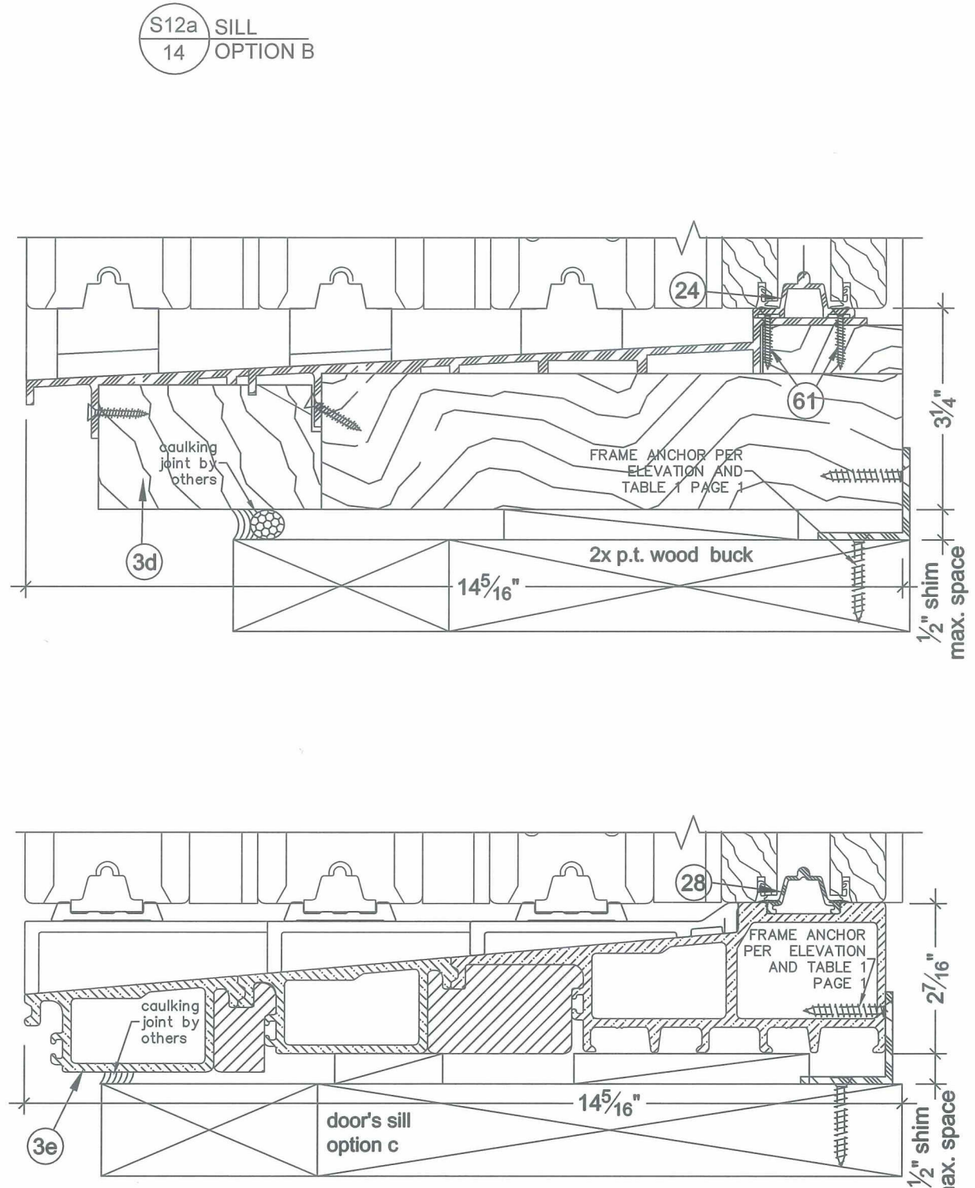
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Date drawn: 05/24/10	Date revised:
File:	Page: 13 /22

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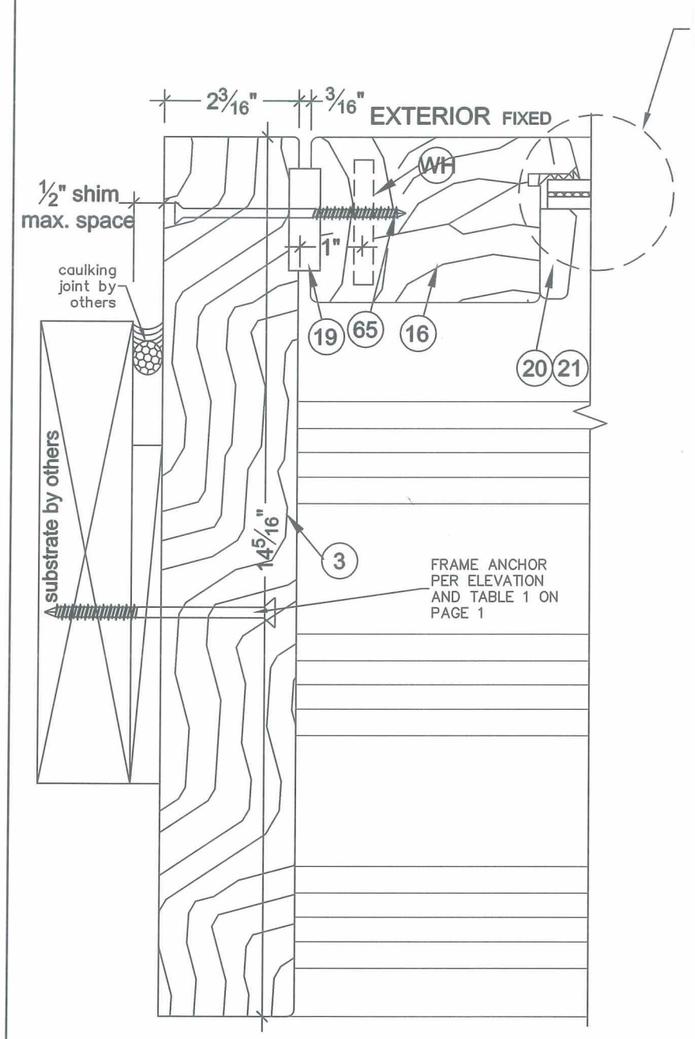
LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

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Date drawn: 05/24/10	Date revised:
File:	Page: 14 /22

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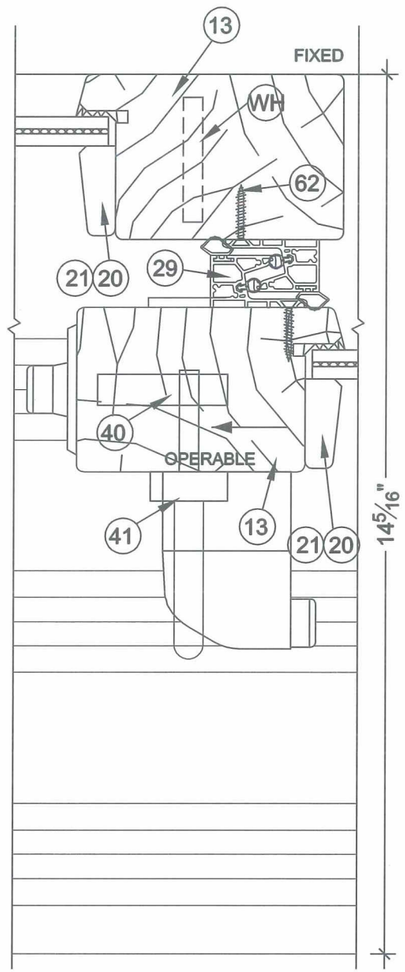
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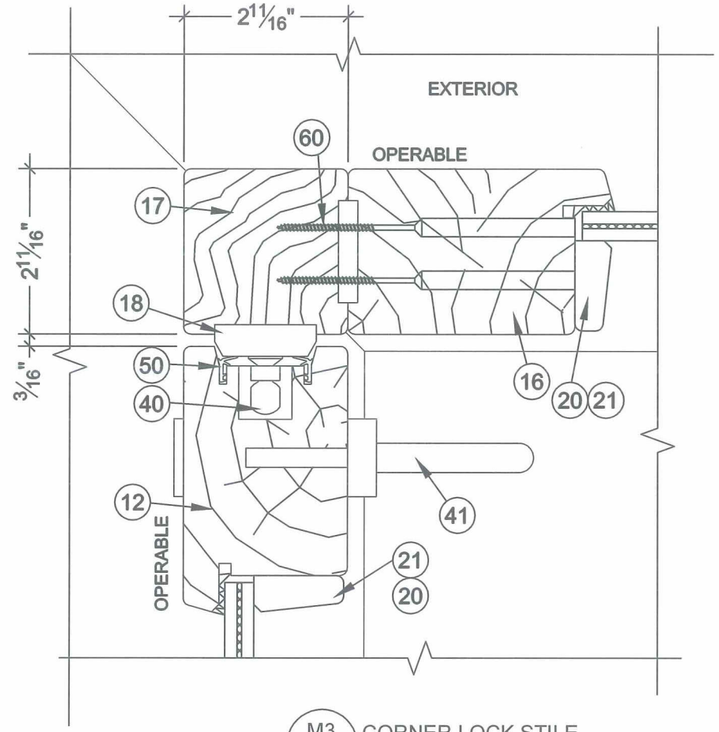


J7 / 15 JAMB

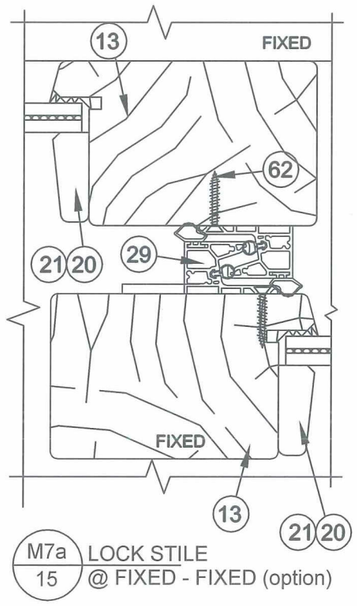
FOR GLAZING DETAIL SEE PAGE 9



M7 / 15 LOCK STILE



M3 / 15 CORNER LOCK STILE 90 degrees (option)



M7a / 15 LOCK STILE @ FIXED - FIXED (option)

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1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

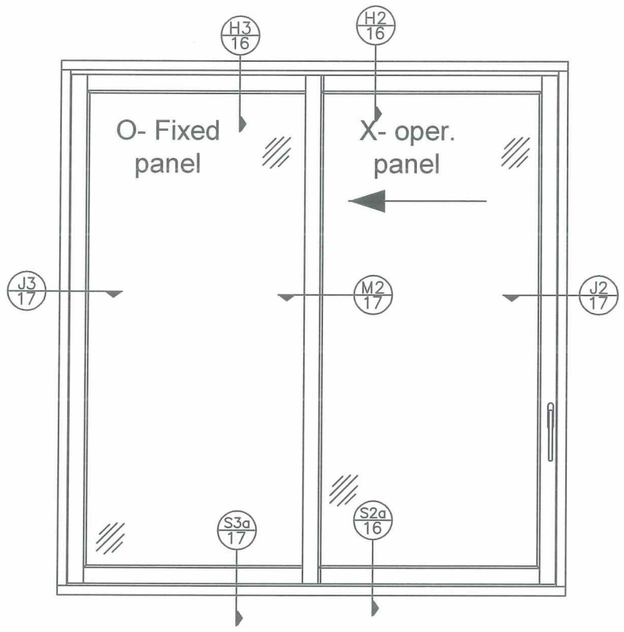
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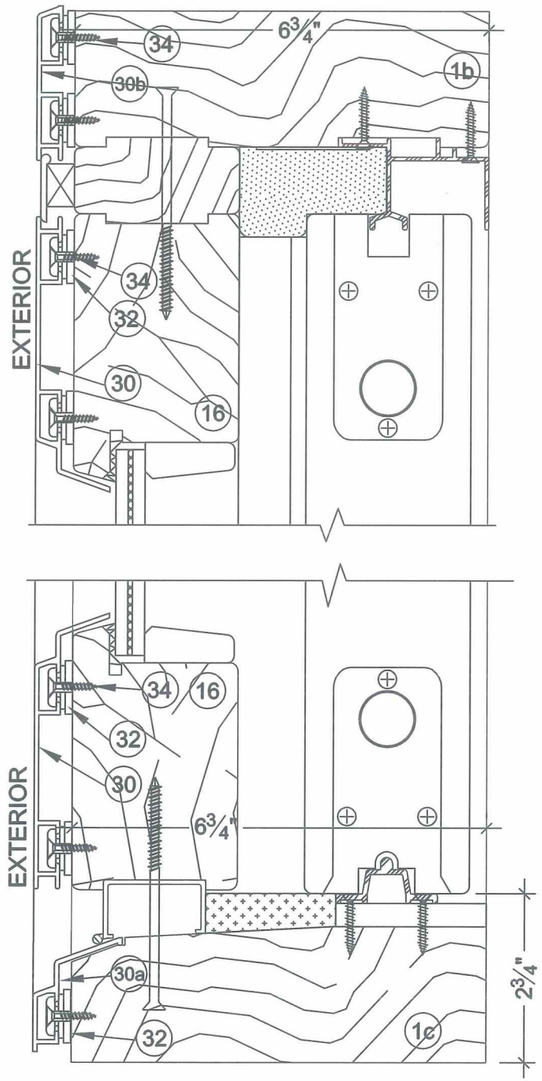
CROSS SECTIONS ON PAGE 16 & 17 ARE EXAMPLES TO SHOW THE GENERAL OPTION OF CLADDING WITH BRONZE OR ALUMINUM PROFILES THE STANDARD PROFILES FOUND THROUGHOUT THIS APPROVAL.



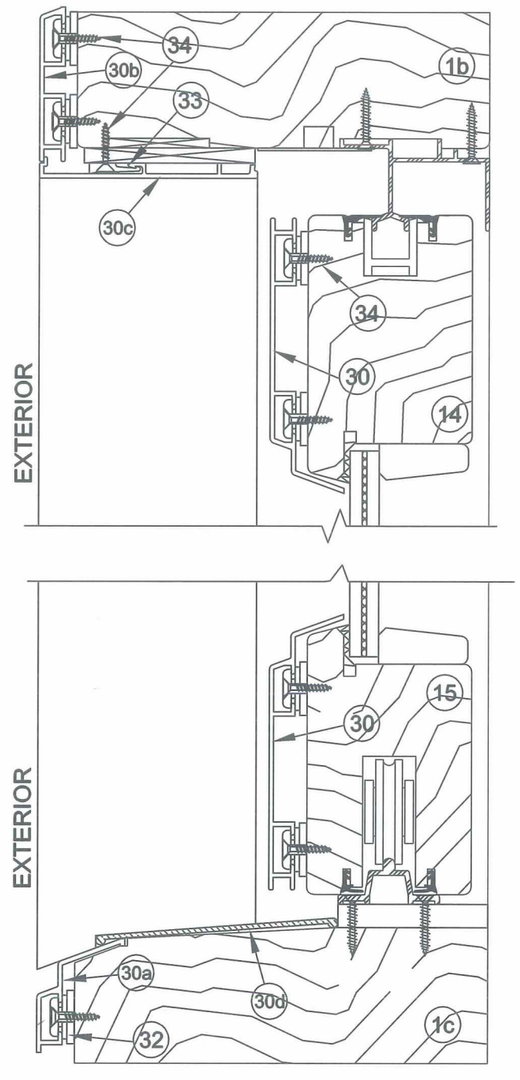
FOR SIMPLIFICATION, ONLY CLAD PROFILES ARE NOTED. FOR OTHER PARTS NUMBER PLEASE REFER TO CORRESPONDING CROSS SECTIONS ON PAGES 6 & 7. FOR ASSEMBLY LIST REFER TO PAGE 17.

FOR MORE INFORMATION RELATED TO THE ELEVATION SHOWN ON THIS PAGE PLEASE REFER TO THOSE ON PAGE 1

H3 / 16 Bronze covered HEAD



H2 / 16 Bronze covered HEAD



S3a / 16 Bronze covered SILL

S2a / 16 Bronze covered SILL

WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A–271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ–LSD–M1	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 05/24/10	Date revised:
File:	Page: 16 /22

SCOTT WOLTERS
FL PE# 62354

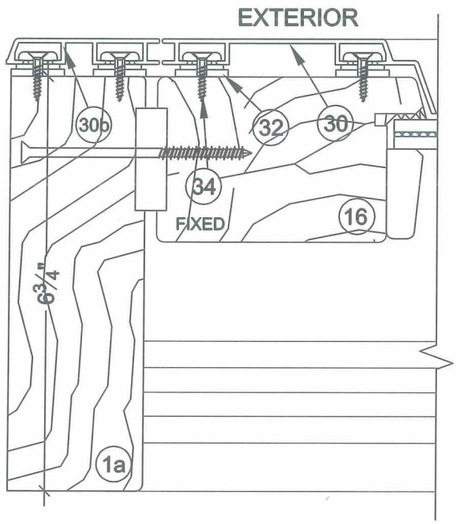
WOLTERS ENGINEERING, INC.
(COA# 27194)
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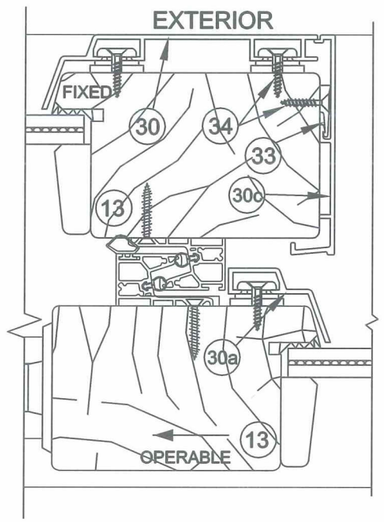
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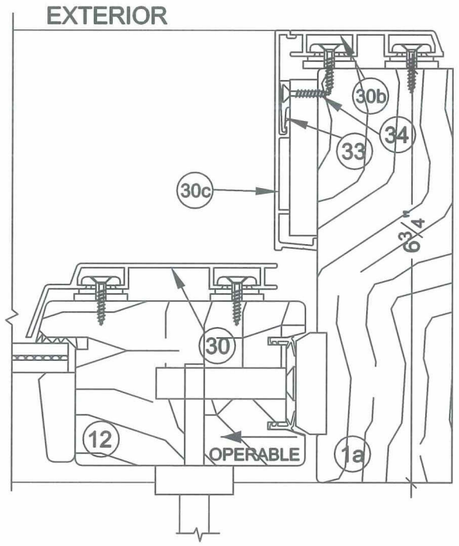
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CROSS SECTIONS ON PAGE 16 & 17 ARE EXAMPLES TO SHOW THE GENERAL OPTION OF CLADDING WITH BRONZE OR ALUMINUM PROFILES THE STANDARD PROFILES FOUND THROUGHOUT THIS APPROVAL.

FOR SIMPLIFICATION, ONLY CLAD PROFILES ARE NOTED. FOR OTHER PARTS NUMBER PLEASE REFER TO CORRESPONDING CROSS SECTIONS ON PAGES 6 & 7. FOR ASSEMBLY LIST SEE TABLE ON THIS PAGE.







item #	Item description	Manufacturer / notes
	WOOD PROFILES	
30	SASH CLAD PROFILE	Proprietary bronze C-385 or aluminum 6063 T5, clipped on (2) part 32 @ 4" from corners & 12" max o/c
30a	SASH CLAD PROFILE (recut from 30)	Proprietary bronze C-385 or aluminum 6063 T5, clipped on (1) part 32 @ 4" from corners & 12" max o/c
30b	FRAME CLAD PROFILE (recut from 30)	Proprietary bronze C-385 or aluminum 6063 T5, clipped on (2) part 32 @ 4" from corners & 12" max o/c
30c	FRAME CLAD PROFILE (side return)	Proprietary bronze C-385 or aluminum 6063 T5, clipped on (1) part 33 @ 4" from ends & 12" max o/c
30d	FRAME CLAD PROFILE (sill)	Proprietary bronze C-385 or aluminum 6063 T5, directly glued over the wood sill with Dow Corning 832 silicone.
32	Nylon clip	For parts 30, 30a, 30b, qty as noted, screwed with (1) screw part no 34
33	Nylon clip	For part 30d, qty as noted, screwed with (1) screw part no 34
34	Nylon clip	#7 x ¾" fh screw; thru clips parts 32 & 33

MQ WINDOWS INC.
1855 GRIFFIN ROAD, SUITE A–271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ–LSD–M1	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 05/24/10	Date revised:
File:	Page: 17 /22

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FL PE# 62354
WOLTERS ENGINEERING, INC.
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15211 97TH ROAD N
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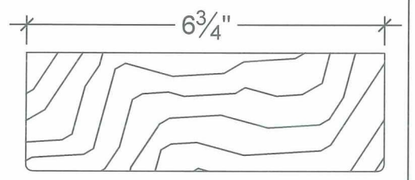
13⅛"

7⁄16"

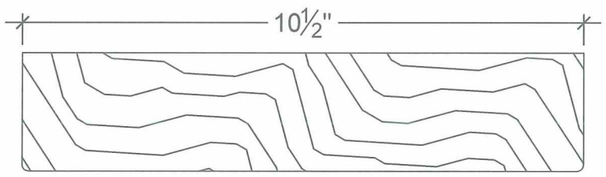
2 TRACKS

3 TRACKS

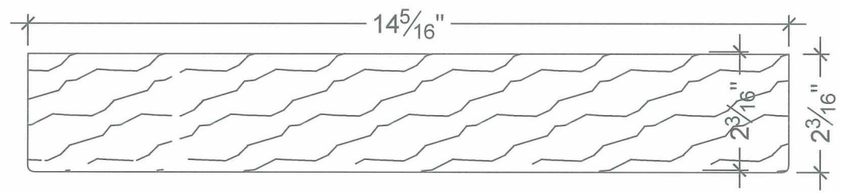
4 TRACKS



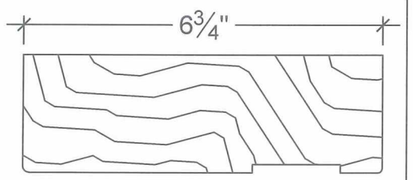
1 JAMB @pocket



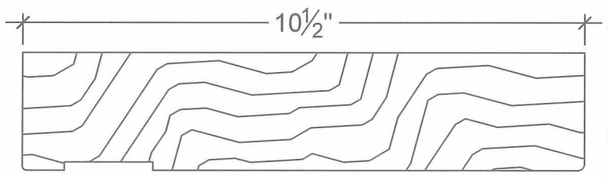
2 JAMB @pocket



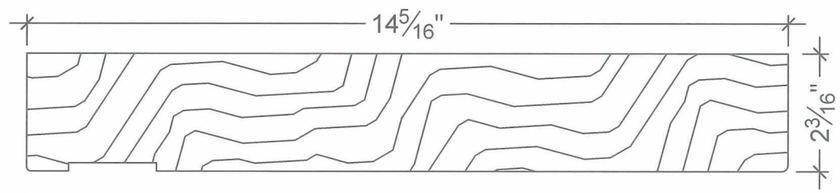
3 JAMB @pocket



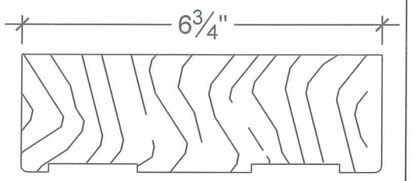
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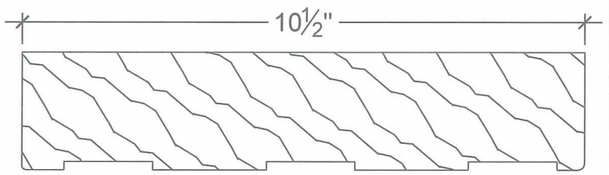
2a JAMB @Panel



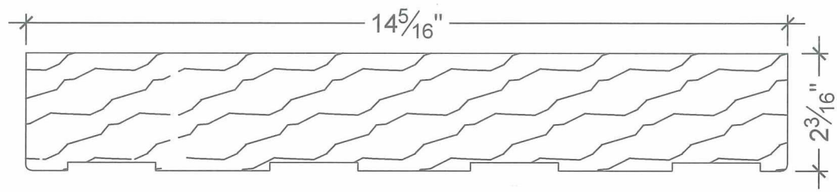
3a JAMB @Panel



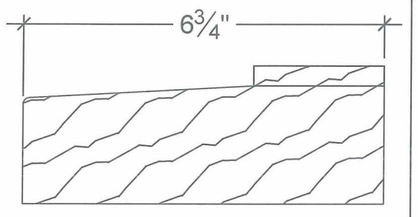
1b HEAD



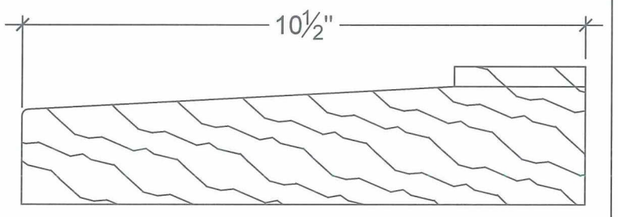
2b HEAD



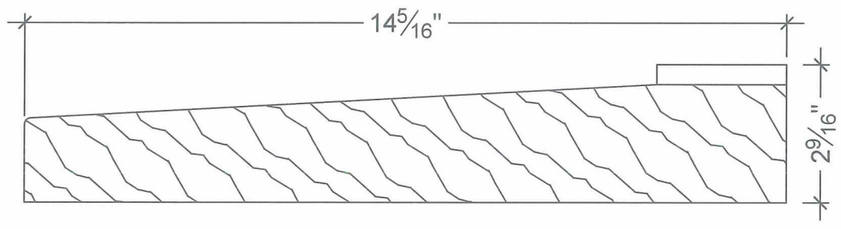
3b HEAD



1c Sill Option a



2c Sill Option a



3c Sill Option a

WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ-LSD-M1	
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Date drawn: 05/24/10	Date revised:
File:	Page: 18 /22

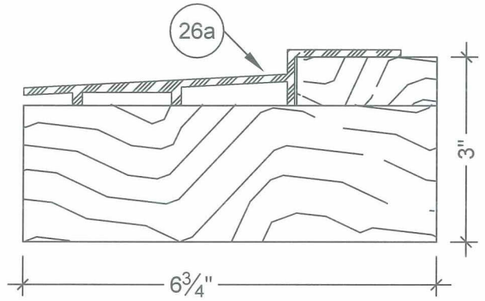
SCOTT WOLTERS
FL PE# 62354

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15211 97TH ROAD N
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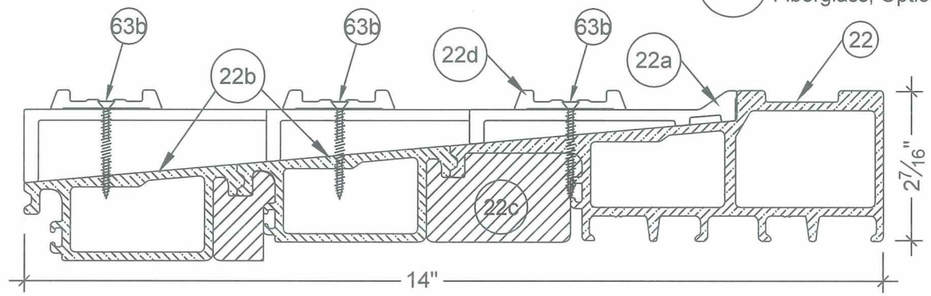
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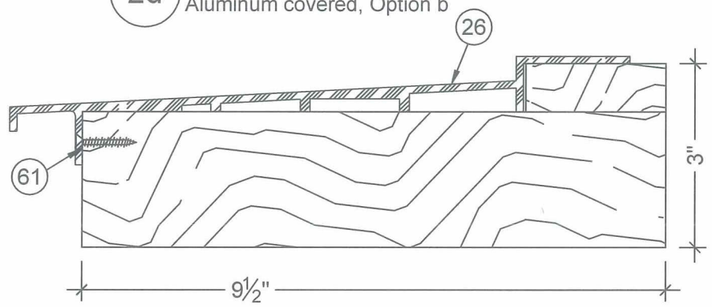
1d Frame Sill @ 2 Tracks
Aluminum covered, Option b



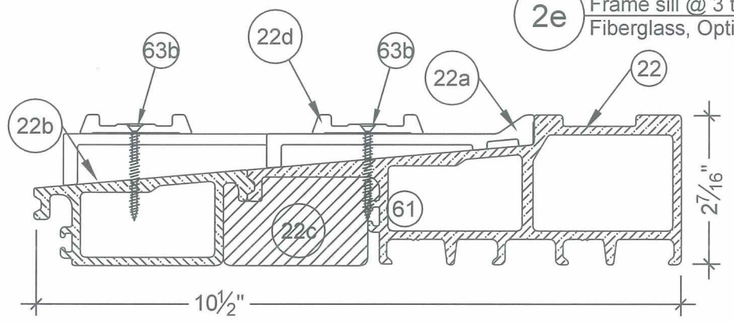
3e Frame sill @ 4 tracks
Fiberglass, Option c



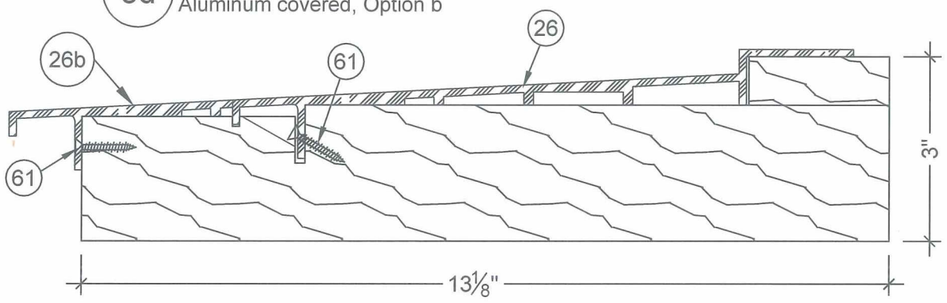
2d Frame Sill @ 3 Tracks
Aluminum covered, Option b



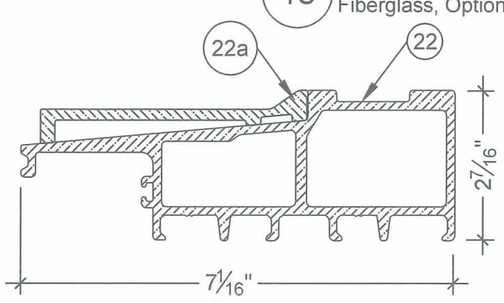
2e Frame sill @ 3 tracks
Fiberglass, Option c



3d Frame Sill @ 4 Tracks
Aluminum covered, Option b



1e Frame sill @ 2 tracks
Fiberglass, Option c



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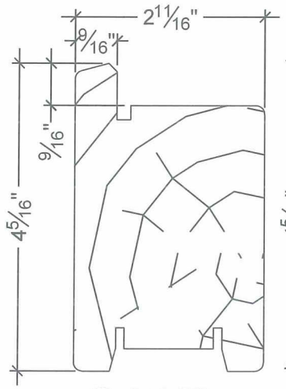
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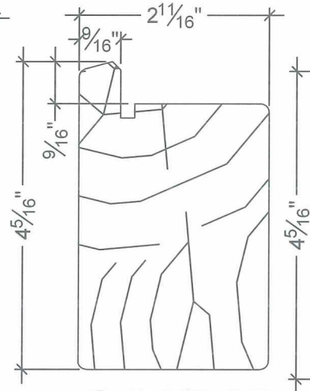
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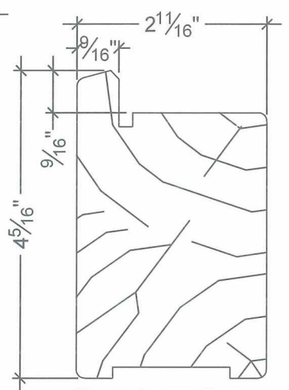
SCOTT WOLTERS LICENSE No 62354 STATE OF FLORIDA PROFESSIONAL ENGINEER



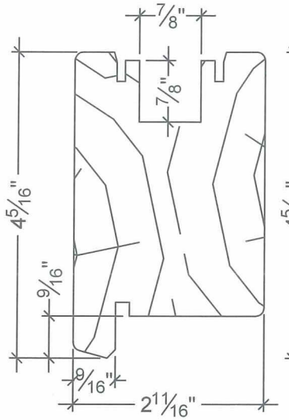
12 Lock Stile @ Sliding Panel



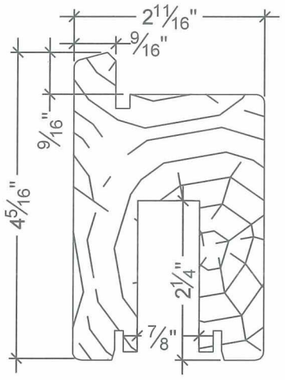
13 Hook Stile @ Fixed or Sliding Panel



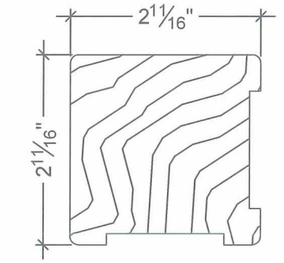
16 Bottom or Top Rail @ Fixed Panel



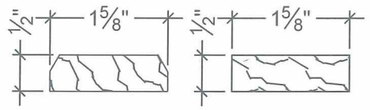
14 Top Rail @ Sliding Panel



15 Bottom Rail @ Sliding Panel

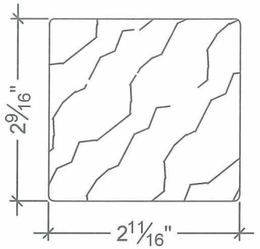


17 90° Corner @ Fixed or Sliding Panel

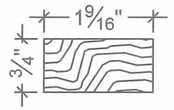


18 Meeting Profile @ Sliding Panel

19 Meeting Profile @ Fixed Panel



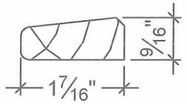
14 Top Rail @ Sliding Panel



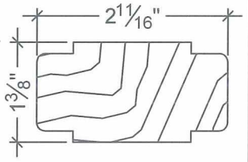
9 wood blocking @ pocket's plywood see note 6 page 1



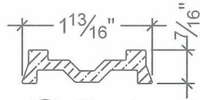
20 Glazing Bead @ I.G. Glass (G2)



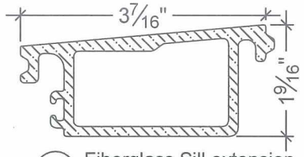
21 Glazing Bead @ Single Glass (G1)



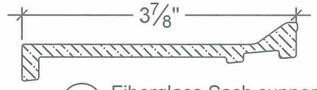
11 Wood blocking @ Fixed panel head



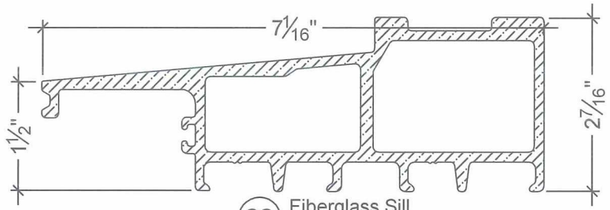
22d Fiberglass rail support MACO 454792



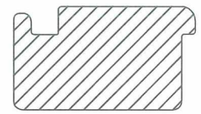
22b Fiberglass Sill extension MACO 454790



22a Fiberglass Sash support MACO 454804



22 Fiberglass Sill MACO 454772

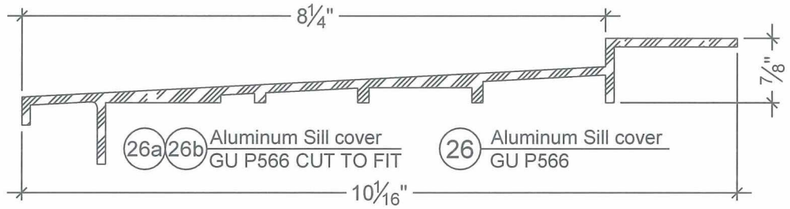


22c Fiberglass connector MACO 465261

23 Aluminum Top Rail GU P739

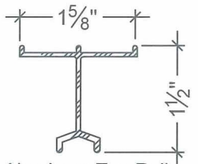
24 Aluminum Bottom Rail GU P732

25 Aluminum Bottom Rail GU P774

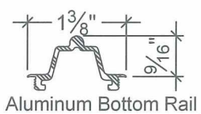


26a 26b Aluminum Sill cover GU P566 CUT TO FIT

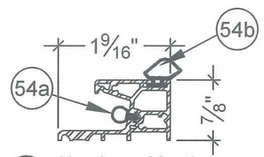
26 Aluminum Sill cover GU P566



27 Aluminum Top Rail GU P741



28 Aluminum Bottom Rail MACO 454814



29 Aluminum Meeting Profile & Gaskets MACO 455123



31 Fixed Panel PVC Bottom Rail GU P1070

WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ-LSD-M1	
Scale: NONE	Drawn by: S. Marcotte
Date drawn: 05/24/10	Date revised:
File:	Page: 20 /22

SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING, INC.
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412

AUG 22 2016

SCOTT WOLTERS LICENSE No 62354 STATE OF FLORIDA PROFESSIONAL ENGINEER

item #	Item description	Manufacturer / notes
	WOOD PROFILES	
1	FRAME JAMB / POCKET 2 rails	MAHOGANY
1a	FRAME JAMB /OP. 2 rails	MAHOGANY
1b	FRAME HEAD / 2 rails	MAHOGANY
1c	FRAME SILL/ OP. 2 rails, option a	MAHOGANY
1d	FRAME SILL/ OP. 2 rails, option b	ALUMINUM PART 26a OVER MAHOGANY
1e	FRAME SILL/ OP. 2 rails, option c	FIBERGLASS SILL part 22, 22a
2	FRAME JAMB / POCKET 3 rails	MAHOGANY
2a	FRAME JAMB /OP. 3 rails	MAHOGANY; (for aluminum sill)
2b	FRAME HEAD / 3 rails	MAHOGANY
2c	FRAME SILL/ OP. 3 rails, option a	MAHOGANY
2d	FRAME SILL/ OP. 3 rails, option b	ALUMINUM PART 26 OVER MAHOGANY
2e	FRAME SILL/ OP. 3 rails, option c	FIBERGLASS SILL part 22, 22a,b,c & d
3	FRAME JAMB / POCKET 4 rails	MAHOGANY
3a	FRAME JAMB /OP. 4 rails	MAHOGANY
3b	FRAME HEAD / 4 rails	MAHOGANY
3c	FRAME SILL/ OP. 4 rails, option a	MAHOGANY
3d	FRAME SILL/ OP. 4 rails, option b	ALUMINUM PART 26 & 26b OVER MAHOGANY
3e	FRAME SILL/ OP. 4 rails, option c	FIBERGLASS SILL part 22, 22a,b,c & d
11	Wood blocking @ Fixed panel head	MAHOGANY
12	LOCK STILE /SLIDING PANEL	MAHOGANY
13	HOOK STILE /FIXED OR SLIDING PANEL	MAHOGANY
14	TOP RAIL /SLIDING PANEL	MAHOGANY
15	BOTTOM RAIL /SLIDING PANEL	MAHOGANY
16	BOTTOM OR TOP RAIL /FIXED PANEL	MAHOGANY
17	90° CORNER /FIXED OR SLIDING PANEL	MAHOGANY
18	MEETING PROFILE /SLIDING PANEL	MAHOGANY
19	MEETING PROFILE /FIXED PANEL	MAHOGANY
20	GLAZING BEAD /1" (o.t.) I.G. GLASS	MAHOGANY
21	GLAZING BEAD / 7/16" (o.t.) SINGLE GLASS	MAHOGANY
	OTHER PROFILES	
22	SILL main body / 2 tracks	MACO #454772, fiberglass, bolted at the jamb with (2) part 70
22a	Sash support	MACO #454804, fiberglass, no mean of attachment (in between sash & frame)
22b	Frame extension / for 3 & 4 tracks	MACO #454790, fiberglass, bolted at the jamb with (1) part 70, and clipped with connector 22c @ 12" o/c along the profile
22c	Frame extension connector	MACO #465261, fiberglass, clip between sill profiles 22 & 22a or 22a & 22a
22d	Rail support	MACO #454792, fiberglass, screwed to the frame sill with part 63b
23	INTERIOR TOP RAIL	GU P739, 6063 T5 ALUMINUM ALLOY, screwed to the frame head with part 61
24	BOTTOM RAIL	GU P432, 6063 T5 ALUMINUM ALLOY, screwed to the frame sill with part 61
25	BOTTOM RAIL, with nylon clip 63a	GU P739, 6063 T5 ALUMINUM ALLOY, screwed to the frame head with part 61
26	ALU SILL COVER, / 3 TRACKS	GU P566, 6063 T5 ALUMINUM ALLOY, screwed to the frame sill front edge with part 61
26a	ALU SILL COVER, / 2 TRACKS	GU P566, 6063 T5 ALUMINUM ALLOY, cut to fit
26b	ALU SILL COVER, / 4 TRACKS	GU P566, 6063 T5 ALUMINUM ALLOY, cut to fit, to extend a full P566 profile

item #	Item description	Manufacturer / notes
27	TOP RAIL, intermediate panels	GU P741, 6063 T5 ALUMINUM ALLOY, screwed to the frame head with part 61
28	BOTTOM RAIL for fiberglass sill	MACO 454814, 6063 T5 ALUMINUM ALLOY clipped into the profile 22 or 22d
29	MEETING PROFILE	MACO 455123, 6063 T5 ALUMINUM ALLOY, screwed to the lock stile with part 62
31	FIXED PANEL SILL TRACK	GU P1070, PVC, no mean of attachment (in between sash & frame sill)
	HARDWARE	
40	LIFT & SLIDE HARDWARE	STD GU 937 FROM GU HARWARE
41	HANDLE no. K-13265	FROM GU HARWARE
	GASKETS	
50	GU GASKET P743	GU P743, EPDM - 2 ROWS WHERE INDICATED
51	GU GASKET P1697	GU P1697, EPDM - 2 ROWS AT SASH TOP RAIL
52	BOTTOM SEALING BRIDGE	GU 9-39321, NEOPRENE
53	TOP SEALING BRIDGE	GU 6-22154, FOAM
54a	INTERIOR BULB for part 29	MACO 454877, SILICONE one row
54b	EXTERIOR BULB for part 29	MACO 454878, EPDM one row
	FASTENERS	
60	#10 x 2 1/2" FH SCREW; SASH STILE TO PART 17	WITHIN 6" OF CORNERS AND MAX. 20" THEREAFTER, 1 ROW, SCATTERED
61	#7 x 1" FH SCREW; THRU ALL ALU. RAILS TO WOOD FRAMES	2 ROWS @ MAX. 10" ON CENTERS
62	#7 x 1" FH SCREW; THRU PART 29 MEETING PROFILE TO SASH STILE	1 ROW @ MAX. 10" ON CENTERS
63	#7 x 1 1/2" FH SCREW; THRU PART 63a rail clip	2 PER CLIP; @ CLIPS MAX. 10" ON CENTERS
63a	Attachment clip of part 25	@ MAX. 10" o/c, screwed with part 63
63b	#7 x 1 1/2" FH SCREW; THRU RAIL 22d	1 ROW @ MAX. 10" ON CENTERS
64	#7 x 1 1/2" FH SCREW; @ PART 9 PLYWOOD STOPPER (POCKET) & PART 9a PLYWOOD	WITHIN 6" FROM CORNERS AND MAX. 14" ON CENTERS
65	#12 x 4" FH SCREW; @ THRU FRAME TO FIXED PANEL	WITHIN 6" FROM CORNERS AND MAX. 16" ON CENTERS
66	ALUMINUM ANGLE ALLOY 6063-T5 1/8"(T) x 1 1/2" x 1 1/2"	CONTINUOUS, FIXED TO THE FRAME AND TO THE BUCK FRAME WITH SCREW #67
67	#12 x 1 1/2" FH WOOD SCREW	@ 5 1/2" FROM CORNERS AND MAX. 12" ON CENTERS
68	1/4Ø x 3 3/4" FH SCREW; @ THRU FRAME TO BUCK FRAME	@ 5 1/2" FROM CORNERS AND MAX. 12" ON CENTERS
69	18g 1 1/4" FINISHING NALS THRU GLAZING BEADS 20 & 21 TO THE SASH PROFILES	SPACED 2" FROM THE CORNERS AND 9½" O/C AT HEAD & SILL, AND 6" O/C AT JAMBS
70	(3) 1/4" Ø x 4" ASSEMBLY SCREW WITH ROUNDED NUT GU K-10323-00-0-0	SPACED 2 5/8" O/C, LOCATED AT FRAME'S HEAD AND SILL CORNERS, AND AT FRAME TO FRAME CONNECTIONs
71	7/16" Ø X 2 3/4"" (L) WOOD DOWEL	(4) PER PANEL'S CORNER, SECURED WITH RHENOCOL 3W-4B TYPE 1 EXTERIOR GLUE FOR WOOD
WH	5/16"Ø Weep Hole	AT SILL AT MEETING STILES AND AT 1" FROM FRAME JAMB WHERE INDICATED
9	Continuous mahogany wood blocking for plywood	Along plywood perimeter at pocket, screwed with 64
9a	standard utility plywood	½" thick, attached to part 9 with screws no 64

MQ WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A–271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ–LSD–M1

Scale: NONE	Drawn by: S. Marcotte
Date drawn: 05/24/10	Date revised:
File:	Page: 21 /22

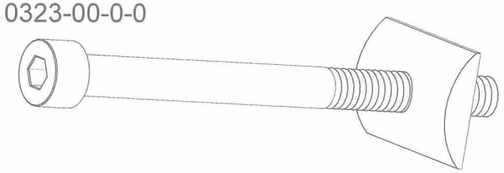
SCOTT WOLTERS
FL PE# 62354

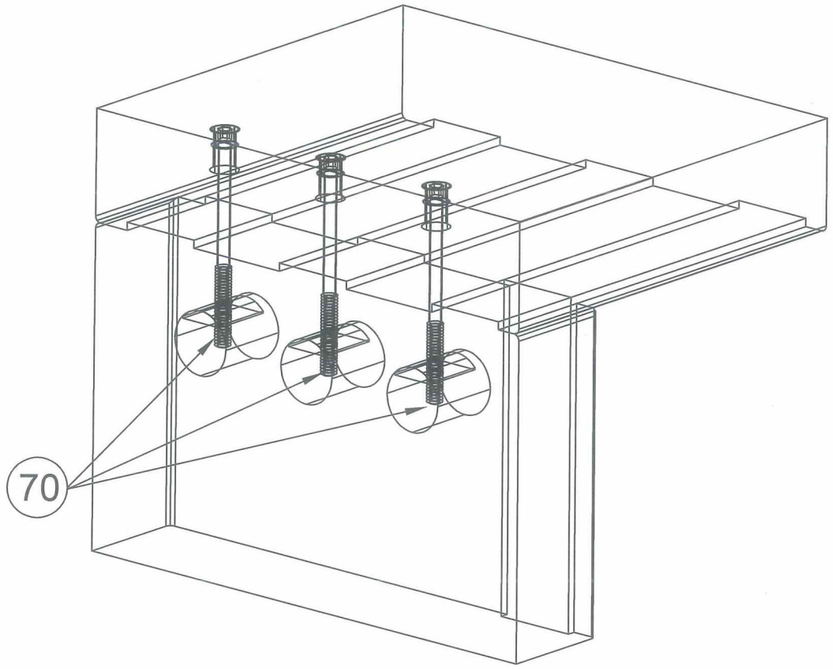
WOLTERS ENGINEERING, INC.
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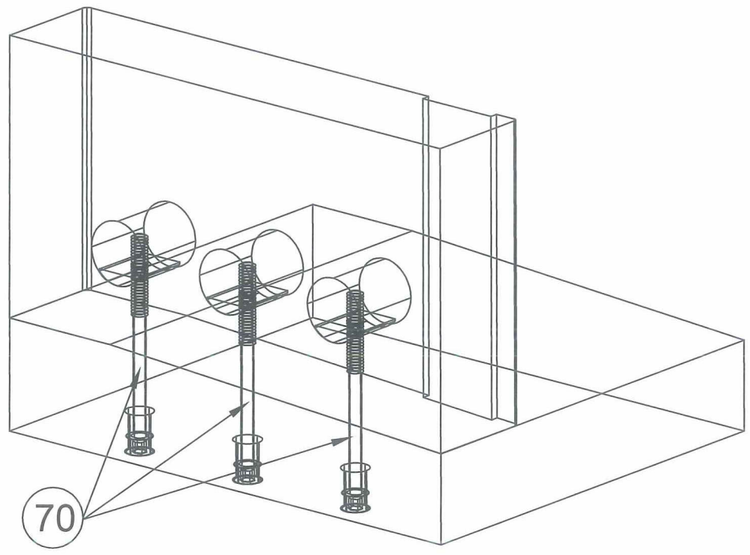
AUG 22 2016

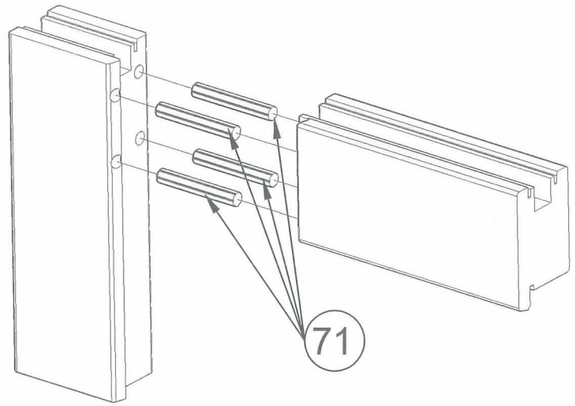
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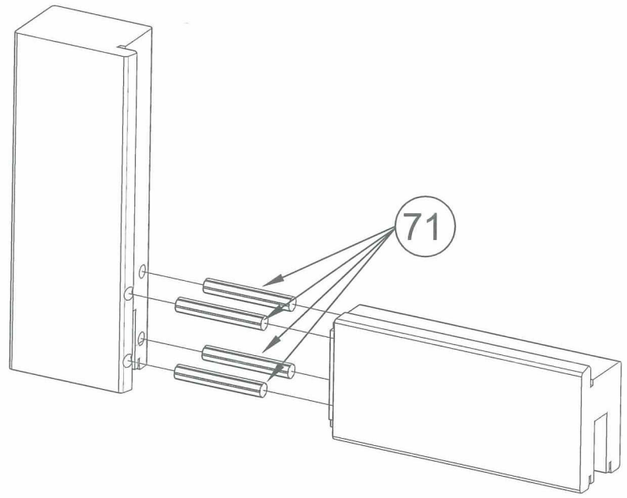
PART #70: ASSEMBLY SCREW WITH ROUNDED NUT GU K-10323-00-0-0

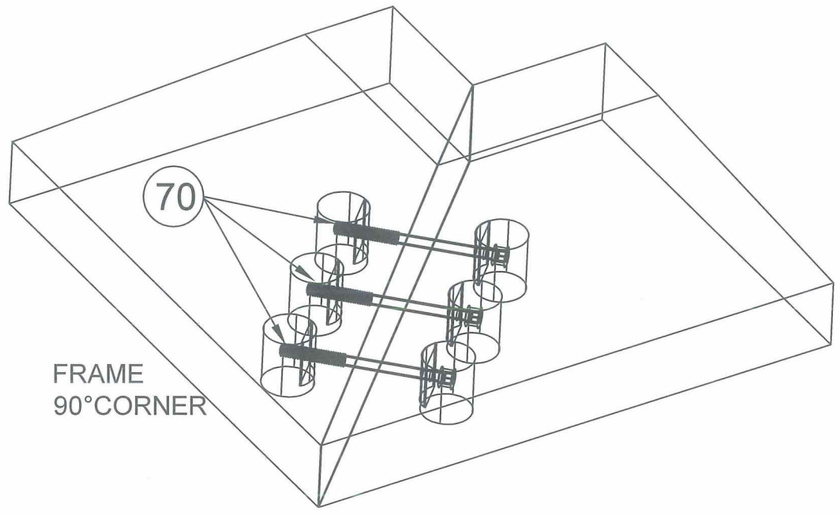












FRAME
90°CORNER

WINDOWS INC.

1855 GRIFFIN ROAD, SUITE A-271
DANIA, FL 33004

LIFT AND SLIDE WOOD SLIDING GLASS IMPACT DOORS

Drawing no.: MQ-LSD-M1	
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