



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**C.P. Lowen Enterprises
77 P.T.H. 52 West Box 2260
Stein Bach, Manitoba, Canada ROA 2A0**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Wood Fixed Window

APPROVAL DOCUMENT: Drawing No. 1095, titled "Aluminum Clad Wood Impact Fixed Casement Windows", sheets 1 through 3, prepared, signed and sealed by Warren Schaefer, P.E., dated 4/24/02, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

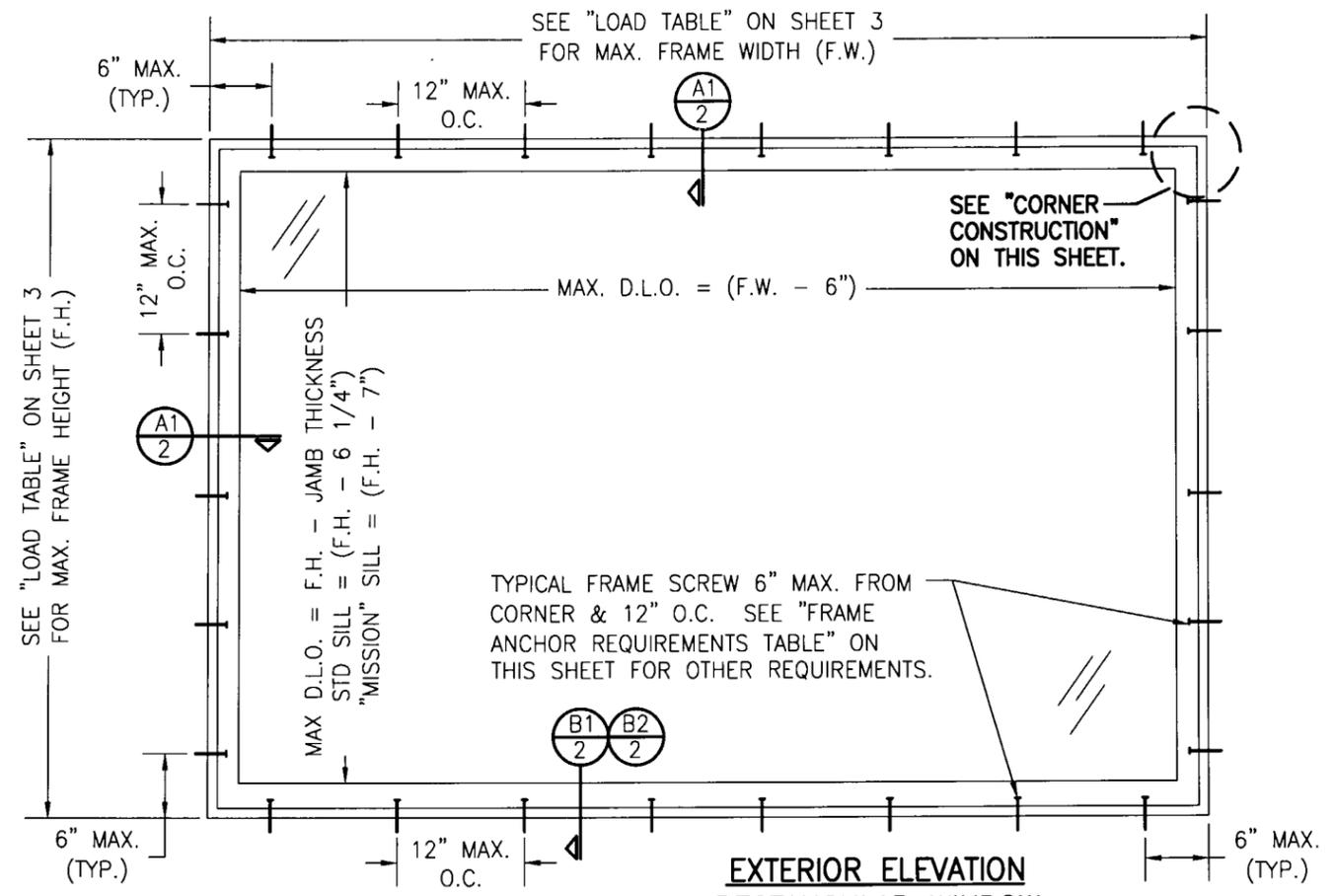
INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

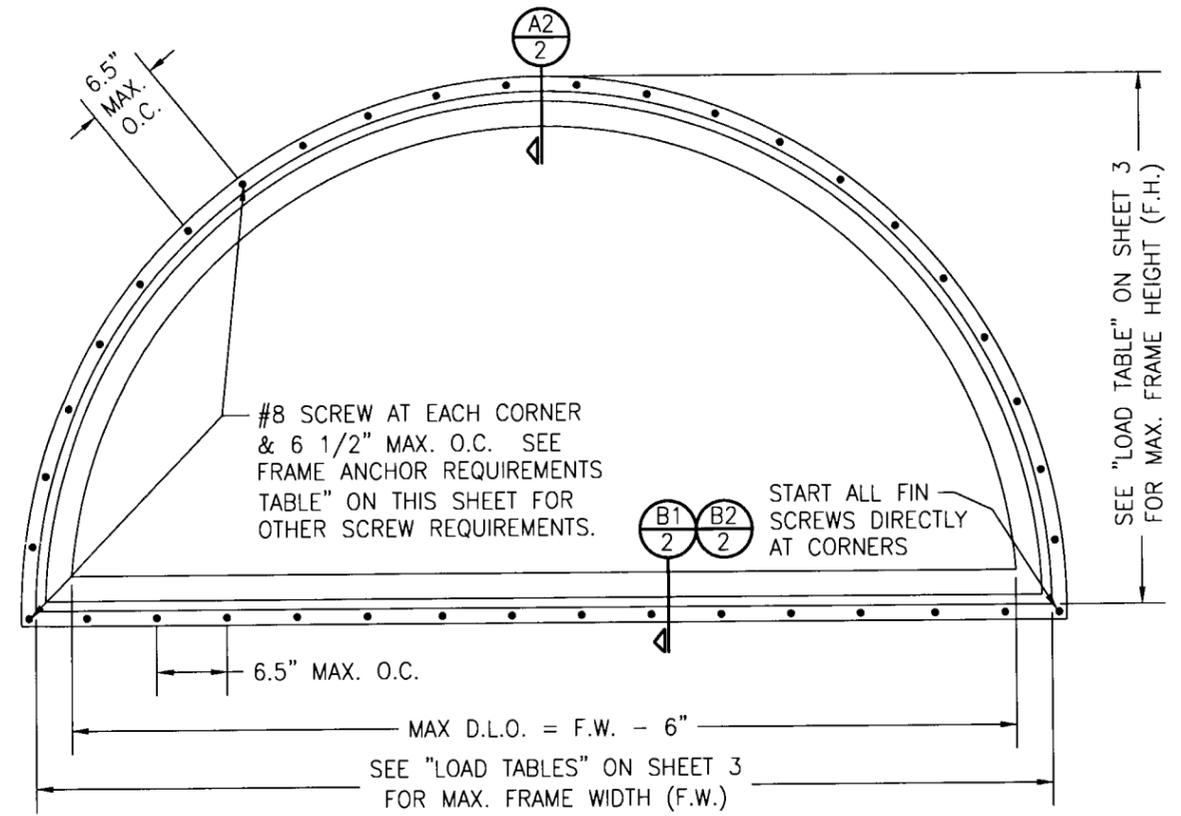


**NOA No 02-0503.08
Expiration Date: August 15, 2007
Approval Date: August 15, 2002
Page 1**

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/24/02
NO.	DATE
BY	REVISION DESCRIPTION
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS	
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 P.T.H. 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING NO. 1095	
REV.	
SHEET NO. 1 OF 3	



**EXTERIOR ELEVATION
RECTANGULAR WINDOW**
(SHEAR SCREW MOUNT SHOWN; OPTIONAL
NAIL FIN MOUNT APPLICABLE)



**EXTERIOR ELEVATION
HALF ROUND WINDOW**
(OPTIONAL NAIL FIN MOUNT SHOWN;
SHEAR SCREW MOUNT APPLICABLE)

CORNER CONSTRUCTION:

SASH (LINEAL TO LINEAL):
WOOD MEMBERS ARE JOINED BY A MORTISE AND TENON JOINT AND MECHANICALLY FASTENED USING TWO (2) 16 GA. 1 1/4" FINISH NAILS PER CORNER.

SASH (RADIAL TO LINEAL):
MECHANICALLY WOOD MEMBERS ARE MITER CUT, BUTTED TOGETHER AND FASTENED USING TWO (2) #6 X 2" PH WS; ONE INTO EACH MEMBER.

SASH CLAD:
THE SASH CLADDING IS SNAPPED ONTO MEMBER AND FASTENED USING 16 GA. X 3/4" BRAD NAILS 1" FROM CORNERS & 6" O.C. THEN SEALED WITH TREMFLEX 834.

JAMB:
WOOD MEMBERS ARE COPED, SEALED, BUTTED TOGETHER AND MECHANICALLY FASTENED USING THREE (3) 1 3/4" 16 GA. STAPLES HORIZONTALLY AND TWO (2) 1 3/4" 16 GA. STAPLES VERTICALLY. SCHNEE-MOREHEAD SM7100 CAULK IS APPLIED TO THE SEAM PRIOR TO JOINING THE WOOD MEMBERS.

JAMB CLADDING:
THE JAMB CLADDING IS MITERED, SNAPPED INTO PLACE OVER A BEAD OF SEALANT, GASKETED WITH A 1/16" THICK CLOSED CELL FOAM THEN BUTTED TOGETHER AND MECHANICALLY FASTENED USING ONE (1) #6 X 1 1/2" S.M.S. PER CORNER. TREMFLEX 834 IS THEN APPLIED TO THE CLAD SEAM.

GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, FBC.
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

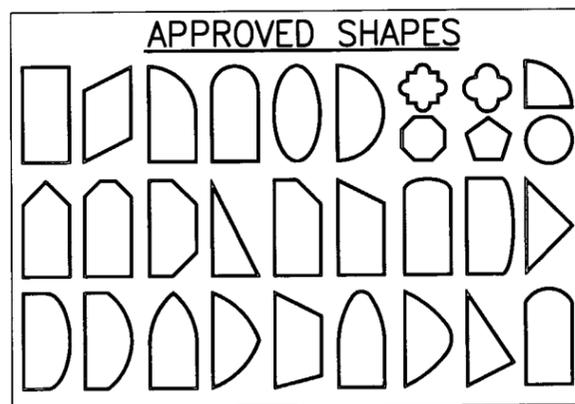
SCALE: 3/4" = 1'-0"

FOR ALLOWABLE DESIGN WIND PRESSURE ON
WINDOWS, SEE LOAD TABLES ON SHEET 3.

FRAME ANCHOR REQUIREMENTS TABLE			
* SHEAR SCREWS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 10 SMS SCREW	1 3/8"	3/4"
CMU/CONCRETE	(1) 3/16" CONCRETE SCREWS	1 1/4"	1 7/8"
FIN SCREWS			
2X_ WOOD FRAME OR BUCK	NO. 8 SMS SCREW	1 3/8"	3/4"

(1) CONCRETE SCREWS SHALL BE ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER. (HARDENED STEEL OR S.S.)

*** SHEAR SCREW ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS SPACER, OR ANCHORED TO A MIN. 2X4 NO. 3 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED TO A 2X4 BUCK, NO. 10 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 3/16" CONCRETE SCREWS SHALL BE USED. SEE "FRAME ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).**

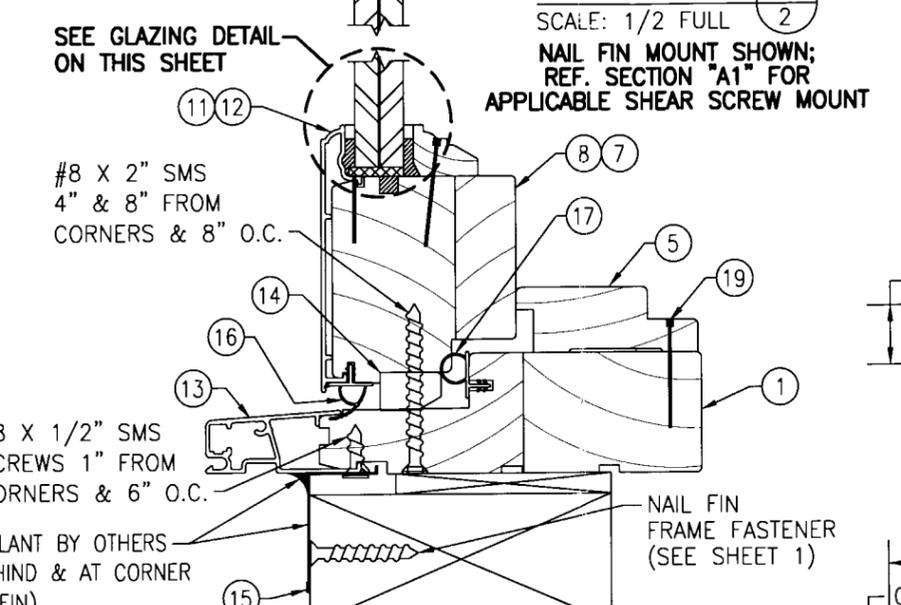
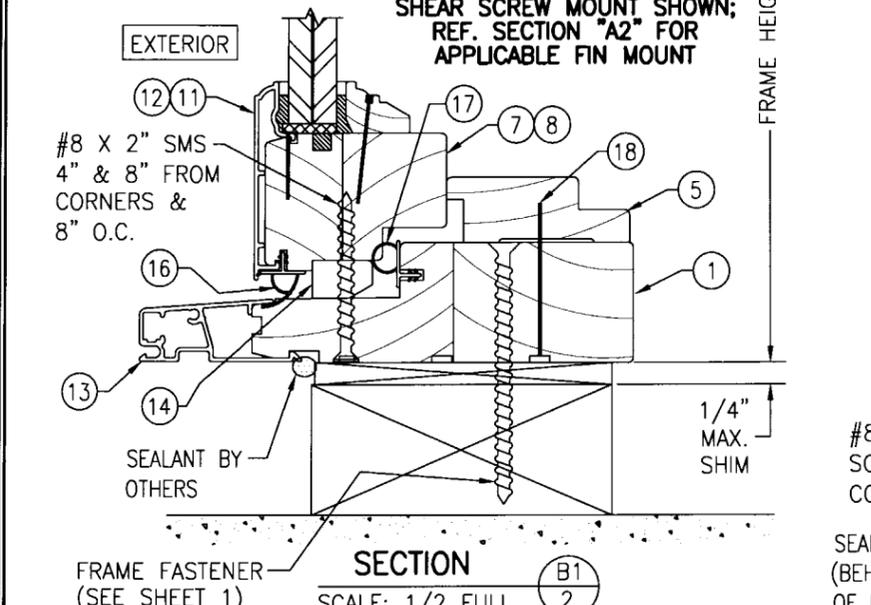
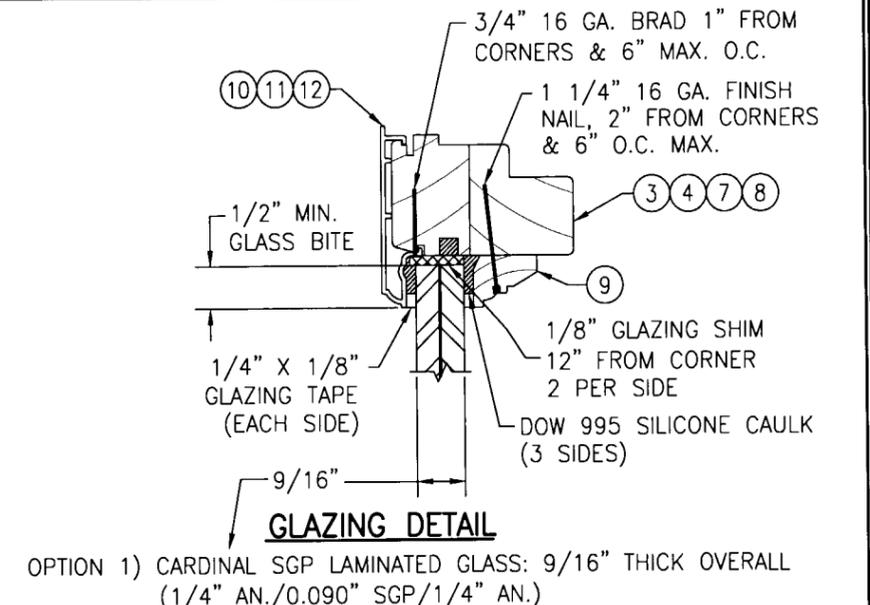
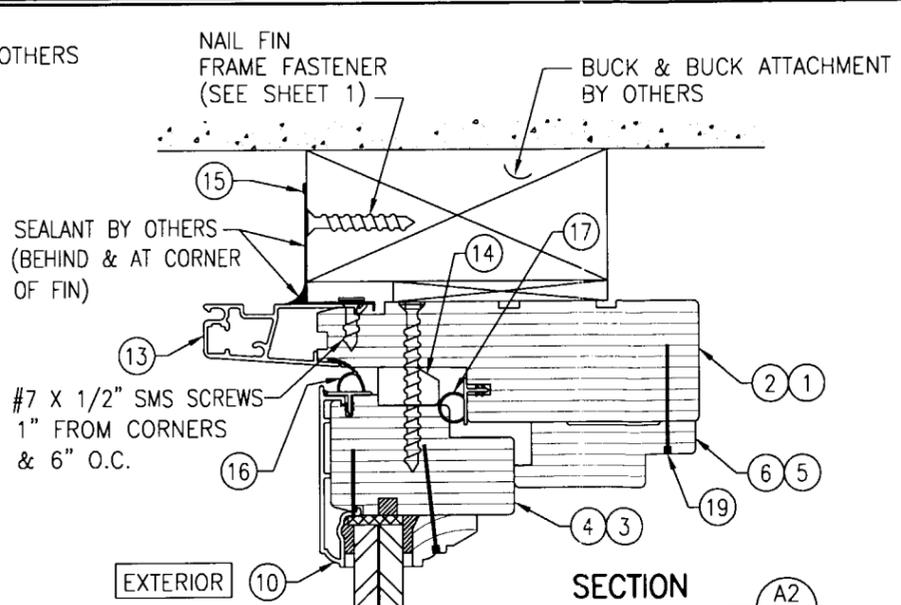
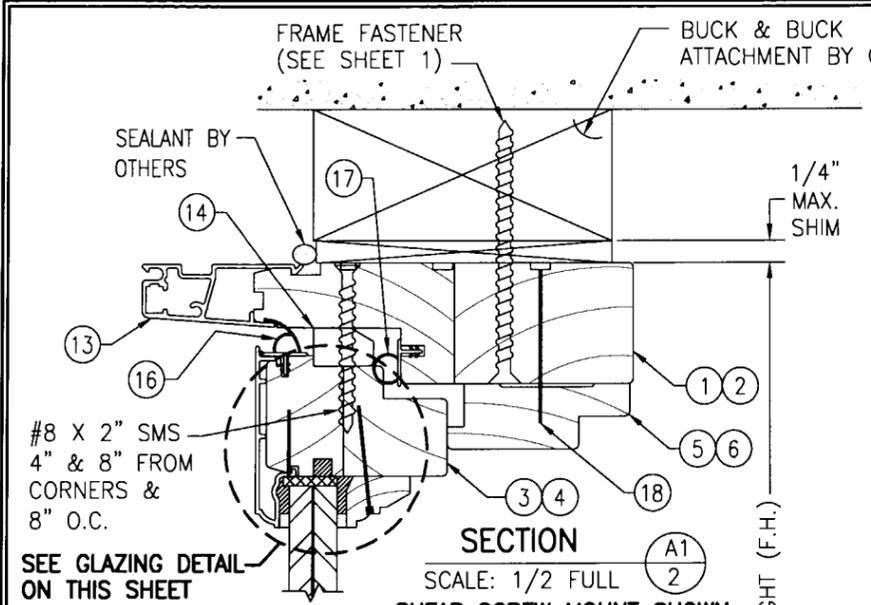


NOTES:

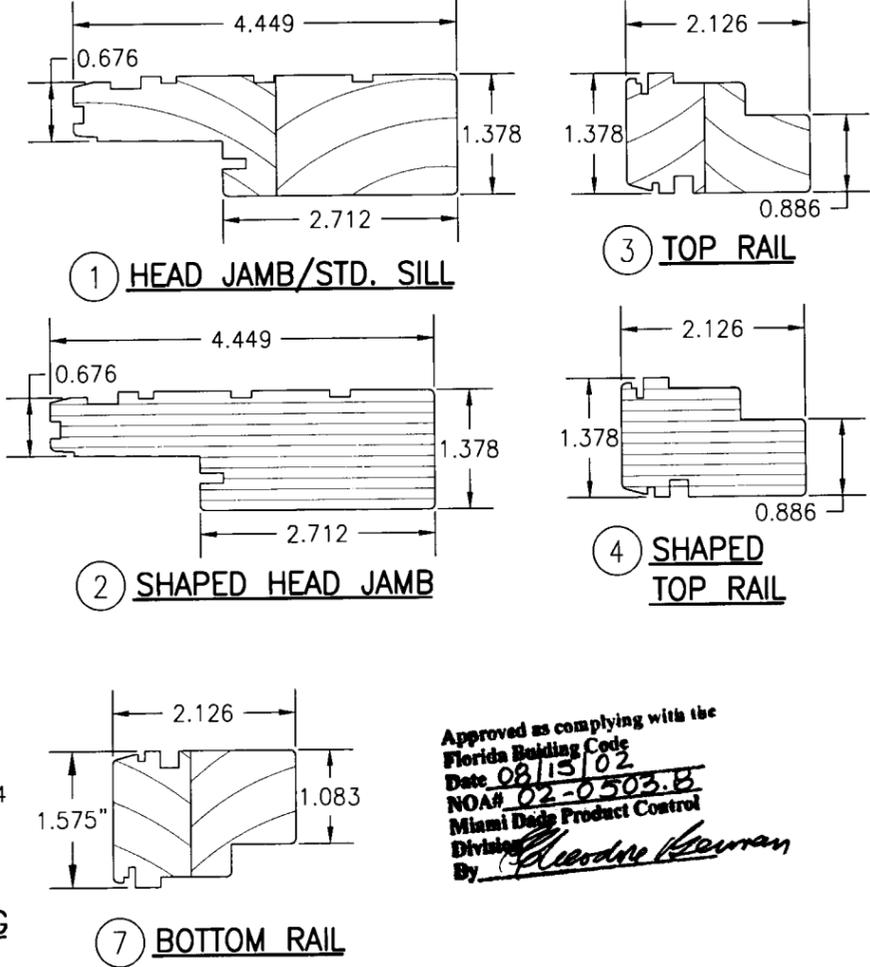
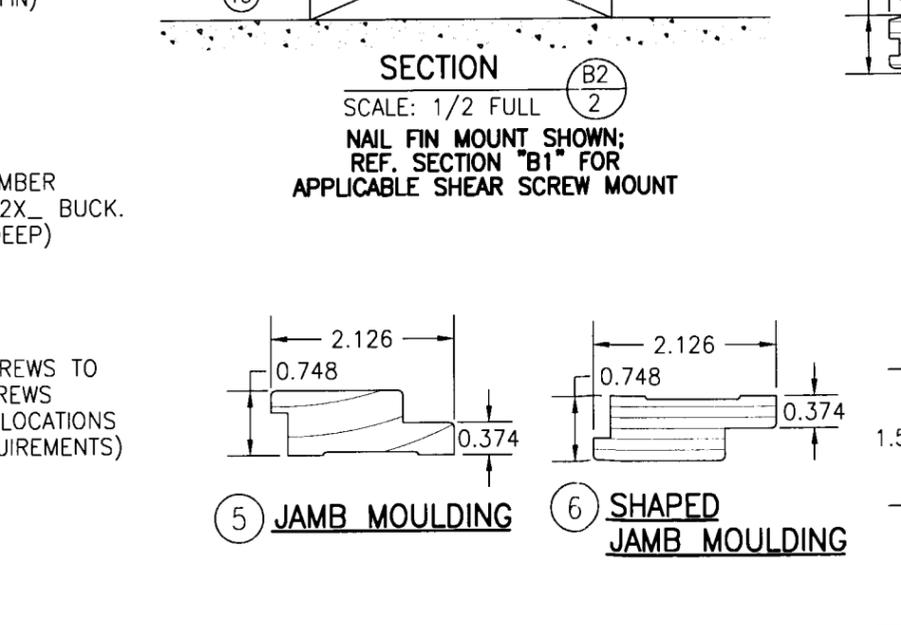
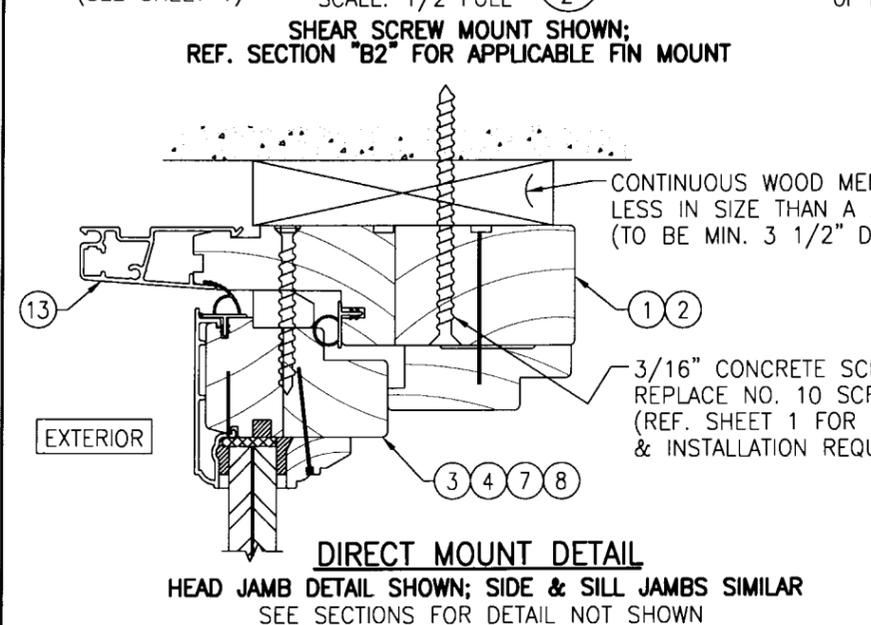
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 3) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.

Approved as complying with the
Florida Building Code
Date 08/15/02
NOA# 02-0503-08
Miami Dade Product Control
Division
By: *Warren W. Schaefer*

WARREN W. SCHAEFER, P.E.
P.E. NO. 44133

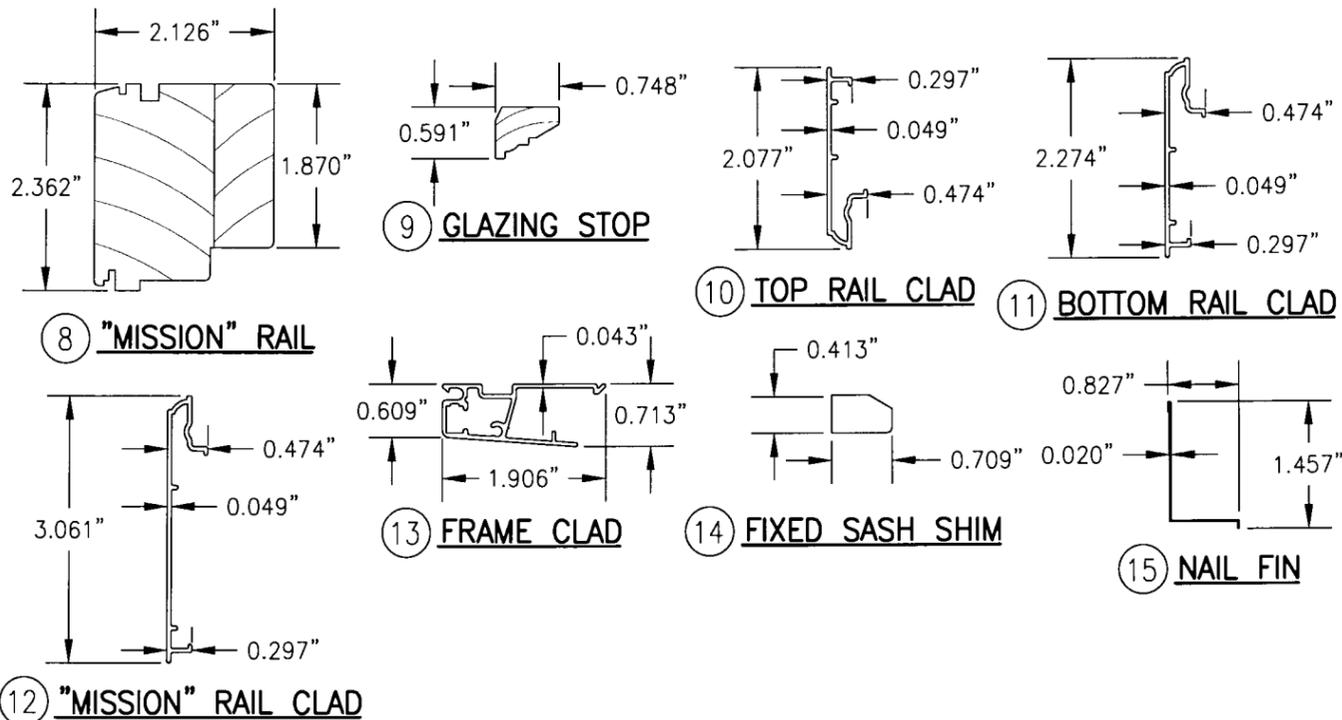


- GLAZING DETAIL**
- OPTION 1) CARDINAL SGP LAMINATED GLASS: 9/16" THICK OVERALL (1/4" AN./0.090" SGP/1/4" AN.)
 - OPTION 2) CARDINAL SGP LAMINATED GLASS: 9/16" THICK OVERALL (1/4" HT. ST./0.090" SGP/1/4" HT. ST.)
 - OPTION 3) CARDINAL SEA STORM TYPE "B" LAMINATED GLASS: 9/16" THICK OVERALL (1/4" AN./0.015" PVB/0.007 PET/0.075" PVB/1/4" AN.) OR (1/4" AN./0.045" PVB/0.007 PET/0.045" PVB/1/4" AN.)



Approved as complying with the Florida Building Code
 Date 08/15/02
 NOA# 02-0503.B
 Miami Dade Product Control
 By *Cleodre Keenan*

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 04/24/02
DATE	BY
REVISION DESCRIPTION	NO.
ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOWS MANUFACTURER C.P. LOEWEN ENTERPRISES 77 P.T.H. 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
CONSULTANTS W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION APR 26 2002 WARREN W. SCHAEFER, P.E. P.E. NO. 44133	
DRAWING NO. 1095	REV.
SHEET NO. 2	OF 3



ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	2824/2826	HEAD JAMB/STANDARD SILL (LINEAL MEMBER)	* WOOD
2	2824	HEAD JAMB (RADIAL MEMBER)	LVL
3	2806	TOP RAIL (LINEAL MEMBER)	* WOOD
4	2806	TOP RAIL (RADIAL MEMBER)	LVL
5	2834/2836	HEAD/SIDE JAMB MOULDING (LINEAL MEMBER)	* WOOD
6	2834	HEAD JAMB MOULDING (RADIAL MEMBER)	LVL
7	2808	STANDARD BOTTOM RAIL	* WOOD
8	2880	"MISSION" BOTTOM RAIL	* WOOD
9	4493	INTERIOR GLAZING STOP	* WOOD
10	2856	TOP RAIL CLAD	6060-T5 ALUMINUM
11	2858	BOTTOM RAIL CLAD	6060-T5 ALUMINUM
12	2886	"MISSION" BOTTOM RAIL CLAD	6060-T5 ALUMINUM
13	4930	FRAME CLAD	6060-T5 ALUMINUM
14	2894	FIXED SASH SHIM	* WOOD
15	4940	APPLIED NAILING FIN	STEEL (Fy = 50 ksi MIN.)
SEALS & SEALANTS			
16	2868	SASH WEATHERSTRIP	INTEK #50345
17	2866	FRAME WEATHERSTRIP	INTEK #30508A
FASTENERS			
18	-	1 3/4" X 16 GA. STAPLE	6" FROM CORNERS & 6" O.C.
19	-	1 1/4" FINISH NAIL	2" FROM CORNERS & 6" O.C.

* WOOD USED WITH TEST UNITS WAS GRADE 2 NORTHERN DOUGLAS FIR. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, OAK, CHERRY, MAPLE & CYPRUS.
 NOTE: ALL WOOD IS RECEIVED BY LOEWEN WINDOWS AS GRADE 2, BUT IS MACHINED BY LOEWEN TO A SELECT GRADE USE.

**ALLOWABLE DESIGN PRESSURE
WITH 9/16" ANNEALED SGP LAMINATED GLASS (1/2" GLASS)
(GLAZING OPTION 1)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.4	64.8		
54"	70.0	70.0	70.0	70.0	70.0	64.6	61.7	56.3			
60"	70.0	70.0	70.0	65.8	60.3	56.9	54.0				
63"	70.0	70.0	68.7	62.1	57.5	53.7	51.0				
66"		66.8	64.5	59.8	55.1	50.7					
72"			58.8	54.4							
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"

**ALLOWABLE DESIGN PRESSURE
WITH 9/16" HT. ST. SGP LAMINATED GLASS (1/2" GLASS)
(GLAZING OPTION 2)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		
54"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0			
60"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
63"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
66"		66.8	66.8	66.8	66.8	66.8					
72"			61.3	61.3							
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"	132"	144"

**ALLOWABLE DESIGN PRESSURE
WITH 9/16" ANNEALED SEASTORM LAMINATED GLASS
(GLAZING OPTION 3; 1/2" GLASS)**

(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)										
24"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
30"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0		
36"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0			
47.25"	70.0	70.0	70.0	70.0	70.0	70.0	70.0				
54"	61.3	61.3	61.3	61.3							
60"	55.1	55.1	55.1								
66"		50.1									
(1) LONG DIMENSION	60"	66"	72"	78"	84"	90"	94.5"	108"	120"		

TABLE NOTES:
 (1) ALL WINDOW DIMENSION VALUES SHOWN ARE +/- 3/4" & ARE FRAME (F.H. & F.W.) DIMENSIONS
 (2) THOSE SIZES WITH LOADS LISTED ARE MAXIMUM ALLOWABLE SIZES AT THAT LOAD. IF NO LOAD IS LISTED FOR A GIVEN SIZE, THAT SIZE EXCEEDS ALLOWABLE AND IS NOT ACCEPTABLE.

Approved as complying with the Florida Building Code
 Date 08/15/02
 NOA# 02-0303.0B
 Miami Dade Product Control
 Division
 By: *Eleonore Sperry*

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.	DATE: 04/24/02	DATE:
PLOT: 1-2			
DATE			
BY			
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DRAWING TITLE			
CERTIFICATION APR 26 2002			
DRAWING NO. 1095			
SHEET NO. 3 OF 3			