



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 Impact Outswing Casement Window

APPROVAL DOCUMENT: Drawing No. 1096, titled "Aluminum Clad Wood Impact Outswing Casement Window", sheets 1 through 6 of 6, dated 02/01/02, with revision "A" dated 09/11/03, prepared, signed and sealed by Warren Schaefer, P.E., 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.

This NOA revises NOA # 02-0308.08, and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

TMB
 11/4/2003



NOA No 03-0929.02
 Expiration Date: June 27, 2007
 Approval Date: November 27, 2002
 Page 1

C.P. Loewen Enterprises

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. 1096, titled "Aluminum Clad Wood Impact Outswing Casement Window", sheets 1 through 6 of 6, dated 02/01/02, with revision "A" dated 09/11/03, prepared, signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
 - 6) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum clad wood impact outswing casement window, prepared by Hurricane Test Laboratory, Inc., Test Report No. 0286-1222-01, dated 12/6/01, signed and sealed by Vinu Abraham, P.E. "**Submitted under NOA #02-0308.08**"

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by W.W Schaefer Engineering & Consulting, dated 2/12/02, signed and sealed by Warren Schaefer, P.E. "**Submitted under NOA #02-0308.08**"
2. Complies with ASTM-E1300-98

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 03-0417.01 issued to Cardinal LG for "Cardinal Sea-Storm Type B" dated 05/15/03, expiring on 12/30/07.

E. QUALITY ASSURANCE

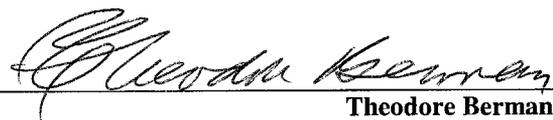
1. Miami-Dade County Building Code Compliance Office.

F. STATEMENTS

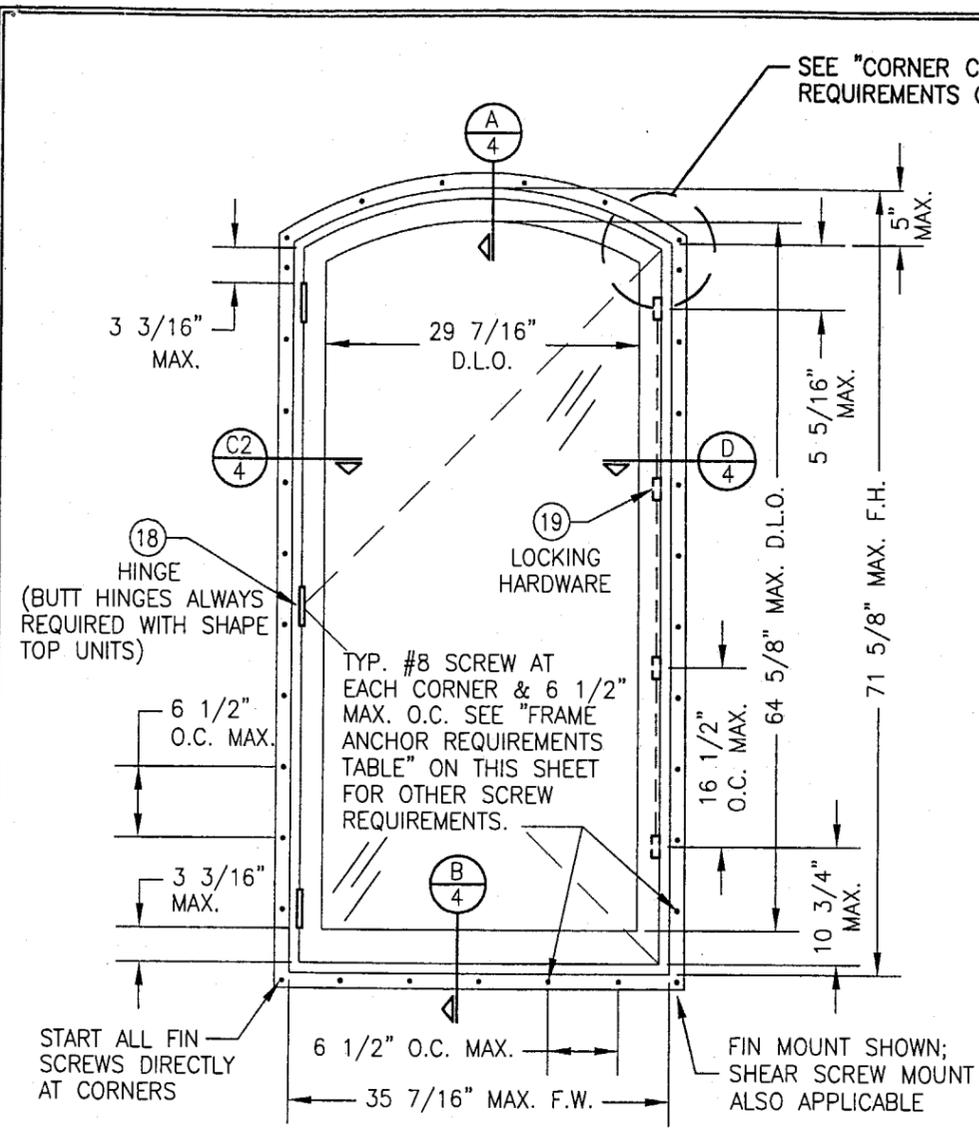
1. Statement letter of no financial interest, dated 2/14/02, signed and sealed by Warren Schaefer, P.E.

G. OTHER

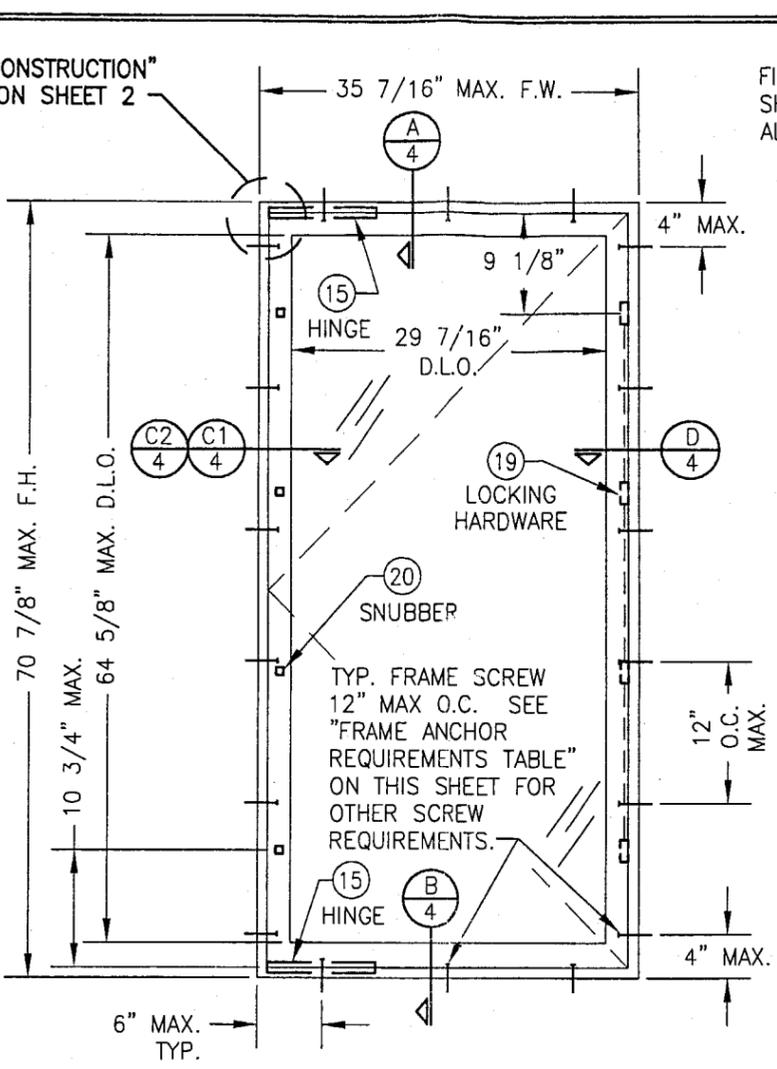
1. Letter from consultant stating that the product is in compliance with the Florida Building Code (FBC).



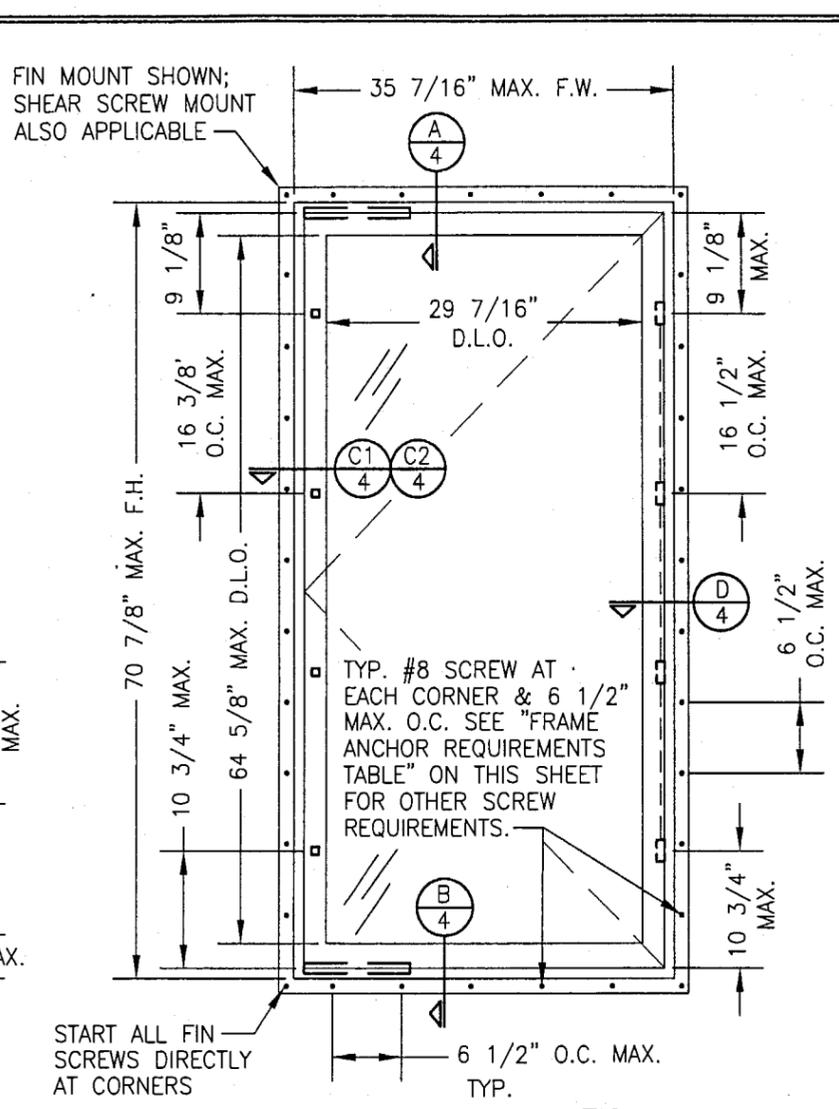
Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0929.02
Expiration Date: June 27, 2007
Approval Date: November 27, 2002



**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT**
SCALE: 3/4"=1'-0"
(NAIL FIN MOUNT SHOWN;
SEE OTHER ELEVATION FOR
APPLICABLE SHEAR SCREW MOUNT)



**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT**
SCALE: 3/4"=1'-0"
(SHEAR SCREW MOUNT)



**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT**
SCALE: 3/4"=1'-0"
(NAIL FIN MOUNT)

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 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.) FOR HIGH VELOCITY HURRICANE ZONE AREAS.
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.

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 1/4"	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"	1/2"

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

* ANCHOR NOTE: FRAME MAY BE EITHER DIRECT MOUNTED TO THE OPENING, MOUNTED ONTO A CONTINUOUS WOOD SPACER, OR ANCHORED TO A MIN. 2x4 NO. 2 SOUTHERN PINE WOOD BUCK. WHEN ANCHORED THROUGH JAMB TO A 2x4 BUCK, NO. 10 SCREWS SHALL BE USED. WHEN ANCHORED WITH A NAIL FIN INTO 2x4 BUCK, NO. 8 SCREWS SHALL BE USED. WHEN DIRECT MOUNTED OR MOUNTED WITH SPACER, 3/16" CONCRETE SCREWS SHALL BE USED. SEE "ANCHOR REQUIREMENTS TABLE" FOR EMBED REQUIREMENTS. PROPER MATERIAL SHALL BE USED BETWEEN ALL DISIMILAR MATERIALS (BLOCK/CONCRETE & ALUMINUM).

ALLOWABLE DESIGN LOAD	
POSITIVE	NEGATIVE
65 PSF	70 PSF

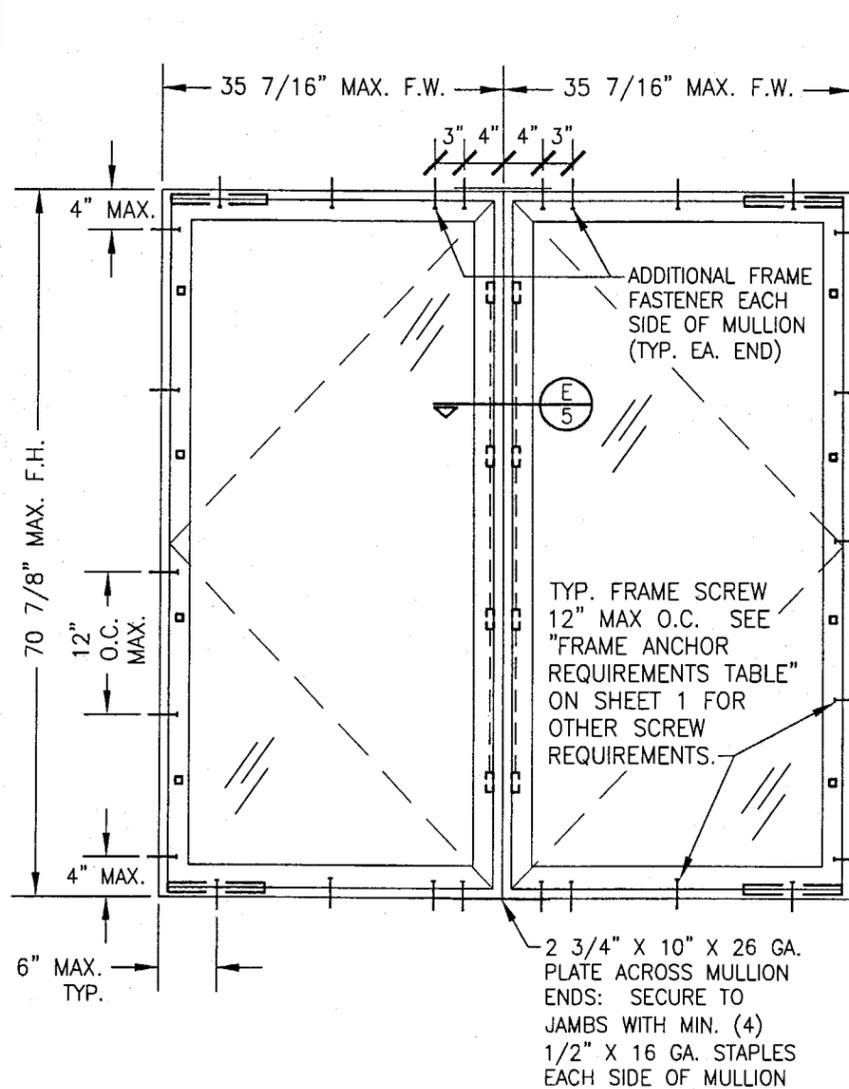
BUTT HINGE REQUIREMENT	
WINDOW HEIGHT	MIN. NUMBER OF HINGES
42" TO 72"	3
LESS THAN 42"	2

LOCK & SNUBBER REQUIREMENTS	
WINDOW HEIGHT	NUMBER OF TRUTH LOCKS AND TRUTH SNUBBERS REQUIRED
55" TO 72"	4
39" TO 54"	3
20" TO 38"	2
LESS THAN 19"	1

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 03-0929.02
Expiration Date 12/31/07

By: *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
DATE: 09/11/03	DATE: 02/01/02
BY: K.P.S.	BY: K.P.S.
REVISION DESCRIPTION: ADDED SHEET 6	REVISION DESCRIPTION: ADDED TRANSOM ELEVATIONS
NO. A1	NO. A2
NO. A3	NO. A4
<p>ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS</p> <p>MANUFACTURER C.P. LOEWEN ENTERPRISES 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446</p> <p>CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903</p>	
<p>CERTIFICATION SEP 19 2003</p> <p>WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p>	
DRAWING NO. 1096	REV. A
SHEET NO. 1 OF 6	

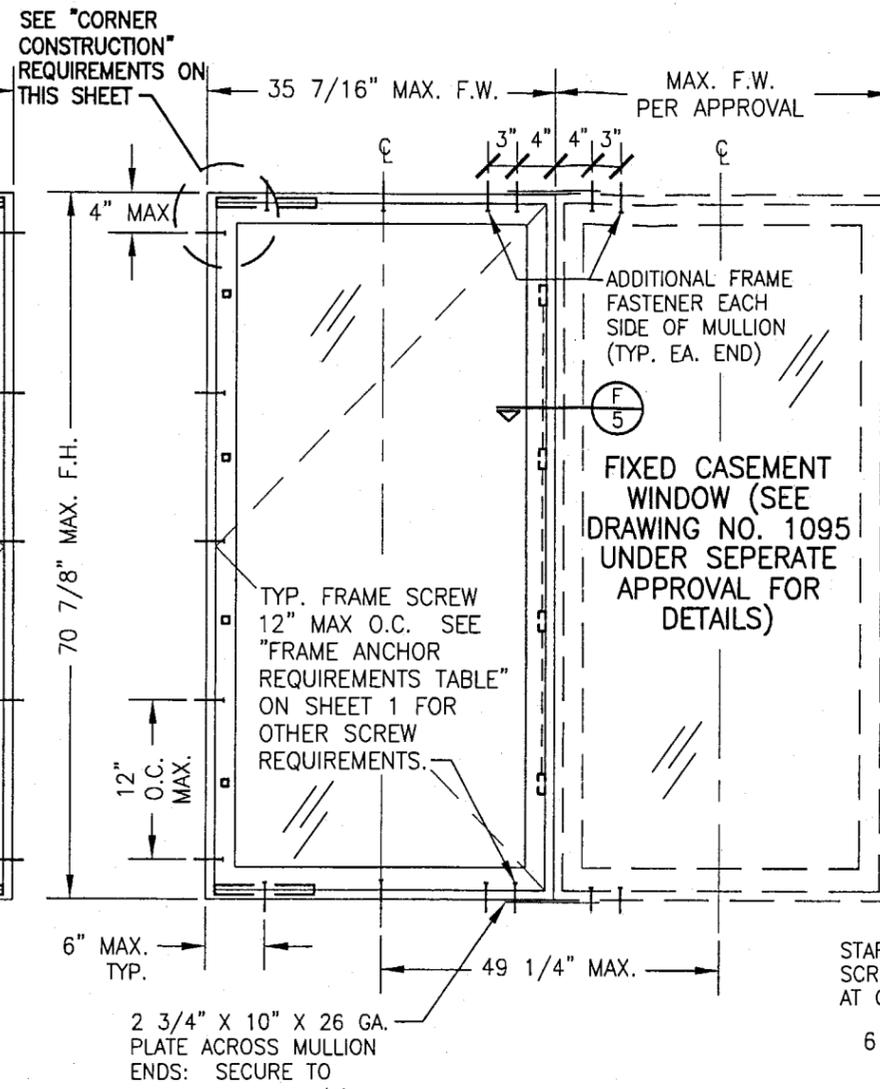


EXTERIOR ELEVATION
MULTIPLE OPERABLE CASEMENTS
 (MAX. FOUR WINDOWS MAY BE COMBINED)
 N.T.S.
 SHEAR SCREW MOUNT CONDITION SHOWN:
 SEE OPERABLE CASEMENT/PICTURE WINDOW
 ELEVATION FOR APPLICABLE FIN MOUNT CONDITION
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

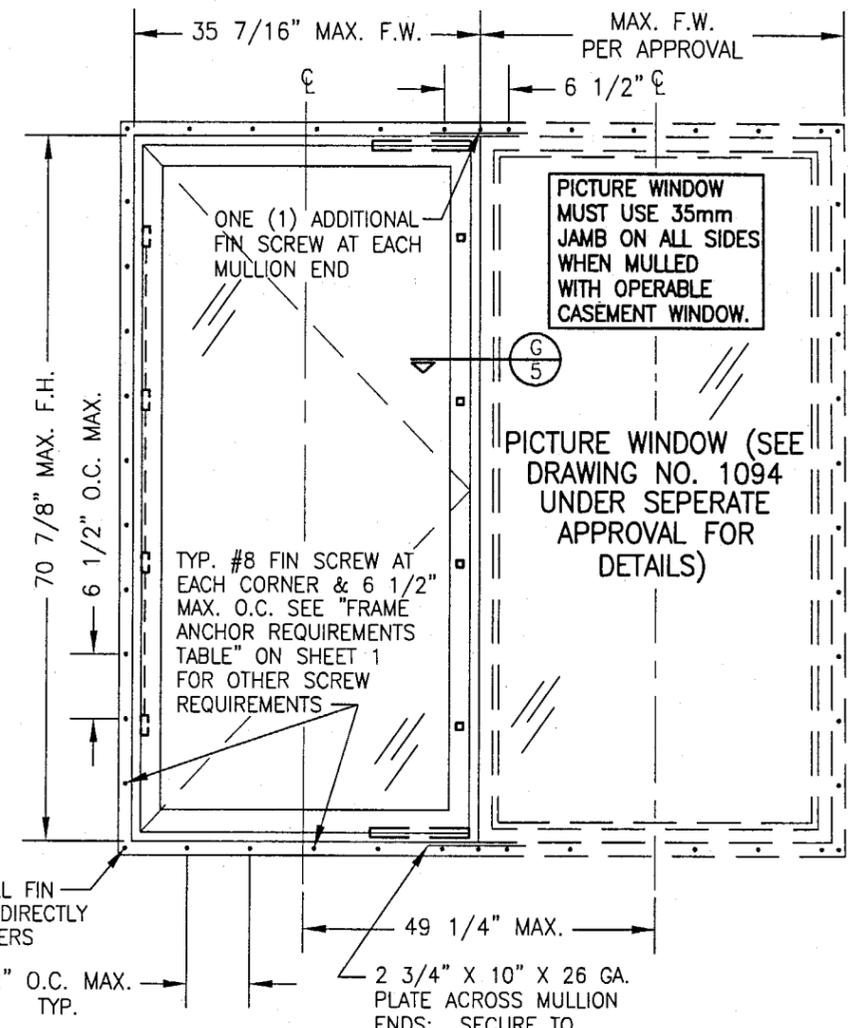
CORNER CONSTRUCTION:

SASH: WOOD MEMBERS ARE DOUBLE ENDED FOR TENON JOINT AND MECHANICALLY FASTENED USING TWO (2) 16 GA. 1 1/4" FINISH NAILS PER CORNER. 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. THE CLAD IS MITERED, GASKETED WITH A CLOSED CELL FOAM 1/16" THICK THEN BUTTED TOGETHER AND MECHANICALLY FASTENED USING ONE (1) #6 X 1 1/2" S.M.S. SCREW PER CORNER. TREMFLEX 834 IS THEN APPLIED TO THE CLAD SEAM.



EXTERIOR ELEVATION
MULTIPLE OPERABLE/FIXED CASEMENTS
 (MAX. FOUR WINDOWS MAY BE COMBINED)
 (ANY COMBINATION)
 N.T.S.
 SHEAR SCREW MOUNT CONDITION SHOWN:
 SEE OPERABLE CASEMENT/PICTURE WINDOW
 ELEVATION FOR APPLICABLE FIN MOUNT CONDITION
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)



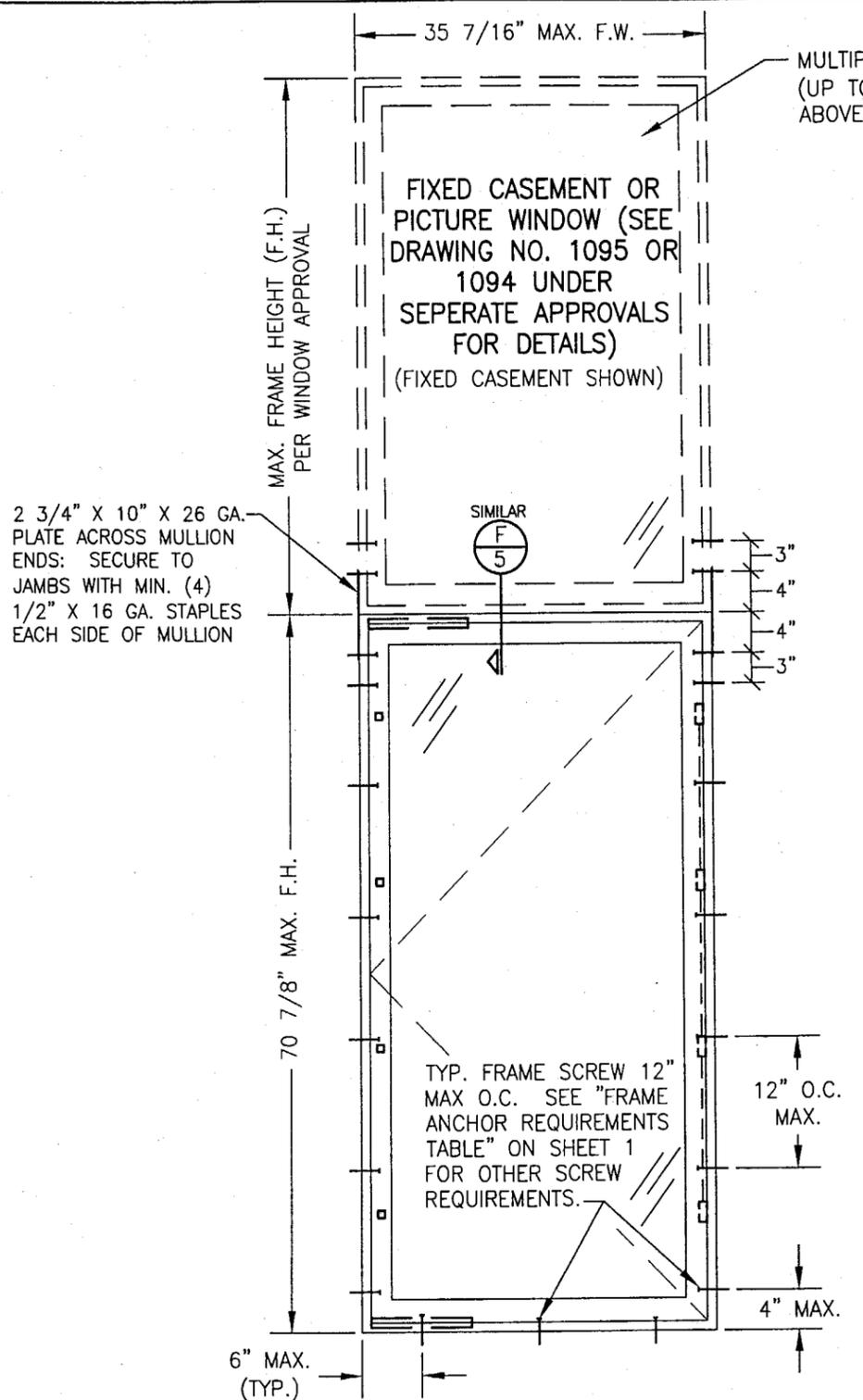
EXTERIOR ELEVATION
MULTIPLE OPERABLE CASEMENTS/PICTURE WINDOWS
 (MAX. FOUR WINDOWS MAY BE COMBINED)
 (ANY COMBINATION)
 N.T.S.
 FIN MOUNT CONDITION SHOWN:
 SEE OPERABLE/FIXED CASEMENT
 ELEVATION FOR APPLICABLE SHEAR
 SCREW MOUNT CONDITION
 (FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 03-0929.02
 Expiration Date 06/23/07

By *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 02/01/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING 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. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
DRAWING NO. 1096			
SHEET NO. 2 OF 6			
REV. A			

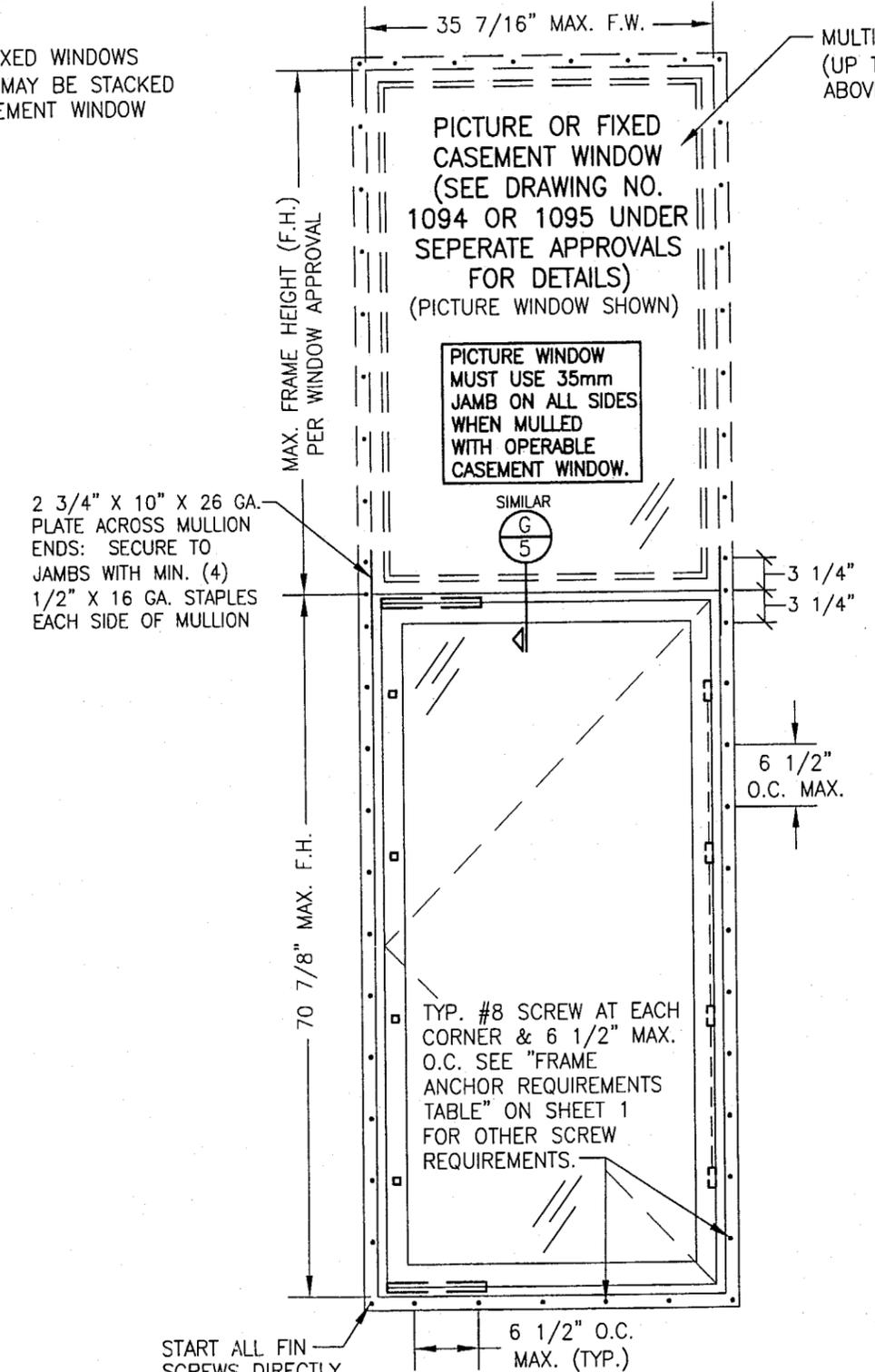
CERTIFICATION
 SEP 19 2003
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44133



**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT WITH TRANSOM**

SCALE: 3/4"=1'-0"
(SHEAR SCREW MOUNT)

SHEAR SCREW MOUNT CONDITION SHOWN:
SEE OTHER TRANSOM UNIT ELEVATION FOR
APPLICABLE FIN MOUNT CONDITION
(FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)



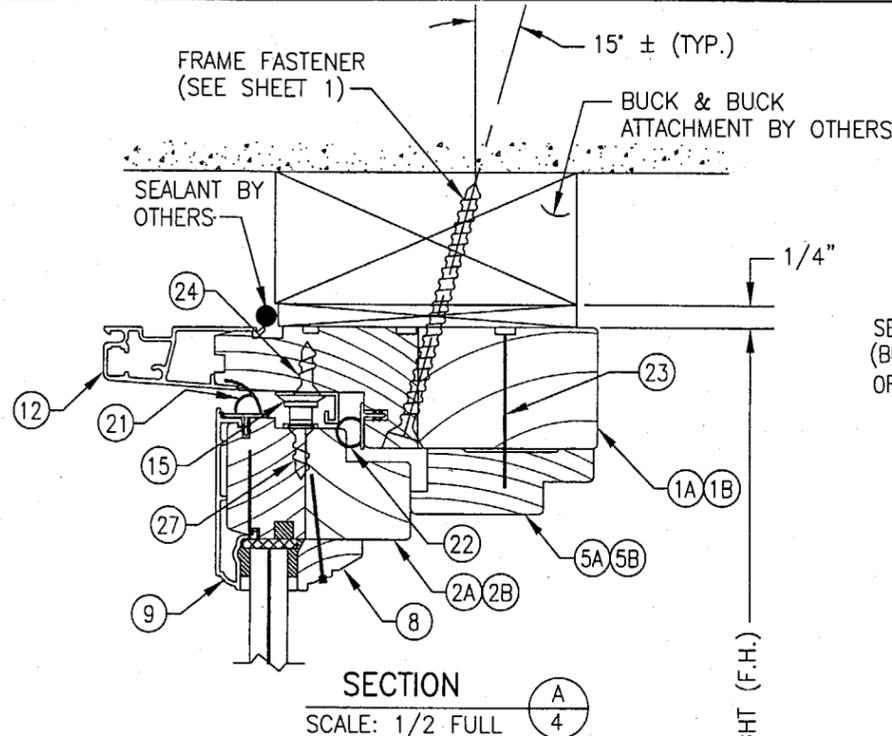
**EXTERIOR ELEVATION
SINGLE OPERABLE CASEMENT WITH TRANSOM**

SCALE: 3/4"=1'-0"
(NAIL FIN MOUNT)

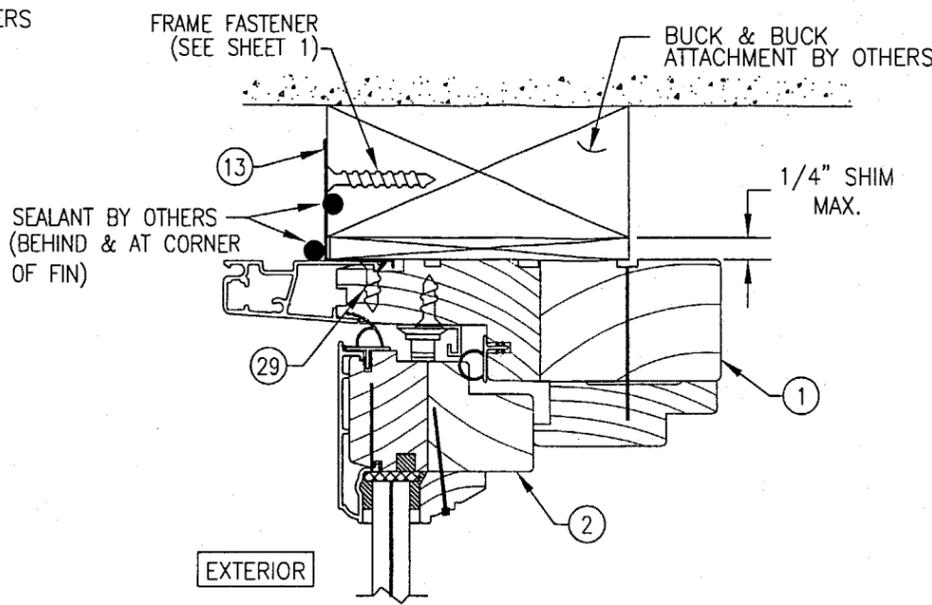
FIN MOUNT CONDITION SHOWN: SEE OTHER
TRANSOM UNIT ELEVATION FOR APPLICABLE
SHEAR SCREW MOUNT CONDITION
(FOR DETAIL NOT SHOWN SEE ELEVATIONS ON SHEET 1)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0929-02
Expiration Date 06/23/07
By *Clayton Berman*
Miami Dade Product Control
Division

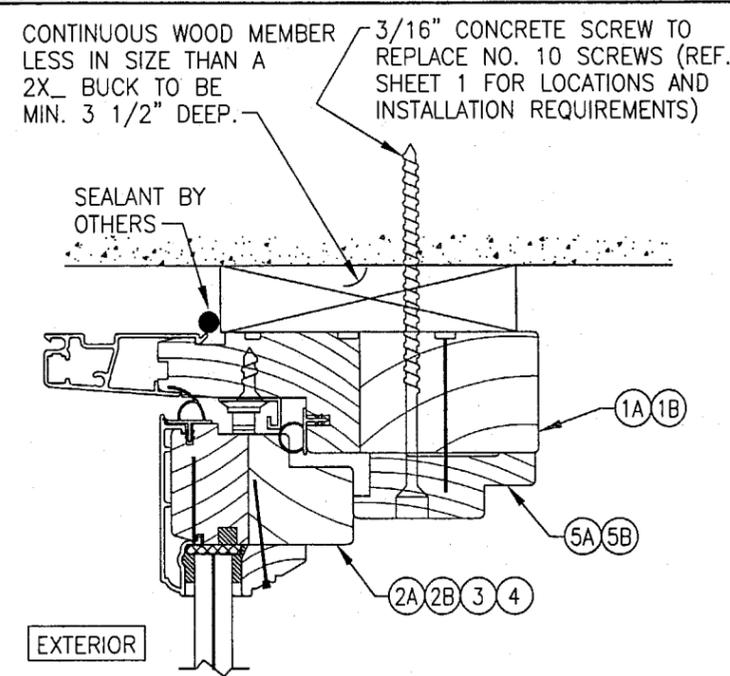
DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 02/01/02	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER C.P. LOEWEN ENTERPRISES	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		77 P.T.H. 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446	
CERTIFICATION SEP 19 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1096		REV. A	
SHEET NO. 3 OF 6			



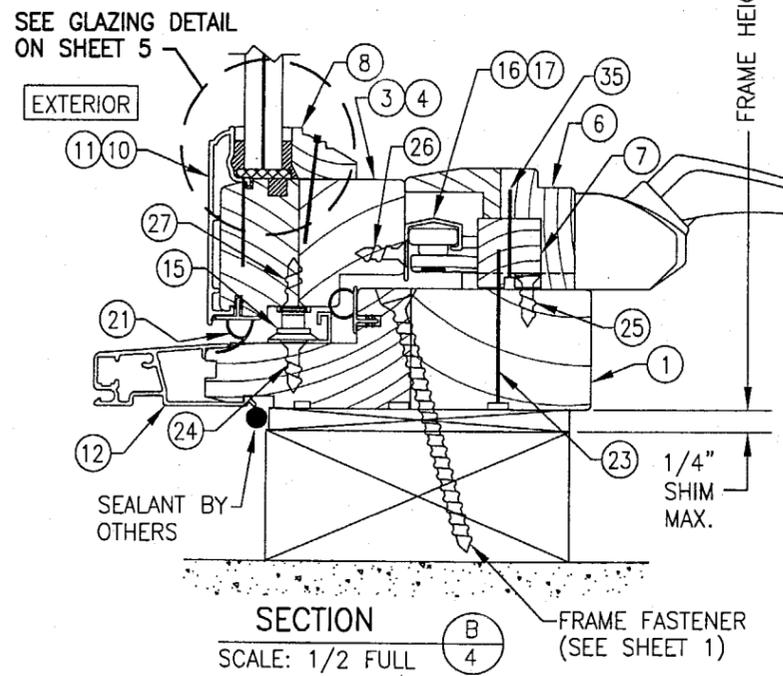
SECTION A
SCALE: 1/2 FULL



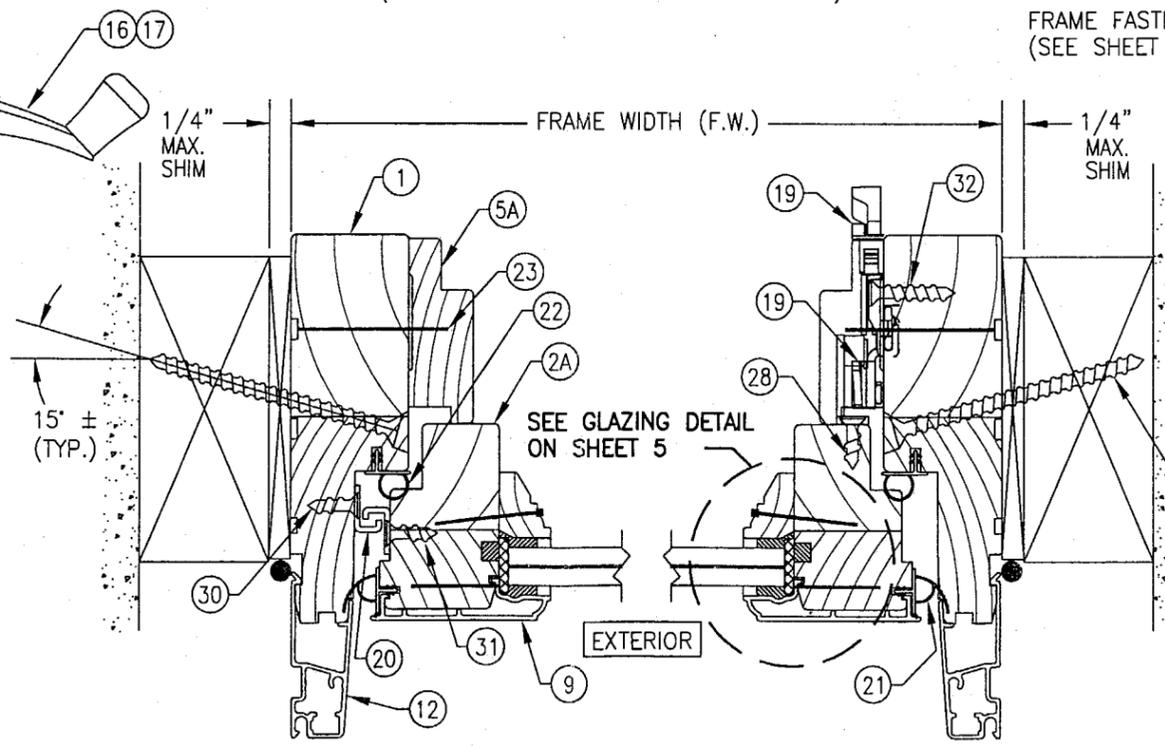
OPTIONAL FIN MOUNT DETAIL
HEAD DETAIL SHOWN; SIDES AND SILL SIMILAR
(SEE SECTIONS FOR DETAIL NOT SHOWN)



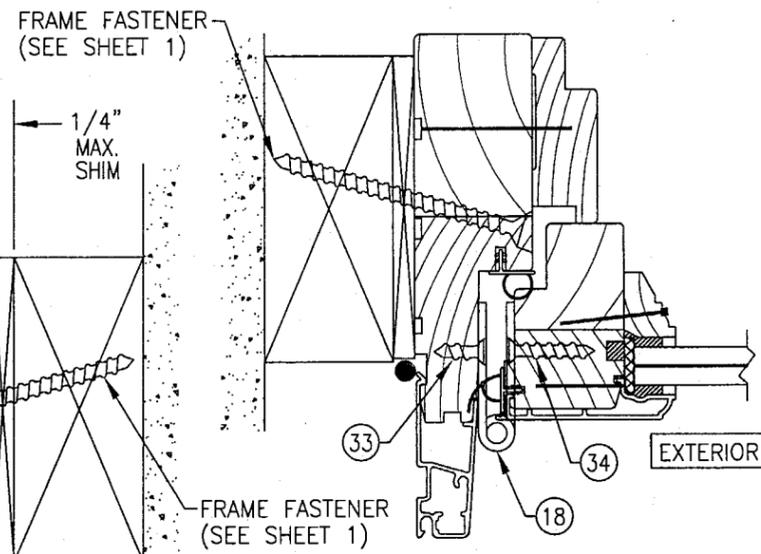
DIRECT MOUNT DETAIL
HEAD DETAIL SHOWN; OTHER JAMBS SIMILAR
(SEE SECTIONS FOR DETAIL NOT SHOWN)



SECTION B
SCALE: 1/2 FULL



SECTION C1
SCALE: 1/2 FULL



SECTION C2
SCALE: 1/2 FULL
(SAME AS SECTION C1; WITH BUTT HINGE)
(SEE SECTION "C1" FOR DETAIL NOT SHOWN)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0929.02
Expiration Date 06/23/07
By *Warren W. Schaefer*
Miami Dade Product Control
Division

DRAWN BY: J.C.F.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 02/01/02	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUTSWING 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. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33416 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION	SEP 19 2003	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO.	REV.		
1096	A		
SHEET NO. 4 OF 6			

DOW CORNING 995
STRUCTURAL SILICONE SEALANT
CONTINUOUS BEAD (ALL AROUND)

1/8" SHIM 12"
FROM CORNERS
2 PER SIDE

EXTERIOR

1/2"
MIN. BITE

18 GA. X 3/4" BRAD
1" FROM CORNERS & 6" O.C.

9 10 11

7/16"
1/4" X 1/8" GLAZING TAPE
CONTINUOUS EACH SIDE

INTERIOR

16 GA. X 1 1/4" FINISH NAIL
1" FROM CORNERS & 6" O.C.

GLAZING DETAIL

7/16" CARDINAL SEASTORM TYPE "B" LAMINATED GLASS
(3/16" AN/0.015 PVB/0.007 PET/0.075 PVB/3/16" AN)

MULLION SEAM COVER
AS REQUIRED

MAY OPTION TO USE
NO. 10 X 2.5"
SCREWS (IN LIEU OF
CORRUGATED
FASTENERS) 4" FROM
ENDS & 12" O.C. AT
EACH JAMB (MAY
STAGGER EACH SIDE)

ACTIVE

SEALANT BY
OTHERS

1/2" X 1" CORRUGATED
FASTENER 4" OFF ENDS &
MAX. 6" O.C.

EXTERIOR

CONTINUOUS Ø4mm BEAD
SCHNEE-MOREHEAD 7100
SILICONE SEALANT

SILICONE SEALANT
APPLIED PRIOR TO
MILLION COVER

SECTION

SCALE: 1/2 FULL

(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)

SEALANT BY
OTHERS

MULLION SEAM COVER
AS REQUIRED

1/2" X 1" CORRUGATED
FASTENER 4" OFF ENDS &
MAX. 6" O.C.

MAY OPTION TO USE
NO. 10 X 2.5"
SCREWS (IN LIEU OF
CORRUGATED
FASTENERS) 4" FROM
ENDS & 12" O.C. AT
EACH JAMB (MAY
STAGGER EACH SIDE)

STATIONARY WINDOW
SECTION (REF. OTHER
APPROVAL)

PICTURE WINDOW
MUST USE 35mm
JAMB ON ALL SIDES
WHEN MULLED
WITH OPERABLE
CASEMENT WINDOW.

ACTIVE

EXTERIOR

CONTINUOUS Ø4mm BEAD
SCHNEE-MOREHEAD 7100
SILICONE SEALANT

SILICONE SEALANT
APPLIED PRIOR TO
MILLION COVER

SECTION

SCALE: 1/2 FULL

(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)

MAY OPTION TO USE
NO. 10 X 2.5"
SCREWS (IN LIEU OF
CORRUGATED
FASTENERS) 4" FROM
ENDS & 12" O.C. AT
EACH JAMB (MAY
STAGGER EACH SIDE)

ACTIVE

EXTERIOR

CONTINUOUS Ø4mm BEAD
SCHNEE-MOREHEAD 7100
SILICONE SEALANT

SILICONE SEALANT
APPLIED PRIOR TO
MILLION COVER

SECTION

SCALE: 1/2 FULL

(SEE JAMB SECTIONS FOR DETAIL NOT SHOWN)

SEALANT BY
OTHERS

MULLION SEAM COVER
AS REQUIRED

1/2" X 1" CORRUGATED
FASTENER 4" OFF ENDS &
MAX. 6" O.C.

STATIONARY WINDOW
SECTION (REF. OTHER
APPROVAL)

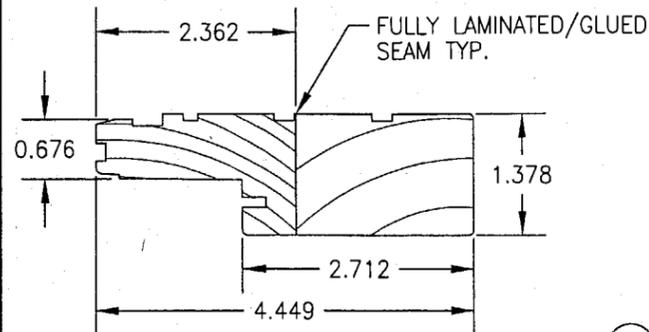
PICTURE WINDOW
MUST USE 35mm
JAMB ON ALL SIDES
WHEN MULLED
WITH OPERABLE
CASEMENT WINDOW.

FIXED

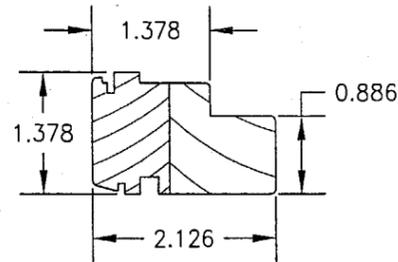
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0929.02
Expiration Date 06/27/07

By *Warren W. Schaefer*
Miami Dade Product Control
Division

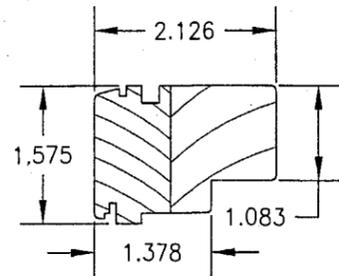
DRAWING BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 02/01/02
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING CASEMENT WINDOWS	
MANUFACTURER	C.P. LOEWEN ENTERPRISES 77 P.T.H 52 WEST, BOX 2260 STEINBACH, MB CANADA ROA 2A0 204-326-6446
CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903
CERTIFICATION	SEP 19 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.
1096	A
SHEET NO.	
5	OF 6



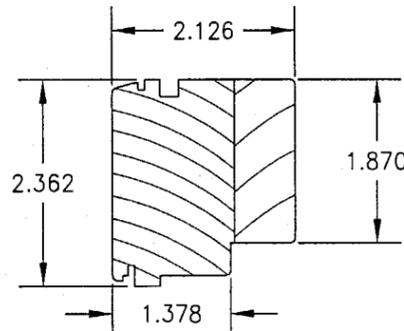
1A 1B HEAD JAMB/STD. SILL



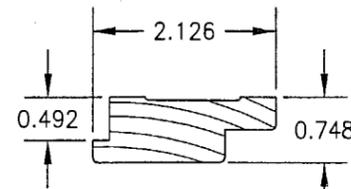
2A 2B TOP RAIL/STILE/'MISSION' STILE



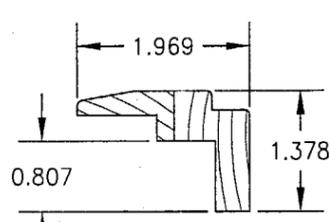
3 BOTTOM RAIL



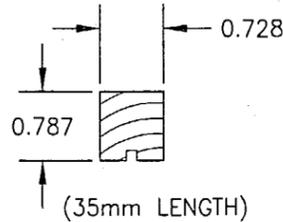
4 MISSION BOTTOM RAIL



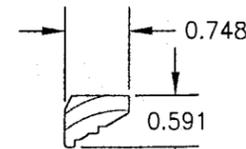
5A 5B HEAD/SIDE JAMB MOULDING



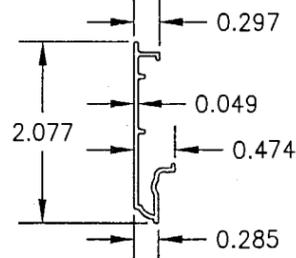
6 SILL COVER



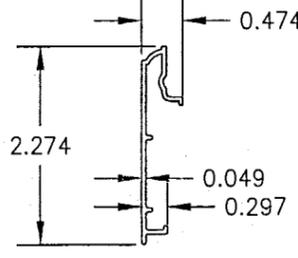
7 SILL BLOCK



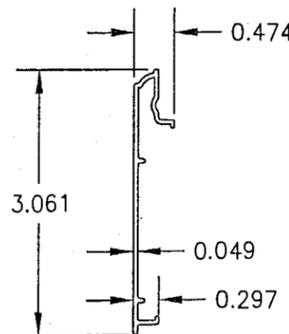
8 INT. GLAZING STOP



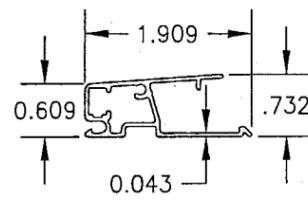
9 TOP RAIL/STILE CLAD



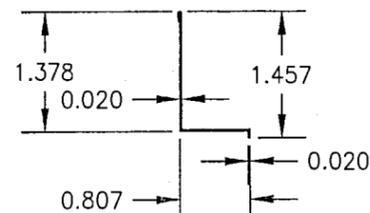
10 BOT. RAIL CLAD



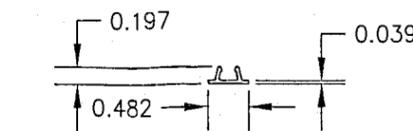
11 'MISSION' RAIL CLAD



12 FRAME CLAD



13 NAILING FIN



14 EXT. MULLION COVER

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	2824/2826	HEAD JAMB/STANDARD SILL (STRAIGHT MEMBER)	DOUGLAS FIR
1B	2824	HEAD JAMB (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
2A	2806/2810/2878	TOP RAIL/STILE/'MISSION' STILE (STRAIGHT MEMBER)	DOUGLAS FIR
2B	2806	TOP RAIL (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
3	2808	BOTTOM RAIL	DOUGLAS FIR
4	2880	'MISSION' BOTTOM RAIL	DOUGLAS FIR
5A	2834/2836	HEAD/SIDE MOULDING (STRAIGHT MEMBER)	DOUGLAS FIR
5B	2834	HEAD MOULDING (RADIAL MEMBER)	DOUGLAS FIR (LAMINATED)
6	2838	SILL COVER	DOUGLAS FIR
7	2862	SILL BLOCK	DOUGLAS FIR; 2 PER SILL
8	4493	INTERIOR GLAZING STOP	DOUGLAS FIR
9	2856/2860/2888	TOP RAIL/STILE/'MISSION' STILE CLAD	6060-T5 ALUMINUM
10	2858	BOTTOM RAIL CLAD	6060-T5 ALUMINUM
11	2886	'MISSION' BOTTOM RAIL CLAD	6060-T5 ALUMINUM
12	4930	JAMB CLAD	6060-T5 ALUMINUM
13	4940	APPLIED NAILING FIN	STEEL (Fy = 50 ksi MIN.)
14	4950	EXTERIOR MULLION COVER	6060-T5 ALUMINUM
HARDWARE			
15	-	10" SCISSOR HINGE	TRUTH HW: #14.75
16	-	DUAL ARM OPERATOR; MAXIM	TRUTH HW: # 50-00
17	-	SINGLE ARM OPERATOR	TRUTH HW: # 15-94
18	-	3 1/2" BUTT HINGE (S.S)	DIVERSIFIED PRODUCTS OF CANADA D.P.O.C. # DP3535R14C32DN
19	-	MAX. 4-POINT MIRAGE LOCK/KEEPER	TRUTH HW: KEEPER #11498
20	-	SNUBBER	TRUTH HW: #21642-92
SEALS & SEALANTS			
21	-	SASH WEATHER STRIP (VINYL)	INTEK #50345
22	-	FRAME WEATHERSTRIP (VINYL)	INTEK #30508A
FASTENERS			
23	-	1 3/4" 16 GA. STAPLE	6" FROM CORNER & 6" O.C.
24	-	NO. 7 X 3/4" SCREW	4 PER HINGE INTO JAMB
25	-	NO. 7 X 3/4" SCREW	3 PER OPERATOR TRACK
26	-	NO. 7 X 3/4" SCREW	2 PER OPERATOR GUIDE BRACKET
27	-	NO. 7 X 3/4" SCREW	4 PER HINGE INTO SASH
28	-	NO. 7 X 3/4" SCREW	2 PER LOCK/KEEPER
29	-	NO. 7 X 1/2" SCREW (NAIL FIN TO JAMB)	1" FROM CORNER & 6" O.C.
30	-	NO. 6 X 3/4" SCREW	2 PER SNUBBER TO JAMB
31	-	NO. 6 X 3/4" SCREW	2 PER SNUBBER TO SASH
32	-	NO. 6 X 1" SCREW	AS REQ'D FOR MULTIPOINT LOCK
33	-	NO. 8 X 3/4" SCREW	3 PER HINGE INTO JAMB
34	-	NO. 8 X 1" SCREW	3 PER HINGE INTO SASH
35	-	1" BRAD	1 PER BLOCK

* 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.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0929.02
Expiration Date 06/23/07

By *Warren W. Schaeffer*
Miami Dade Product Control
Division

DRAWN BY: J.C.F.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 02/01/02
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUTSWING 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. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION SEP 19 2007 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1096	REV. A
SHEET NO. 6 OF 6	