



**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION**
11805 SW 26th Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

**Kawneer Company, Inc.
555 Guthridge Court
Norcross, Georgia 30092**

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 Section 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 Section (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 Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350IR" Outswing Wet Glazed Aluminum Storefront Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1460, titled "350IR Outswing Aluminum Storefront Doors – L.M.I. Wet Glazed", sheets 1 thru 10 of 10, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 11/10/2005 and latest revision "D1" dated 02/11/2011, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LIMITATIONS: See design pressure limitations on sheet 4 of 10, where the lower design pressure of all applicable tables shall control.

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

REVISION 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 **renews and revises** NOA No. 09-0930.11 and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.
The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
3/31/11

NOA No. 11-0228.04
Expiration Date: February 08, 2017
Approval Date: April 7, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1460**, titled "350IR Outswing Aluminum Storefront Doors- L.M.I. Wet Glazed", sheets 1 thru 10 of 10, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 11/10/2005 and latest revision "D1" dated 02/11/2011, signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0804-10**, dated 10/26/10, signed and sealed by Vinu J. Abraham, P. E.
2. Test reports on: 1) ASTM D412C Tensile Test 30HRS passed 1340 PSI and 1200PSI;
2) ASTM D395B Compression Set 22 HRS with 100°C passed 24.8% ≤ 30%;
3) ASTM D2240 Shore A Hardness passed 70A ≤ 70 (±5) durometer;
4) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100 pphm NO Cracks;
5) ASTM D573 Heat Resistance 70 HR/ 100°C passed:
Tensile -1% ≤ 15%, Elongation -37% ≤ 40%, Hardness 6 ≤ 10 and 7PSI ≤ 10PSI;
6) ASTM D925 Migration Staining 7 day's exposure passed None Migration;
7) ASTM D624C Tear Test passed 135 pli ≥ 100 pli;
along with marked-up drawings and installation diagram of neoprene's wedge, sponge and setting block by Tremco, Inc., prepared by Excel Polymers, LLC (A2LA No. 0121.01), Test Report No. **EP 67286**, dated February 16, 2009, signed by John Quinn.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
4) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0201-09**, dated 07/01/09, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No.09-0930.11)



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-0228.04
Expiration Date: February 08, 2017
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0310-08**, dated 09/23/08, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No.09-0930.11)

5. 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-1005-06**, dated 01/31/07 respectively, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 07-0416.02)

6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Report No. **HTL-G049-0111-06**, dated 01/17-20/06 respectively, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No. 07-0416.02)

7. 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) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawings and installation diagram of aluminum outswing door and outswing door w/ storefront/ curtain wall system, prepared by Hurricane Testing Laboratory, LLC, Test Reports No.'s **HTL-G049-1201-05**, dated 12/05/05-01/24/06 respectively, signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No.06-0803.05)



Jaime D. Gaseon, P. E.
Product Control Section Supervisor
NOA No. 11-0228.04
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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated March 21, 2011, prepared, signed and sealed by Warren W. Schaefer, P. E.
Complies with ASTM E1300-02/ 04

D. QUALITY ASSURANCE

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **10-0413.04** issued to E. I. DuPont DeNemours and Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/2010, expiring on 01/14/12.
2. Notice of Acceptance No. **10-0922.09** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
3. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
4. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.

F. STATEMENTS

1. Statement letter of conformance and compliance with the FBC-2007, dated February 14, 2011, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independent, dated February 14, 2011, signed and sealed by Warren W. Schaefer, P. E.
3. Laboratory compliance letter for Test Report No. **HTL-G049-0804-10**, issued by Hurricane Test Laboratory, LLC, dated 10/26/10, signed and sealed by Vinu J. Abraham, P. E.
4. Laboratory compliance letter for Test Report No. **EP-67286**, issued by Excel Polymers, LLC (A2LA No. 0121.01), dated 07/01/09, dated February 16, 2009, signed by John Quinn.
5. Laboratory compliance letter for Test Report No. **HTL-G049-0201-09**, issued by Hurricane Test Laboratory, LLC, dated 07/01/09, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)
6. Laboratory addendum letter for Test Report No. **HTL-G049-0201-09**, issued by Hurricane Test Laboratory, LLC, dated 02/02/09, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.09-0930.11)
7. Laboratory addendum letter for Test Report No. **HTL-G049-0310-08**, issued by Hurricane Test Laboratory, LLC, dated 06/07/07, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0930.11)


Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-0228.04
Expiration Date: February 08, 2017
Approval Date: April 7, 2011

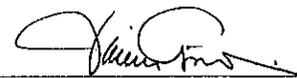
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

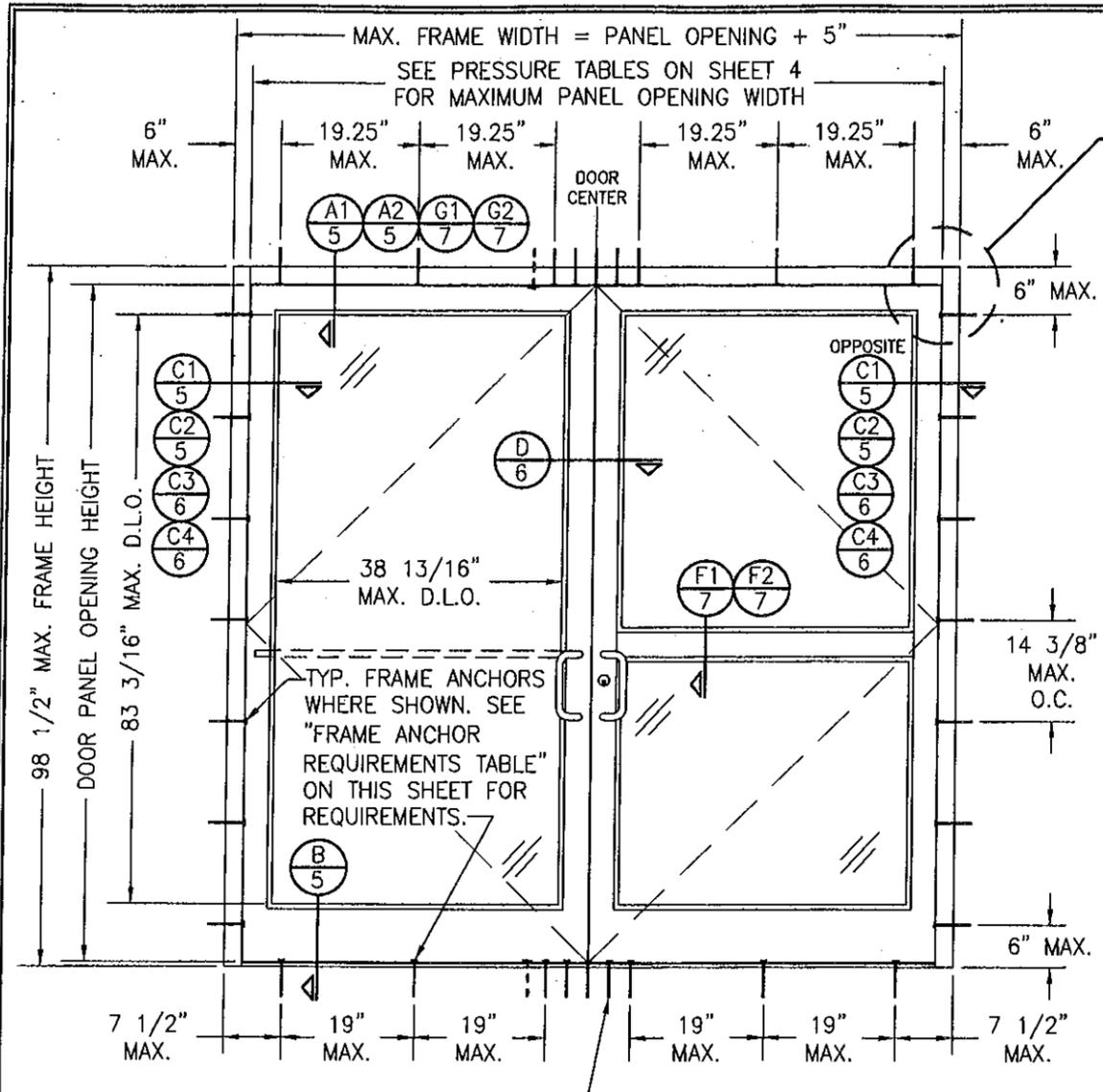
8. Laboratory compliance letter for Test Report No. **HTL-G049-0310-08**, issued by Hurricane Test Laboratory, LLC, dated 09/23/08, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 09-0930.11)
9. Laboratory addendum letter for Test Report No. **HTL-G049-1005-06**, issued by Hurricane Test Laboratory, LLC, dated 06/07/07, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
10. Laboratory compliance letter for Test Reports No.'s **HTL-G049-1005-06** and **HTL-G049-0111-06**, issued by Hurricane Test Laboratory, LLC, dated 01/31/07 and 01/20/06, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
11. Laboratory compliance letter for Test Report No. **HTL-G049-0111-06**, issued by Hurricane Test Laboratory, LLC, dated 01/20/06, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 07-0416.02)
12. Laboratory compliance letter for Test Report No. **HTL-G049-1201-05**, issued by Hurricane Test Laboratory, LLC, dated 01/24/06, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 06-0803.05)

G. OTHERS

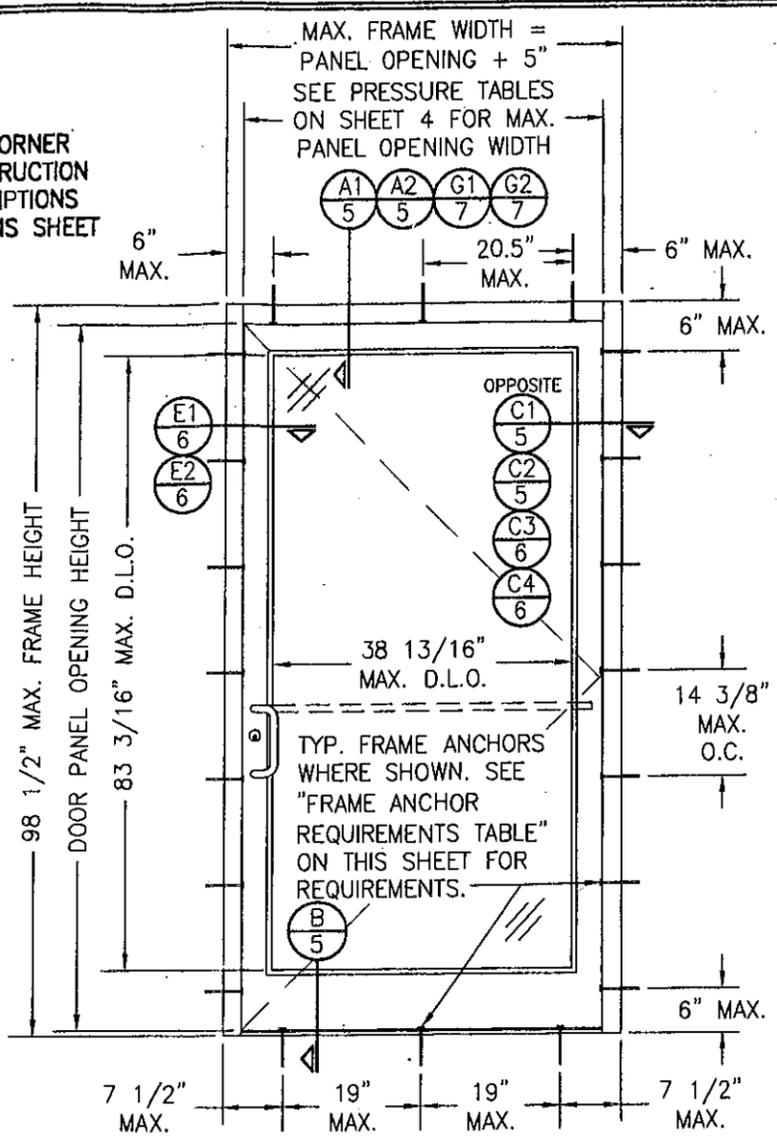
1. Notice of Acceptance No. **09-0930.11**, issued to Kawneer Company, Inc. for their Series "350IR Outswing Aluminum Storefront Door-L.M.I.", approved on 03/24/10 and expiring on 02/08/12.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-0228.04
Expiration Date: February 08, 2017
Approval Date: April 7, 2011



**EXTERIOR ELEVATION:
DOUBLE DOOR ASSEMBLY WITH
STORE FRONT FRAMING**
SCALE: 1/2"=1'-0"



**EXTERIOR ELEVATION:
SINGLE DOOR ASSEMBLY WITH
STORE FRONT FRAMING**
SCALE: 1/2"=1'-0"

- GENERAL NOTES:**
1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 2. OPENINGS, BUCKING & 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 & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
 5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
 7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
 8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
 9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

| FRAME ANCHOR REQUIREMENTS TABLE | | | | |
|---------------------------------|--|-------------------------------------|---------------|--------------------|
| FRAME & SILL ANCHORS | | | | |
| ANCHOR TYPE | OPENING TYPE (SUBSTRATE) | JAMB TO OPENING FASTENER TYPE | MINIMUM EMBED | MINIMUM EDGE DIST. |
| A | 2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 14 SMS SCREW | 1 1/4" | 3/4" |
| B | MIN. 16 GA. 50 KSI METAL STUD | (2) NO. 12 SELF DRILL/TAPPING SCREW | FULL | 1/2" |
| C | MIN. 0.22" THICK A36 STEEL | (2) 1/4-20 SELF DRILL/TAPPING SCREW | FULL | 1/2" |
| D | MIN. 3000 P.S.I. CONCRETE | (1) 1/4" CONCRETE SCREW | 1 3/4" | 2 1/2" |
| E | MIN. C90 CONCRETE FILLED BLOCK | (1) 1/4" CONCRETE SCREW | 1 1/2" | 2 1/2" |
| F | CURTAIN WALL | (2) 1/4-20 SELF DRILL/TAPPING SCREW | FULL | 1/2" |

- (1) CONCRETE SCREWS SHALL BE ELCO TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL

ALLOWABLE DESIGN PRESSURE
SEE SHEET 4

(*) THESE DOORS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC CHAPTER 24.

CORNER & FRAME END CONSTRUCTION FOR SHEET 1 ELEVATIONS:

FRAME HEAD CORNER (IR500/501 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE (3) NO. 12 X 1" S.S. PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME HEAD CORNER (TRIFAB 450/451 FRAME): HEAD IS SQUARE CUT, BUTTED TO SIDE, SECURED WITH SHEAR BLOCK ITEM# 16 (SEE SECTION G/5 & M/6) & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP, FASTENED WITH THREE (3) NO. 12-24 X 3/8" FHMS AT THE FRAME & TWO (2) NO. 12-24 X 3/8" FHMS AT THE SILL, & SEALED WITH SILICONE.

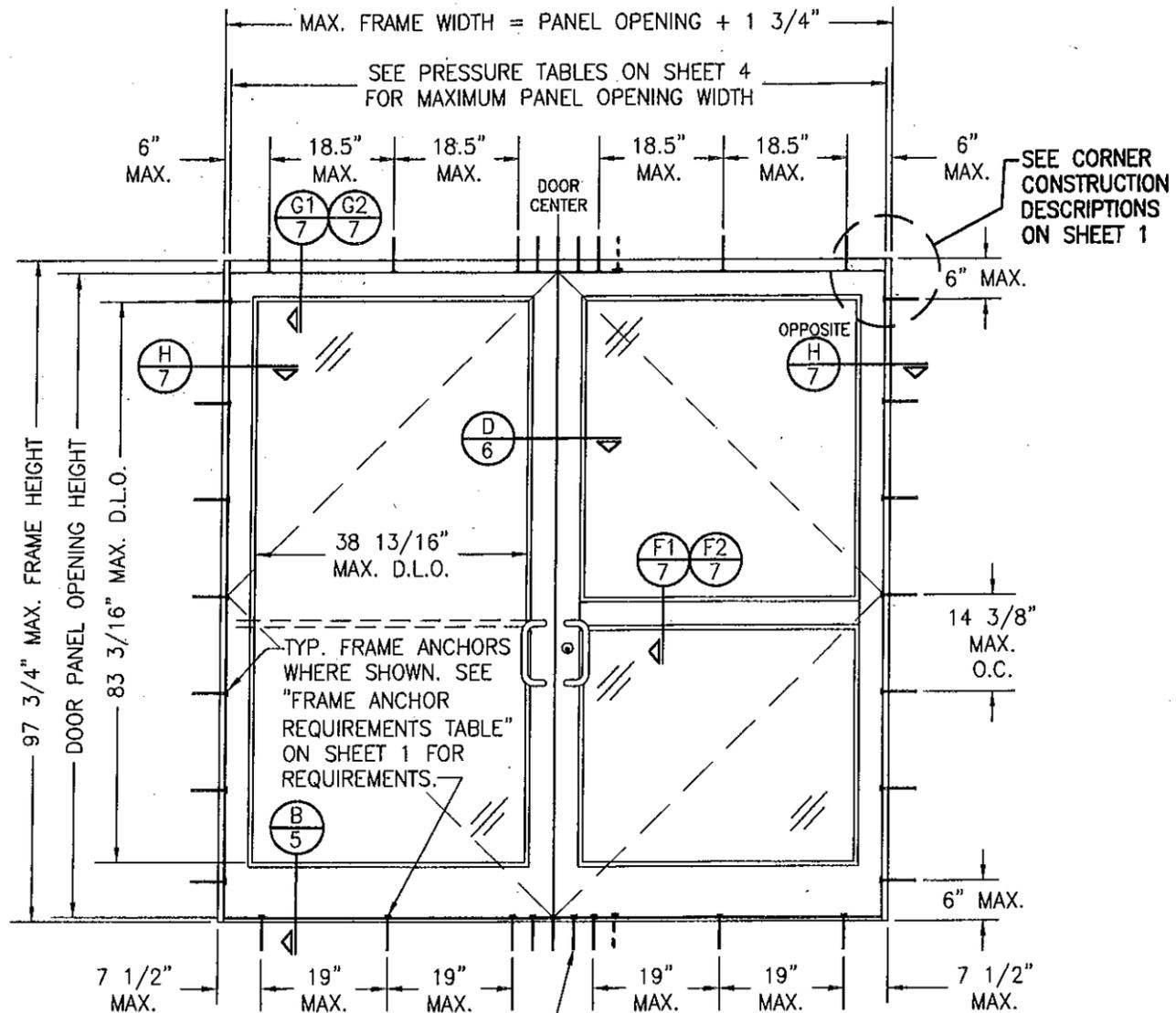
DOOR PANEL CORNERS: VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 1/4" THICK EXTRUDED CHANNELS. EACH CHANNEL IS FASTENED TO THE STILE & RAIL WITH 1/4-20 X 3/4" PHMS & 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED WITH A 1/2" DIA. PLUG WELD AND A 1 1/8" LONG FILLET WELD AT BOTH WEBS OF THE RAIL.

MIDRAIL ENDS: SECURED TO THE VERTICAL RAILS WITH 4 EACH 1 1/8" LONG FILLET WELDS

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 11-0228-04
Expiration Date 02/28/2017
By [Signature]
Miami Dade Product Control



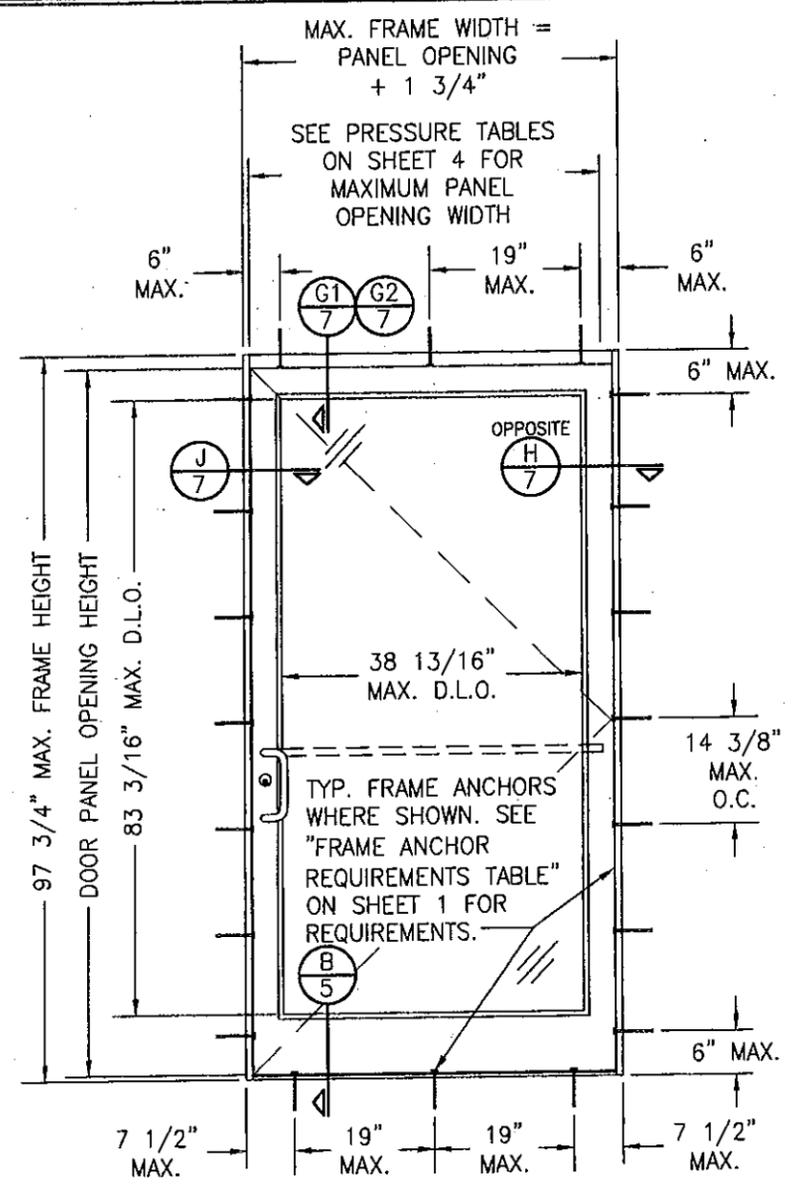
| | | | |
|--|--------------------------------|--------------------|-----|
| DRAWN BY: W.R.M. | | CHECKED BY: W.W.S. | |
| PLOT: 1=24 | | DATE: 11/10/05 | |
| REVISION | DESCRIPTION | DATE | BY |
| A1 | ADDED SMALLER DOOR TO | 04/04/07 | WWS |
| B1 | HIGHER PRESSURE CONDITION | 01/13/09 | WRM |
| C1 | ADDED WOOD SUBSTRATE TO 90 PRF | 08/28/09 | WRM |
| D1 | NEW GLAZING & LOCKS | 02/11/11 | WRM |
| DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | | | |
| MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | | | |
| DRAWING NO. 1460 | | | |
| SHEET NO. 1 OF 10 | | | |



**EXTERIOR ELEVATION:
DOUBLE DOOR ASSEMBLY WITH
STANDARD FRAMING**
SCALE: 1/2"=1'-0"

AT HEAD & SILL, CLUSTER ANCHORS AS SHOWN AT MEETING STILE ENDS SPACED 3" APART. CLUSTER 6 ANCHORS WITH ANCHOR TYPE A; CLUSTER 5 ANCHORS WITH ANCHOR TYPES B, C, D & F (ANCHOR "E" IS NOT APPLICABLE AT HEAD & SILL).

ALLOWABLE DESIGN PRESSURE
SEE SHEET 4



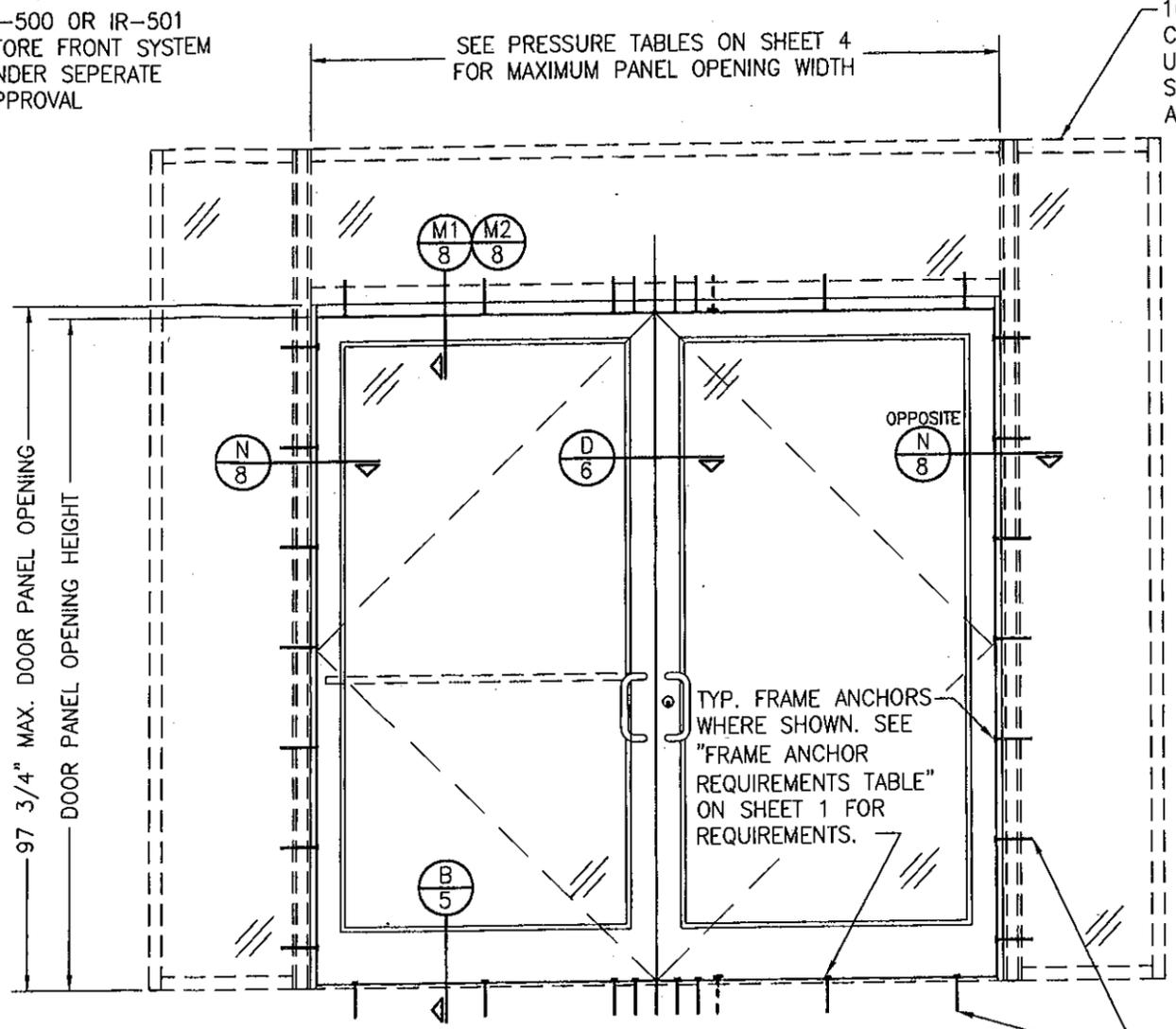
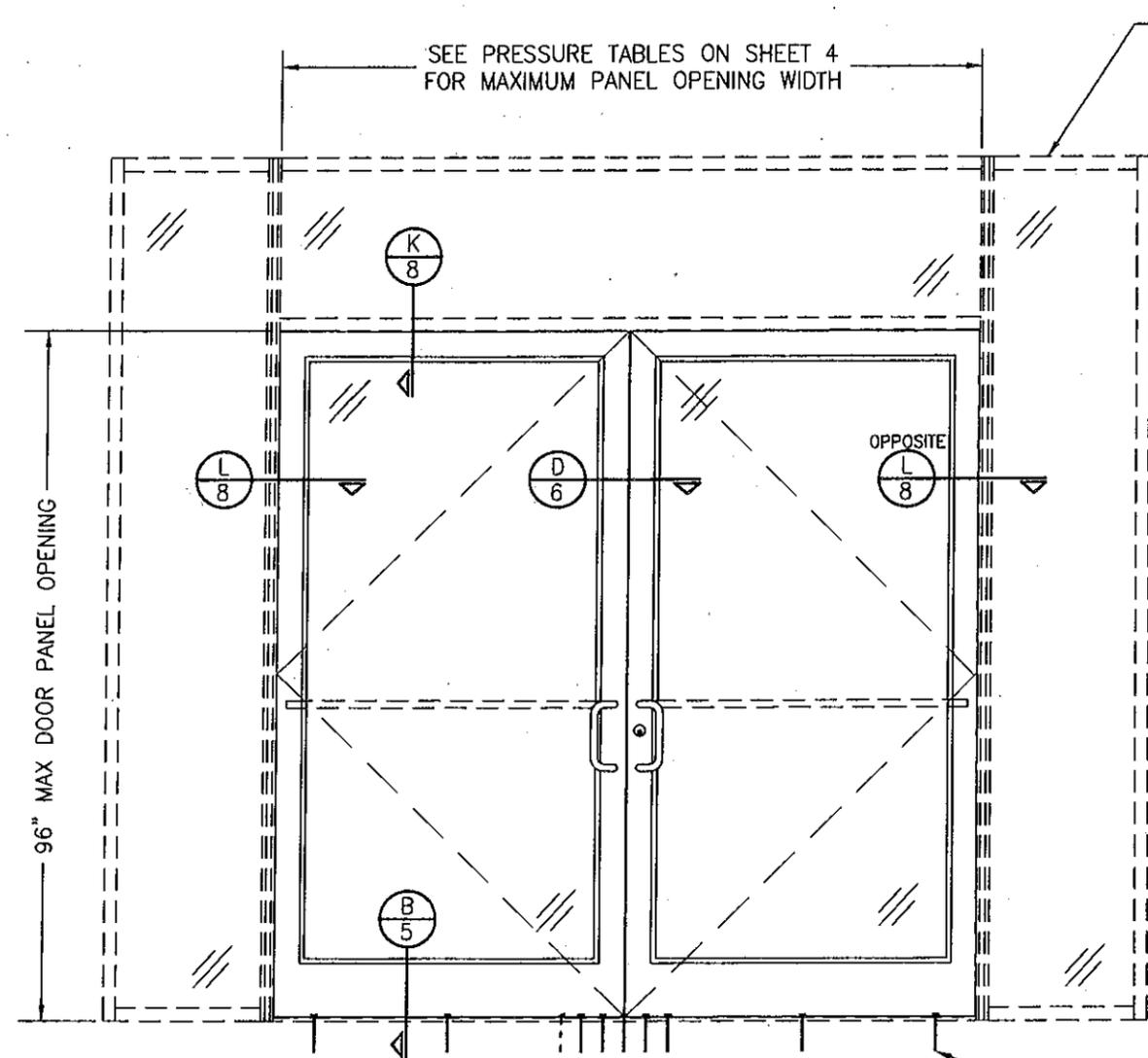
**EXTERIOR ELEVATION:
SINGLE DOOR ASSEMBLY WITH
STANDARD FRAMING**
SCALE: 1/2"=1'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 11-0228.04
Expiration Date 02/08/2017
By *[Signature]*
Miami Dade Product Control



| | | | |
|---|----------------------|--------------------|------|
| DRAWN BY: W.R.M. | | CHECKED BY: W.W.S. | |
| PLOT: 1=24 | | DATE: 11/10/05 | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 748D 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | | | |
| MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 | | | |
| CERTIFICATION | MAR 23 2011 | WARREN W. SCHAEFER | P.E. |
| DRAWING NO. | REV. | SHEET NO. | |
| 1460 | D | 2 OF 10 | |

| | |
|---------------------|-----------------------|
| DRAWN BY: W.R.M. | CHECKED BY: W.W.S. |
| PLOT: 1-24 | DATE: 11/10/05 |
| NO. | REVISION DESCRIPTION |
| BY | DATE |



EXTERIOR ELEVATION:
DOORS INSIDE IR-500 OR IR-501 STORE FRONT SYSTEM
SCALE: 1/2"=1'-0"

EXTERIOR ELEVATION:
DOORS INSIDE 1600 SYSTEM 1 CURTAIN WALL
SCALE: 1/2"=1'-0"

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEET 1.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

NOTES:

1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEET 2.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR CURTAIN WALL FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE CURTAIN WALL APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL ASSEMBLY.

ALLOWABLE DESIGN PRESSURE
SEE SHEET 4

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. **11-0228.03**
Expiration Date **02/08/2017**
By *[Signature]*
Miami Dade Product Control



DRAWING TITLE
350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED

CONSULTANTS
W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH, 33418
PALM BEACH GARDENS, FL
PHONE: 561-744-3424

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

| | |
|----------------------|-----------|
| DRAWING NO. 1460 | REV. D |
| SHEET NO. 3 OF 10 | |

**ALLOWABLE DESIGN PRESSURE
(AS RESTRICTED BY GLASS & GLAZING)**

| MAXIMUM DOOR PANEL OPENING WIDTH (IN.) | | APPLICABLE GLAZING DETAIL | APPLICABLE GLASS OPTIONS | ALLOWABLE PRESSURE (+/-PSF) |
|--|-------------|---------------------------|--------------------------|-----------------------------|
| DOUBLE DOOR | SINGLE DOOR | | | |
| 96 | 48 | 1 | 1 & 2 | 65 |
| 96 | 48 | 2 | 1, 2, 3 & 5 | 70 |
| 96 | 48 | 2 | 4 | 90 |
| 84 | 42 | 1 | 3 & 4 | 90 |

**ALLOWABLE DESIGN PRESSURE
(AS RESTRICTED BY PANIC DEVICES)**

| MAXIMUM DOOR PANEL OPENING WIDTH (IN.) | | PANIC DEVICE | ALLOWABLE PRESSURE (+/-PSF) |
|--|-------------|-----------------|-----------------------------|
| DOUBLE DOOR | SINGLE DOOR | | |
| 96 | 48 | SARGENT AD8400 | 70 |
| 96 | 48 | ADAMS RITE G86 | 70 |
| 96 | 48 | CALIBRE 9100 | 70 |
| 96 | 48 | VON DUPRIN 9947 | 40 |
| 96 | 48 | JACKSON 2086 | 90 |
| 84 | 42 | KAWNEER 1686 | 90 |
| 96 | 48 | PANELINE CR-90 | 70 |
| 96 | 48 | SARGENT 8400 | 65 |

PRESSURE TABLE NOTES (ALL TABLES)

1. CONDITIONS IN THESE TABLES ARE APPLICABLE FOR ALL DOORS TO THEIR MAXIMUM PANEL HEIGHT OF 96".
2. SEE GLAZING DETAILS ON THIS SHEET FOR GLAZING DETAILS & GLASS OPTIONS APPLICABLE TO THESE TABLES.
3. SEE ELEVATIONS ON THIS SHEET FOR VIEW OF DOOR PANEL OPENING HEIGHT & WIDTH.
4. THE LESSER PRESSURE IN ANY ONE TABLE SHALL CONTROL AS THE ALLOWABLE PRESSURE ON THE DOOR ASSEMBLY.

**ALLOWABLE DESIGN PRESSURE
(AS RESTRICTED BY BUTT & PIVOT HINGE QUANTITY)**

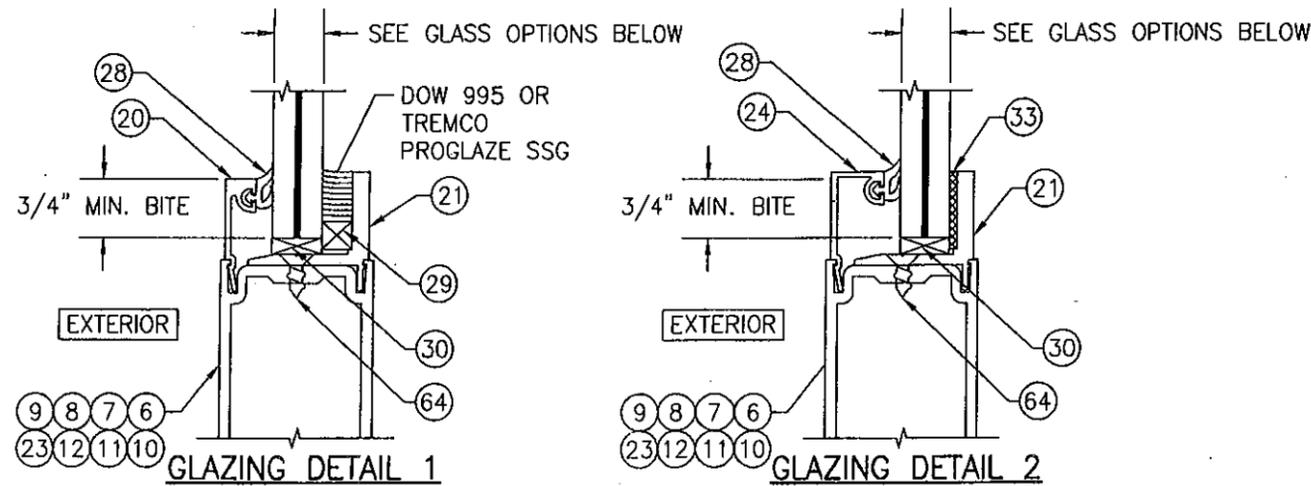
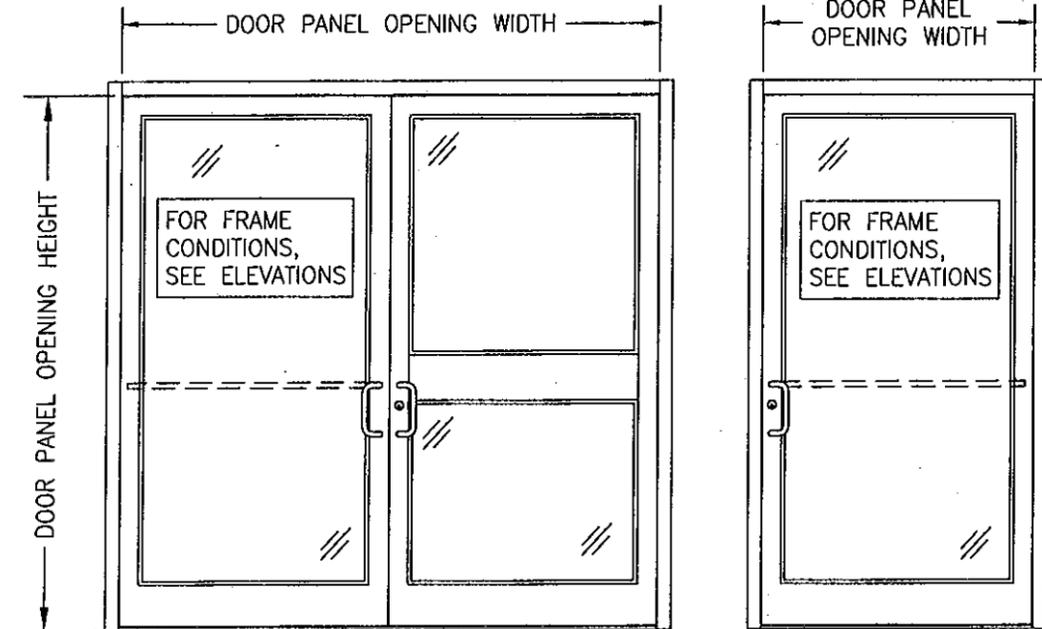
| HINGE QUANTITY PER PANEL | ALLOWABLE PRESSURE (+/-PSF) |
|--------------------------|-----------------------------|
| 3 | 70 |
| 4 | 90 |

NOTE: 3 HINGES PER DOOR PANEL IS ONLY APPLICABLE WITH DOOR OPENING PANEL HEIGHTS OF 90" & LESS

**ALLOWABLE DESIGN PRESSURE
(AS RESTRICTED BY LOCKS)**

| MAXIMUM DOOR PANEL OPENING WIDTH (IN.) | | LOCK CONDITION | ALLOWABLE PRESSURE (+/-PSF) |
|--|-------------|----------------|-----------------------------|
| DOUBLE DOOR | SINGLE DOOR | | |
| 96 | 48 | 1 | 70 |
| 84 | 42 | 1 | 90 |
| 96 | 48 | 2 | 90 |

LOCK CONDITION 1:
ACTIVE DOOR: SEE ITEM #39 ON SHEET 10 FOR LOCK REQUIREMENTS
INACTIVE DOOR: SEE ITEM #40 ON SHEET 10 FOR LOCK REQUIREMENTS
LOCK CONDITION 2:
ACTIVE DOOR: SEE ITEM #41 ON SHEET 10 FOR LOCK REQUIREMENTS
INACTIVE DOOR: SEE ITEM #42 ON SHEET 10 FOR LOCK REQUIREMENTS



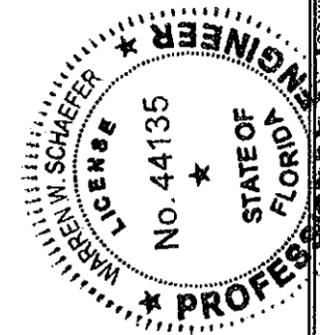
GLASS OPTIONS:

- OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 SOLUTIA SAFLEX III G PVB/1/4" HT. ST.)
- OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)
- OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST.)
- OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.077" SOLUTIA VANCEVA/1/4" HT. ST.)

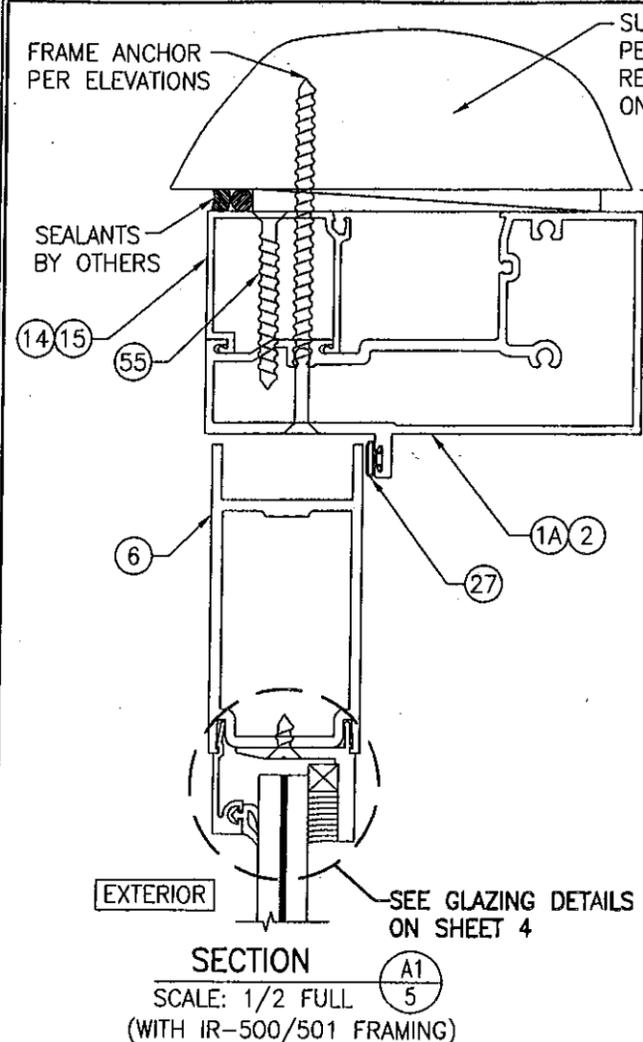
GLASS OPTIONS:

- OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 SOLUTIA SAFLEX III G PVB/1/4" HT. ST.)
- OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)
- OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.09 DUPONT SG/1/4" HT. ST.)
- OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.077" SOLUTIA VANCEVA/1/4" HT. ST.)
- OPTION 5: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.10" SOLUTIA SAFLEX HP/1/4" HT. ST.)

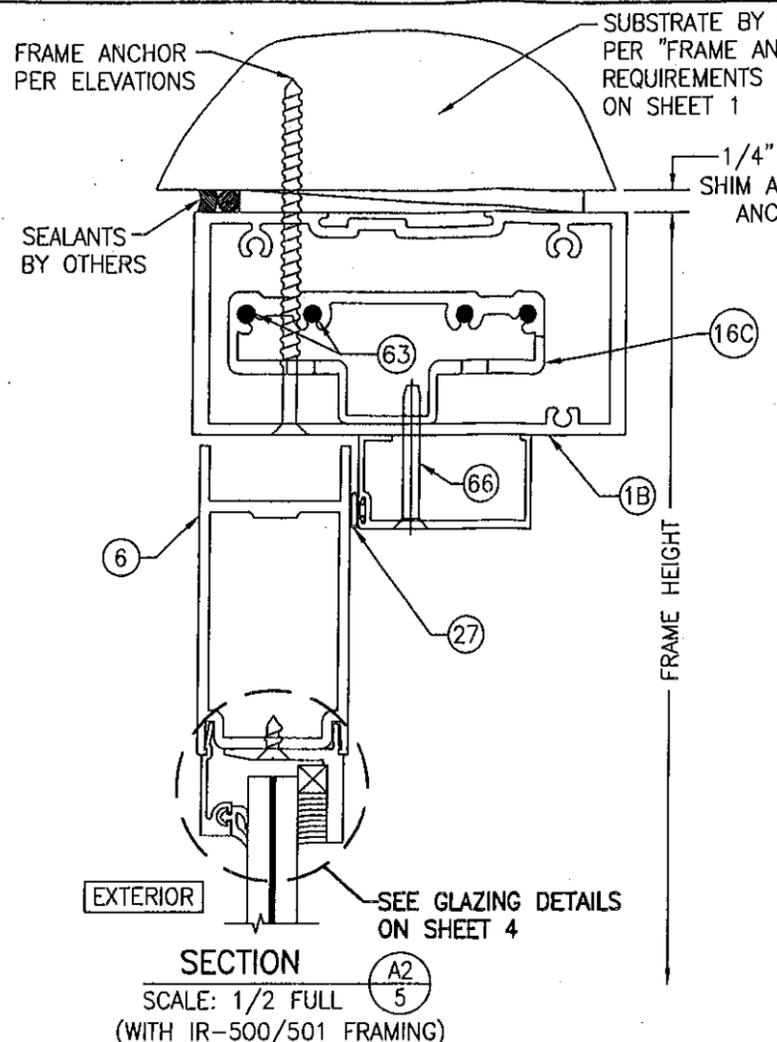
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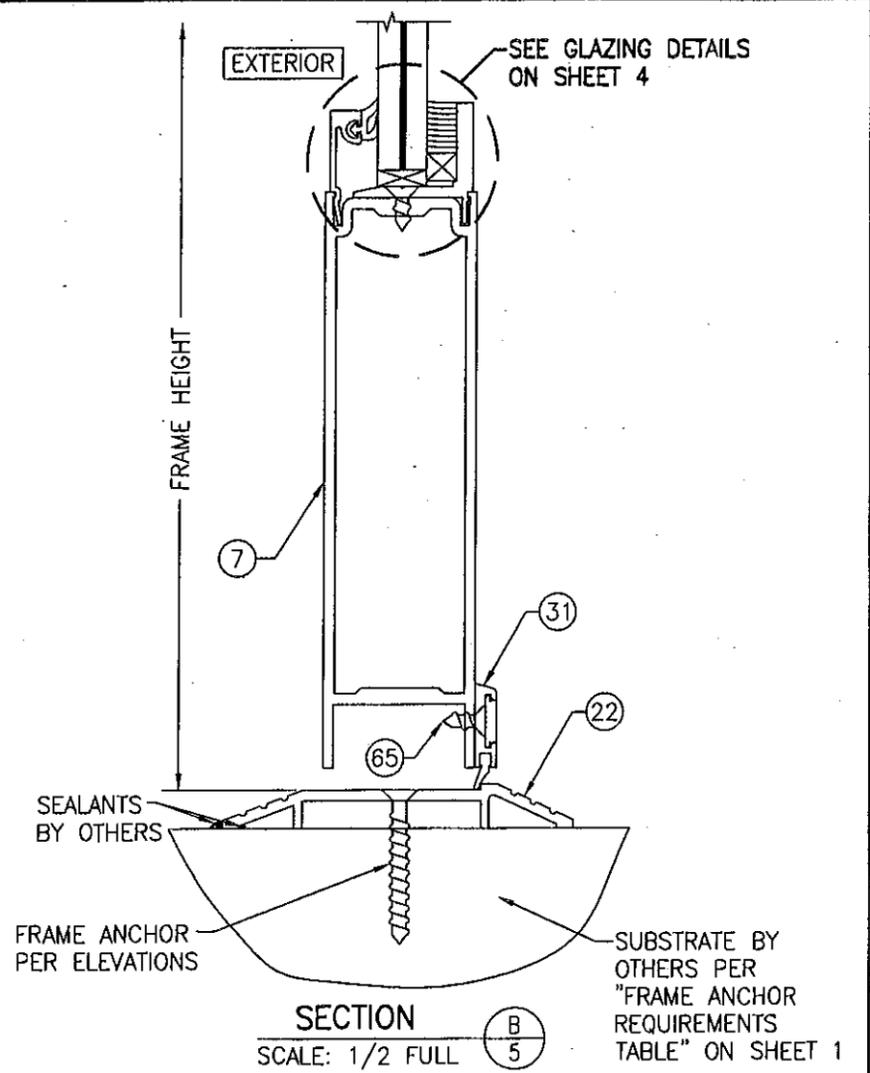
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|---|--|
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| PLOT: 1-24 | DATE: 11/10/05 |
| DATE | |
| BY | |
| REVISION DESCRIPTION | |
| NO. | |
| DRAWING TITLE 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | |
| MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | |
| CERTIFICATION MAR 28 2011 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1460 | REV. D |
| SHEET NO. 4 OF 10 | |



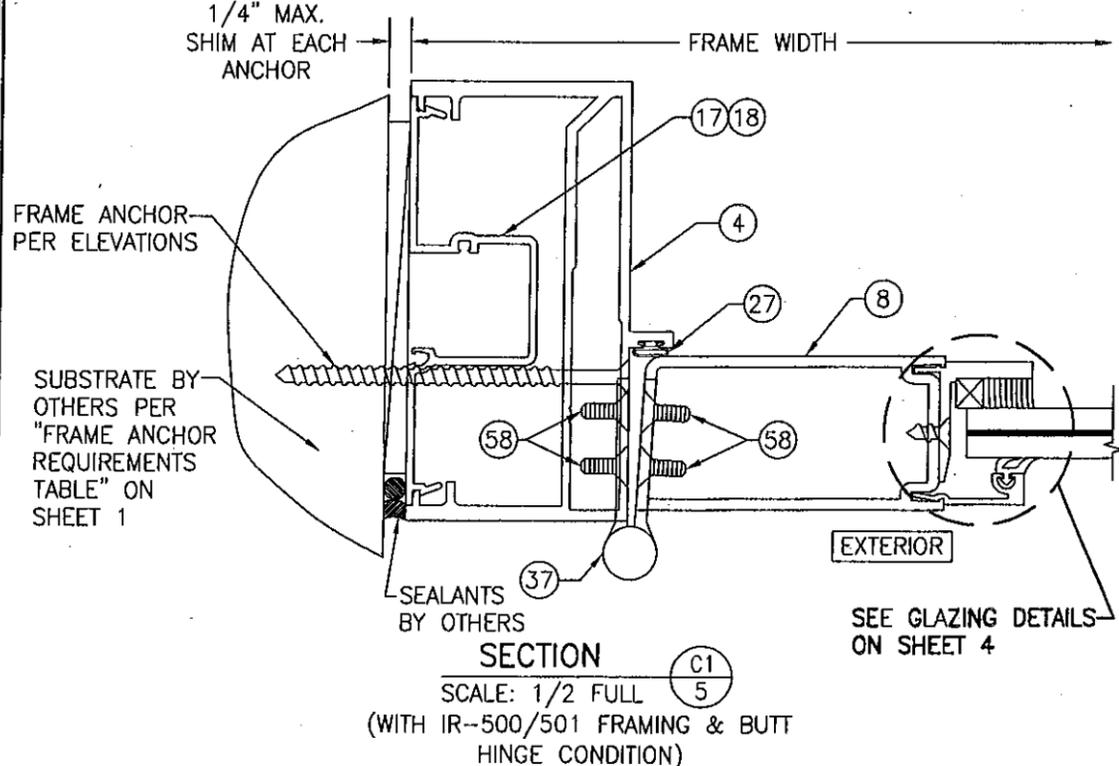
SECTION A1
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING)



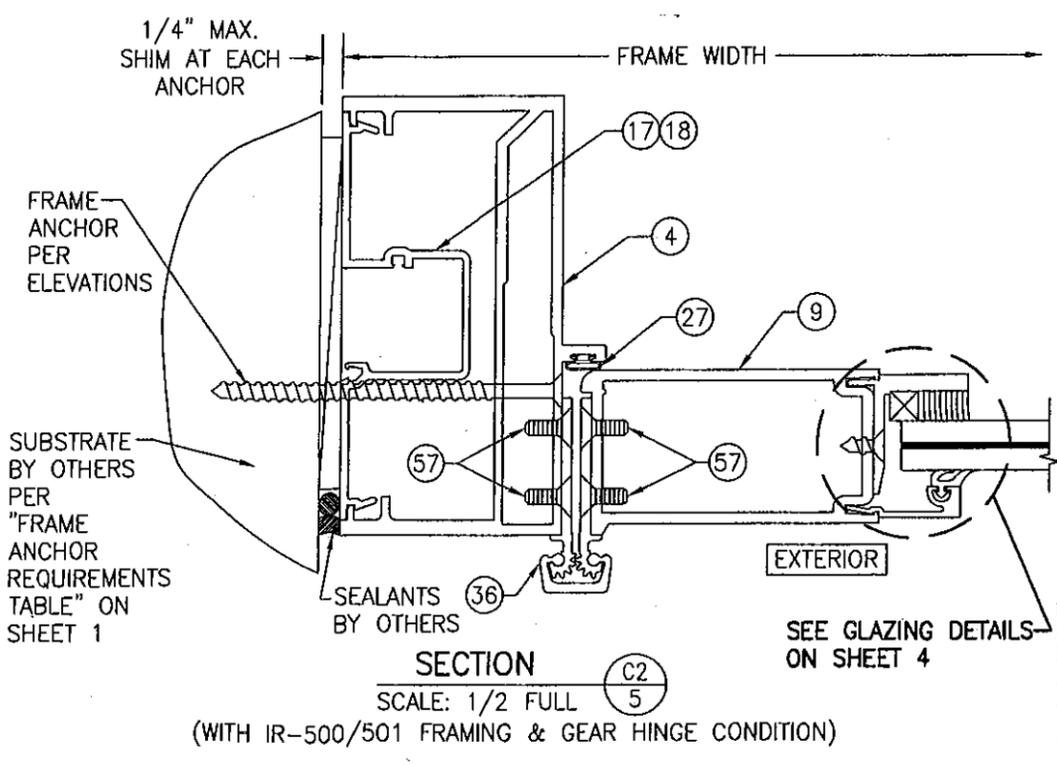
SECTION A2
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING)



SECTION B
SCALE: 1/2 FULL



SECTION C1
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING & BUTT HINGE CONDITION)

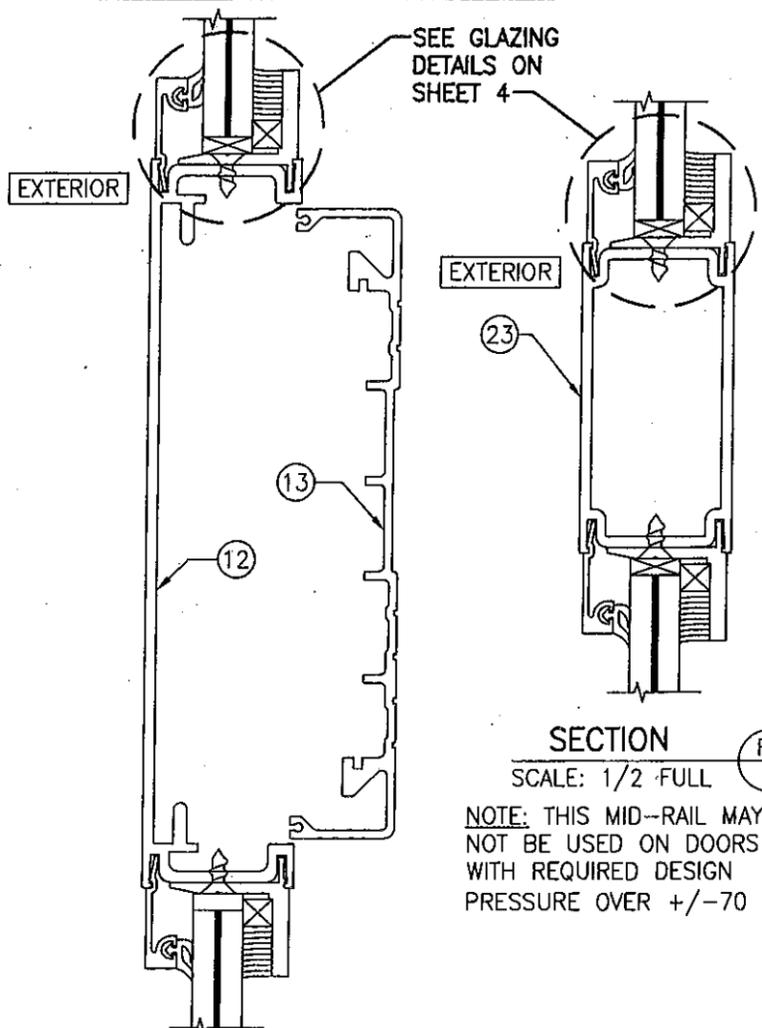


SECTION C2
SCALE: 1/2 FULL
(WITH IR-500/501 FRAMING & GEAR HINGE CONDITION)

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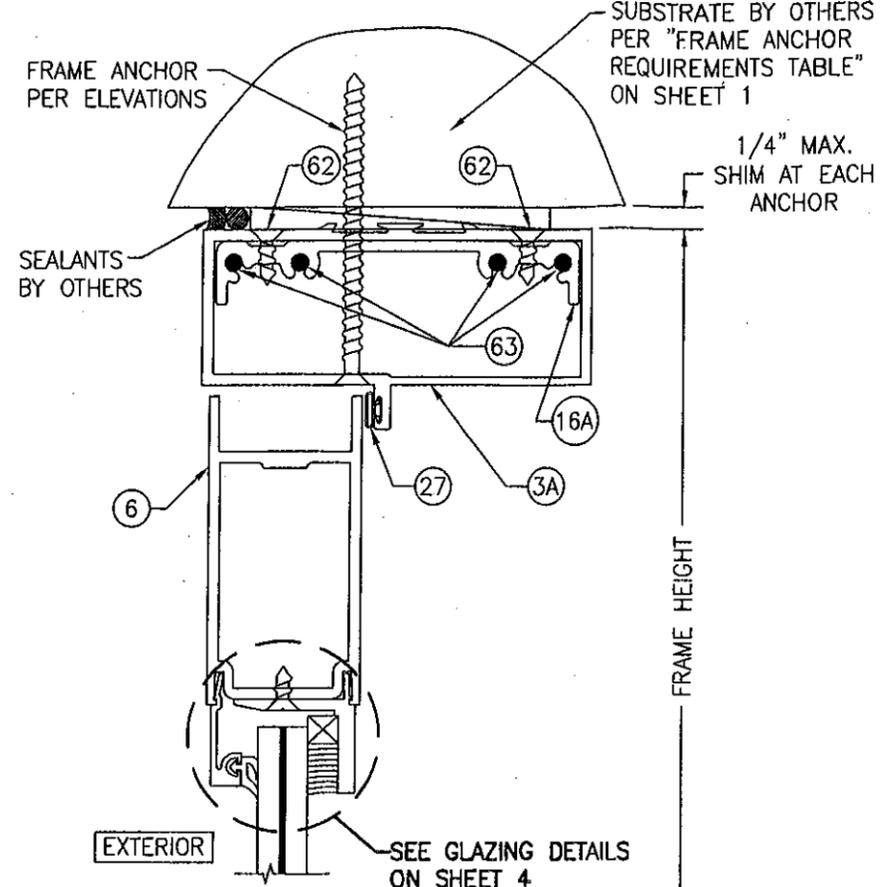


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|--|----------------------|---|------|
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| PLOT: 1-2 | | DATE: 11/10/05 | |
| NO. | REVISION DESCRIPTION | BY | DATE |
| | | | |
| DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) | | MANUFACTURER: KAWNEER COMPANY, INC. | |
| 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 | | 555 GUTHRIDGE COURT, NORCROSS, GA 30092 | |
| PHONE: 561-744-3424 | | 770-449-5555 | |
| CERTIFICATION: MAR 28 2011 | | WARREN W. SCHAEFER, P.E. NO. 44135 | |
| DRAWING NO. 1460 | REV. D | SHEET NO. 5 OF 10 | |

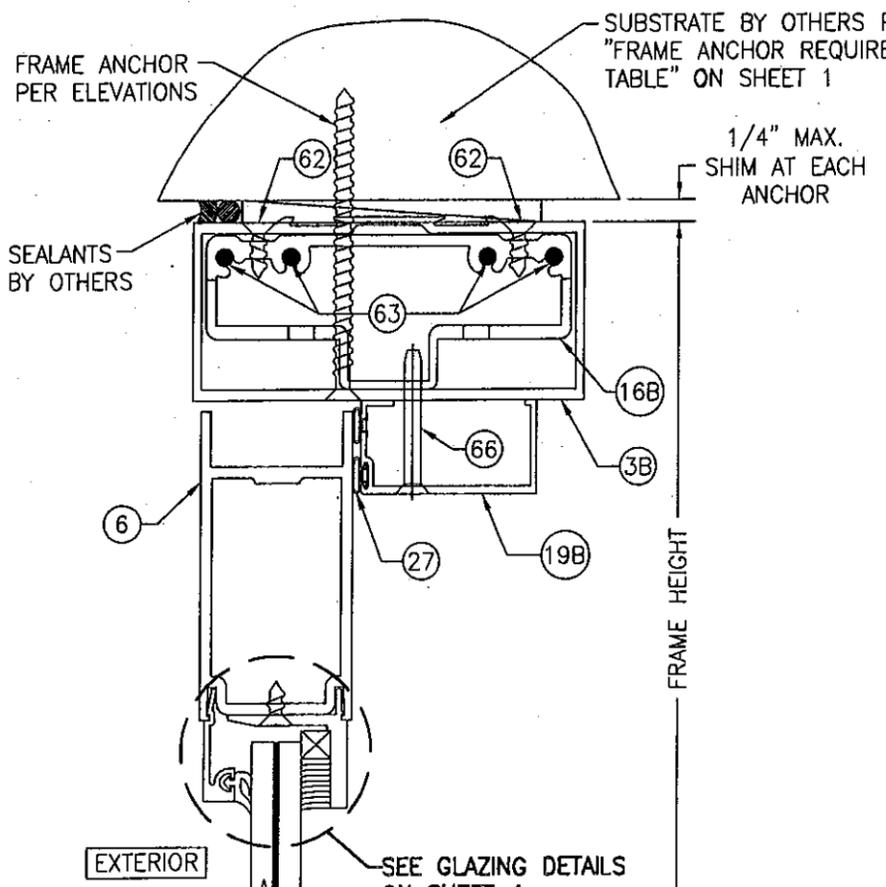


SECTION F1
SCALE: 1/2 FULL

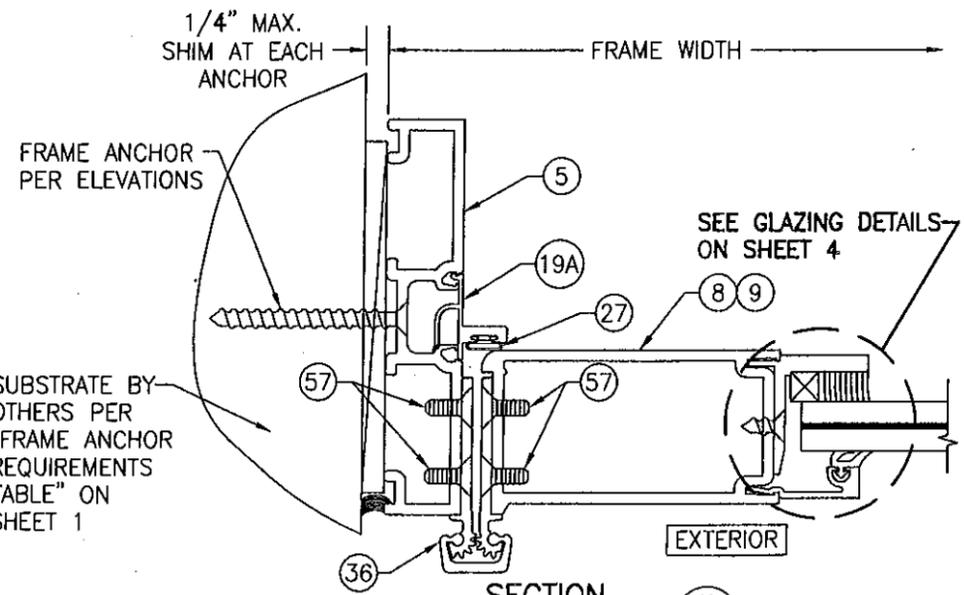
SECTION F2
SCALE: 1/2 FULL
NOTE: THIS MID-RAIL MAY NOT BE USED ON DOORS WITH REQUIRED DESIGN PRESSURE OVER +/-70 PSF.



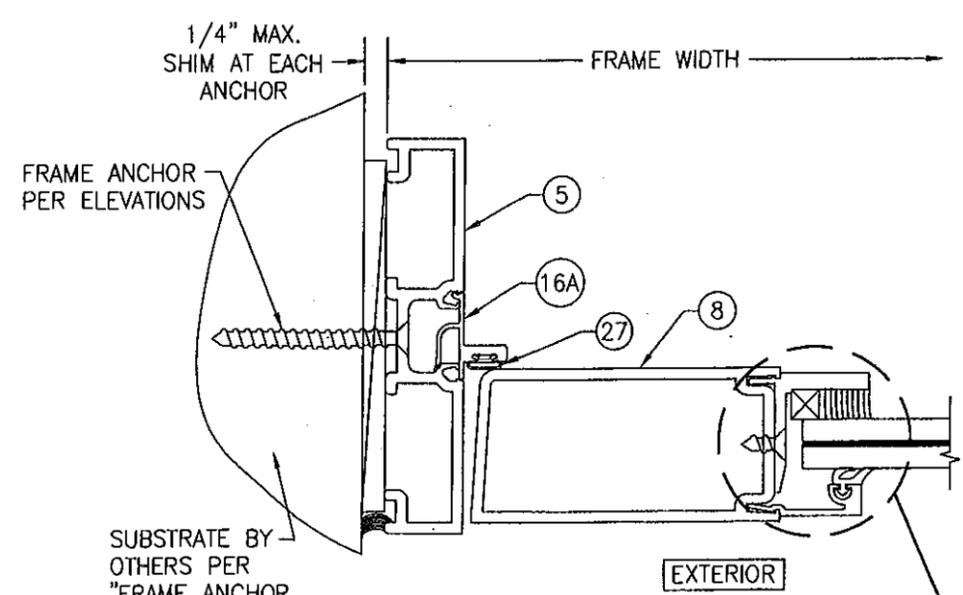
SECTION G1
SCALE: 1/2 FULL
(WITH TRIFAB 450 FRAME)



SECTION G2
SCALE: 1/2 FULL
(WITH TRIFAB 451 FRAME)

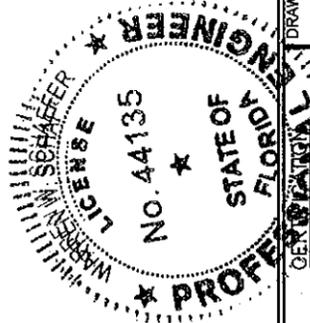


SECTION H
SCALE: 1/2 FULL
(GEAR HINGE CONDITION SHOWN; FOR OTHER HINGE CONDITIONS APPLICABLE TO THIS SECTION, SEE SECTIONS C1/5 & C3/6)

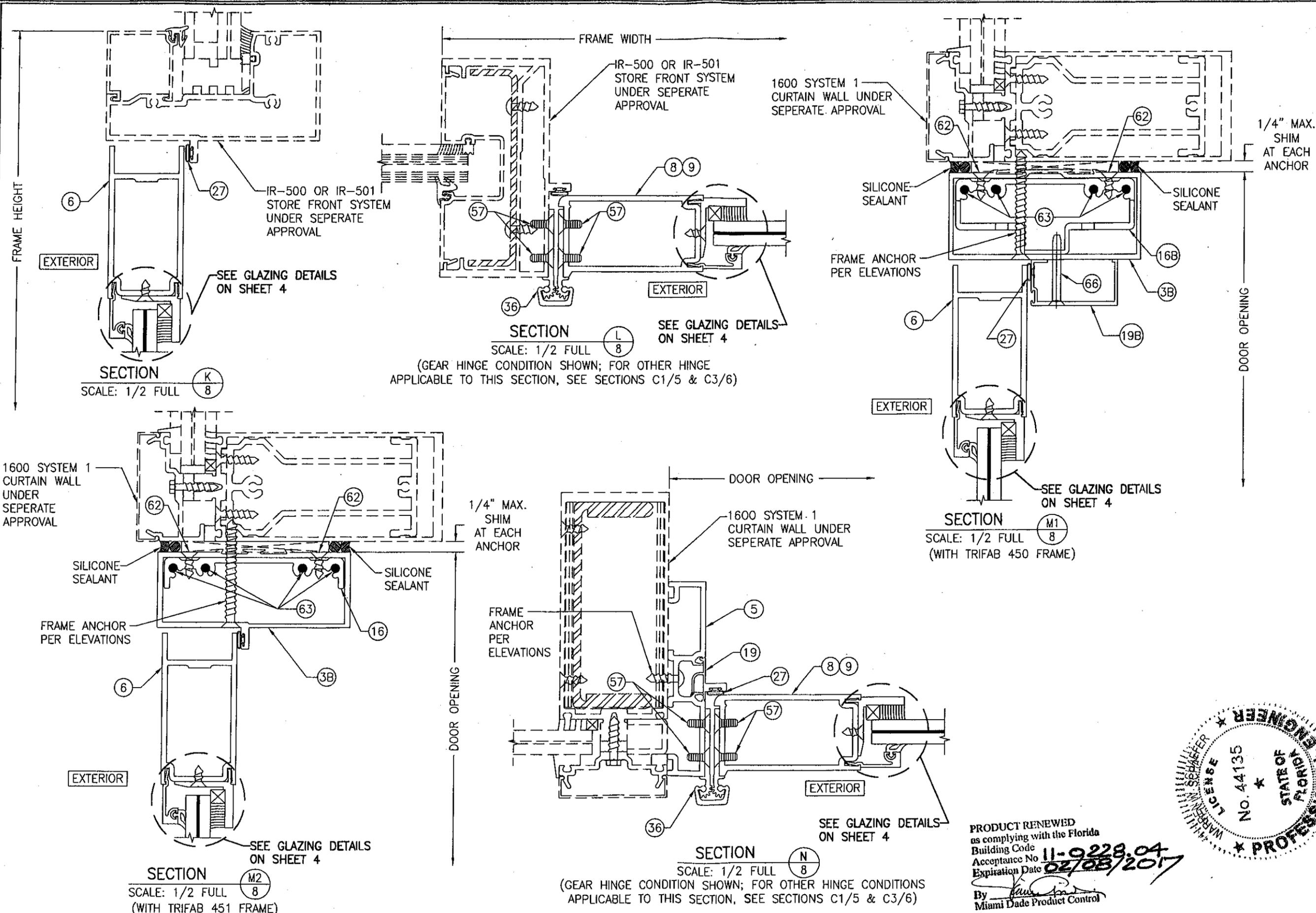


SECTION J
SCALE: 1/2 FULL
SEE GLAZING DETAILS ON SHEET 4

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| NO. | REVISION DESCRIPTION |
| DATE | BY |
| DRAWING TITLE: 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | |
| MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | |
| DRAWING NO. 1460 | REV. D |
| SHEET NO. 7 OF 10 | |



| | |
|---------------------|-----------------------|
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| NO. | REVISION DESCRIPTION |
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DRAWING TITLE
350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
MAR 23 2011

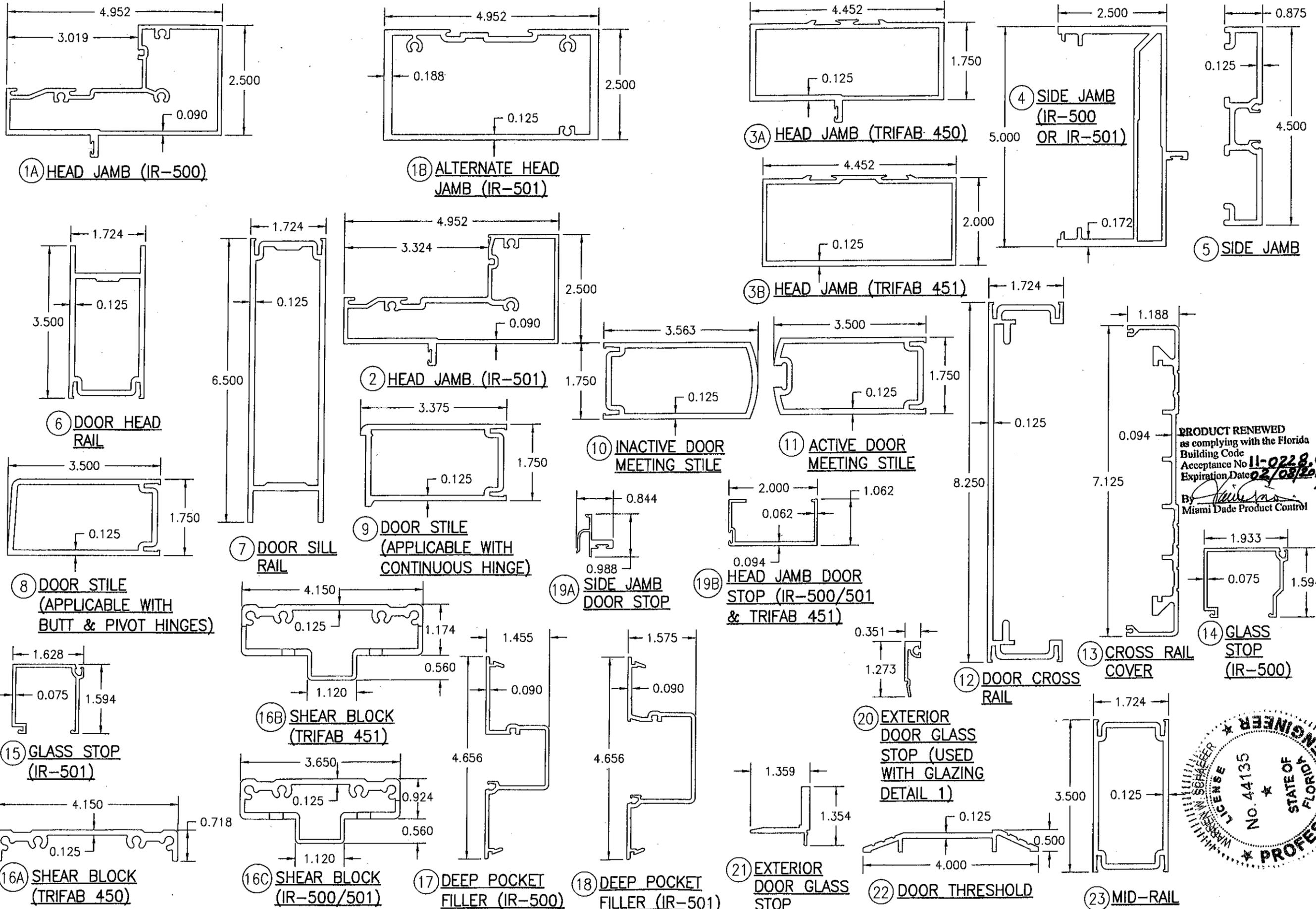
WARREN W. SCHAEFER
LICENSE
No. 44135
STATE OF FLORIDA
PROFESSIONAL ENGINEER

WARREN W. SCHAEFER P.E.
P.E. NO. 44135

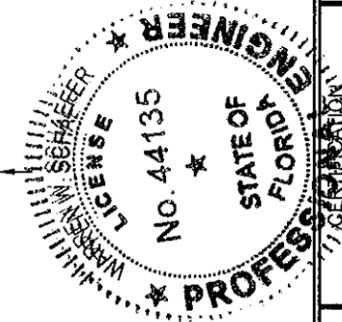
DRAWING NO. 1460
SHEET NO. 8 OF 10

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Acceptance No. 11-9228.04
Expiration Date 02/08/2017

By *[Signature]*
Miami Dade Product Control



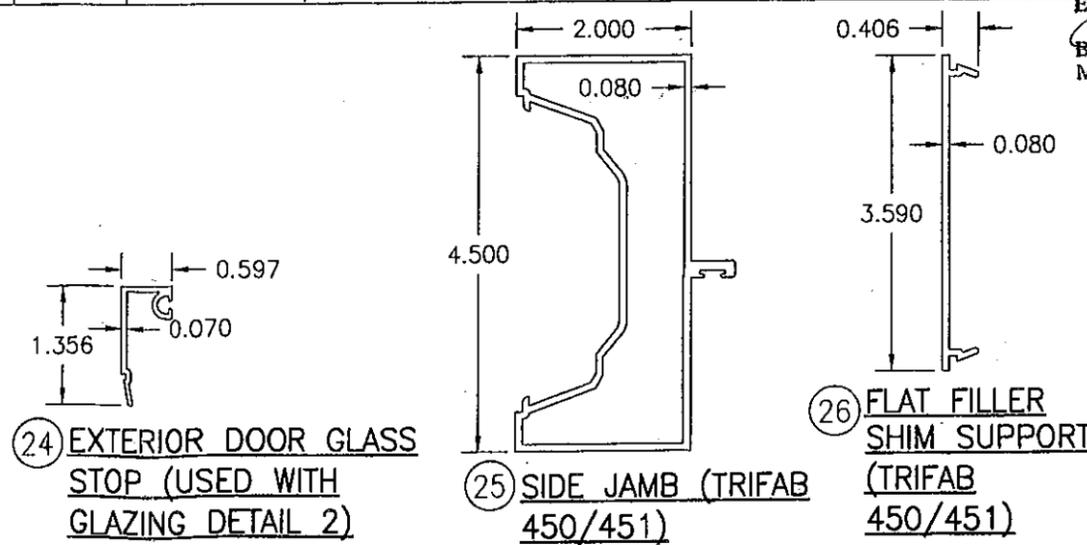
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 as complying with the Florida
 Building Code
 Acceptance No. **11-0228-04**
 Expiration Date **02/08/2011**
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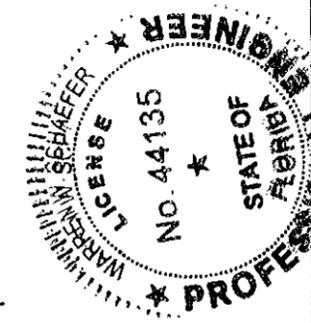
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| DRAWN BY: W.R.M. | | CHECKED BY: W.W.S. | |
| PLOT: 1=2 | | DATE: 11/10/05 | |
| NO. | REVISION DESCRIPTION | DATE | BY |
| | | | |
| DRAWING TITLE 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | | | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | | MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555 | |
| DRAWING NO. 1460 | | REV. D | |
| SHEET NO. 9 | | OF 10 | |

| ITEM # | PART # | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|--------------------|---------|---|--|
| PARTS | | | |
| 1A | 575-022 | HEAD JAMB (IR-500) | 6063-T6 ALUMINUM |
| 1B | 575-162 | ALTERNATE HEAD JAMB (IR-500/501) | 6063-T6 ALUMINUM |
| 2 | 575-122 | HEAD JAMB (IR-501) | 6063-T6 ALUMINUM |
| 3A | 450-502 | HEAD JAMB (TRIFAB 450) | 6063-T6 ALUMINUM |
| 3B | 451-079 | HEAD JAMB (TRIFAB 451) | 6063-T6 ALUMINUM |
| 4 | 575-051 | SIDE JAMB (IR 500-OR IR-501) | 6063-T6 ALUMINUM |
| 5 | 163-036 | SIDE JAMB (1600 DR JB ADAPTOR) | 6063-T6 ALUMINUM |
| 6 | 200-023 | DOOR; TOP RAIL | 6063-T6 ALUMINUM |
| 7 | 200-032 | DOOR; BOTTOM RAIL | 6063-T6 ALUMINUM |
| 8 | 200-005 | DOOR STILE (APPLICABLE WITH BUTT & PIVOT HINGES) | 6063-T6 ALUMINUM |
| 9 | 200-012 | DOOR STILE (APPLICABLE WITH CONTINUOUS HINGES) | 6063-T6 ALUMINUM |
| 10 | 200-007 | INACTIVE DOOR MEETING STILE | 6063-T6 ALUMINUM |
| 11 | 200-006 | ACTIVE DOOR MEETING STILE | 6063-T6 ALUMINUM |
| 12 | 233-013 | DOOR CROSS RAIL | 6063-T6 ALUMINUM |
| 13 | 033-105 | CROSS RAIL COVER | 6063-T6 ALUMINUM |
| 14 | 575-004 | GLASS STOP (IR-500) | 6063-T6 ALUMINUM |
| 15 | 575-104 | GLASS STOP (IR-501) | 6063-T6 ALUMINUM |
| 16A | 450-103 | SHEAR BLOCK (TRIFAB 450) | 6063-T6 ALUMINUM |
| 16B | 451-141 | SHEAR BLOCK (TRIFAB 451) | 6063-T6 ALUMINUM |
| 16C | 400-140 | SHEAR BLOCK (IR-500/501) | 6063-T6 ALUMINUM |
| 17 | 575-035 | DEEP POCKET FILLER (IR-500) | 6063-T6 ALUMINUM |
| 18 | 575-135 | DEEP POCKET FILLER (IR-501) | 6063-T6 ALUMINUM |
| 19A | 450-520 | SIDE JAMB DOOR STOP | 6063-T6 ALUMINUM |
| 19B | 041-045 | HEAD JAMB DOOR STOP (451 & 500/501) | 6063-T6 ALUMINUM |
| 20 | 575-043 | EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 1) | 6063-T6 ALUMINUM |
| 21 | 575-045 | INTERIOR DOOR GLASS STOP | 6063-T6 ALUMINUM |
| 22 | 069-139 | DOOR THRESHOLD | 6063-T6 ALUMINUM |
| 23 | 200-058 | MID-RAIL | 6063-T6 ALUMINUM |
| 24 | 575-041 | EXTERIOR DOOR GLASS STOP (USED WITH GLAZING DETAIL 2) | 6063-T6 ALUMINUM |
| 25 | 451-064 | SIDE JAMB (TRIFAB 450/451) | 6063-T6 ALUMINUM |
| 26 | 450-126 | FLAT FILLER SHIM SUPPORT (TRIFAB 450/451) | 6063-T6 ALUMINUM |
| SEALS AND SEALANTS | | | |
| 27 | 027-078 | DOOR BULB WEATHERING | ALCRYN |
| 28 | 027-563 | FIXED DOOR GASKET | EPDM |
| 29 | 127-041 | GLAZING TAPE / SILICONE SPACER | SEMI-RIGID POLYURETHANE FOAM |
| 30 | 027-342 | DOOR SETTING BLOCK | NEOPRENE |
| 31 | 200-795 | DOOR BOTTOM RAIL WEATHER SWEEP | VARIED |
| 32 | 200-497 | ADJUSTABLE ASTRAGAL WEATHERING | VARIED |
| 33 | - | COMPRESSION TAPE | 3M |
| HARDWARE | | | |
| 36 | 050-821 | CONTINUOUS GEAR HINGE | HAGER/ROTON |
| 37 | 037-232 | BUTT HINGE (4 PER PANEL) | HAGER |
| 38 | 050-322 | TOP OFFSET PIVOT HINGE | KAWNEER |
| | 050-331 | INTERMEDIATE OFFSET PIVOT HINGE | |
| | 050-326 | RH BOTTOM OFFSET PIVOT HINGE | |
| | 050-327 | LH BOTTOM OFFSET PIVOT HINGE | |
| 39 | - | ACTIVE DOOR LOCK ASSEMBLY | ADAMS-RITE 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER. |

| ITEM # | PART # | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|-------------------------|--------|---------------------------------|--|
| HARDWARE CONTINUED | | | |
| 40 | 50-079 | INACTIVE DOOR TOP FLUSH BOLT | ADAMS-RITE 1850 FLUSH BOLT SYSTEM WITH KAWNEER'S PUSH PACKAGE |
| | 50-075 | INACTIVE DOOR BOTTOM FLUSH BOLT | |
| 41 | - | ACTIVE DOOR LOCK ASSEMBLY | ADAMS-RITE MS 1850 3-POINT LOCK SYSTEM WITH KAWNEER'S CYLINDER, THUMBTURN & PUSH PACKAGE |
| 42 | - | INACTIVE DOOR LOCK ASSEMBLY | ADAMS-RITE 2180 2-POINT LOCK SYSTEM WITH KAWNEER'S PUSH PACKAGE |
| 43 | 50-079 | INACTIVE DOOR TOP FLUSH BOLT | BY ADAMS-RITE |
| 44 | 50-075 | INACTIVE DOOR BOTTOM FLUSH BOLT | BY ADAMS-RITE |
| 45 | - | CONCEALED ROD EXIT/PANIC DEVICE | JACKSON 2086 |
| 46 | - | CONCEALED ROD EXIT/PANIC DEVICE | KAWNEER 1686 |
| 47 | - | CONCEALED ROD EXIT/PANIC DEVICE | SARGENT 8400 |
| 48 | - | CONCEALED ROD EXIT/PANIC DEVICE | PANELINE CR-90 |
| 49 | - | CONCEALED ROD EXIT/PANIC DEVICE | SARGENT ADB400 |
| 50 | - | CONCEALED ROD EXIT/PANIC DEVICE | VON DUPRIN 9947 |
| 51 | - | CONCEALED ROD EXIT/PANIC DEVICE | CALIBRE 9100 |
| 52 | - | CONCEALED ROD EXIT/PANIC DEVICE | ADAMS RITE G86 |
| MISCELLANEOUS FASTENERS | | | |
| 55 | - | NO. 12 X 2" SCREW | 3" FROM ENDS & MAX. 11" O.C. |
| 56 | - | NO. 12-24 X 9/16" S.S SCREW | 8 PER HINGE |
| 57 | - | NO. 12-24 X 13/32" SCREW | 2 9/16" FROM ENDS & MAX. 5 1/8" O.C. (52 MAX. PER HINGE) |
| 58 | - | 5/16"-18 X 5/8" SCREW | 2 PER TOP PIVOT HINGE |
| 59 | - | NO. 12-24 X 9/16" S.S SCREW | 2 PER INTERMEDIATE PIVOT HINGE |
| 60 | - | 1/4-20 X 3/8" SCREW | 3 PER BOTTOM PIVOT HINGE |
| 61 | - | NO. 6 X 11/16" SCREW | 10 PER LEAF |
| 62 | - | NO. 10 X 9/16" S.S SCREW | 2 PER CLIP |
| 63 | - | NO. 10 X 1 19/32" S.S. SCREW | 4 PER CLIP |
| 64 | - | NO. 10 X 1/2" S.S. SCREW | 3" FROM ENDS & MAX. 7 1/2" O.C. AT TOP & BOTTOM RAILS - 3" FROM ENDS & MAX. 11 1/8" O.C. AT STILES |
| 65 | - | NO. 6 X 3/4" S.S. SCREW | 1/4" FROM ENDS & MAX. 9 17/32" O.C. |
| 66 | - | NO. 10 X 1 5/8" FHTF "B" SCREW | 1" FROM ENDS & MAX. 16" O.C. |



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 Expiration Date **02/08/2017**
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| | |
|--|--------------------|
| DRAWN BY: W.R.M. | CHECKED BY: W.W.S. |
| PLOT: 1=2 | DATE: 11/10/05 |
| DATE | |
| BY | |
| REVISION DESCRIPTION | |
| NO. | |
| DRAWING TITLE 350IR OUTSWING ALUMINUM STOREFRONT DOORS - LMI WET GLAZED | |
| MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 | |
| DRAWING NO. 1460 REV. D | |
| SHEET NO. 10 OF 10 | |