

# Slidell Memorial Hospital Imaging Center Front Entrance Renovation

Submittal # 08411-01  
 Project SMH Imaging Center Front Entrance Renovation  
 Shop Drwg. # SMH Imaging Center Front Entrance Renovation  
 Spec. Sec. # 08411  
 Vendor/Sub A-1 Glass Services  
 Product Aluminum Framed Entrances and Store Front Systems

*M Natal Contractor, Inc.*

Reviewing is for conformance with the design concept of the project and compliance with the information given in the Contract Documents. The Vendor is responsible for dimensions to be confirmed and correlated at the site for information that pertains solely to the fabrication process or to the means, method, technician, sequences, and procedures of construction; and for coordination of the work with all trades.

- No Objections   
 No Objection Except as Noted   
 Revise and Resubmit   
 Not Approved; Re-Submit

By: Patricia Shurden Date 06/15/2016  
 Patricia Shurden 06/15/2016

DAMMON ENGINEERING INC  
 Date: 6-16-16 Project: SMH ENTRANCES

- Reviewed as Noted:
- Revise and Resubmit:
- Rejected:
- Other:

Submittal Items  
 Corrections or comments made on the shop drawings during this review do not relieve the contractor of compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. This contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades and performing all in a safe and satisfactory manner.

Submittal Item: GLASS Comments  
MATCH EXISTING SPACING OF WINDOWS



# SLIDELL IMAGING CENTER SLIDELL, LA.

GENERAL CONTRACTOR - M NATAL CONTRACTOR INC  
ARCHITECT - DAMMON ENGINEERING  
GLAZING SUB - A-1 GLASS SERVICES, INC

## NOTES

### GLASS TYPE - 1

ALL EXTERIOR STOREFRONT VISION GLASS SHALL BE 1-5/16" BRONZE TINTED REFLECTIVE LARGE MISSILE IMPACT RESISTANT INSULATED GLASS.

EXTERIOR - 1/4" BRONZE TINTED REFLECTIVE HEAT STRENGTHEN  
1/2" AIR SPACE  
INTERIOR - 9/16" CLEAR HEAT STRENGTHEN LAMINATED (VERIFY EXISTING)  
(1/4" CLEAR H.S, .090 PVB, 1/4" CLEAR HS)

### GLASS TYPE - 2

ALL EXTERIOR ALUMINUM ENTRANCE DOOR GLASS SHALL BE 9/16" BRONZE TINTED REFLECTIVE LARGE MISSILE IMPACT RESISTANT LAMINATED GLASS.

EXTERIOR - 1/4" BRONZE TINTED REFLECTIVE HEAT STRENGTHEN  
.090 PVB INTERLAYER  
1/4" CLEAR HEAT STRENGTHEN (VERIFY EXISTING)

### GLASS TYPE - 3

ALL INTERIOR GLAZING SHALL BE 1/4" CLEAR TEMPERED SAFETY

ALL DIMENSIONS SHALL BE FIELD VERIFIED BEFORE FABRICATION AND INSTALLATION.

EXTERIOR ALUMINUM STOREFRONT FRAMES SHALL BE KAWNEER COMPANY IR501, 2-1/2" X 5" LARGE MISSILE IMPACT RESISTANT SYSTEM.

EXTERIOR ALUMINUM ENTRANCE DOORS SHALL BE KAWNEER COMPANY 350IR LARGE MISSILE IMPACT RESISTANT WITH KAWNEER SUPPLIED HARDWARE.

ALL ALUMINUM FRAMES AND DOORS SHALL BE #40 DARK BRONZE ANODIZED FINISH SUPPLIED FROM THE KAWNEER COMPANY.

ALL ALUMINUM SILL FLASHING'S SHALL BE SET IN FULL BED OF SEALANT AND ALL ENDS SHALL BE TURNED UP. THE FINISH TO MATCH STOREFRONTS.

ALL PERIMETER CAULKING SHALL BE DOW CORNING CWS SILICONE SEALANT. COLOR AS SELECTED BY ARCHITECT

LEADTIMES ON GLASS AFTER FIELD VERIFIED DIMENSION IS APPRX 6/8 WEEKS

LEADTIMES ON STOREFRONTS AFTER APPROVAL 4 WEEKS.

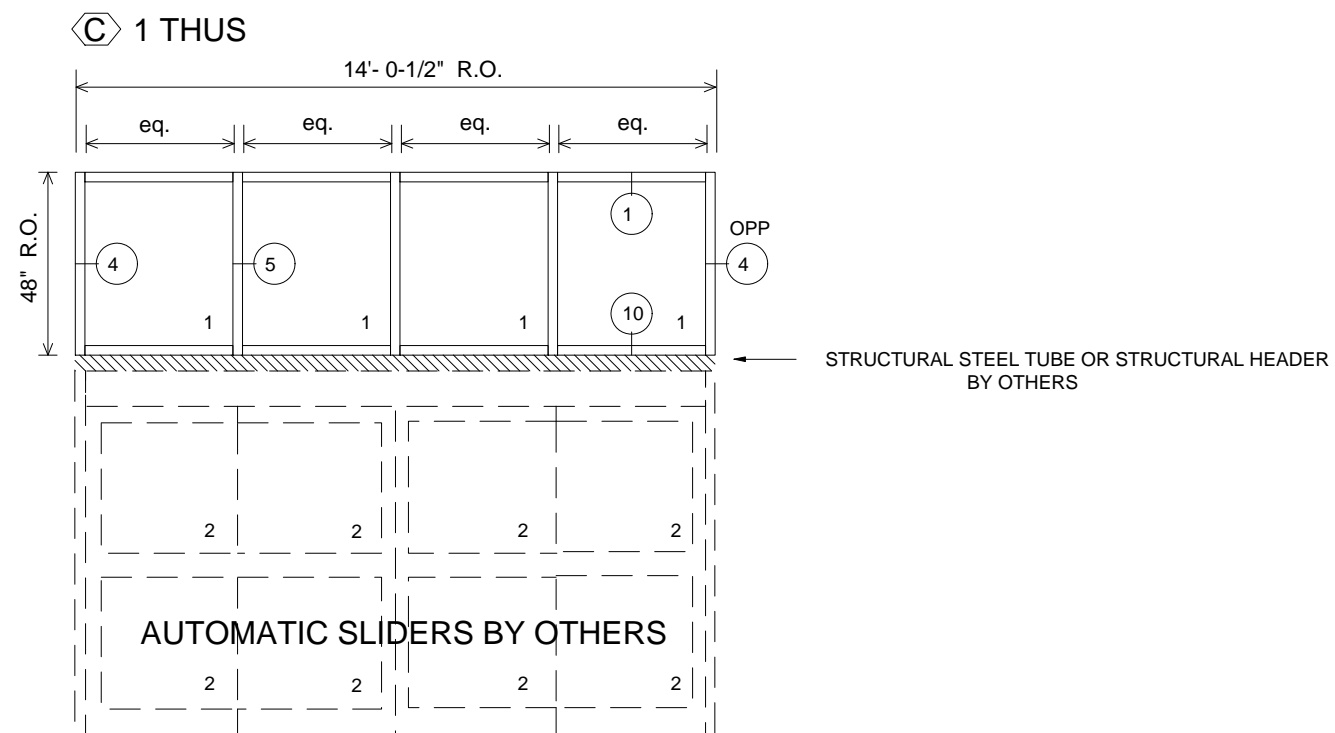
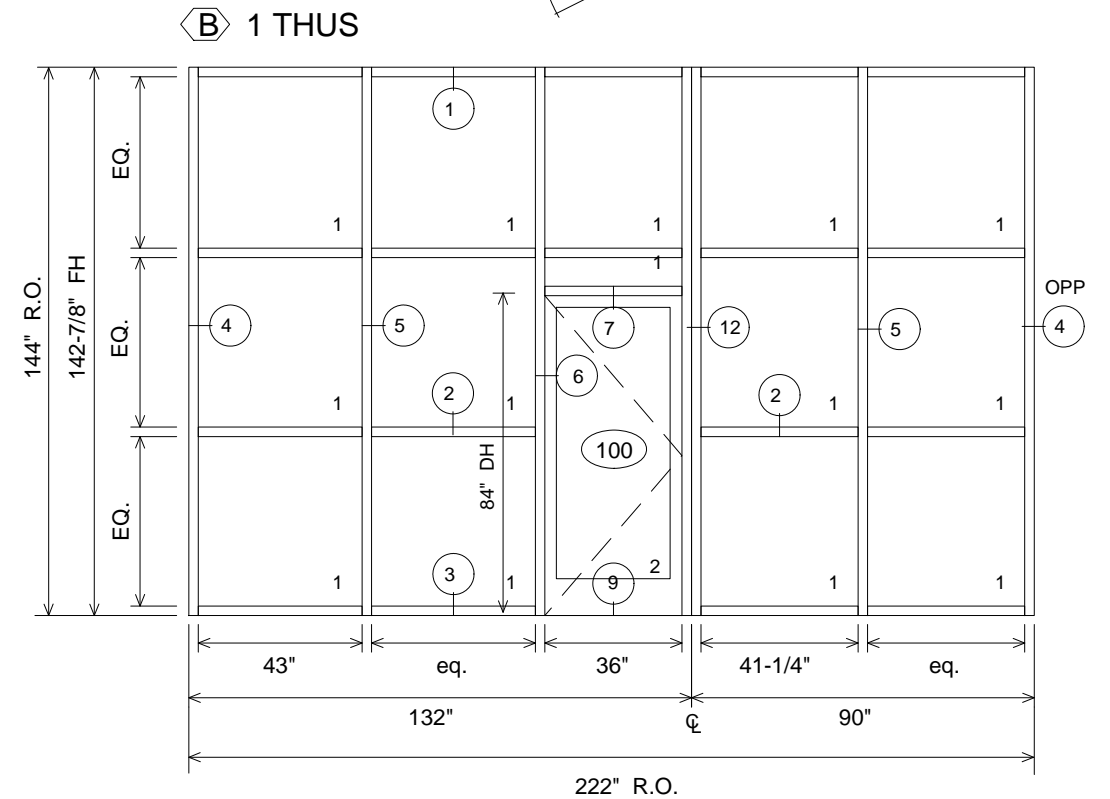
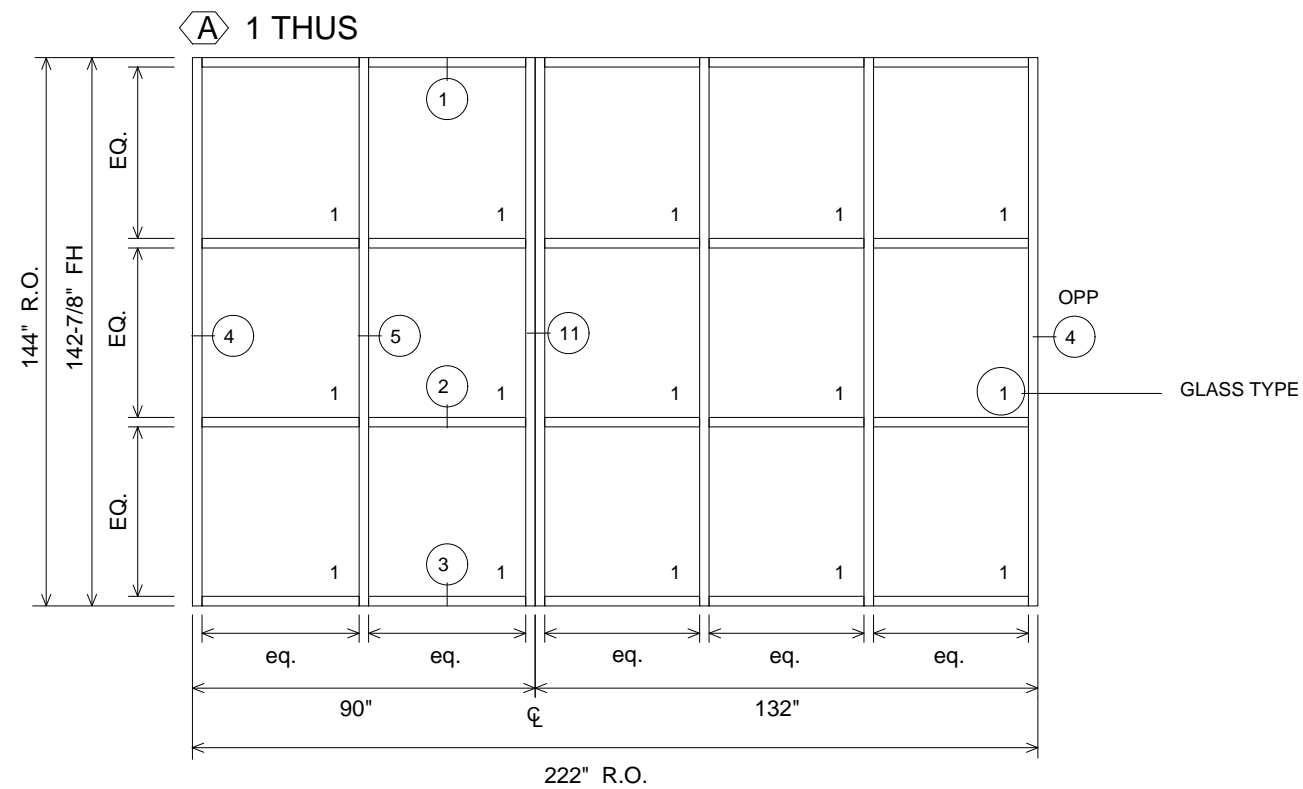
O.D. = OPENING DIMENSION      D.H. = DOOR HEIGHT      EQ. = EQUAL DIMENSION  
F.H. = FRAME HEIGHT      V.O.J. = VERIFY ON JOB      F.W. = FRAME WIDTH

# ALUM DOOR HARDWARE

HW SET:

DRS. (102B)	DOOR - 350IR MED. STILE 10" BOTTOM RAIL
QTY. 1 SINGLE #40 DK BRONZE ANOD FINISH	FRAMING - IR 501, 2-1/2" X 5"
SIZE: 3'-0" X 7'-0"	EXTERIOR GLAZING - 9/16" (G2) IMPACT RESISTANT
<p>1 EA KAWNEER STD CONTINUOUS HINGE            1 EA. KAWNEER STD NORTON 1601 SURFACE MOUNTED CLOSERS            1 EA. KAWNEER STD JACKSON 1686 CONCEALED PANIC DEVICE            1 EA. KAWNEER STD 1/2" X 4" X 36" ALUM. THRESHOLD X MILL FINISH            1 EA. KAWNEER CO-9 PULL HANDLES            1 EA. KAWNEER KEYED CYLINDER EXTERIOR            1 EA. KAWNEER STD BOTTOMRAIL WEATHER-STRIPPING</p>	

# ALL EXTERIOR KAWNEER IR501, 2-1/2" X 5" LARGE MISSILE IMPACT RESISTANT



THIS AUTO SLIDER IS ALL BY STANLEY. A-1 GLASS WILL PROVIDE GLASS & GLAZING

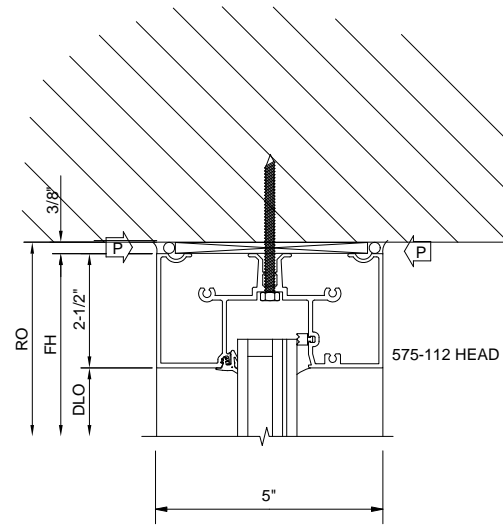
1/4" CLEAR TEMP

**B**

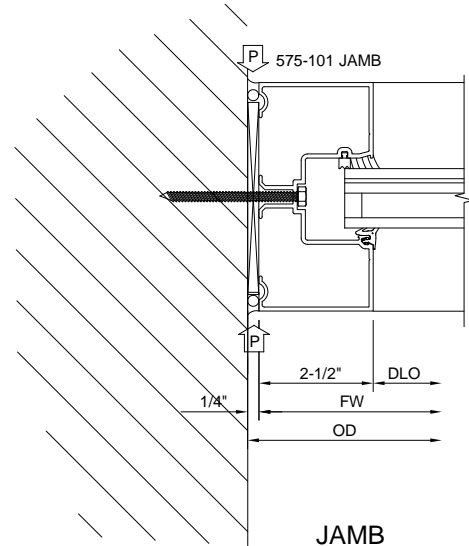
**C**

**A**

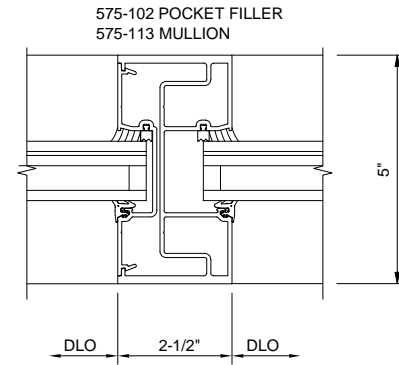
HEAD  
1



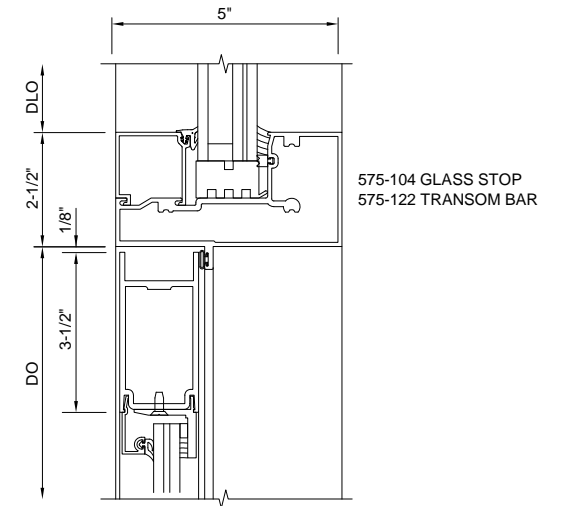
JAMB  
4



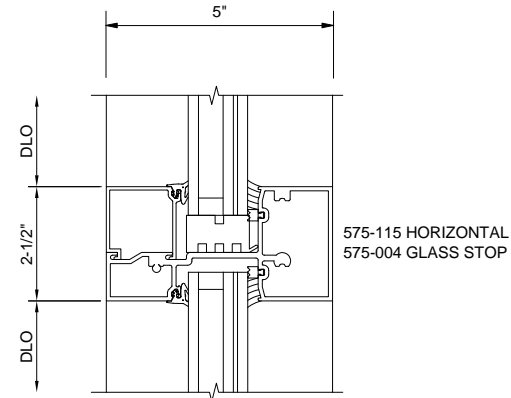
MULLION  
5



DOOR HEADER  
7

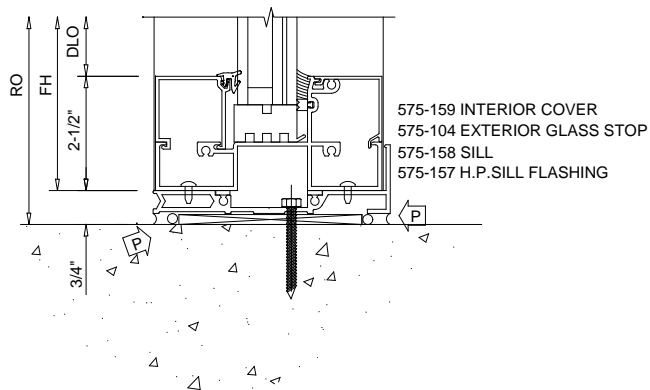


HORIZ.  
2

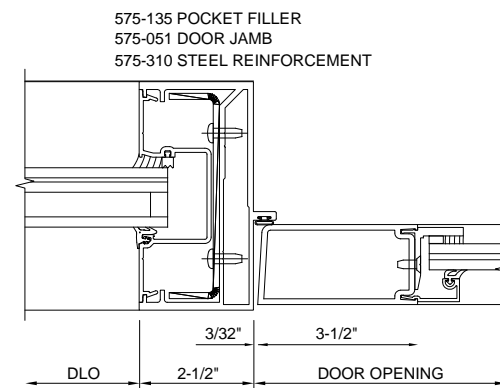


ALL DIMENSIONS SHALL BE FIELD VERIFIED BEFORE FABRICATION AND INSTALLATION.

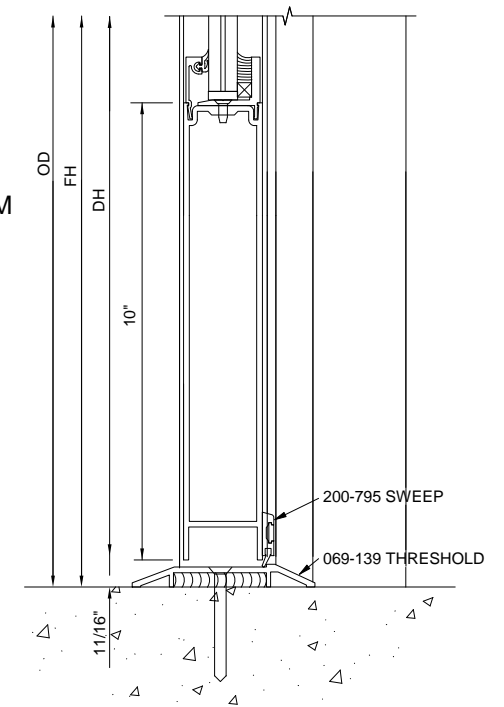
SILL  
3



DOOR JAMB  
6

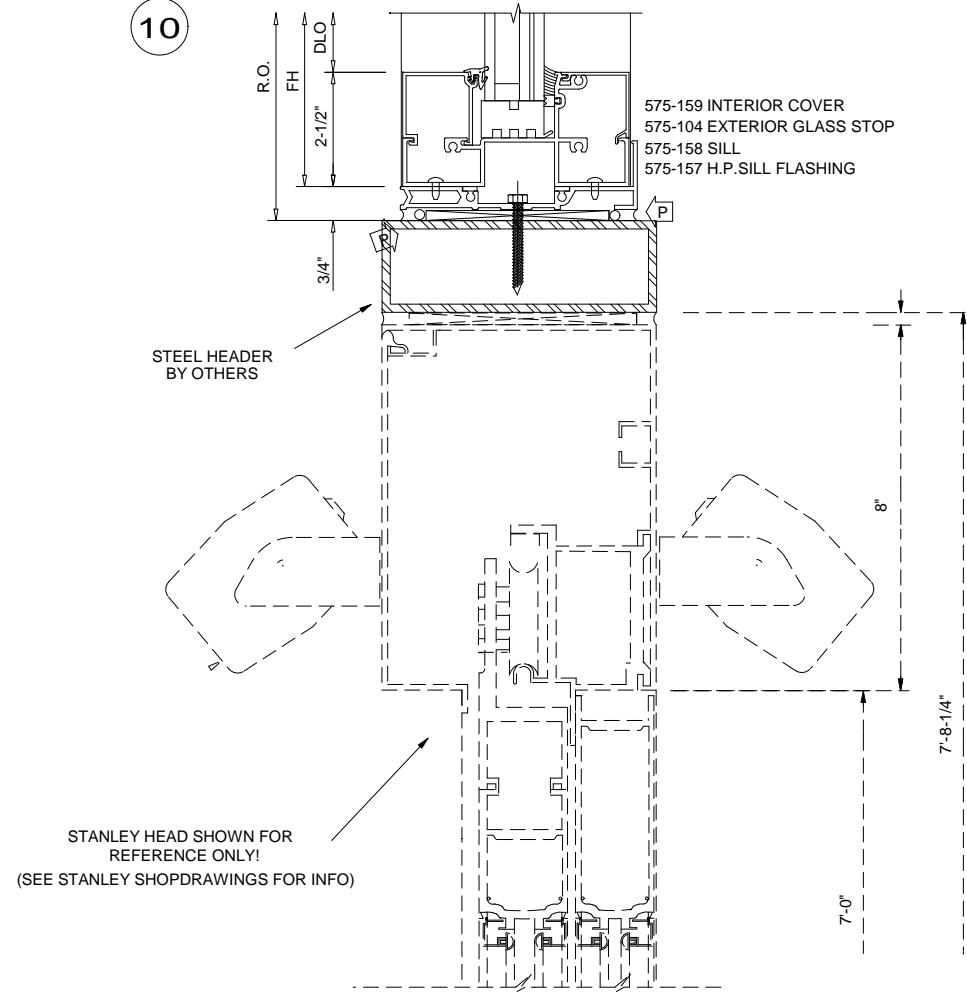


DOOR BOTTOM  
9



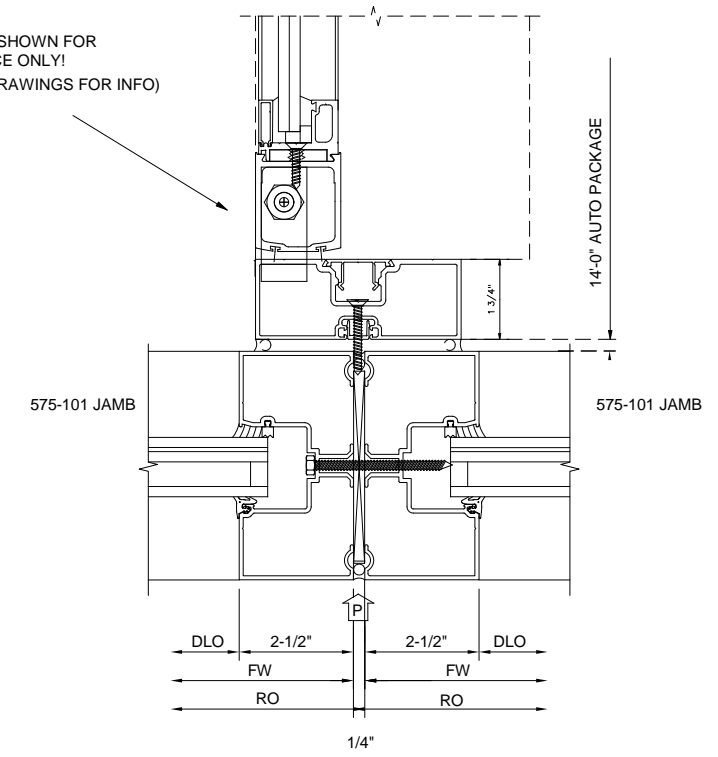
SILL/TRANSOM

10



ALL DIMENSIONS SHALL BE FIELD VERIFIED BEFORE FABRICATION AND INSTALLATION.

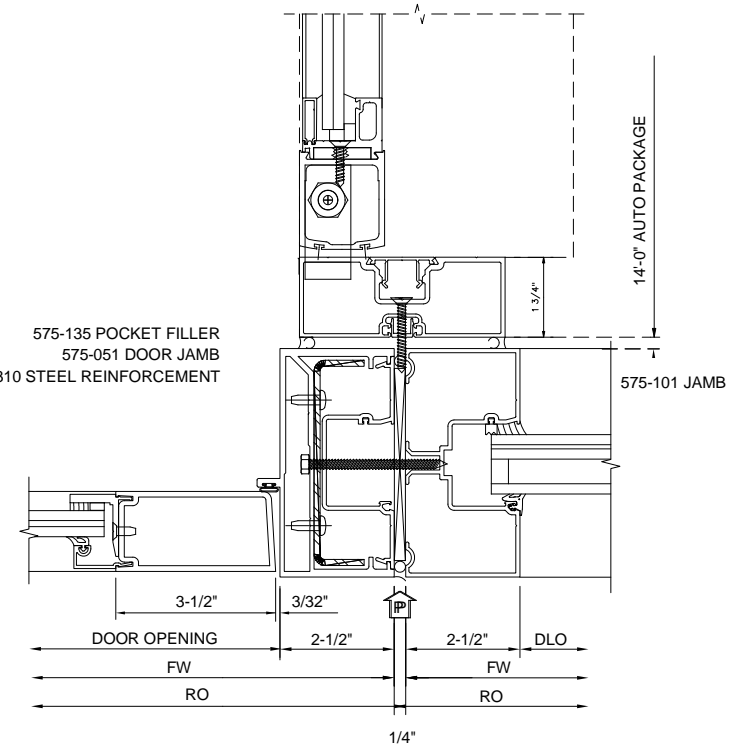
STANLEY JAMB SHOWN FOR REFERENCE ONLY!  
(SEE STANLEY SHOPDRAWINGS FOR INFO)



DOUBLE JAMB

11

575-135 POCKET FILLER  
575-051 DOOR JAMB  
575-310 STEEL REINFORCEMENT



DOUBLE DOOR JAMB

12

# IR 500, 501 & 501UT (Ultra Thermal) Framing Systems and 350 IR Entrances

Single Source  
Hurricane Resistant  
Solutions and More



Tarpon Springs Public Safety Building, Tarpon Springs, FL  
Architect: Gee & Jenson, Engineers, Architects, Planners, Inc., West Palm Beach, FL  
Glazing Contractor: Ashe Glass & Mirror, Temple Terrace, FL

Kawneer provides a single source solution to the growing need for hurricane resistant products on the East and Gulf Coast states from New York through Texas. IR 500, IR 501 and IR 501UT (Ultra Thermal) Framing and 350 IR Entrances are Large Missile Impact resistant, fully tested and easy to fabricate and install. In addition, IR 501UT framing provides improved thermal performance to increase energy efficiency by employing a dual IsoLock® thermal break.

## IR 500, IR 501 and IR 501UT Framing Systems

Our Hurricane Resistant framing systems are designed and engineered for single span storefronts, low- to mid-rise ribbon window and punched opening applications.

## Testing

IR 500, IR 501 and IR 501UT are tested to the High Velocity Hurricane Zone requirements of the International Building Code and Florida Building Code. Meeting ASTM E 1886, and TAS 201 and TAS 203 for impact and cycle pressure differentials. Additionally, all three systems have been tested to ASTM E 331, ASTM E 283, and ASTM E 330 for air, water and structural performance.

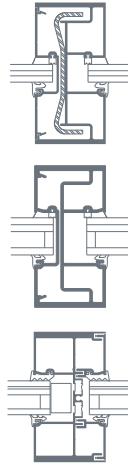
For thermal and acoustical performance, IR 501UT has been tested to AAMA 1503 and AAMA 1801 and ASTM E 1425.

## Fabrication

All three framing systems, IR 500, IR 501 and IR 501UT have a 5" frame depth. IR 500 and IR 501 framing have a 2-1/2" sightline, while IR 501UT framing features a "dual" IsoLock® thermal break and has a 2-3/4" sightline. Screw spline fabrication provides the option to pre-assemble units with controlled shop labor costs and smaller field crews. IR 500, IR 501 and IR 501UT framing systems are center glazed from the outside with an interior silicone seal. Interior dry gaskets for use with the DuPont™\* SentryGlas®\*\* (SG) interlayer is available as an option for all three framing systems.

Infill options are:

- IR 500 frame members accept 9/16" and 5/8" impact resistant glazing and 1/4" non-impact glazing
- IR 501 frame members accept 1-5/16" insulating impact resistant glazing and 1" insulating non-impact glazing
- IR 501UT frame members accept 1-5/16" insulating impact resistant glazing



Tarpon Springs Public Safety Building, Tarpon Springs, FL  
 Architect: Gee & Jenson, Engineers, Architects, Planners, Inc.,  
 West Palm Beach, FL  
 Glazing Contractor: Ashe Glass & Mirror, Temple Terrace, FL



L-R: IR 500, IR 501UT and IR 501 Framing

## 350 IR Entrances

Standard entrances provide the extra strength for applications where more stringent code requirements call for wind-borne debris protection.



## Testing

350 IR Entrances are tested to the High Velocity Hurricane Zone requirements of the International Building Code and Florida Building Code. Meeting ASTM E 1886, and TAS 201 and TAS 203 for impact and cycle pressure differentials.

## Features

350 IR Entrances are 1-3/4" deep and feature standard 3-1/2" vertical stiles, 3-1/2" top rails and 6-1/2" bottom rails. Bottom rail options are 7-1/2" and 10" for aesthetics or applications where higher bottom rails are required to meet local building codes. 350 IR Entrances are single acting and available in singles or pairs to suit any project. The entrances feature the proven Dual Moment welded corner construction with 16 welds per door and Kawneer's Limited Lifetime Warranty.



Standard hinging hardware includes top, bottom and intermediate offset pivots, 1-1/2" pair of butt hinges or continuous geared hinges. MS 1850 three-point locks are standard and MS 1850 with 1871 cylinder operated flush bolts or MS dead lock option for Adams Rite 2086 2-point lock (pairs only) is available. Concealed Vertical Rod Panic hardware choices include: Kawneer 1868, Kawneer Paneline®, Adams Rite G86, Calibre 9100, Jackson 2086, Sargent 8400AD, Von Duprin 9947.

350 IR Entrances accommodate 1/4", 7/16" and 9/16" impact resistant glazing infills using square glass stops with an interior silicone seal. Additional glazing options include 3M VHP Structural Tape and dry/dry glazing gaskets. Pairs include an adjustable astragal, utilizing pile weathering with a polymeric fin at the meeting stiles and all doors include an EPDM blade gasket at the threshold. Kawneer Sealair® bulb polymeric weather stripping is used in the door frames.

The standard IR 500, IR 501 and IR 501UT door jambs, transom bars and headers are available for use with the 350 IR Entrance. Optional door frames include: Trifab® VG 450 center glazed, Trifab® VG 451 center glazed, and 1600 Wall System® sub-frames. All three of these options are for non-sidelite and non-transom applications. Surface closers are standard and concealed closers are optional.

\* DuPont™ and SentryGlas® are trademarks and registered trademarks of E. I. du Pont de Nemours and Company or its affiliates.

Kawneer Company, Inc.  
 Technology Park / Atlanta  
 555 Guthridge Court  
 Norcross, GA 30092

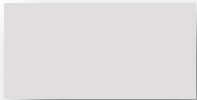
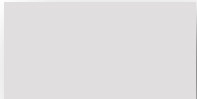


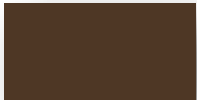


[kawneer.com](http://kawneer.com)  
 770 . 449 . 5555



### Kawneer Anodize finishes

Kawneer gives you a wide variety of anodized finishes with attractive alternatives. The benefit of a durable, anodized finish is married to the beauty of some very dynamic and exciting colors.

At the start of every design, there's a choice of how you want to finish. Contact your Kawneer sales rep for the information on these and other finishes available from Kawneer.

	KAWNEER FINISH NO.	COLOR	ALUMINUM ASSOCIATION SPECIFICATION	OTHER COMMENTS
	#14	CLEAR	AA-M10C22A41	Architectural Class I (.7 mils minimum)
	#17	CLEAR	AA-M10C22A31	Architectural Class II (.4 mils minimum)
	#18	CHAMPAGNE	AA-M10C22A44	Architectural Class I (.7 mils minimum)
	#26	LIGHT BRONZE	AA-M10C22A44	Architectural Class I (.7 mils minimum)
	#28	MEDIUM BRONZE	AA-M10C22A44	Architectural Class I (.7 mils minimum)
	#40	DARK BRONZE	AA-M10C22A44	Architectural Class I (.7 mils minimum)
	#29	BLACK	AA-M10C22A44	Architectural Class I (.7 mils minimum)

**Silicone  
Sealants**

***Dow Corning*<sup>®</sup> Contractors  
Weatherproofing Sealant**

**FEATURES**

- Primerless on most common nonporous building substrates
- Balanced adhesive strength, medium modulus, and high recovery
- Easily gunnable in all weather conditions

**COMPOSITION**

- High-performance, medium-modulus, one-part, neutral-cure silicone sealant

**Medium-modulus silicone joint sealant**

**APPLICATIONS**

- Sealing dynamically moving joints such as expansion and control joints, concrete panel joints, tilt-up panel joints, curtainwall joints, perimeter caulking (windows, doors, panels, EIFS, bedding of mullions, panels, and frames, etc.)

**TYPICAL PROPERTIES**

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.


Method	Test	Unit	Result
<b>As Supplied</b>			
	Colors		20 standard, 19 made-to-order special, and custom colors
	Application Temperature, substrate	°C (°F)	-29 to 49 (-20 to 120)
	Tack-Free Time, 50% RH	hours	3-6
	Curing Time, 3/8" (9 mm) depth, 50% RH at 25°C (77°F)	days	7-14
ASTM C 639	Weep and Sag		Passes
	VOC Content	g/L	35
<b>As Cured</b>			
ASTM C 661	Durometer Hardness, Shore A	points	25 ±5
ASTM D 412	Ultimate Tensile Strength	psi (MPa)	180 (1.24)
ASTM D 412	Ultimate Elongation	percent	550
ASTM C 794	Peel Strength	lb/in (N/m)	20 to 28 (109 to 152)
ASTM C 719	Joint Movement Capabilities, extension/compression	percent	±40
ASTM C 510	Staining		Passes
ASTM C 792	Weight Loss, Cracking, and Chalking after Heat Aging		Passes
	Service Temperature, cured bead	°C (°F)	-40 to 121 (-40 to 250)

**DESCRIPTION**

*Dow Corning*<sup>®</sup> Contractors Weatherproofing Sealant is primerless on most common nonporous building substrates. This unique weather-resistant formulation possesses a balanced adhesive strength, medium modulus, and high recovery, making it ideal to withstand adverse conditions in common installations including moisture, movement, sheer, and de-flection. It is easily gunnable in all weather conditions from -29 to 49°C (-20 to 120°F). Because it requires no mixing and a smaller joint ratio, it is

an economical, high-performance alternative to other sealant options with a ±40 percent movement capability.

*Dow Corning* Contractors Weatherproofing Sealant is available in 20 standard stocked colors (white, limestone, gray, window bronze, sandstone, aluminum, antique white, charcoal, black, bronze, precast white, off white, ivory, buff, mountain fog, anodized aluminum, sandalwood, geographic beige, redwood tan, light bronze) and 19 made-to-order special colors. Custom colors are also available.



**SEALANT · WATERPROOFING  
& RESTORATION INSTITUTE**

Issued to: **Dow Corning Corp.**  
 Product: **Contractors Weatherproofing Sealant**

C719: Pass  Ext:+40% Comp:-40%

Substrate: Glass, Aluminum, Mortar  
*[Dow Primer P used on mortar substrates]*

C661: Rating 30

Validation Date: 11/22/06 - 11/21/11

No. 1106-CWS1111 Copyright © 2006

**SEALANT VALIDATION**  
[www.swrionline.org](http://www.swrionline.org)

## APPROVALS/SPECIFICATIONS

*Dow Corning* Contractors Weatherproofing Sealant meets or exceeds the requirements of:

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O (granite)

## HOW TO USE

Refer to the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on joint design, preparatory work, priming, masking, and application techniques.

## Joint Design

While most urethanes suggest a depth of 1/2" to 5/8" (13 to 16 mm) in wide joints, the superior weathering of this silicone allows a 3/8" (9 mm) depth in wide joints. *Dow Corning* Contractors Weatherproofing Sealant can be used in the following joint configuration:

- Minimum width of joint should be four times the anticipated movement, but not less than 1/4" (6 mm) wide.
- Joint depth to be 1/4" (6 mm) for joints 1/4" to 1/2" (6 to 13 mm) in width.
- Maximum joint depth not to exceed 3/8" (9 mm).
- Maximum joint size approximately 1-1/4" (32 mm) width x 3/8" (9 mm) depth in a single application.
- Consult your local *Dow Corning* representative for specific design requirements.

## Surface Preparation

The joint interface must be clean, dry and free from oils, loose mortar, laitance, form release agents, water-proofings, dampproofings, and other contaminants. A thorough wire brushing, grinding, sandblasting, or solvent cleaning may be required to expose clean, sound, virgin surface.

## Priming

Primer should be applied before installing the backer rod. Applying a bead of silicone sealant to the substrate material to test adhesion prior to general use is always recommended.

*Dow Corning* Contractors Weatherproofing Sealant is primerless on most common nonporous building substrates. Consult *Dow Corning* for priming recommendations on other materials.

In all cases, a sample should be tested and/or test joints should be installed on the project.

## Masking

Areas adjacent to joints should be masked to ensure neat sealant lines and to avoid contact with polished granites, metal, or glass. Do not allow masking tape to touch clean surfaces on which the sealant is to adhere. Masking should be removed immediately after tooling.

## Application

Install backer material or joint filler, setting blocks, spacer shims, and tapes as specified. Apply sealant in a continuous operation, using a positive pressure adequate to properly fill and seal the joint.

## Tooling

Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Tool or strike the sealant with light pressure to spread the material against the backer material and the joint surfaces. A tool with a concave

profile is recommended to keep the sealant within the joint. Do not use liquid tooling aids such as water, soap, or solvents.

Tool the sealant applied at sills so that precipitation and cleaning solutions will not pool.

## Cleaning

Immediately remove all excess sealant and smears adjacent to the joint with xylene or toluene as work progresses.<sup>1</sup>

## Typical Cure

- Cure rate at 25°C (77°F) and 50% RH:
- Tack-free time: 3-6 hours
  - Through cure (3/8" [9 mm] depth): 7-14 days

## Maintenance

Generally, no maintenance is required. If the sealant becomes damaged, replace the damaged portion. *Dow Corning* Contractors Weatherproofing Sealant will adhere to most cured silicone sealant with only a preparatory solvent wipe to remove accumulated dirt. Dirty sealant may be cleaned with a solvent wipe or soap and water.

## HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT [WWW.DOWCORNING.COM](http://WWW.DOWCORNING.COM), OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

<sup>1</sup>Follow solvent manufacturer's recommended safe handling instructions and applicable federal, state, and local regulations.

## **USABLE LIFE AND STORAGE**

*Dow Corning* Contractors Weatherproofing Sealant has a shelf life of 12 months from date of manufacture. Refer to product packaging for “Use By” date.

## **PACKAGING**

*Dow Corning* Contractors Weatherproofing Sealant is available in 10.3-fl oz (305-mL) cartridges (12 per case), 20-fl oz (591-mL) sausage packs (16 per case) and 2-gal (7.5-L) pails.

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

*Dow Corning* Contractors Weatherproofing Sealant is not recommended for:

- Silicone structural glazing
- Application in confined areas without proper ventilation
- Joints under constant water submersion

## **SHIPPING LIMITATIONS**

None.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com), or consult your local Dow Corning Sales Application Engineer.

## **AVAILABILITY**

*Dow Corning* Contractors Weatherproofing Sealant is available from a local Dow Corning distributor. Call 1-800-248-2481 or (989) 496-6000 for the name of the distributor nearest you.

## **LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our

products are beyond our control, this information should not be used in substitution for customer’s tests to ensure that Dow Corning’s products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning’s sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

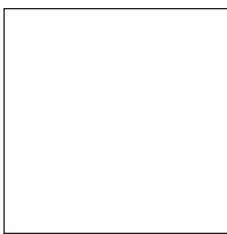
A 5-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Dow Corning Sales Application Engineer for details.

## Sealant Color Selection Guide

- Please check the availability of the different colors.
- Please refer to product literature for applications and technical information.

*The colors shown are a close approximation of the actual sealant colors. However, for best results, submit color samples or swatches to our lab for color testing and matching.*

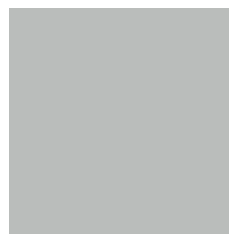
### Standard Colors



White



Limestone



Gray



Window Bronze



Sandstone



Aluminum



Antique White



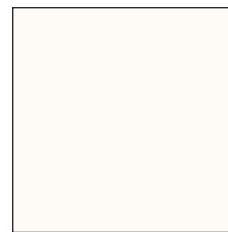
Charcoal



Black



Bronze



Precast White

[Click here for special colors](#)

# Dow Corning® Contractors Weatherproofing Sealant

## Sealant Color Selection Guide

- Please check the availability of the different colors.
- Please refer to product literature for applications and technical information.

*The colors shown are a close approximation of the actual sealant colors. However, for best results, submit color samples or swatches to our lab for color testing and matching.*

### Special Colors



Adobe Tan



Light Bronze



Redwood Tan



Antique Pink



Independence  
Gray



Jefferson City  
Pink



Adobe Accent



Kelly Pink



Gray Stone



Dark Gray



Cascade



Aluminum  
Stone



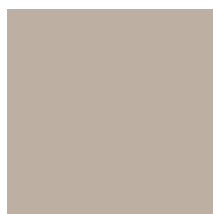
Mile Gray



Mountain Fog



Ivory



Geographic  
Beige



Buff



Blue Spruce

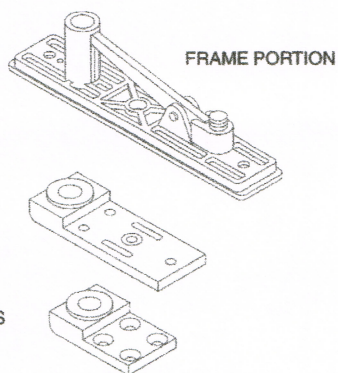
**Custom colors are available.**

[Click here for standard colors](#)

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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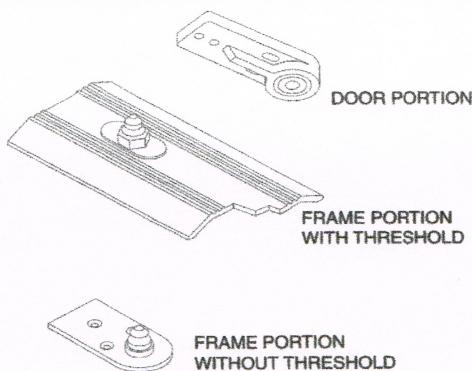


**TOP CENTER PIVOT**

**Description:** (Frame Portion) The "walking beam" frame pivot portion is cast aluminum with a hardened steel pivot pin. The pin is adjustable for additional extension through the transom bar/header. (Door Portion) Both door pivot portions are machined aluminum with oilite bronze self-lubricating bearings. All top center hung pivot parts are concealed.

**Application:** This pivot assembly is used in conjunction with center hung doors with floor closers. The adjustable portion for the 190 Narrow Stile Door provides for a one time only adjustment. Dimension 3" (76.2) long, 1-7/16" (36.5) wide, and 1/2" (12.7) at its thickest point. The 350 Medium Stile and 500 Wide Stile door pivot portion is nonadjustable. Dimensions 2-3/8" (60.3) long, 1-7/16" (36.5) wide, and 1/2" (12.7) at its thickest point.

**Finish:** The *frame portion* is natural cast aluminum with dress plate to match color of frame. The machined *door portion* is mill finish.

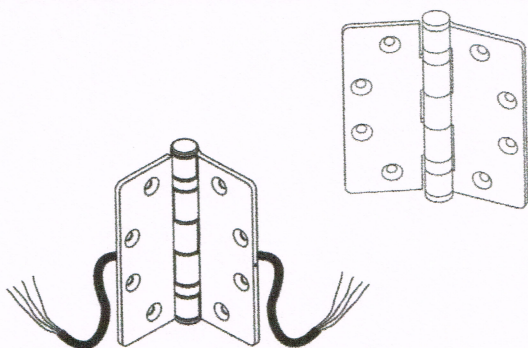


**BOTTOM CENTER PIVOT**

**Description:** The low profile center pivot for use with a threshold has an adjustable stainless steel pivot pin that is mounted and locked into the threshold. The center pivot for use without a threshold has a stainless steel pivot pin press fit into a stainless steel plate. The door portion is comprised of a roller bearing press fit into a cast aluminum pivot block.

**Application:** Both pivot portions, with or without threshold, are used on doors with concealed overhead closer control. On entrances with thresholds the pivot is anchored securely into the threshold. The frame portion is adjustable for proper door and frame clearance. The frame portion for use on doors without threshold is fastened directly to the floor. When no threshold is used, height adjustment is obtained by shimming the pivot block. The door pivot block is securely mounted to the bottom rail web.

**Finish:** Mill finish is standard for all bottom center pivot parts.

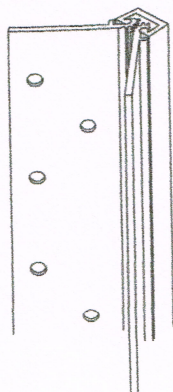


**BUTT HINGE**

**Description:** Commercial quality 300 series stainless steel hinge with leaves of five knuckle two ball bearing construction. The hinge barrel is enclosed with button tips and incorporates a non-removable pin. The hinge is a radius corner, standard template butt of 4-1/2" x 4" (114.3 x 101.6). The hinge leaf thickness is 0.134 inches (3.4). It is also available in electric transfer model.

**Application:** The butt hinge is fully mortised into the door hinge stile and frame hinge jamb. Reinforcing plates are used in both the frame jamb and hinge stile for secure screw anchorage available. The use of an intermediate butt (1-1/2 pair per leaf) is suggested for doors in high traffic areas or for doors over 7'-6" (2286).

**Finish:** Hinges are powder painted to blend with door finish.

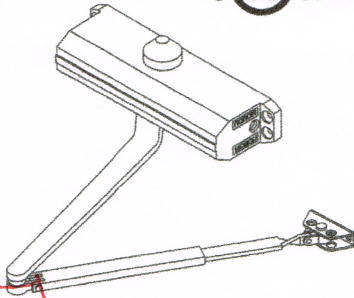


**CONTINUOUS HINGE**

**Description:** Aluminum Continuous Geared Hinges provides long-lasting solutions for high-traffic and high-impact doors. The continuous geared hinge extends the full length of the door and frame. The two center gears form a rotating joint and the door weight is supported and cushioned by molded bearings evenly spaced along the entire length of the interlocking leaves.

**Application:** The continuous geared hinge is the hinge to suitable in high-traffic and high-impact areas. The hinge is surface applied to the frame and door stile. Fasteners are staggered at approximately 6" (152.4mm) on center. Compatible with Standard Entrance, Heavy Wall™, Tuffline™, Flushline™ and Insulclad™ Thermal Entrances.

**Finish:** Available in #17 Clear, #29 Black, and #40 Dark Bronze anodized finishes. Painted finishes available on a custom basis.

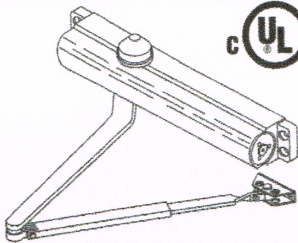


### NORTON 1601 and NORTON 1601 BF

**Description:** The Norton 1601 and 1601BF are ANSI Grade 1 certified and is the standard offering in Kawneer's entrance package program. The compact closer design blends well with narrow aluminum door and frame sightlines. This versatile and rugged surface closer features hydraulic spring power controlled rack and pinion operation. The Norton 1601 offers adjustable spring sizes 3 - 6 while the Norton 1601BF offers adjustable spring sizes 1 - 4. The Norton 1601BF is ADA compliant for interior doors. The closer is non-handed, with separate adjustment for sweep and latch ranges are standard, an adjustment screw controls the back-check. Drop plates, corner brackets, and hold open arms are optional accessories.

**Application:** Closer mounting options are: Hinge (Pull) Side Mounting; the closer is mounted to the top door rail with the arm attached to the transom bar/header. Top Jamb (Push Side) Mounting; the closer is mounted to the transom bar/header. Parallel Arm (Push Side) Mounting; the closer is mounted to the top door rail with the arm and soffit plate attached to the transom bar/header. Parallel Arm mounting folds the closer arm parallel to the transom bar/header and minimizes the arm projection. The closer is suitable to areas of medium traffic volume.

**Finish:** Painted to match #17 finish and #40 finish.

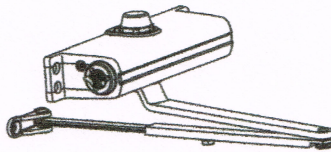


### NORTON 8101

**Description:** A versatile, compact surface closer featuring spring and hydraulic powered rack and pinion operation. The closer incorporates field adjustable spring power and adjustable backcheck cushioning. The power can be adjusted by 50% by rotating the nut on the end of the closer to achieve an effective closer range of a size 2 through 6. The closer is non-handed with individual adjustable sweep speed and latch speed controls.

**Application:** See 1601 closer above.

**Finish:** Painted to match #17 finish or #40 finish.

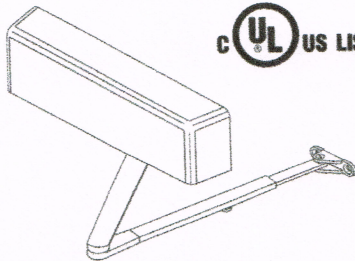


### LCN 1260 SERIES

**Description:** A versatile closer incorporating spring and hydraulic powered rack and pinion operation with a 1-5 spring power adjustment. The 1261 is a one-piece cast iron closer to ensure reliability, extra leak protection, and longer closer life. An adjustable backcheck cushion is also standard. The 1261 is offered in a full range of arm options including heavy duty, extra duty, hold open, cushion and stop, and spring cushion. Adapter plates, cover, and other accessories are also offered. As with all LCN closers, a "peel and stick" template comes standard with each closer for faster closer installation.

**Application:** See 1601 closer above.

**Finish:** Painted to match #17 finish or #40 finish.

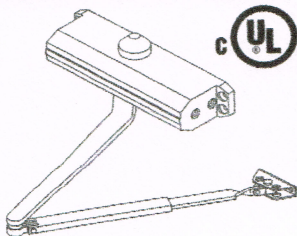


### LCN 4040 XP

**Description:** A versatile closer incorporating spring and hydraulic powered rack and pinion operation. The closer spring power is field adjustable over a wide range for various power requirements. An adjustable back check cushions the opening swing prior to 90 degrees in all applications. Adapter plates, hold open arms, and other accessories are available.

**Application:** Closer mounting options are: Hinge (Pull) Side Mounting; the closer is mounted to the top door rail with the arm attached to the transom bar/header. Top Jamb (Push Side) Mounting; the closer is mounted to the transom bar/header. Parallel Arm (Push Side) Mounting; the closer is mounted to the top door rail with the arm and soffit plate attached to the transom bar/header. Parallel Arm mounting folds the closer arm parallel to the transom bar/header and minimizes the arm projection. The closer is adaptable to special applications and medium and heavy traffic volume.

**Finish:** Painted to match #17 finish, #29 finish or #40 finish.



### FALCON SC 60

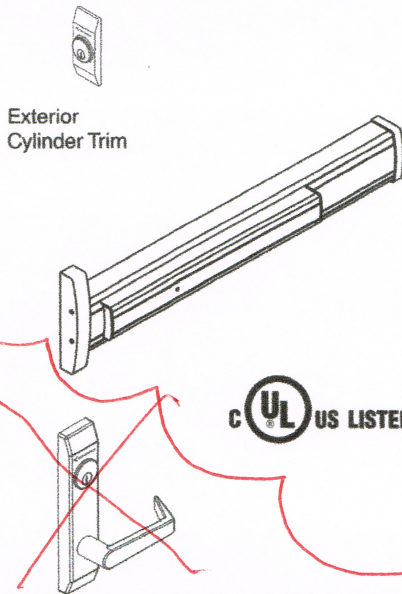
**Description:** This economical and adjustable spring surface closer features hydraulic spring power controlled rack and pinion operation. The closer is non-handed, with separate adjustments for sweep, latch and back check. The adjustable power shoe allows total closer power adjustment of 15%. Plates, Parallel Arms and Hold-Open Arms are optional accessories.

**Application:** See 1601 closer above.

**Finish:** Painted to match #17 finish or #40 finish.

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### KAWNEER 1686 CONCEALED ROD EXIT DEVICE

**Description:** The Kawneer 1686 Concealed Rod exit device is an exclusive to Kawneer customers. This exit device is UL Listed, is Hurricane Impact tested and Florida Product Approved. This device has the feature of rod adjustment without panel removal. Depression of the touchbar on the interior retracts the concealed rods from the transom bar and the threshold, allowing egress from the building. Upon closing, the top rod is released and frees the bottom rod to engage the threshold. The door is now relocked. A quick single point "dogging" feature in the housing deactivates the device and permits unrestricted traffic flow. Vertical rods and latch mechanisms are concealed in the vertical door stile. A 1-5/32" diameter mortised 5-pin cylinder with trim is required.

**Application:** Designed for use on single or pairs of doors. It is suited for medium and high traffic areas. Available on 190, 350, and 500 Standard Entrances, 350/500 IR, 350/500 Heavy Wall™, 350/500 Heavy Wall™ IR Entrances, and AA™ 250/425 Thermal Entrances.

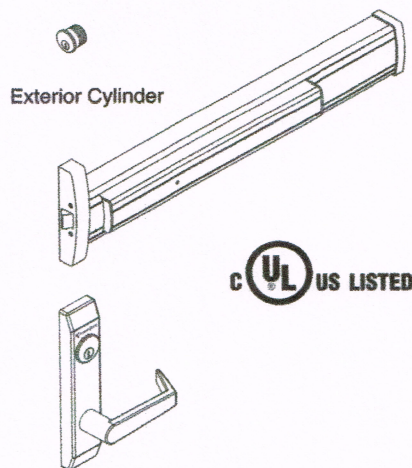
**Dimensions:** Center line of touchbar to bottom of door 40" (1016); height 3-3/16" (81); Projection 2-3/4" (70); Projection when dogged 1-13/16" (46).

**Finish:** Clear and dark bronze.

~~Optional:~~

- ~~• 1686 EL version for access control applications.~~
- ~~• Cylinder dogging in lieu of hex key dogging.~~
- ~~• Exterior lever trim handle.~~

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### KAWNEER 1786 RIM EXIT DEVICE

**Description:** The Kawneer 1786 Rim exit device is an exclusive to Kawneer customers. This exit device is UL Listed. This device has the same basic features as the concealed vertical rod device above. Its difference is in the latching mechanism. A 5/8" throw latch bolt in the rim of the housing engages an aluminum jamb or removable mullion mounted strike. Depression of the touch bar on the interior retracts the latch bolt and permits egress from the building.

**Application:** Designed for use on single or pairs of doors. It is suited for medium and high traffic areas. Available on 190, 350, and 500 Standard Entrances, and 350/500 Heavy Wall™ Entrances, and AA™ 250/425 Thermal Entrances.

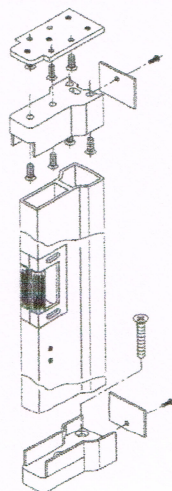
**Dimensions:** Center line of touchbar to bottom of door 40" (1016); height 3-3/16" (81); Projection 2-3/4" (70); Projection when dogged 1-13/16" (46).

**Finish:** Clear and dark bronze.

**Optional:**

- 1786 EL version for access control applications.
- Cylinder dogging in lieu of hex key dogging.
- Exterior lever trim handle.

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### RM86 REMOVABLE MULLION

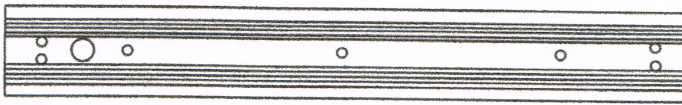
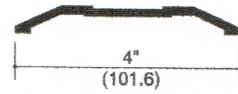
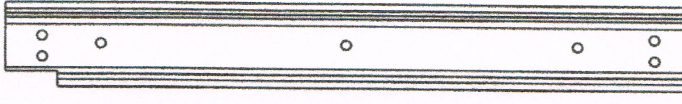
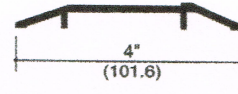
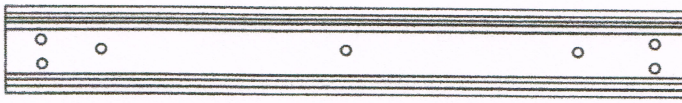
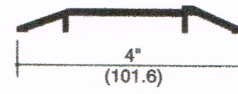
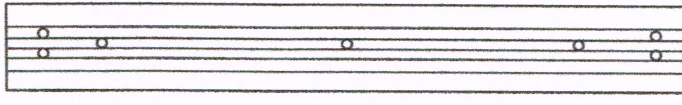
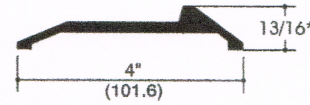
**Description:** This removable mullion is used with Kawneer 1786 Rim Exit Device.

**Application:** Designed for use with pairs of doors.

**Finish:** #17 Clear and #40 Bronze anodized.

**KAWNEER THRESHOLDS**

**Description/Application:** Kawneer thresholds are factory fabricated and prepared for the appropriate hinging and locking hardware. They are extruded-mill finish aluminum and are engineered for maximum strength as an integral part of the door and frame. Threshold height from the finished floor is 1/2" (12.7mm) except as noted.

	<p><b>CENTER HUNG</b> For Concealed Overhead Closer</p>  <p>4" (101.6)</p>
	<p><b>OFFSET PIVOT</b> For Overhead Closer</p>  <p>4" (101.6)</p>
	<p><b>BUTT HUNG</b> For Overhead Closer</p>  <p>4" (101.6)</p>
	<p><b>OPTIONAL</b> For Offset Pivot and Butt Hung Doors</p>  <p>4" (101.6)</p> <p>13/16*</p>

\* On units that require ADA compliance the standard 1/2" high, offset pivot/butt hung threshold with bottom sweep will be supplied.

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### KAWNEER STANDARD "ARCHITECTS CLASSIC" HARDWARE

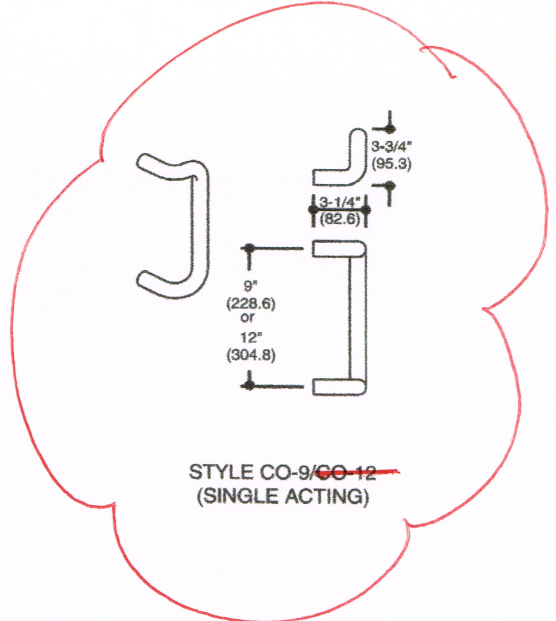
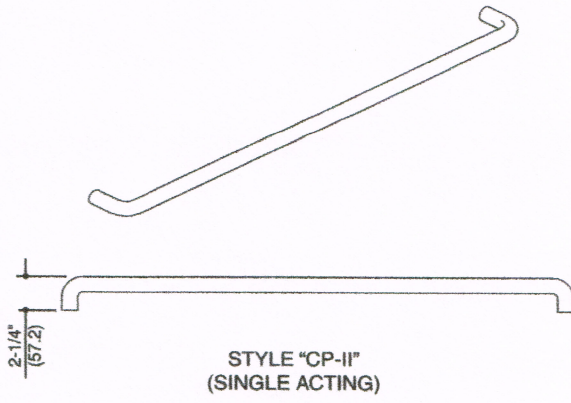
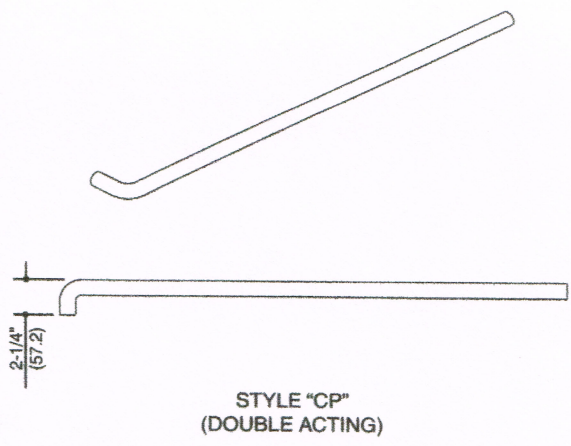
**Description:** Contemporary styled 1" (25.4) round bent bar is the basis for this hardware line. A 90 degree offset pull is available in two centerline dimensions: 9" (228.6) and 12" (304.8).

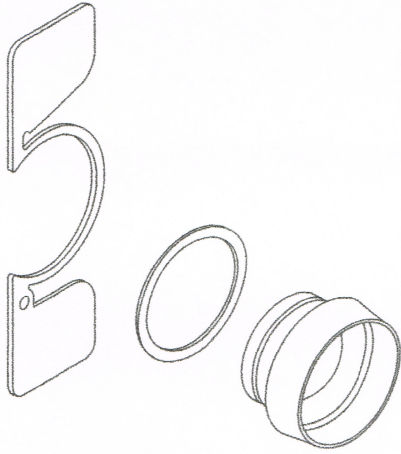
**Application:** For use with single or double acting doors.  
A CP single bend push bar and a pull handle for single acting doors.  
Two CP push bars or two pull handles mounted back to back for double acting doors.  
Secure attachment is obtained by through the door mounting.

- Finish:** Hardware is available in:
- #14 Clear anodize
  - #29 Black anodize
  - #40 Dark Bronze anodize
  - #44 Bronze - US10B oil rubbed
  - #45 Stainless Steel - US32 polished
  - #46 Stainless Steel - US32D dull
  - #47 Bright Brass (PVD) - US3

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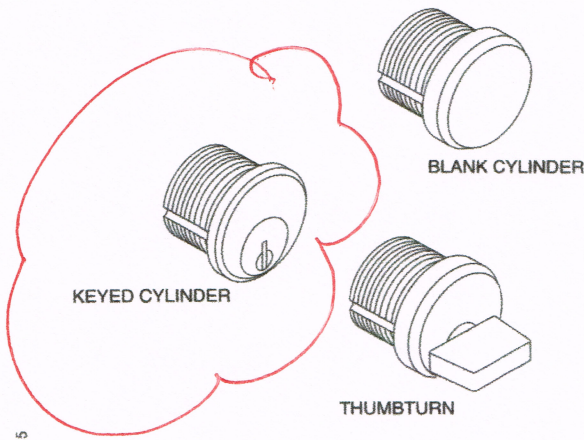
### CYLINDER GUARD

**Description/Application:** The cylinder guard is a collar designed to protect the vulnerable soft cylinder. Its hardened steel material and tapered shape offers poor grip for prying or twisting attempts. The guard is held in place with a hardened steel retainer plate for additional security. For use with the Adams Rite MS 1850, 1850-050, +1890, or 4510 locks and latches.

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### KAWNEER LOCK CYLINDERS

**Description:** Kawneer standard cylinders are 5 pin-mortised with a diameter of 1-5/32" (29.4). As shown in the illustration, the cylinders are key operated, thumbturn operated or blank. Keyed alike cylinders are available to meet various keying schemes. The cylinder scalps and thumbturns are finished to match the door.



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DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Kawneer Company, Inc.**  
**555 Guthridge Court**  
**Norcross, GA 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 and accepted by Miami-Dade County PERA - Product Control Section 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. PERA 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 "IR-501 Flush, Dry and Wet Glazed" Aluminum Storefront System – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1461, titled "IR501 Aluminum Store Front System - Large Missile Impact" Sheets 1 thru 9 of 9, dated 07/14/06, with revision C1 dated 09/02/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaeffer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large Missile Impact Resistant**

**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.

**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 and renews** NOA # 09-0218.07 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-0915.06  
Expiration Date: February 15, 2017  
Approval Date: October 27, 2011  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1461**, titled "IR501 Aluminum Store Front System - Large Missile Impact" Sheets 1 thru 9 of 9, dated 07/14/06 with revision C1 dated 09/02/11, prepared by W. W. Schaeffer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaeffer, 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) 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 series IR-501 aluminum flush glazed storefront system, specimens #1, 2, 2A, 5, 6, 7 and 8, by Hurricane Test Laboratory LLC, Test Report No. **HTL-G049-0201.08**, dated 03/07/07, signed and sealed by Vinu Abraham, P.E.

*(Submitted under previous NOA#09-0218.07)*

2. 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 a series IR-501 aluminum flush glazed storefront system, prepared by Hurricane Test Laboratory LLC, Test Report No. **HTL-G049-0303.07**, dated 03/07/07 with amendment letter dated 09/07/07, all, signed and sealed by Vinu Abraham, P.E.

*(Submitted under previous NOA#09-0218.07)*

3. 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, FBC, TAS 201-94
  - 5.) Cyclic Loading Test, per FBC, TAS 203-94

along with marked-up drawings and installation diagram of a series IR-501 aluminum flush glazed storefront system, prepared by Hurricane Test Laboratory LLC, Test Reports No. **HTL-G049-1201.05** and **HTL-0049-0111.06** dated 04/18/06, signed and sealed by Vinu Abraham, P.E.

*(Submitted under previous NOA#09-0218.07)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0915.06

Expiration Date: February 15, 2017

Approval Date: October 27, 2011

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 02/10/09 and revised on 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

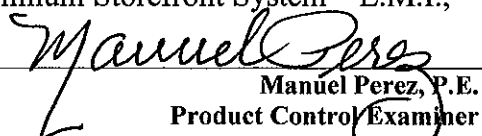
1. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.
2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14
3. Notice of Acceptance No. **10-0413.04** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/10, expiring on 01/14/12.
4. **Exterior Gasket: TREMCO Part No. TR-14815E (Kawneer Part No. 127-126)**, EPDM Dense Rubber Extrusion with 70 durometer ext. glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412**, 1500 PSI, **ASTM D395B**, 22 HRS 158°F.
5. **Interior Gasket: TREMCO Part No. TR-14270E (Kawneer Part No. 127-121)**, Closed Cell ("sponge") EPDM rubber compound, interior glazing gasket complying with **ASTM C509** Option II specification compression deflection limit 20-24psi.
6. **Exterior Gasket: TREMCO Part No. TR-14271E (Kawneer Part #027-074)**, EPDM Dense Rubber Extrusion with 70 durometer glazing gasket complying with **ASTM C864** Option II specs., **ASTM D412** 1600 PSI, **ASTM D395B**, 22 HRS 158°F.

**F. STATEMENTS**

1. Statement letter of conformance to FBC-2007 and FBC-2010, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 09/02/11, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Report No. **HTL-G049-0201-08**, issued by Hurricane Test Laboratory, Inc., dated 10/14/08, signed Jose E. Colon, E.I.
4. Test Proposal **#07-3288**, 10/11/07, issued by BCCO, signed by Ishaq I. Chanda, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **09-0218.07**, issued to Kawneer Company, Inc. for their Series "IR-501 Flush, Dry and Wet Glazed" Aluminum Storefront System – L.M.I., approved on 04/15/09 and expiring on 02/15/12.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0915.06

Expiration Date: February 15, 2017  
Approval Date: October 27, 2011

**GENERAL NOTES:**

1. THESE STORE FRONT 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 WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT STORE FRONT SYSTEMS.
5. THESE STORE FRONT 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 STORE FRONT SYSTEMS.
7. ALL ANCHORS SECURING STORE FRONT 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.

**CORNER & FRAME END CONSTRUCTION:**

**FRAME HEAD CORNER (APPLICABLE TO ITEM #1A):** HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTFs FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

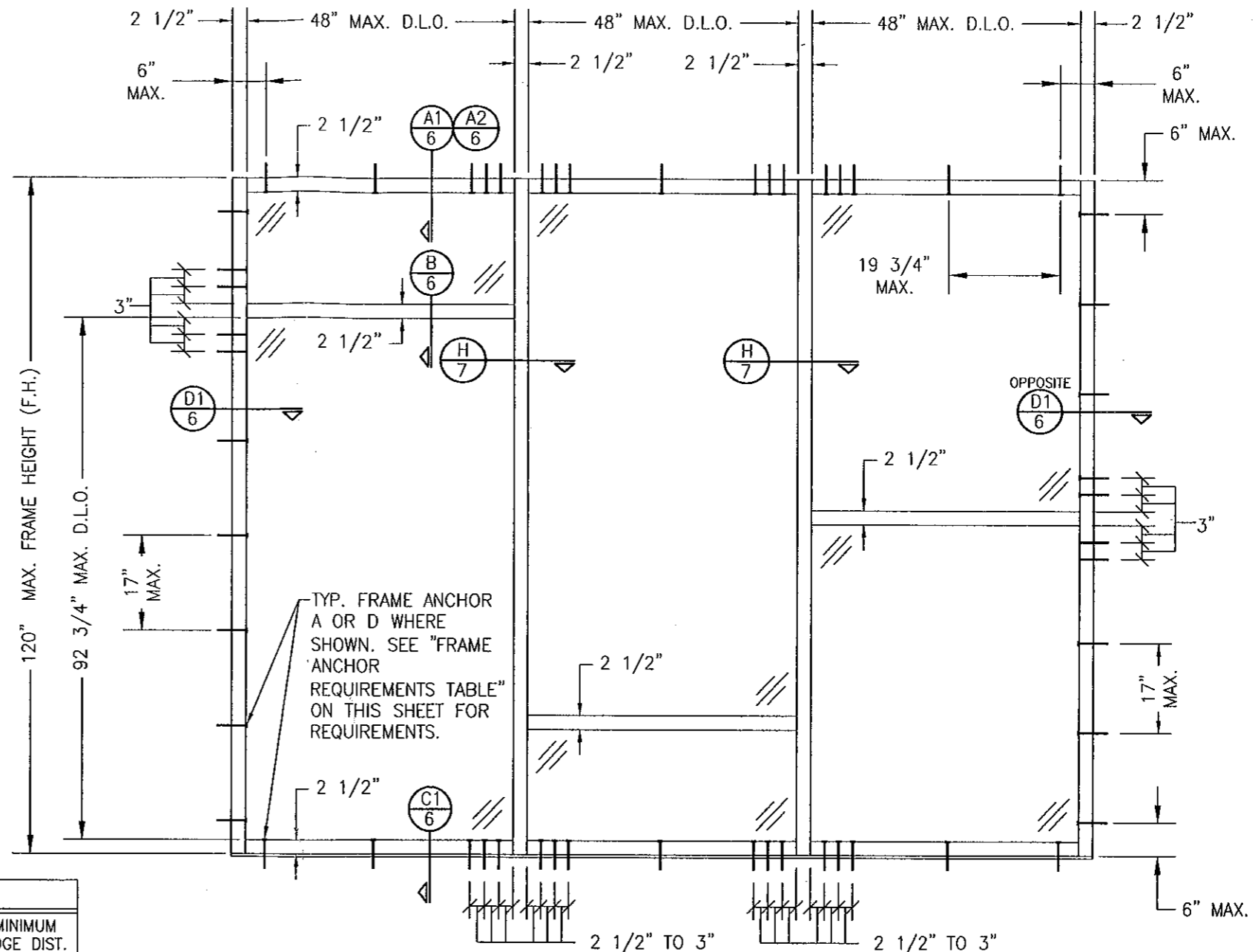
**FRAME HEAD CORNER (APPLICABLE TO ITEM #1B):** HEAD IS MITER CUT, BUTTED TO SIDE, FASTENED WITH TWO(2) NO. 12 X 1 1/2" PHTFs FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**FRAME SILL CORNER:** SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" PHTFs FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**FRAME DOOR JAMB SILL CORNER:** SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 1 JAMB PIVOT ASSEMBLY. EACH PIVOT ASSEMBLY WAS FASTENED TO THE SIDE WITH THREE(3) NO. 12-24 X 5/8" FHMS. THE THRESHOLD IS THEN FASTENED TO PIVOT ASSEMBLY WITH TWO(2) NO. 12-24 X 3/8" FHMS & SEALED WITH SILICONE.

**HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEMS #6A & #7):** HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH THREE(3) NO. 12 X 1" SS PHTFs FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

**HORIZONTAL FRAME MULLION END (APPLICABLE TO ITEM #6B):** HORIZONTAL IS SQUARE CUT, BUTTED TO SIDE, JOINED VIA A SHEAR BLOCK (PART #21). THE SHEAR BLOCK IS FASTENED TO THE VERTICAL FRAME MEMBER WITH FOUR(4) NO. 12 X 1 7/8" FHFT TYPE B SCREWS. THE HORIZONTAL MEMBER IS FASTENED TO THE SHEAR BLOCK WITH THREE(3) NO. 12 X 1" FHFT TYPE AB SCREWS. EACH CORNER IS SEALED WITH DOW 795 SILICONE SEALANT.



**FRAME ANCHOR REQUIREMENTS TABLE**

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. 12 SMS SCREWS	1 1/4"	3/4"
B	MIN. 1/8" THICK A36 STEEL (MIN. $F_y = 36$ ksi)	(2) 1/4"-20 SELF DRILLING/TAPPING SCREW	FULL	3/4"
C	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2 1/2"
D	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4"-20 SELF DRILLING/TAPPING SCREW	FULL	1/2"
E	MIN. C90 BLOCK	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
(4) F	MIN. 3000 P.S.I. CONCRETE	(3) 3/8" WEDGE/SLEEVE ANCHOR	2 1/2"	3"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD 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

(3) WEDGE/SLEEVE ANCHORS SHALL BE RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT 3, OR POWERS RAWL POWER BOLT (STEEL OR S.S.)

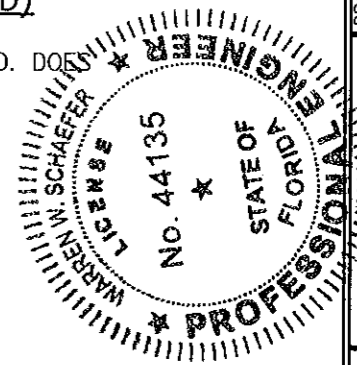
(4) ANCHOR TYPE "F" IS ONLY APPLICABLE FOR USE WITH THE SILL ANCHOR BLOCK AT THE VERTICAL DOOR MULLION BOTTOM END.

**EXTERIOR ELEVATION  
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY  
(WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)**

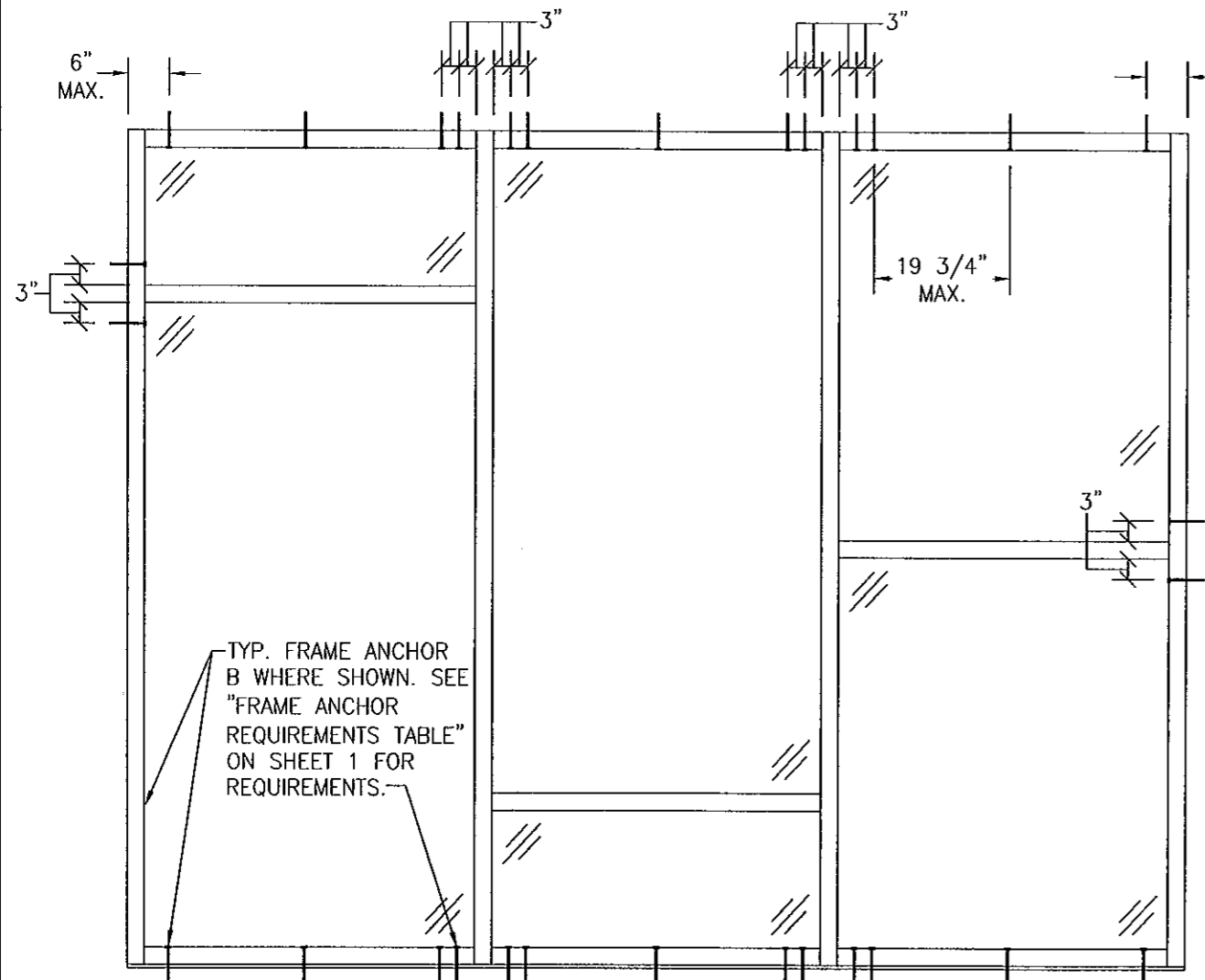
SCALE: 1/2"=1'-0"  
HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING D.L.O. DOES NOT EXCEED 48" WIDE AT EACH PANEL. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

**ALLOWABLE DESIGN PRESSURE**  
+/-65 PSF

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No. 11-0915.06  
Expiration Date FEB. 15, 2017  
By *Maurice J...*  
Miami/Dade Product Control

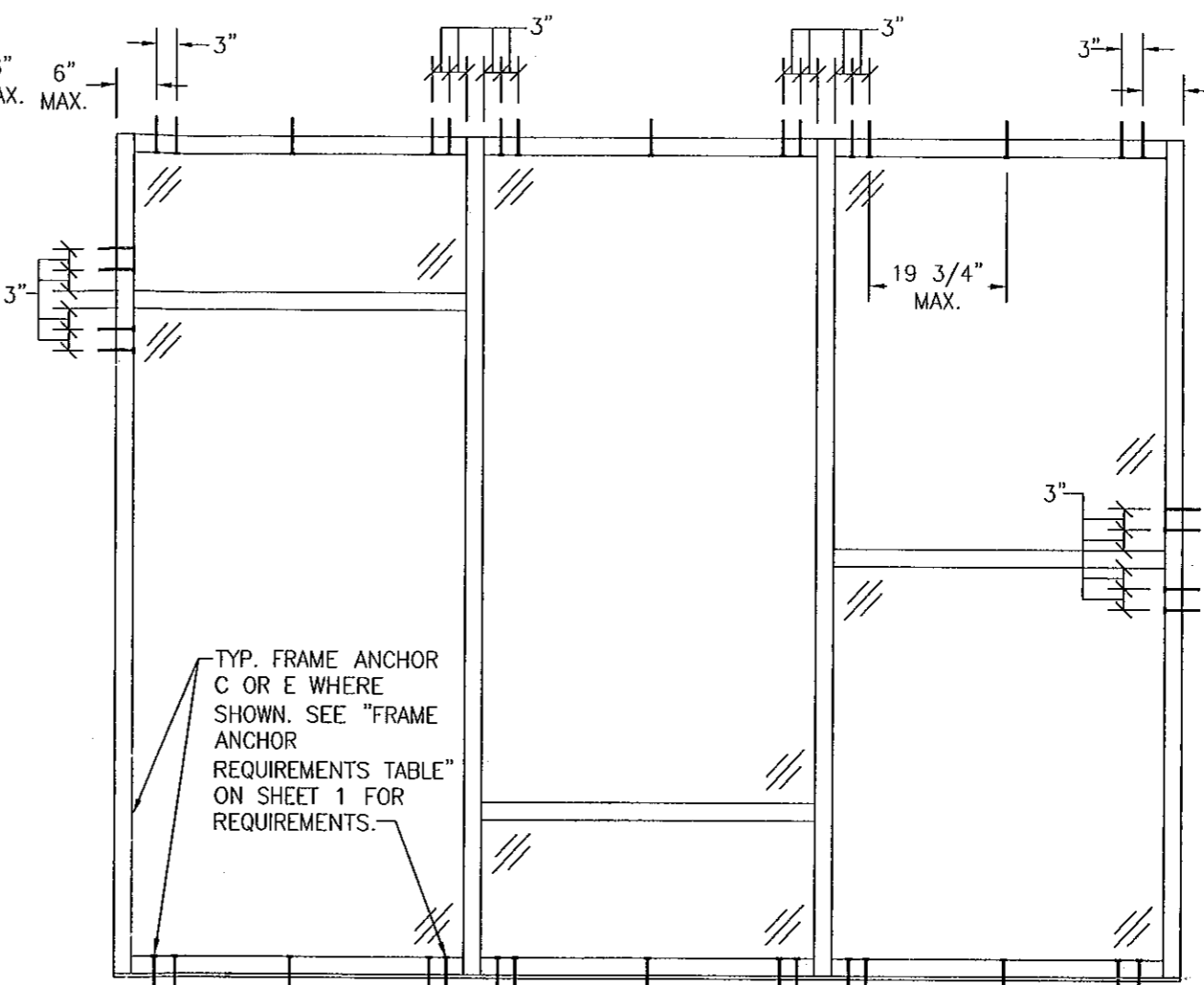


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DATE: 07/02/07	DATE: 07/14/06
PLANT: 1-24	
REVISION DESCRIPTION	NO.
A1 ADDED DRY GLAZED OPTION	
A2 REVISED ANCHOR CONDITIONS	
B1 ADDED RADIUS FRAME MEMBER & NEW TRUSSOM BAR	
C1 UPDATE TO PRESENT STANDARDS	
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING NO. 1461	REV. C
SHEET NO. 1	OF 9



**EXTERIOR ELEVATION**  
**MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY**  
**(WITH ANCHOR TYPE "B" TO STEEL)**

SCALE: 1/2"=1'-0"  
 FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.

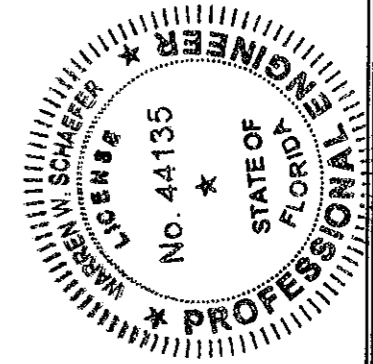


**EXTERIOR ELEVATION**  
**MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY**  
**(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)**

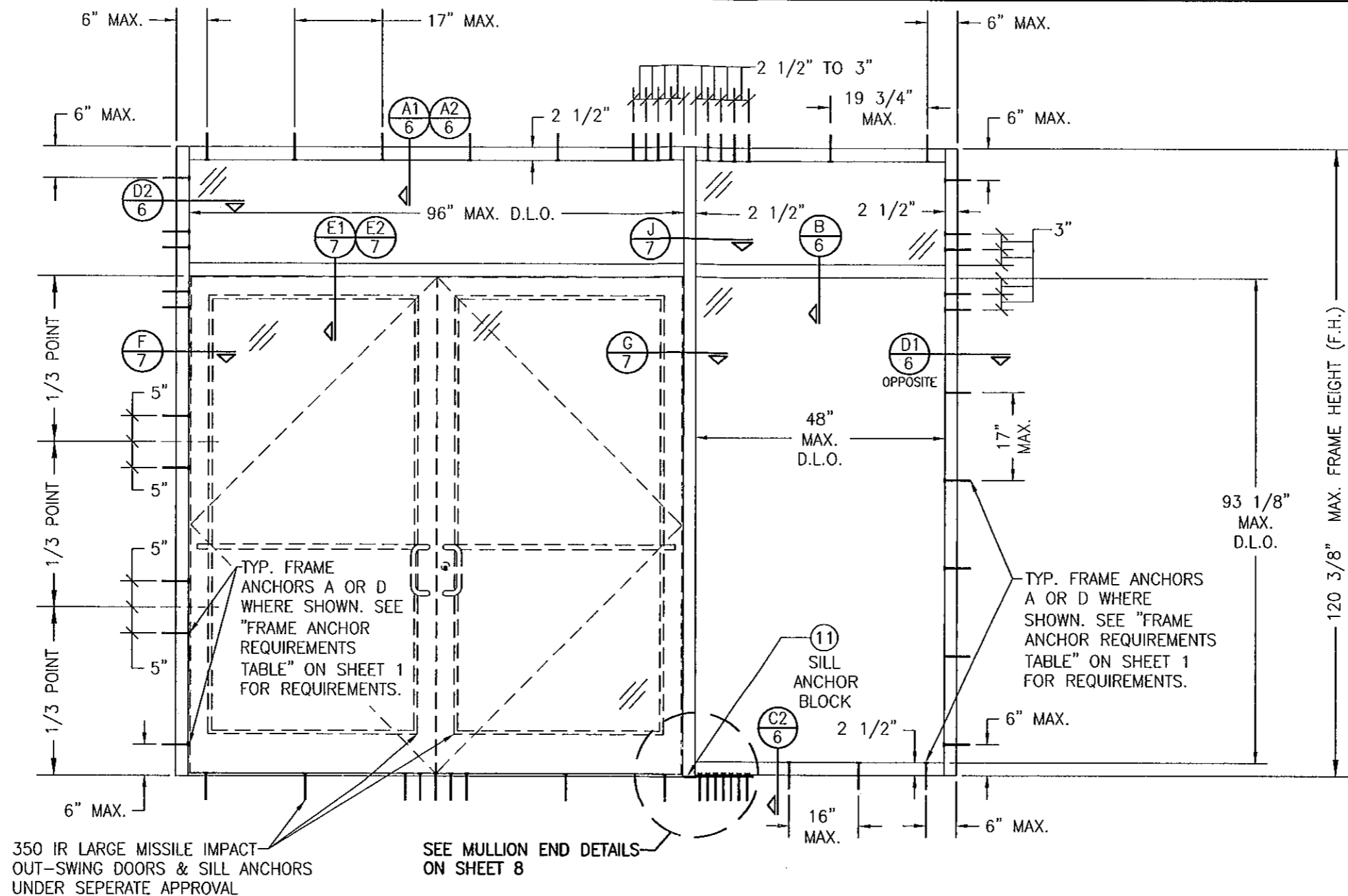
SCALE: 1/2"=1'-0"  
 FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 1.  
 NOTE: CMU IS APPLICABLE ONLY AT SIDES.

ALLOWABLE DESIGN PRESSURE  
 +/-65 PSF

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 11-0915.06  
 Expiration Date FEB. 15, 2017  
 By *Manuel Perez*  
 Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
NO.	REVISION DESCRIPTION	BY	DATE
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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 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 02 2011		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1461	REV. C	SHEET NO. 2 OF 9	



350 IR LARGE MISSILE IMPACT  
OUT-SWING DOORS & SILL ANCHORS  
UNDER SEPERATE APPROVAL

SEE MULLION END DETAILS  
ON SHEET 8

**EXTERIOR ELEVATION**  
**STORE FRONT ASSEMBLY WITH DOORS & TRANSOM**  
**(WITH ANCHOR TYPE "A" OR "D" TO WOOD OR METAL STUD)**

SCALE: 1/2"=1'-0"

SINGLE SIDELIGHT SHOWN, MULTIPLE SIDELIGHT CONDITION ALSO APPLIES WITH  
SIDELIGHT AT ONE OR BOTH SIDES.

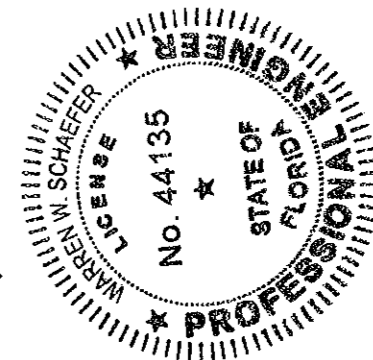
DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES.

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL  
PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

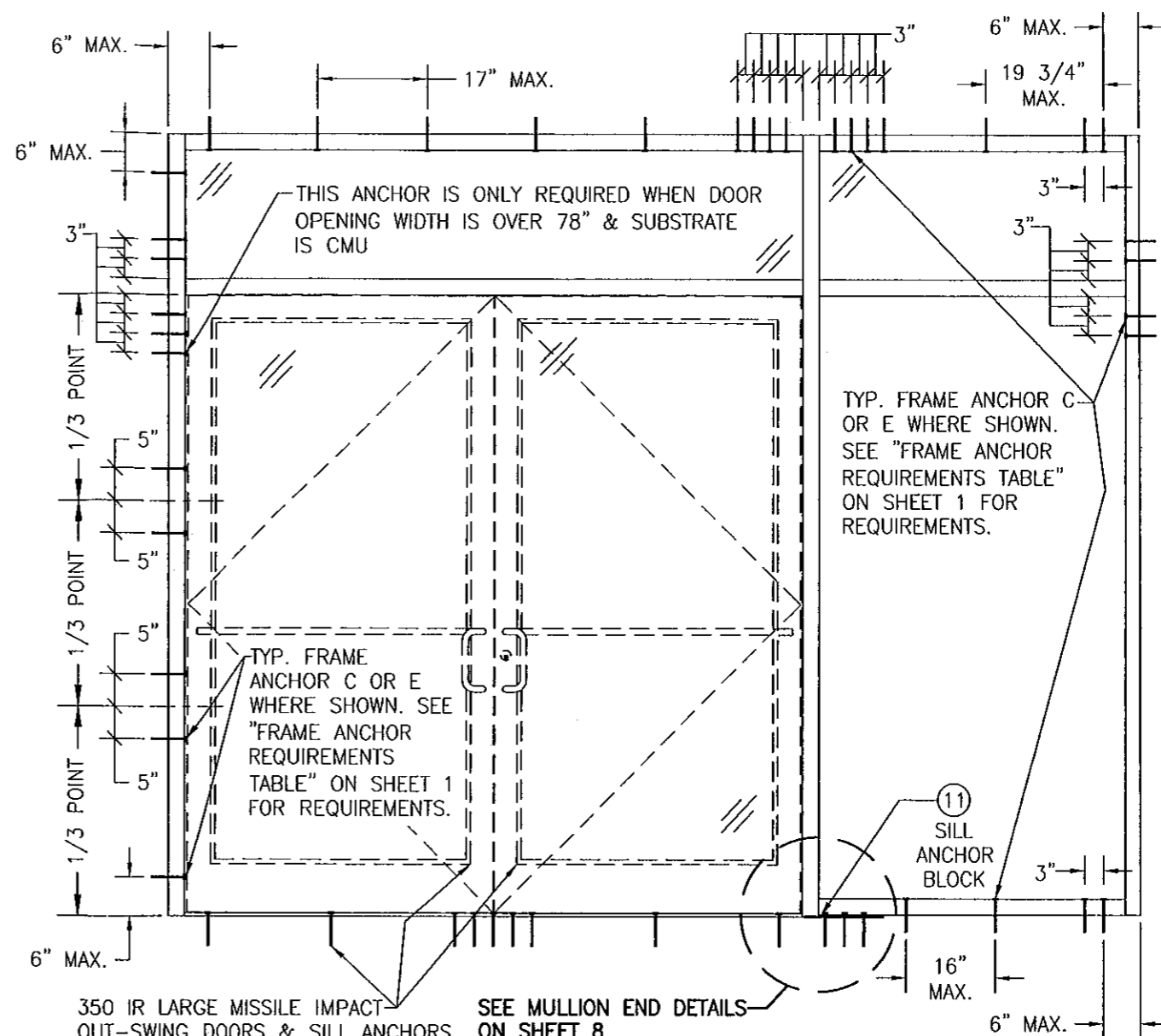
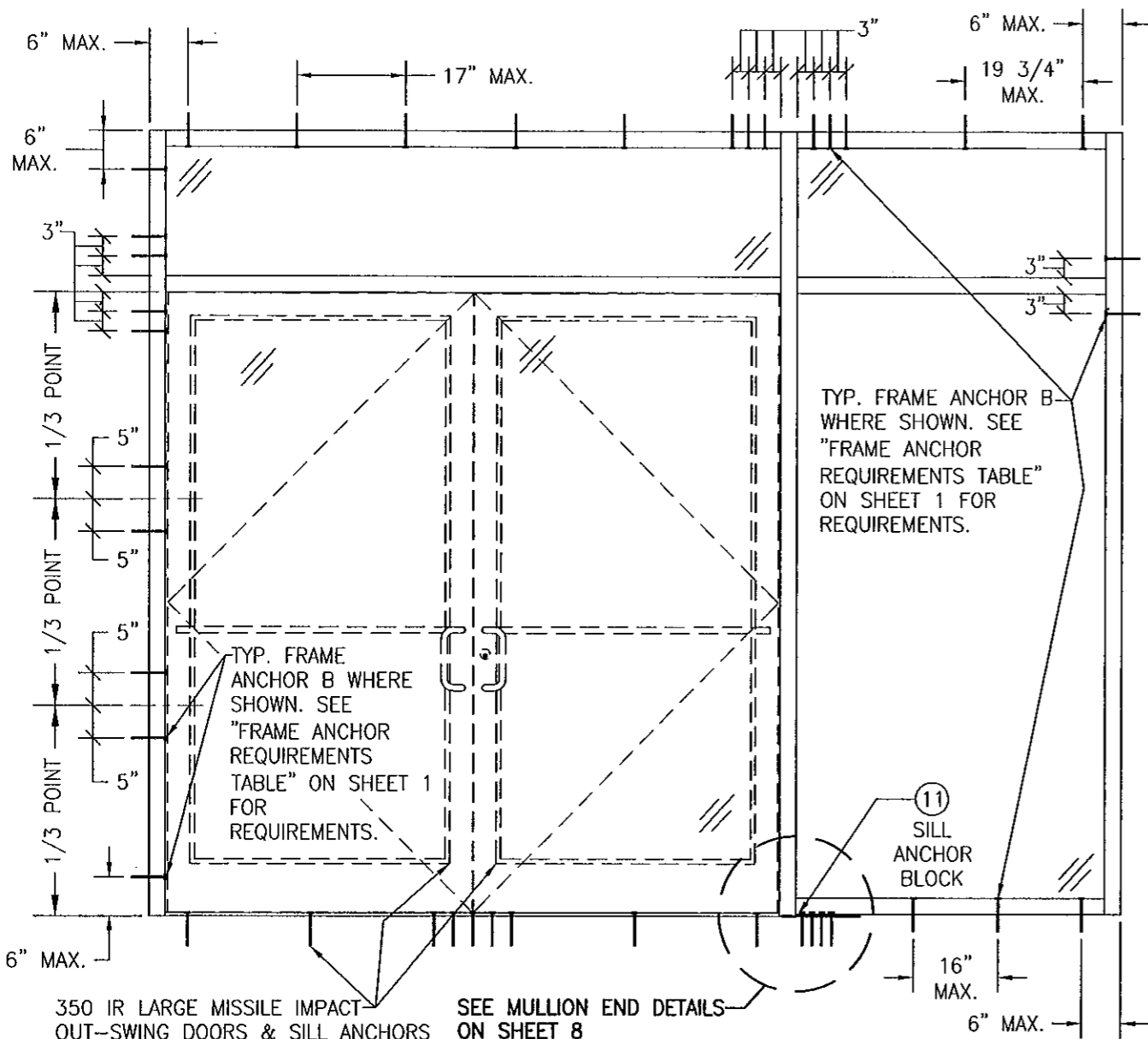
ALLOWABLE DESIGN PRESSURE

+/-65 PSF

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0915.D6  
Expiration Date FEB. 15, 2017  
By *Manuel Perez*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/14/06	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT			
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 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION SEP 02 2011 <i>Warren W. Schaefer</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. REV. 1461 C	
SHEET NO. 3 OF 9			



**EXTERIOR ELEVATION  
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM  
(WITH ANCHOR TYPE "B" TO STEEL)**

SCALE: 1/2"=1'-0"

FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.

**EXTERIOR ELEVATION  
STORE FRONT ASSEMBLY WITH DOORS & TRANSOM  
(WITH ANCHOR TYPE "C" & "E" TO CONCRETE/CMU)**

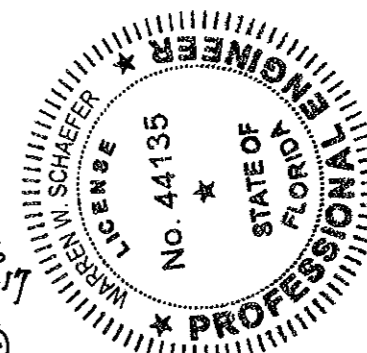
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FOR ALL FRAMING & D.L.O. DIMENSIONS AND SECTIONS, SEE ELEVATION ON SHEET 3.

NOTE: CMU IS APPLICABLE ONLY AT SIDES.

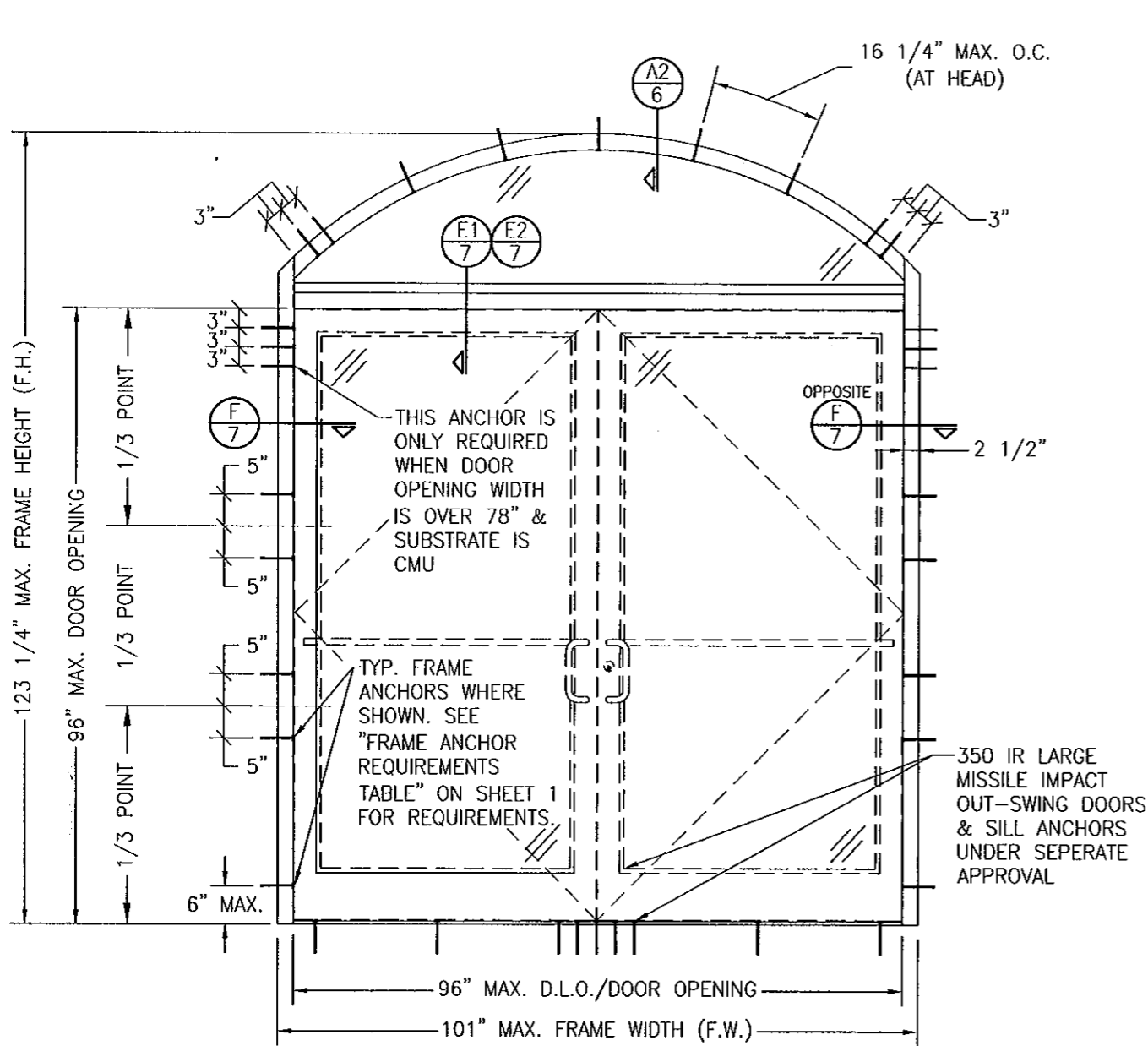
ALLOWABLE DESIGN PRESSURE  
+/-65 PSF

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0915.06  
Expiration Date FEB. 15, 2017  
By *Warren W. Schaefer*  
Miami Trade Product Control

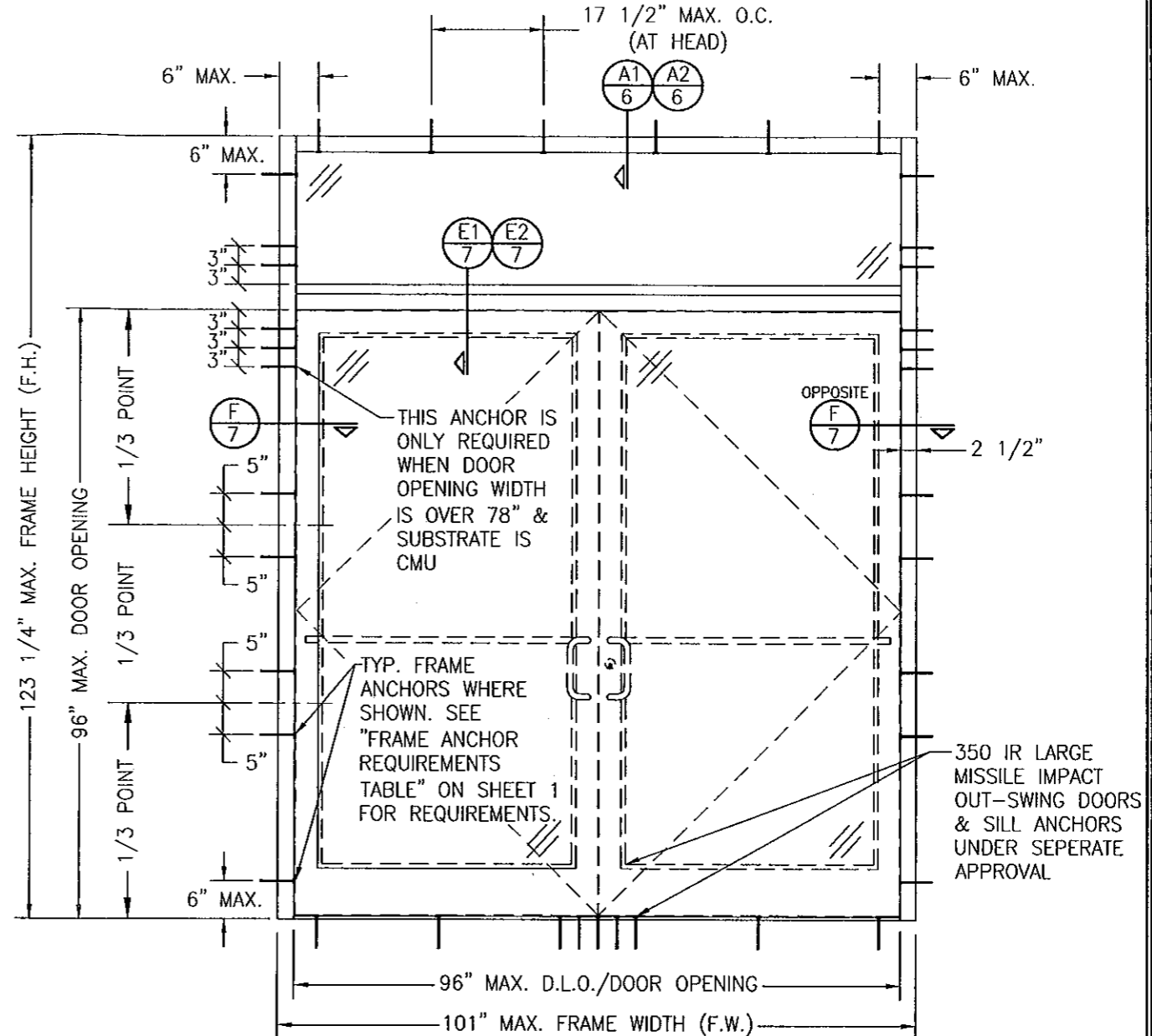


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DATE	BY
REVISION DESCRIPTION	NO.
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MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424	
CERTIFICATION SEP 02 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1461	REV. C
SHEET NO. 4 OF 9	

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 07/14/06
NO.	REVISION DESCRIPTION
DATE	BY



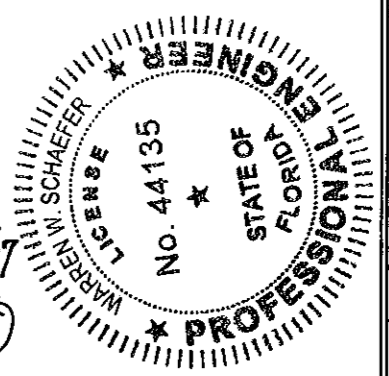
**EXTERIOR ELEVATION**  
**STORE FRONT FRAMING WITH DOORS & EYEBROW TRANSOM**  
 (APPLICABLE WITH ALL SUBSTRATES)  
 (DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)  
 SCALE: 1/2"=1'-0"



**EXTERIOR ELEVATION**  
**STORE FRONT FRAMING WITH DOORS & RECTANGULAR TRANSOM**  
 (APPLICABLE WITH ALL SUBSTRATES)  
 (DOUBLE DOOR CONDITION SHOWN, SINGLE DOOR CONDITION ALSO APPLIES)  
 SCALE: 1/2"=1'-0"

**ALLOWABLE DESIGN PRESSURE**  
 +/-65 PSF

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 11-0915.06  
 Expiration Date FEB 15, 2017  
 By *Warren W. Schaefer*  
 Miami Dade Product Control

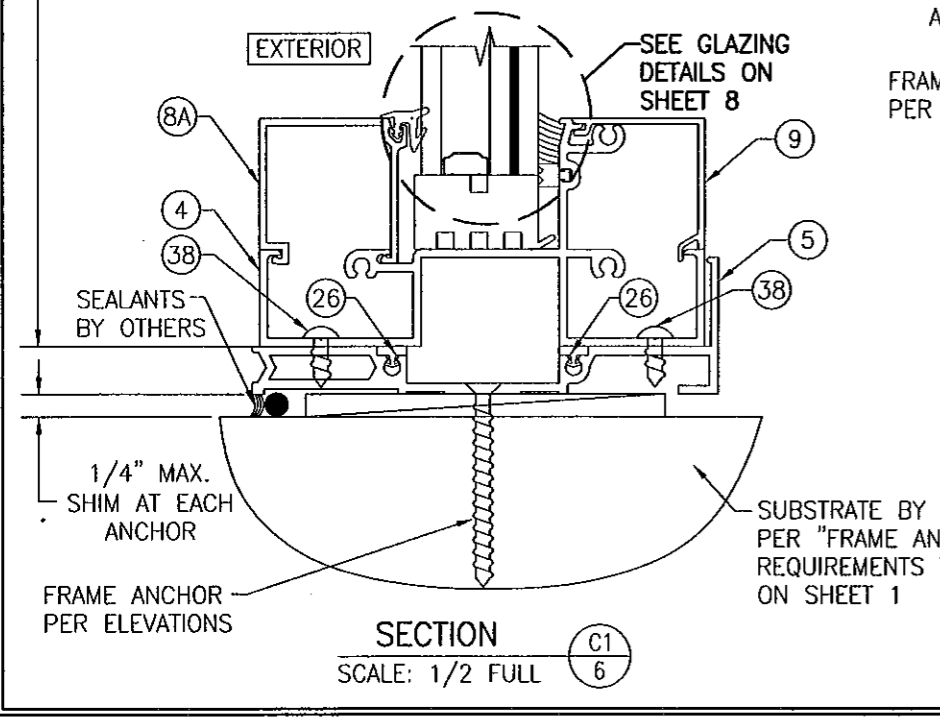
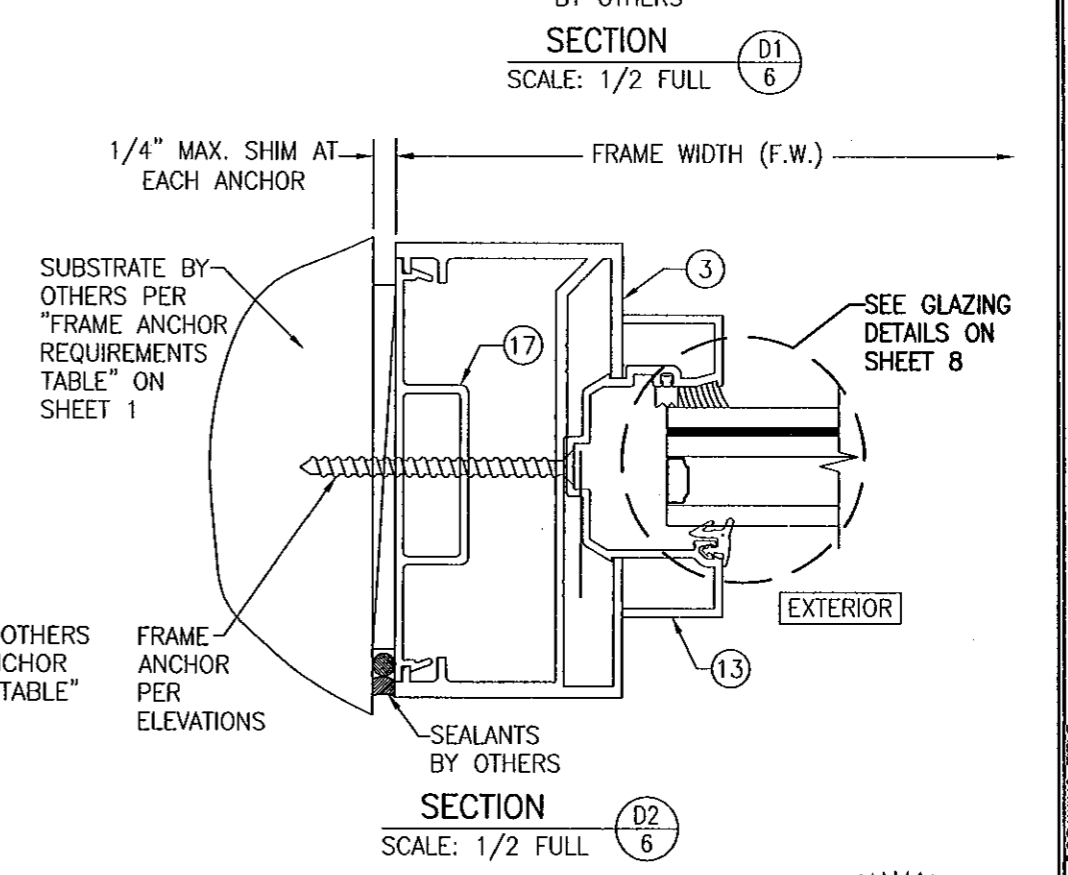
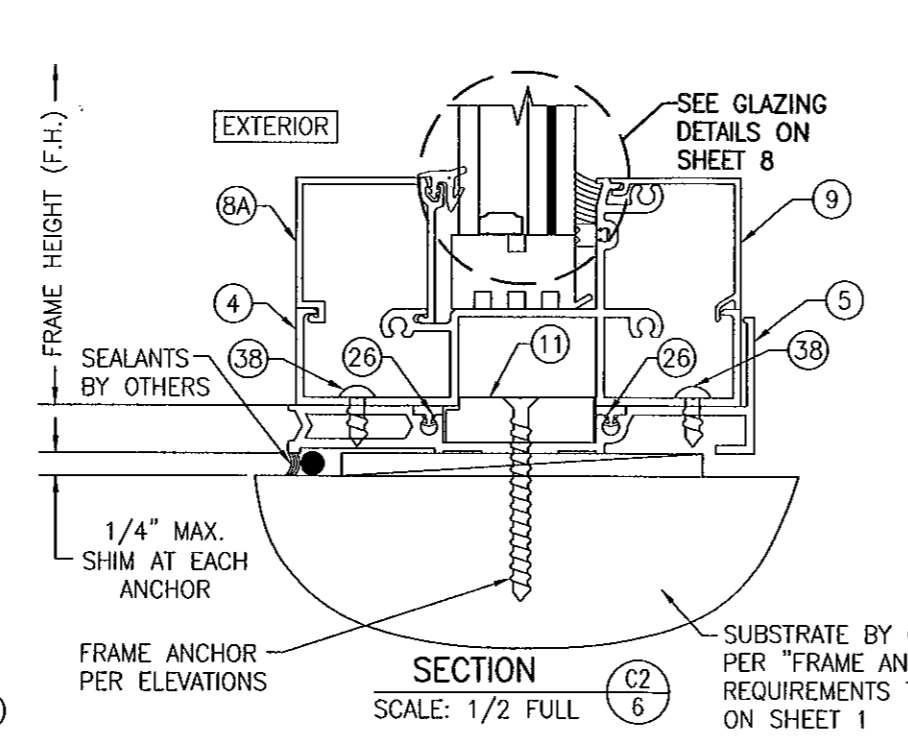
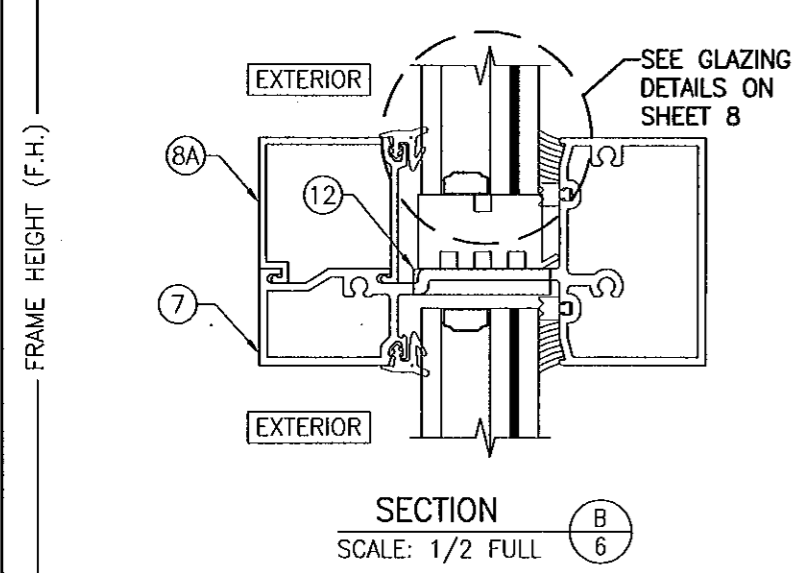
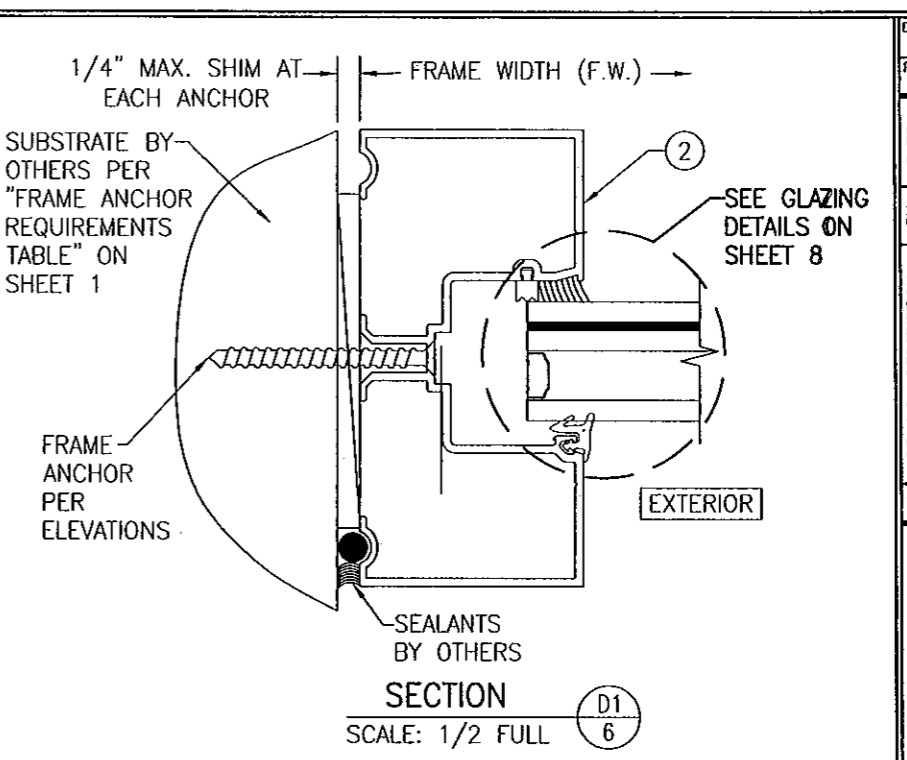
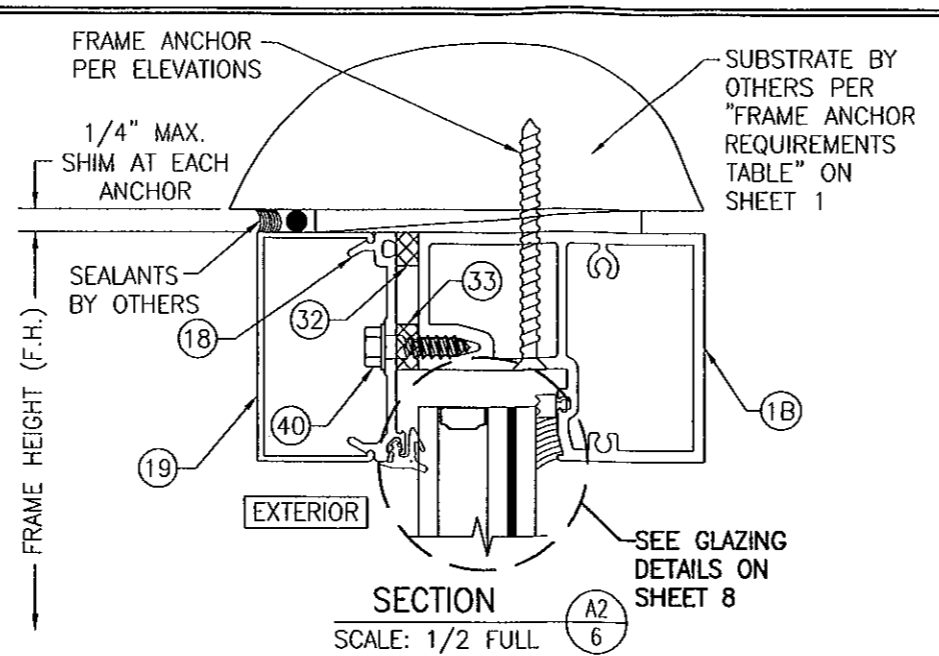
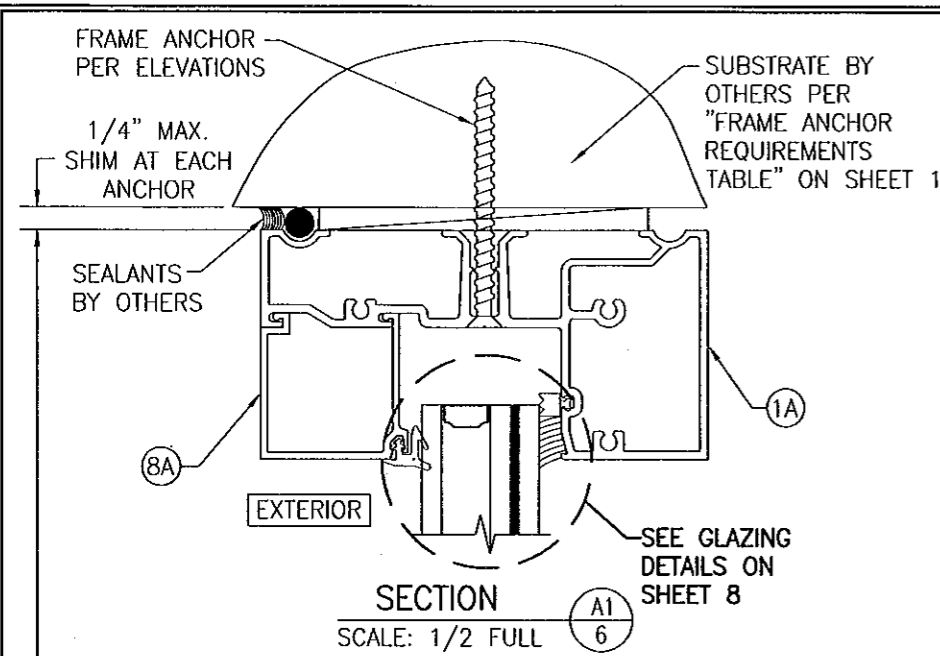


DRAWING TITLE  
 IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT

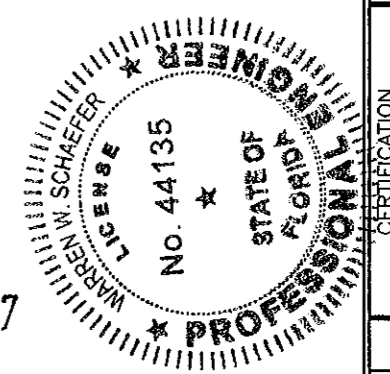
CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

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

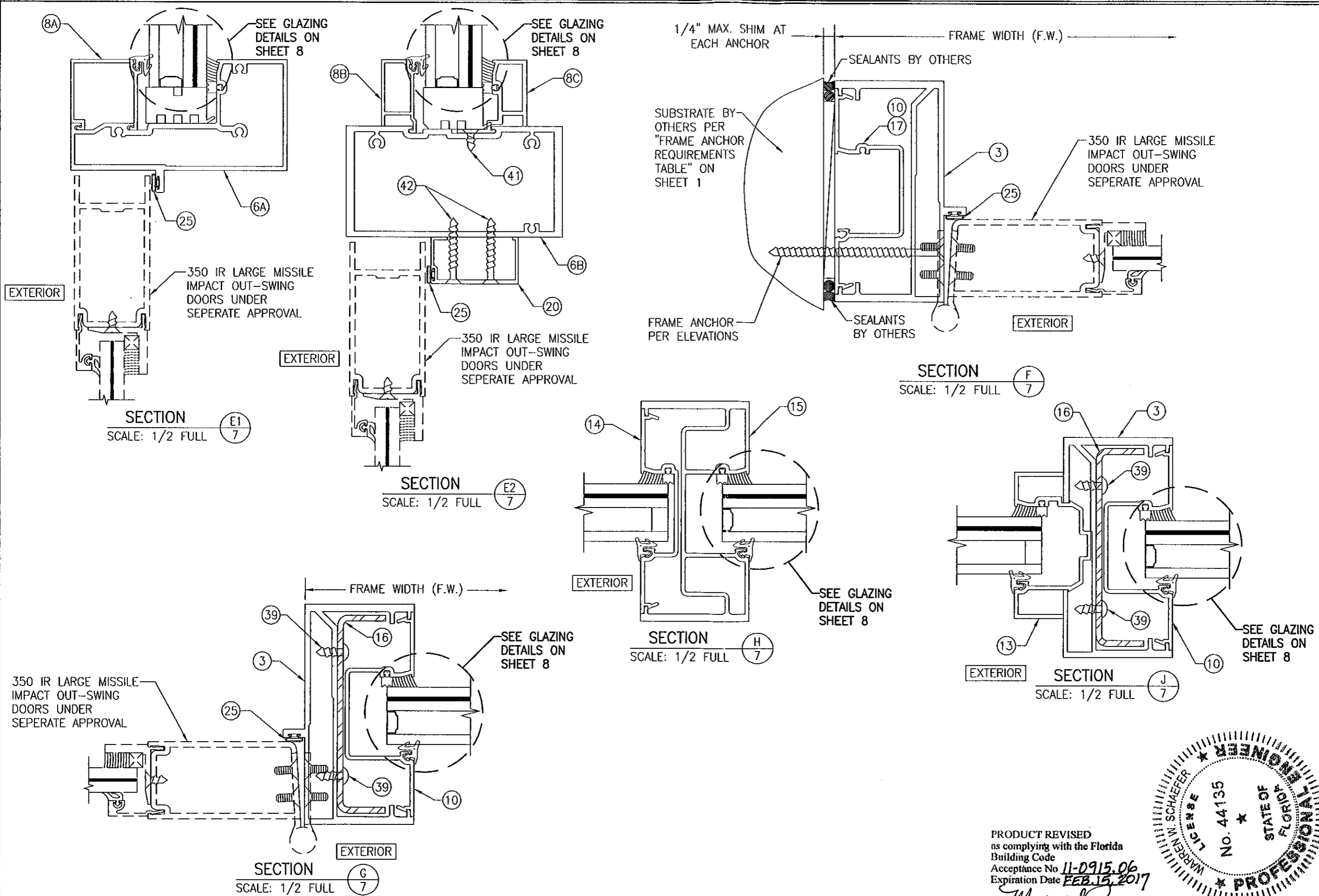
CERTIFICATION	SEP 02 2011	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO.	REV.	
1461	C	
SHEET NO.		
5	OF	9



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-0915.06  
Expiration Date FEB. 15, 2017  
By *Maurel Gray*  
Miami/Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 07/14/06	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT			
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		SEP 02 2011	
DRAWING NO. 1461		REV. C	
SHEET NO. 6		OF 9	



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 07/14/08
NO.	REVISION DESCRIPTION

DRAWING TITLE  
**IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT**

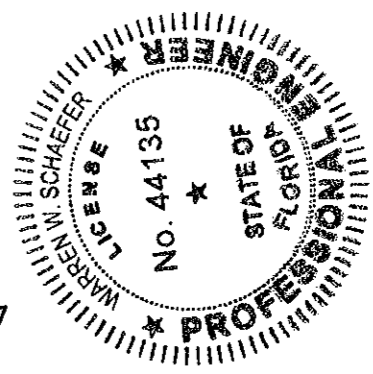
MANUFACTURER  
**KAWNEER COMPANY, INC.**  
 555 GUTHRIDGE COURT  
 NORCROSS, GA 30092  
 770-449-5555

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

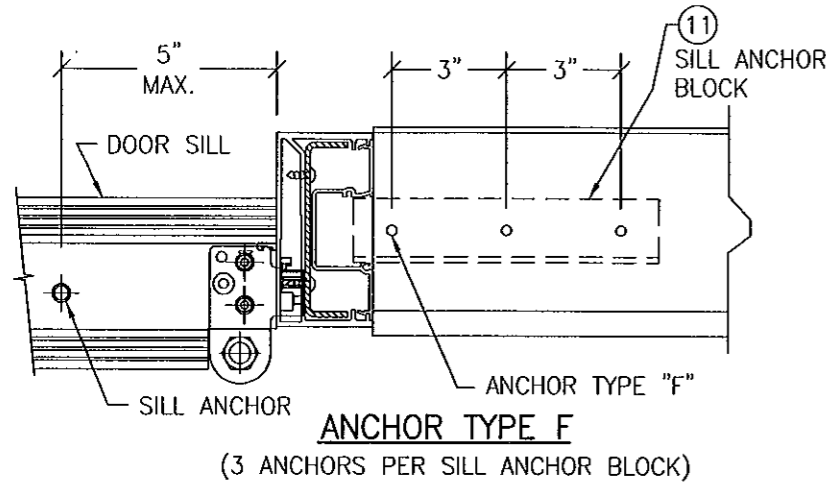
CERTIFICATION  
 SEP 02 2011  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

DRAWING NO. 1461	REV. C
SHEET NO. 7	OF 9

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 11-0915.06  
 Expiration Date FEB. 15, 2017  
 By *Maurice Gray*  
 Miami/Dade Product Control

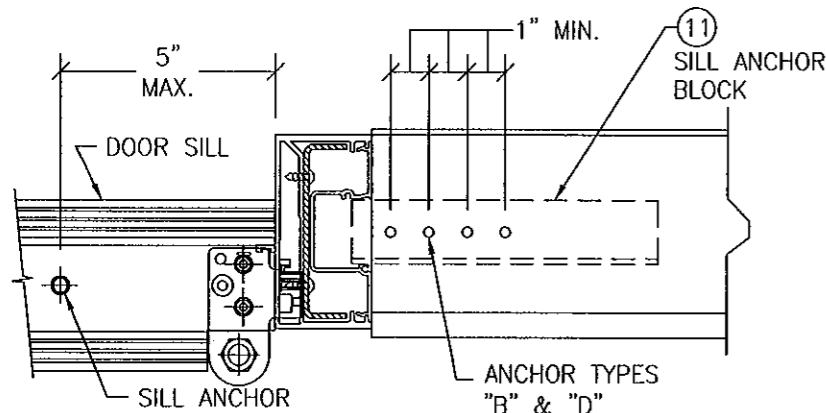


**MULLION END CONNECTION DETAILS AT VERTICAL MULLIONS ALONG SIDE DOORS (TYPICAL AT SILL ONLY)**



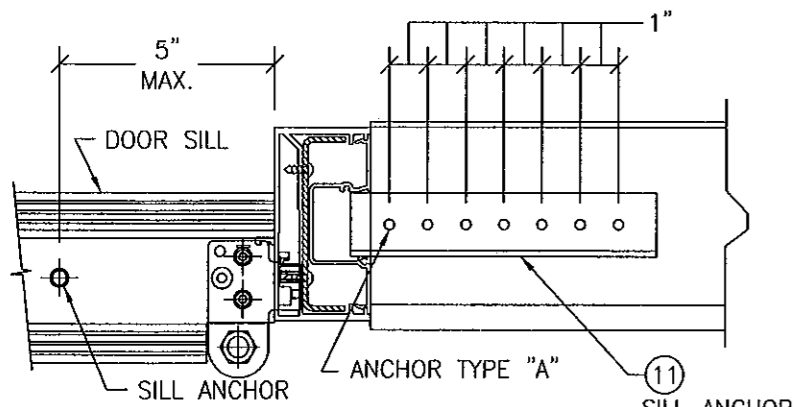
**ANCHOR TYPE F**

(3 ANCHORS PER SILL ANCHOR BLOCK)



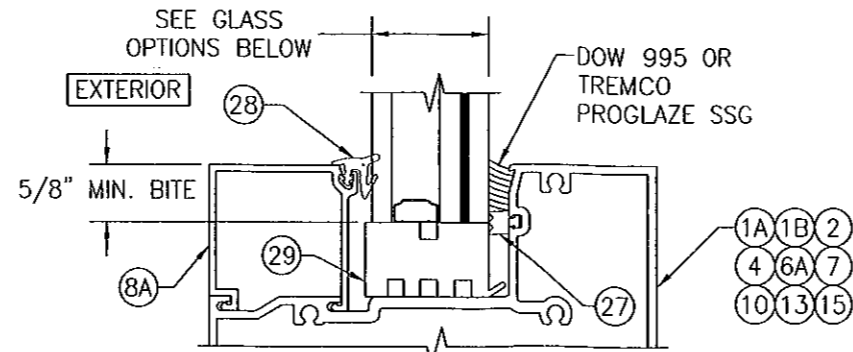
**ANCHOR TYPE B**

(4 ANCHORS PER SILL ANCHOR BLOCK)



**ANCHOR TYPES A & D**

(7 ANCHORS PER SILL ANCHOR BLOCK)



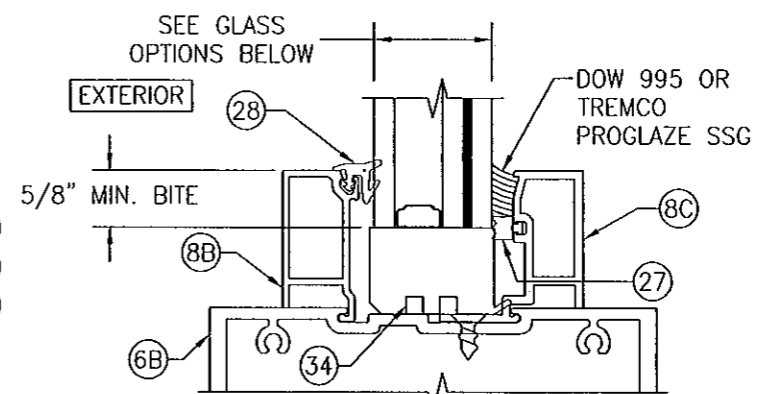
**TYP. GLAZING DETAIL**

**(WET GLAZED; SINGLE GLAZING BEAD CONDITION)**

GLASS OPTIONS (WET GLAZED):

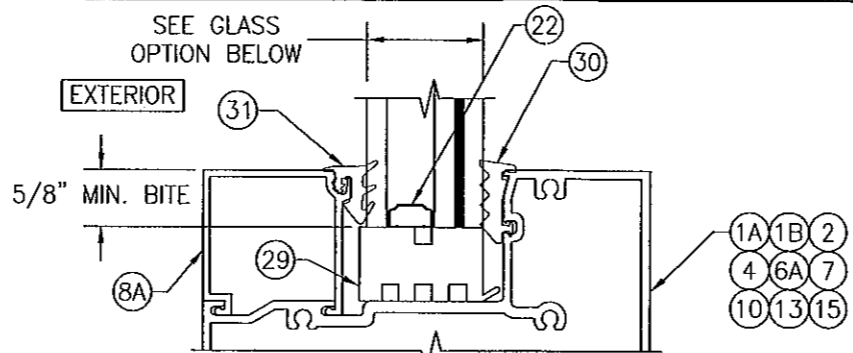
OPTION 1: 1 5/16" THICK LAMINATED GLASS BY SOLUTIA (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 SOLUTIA SAFLEX III G PVB/1/4" HT. ST.)

OPTION 2: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT BUTICITE PVB/1/4" HT. ST.)



**TYP. GLAZING DETAIL**

**(WET GLAZED; DOUBLE GLAZING BEAD CONDITION)**

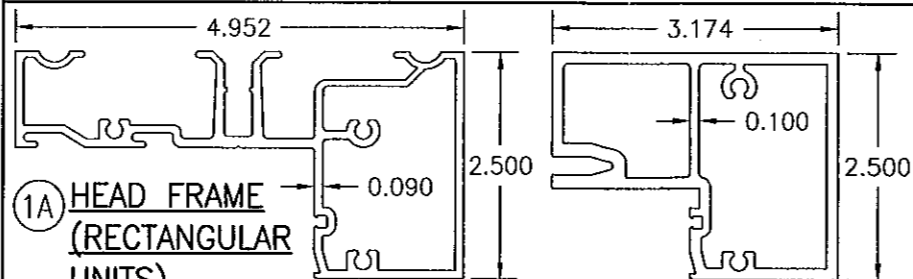


**TYP. GLAZING DETAIL**

**(DRY GLAZED; SINGLE GLAZING BEAD CONDITION)**

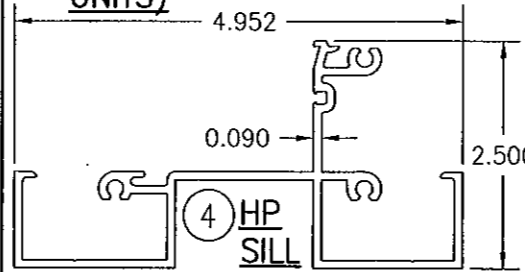
GLASS OPTION (DRY GLAZED):

OPTION 1: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" HT. ST./1/2" AIR SPACER/1/4" HT. ST./0.09 DUPONT SGP/1/4" HT. ST.)

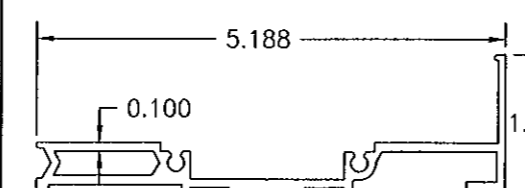


**1A HEAD FRAME (RECTANGULAR UNITS)**

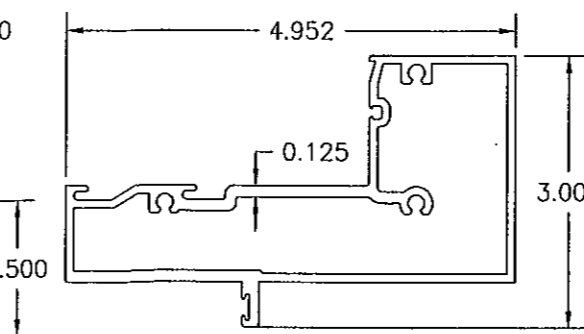
**1B HEAD FRAME (RADIUS & RECTANGULAR UNITS)**



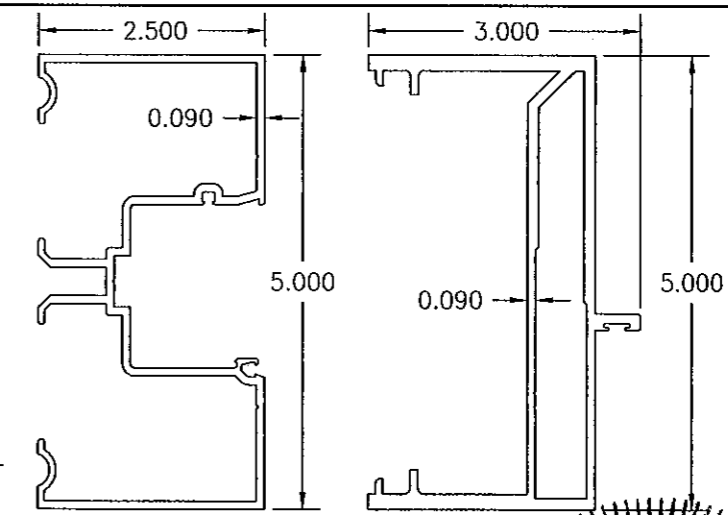
**4 HP SILL**



**5 HP SILL FLASHING**



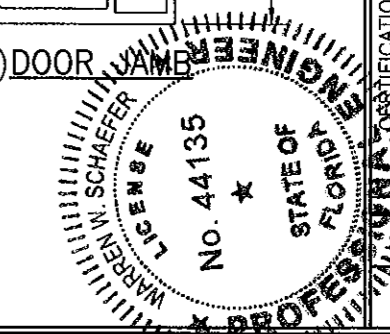
**6A TRANSOM BAR WITH FIN**



**2 JAMB**

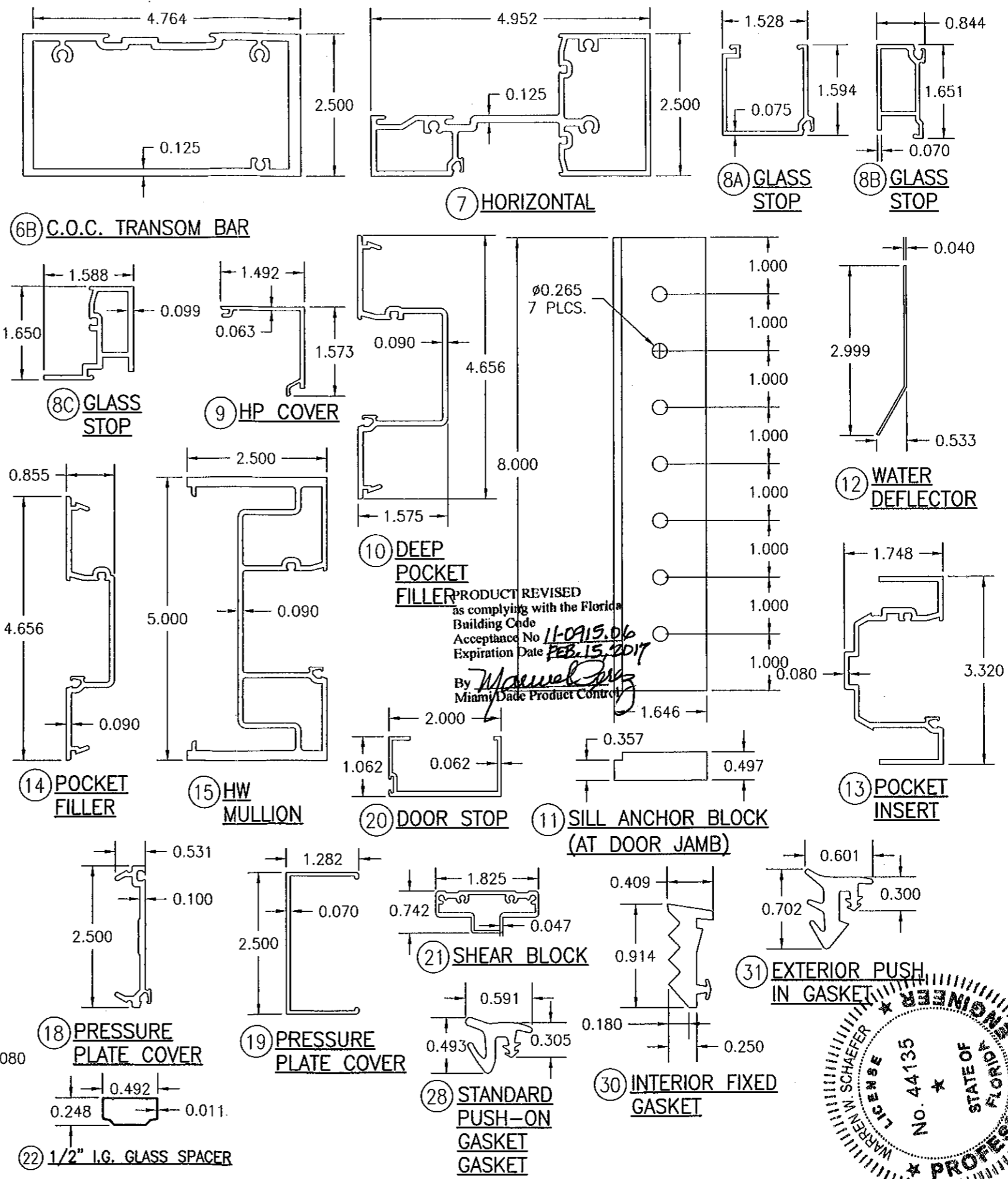
**3 DOOR JAMB**

PRODUCT REVISED as complying with the Florida Building Code  
Acceptance No 11-0915.06  
Expiration Date FEB. 15, 2017  
By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWING TITLE		IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT	
DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLLOT:	1=2	DATE:	07/14/06
DATE			
BY			
REVISION DESCRIPTION			
NO.			
MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424			
DRAWING NO. 1461			
REV. C			
SHEET NO. 8 OF 9			

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	575-103	HEAD FRAME (RECTANGULAR UNITS)	6063-T6 ALUMINUM
1B	575-163	HEAD FRAME (RADIUS & RECTANGULAR UNITS)	6063-T6 ALUMINUM
2	575-101	JAMB	6063-T6 ALUMINUM
3	575-051	DOOR JAMB	6063-T6 ALUMINUM
4	575-158	HP SILL	6063-T6 ALUMINUM
5	575-157	HP SILL FLASHING	6063-T6 ALUMINUM
6A	575-122	TRANSOM BAR WITH FIN	6063-T6 ALUMINUM
6B	575-162	C.O.C. TRANSOM BAR	6063-T6 ALUMINUM
7	575-115	HORIZONTAL	6063-T6 ALUMINUM
8A	575-104	GLASS STOP	6063-T6 ALUMINUM
8B	575-160	GLASS STOP	6063-T6 ALUMINUM
8C	575-161	GLASS STOP	6063-T6 ALUMINUM
9	575-159	HP COVER	6063-T6 ALUMINUM
10	575-135	DEEP POCKET FILLER	6063-T6 ALUMINUM
11	575-297	SILL ANCHOR BLOCK (AT DOOR JAMB)	6063-T6 ALUMINUM
12	451-105	WATER DEFLECTOR	6063-T6 ALUMINUM
13	575-133	POCKET INSERT	6063-T6 ALUMINUM
14	575-102	POCKET FILLER	6063-T6 ALUMINUM
15	575-116	HW MULLION	6063-T6 ALUMINUM
16	575-310	STEEL REINF.	A36 STEEL
17	575-052	POCKET INSERT	6063-T6 ALUMINUM
18	575-065	PRESSURE PLATE	6063-T6 ALUMINUM
19	575-164	PRESSURE PLATE COVER	6063-T6 ALUMINUM
20	041-045	DOOR STOP	6063-T6 ALUMINUM
21	450-140	SHEAR BLOCK	6063-T6 ALUMINUM
22	-	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
SEALS AND SEALANTS			
25	027-078	DOOR BULB WEATHERING	ALCRYN
26	127-120	SILL TO FLASHING GASKET	CCN SPONGE
27	127-011	SLIDE IN SPACER	SANTOPRENE
28	027-074	STANDARD PUSH ON GASKET	EPDM (DUROMETER = 70 +/-5)
29	127-070	SETTING BLOCK	EPDM
30	127-121	INTERIOR FIXED GASKET	EPDM (DUROMETER = SPONGE)
31	127-126	EXTERIOR PUSH IN GASKET	EPDM (DUROMETER = 70)
32	027-916	GASKET	EPDM (DUROMETER = 70)
33	163-303	THERMAL SEPARATOR	EPDM (DUROMETER = 70)
FASTENERS			
38	128-396	NO. 12 X 7/16" S.S. PHTF SCREW	2" FROM ENDS & MAX. 18" O.C.
39	128-271	NO. 12 X 5/8" S.S. PHTF SCREW	4" FROM ENDS (2 ROWS)
40	128-406	1/4" X 1" S.S. HWHTF SCREW	3" FROM ENDS & MAX. 9" O.C.
41	128-910	NO. 10 X 1/2" S.S. FHTF SCREW	3" FROM ENDS & MAX. 18" O.C.
42	028-336	NO. 10 X 1 5/8" S.S. FHTF SCREW	1" FROM ENDS; 4 GROUPED AT MID-SPAN; 16" MAX. BETWEEN



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 07/14/06	DATE: 07/14/06
PLOT: 1-2	DATE: 07/14/06
NO.	REVISION DESCRIPTION
BY	DATE
DESCRIPTION	DATE
IR501 ALUMINUM STORE FRONT SYSTEM - LARGE MISSILE IMPACT	
KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING NO. 1461	REV. C
SHEET NO. 9	OF 9



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

Kawneer Company, Inc.  
 555 Guthridge Court  
 Norcross, GA 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 and accepted by Miami-Dade County PERA -Product Control Section 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. PERA 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 "350 IR" Aluminum Outswing Storefront Door-L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. 1569 Rev C, titled "350 IR 9' Outswing Aluminum Storefront Doors - LMI", sheets 1 through 9 of 9, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/02/08 and last revised on Jan 06, 2015, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large Missile Impact Resistant**

**Limitations:**

1. See sheet 1 for door size & 3-point lock option and sheet 2 for door size & Panic lock options 2 & 3.
2. Doors are not rated approved, where water infiltration is required unless overhang complying w/FBC requirements
3. When doors are installed into Kawneer's Storefronts or Curtain Wall System (under separate approvals), such system must provide reinforced mullions per detail G1/6 & G2/6, proper Door openings sizes limitations and door mullion end anchors and to be reviewed by Building official. Lower Design Pressure of the Door or the System shall control the entire assembly.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series 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 #14-0128.10 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



4/15/15

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections. (Submitted under files #11-1027.15 /#08-0219.07)
2. Drawing No. 1569 Rev C, titled "350 IR 9' Outswing Aluminum Storefront Doors - LMI", sheets 1 through 9 of 9, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/02/08 and last revised on Jan 06, 2015, signed and sealed by Warren W. Schaefer, P. E.

Note: This revision consists of addition of new panic devices, IG glazing & updating FBC 2014(5<sup>th</sup> edition).

**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(Not performed)
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagrams of aluminum outswing storefront doors, prepared by Architectural Testing, Test Reports No. **D3741.01-550-18**, dated 04/23/14, signed and sealed by Vinu J. Abraham, P. E., (test report revised by addendum letter dated Nov 07, 2014, issued by Architectural Testing).

Along with marked-up drawings and installation diagrams of aluminum outswing storefront doors, prepared by Hurricane Test Laboratory, Inc., Test Reports No.

**HTL-0049-0611-04** dated **06-07-04**, **HTL- 0049-1106-04** dated 11/03/04 and

**G049-1005-06** dated 10/03/06, all signed and sealed by Vinu J. Abraham, P. E. (Submitted under file #11-1027.15 /#08-0219.07) Note: These test reports have been revised by addendum letters, issued by Hurricane Testing lab, dated FEB 10, 2009, signed & sealed by Vinu J. Abraham, P.E.)

**C. CALCULATIONS**

1. Anchor verification calculations, complying with FBC 2014(5<sup>th</sup> edition), prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 02/04/14 and last revised on 10/07/14, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies w/ ASTME-1300-02 & -04

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company, (Former Solutia Inc.) for "Saflex: Clear & color glass interlayer", expiring on 05/21/16.

**F. STATEMENTS**

1. Statement letter of conformance to FBC 2014(5<sup>th</sup> edition) & "No financial interest", prepared by W. W. Schaefer Engineering & Consulting, P.A., dated May 19<sup>th</sup>, 2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement of Lab compliance, as part of above referenced test reports.

**G. OTHER**

1. This NOA revises NOA # **14-0128.10**, expiring on 04/22/2019.
2. Kawneer 1600 System 1 Curtain wall, IR 500 & IR 501 Storefront System, under separate approval.
3. Test proposals dated 07/22/13 & 07/26/13 approved by RER.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0602.01  
Expiration Date: April 22, 2019  
Approval Date: January 15, 2015

**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 WATER, 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  $KD = 0.85$  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  $CD = 1.6$  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.

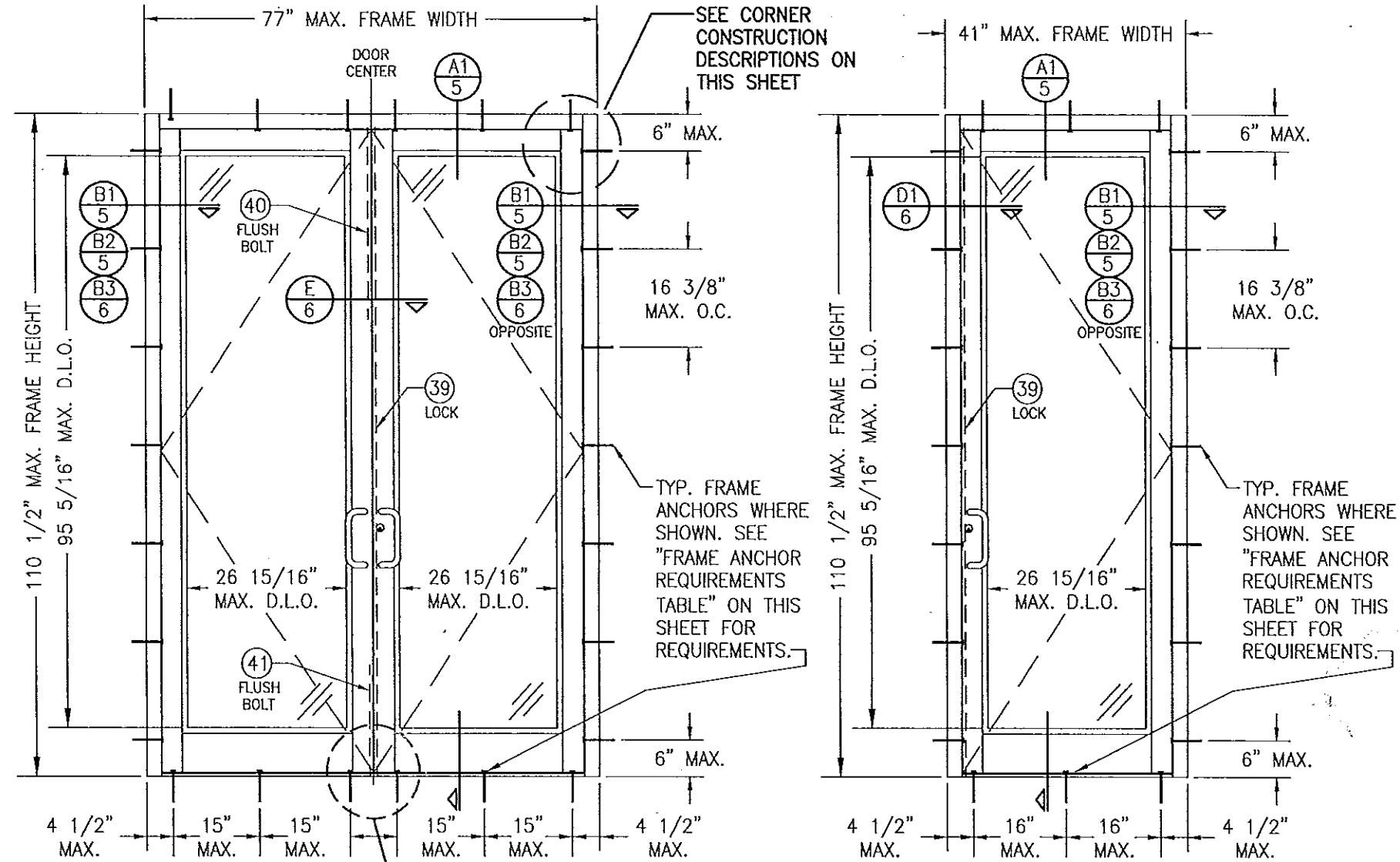
**CORNER & FRAME END CONSTRUCTION FOR SHEET 1 ELEVATIONS:**

**FRAME HEAD CORNER:** 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 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.

**NOTE:** THESE DOOR UNITS 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 17.



**EXTERIOR ELEVATION:  
DOUBLE DOOR WITH STORE FRONT FRAMING &  
STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"  
(APPLICABLE WITH ALL HINGE TYPES)

**EXTERIOR ELEVATION:  
SINGLE DOOR WITH STORE FRONT  
FRAMING & STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"  
(APPLICABLE WITH ALL HINGE TYPES)

**FRAME ANCHOR REQUIREMENTS TABLE**

FRAME SHEAR SCREWS				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	(4) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
B	MIN. 16 GA. 50 KSI METAL STUD	(2) NO. 12 GR. 5 SELF TAP/DRILLING SCREW	FULL	1/2"
C	MIN. 0.22" THICK A36 STEEL	(2) 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
D	MIN. 0.1" THK 6063-T6 ALUM. /CURTAIN WALL	(2) 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
E	(3) C-90 CMU/3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL
- (3) C-90 CMU IS ONLY APPLICABLE AT SIDES OF DOOR OPENING (NOT APPLICABLE TO HEAD & SILL)
- (4) WOOD FRAME OR BUCK MEMBERS MAY BE RIPPED DOWN TO A MINIMUM 4 1/2" DEPTH.

LOCK OPTION 1 IS SHOWN IN THESE ELEVATIONS. LOCK OPTIONS 2 & 3 ALSO APPLY. SEE ELEVATIONS ON SHEET 2 FOR LOCK OPTIONS 2 & 3.

**ALLOWABLE DESIGN PRESSURE**

+/-65 PSF

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0602-01  
Expiration Date APR 22, 2019  
By: (Signature)  
Miami Dade Product Control

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.		
PLOT: 1=24	DATE: 04/02/08		
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE TO CURRENT STANDARDS	10/08/11	W.R.M.
B1	UPDATE CLASS DESCRIPTION	09/04/13	W.R.M.
C1	ADD NEW LOCK OPTIONS	01/23/14	W.R.M.

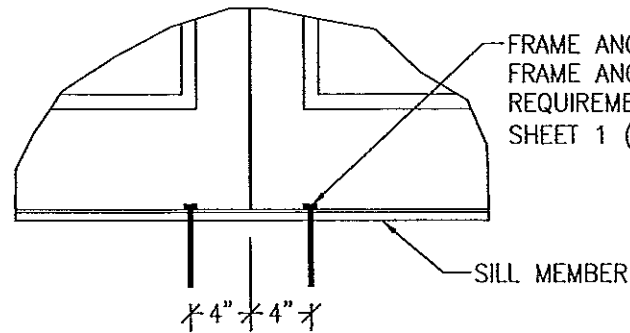
**350IR 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI**

**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

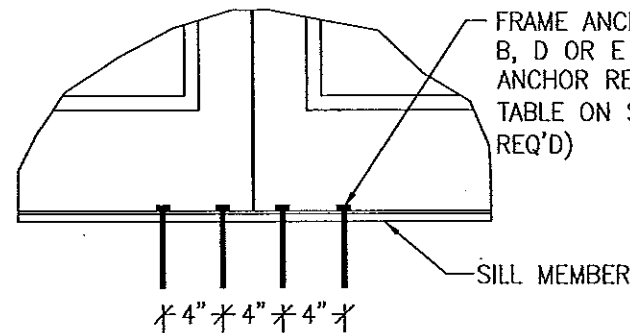
**CERTIFICATION**  
JAN 06 2015  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

DRAWING NO. 1569  
SHEET NO. 1 OF 9  
REV. C



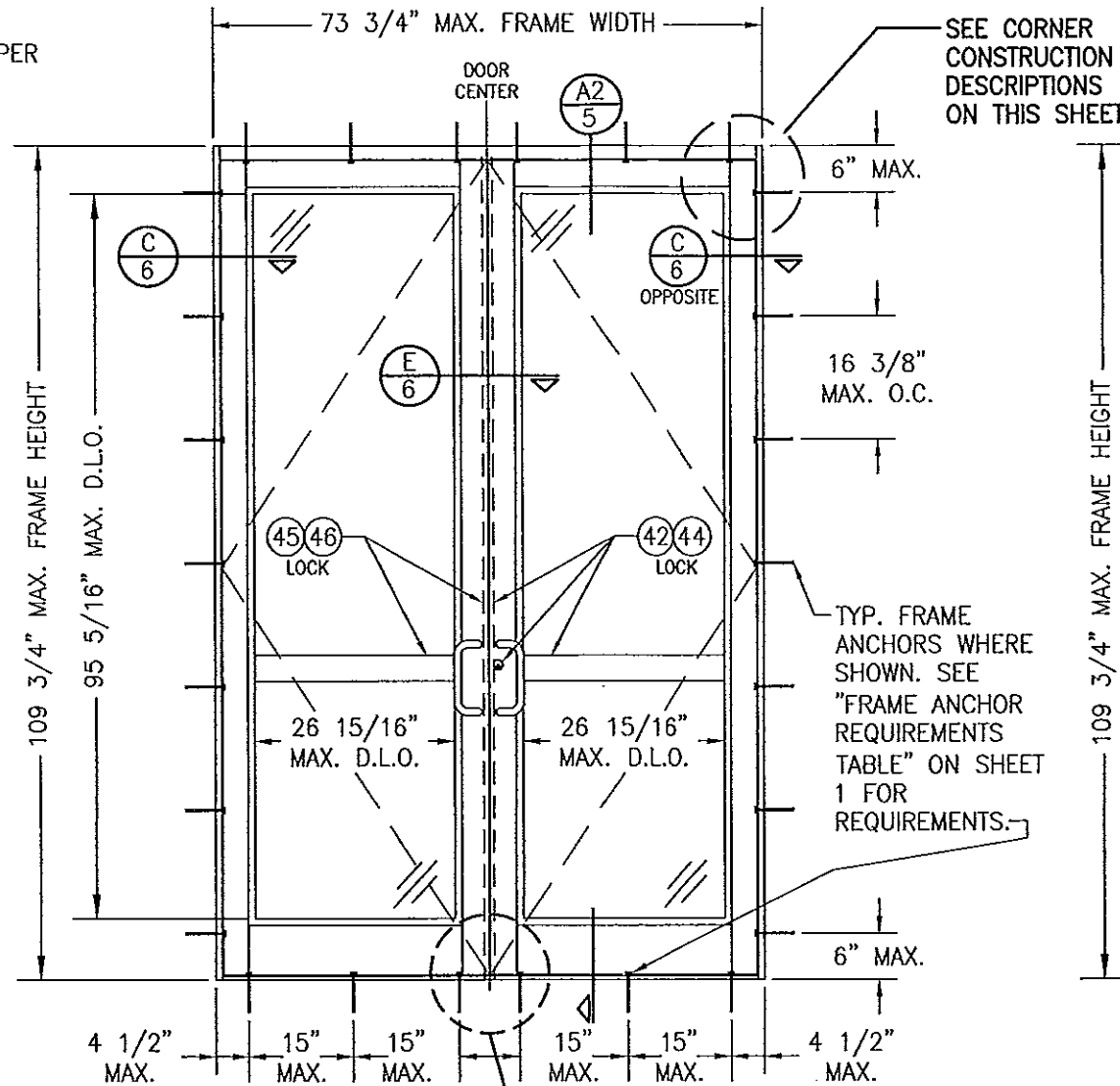
**MEETING STILE END CONNECTION  
(ANCHOR TYPE C)**

(SILL CONDITION SHOWN; HEAD CONDITION IS SAME)



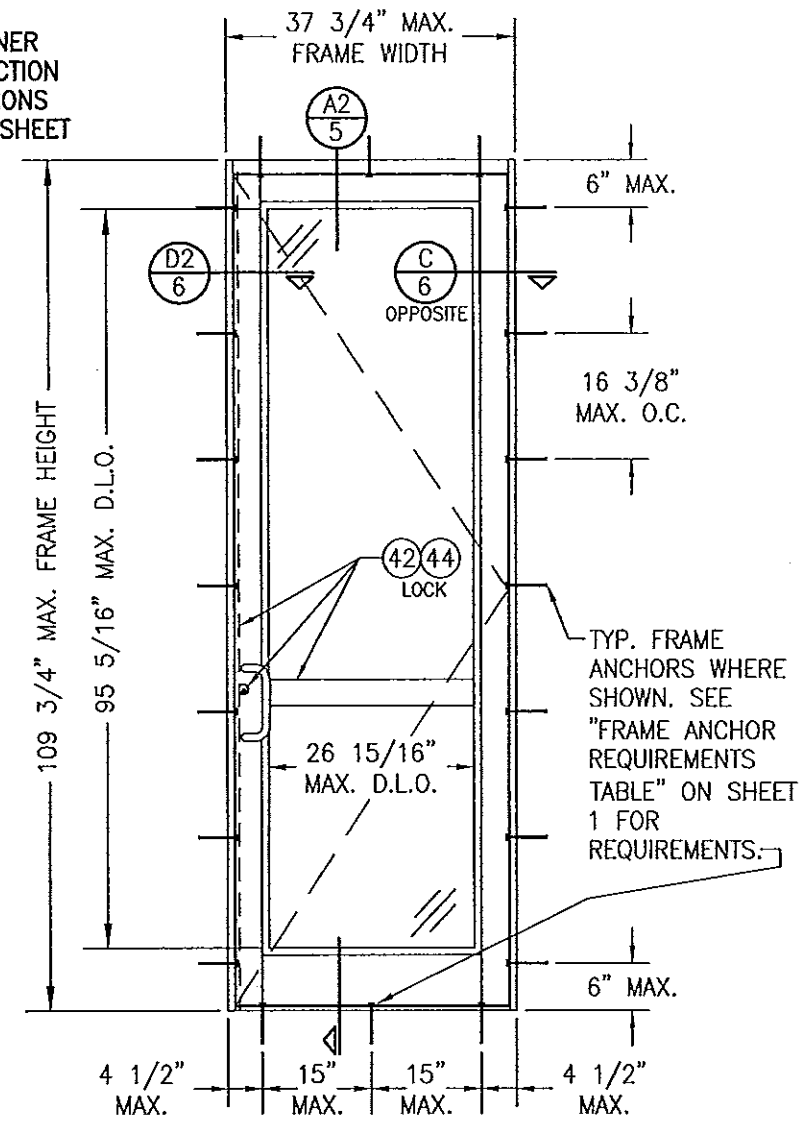
**MEETING STILE END CONNECTION  
(ANCHOR TYPE A, B, D OR E)**

(SILL CONDITION SHOWN; HEAD CONDITION IS SAME)



**EXTERIOR ELEVATION;  
DOUBLE DOOR WITH STANDARD FRAMING &  
STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"  
(APPLICABLE WITH ALL HINGE TYPES)



**EXTERIOR ELEVATION;  
SINGLE DOOR WITH STANDARD  
FRAMING & STANDARD INSTALLATION**

SCALE: 1/2" = 1'-0"  
(APPLICABLE WITH ALL HINGE TYPES)

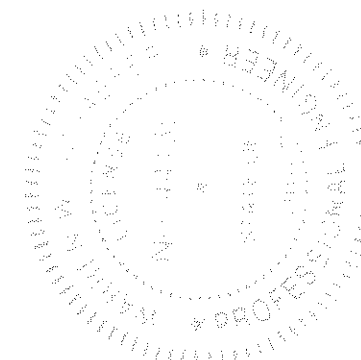
LOCK OPTIONS 2 & 3 ARE SHOWN IN THESE ELEVATIONS. LOCK OPTION 1 ALSO APPLIES. SEE ELEVATIONS ON SHEET 1 FOR LOCK OPTION 1.

**ALLOWABLE DESIGN PRESSURE**  
+/-65 PSF

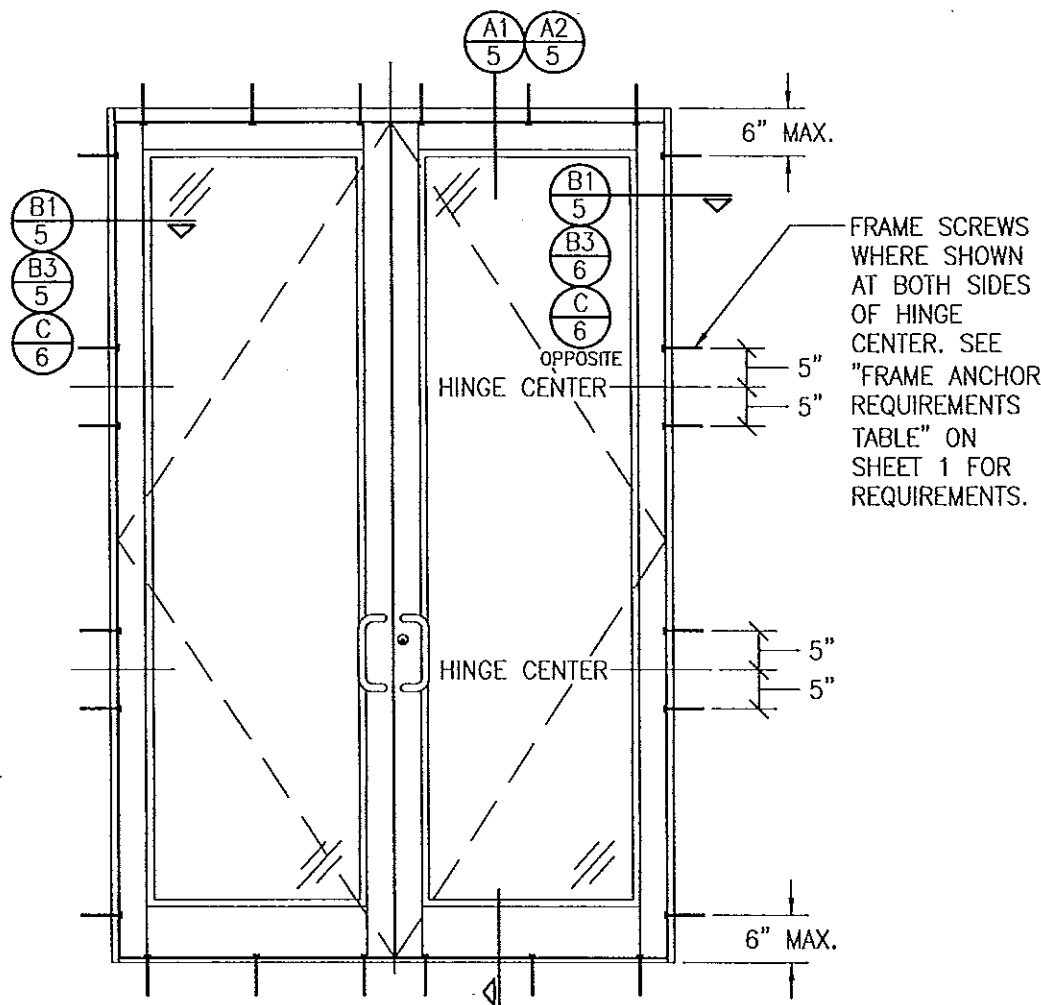
**CORNER & FRAME END CONSTRUCTION FOR SHEET 2 ELEVATIONS:**

**FRAME HEAD CORNER:** HEAD IS SQUARE CUT, BUTTED TO SIDE, SECURED WITH SHEAR BLOCK ITEM# 16 (SEE SECTION A2/5) & 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 & MIDRAIL ENDS:** SEE SHEET 1 CORNER DESCRIPTIONS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0602-01  
Expiration Date 4/22/19  
By *Isling I. Chaudhry*  
Miami Dade Product Control



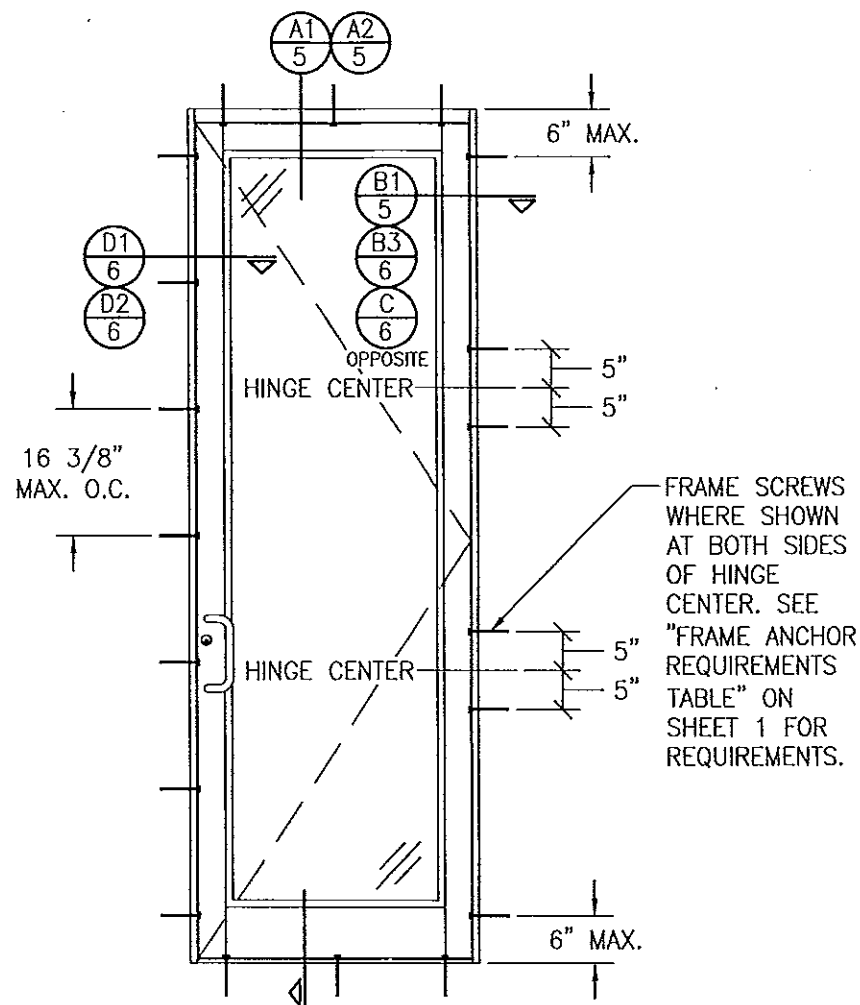
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 04/02/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 350IR 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI			
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION JAN 06 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1569		REV. C	
SHEET NO. 2 OF 9			



**EXTERIOR ELEVATION;  
DOUBLE DOOR WITH ALTERNATE  
INSTALLATION CONDITION**

SCALE: 1/2" = 1'-0"

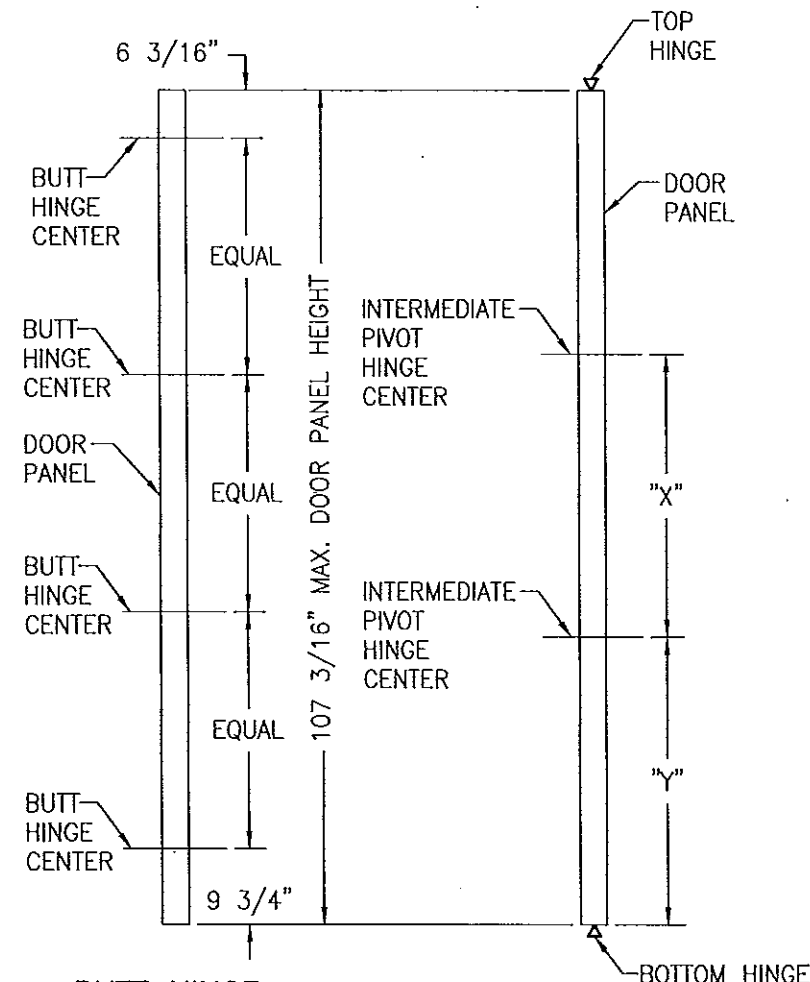
(APPLICABLE WITH BUTT & PIVOT HINGE DOORS ONLY)  
(FOR DOOR DETAIL & HARDWARE NOT SHOWN, SEE  
ELEVATIONS ON SHEETS 1 & 2)  
(ELEVATION SHOWN WITH STANDARD FRAMING.  
STOREFRONT FRAMING ALSO APPLIES)



**EXTERIOR ELEVATION;  
SINGLE DOOR WITH ALTERNATE  
INSTALLATION CONDITION**

SCALE: 1/2" = 1'-0"

(APPLICABLE WITH BUTT & PIVOT HINGE DOORS ONLY)  
(FOR DOOR DETAIL & HARDWARE NOT SHOWN, SEE  
ELEVATIONS ON SHEETS 1 & 2)  
(ELEVATION SHOWN WITH STANDARD FRAMING.  
STOREFRONT FRAMING ALSO APPLIES)



**BUTT HINGE  
LOCATION DIAGRAM**

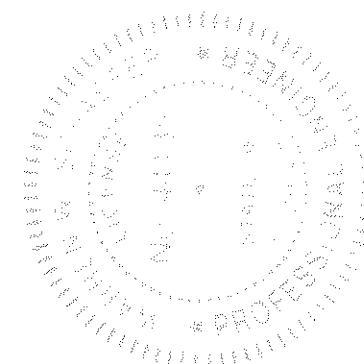
SCALE: 1/2" = 1'-0"

**PIVOT HINGE  
LOCATION DIAGRAM**

SCALE: 1/2" = 1'-0"

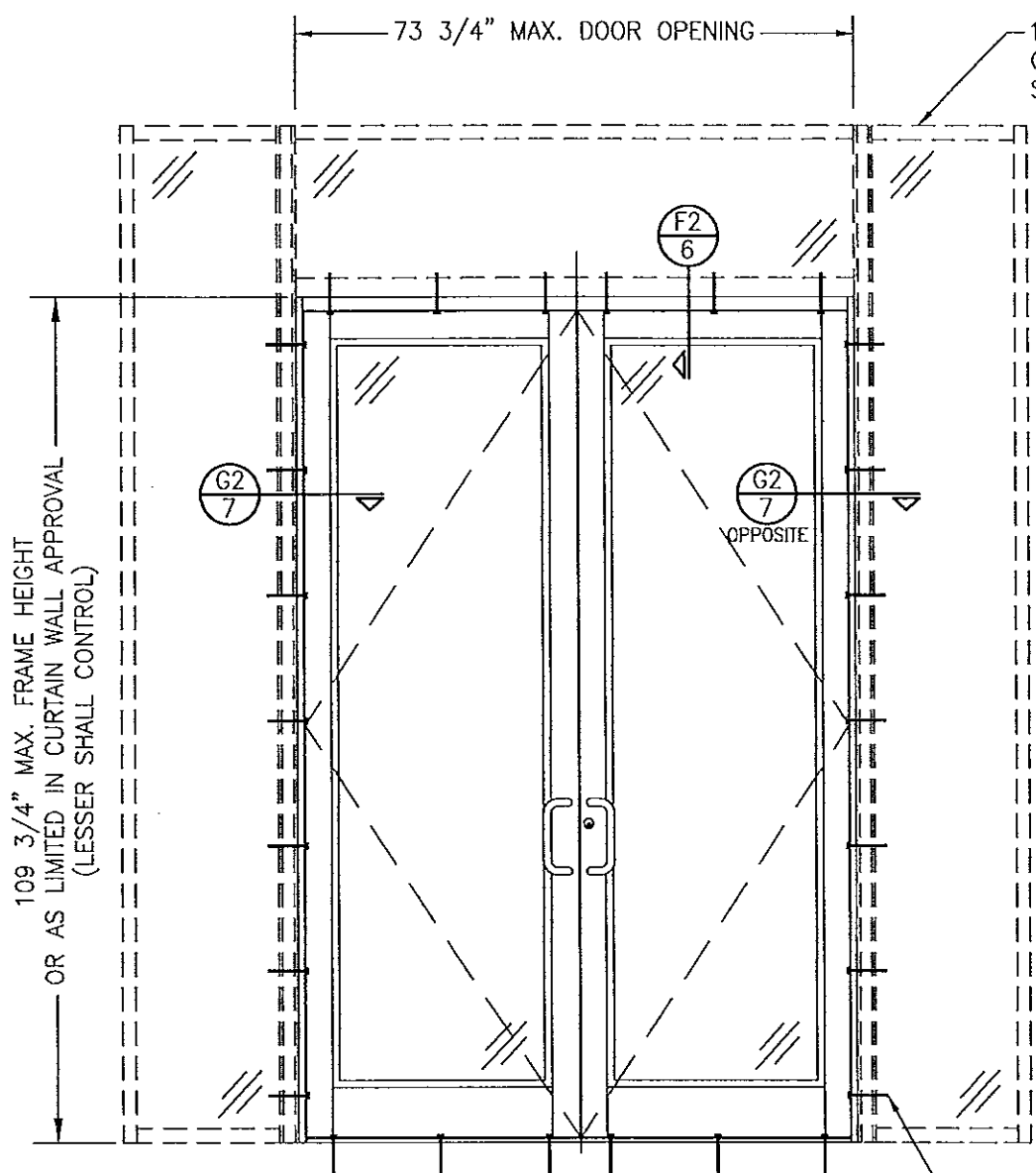
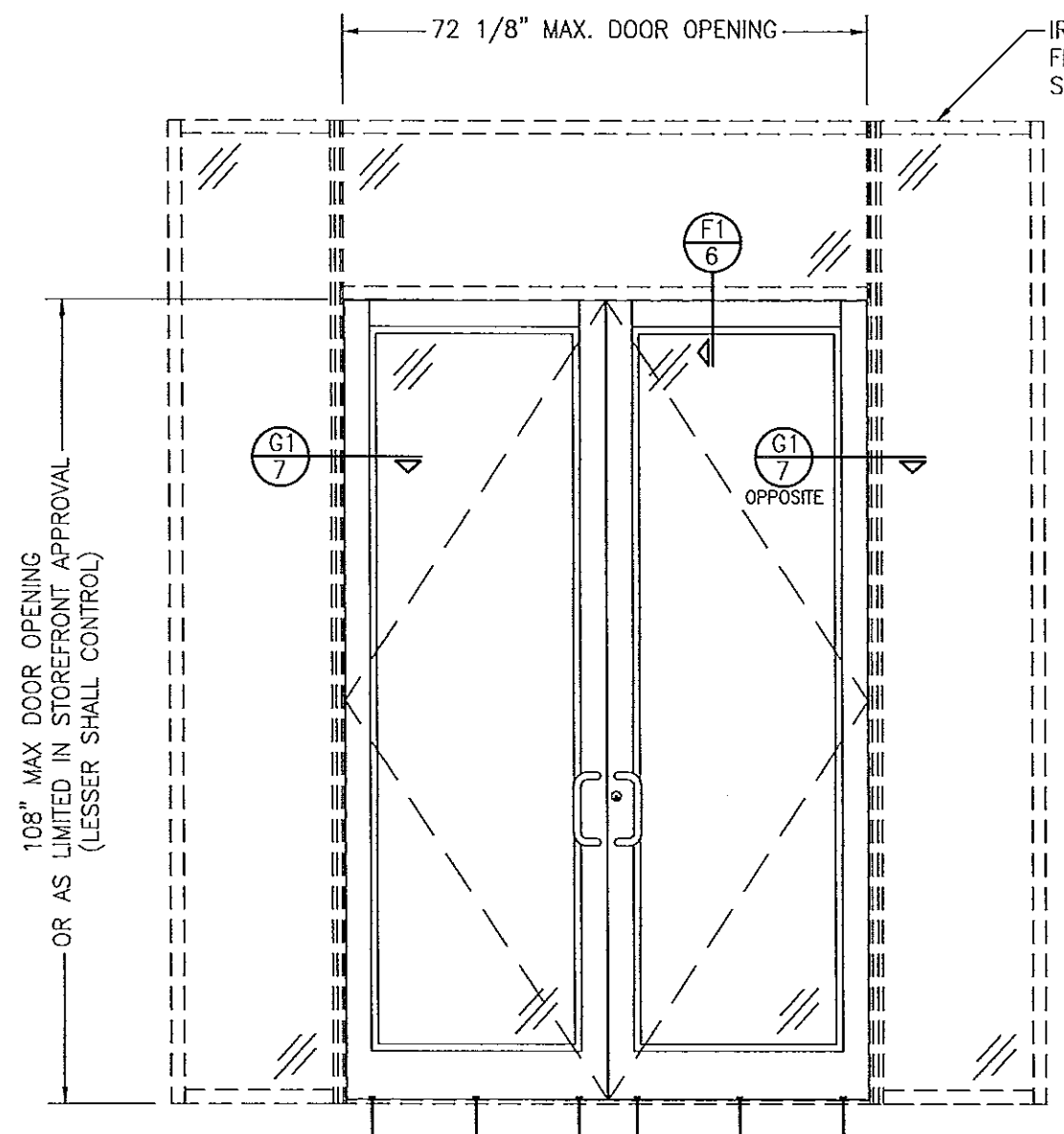
"X" = DOOR PANEL  
HEIGHT/2 - 17 3/8"  
"Y" = "X" + 3/4"

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 14-0602-01  
Expiration Date 04/22/19  
By *Isaac L. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.R.U.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 04/02/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE 350IR 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI			
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 JAN 06 2015		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1569		REV. C	
SHEET NO. 3 OF 9			

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 04/02/08
NO.	REVISION DESCRIPTION
BY	DATE
DRAWING TITLE 3501R 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION JAN 06 2015	WARREN W. SCHAEFER, P.E. P.E. NO. 44155
DRAWING NO. 1569	REV. C
SHEET NO. 4 OF 9	



**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:**

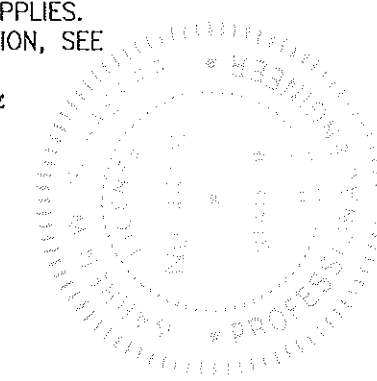
1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEETS 1 & 3.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL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

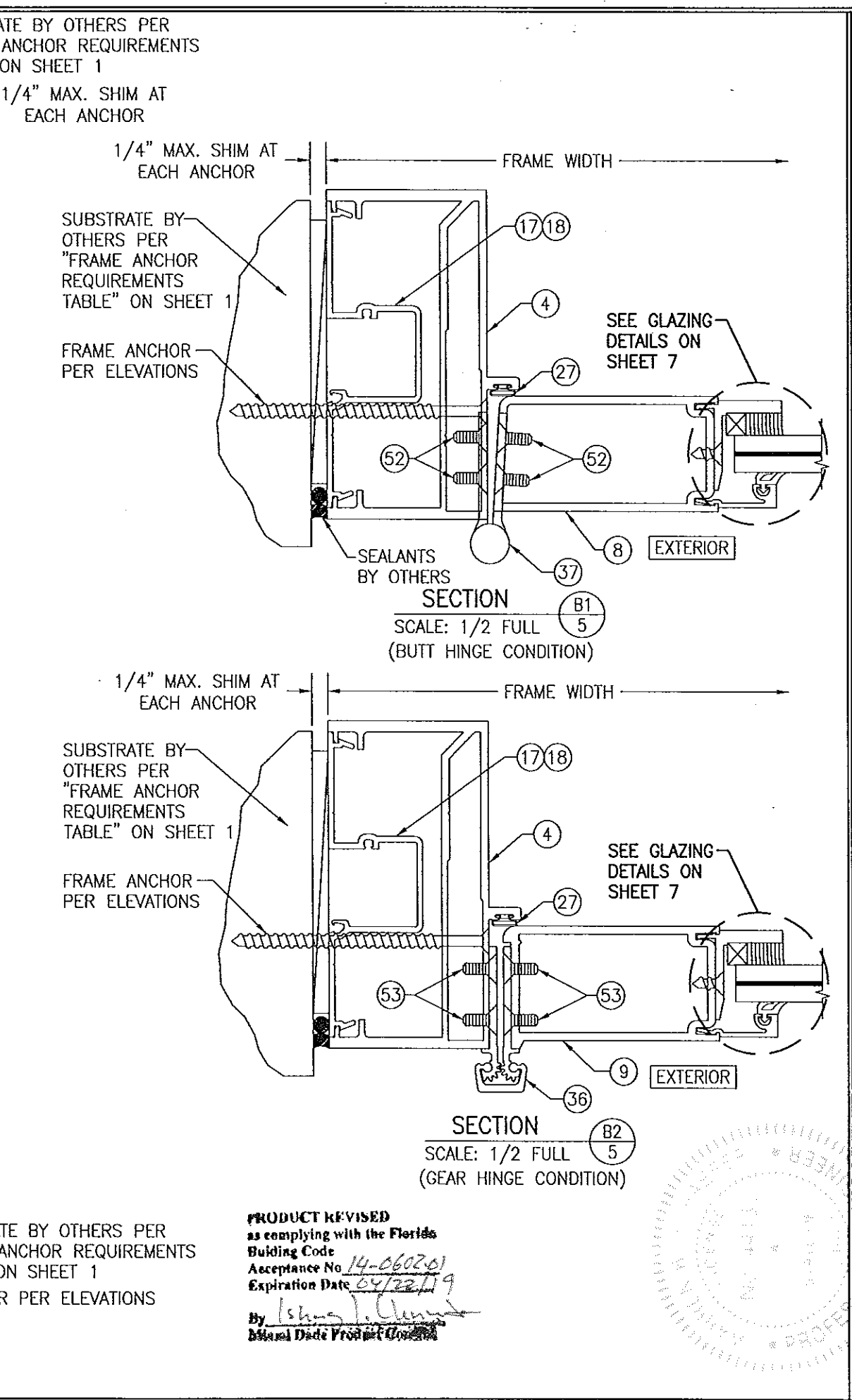
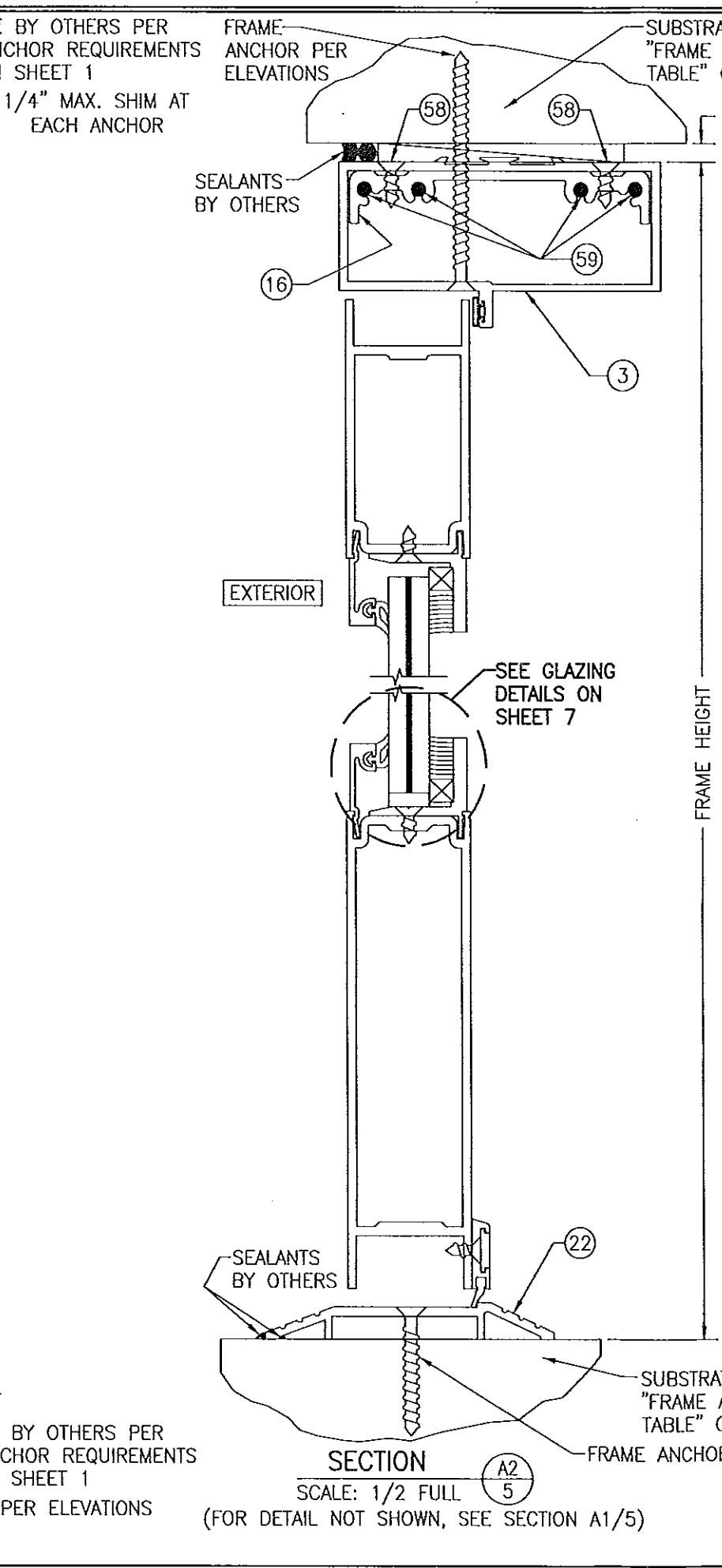
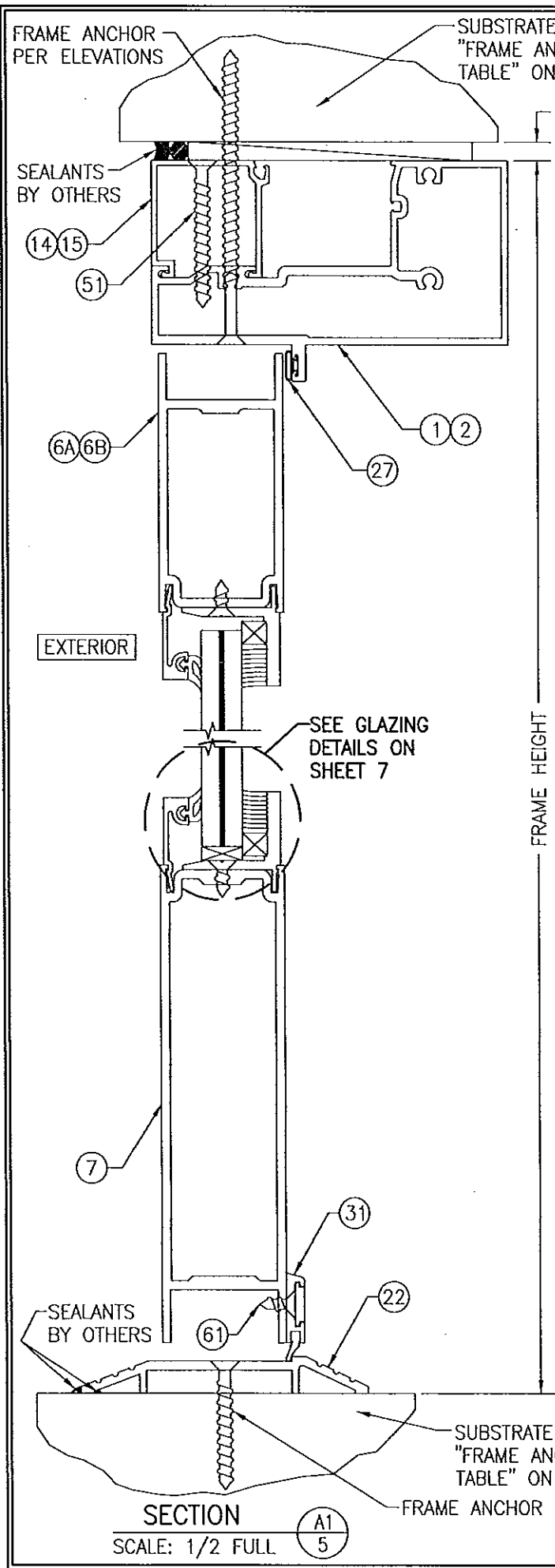
**ALLOWABLE DESIGN PRESSURE**  
+/-65 PSF

**NOTES:**

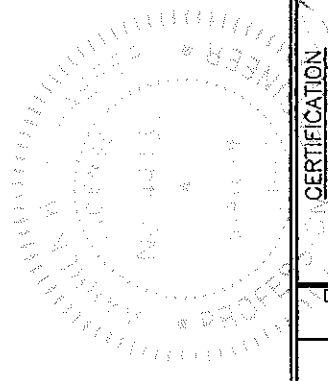
1. FOR DETAILS NOT SHOWN, SEE ELEVATIONS ON SHEETS 2 & 3.
2. DOUBLE DOOR SHOWN; SINGLE DOOR CONDITION ALSO APPLIES.
3. FOR STORE FRONT FRAMING REQUIREMENTS & INSTALLATION, SEE RESPECTIVE STORE FRONT APPROVAL.
4. LESSER ALLOWABLE PRESSURE RATING OF THE DOORS & STOREFRONT SHALL CONTROL FOR THE OVERALL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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 14-0602-01  
Expiration Date 04/22/19  
By *Ismael I. Chan*  
Miami Dade Product Center

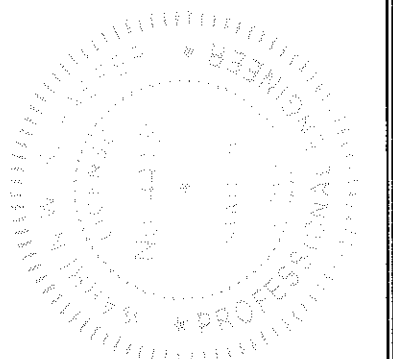
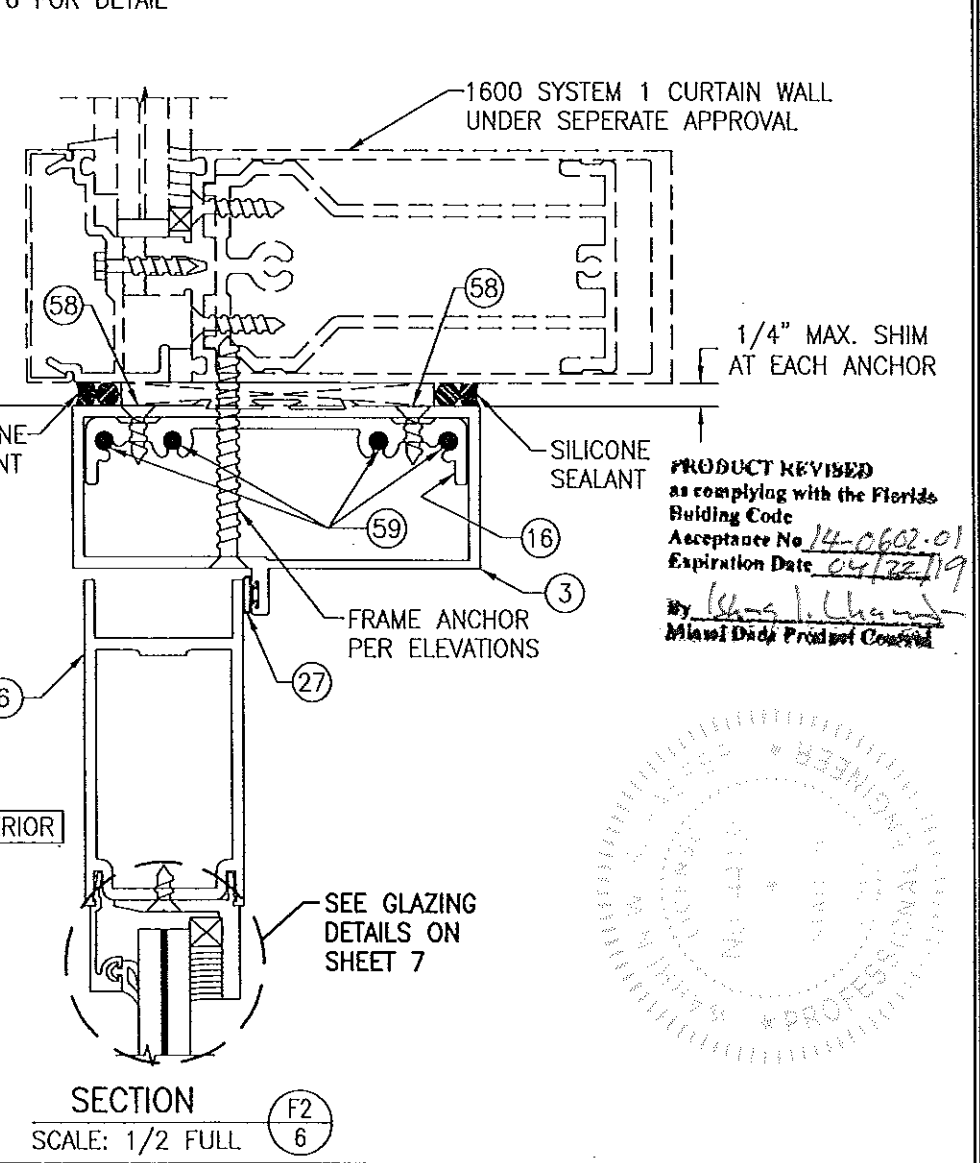
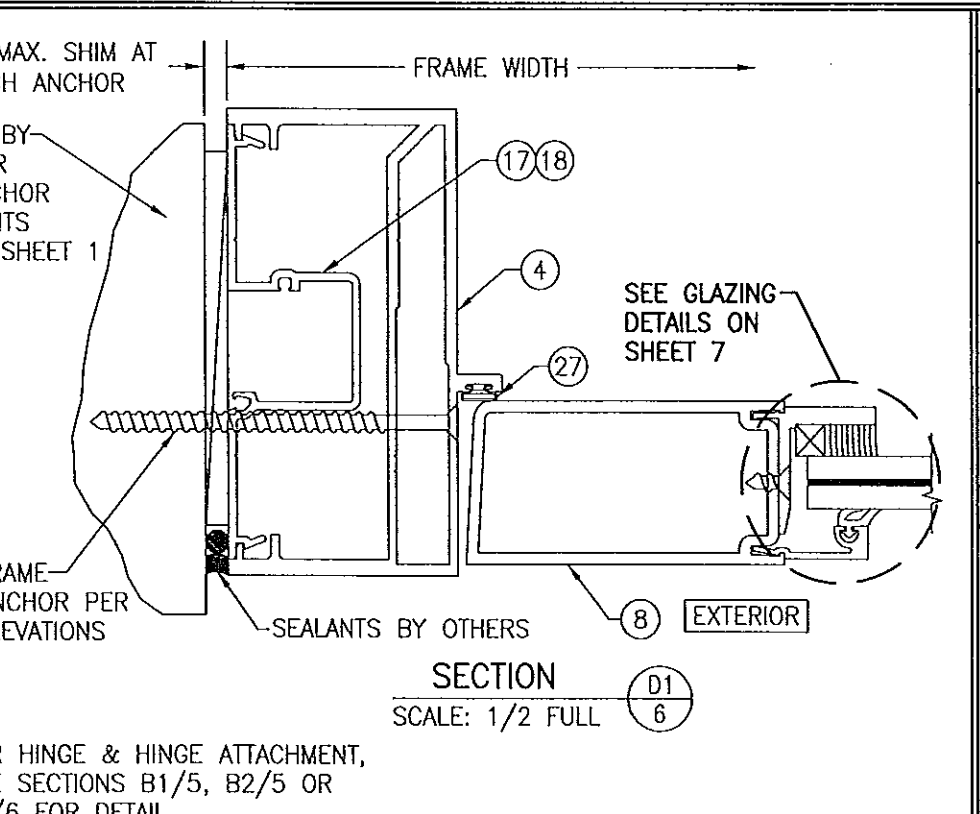
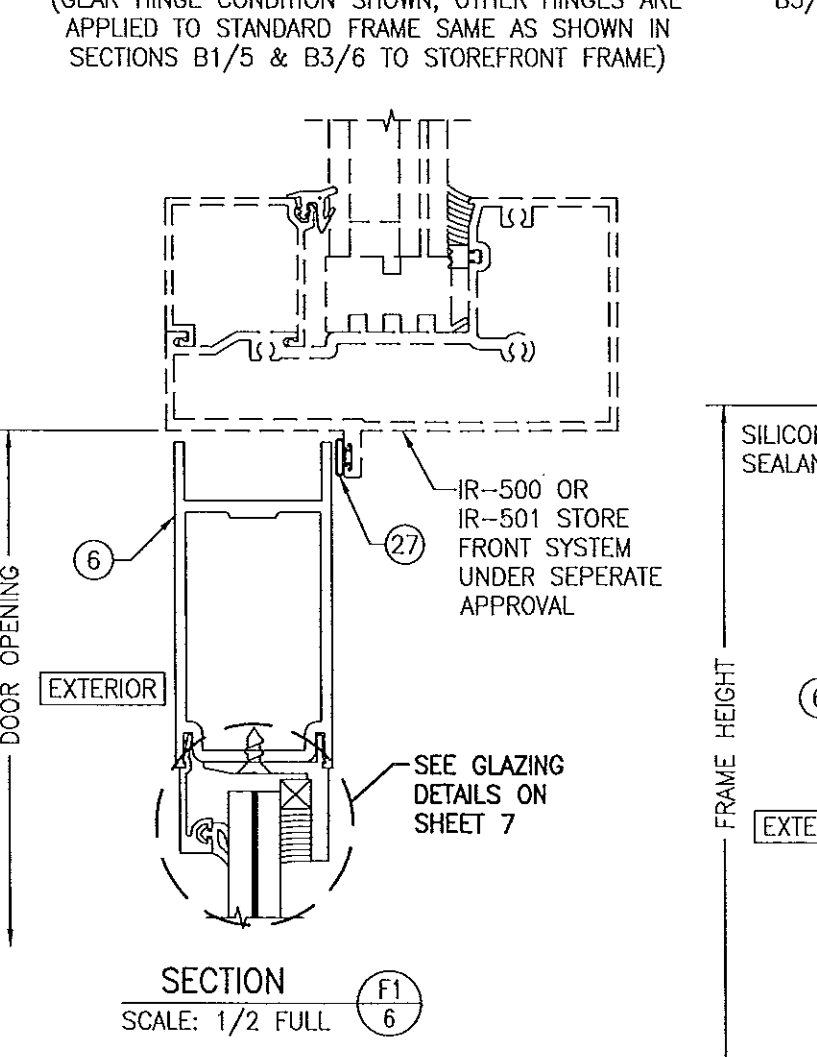
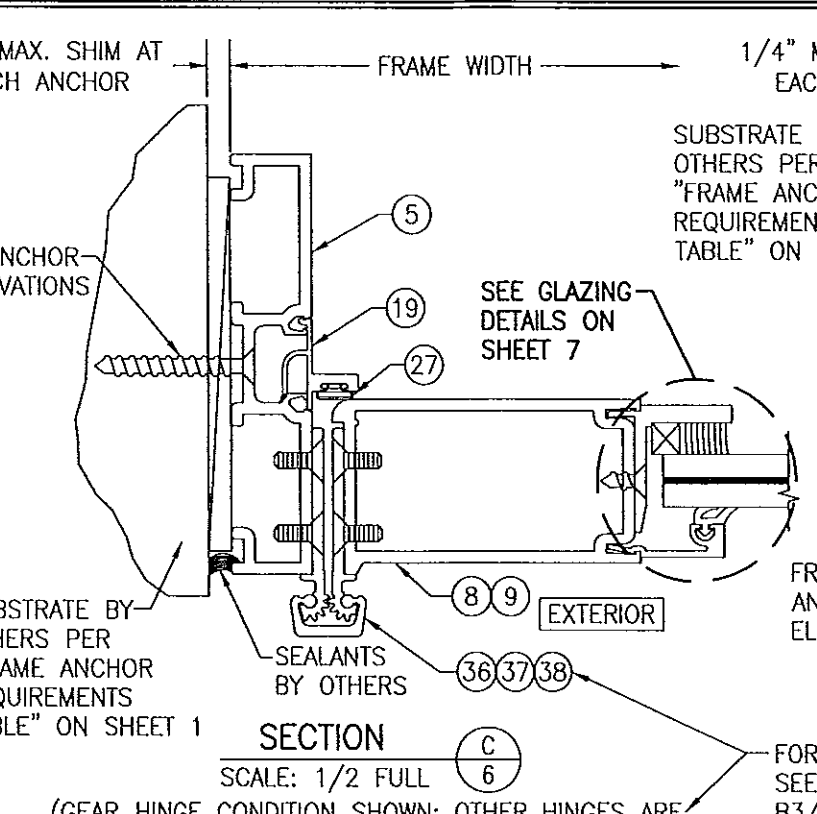
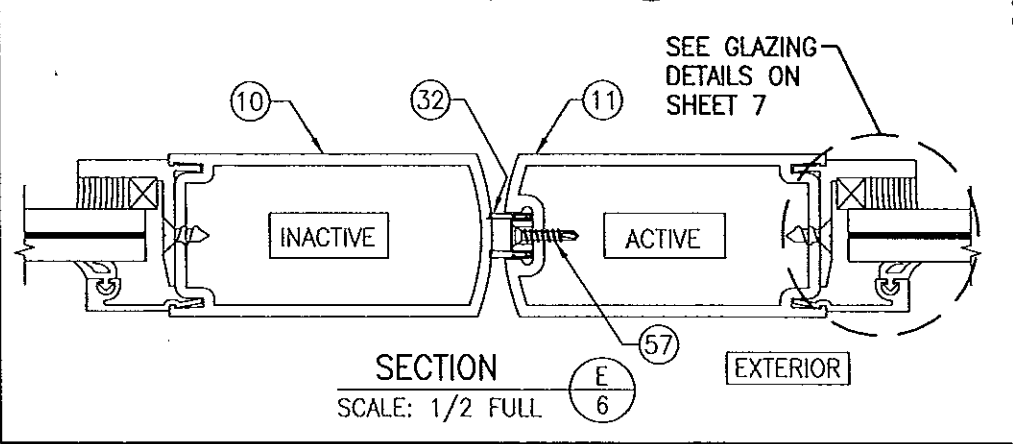
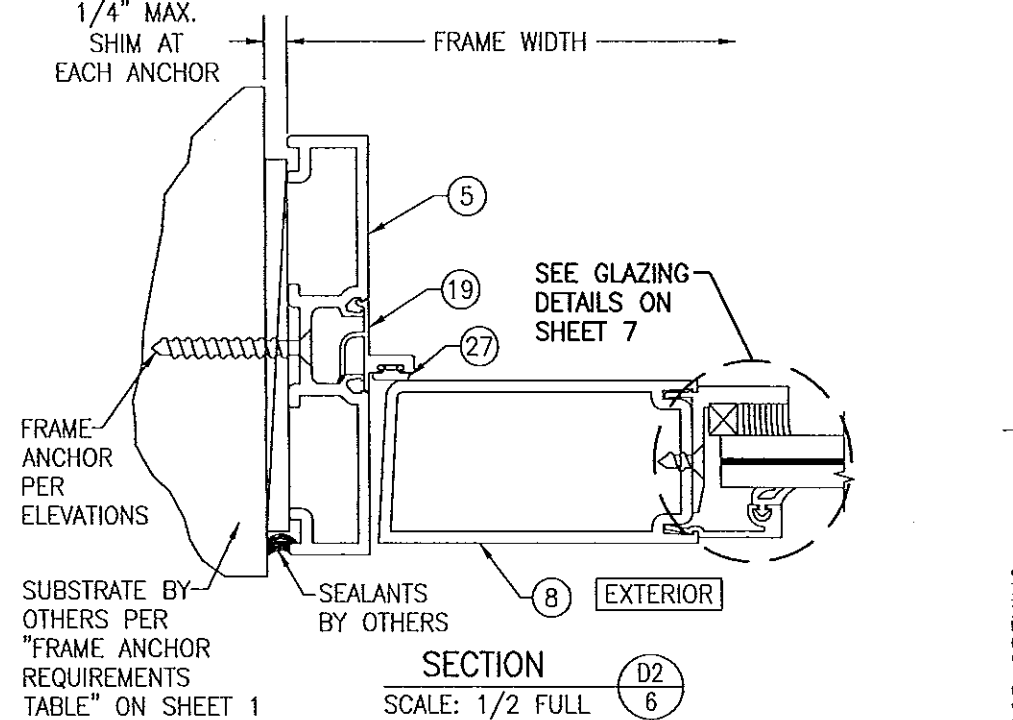
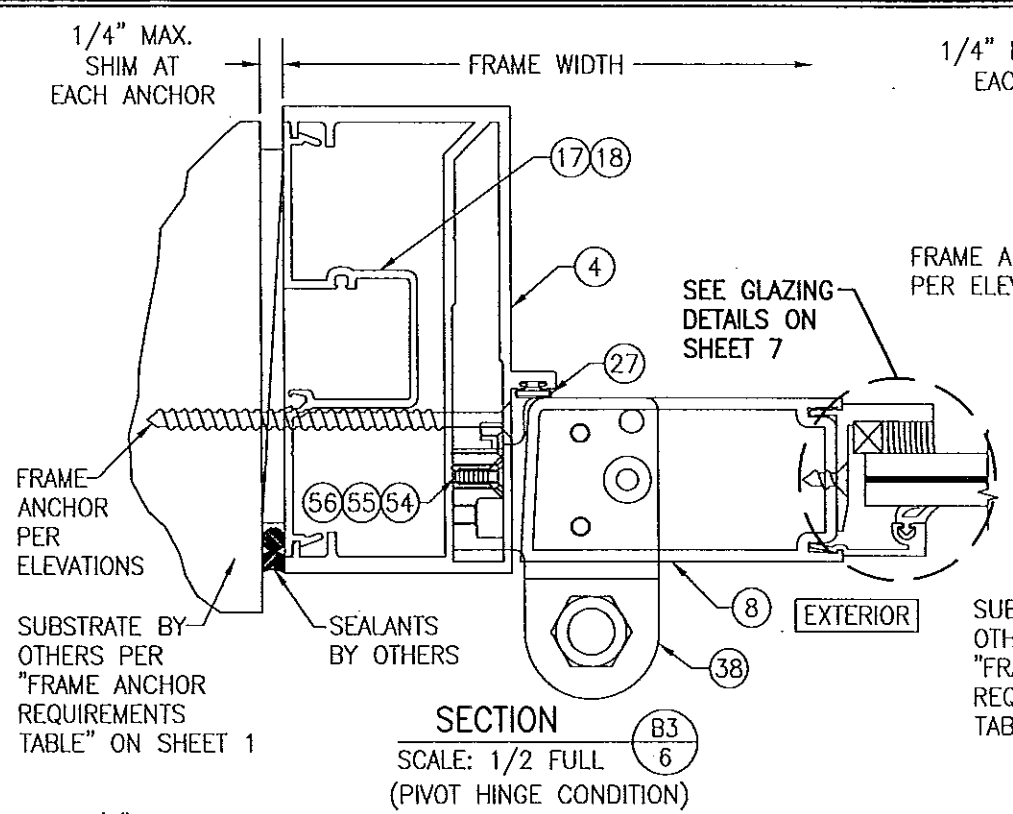




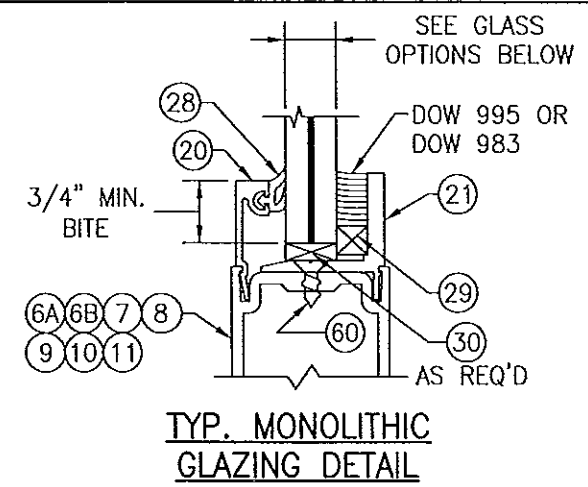
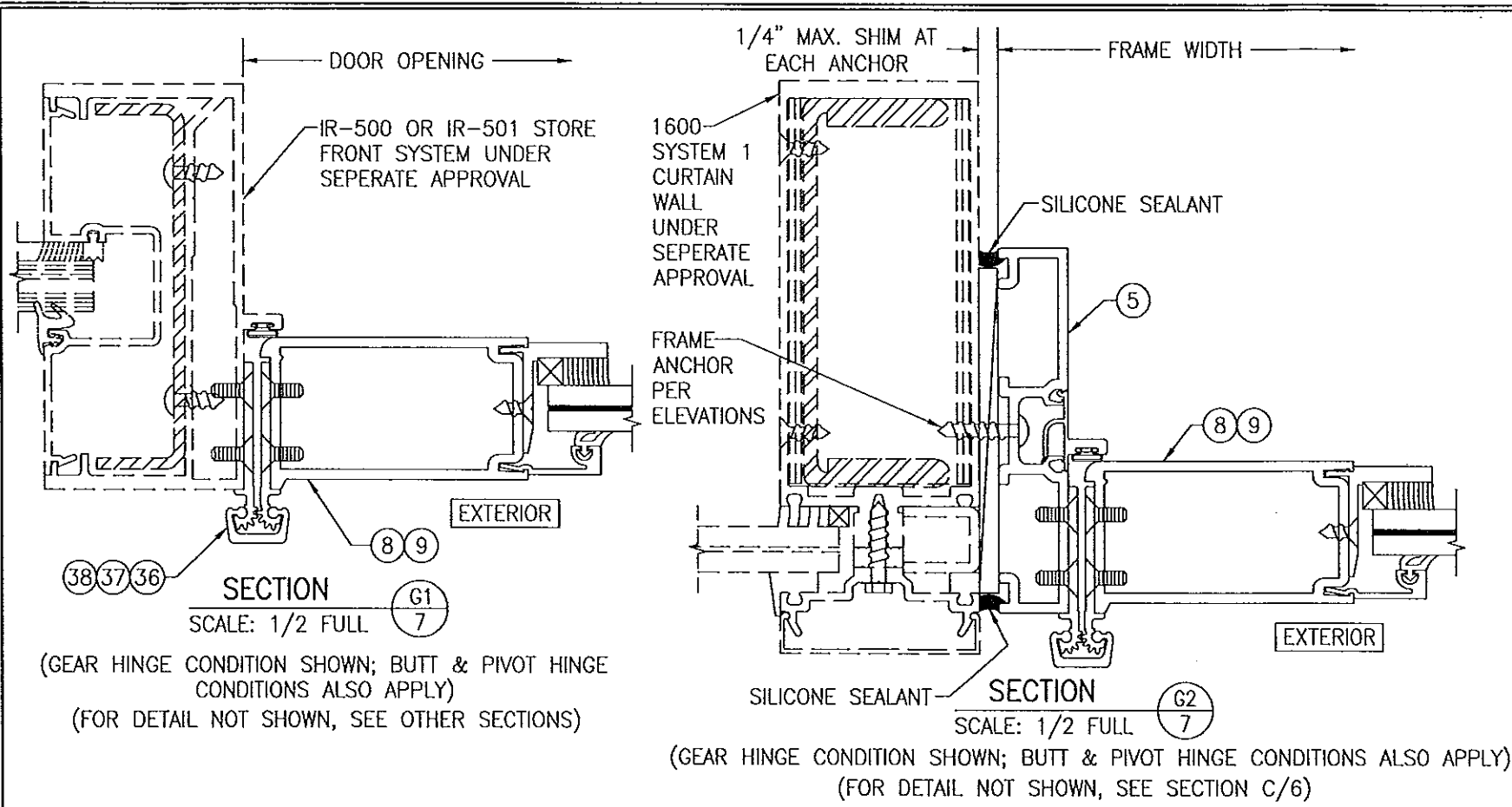
**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-060201  
 Expiration Date 04/22/19  
 By [Signature]  
 Miami Dade Product Council



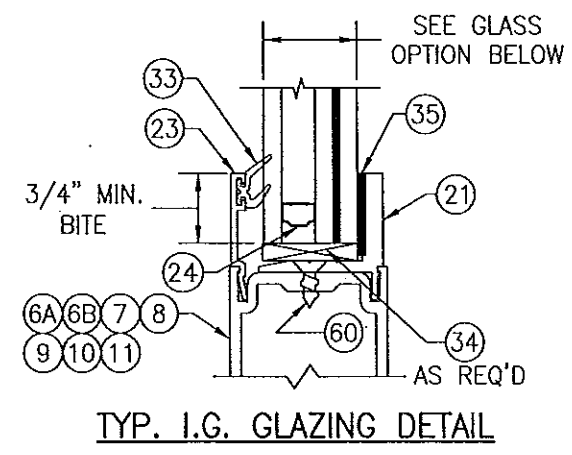
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/02/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 3501R 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: <b>JAN 06 2015</b>		DRAWING NO. 1569	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135		REV. C	
SHEET NO. 5		OF 9	



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 04/02/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 3501R 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI			
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	
DRAWING NO. 1569			
SHEET NO. 6 OF 9			
CERTIFICATION: JAN 06 2015			
WARREN W. SCHAEFER, P.E.			

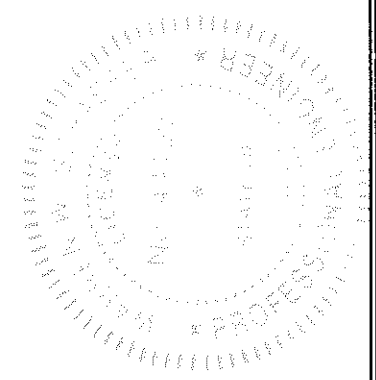


**GLASS OPTIONS FOR MONOLITHIC GLASS:**  
 OPTION 1: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.100 EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)  
 OPTION 2: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090 EASTMAN CHEMICAL CO. SAFLEX/1/4" HT. ST.)

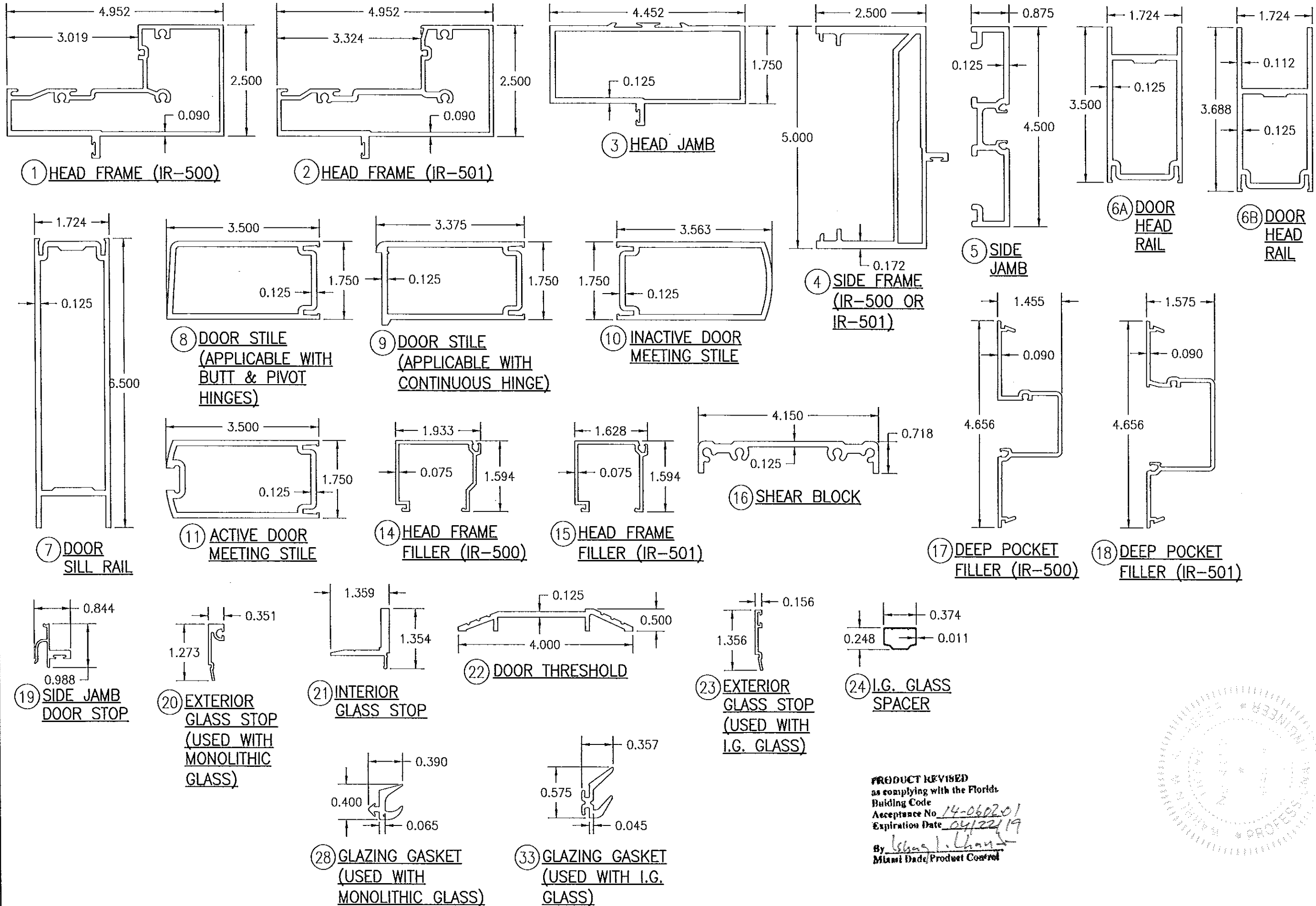


**GLASS OPTIONS FOR I.G. GLASS:**  
 OPTION 3: 1" THICK I.G. LAMINATED GLASS (3/16" TEMP EXTERIOR; 3/8" AIR SPACE; 3/16" HT. ST./0.090" DUPONT SG/3/16" HT. ST. INTERIOR)

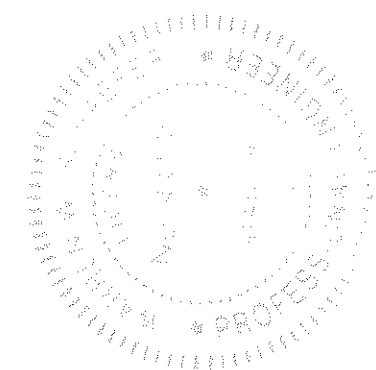
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Acceptance No. 14-0602.01  
 Expiration Date 04/22/19  
 By: *Ismael B. Chavez*  
 Miami Dept. Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/02/08	
NO.	REVISION	DESCRIPTION	DATE
<b>350IR 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI</b> MANUFACTURER: <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
<b>CERTIFICATION</b> <b>JAN 06 2015</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. <b>1569</b> SHEET NO. <b>7</b> OF <b>9</b>	



**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 14-060201  
 Expiration Date 04/22/19  
 By *Warren W. Schaefer*  
 Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 04/02/08	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE 3501R 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI			
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 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 06 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1569		REV. C	
SHEET NO. 8 OF 9			

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	575-022	HEAD FRAME (IR-500)	6063-T6 ALUMINUM
2	575-122	HEAD FRAME (IR-501)	6063-T6 ALUMINUM
3	450-502	HEAD JAMB	6063-T6 ALUMINUM
4	575-051	SIDE FRAME (IR 500-OR IR-501)	6063-T6 ALUMINUM
5	163-036	SIDE FRAME (1600 DR JB ADAPTOR)	6063-T6 ALUMINUM
6A	200-023	DOOR; TOP RAIL	6063-T6 ALUMINUM
6B	200-024	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
14	575-004	HEAD FRAME FILLER (IR-500)	6063-T6 ALUMINUM
15	575-104	HEAD FRAME FILLER (IR-501)	6063-T6 ALUMINUM
16	450-103	SHEAR BLOCK	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
19	450-520	SIDE JAMB DOOR STOP	6063-T6 ALUMINUM
20	575-043	EXTERIOR GLASS STOP (USED WITH MONOLITHIC GLASS)	6063-T6 ALUMINUM
21	575-045	INTERIOR GLASS STOP	6063-T6 ALUMINUM
22	069-139	DOOR THRESHOLD	6063-T6 ALUMINUM
23	575-040	EXTERIOR GLASS STOP (USED WITH I.G. GLASS)	6063-T6 ALUMINUM
24	-	I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
SEALS AND SEALANTS			
27	027-078	DOOR BULB WEATHERING	ALCRYN
28	027-563	GLAZING GASKET (USED WITH MONOLITHIC GLASS)	TREMCO TR-13536E EPDM DUROMETER 70 +/-5
29	127-041	GLAZING TAPE / SILICONE SPACER	SEMI-RIGID POLYURETHANE FOAM
30	027-342	SETTING BLOCK (USED WITH MONOLITHIC GLASS)	NEOPRENE
31	200-795	DOOR BOTTOM RAIL WEATHER SWEEP	VARIED
32	200-497	ADJUSTABLE ASTRAGAL WEATHERING	VARIED
33	027-557	GLAZING GASKET (USED WITH I.G. GLASS)	KRP 027-557 POLYPROPYLENE & SANTOPRENE DUROMETER 65 +/-5
34	027-059	SETTING BLOCK (USED WITH I.G. GLASS)	NEOPRENE
35	200-948	GLAZING TAPE (USED WITH I.G. GLASS)	3M VHB
HARDWARE			
36	050-821	CONTINUOUS GEAR HINGE	BY HAGER/ROTON
37	037-232	BUTT HINGE	BY HAGER
38	050-322	TOP OFFSET PIVOT HINGE	BY KAWNEER
	050-331	INTERMEDIATE OFFSET PIVOT HINGE	
	050-326	RH BOTTOM OFFSET PIVOT HINGE	
	050-327	LH BOTTOM OFFSET PIVOT HINGE	

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
HARDWARE			
39	3-POINT	LOCK ASSEMBLY FOR ACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 1)	BY ADAMS-RITE
	50-075	BOLT GUIDE	
	50-078	TOP BOLT	
	50-100	DEADLOCK	
	37-368	BOTTOM BOLT	
	35-001	CYLINDER	BY KAWNEER
	37-176	THUMBTURN	
	137-700	CO-9 PUSH / CP-II PUSH PACKAGE	
40	50-079	INACTIVE DOOR TOP FLUSH BOLT (APPLICABLE AS PART OF LOCK OPTION 1)	BY ADAMS-RITE
41	50-075	INACTIVE DOOR BOTTOM FLUSH BOLT (APPLICABLE AS PART OF LOCK OPTION 1)	BY ADAMS-RITE
42	-	LOCK ASSEMBLY/CVR PANIC DEVICE FOR ACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 2)	VON DUPRIN HH9947
		DEADBOLT/CYLINDER	SCHLAGE 037304
43	-	LOCK ASSEMBLY/PANIC DEVICE FOR INACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 2)	VON DUPRIN HH9947
44	-	LOCK ASSEMBLY/CVR PANIC DEVICE FOR ACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 2)	FALCON HH1690
		DEADBOLT/CYLINDER	SCHLAGE 037304
45	-	LOCK ASSEMBLY/PANIC DEVICE FOR INACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 2)	VON DUPRIN HH9947
46	-	LOCK ASSEMBLY/PANIC DEVICE FOR INACTIVE DOOR (APPLICABLE AS PART OF LOCK OPTION 2)	FALCON HH1690
MISCELLANEOUS FASTENERS			
51	-	NO. 12 X 2" SCREW	3" FROM ENDS & MAX. 11" O.C.
52	-	NO. 12-24 X 9/16" S.S SCREW	8 PER HINGE
53	-	NO. 12-24 X 13/32" SCREW	2 9/16" FROM ENDS & MAX. 5 1/8" O.C. (52 MAX. PER HINGE)
54	-	5/16"-18 X 5/8" SCREW	2 PER TOP PIVOT HINGE
55	-	NO. 12-24 X 9/16" S.S SCREW	2 PER INTERMEDIATE PIVOT HINGE
56	-	1/4-20 X 3/8" SCREW	3 PER BOTTOM PIVOT HINGE
57	-	NO. 6 X 11/16" SCREW	10 PER LEAF
58	-	NO. 10 X 9/16" S.S SCREW	2 PER CLIP
59	-	NO. 10 X 1 19/32" S.S. SCREW	4 PER CLIP
60	-	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
61	-	NO. 6 X 3/8" S.S. SCREW	1/4" FROM ENDS & MAX. 9 17/32" O.C.

DRAWN BY: W.R.N.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/02/08
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>350IR 9' OUTSWING ALUMINUM STOREFRONT DOORS - LMI</b>	
MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION <b>JAN 06 2015</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44133	
DRAWING NO. <b>1569</b>	REV. <b>C</b>
SHEET NO. <b>9 OF 9</b>	

PRODUCT 1569  
as complying with the Florida  
Building Code  
Acceptance No. 14-0602-01  
Expiration Date APR 22, 2019  
By: [Signature]  
Miami State Product Control