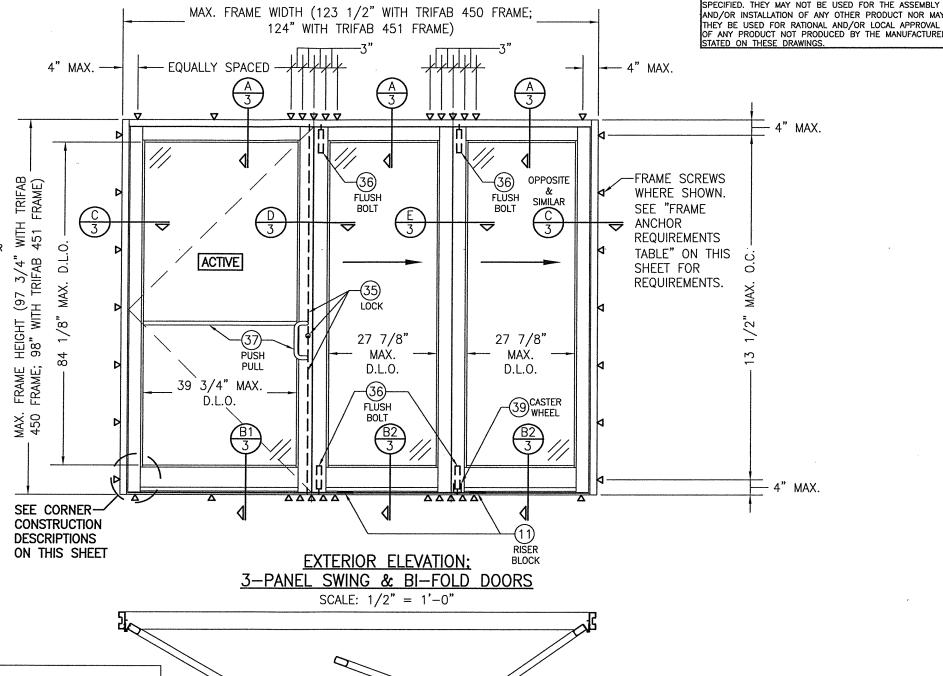
GENERAL NOTES:

- 1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
- ${\bf 2.}$ 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 2018 IBC REFERENCED STANDARDS AAMA 1304 & ASTM E330, E1886 & E1996 FOR LARGE MISSILE IMPACT PRODUCTS.
- 5. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC).
- 6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- 7. ALL ANCHORS SECURING PRODUCT FRAMES 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 INTERNATIONAL BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
- 9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE SEPARATED OR COATED AS REQUIRED TO AVOID CORROSION OF EITHER MATERIAL.
- 10. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN ARE QUALITY ASSURED BY AN APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH APPLICABLE STANDARDS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
- 11. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF THEY ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE—IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

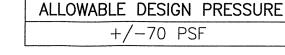
NOTE: THESE DOOR UNITS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON—HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG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



FRAME ANCHOR REQUIREMENTS TABLE

FRAME SCREWS OPENING TYPE MINIMUM MINIMUM FRAME TO OPENING FASTENER TYPE (SUBSTRATE) EMBED EDGE DIST (2) MIN. 2X6 WOOD FRAME OR BUCK 7/8" 1 1/4" NO. 12 SMS OR WOOD SCREW (MIN. GR. 3 & G=0.55) MIN. 16 GA. 50 KSI METAL STUD NO. 12 GR. 5 SELF TAP/DRILL SCREW FULL 1/2" MIN. 1/8" THK A36 STEEL NO. 12 GR. 5 SELF TAP/DRILL SCREW 1/2" FULL MIN. 0.10" THK 6063-T5 ALUM. NO. 12 GR. 5 SELF TAP/DRILL SCREW FULL 1/2" (1) 1/4" CONCRETE SCREW (3) MIN. C-90 CMU 1/4 2 1/2 (1) 1/4" CONCRETE SCREW 2 1/2" MIN. 2500 PSI CONCRETE 1 3/4"

- (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) 2X6 BUCKS SHALL BE OF A MINIMUM DEPTH REQUIRED TO MEET ANCHOR EDGE DISTANCE REQUIREMENTS BUT NO LESS THAN 4".
- (3) CMU IS NOT APPLICABLE AT HEAD & SILL



CORNER CONSTRUCTION:

FRAME HEAD: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #10). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 4 NO. 10 X 1 19/32" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 10 X 9/16" FHTF SCREWS. CORNERS ARE SEALED WITH SILICONE SEALANT. SILL: VERTICAL MEMBERS RUN THROUGH WHILE THE THRESHOLD IS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBER VIA A PIVOT ASSEMBLY OR CLIP (ITEM #20). THE CLIP IS MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER WITH 3 NO. 12-24 X 3/8" FHMS. THE THRESHOLD MEMBER IS ATTACHED TO THE CLIP BLOCK WITH 2 NO. 12-24 X 3/8" FHMS. CORNERS ARE SEALED WITH SILICONE SEALANT.

<u>DOOR PANEL:</u> VERTICAL STILES RUN THROUGH AND ARE SECURED TO THE RAILS AT THE TOP & BOTTOM WITH 5/16" 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.

DRAWING NO. REV.
1902T
SHEET NO.
1 OF 6

2021

CHECKED BY W.W.S.

02/11/21

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

& 4980)

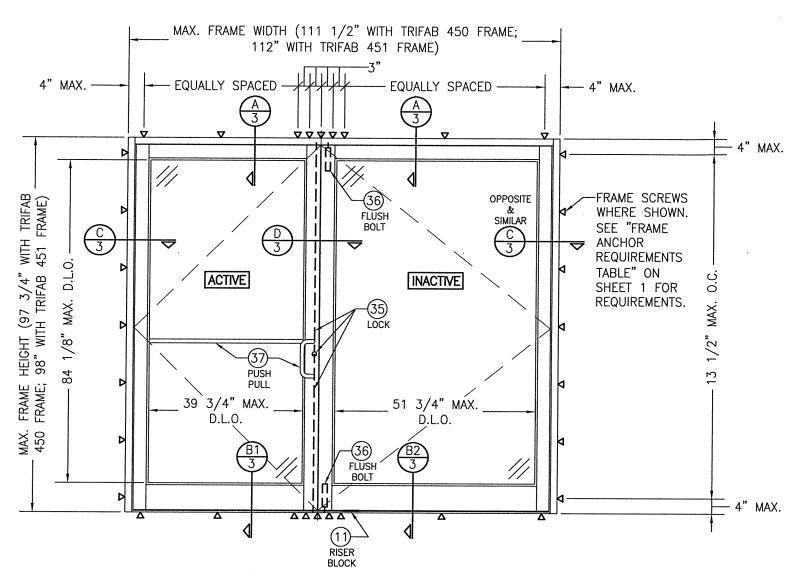
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W. W. SCHAEFER ENGINEERING
CONSULTING, P.A. (REG. NO. F-1
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

AUTO

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SWINGING

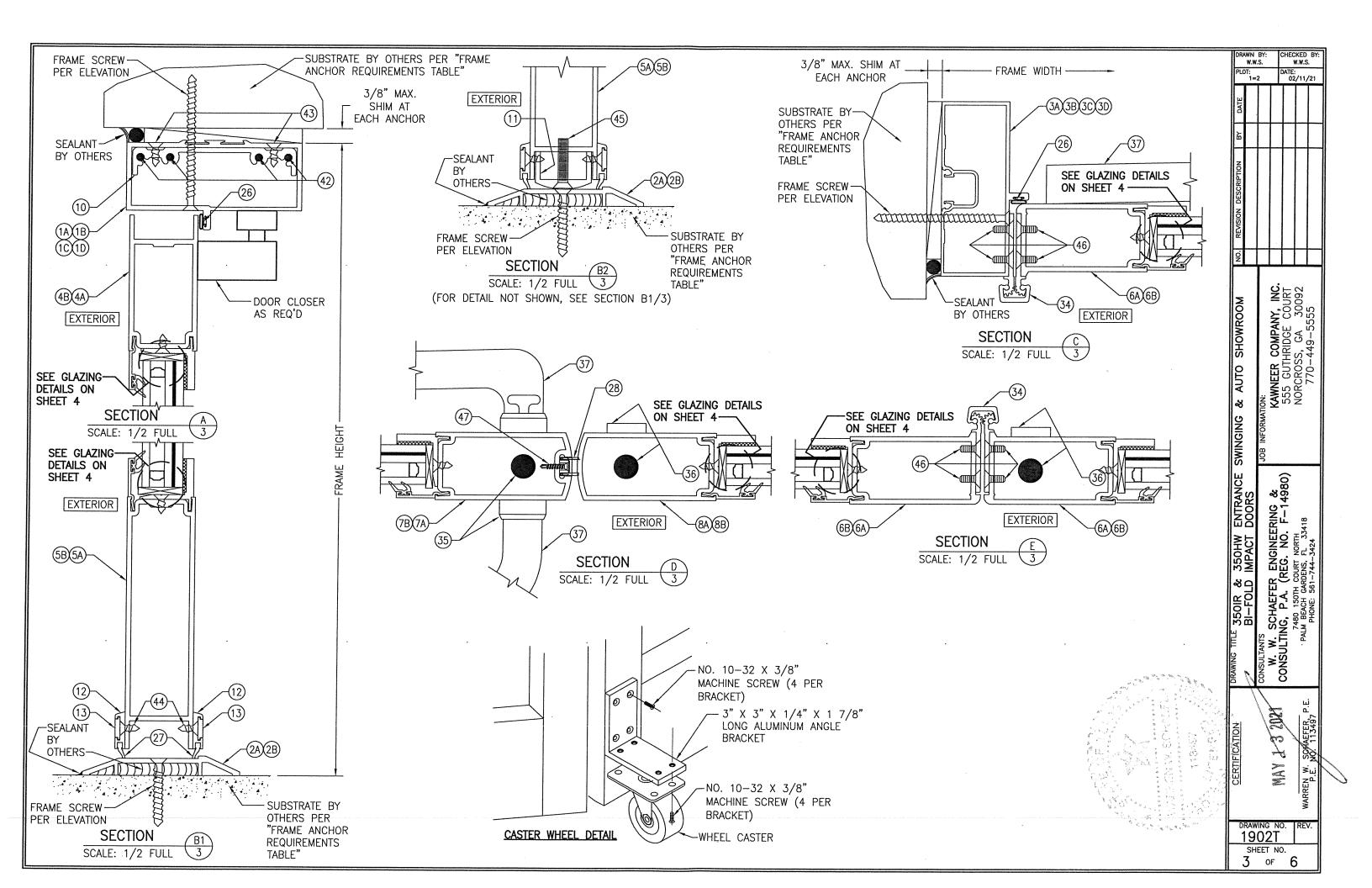


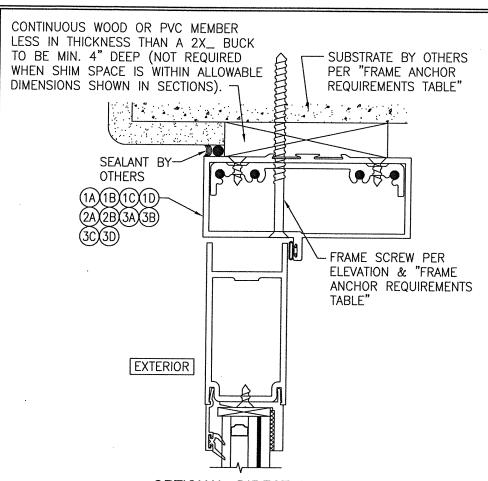
EXTERIOR ELEVATION: DOUBLE SWING DOOR

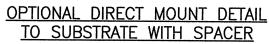
SCALE: 1/2" = 1'-0"

NOTE: ONLY 350HW DOORS ARE APPLICABLE FOR THIS CONFIGURATION (350IR DOORS ARE NOT APPLICABLE).

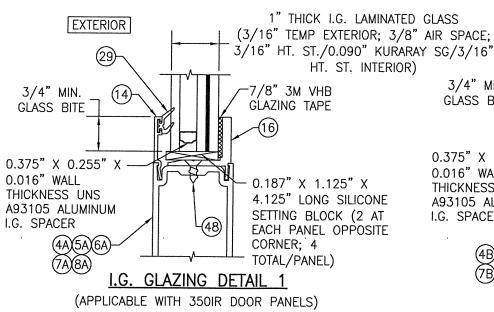
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	""LE 350IR & 350HW ENTRANCE SWINGING & AUTO SHOWROOM BI-FOLD IMPACT DOORS	JOB INFORMAT	555 GUTHRIDGE COURT		//0-449-5555	
. Dakumo titi c	BI-FOLD IMPACT DOORS	CONSULTANTS W. W. SCHAEFER ENGINEERING &	CONSULTING, P.A. (REG. NO. F-14980)	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418	PHONE: 561-744-3424	
	CERTIFICATION	100 c 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		WARREN W SCHAFFER PF	NO. 113497	
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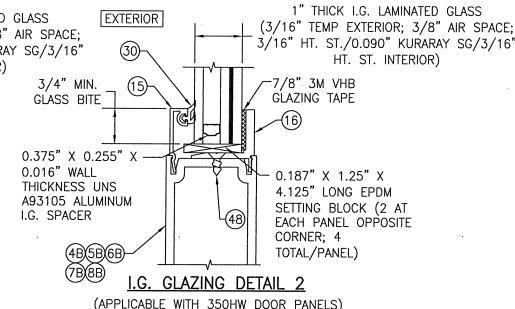






(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME) (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)





THE CERTIFICATION OF THE 350IR & 350HW ENTRANCE BI-FOLD IMPACT DOORS

CONSULTANTS

W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)

WARREN W. SCHAEFER P.E. PALM BEACH GARDENS, FL. 33418

PALM BEACH GARDENS, FL. 33418

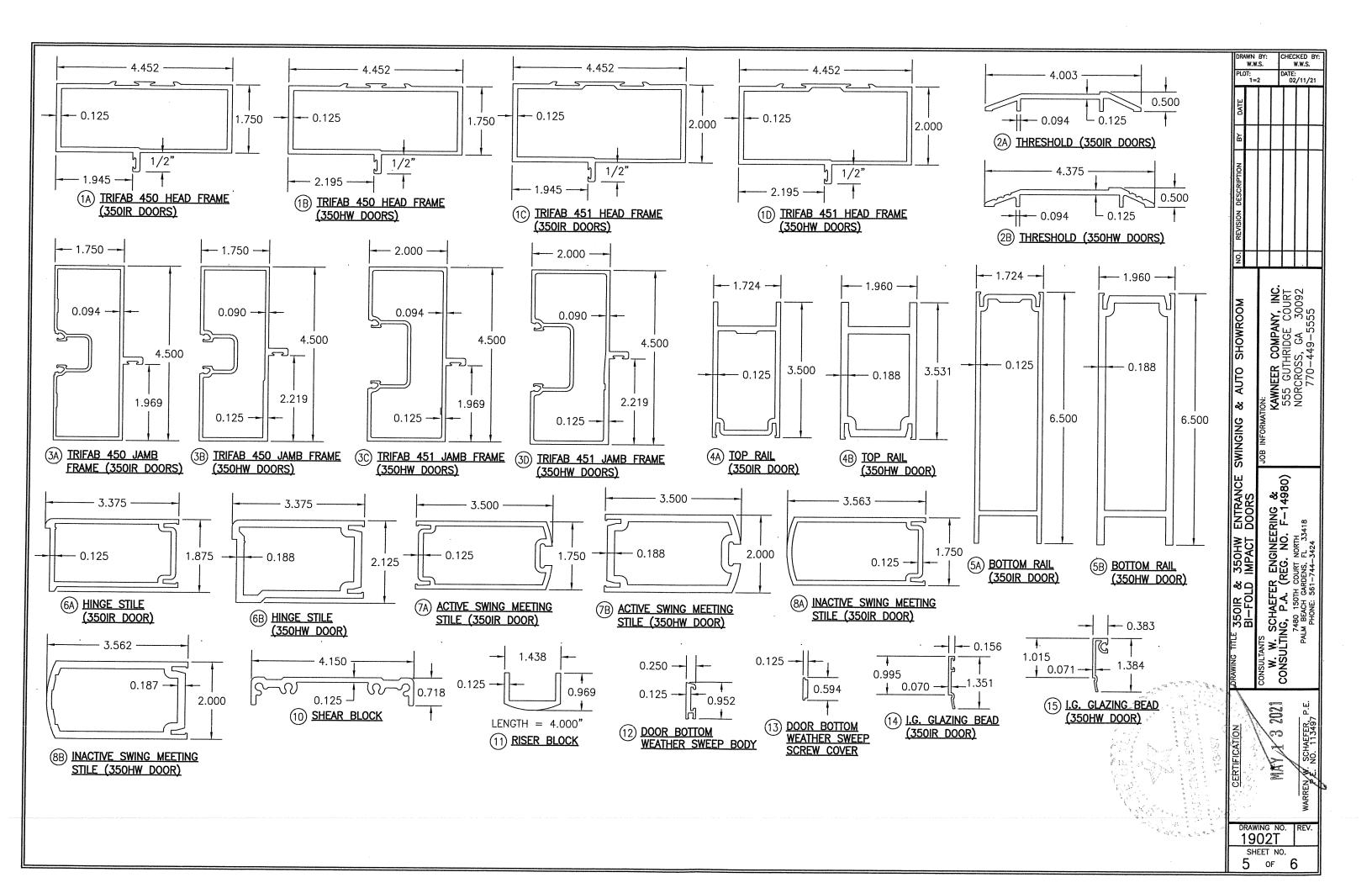
CHECKED BY: W.W.S.

DATE: 02/11/21

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SWINGING



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES		
HEN #	L	MANUFACTURER/ NUTES		
1 A	PARTS	COCZ TC ALLBANDIA		
1A 1B	TRIFAB 450 HEAD FRAME (350IR DOORS) TRIFAB 450 HEAD FRAME (350HW DOORS)	6063-T6 ALUMINUM		
	TRIFAB 450 HEAD FRAME (350IR DOORS)	6063-T6 ALUMINUM		
1C	TRIFAB 451 HEAD FRAME (350HW DOORS)	6063-T6 ALUMINUM		
1D 2A	THRESHOLD (USED WITH 350IR DOORS)	6063—T6 ALUMINUM		
2B	THRESHOLD (USED WITH 350HW DOORS)	6063-T6 ALUMINUM		
3A	TRIFAB 450 JAMB FRAME (350IR DOORS)	6063-T6 ALUMINUM 6063-T6 ALUMINUM		
3B	TRIFAB 450 JAMB FRAME (350HW DOORS)	6063-T6 ALUMINUM		
3C	TRIFAB 451 JAMB FRAME (350IR DOORS)	6063-T6 ALUMINUM		
3D	TRIFAB 451 JAMB FRAME (350HW DOORS)	6063-T6 ALUMINUM		
4A	TOP RAIL (350IR DOOR)	6063-T6 ALUMINUM		
4B	TOP RAIL (350HW DOOR)	6063-T6 ALUMINUM		
5A	BOTTOM RAIL (350IN DOOR)	6063-T6 ALUMINUM		
5B	BOTTOM RAIL (350HW DOOR)	6063-T6 ALUMINUM		
6A	HINGE STILE (350IR DOOR)	6063-T6 ALUMINUM		
6B	HINGE STILE (350HW DOOR)	6063-T6 ALUMINUM		
7A	ACTIVE SWING MEETING STILE (350IR DOOR)	6063-T6 ALUMINUM		
7A 7B	ACTIVE SWING MEETING STILE (350HW DOOR)	6063-T6 ALUMINUM		
7.B 8.A	INACTIVE SWING MEETING STILE (350IN DOOR)	6063-16 ALUMINUM		
8B	INACTIVE SWING MEETING STILE (350HW DOOR)	6063-T6 ALUMINUM		
10	SHEAR BLOCK	6063-T6 ALUMINUM		
<u></u>	RISER BLOCK	6063-T6 ALUMINUM		
12	DOOR BOTTOM WEATHER SWEEP BODY	6063-T6 ALUMINUM		
13	DOOR BOTTOM WEATHER SWEEP SCREW COVER	6063-T6 ALUMINUM		
14	GLAZING BEAD (350IR DOOR)	6063-T6 ALUMINUM		
15	GLAZING BEAD (350HW DOOR)	6063-T6 ALUMINUM		
ļ	INTERIOR GLAZING STOP	6063-T6 ALUMINUM		
20	THRESHOLD CLIP	1010–1020 H.R. STEEL		
	SEALS & SEALANTS			
26	DOOR BULB WEATHERING	ALCRYN DUROMETER 60 +/-5 & RIGID PVC		
27	DOOR SWEEP	EPDM 70 +/-5		
28	ADJUSTABLE ASTRAGAL WEATHERING	5052-H32 ALUMINUM/NYLON/POLYURETHANE/EPDM		
	350IR GLAZING GASKET	KRP 027-557 POLYPROPYLENE & SANTOPRENE DUROMETER 65 +/-5		
30	350HW GLAZING GASKET	TREMCO TR-13536E EPDM DUROMETER 70 +/-5		
	HARDWARE			
34	CONTINUOUS HINGE (KAWNEER NO. 050-820)	HAGER/ROTON, STANLEY OR ABH		
35	ACTIVE PANEL LOCK ASSEMBLY	ADAMS-RITE 3-POINT LOCK SYSTEM WITH KAWNEER'S		
	•	CYLINDER & THUMBTURN ACTIVATED DEAD BOLT		
36	INACTIVE AND BI-FOLD PANEL LOCK ASSEMBLY	ADAMS-RITE FLUSH BLOTS (KAWNEER NO. 50-079)		
37	PUSH/PULL	AS REQ'D		
38	DOOR CLOSER AT HEAD	AS REQ'D		
	WHEEL CASTER AND CASTING MOUNTING BRACKET	FAULTLESS NO. 527-2 CASTER WITH 2" DIAMETER		
		HARD RUBBER WHEEL OR EQUAL		
	FASTENERS			
	NO. 10 X 1 19/32" PHTF SCREW	4 PER SHEAR BLOCK		
43	NO. 10 X 9/16" FHTF SCREW	2 PER SHEAR BLOCK		
	NO. 6 X 3/8" FHMS	1/4" FROM ENDS & 9 1/2" MAX. O.C.		
45	1/4-20 X 1 9/32" FHM SCREW	2 PER ITEM #11		
46	NO. 12-24 X 13/32" SCREW	2 9/16" FROM ENDS & 5 1/8" MAX. O.C.		
47	NO. 6 X 11/16" FHTF SCREW	QUANTITY AS SPECIFIED BY KAWNEER		
48	NO. 10 X 1/2" FHTF SCREW	WITHIN 2" OF CORNERS AND 8" MAX. O.C.		
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