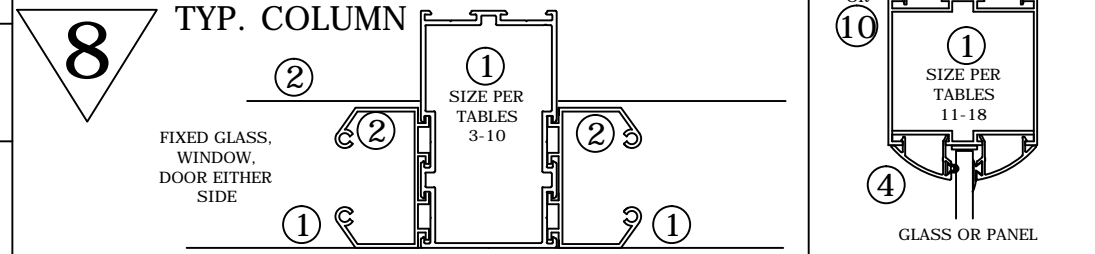
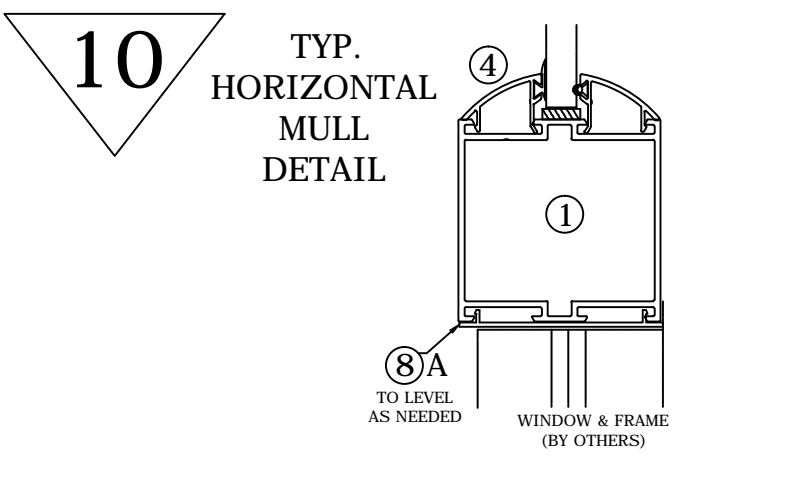
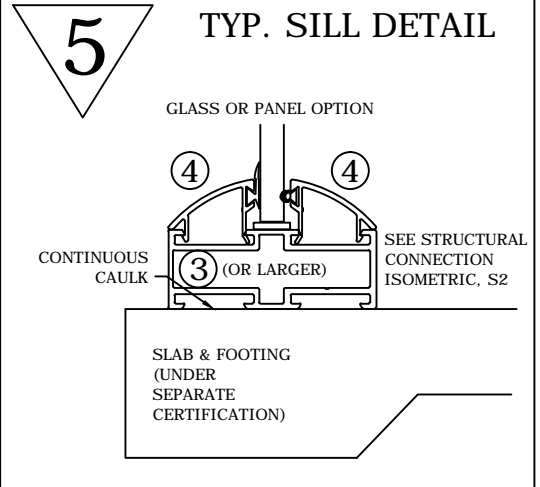
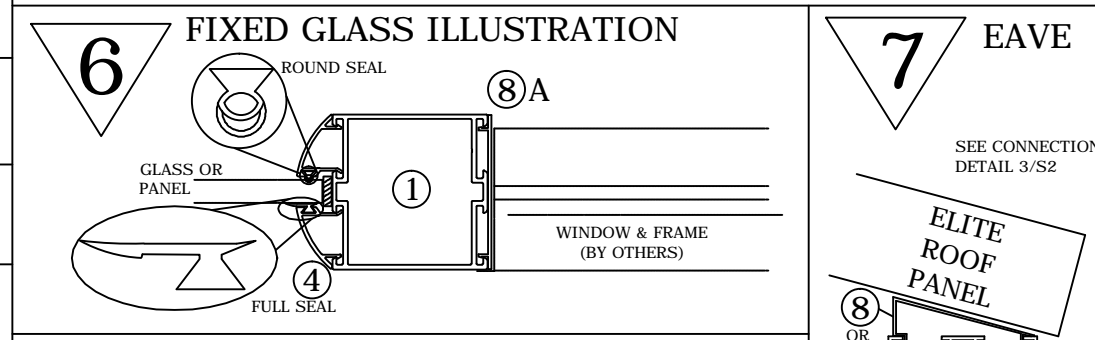
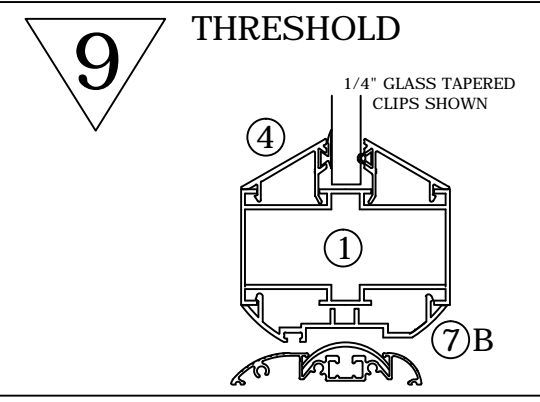
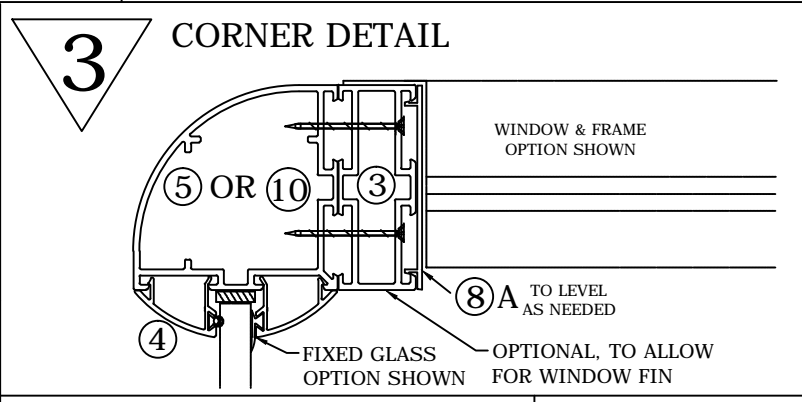
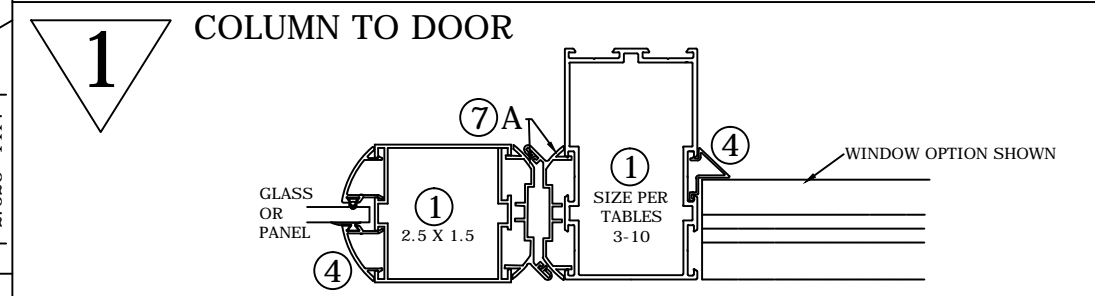
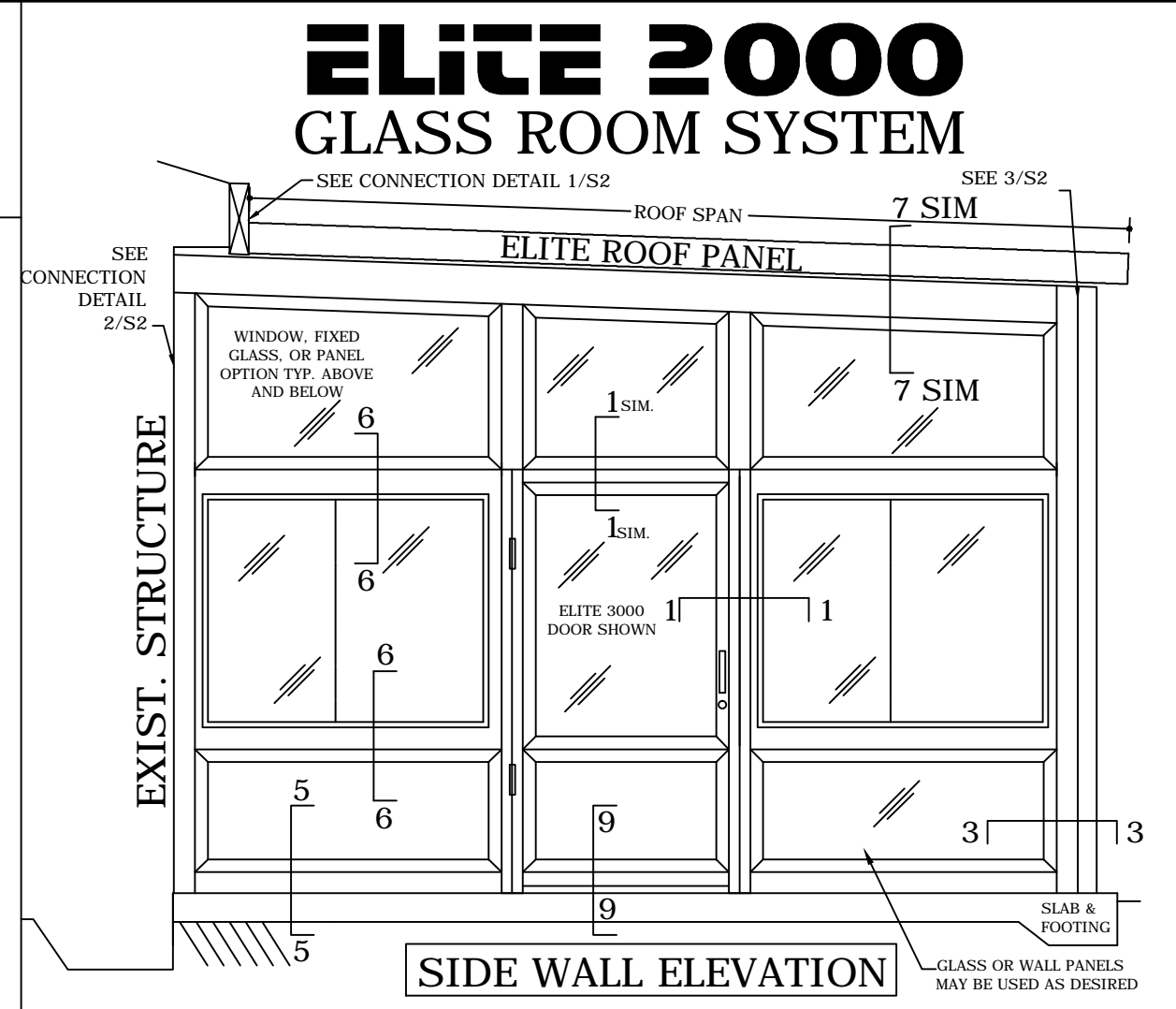
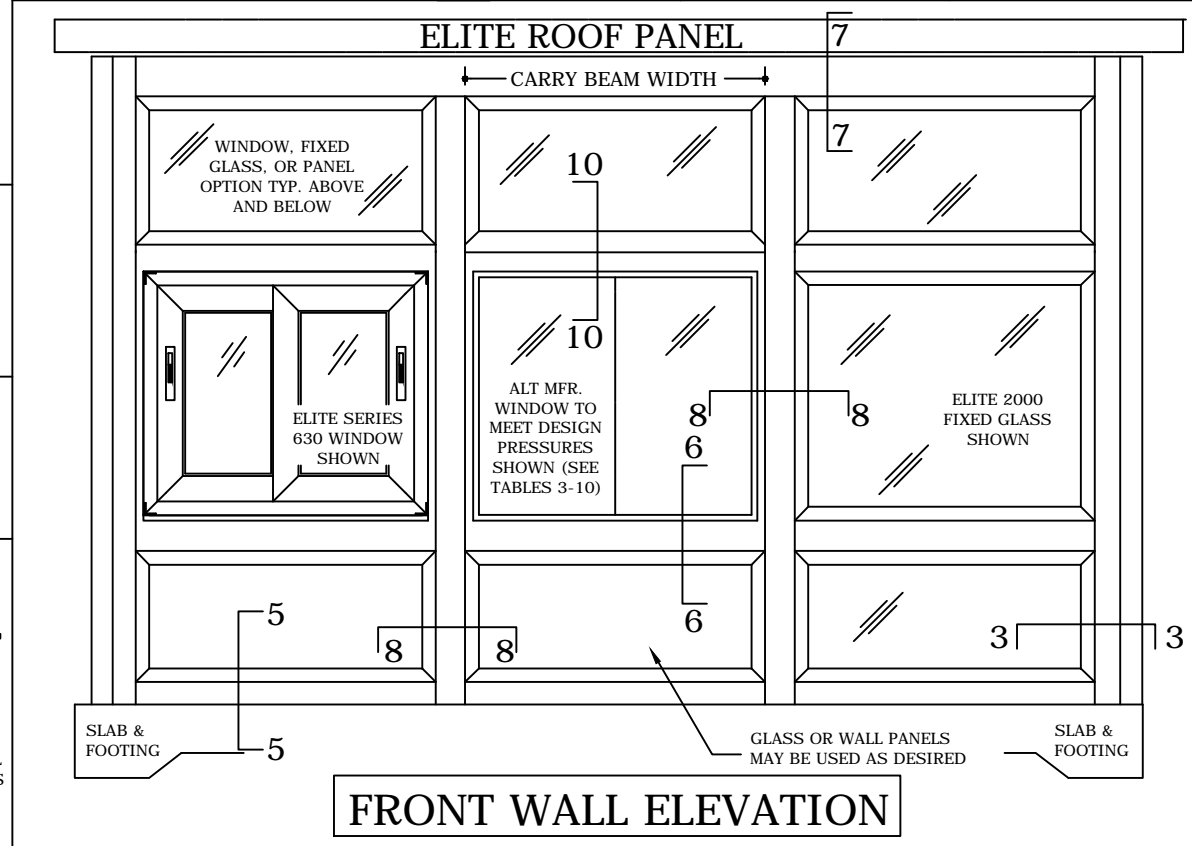
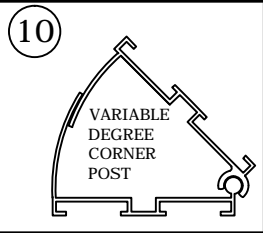
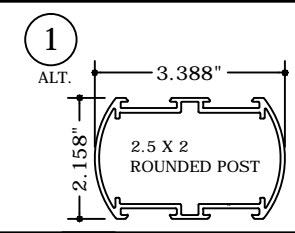
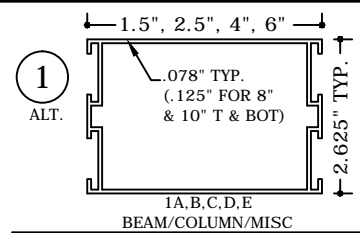
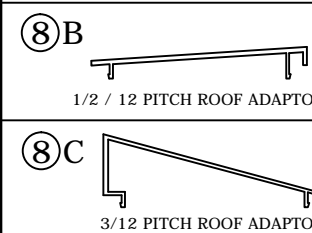
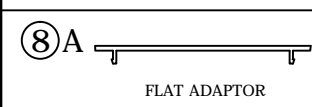
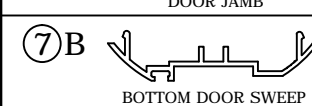
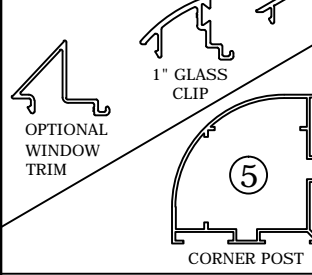
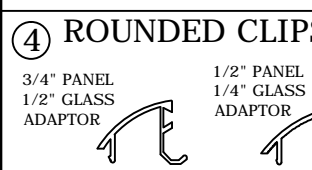
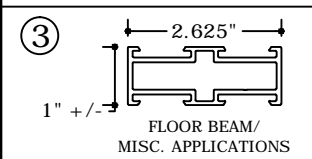
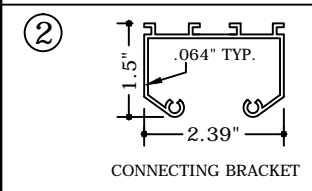
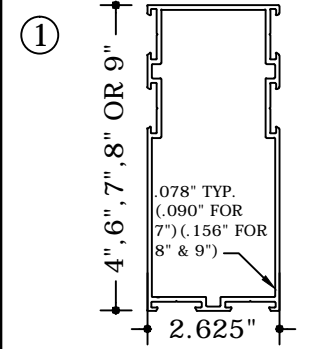


EXTRUSIONS



**ELITE 2000
GLASS ROOM SYSTEM**

C.T. "GUS" TARNOWSKI
PE0050662

VALID FOR (1) JOB(S) ONLY
VALID ONLY WITH RAISED ENGINEER SEAL

TARNOWSKI ENGINEERING
ENGINEERING BUSINESS CA 0009677
CIVIL & STRUCTURAL ENGINEERING
7360 N.W. 5th Street Phone (954) 727 - 2027
Plantation, FL 33317 Fax (954) 727 - 9644

ELITE ALUMINUM CORPORATION
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073

ELITE 2000 ROOF-GLASS ROOM MASTER PLAN SHEET

DRWN	CHKD	DATE
WTF <td>CT <td>02/26/09</td> </td>	CT <td>02/26/09</td>	02/26/09
WTF <td>CT <td>03/15/12</td> </td>	CT <td>03/15/12</td>	03/15/12

REMARKS

INIT ISSUE

CODE UPDATE

THIS DOCUMENT IS THE PROPERTY OF TARNOWSKI ENGINEERING, INC. WRITTEN CONSENT OF TARNOWSKI ENGINEERING, INC. - ALL TRANSACTIONS ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

COPYRIGHT TARNOWSKI ENGINEERING, INC.

00-EAC-1033

SCALE: N.T.S. 01

PAGE DESCRIPTION:

1 OF 4

C. TARNOWSKI, P.E.

ELITE 2000 GLASS WALL SYSTEM

DETAILS NOT SHOWN TO SCALE FOR CLARITY.

C.T. "GUS" TARNOWSKI
PE0050662

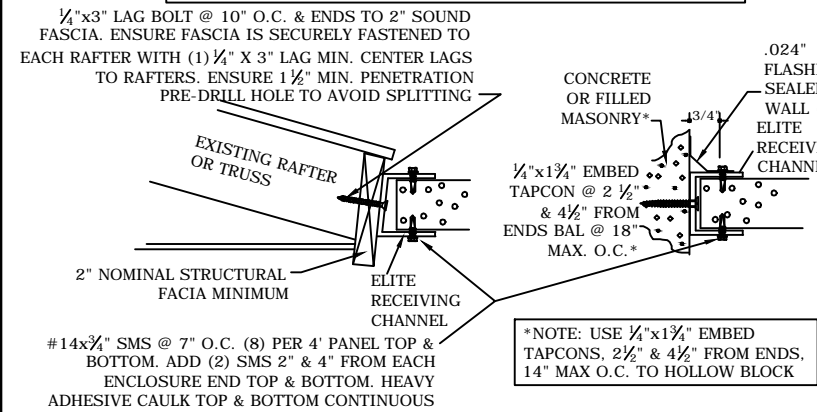


VALID FOR (1) JOB(S) ONLY
VALID ONLY WITH RAISED ENGINEER SEAL

1a,b
S2

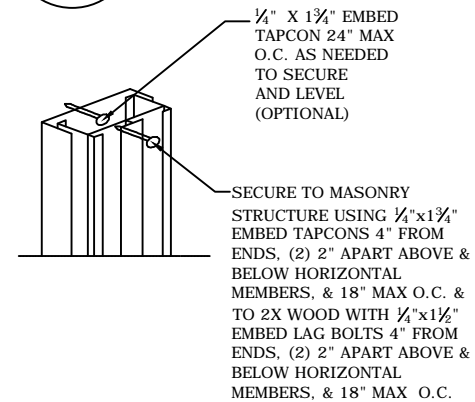
CONNECTION TO STRUCTURE - WOOD OR CONCRETE

**SEE GENERAL NOTE #14 FOR DESIGN PARAMETERS & TABLE 1 FOR ALTERNATE CONNECTIONS



2
S2

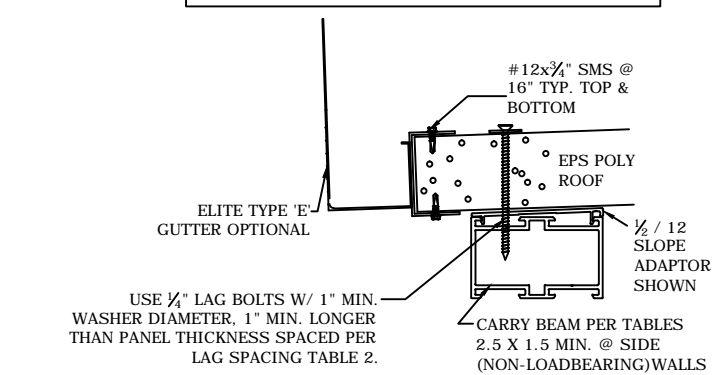
CONNECTION TO EXISTING WALL



3
S2

SECTION AT BEARING COLUMN

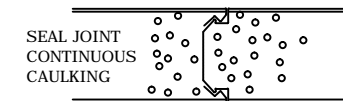
**SEE GENERAL NOTE #14 FOR DESIGN PARAMETERS & TABLE 2 FOR ALTERNATE CONNECTIONS



4
S2

ROOF PANEL CONNECTION FRONT ELEVATION

SEE FLORIDA STATEWIDE APPROVED ROOF PANEL SPAN TABLE FOR SIZE & THICKNESS



STRUCTURAL FASTENING DETAIL:

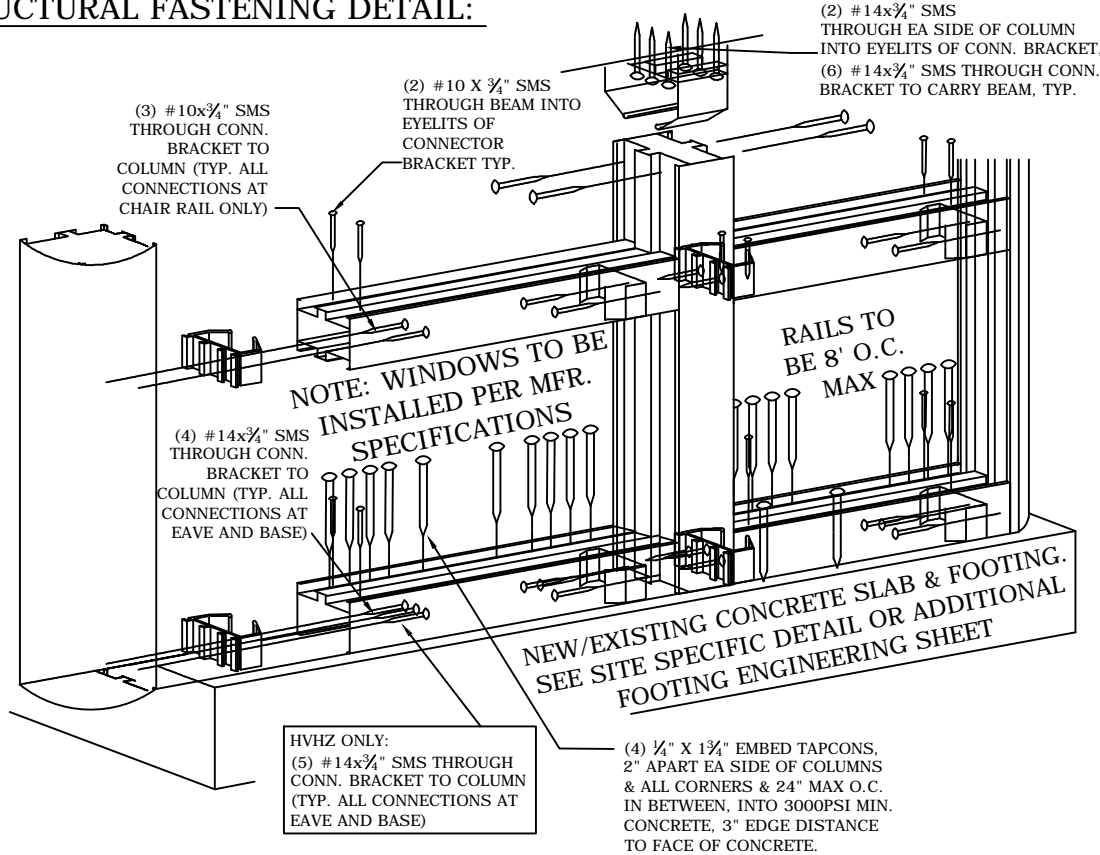


TABLE 1: ALTERNATE CONNECTION '1a' & '1b'

1a & 1b: CONNECTION TO STRUCTURE		VALID UP TO:		3' ROOF SPAN	4' ROOF SPAN
ANCHOR SIZE:	1/4"	#14	130B	130B	
ANCHOR TYPE:	LAG BOLTS	SMS	140B, 130C	140B, 130C	
			150B, 140C	150B, 140C	
MAX. SPACING:	12" O.C.	11" O.C. (5) / PANEL			

TABLE 2: LAG BOLT CONNECTION '3'

VEL & EXP	LAG SPACING TABLE		VEL & EXP	LAG SPACING TABLE	
	WL / RL	4", 0.024"		4", 0.032"	WL / RL
130 B	45 PSF	8" O.C.	10" O.C.	180C	59 PSF
140 B	45 PSF	(6) PER 4' PANEL	(5) PER 4' PANEL	50 PSF	5" O.C.
150 B	21 PSF	(6) PER 4' PANEL	(5) PER 4' PANEL	50 PSF	(10) PER 4' PANEL
160 B	21 PSF	(6) PER 4' PANEL	(5) PER 4' PANEL	50 PSF	(8) PER 4' PANEL
170 B	21 PSF	(6) PER 4' PANEL	(5) PER 4' PANEL	50 PSF	(8) PER 4' PANEL
130 C	52 PSF	7" O.C.	8" O.C.		
140 C	52 PSF	(7) PER 4' PANEL	(6) PER 4' PANEL		
150 C	24 PSF	(7) PER 4' PANEL	(6) PER 4' PANEL		
160 C	24 PSF	(7) PER 4' PANEL	(6) PER 4' PANEL		
170 C	24 PSF	(7) PER 4' PANEL	(6) PER 4' PANEL		

TABLE 1-2 NOTES:

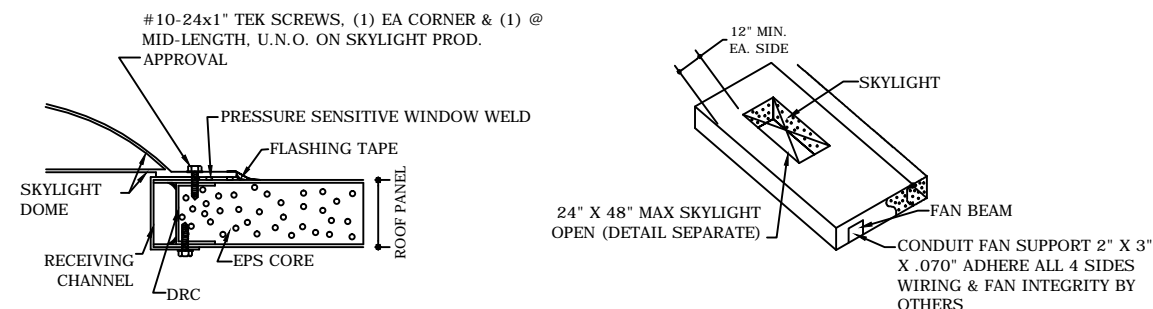
- 2005 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- ALTERNATE CONNECTIONS VALID FOR WIND VELOCITIES & EXPOSURES NOTED IN TABLES 1 & 2.
- MAXIMUM 4' ROOF SPANS PER ELITE FLORIDA APPROVED SPAN TABLES USED, MAXIMUM COLUMN SPACING = 6FT, MAX COLUMN HEIGHT = 10FT, MAX ROOF LIVE LOAD = 30PSF.
- ALL FASTENER AND MINIMUM EMBEDMENT REQUIREMENTS SHALL FOLLOW RESPECTIVE DETAILS AND MANUFACTURER SPECIFICATIONS.

GENERAL NOTES:

- THIS STRUCTURE HAS BEEN DESIGNED & COMPLIES WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE. STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA OR SPANS BEYOND STATED HEREIN MAY REQUIRE ADDITIONAL SITE SPECIFIC SEALED ENGINEERING. ALL LOADS BASED ON CATEGORY II, Kd=0.85, ENCLOSED (Gcpi= +/-0.18), 15' MRH PER FBC TABLE 2002.4(1), AND ASCE 7-10 AS APPLICABLE. ** THIS DOCUMENT SHALL NOT BE USED OR REPRODUCED WITHOUT THE ORIGINAL SIGNATURE & RAISED SEAL OF C.T. "GUS" TARNOWSKI, P.E. & MUST HAVE 'ELITE' IN RED ACROSS THE FACE OF THIS DRAWING. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
- THE EXISTING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED COMPOSITE ROOF-SCREEN WALL STRUCTURE AS DETERMINED BY OTHERS OR BY SPECIAL ENGINEERING BY UNDERSIGNED ENGINEER ATTACHED HERETO. NO WARRANTY IS CONTAINED HEREIN.
- COMPOSITE ROOF AND WALL MEMBERS SHALL BE CONSTRUCTED USING MINIMUM TYPE 3005-H25 ALUMINUM FACINGS, (1) OR (2) PCF ASTM C-578-83 CARPENTER BRAND EPS ADHERE TO ALUMINUM FACINGS WITH ASHLAND CHEMICAL 2020D ISO GRIP. FABRICATION TO BE BY ELITE PANEL PRODUCTS ONLY IN ACCORDANCE WITH APPROVED FABRICATION METHODS.
- ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY TYPE 6063-T6 ONLY.
- ALL FASTENERS TO BE 2024-T4 OR 7075-T73 ALLOY, NON-MAGNETIC STAINLESS STEEL, SAE GRADE 5 STEEL MIN. OR CADMIUM PLATED OR OTHER CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH SECTION 5, 2005 ALUMINUM DESIGN MANUAL, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- FASTENERS SHALL HAVE A HEAD AND/OR BE PROVIDED WITH 1/2" DIAMETER WASHER MINIMUM UNLESS NOTED OTHERWISE.
- ANY FASTENER STRIPPED OR NOT ADEQUATELY HOLDING SHALL BE REPLACED.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
- ALL TAPCONS MUST BE ITW CARBON STEEL TAPCONS OR EQUIVALENT W/ 1 3/4" EMBED, 3" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3000PSI MIN. CONCRETE.
- IF REQUIRED BY CODE, THE EPS CORE SHALL BE SEPARATED FROM THE BUILDING INTERIOR BY A 15 MINUTE THERMAL BARRIER OF APPROVED 5/8 INCH GYPSUM WALLBOARD OR EQUAL. ELITE CAN PROVIDE ULI 715 (INTERIOR) OR CLASS B(EXTERIOR) PANEL TO SATISFY CODE PROVIDED ALUM. & EPS MEET SPECS ABOVE.
- WINDOWS AND DOORS SHALL BE BY OTHERS IN ACCORDANCE WITH REQUIRED WIND PRESSURES STATED IN TABLES & SHALL MEET ALL PRODUCT APPROVAL REQUIREMENTS. THIS ENCLOSURE IS NOT IMPACT RESISTANT. SHUTTERS SHALL NOT BE INSTALLED TO THIS ENCLOSURE. WHEN REQUIRED BY CODE, AN APPROVED IMPACT PROTECTION SYSTEM SHALL BE INSTALLED AT THE HOST STRUCTURE. HOST STRUCTURE DOORS AND WINDOWS ARE NOT TO BE REMOVED EXITING TO THIS ENCLOSURE. THIS ENCLOSURE IS NON-HABITABLE SPACE.
- ALUMINUM MEMBERS IN CONTACT WITH CONCRETE & WOOD SHALL BE PROTECTED BY 'KOPPERS BITUMINOUS PAINT' OR MFR. EQUAL IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
- MAXIMUM AVG. COLUMN SPACING = 6FT, MAX COLUMN HEIGHT = 10FT, MAX LIVE LOAD = 30PSF, MAX WIND VELOCITY & EXPOSURE = 180MPH, 'C', CONNECTIONS VALID UP TO MAX 4IN. ROOF SPAN PER ELITE ROOF FLORIDA STATEWIDE APPROVED SPAN TABLE. SITE SPECIFIC ENGINEERING REQUIRED FOR ANY DETAIL WHICH DEVIATES FROM THIS PLAN OR BEYOND THESE LIMITATIONS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

ROOF PANEL ACCESSORIES:

NOTE: CERTIFICATION OF SKYLIGHT BY SEPARATE CERTIFICATION. DETAIL ILLUSTRATES TYPICAL CONNECTION METHODS ONLY. REFER TO SKYLIGHT DETAILS FOR FURTHER INFORMATION WHICH GOVERNS.



ENGINEERING BUSINESS CA 00009677
TARNOWSKI ENGINEERING
CIVIL & STRUCTURAL ENGINEERING
7360 N.W. 5th Street
Plantation, FL 33317
Phone (954) 727 - 2027
Fax (954) 727 - 9644

ELITE ALUMINUM CORPORATION
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073
Building Innovation
ELITE
Panel Products
ELITE 2000 ROOF-GLASS ROOM MASTER PLAN SHEET

DRWN	CHKD	DATE
WTF	CT	02/26/09
WTF	CT	03/15/12

REMARKS
INITIALS
DATE
CODE
UPDATE

THIS DOCUMENT IS THE PROPERTY OF TARNOWSKI ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE, ALTERATION, REPRODUCTION, OR DISTRIBUTION OF THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF TARNOWSKI ENGINEERING, INC. IS STRICTLY PROHIBITED. ANY SUCH VIOLATION SHALL BE CONSIDERED A BREACH OF CONTRACT AND WILL BE PENALIZED AT THE DISCRETION OF TARNOWSKI ENGINEERING, INC. ALL ALTERATIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

COPYRIGHT TARNOWSKI ENGINEERING, INC.
00-EAC-1033
SCALE: N.T.S. 01
PAGE DESCRIPTION:

COLUMN ALLOWABLE HEIGHT TABLES:

6063-T6

C.T. "GUS" TARNOWSKI
PE0050662



VALID FOR (1) JOB(S) ONLY
VALID ONLY WITH RAISED ENGINEER SEAL

ENGINEERING BUSINESS CA 00009677
TARNOWSKI ENGINEERING
CIVIL & STRUCTURAL ENGINEERING
7360 N.W. 5th Street Phone (954) 727 - 2027
Plantation, FL 33317 Fax (954) 727 - 9644

TABLE 3: 130MPH, EXPOSURE 'B'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 21'-1"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	6'-10"	6'-8"	6'-5"	6'-3"	6'-0"	5'-9"	5'-6"
2.5x2.5	7'-9"	7'-6"	7'-3"	7'-0"	6'-8"	6'-6"	6'-2"
2.5x4 POOL	10'-0"	10'-0"	9'-6"	9'-3"	8'-7"	8'-4"	8'-1"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-20.7 PSF (FOR USE WITH WINDOWS)

TABLE 4: 130MPH, EXP 'C', 140MPH, EXP 'B'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 20'-5"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	6'-8"	6'-5"	6'-0"	5'-9"	5'-6"	5'-3"	5'-1"
2.5x2.5	7'-6"	6'-10"	6'-8"	6'-6"	6'-3"	6'-0"	5'-9"
2.5x4 POOL	10'-0"	9'-8"	8'-9"	8'-6"	8'-2"	8'-0"	7'-9"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-24.7 PSF (FOR USE WITH WINDOWS)

TABLE 5: 140MPH, EXP 'C', 150MPH, EXP 'B'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 19'-4"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	6'-2"	5'-10"	5'-8"	5'-6"	5'-1"	N/A	N/A
2.5x2.5	7'-0"	6'-7"	6'-4"	6'-0"	5'-9"	5'-6"	5'-4"
2.5x4 POOL	9'-6"	8'-8"	8'-3"	8'-0"	7'-7"	7'-4"	7'-2"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-30.2 PSF (FOR USE WITH WINDOWS)

TABLE 6: 150MPH, EXP 'C', 160MPH, EXP 'B'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 18'-3"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	6'-0"	5'-8"	5'-6"	5'-0"	N/A	N/A	N/A
2.5x2.5	6'-8"	6'-2"	6'-0"	5'-9"	5'-7"	5'-5"	5'-0"
2.5x4 POOL	8'-8"	8'-3"	7'-10"	7'-7"	7'-3"	7'-0"	6'-9"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-8"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-36.4 PSF (FOR USE WITH WINDOWS)

TABLE 7: 160MPH, EXP 'C', 170MPH, EXP 'B'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 17'-4"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	5'-6"	5'-3"	5'-0"	N/A	N/A	N/A	N/A
2.5x2.5	6'-3"	6'-0"	5'-9"	5'-9"	5'-1"	N/A	N/A
2.5x4 POOL	8'-3"	7'-9"	7'-6"	7'-2"	6'-10"	6'-7"	6'-1"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-6"	9'-0"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-42.1 PSF (FOR USE WITH WINDOWS)

TABLE 8: 170MPH, EXP 'C'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 17'-5"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	5'-6"	5'-0"	N/A	N/A	N/A	N/A	N/A
2.5x2.5	6'-0"	5'-6"	5'-3"	5'-0"	N/A	N/A	N/A
2.5x4 POOL	7'-9"	7'-4"	7'-0"	6'-8"	6'-3"	6'-0"	5'-7"
2.5x6 POOL	10'-0"	10'-0"	10'-0"	9'-9"	9'-1"	8'-7"	8'-1"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-49.3 PSF (FOR USE WITH WINDOWS)

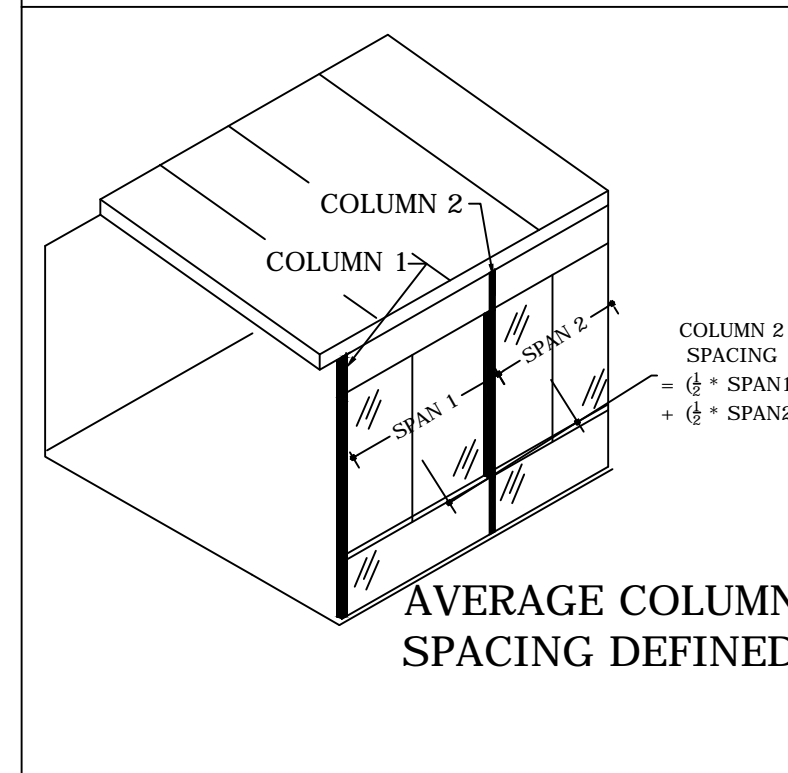
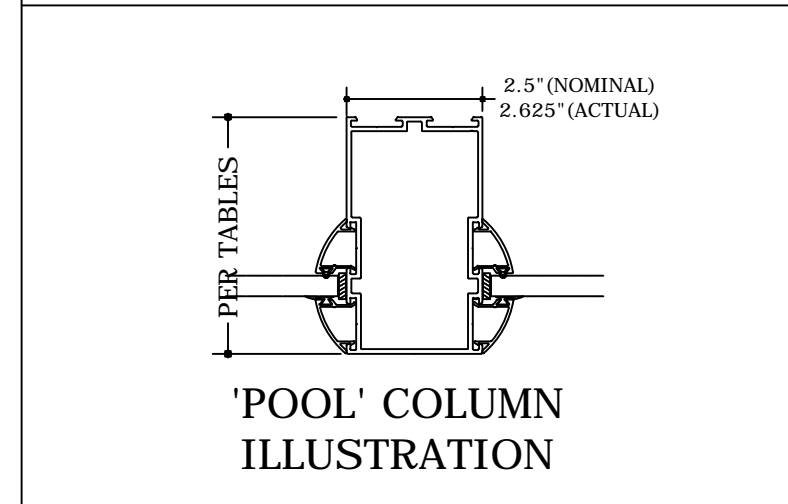
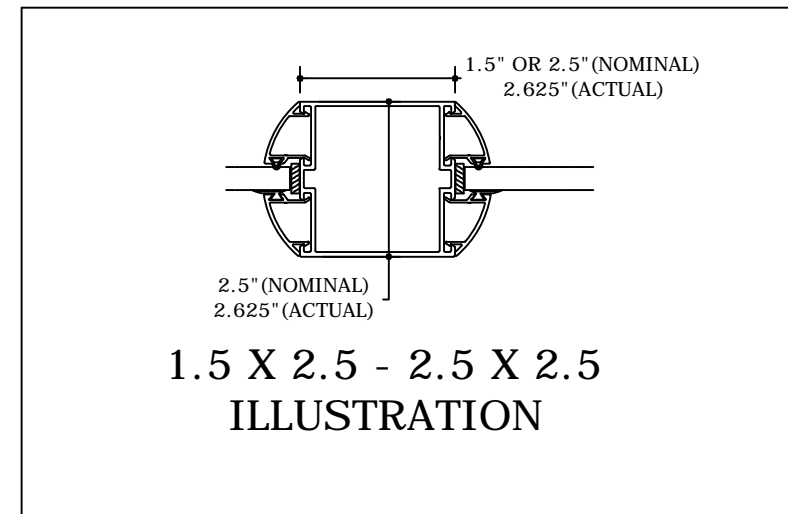
TABLE 9: 180MPH, EXP 'C'

GLASS WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 12'-9"					
COLUMN	COLUMN SPACING						
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
2.5x1.5	5'-0"	N/A	N/A	N/A	N/A	N/A	N/A
2.5x2.5	5'-9"	5'-3"	5'-0"	N/A	N/A	N/A	N/A
2.5x4 POOL	7'-7"	7'-1"	6'-7"	6'-1"	5'-7"	5'-3"	5'-0"
2.5x6 POOL	10'-0"	10'-0"	9'-6"	8'-9"	8'-2"	7'-7"	7'-2"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	9'-6"	8'-10"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

DESIGN PRESSURE: +/-57.1 PSF (FOR USE WITH WINDOWS)

TABLES 3-9 NOTES:

- 2005 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- USE APPROPRIATE TABLE REQUIRED BY THE FLORIDA BUILDING CODE & GOVERNING LOCAL BUILDING CODES. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
- DEFLECTION LIMIT = L/180.
- MAXIMUM SOLID WALL COLUMN HEIGHTS & REQUIRED WORST CASE DESIGN PRESSURES NOTED IN TABLES 3-10.
- LOADING CRITERIA CONSIDERED IS THE GOVERNING CASE OF THE FOLLOWING SCENARIOS: 2PSF ROOF DEADLOAD & 30PSF MINIMUM SOLID ROOF LIVE LOAD, 2PSF ROOF DEADLOAD & WALL WINDLOAD (PER FBC TABLE 2002.4), OR COMPONENTS & CLADDING (CATEGORY II, MRH=15FT, ZONE 4 & 5 WEIGHTED AVERAGE) ON THE WALL ONLY.
- COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING).
- VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- ALL WIND SPEEDS SHOWN ARE ULTIMATE DESIGN WIND SPEEDS (Vult)



ELITE ALUMINUM CORPORATION
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073

ELITE
Building Innovation Panel Products

ELITE 2000 ROOF-GLASS ROOM MASTER PLAN SHEET

DRWN	CHKD	DATE
WTF	CT	02/26/09
WTF	CT	03/15/12

REMARKS
INIT ISSUE
CODE UPDATE

THIS DOCUMENT IS THE PROPERTY OF TARNOWSKI ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND AT THE LOCATION SPECIFIED. ANY REUSE, REPRODUCTION, OR ALTERATION OF THIS DOCUMENT WITHOUT THE WRITTEN CONSENT OF TARNOWSKI ENGINEERING, INC. IS STRICTLY PROHIBITED. VIOLATIONS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

COPYRIGHT TARNOWSKI ENGINEERING, INC.
00-EAC-1033
SCALE: N.T.S. **01**
PAGE DESCRIPTION:

END WALL CARRY BEAM CLEAR SPAN TABLES:

6063-T6

C.T. "GUS" TARNOWSKI
PE0050662



VALID FOR (1) JOB(S) ONLY
VALID ONLY WITH RAISED ENGINEER SEAL

ENGINEERING BUSINESS CA 00009677
TARNOWSKI ENGINEERING
CIVIL & STRUCTURAL ENGINEERING
7360 N.W. 5th Street Phone (954) 727 - 2027
Plantation, FL 33317 Fax (954) 727 - 9644

TABLE 11: 130MPH, EXPOSURE 'B'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	22'-0"
2.5x1.5	4'-6"	4'-4"	4'-4"	4'-3"	4'-3"	4'-2"	4'-1"
2.5x2.5	6'-0"	5'-10"	5'-8"	5'-7"	5'-6"	5'-4"	5'-2"
2.5x4	7'-4"	7'-3"	7'-2"	7'-1"	7'-0"	6'-10"	6'-8"
2.5x6	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2.5x8	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

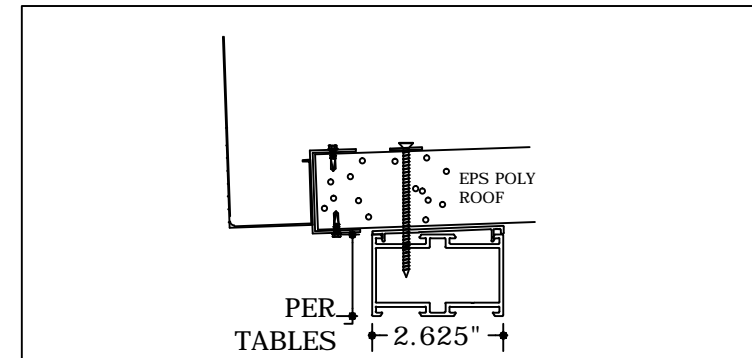
DESIGN PRESSURE: +/-20.7 PSF (FOR USE WITH WINDOWS)

TABLE 12: 130MPH, EXP 'C', 140MPH, EXP 'B'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	22'-0"
2.5x1.5	4'-4"	4'-3"	4'-2"	4'-1"	4'-0"	3'-10"	3'-8"
2.5x2.5	5'-8"	5'-6"	5'-4"	5'-2"	5'-1"	5'-0"	4'-9"
2.5x4	7'-1"	7'-0"	6'-9"	6'-8"	6'-7"	6'-6"	6'-3"
2.5x6	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"
2.5x8	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

DESIGN PRESSURE: +/-24.7 PSF (FOR USE WITH WINDOWS)



CARRY BEAM DETAIL

TABLE 13: 140MPH, EXP 'C', 150MPH, EXP 'B'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
2.5x1.5	4'-3"	4'-2"	4'-1"	3'-10"	3'-9"	3'-8"	3'-7"
2.5x2.5	5'-7"	5'-4"	5'-3"	5'-1"	4'-10"	4'-9"	4'-8"
2.5x4	7'-1"	6'-10"	6'-8"	6'-6"	6'-4"	6'-2"	6'-0"
2.5x6	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"	7'-8"
2.5x8	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

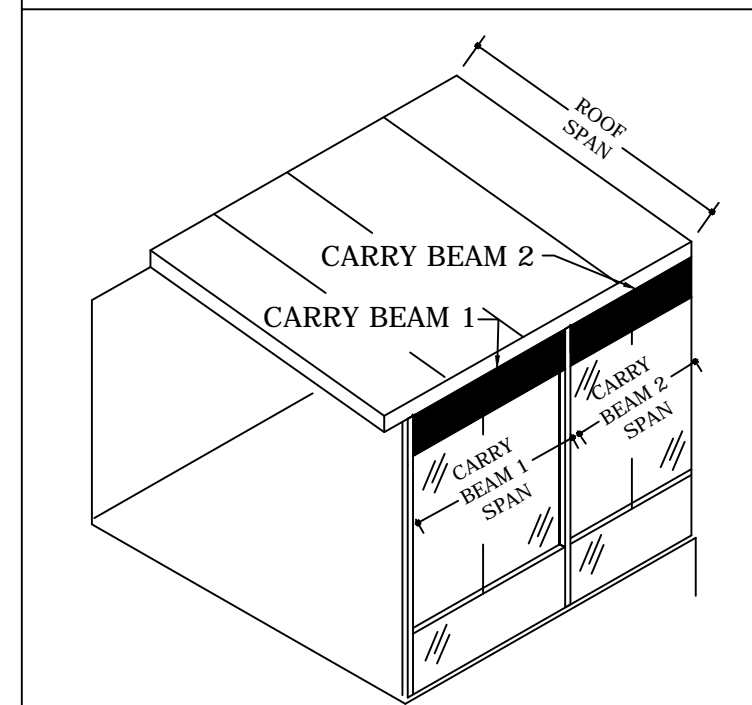
DESIGN PRESSURE: +/-30.2 PSF (FOR USE WITH WINDOWS)

TABLE 14: 150MPH, EXP 'C', 160MPH, EXP 'B'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	19'-0"
2.5x1.5	4'-0"	3'-10"	3'-8"	3'-7"	3'-6"	3'-4"	3'-3"
2.5x2.5	5'-2"	5'-0"	4'-9"	4'-8"	4'-6"	4'-4"	4'-3"
2.5x4	6'-6"	6'-3"	6'-1"	6'-0"	5'-9"	5'-8"	5'-7"
2.5x6	8'-0"	7'-10"	7'-8"	7'-6"	7'-4"	7'-2"	7'-1"
2.5x8	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

DESIGN PRESSURE: +/-36.4 PSF (FOR USE WITH WINDOWS)



CARRY BEAM SPAN DEFINED

TABLE 15: 160MPH, EXP 'C', 170MPH, EXP 'B'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	17'-0"	18'-0"
2.5x1.5	3'-8"	3'-7"	3'-4"	3'-3"	3'-2"	3'-2"	3'-1"
2.5x2.5	4'-9"	4'-7"	4'-4"	4'-3"	4'-2"	4'-1"	4'-1"
2.5x4	6'-0"	5'-9"	5'-8"	5'-6"	5'-4"	5'-3"	5'-2"
2.5x6	7'-6"	7'-3"	7'-1"	7'-0"	6'-9"	6'-8"	6'-8"
2.5x8	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	7'-10"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

DESIGN PRESSURE: +/-42.1 PSF (FOR USE WITH WINDOWS)

TABLE 16: 170MPH, EXP 'C'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	17'-0"	18'-0"
2.5x1.5	3'-6"	3'-3"	3'-2"	3'-1"	3'-0"	3'-0"	N/A
2.5x2.5	4'-4"	4'-3"	4'-1"	4'-0"	3'-10"	3'-9"	3'-9"
2.5x4	5'-7"	5'-4"	5'-3"	5'-1"	5'-0"	4'-10"	4'-10"
2.5x6	7'-0"	6'-9"	6'-8"	6'-6"	6'-3"	6'-3"	6'-2"
2.5x8	8'-0"	8'-0"	7'-9"	7'-8"	7'-6"	7'-4"	7'-3"
2.5x10	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

DESIGN PRESSURE: +/-49.3 PSF (FOR USE WITH WINDOWS)

TABLE 17: 180MPH, EXP 'C'

GLASS WALL CARRY BEAM SPAN TABLE:

BEAM	ROOF CLEAR SPAN						
	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"
2.5x1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.5x2.5	3'-7"	3'-7"	3'-6"	3'-4"	3'-3"	3'-2"	3'-2"
2.5x4	4'-8"	4'-7"	4'-6"	4'-4"	4'-3"	4'-2"	4'-1"
2.5x6	5'-10"	5'-9"	5'-8"	5'-7"	5'-6"	5'-4"	5'-3"
2.5x8	7'-0"	6'-10"	6'-9"	6'-8"	6'-7"	6'-6"	6'-4"
2.5x10	8'-0"	7'-10"	7'-9"	7'-7"	7'-6"	7'-4"	7'-3"

DESIGN PRESSURE: +/-57.1 PSF (FOR USE WITH WINDOWS)

TABLE 11-17 NOTES:

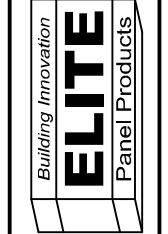
- 2005 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- USE APPROPRIATE TABLE REQUIRED BY THE FLORIDA BUILDING CODE & GOVERNING LOCAL BUILDING CODES. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
- DEFLECTION LIMIT = L/180.
- MAXIMUM SOLID WALL CARRY BEAM SPANS & REQUIRED WORST CASE DESIGN PRESSURES NOTED IN TABLES 11-18.
- LOADING CRITERIA CONSIDERED IS THE GOVERNING CASE OF THE FOLLOWING SCENARIOS: 2PSF ROOF DEADLOAD & 30PSF MINIMUM SOLID ROOF LIVE LOAD OR 2PSF ROOF DEADLOAD & ROOF WINDLOAD (PER MWFRS).
- CLEAR ROOF SPAN IS THE SPAN FROM THE HOST STRUCTURE TO THE FRONT CARRY BEAM.
- 12" MAXIMUM OVERHANG ON FRONT AND SIDES OF ENCLOSURE.
- ALL WIND SPEEDS SHOWN ARE ULTIMATE DESIGN WIND SPEEDS (Vult)

TABLE 18: CHAIR RAIL SPANS

CHAIR RAIL SPAN TABLE

VELOCITY & EXPOSURES	MULLION MEMBER	7' WALL HEIGHT	8' WALL HEIGHT	9' WALL HEIGHT	10' WALL HEIGHT
130 'B' & 'C' 140 'B'	2.5x1.5	5'-4"	5'-0"	4'-10"	4'-9"
	2.5x2.5	6'-0"	6'-0"	6'-0"	6'-0"
	2.5x4 POOL	6'-0"	6'-0"	6'-0"	6'-0"
	2.5x6 POOL	6'-0"	6'-0"	6'-0"	6'-0"
140 'C' 150 'B' & 'C' 160 'B' & 'C'	2.5x1.5	4'-6"	4'-4"	4'-1"	3'-10"
	2.5x2.5	6'-0"	6'-0"	6'-0"	5'-10"
	2.5x4 POOL	6'-0"	6'-0"	6'-0"	6'-0"
170 'B'	2.5x6 POOL	6'-0"	6'-0"	6'-0"	6'-0"
	2.5x1.5	4'-2"	3'-10"	3'-8"	3'-6"
170 'C' 180 'C'	2.5x2.5	6'-0"	5'-9"	5'-6"	5'-3"
	2.5x4 POOL	6'-0"	6'-0"	6'-0"	6'-0"
	2.5x6 POOL	6'-0"	6'-0"	6'-0"	6'-0"

ELITE ALUMINUM CORPORATION
4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073



ELITE 2000 ROOF-GLASS ROOM MASTER PLAN SHEET

DRWN	CHKD	DATE
WTF <td>CT</td> <td>02/26/09</td>	CT	02/26/09
WTF <td>CH</td> <td>03/15/12</td>	CH	03/15/12

REMARKS
INIT ISSUE
CODE UPDATE

THIS DOCUMENT IS THE PROPERTY OF TARNOWSKI ENGINEERING, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE, REPRODUCTION, OR ALTERATION WITHOUT THE WRITTEN CONSENT OF TARNOWSKI ENGINEERING, INC., IS STRICTLY PROHIBITED. ANY SUCH VIOLATION WILL BE CONSIDERED A BREACH OF CONTRACT AND WILL BE SUBJECT TO LEGAL ACTION. ALL ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.

COPYRIGHT TARNOWSKI ENGINEERING, INC.

00-EAC-1033

SCALE: N.T.S. **01**

PAGE DESCRIPTION: