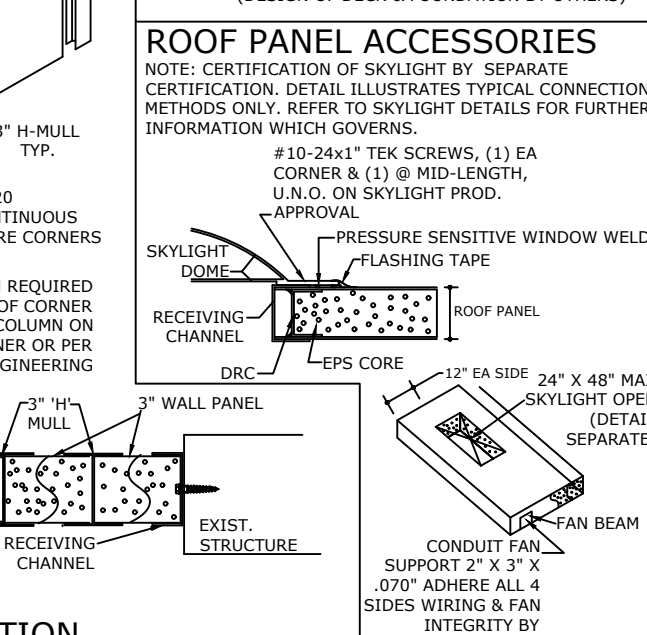
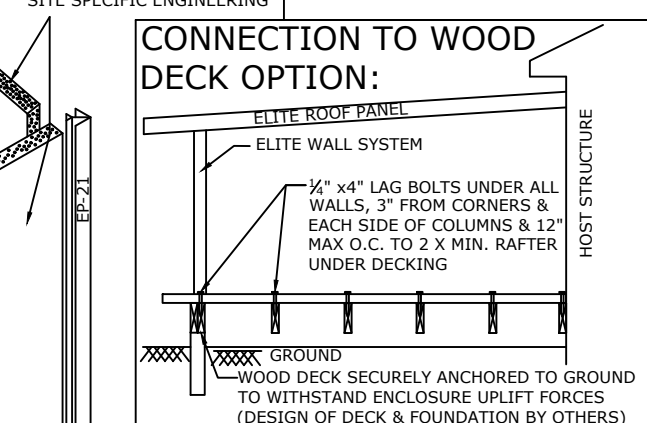
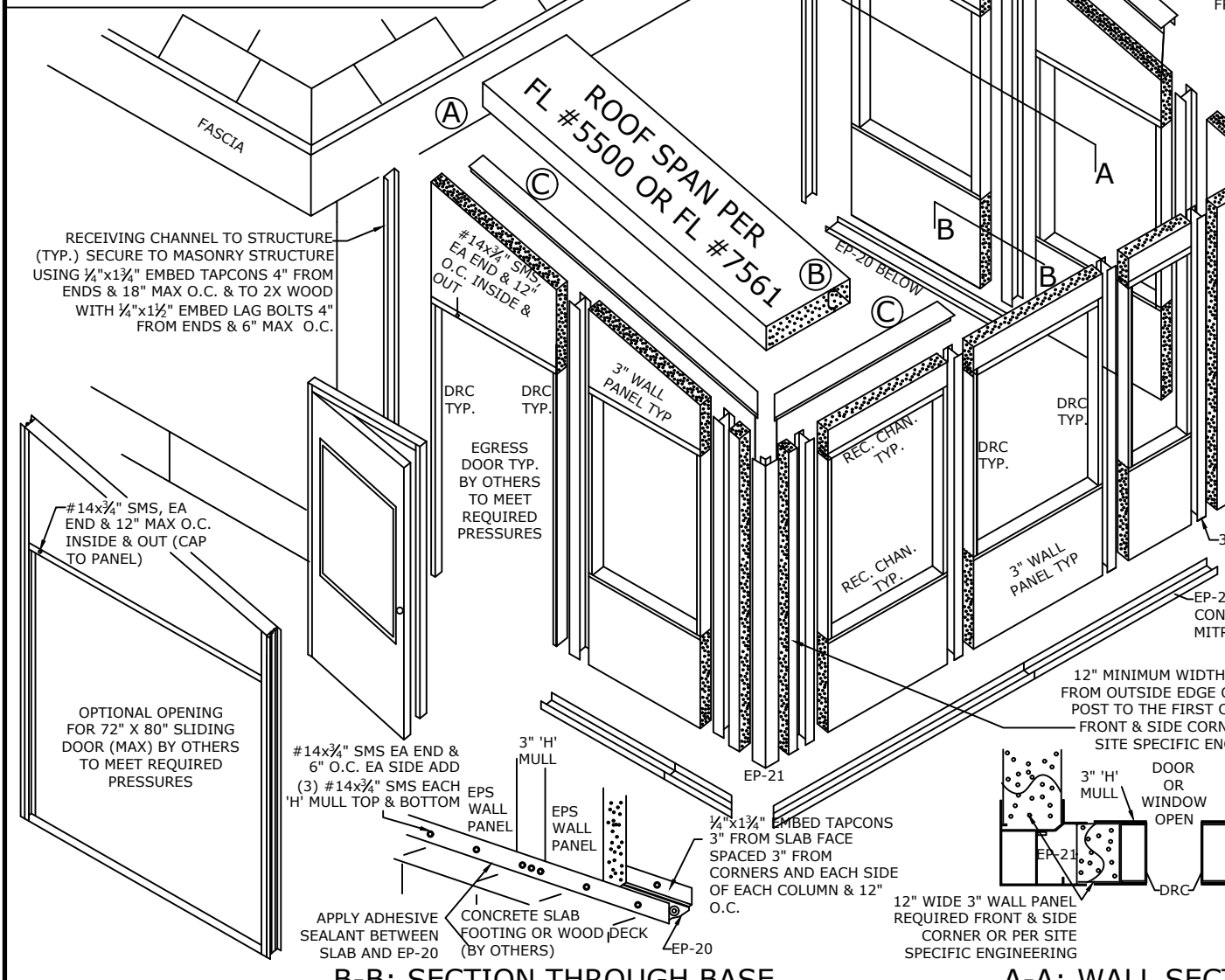
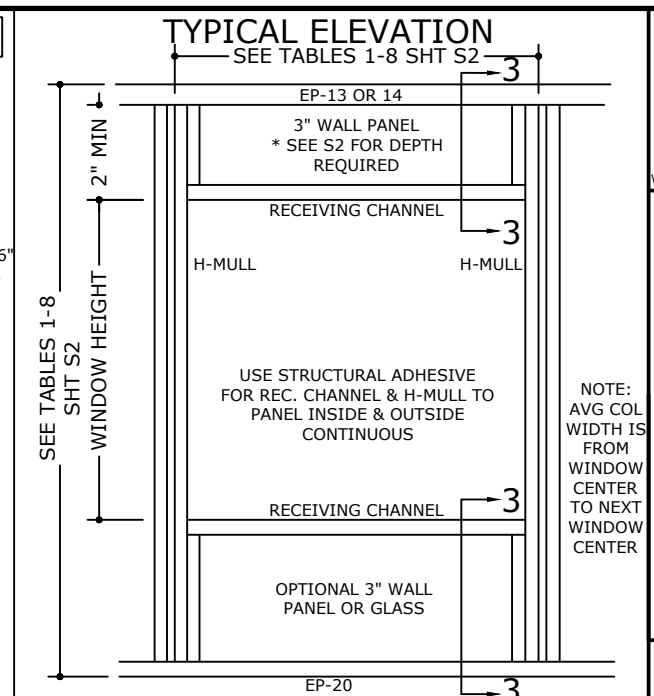
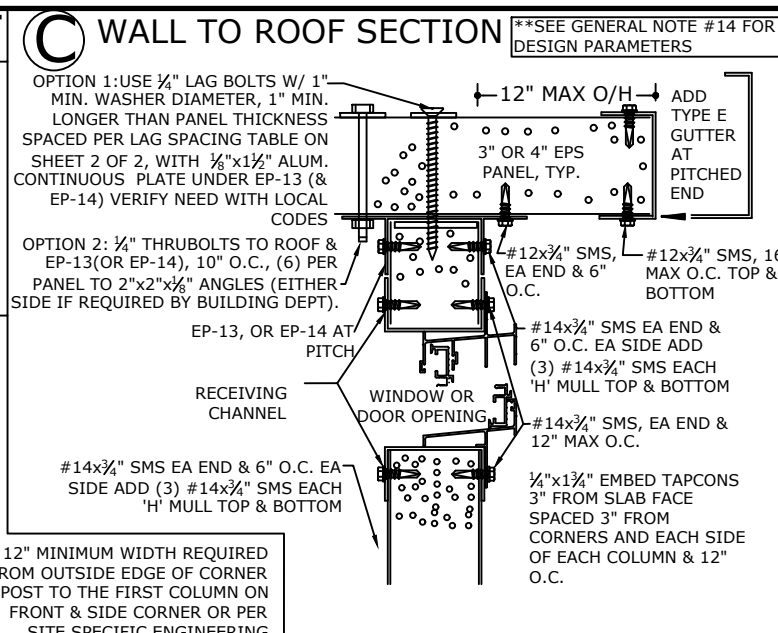
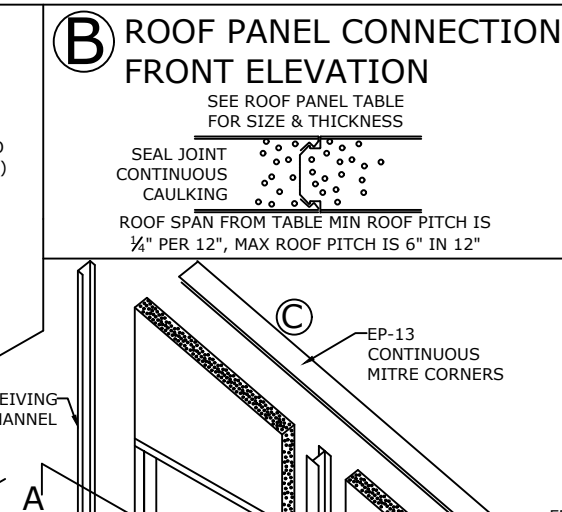
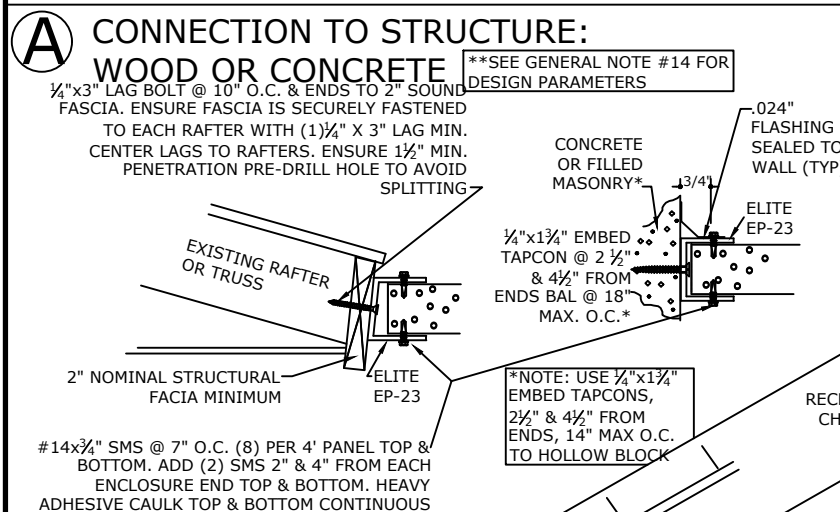
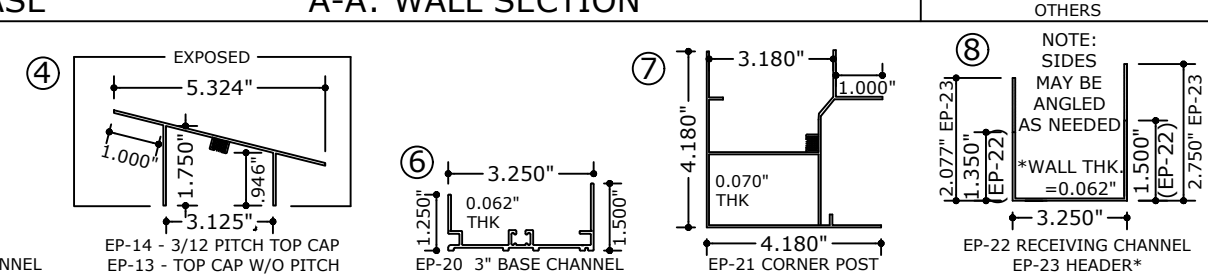
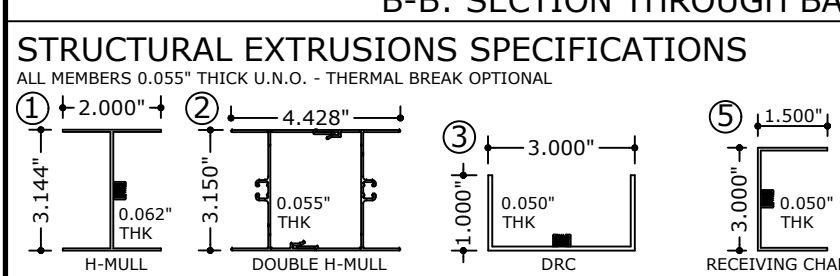


# ELITE ROOF 3" ADD-A-ROOM MASTER PLAN SHEET



### GENERAL NOTES:

- THIS STRUCTURE HAS BEEN DESIGNED & COMPLIES WITH THE REQUIREMENTS OF THE 2014 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, PARTIALLY ENCLOSED (Gcpi=+/-0.55), 15' MRH PER FBC TABLE 2002.4 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 A RED 'ELITE' STAMP ON EACH PAGE. 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 1/2" DIA. HEAD 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 1/4" EMBED, 3" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 2500PSI 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 UL1715 (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 UNCONDITIONED SPACE AND CLASSIFIED AS A CATEGORY II SUNROOM PER AAMA/NPEA/NSA 2100-02.
- 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 = 5FT, MAX COLUMN HEIGHT = 9FT, MIN LIVE LOAD = 30PSF, MAX WIND VELOCITY & EXPOSURE = 180MPH, 'D', CONNECTIONS VALID UP TO MAX 6IN. 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.



C.T. "GUS" TARNOWSKI  
# PE0050662

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ENGINEERING BUSINESS CA 00009677

**TARNOWSKI ENGINEERING**

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

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

Building Innovation  
**ELITE**  
Panel Products

ELITE ROOF 3" ADD-A-ROOM MASTER PLAN SHEET

DRWN	CHKD	DATE
WTF <td>CT <td>07/01/15</td> </td>	CT <td>07/01/15</td>	07/01/15

REMARKS  
FBC2014 ISSUE

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PAGE DESCRIPTION:

1 OF 2

C. TARNOWSKI, P.E.

# COLUMN ALLOWABLE HEIGHT TABLES:

## TABLE 1: 130MPH, EXPOSURE 'B'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 21'-1"						DESIGN PRESSURE: +/-22.10 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	8'-9"	8'-5"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	

## TABLE 3: 140MPH, EXP 'C', 150MPH, EXP 'B'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 19'-4"						DESIGN PRESSURE: +/-31.00 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	8'-6"	8'-1"	7'-8"	7'-5"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	8'-7"	

## TABLE 5: 160MPH, EXP 'C', 170MPH EXP 'B'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 17'-4"						DESIGN PRESSURE: +/-40.60 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	9'-0"	8'-8"	8'-1"	7'-7"	7'-2"	6'-11"	6'-7"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	8'-10"	8'-5"	8'-0"	7'-8"	

## TABLE 7: 180MPH, EXP 'D' [HVHZ]

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 12'-0"						DESIGN PRESSURE: +/-62.30 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	7'-8"	7'-2"	6'-8"	6'-3"	5'-9"	5'-5"	5'-2"	
Double H-Mull + DRCs + Window Jambs	8'-9"	8'-2"	7'-8"	7'-3"	6'-10"	6'-6"	6'-2"	

## TABLE 2: 130MPH, EXP 'C', 140MPH, EXP 'B'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 20'-5"						DESIGN PRESSURE: +/-26.70 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	8'-7"	8'-3"	7'-11"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	9'-0"	

## TABLE 4: 150MPH, EXP 'C', 160MPH, EXP 'B'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 18'-3"						DESIGN PRESSURE: +/-35.70 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	8'-6"	8'-0"	7'-7"	7'-3"	7'-0"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	9'-0"	9'-0"	8'-10"	8'-5"	8'-2"	

## TABLE 6: 170MPH, EXP 'C'

SOLID WALL COLUMN HEIGHT TABLE:		MAX ROOF SPAN = 12'-9"						DESIGN PRESSURE: +/-45.80 PSF (FOR USE WITH WINDOWS)
COLUMN	COLUMN SPACING							
	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
3" H-Mull + DRCs + Window Jambs	8'-9"	8'-3"	7'-8"	7'-3"	6'-10"	6'-5"	6'-1"	
Double H-Mull + DRCs + Window Jambs	9'-0"	9'-0"	8'-10"	8'-5"	8'-0"	7'-7"	7'-4"	

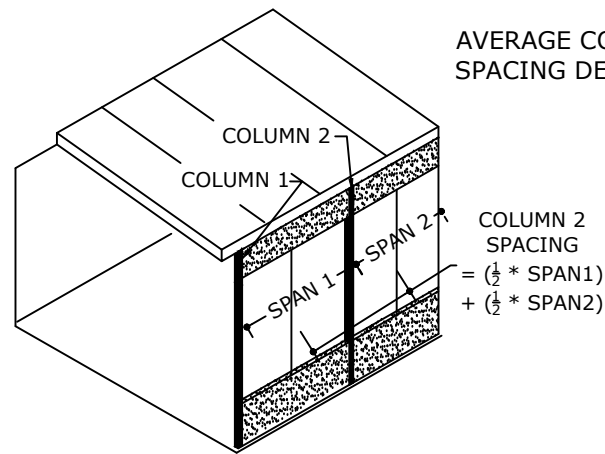
### TABLE 1-7 NOTES:

- 2010 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 1-8.
- 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.
- CUSTOM WINDOWS SERIES 3500 WINDOW JAMBS USED FOR CALCULATIONS, ANY ELITE ALUMINUM WINDOWS CAN BE SUBSTITUTED, OR OTHER MANUFACTURER EQUIVALENT WINDOW.
- 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)

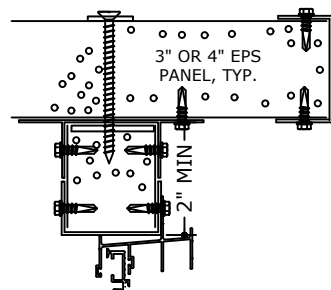
### LAG SPACING TABLE FOR WALL TO ROOF CONNECTION

LAG SPACING TABLE FOR 3" & 4" PANELS			
VEL & EXP	WL	0.024"	0.032"
130 B	40.6 PSF	6" O.C.	8" O.C.
140 B	31 PSF	(9) PER 4" PANEL	(7) PER 4" PANEL
150 B	31 PSF	(9) PER 4" PANEL	(7) PER 4" PANEL
160 B	31 PSF	(9) PER 4" PANEL	(7) PER 4" PANEL
170 B	31 PSF	(9) PER 4" PANEL	(7) PER 4" PANEL
180 B	31 PSF	(9) PER 4" PANEL	(7) PER 4" PANEL
130 C	51 PSF	5" O.C.	7" O.C.
140 C	65 PSF	(11) PER 4" PANEL	(8) PER 4" PANEL
150 C	65 PSF	(11) PER 4" PANEL	(8) PER 4" PANEL
170 C	65 PSF	(11) PER 4" PANEL	(8) PER 4" PANEL
180 C	65 PSF	(11) PER 4" PANEL	(8) PER 4" PANEL

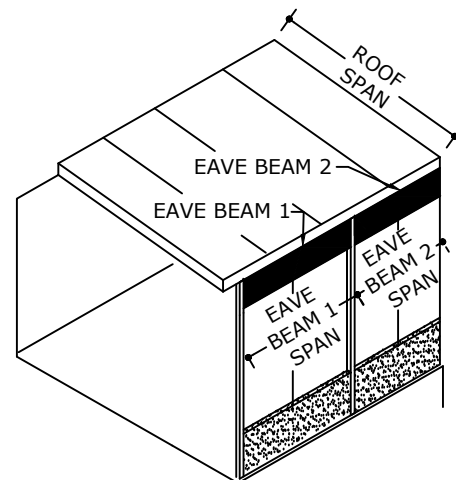
WL = WALL WINDLOAD  
RU = ROOF UPLIFT



### EAVE BEAM LIMITATIONS:



EAVE BEAM CLEAR SPAN DEFINED:



### EAVE BEAM LIMITATIONS:

VELOCITY & EXPOSURE	MAX ROOF SPAN	MAX EAVE BEAM SPAN
130MPH, EXP 'B'	21'-1"	6'-0"
130MPH, EXP 'C', 140MPH, EXP 'B'	20'-5"	6'-0"
140MPH, EXP 'C', 150MPH, EXP 'B'	19'-4"	6'-0"
150MPH, EXP 'C', 160MPH, EXP 'B'	17'-8"	6'-0"
160MPH, EXP 'C'	17'-4"	6'-0"
170MPH, EXP 'B'	17'-8"	6'-0"
170MPH, EXP 'C'	12'-9"	6'-0"
180MPH, EXP 'D'	12'-0"	6'-0"

### EAVE BEAM NOTES:

- 2010 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- DEFLECTION LIMIT = L/180.
- MINIMUM SOLID ROOF LIVE LOAD = 30PSF.
- MAX EAVE BEAM SPAN IS 6FT, HOWEVER THE MAX AVERAGE COLUMN SPACING IS 5FT.

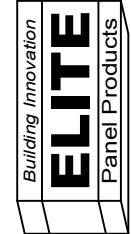
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**TARNOWSKI ENGINEERING**  
CIVIL & STRUCTURAL ENGINEERING  
7360 N.W. 5th Street  
Plantation, FL 33317  
Phone (954) 727 - 2027  
Fax (954) 727 - 9644

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



ELITE ROOF 3" ADD-A-ROOM MASTER PLAN SHEET

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