COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES

Revised 12/2016

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
1	Two (2) complete sets of plans containing the following:	- YES
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	- YES
3	Condition space (Sq. Ft.) 2254 Total (Sq. Ft.) under roof 2868	YES / NO / N/A

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	- YES
5	Dimensions of all building set backs	- YES
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- YES
7	Provide a full legal description of property.	- YES

Wind-load Engineering Summary, calculations and any details are required.

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
8	**Plans or specifications must show compliance with FBCR Chapter 3**	YES / NO / N/A
		Select From the Dropbox
9	Basic wind speed (3-second gust), miles per hour	- YES
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	-
11	Wind importance factor and nature of occupancy	-
12	The applicable internal pressure coefficient, Components and Cladding	-
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	-

Elevations Drawing including:

14	All side views of the structure	- YES
15	Roof pitch	- YES
16	Overhang dimensions and detail with attic ventilation	- YES
17	Location, size and height above roof of chimneys	- YES
18	Location and size of skylights with Florida Product Approval	- NONE
18	Number of stories	- YES
20A	Building height from the established grade to the roofs highest peak	- YES

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- YES
21	Raised floor surfaces located more than 30 inches above the floor or grade	- YES
22	All exterior and interior shear walls indicated	- YES
23	Shear wall opening shown (Windows, Doors and Garage doors)	- YES
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	- YES
25	Safety glazing of glass where needed	- YES
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)	- NONE
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	- NONE
28	Identify accessibility of bathroom (see FBCR SECTION 320)	- YES

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable

YES / NO / N/A

FBCR 403: Foundation Plans

Select From the Dropbox

29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	- YES
30	All posts and/or column footing including size and reinforcing	- YES
31	Any special support required by soil analysis such as piling.	- YES
32	Assumed load-bearing valve of soil_____ Pound Per Square Foot	- N/A
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) **For** structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	- YES

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	- YES
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	- YES

FBCR 318: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Submit other approved termite protection methods. **Protection shall be provided by registered termiticides**	- YES

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	-
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	- NONE

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	- YES NO

40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers	- ~~YES~~ NO
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	- NO
42	Attachment of joist to girder	- NO
43	Wind load requirements where applicable	- NO
44	Show required under-floor crawl space	- NO
45	Show required amount of ventilation opening for under-floor spaces	- NO
46	Show required covering of ventilation opening	- NO
47	Show the required access opening to access to under-floor spaces	- NO
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing	- NO
49	Show Draftstopping, Fire caulking and Fire blocking	- NO
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	- NO
51	Provide live and dead load rating of floor framing systems (psf).	- NO

YES / NO / N/A

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- YES
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	- YES
54	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	- YES
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	- YES
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per IRC Table 502.5 (1)	- YES
57	Indicate where pressure treated wood will be placed	- YES
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas	- YES
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- YES

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	- YES
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	- YES
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- YES
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	- YES
64	Provide dead load rating of trusses	- YES

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing	- NO
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	- NO
67	Valley framing and support details	- NO
68	Provide dead load rating of rafter system	- NO

FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	- YES
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	- YES

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	- YES
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	- YES

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter11 Residential buildings compliance methods. **Two of the required forms are to be submitted**, *N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.*

YES / NO / N/A

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
73	Show the insulation R value for the following areas of the structure	- YES
74	Attic space	- YES
75	Exterior wall cavity	- YES
76	Crawl space	- YES

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study	- YES
78	Exhaust fans shown in bathrooms **Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required**	- YES
79	Show clothes dryer route and total run of exhaust duct	- YES

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan	- YES
81	Show the location of water heater	- YES

Private Potable Water

82	Pump motor horse power	- NO
83	Reservoir pressure tank gallon capacity	- NO
84	Rating of cycle stop valve if used	- NO

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	- YES
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by **Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A**	- YES
87	Show the location of smoke detectors & Carbon monoxide detectors	- YES
88	Show service panel, sub-panel, location(s) and total ampere ratings	- YES
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. **For structures** with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3	- YES
90	Appliances and HVAC equipment and disconnects	- YES
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed **Combination arc-fault circuit interrupter,** Protection device.	- YES

Section 105 of the Florida Building Code defines the:

Time limitation of application.
An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date o filing, unless such application has been pursued in good faith or a permit has been issued; except that the building offi is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.
Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the pe application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.
Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Ever permit issued shall become invalid unless the work authorized by such permit is commenced within six months after it issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time work is commenced.

If work has commenced.
Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires beca of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained befo proceeding with the work.

New Permit.
Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became nu and void, the building official is authorized to require that any work which has been commenced or complet be removed from the building site. Alternately, a new permit may be issued on application, providing the wo in place and required to complete the structure meets all applicable regulations in effect at the time the initia permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

Work Shall Be:
Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approv inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or whe the building work is halted due directly to judicial injunction, order or similar process.

The Fee:
Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

Notification:
When the application is approved for permitting the applicant will be notified by phone as to the status by th Columbia County Building & Zoning Department.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	**Building Permit Application** A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a **$15.00** application fee. The completed application with attached documents and application fee can be mailed.	NO		
93	**Parcel Number** The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	NO		
94	**Town of Fort White** (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.	NO		
***	**BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.**	****	***	***
95	**Environmental Health Permit or Sewer Tap Approval** A copy of a approved Columbia County Environmental Health (386) 758-1058	NO		
96	**City of Lake City** A City Water and/or Sewer letter. Call 386-752-2031	NO		
97	**Flood Information:** All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations	NO		
98	**CERTIFIED FINISHED FLOOR ELEVATIONS** will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.			
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is **$50.00**			
100	**Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (**$25.00**) must be made. County Public Works Dept. determines the size and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (**$50.00**) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required.	NO		
101	**911 Address:** An application for a 911address must be applied for and **received** through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	NO		

TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. NO

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Therma Tru	Fiberglass door	FL #17540.1
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	M I	Vinyl Window	FL #17676.1
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Lemplank	Primed hardi board	FL #13192-6
B. SOFFITS	ATM	Aluminum Soffit	FL #1209
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCTURAL METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS	Simpson	Rafter ties H-10	FL 474.109
B. WOOD ANCHORS	Simpson	Strap straps MSTA24	FL 19015.1
C. TRUSS PLATES	Simpson	Top plate Con SPH4	FL 538
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Contractor OR Agent Signature 12/25/17 Date

NOTES: _____

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

#36274

RE: 19455 -

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: 84 LUMBER Project Name: PARK RES. Model: 000
Lot/Block: 000 Subdivision: 000
Address: 000, 000
City: 000 State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FRC2017/TPI2014 Design Program: MiTek 20/20 8.1
Wind Code: ASCE 7-10 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T13002833	T1	1/19/18
2	T13002834	T10	1/19/18
3	T13002835	T11	1/19/18
4	T13002836	T12	1/19/18
5	T13002837	T2	1/19/18
6	T13002838	T3	1/19/18
7	T13002839	T4	1/19/18
8	T13002840	T5	1/19/18
9	T13002841	T6	1/19/18
10	T13002842	T7	1/19/18
11	T13002843	T8	1/19/18
12	T13002844	T9	1/19/18

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Duley Truss.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2019.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

JOAQUIN VELEZ LICENSE No 68182 STATE OF FLORIDA PROFESSIONAL ENGINEER

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 19,2018

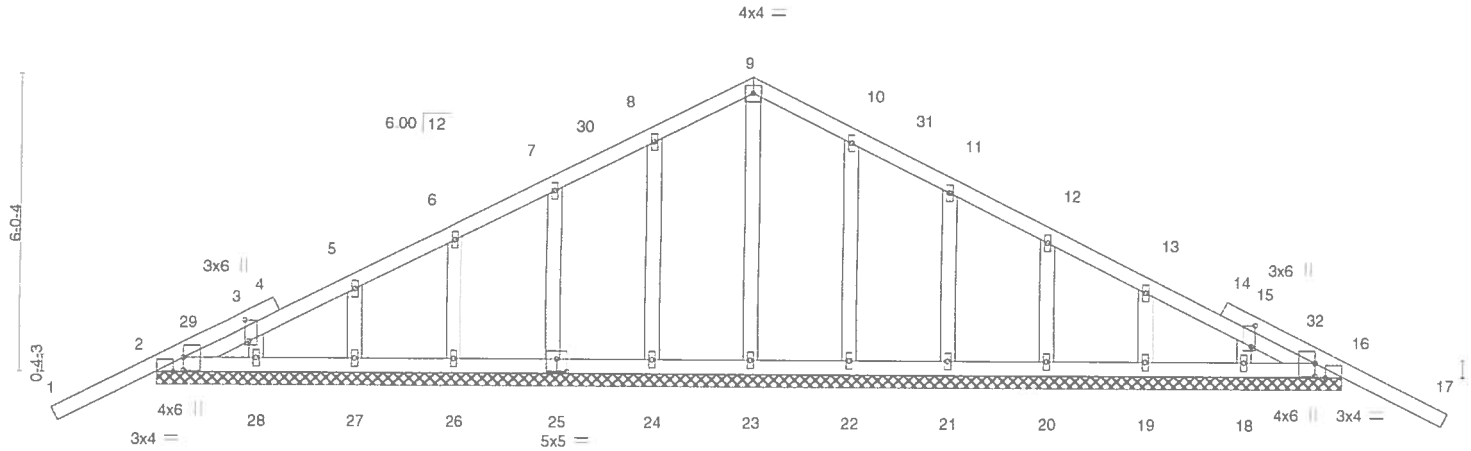
Job	Truss	Truss Type	Qty	Ply	
19455	T1	Common Supported Gable	1	1	T1300283

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:49 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-3yyb1IkrA8bT7tIXX7UuFPX1I6KSIMtqEfaYLCztsZC

-2-0-0 2-0-0 | 12-0-0 12-0-0 | 24-0-0 12-0-0 | 26-0-0 2-0-0

Scale = 1:46



24-0-0
24-0-0

Plate Offsets (X,Y)-- [2:0-3-1,0-0-0], [2:0-2-8,Edge], [3:0-5-2,0-1-0], [15:0-5-2,0-1-0], [16:0-2-8,Edge], [16:0-3-1,0-0-0], [25:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.03	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 2=-129(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 27, 22, 21, 20, 19 except 2=-148(LC 12), 16=-147(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 12-0-0, Corner(3) 12-0-0 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 25, 26, 27, 22, 21, 20, 19 except (jt=lb) 2=148, 16=147.

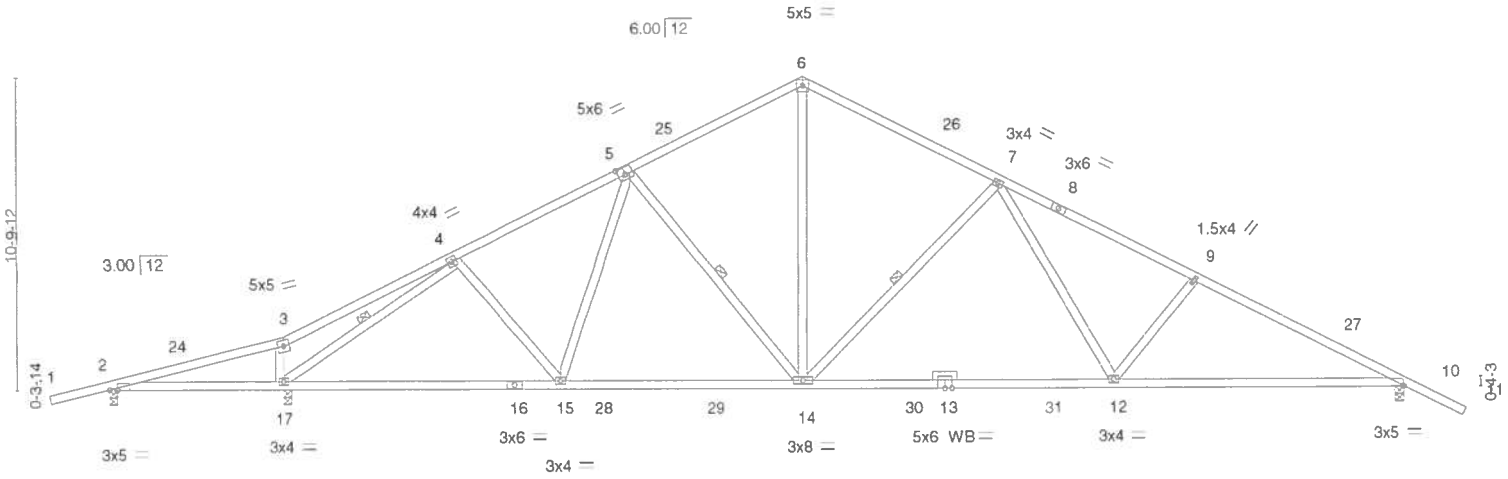
MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T13002834
19455	T10	Roof Special	11	1	Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:50 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-X8W_EelTwSjKI1tk5q?7od39kWTI1fn_TJJ6teztsZB

-2-0-0	5-11-15	11-11-14	17-11-13	23-11-13	30-9-6	37-6-15	44-11-0	46-11-0
2-0-0	5-11-15	5-11-15	5-11-15	5-11-15	6-9-9	6-9-9	7-4-1	2-0-0

Scale = 1:80.0



5-11-15	6-1-12	15-7-1	23-11-13	34-9-6	44-11-0
5-11-15	0-1-13	9-5-5	8-4-11	10-9-9	10-1-10

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [5:0-3-0,0-3-0], [10:0-0-4,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.41	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.70	12-14	>670	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.1 *Except*
2-16: 2x4 SP No.2D
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-17, 5-14, 7-14

REACTIONS. (lb/size) 2=284/0-3-8, 17=1710/0-3-8, 10=1551/0-3-8
Max Horz 2=247(LC 11)
Max Uplift 2=-138(LC 12), 17=-276(LC 12), 10=-345(LC 12)
Max Grav 2=300(LC 21), 17=1710(LC 1), 10=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-1900/535, 5-6=-1597/527, 6-7=-1595/522, 7-9=-2516/604, 9-10=-2720/621
BOT CHORD 15-17=-276/1746, 14-15=-205/1736, 12-14=-292/1826, 10-12=-446/2361
WEBS 3-17=-311/184, 4-17=-2072/461, 5-14=-465/223, 6-14=-249/1093, 7-14=-775/301, 7-12=-45/688, 9-12=-360/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 2-5-8, Interior(1) 2-5-8 to 23-11-13, Exterior(2) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=138, 17=276, 10=345.

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Job	Truss	Truss Type	Qty	Ply	
19455	T11	Common Supported Gable	2	1	T13002835
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:51 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-?K4MSzI5hmrBMASwfYWMKqcM1w0FmGT7iz3fP4ztsZA

-2-0-0 2-0-0 | 4-0-0 4-0-0 | 8-0-0 4-0-0 | 10-0-0 2-0-0

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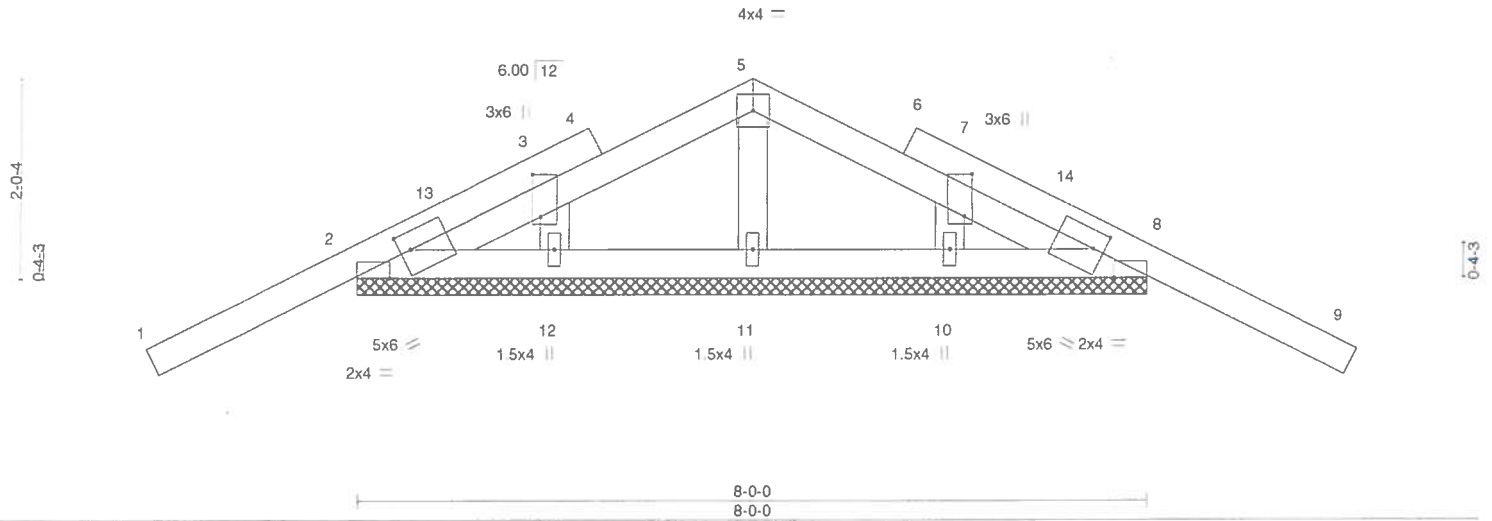

8-0-0
8-0-0

Plate Offsets (X,Y)-- [2:0-1-4,0-2-1], [2:0-2-8,Edge], [3:0-5-2,0-1-0], [7:0-5-2,0-1-0], [8:0-1-4,0-2-1], [8:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.02	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.03	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-P							Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 2=52(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 2=-157(LC 12), 8=-157(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 4-0-0, Corner(3) 4-0-0 to 7-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 10 except (jt=lb) 2=157, 8=157.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.

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Job	Truss	Truss Type	Qty	Ply	
19455	T12	Common	3	1	T13002836

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:52 2018 Page 1
ID:Kiypr3POqCblMC8MarRu6nyEe2g-UXekfJmjS3z2_K16DF1bt29Z8JKfViYHxdoCyXztsZ9

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2-0-0 4-0-0 4-0-0 2-0-0

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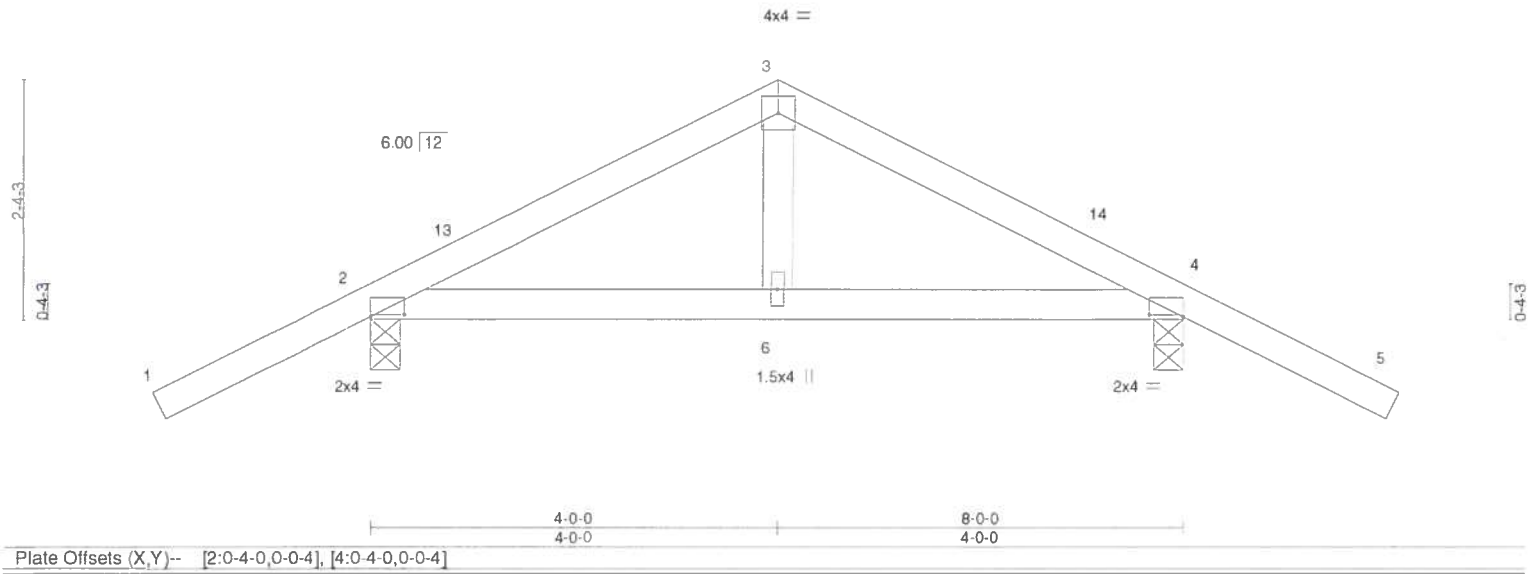

Plate Offsets (X,Y)-- [2:0-4-0,0-0-4], [4:0-4-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=408/0-3-8, 4=408/0-3-8
Max Horz 2=58(LC 11)
Max Uplift 2=-139(LC 12), 4=-139(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-328/87, 3-4=-328/89
BOT CHORD 2-6=0/254, 4-6=0/254

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 4=139.

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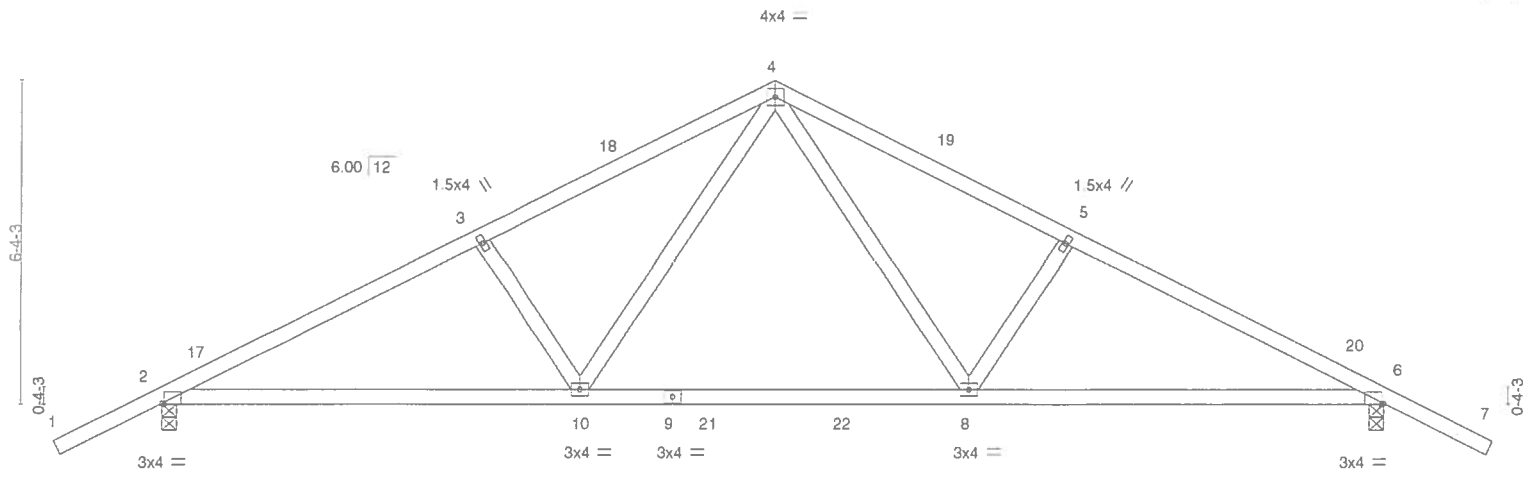
Job	Truss	Truss Type	Qty	Ply	
19455	T2	Common	8	1	T13002837

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:52 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-UXekfJmjS3z2_K16DF1bt29YDJDpVgTHxdoCyXztsZ9

-2-0-0	6-3-4	12-0-0	17-8-12	24-0-0	26-0-0
2-0-0	6-3-4	5-8-12	5-8-12	6-3-4	2-0-0

Scale = 1:45.3



8-2-3	15-9-13	24-0-0
8-2-3	7-7-11	8-2-3

Plate Offsets (X,Y)-- [2:0-0-8,Edge], [6:0-0-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.12	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.19	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1000/0-3-8, 6=1000/0-3-8
Max Horz 2=-135(LC 10)
Max Uplift 2=-243(LC 12), 6=-243(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1525/362, 3-4=-1356/362, 4-5=-1356/362, 5-6=-1525/362
BOT CHORD 2-10=-191/1320, 8-10=-62/870, 6-8=-228/1314
WEBS 4-8=-101/555, 5-8=-327/209, 4-10=-101/555, 3-10=-327/209

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=243, 6=243.

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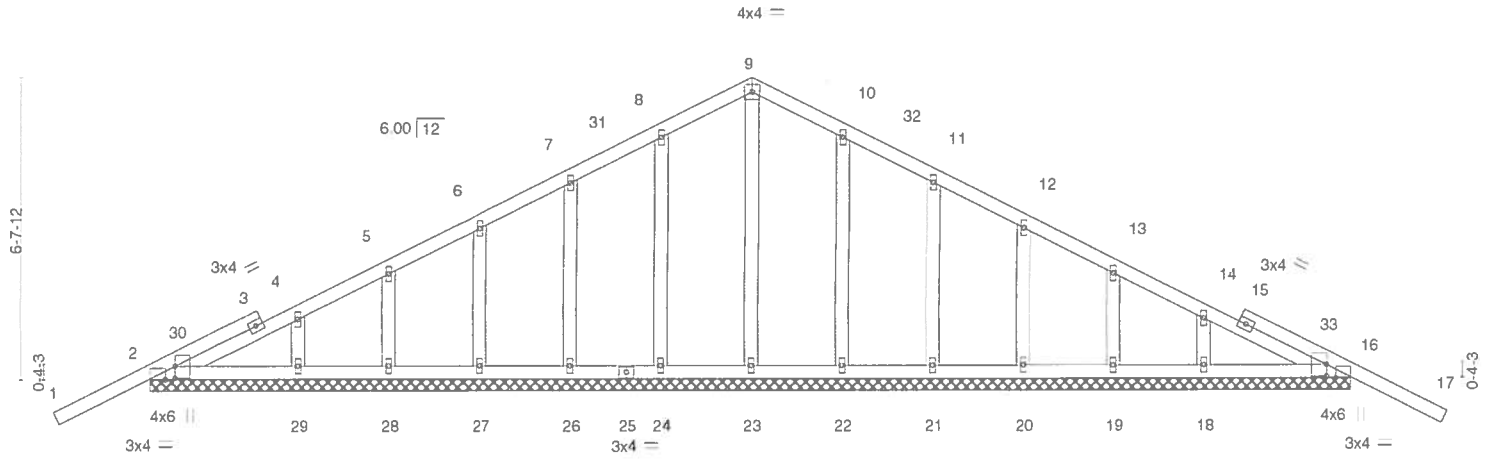
Job	Truss	Truss Type	Qty	Ply	
19455	T3	Common Supported Gable	1	1	T13002838
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430,

8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:54 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-QvIU4?oz_gDmDeAVKg43yTEu271WzcfZOxHJ0PztsZ7

-2-0-0 | 13-3-0 | 26-6-0 | 28-6-0
2-0-0 | 13-3-0 | 13-3-0 | 2-0-0

Scale = 1:50.9



26-6-0
26-6-0

Plate Offsets (X,Y)-- [2:0-3-1,0-0-0], [2:0-2-8,Edge], [16:0-3-1,0-0-0], [16:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 26-6-0.
(lb) - Max Horz 2=-144(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=-134(LC 12), 16=-134(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=261(LC 1), 16=261(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-84/260, 9-10=-84/266

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 13-3-0, Corner(3) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except (jt=lb) 2=134, 16=134.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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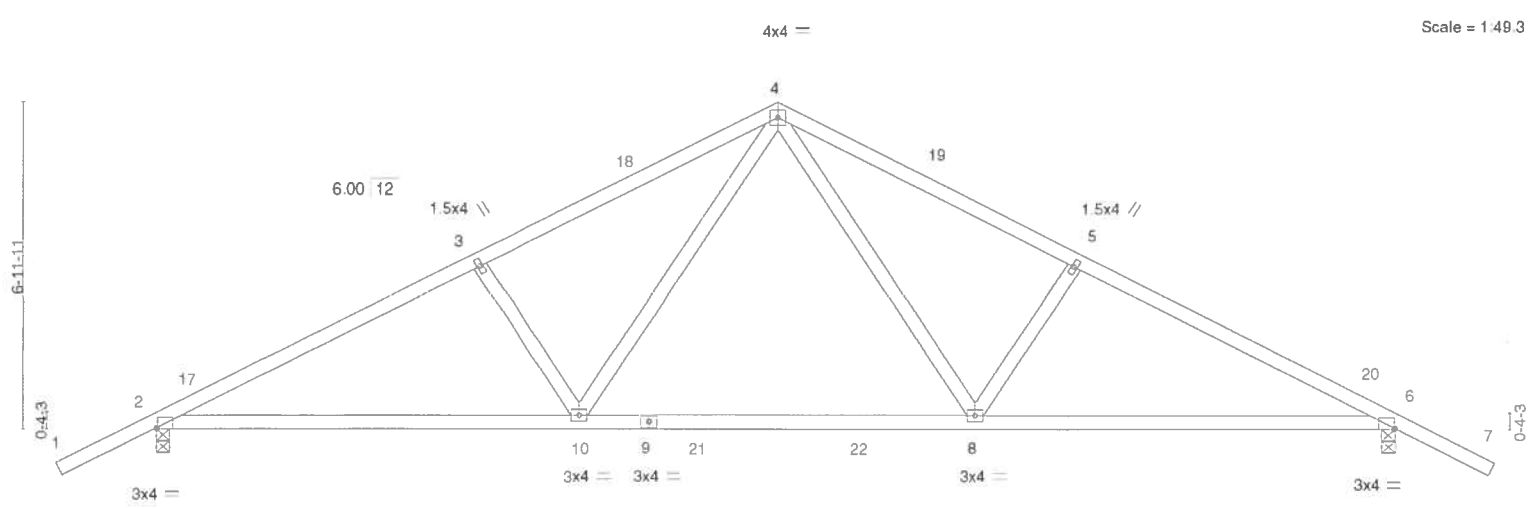
Job	Truss	Truss Type	Qty	Ply	T13002839
19455	T4	Common	4	1	Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:55 2018 Page 1
ID:Kiypr3POqCblMC8MarRu6nyEe2g-u6JtHLocl_MdrolhuOblUgn23XCai1qjdb1sYsztsZ6

-2-0-0	6-10-12	13-3-0	19-7-4	26-6-0	28-6-0
2-0-0	6-10-12	6-4-4	6-4-4	6-10-12	2-0-0

Scale = 1:49.3



9-0-3	17-5-13	26-6-0
9-0-3	8-5-11	9-0-3

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [6:0-0-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.19	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1092/0-3-8, 6=1092/0-3-8
Max Horz 2=150(LC 11)
Max Uplift 2=-260(LC 12), 6=-260(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1698/401, 3-4=-1509/401, 4-5=-1509/401, 5-6=-1698/401
BOT CHORD 2-10=-219/1491, 8-10=-73/967, 6-8=-256/1464
WEBS 4-8=-111/634, 5-8=-365/230, 4-10=-111/634, 3-10=-365/230

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 13-3-0, Exterior(2) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 6=260.

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Job	Truss	Truss Type	Qty	Ply	
19455	T5	Common	1	1	T13002840
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:55 2018 Page 1
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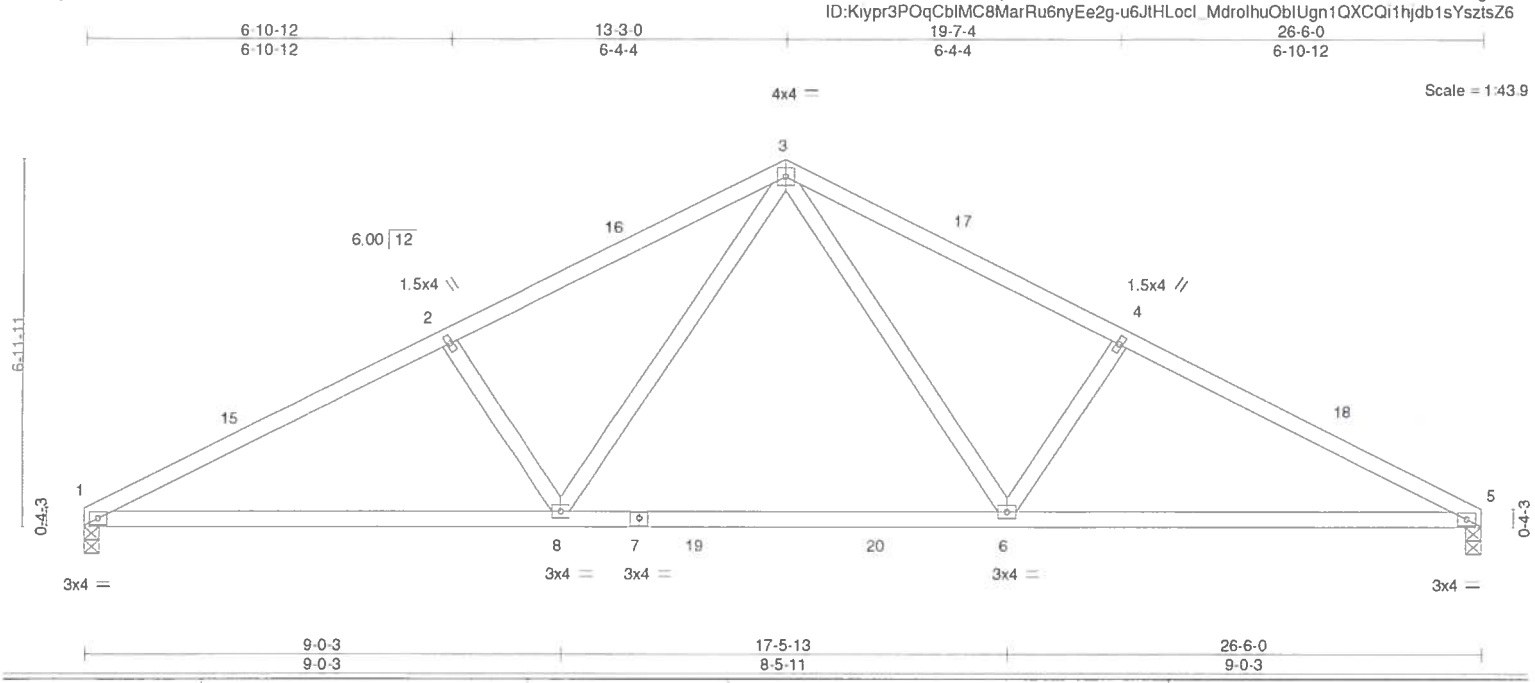

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.19	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.29	6-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=981/0-3-8, 5=981/0-3-8
Max Horz 1=-130(LC 10)
Max Uplift 1=-173(LC 12), 5=-173(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1719/453, 2-3=-1544/453, 3-4=-1544/453, 4-5=-1719/453
BOT CHORD 1-8=-319/1507, 6-8=-128/983, 5-6=-319/1501
WEBS 3-6=-120/653, 4-6=-379/238, 3-8=-120/653, 2-8=-379/238

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-3-0, Exterior(2) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=173, 5=173.

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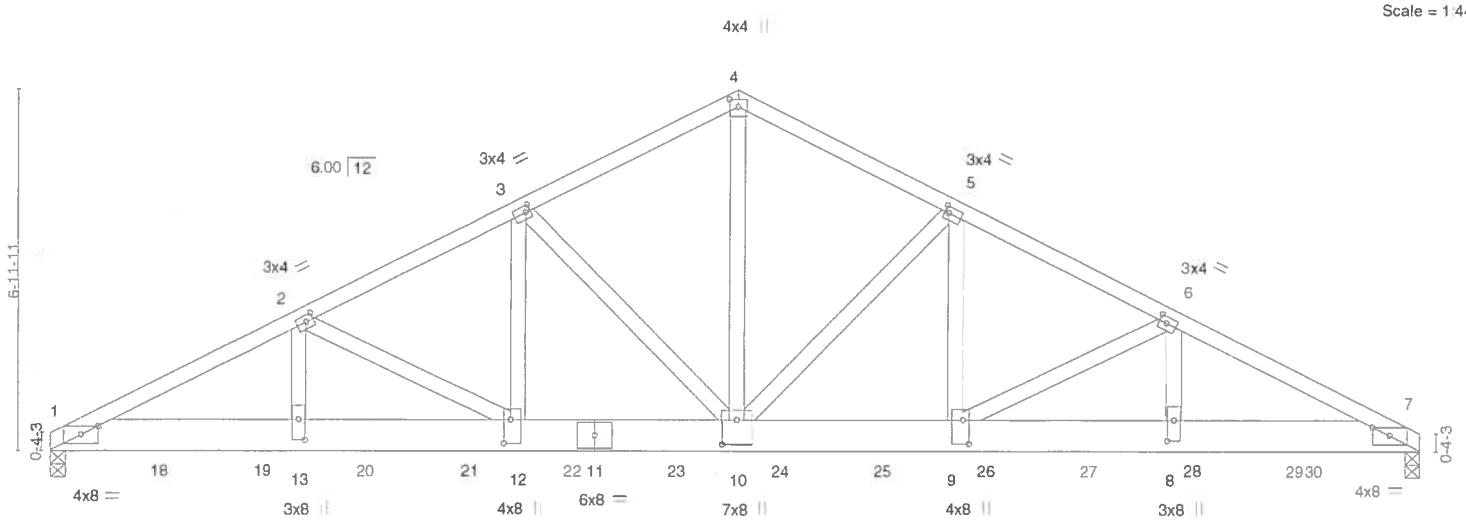
Job	Truss	Truss Type	Qty	Ply	
19455	T6	Common Girder	1	4	T13002841

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:57 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-qURdi1qsHbcL45v4?odma5sJ1KsPAq704vWzdkztsZ4

4-9-5	9-0-3	13-3-0	17-5-13	21-8-11	26-6-0
4-9-5	4-2-13	4-2-13	4-2-13	4-2-13	4-9-5

Scale = 1:44.6



4-9-5	9-0-3	13-3-0	17-5-13	21-8-11	26-6-0
4-9-5	4-2-13	4-2-13	4-2-13	4-2-13	4-9-5

Plate Offsets (X,Y)-- [1:0-4-0,0-1-15], [2:0-1-12,0-1-8], [3:0-1-0,0-1-8], [4:0-1-12,0-2-0], [5:0-1-0,0-1-8], [6:0-1-12,0-1-8], [7:0-4-0,0-1-15], [8:0-4-12,0-1-8], [9:0-5-8,0-1-8], [10:0-5-12,0-3-8], [12:0-5-8,0-1-8], [13:0-4-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.17	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.31	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 729 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x8 SP No.1D
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2D

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=10682/0-3-8, 7=11758/0-3-8
Max Horz 1=-129(LC 23)
Max Uplift 1=-1984(LC 8), 7=-2184(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-21178/3949, 2-3=-17231/3246, 3-4=-13238/2543, 4-5=-13237/2543, 5-6=-17434/3284, 6-7=-22215/4143
BOT CHORD 1-13=-3481/18915, 12-13=-3481/18915, 10-12=-2786/15383, 9-10=-2819/15562, 8-9=-3657/19857, 7-8=-3657/19857
WEBS 4-10=-2162/11536, 5-10=-5406/1059, 5-9=-984/5542, 6-9=-4879/951, 6-8=-729/4211, 3-10=-5148/1011, 3-12=-931/5260, 2-12=-4012/789, 2-13=-589/3463

NOTES-
1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-8 2x4 - 2 rows staggered at 0-7-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1984, 7=2184.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1577 lb down and 302 lb up at 2-0-12, 1577 lb down and 302 lb up at 4-0-12, 1577 lb down and 302 lb up at 6-0-12, 1577 lb down and 302 lb up at 8-0-12, 1577 lb down and 302 lb up at 10-0-12, 1577 lb down and 302 lb up at 12-0-12, 1577 lb down and 302 lb up at 14-0-12, 1577 lb down and 302 lb up at 16-0-12, 1577 lb down and 302 lb up at 18-0-12, 1577 lb down and 302 lb up at 20-0-12, 1577 lb down and 302 lb up at 22-0-12, and 1577 lb down and 302 lb up at 24-0-12, and 1577 lb down and 302 lb up at 24-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 1-7=-20
   Concentrated Loads (lb)
   Vert: 18=-1577(F) 19=-1577(F) 20=-1577(F) 21=-1577(F) 22=-1577(F) 23=-1577(F) 24=-1577(F) 25=-1577(F) 26=-1577(F) 27=-1577(F) 28=-1577(F) 29=-1577(F) 30=-1577(F)

Job	Truss	Truss Type	Qty	Ply	
19455	T7	Roof Special Supported Gable	1	1	T13002842

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:20:59 2018 Page 1
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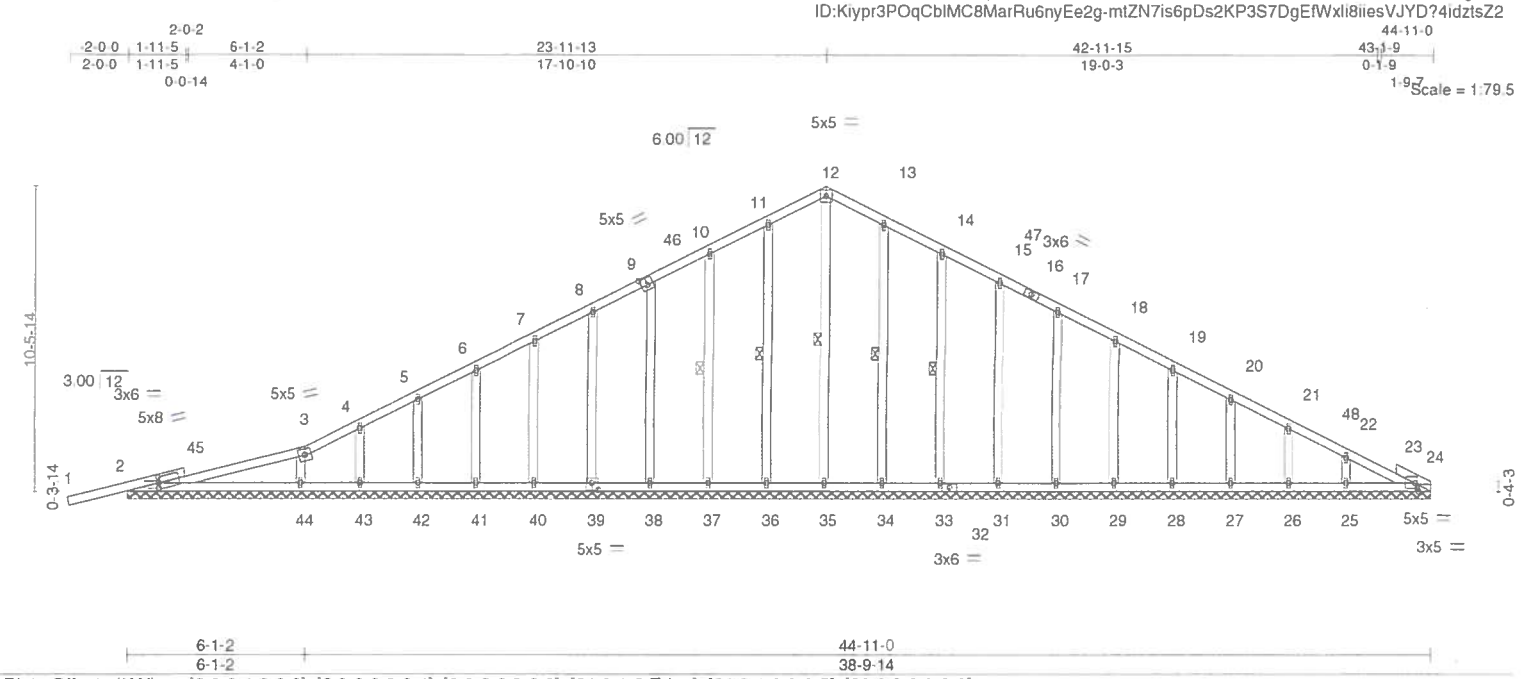

Plate Offsets (X,Y)-- [2:0-0-4,0-2-6], [2:0-0-0,0-2-4], [9:0-2-8,0-3-0], [24:0-1-8,Edge], [24:0-1-0,0-2-5], [39:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 294 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-44.
WEBS 1 Row at midpt 12-35, 11-36, 10-37, 13-34, 14-33

REACTIONS. All bearings 44-11-0.
(lb) - Max Horz 2=235(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 44 except 2=-122(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24 except 2=322(LC 1), 44=399(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-91/287, 10-11=-112/349, 11-12=-129/395, 12-13=-129/391, 13-14=-111/344, 14-15=-91/286
WEBS 3-44=-261/189

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-7 to 2-5-8, Exterior(2) 2-5-8 to 23-11-13, Corner(3) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 44 except (jt=lb) 2=122.

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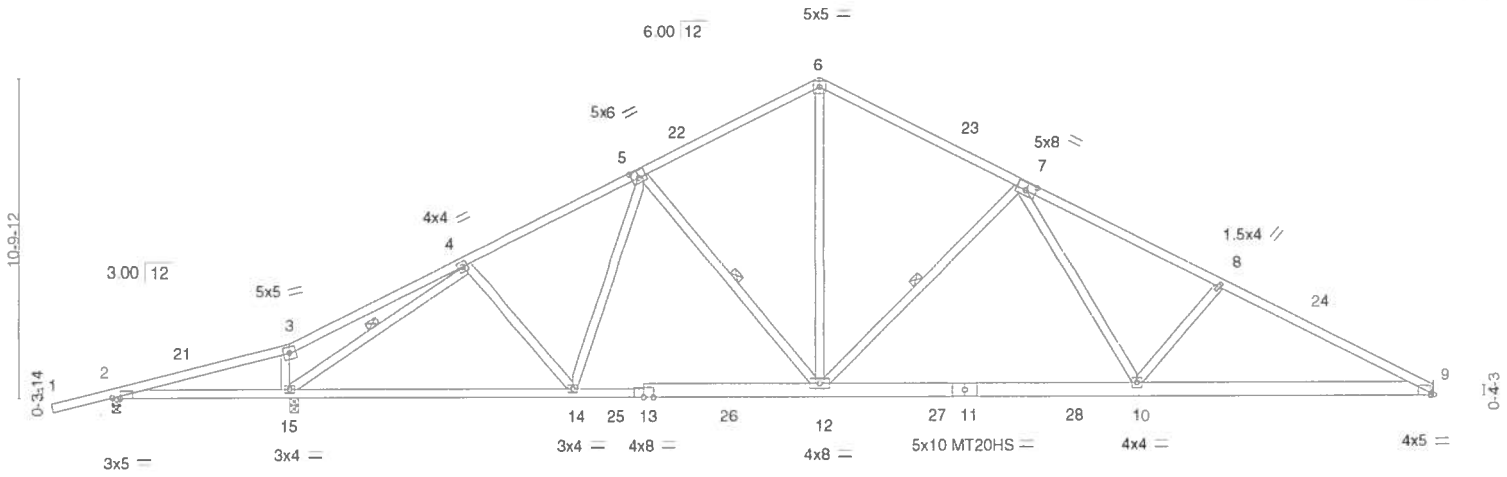
Job	Truss	Truss Type	Qty	Ply	
19455	T8	Roof Special	14	1	T13002843
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:21:00 2018 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-F37mL2skaW_vxZefhxBTBjUrFYsaN9RSmtkdE3ztsZ1

2-0-0	5-11-15	11-11-14	17-11-13	23-11-13	30-9-6	37-6-15	44-11-0
2-0-0	5-11-15	5-11-15	5-11-15	5-11-15	6-9-9	6-9-9	7-4-1

Scale = 1:78.5



5-11-15	6-1-12	15-7-1	23-11-13	34-9-6	44-11-0
5-11-15	0-1-13	9-5-5	8-4-11	10-9-9	10-1-10

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [5:0-3-0,0-3-0], [7:0-4-0,0-3-0], [9:0-1-4,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.26	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.49	10-12	>959	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 260 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x6 SP No.2 *Except*
2-13: 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-12, 4-15, 5-12

REACTIONS. (lb/size) 2=285/0-3-8, 15=1817/0-3-8, 9=1597/Mechanical
Max Horz 2=241(LC 11)
Max Uplift 2=-134(LC 12), 15=-303(LC 12), 9=-282(LC 12)
Max Grav 2=298(LC 21), 15=1817(LC 1), 9=1599(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-2080/604, 5-6=-1824/617, 6-7=-1827/620, 7-8=-2941/824, 8-9=-3137/849
BOT CHORD 14-15=-378/1867, 12-14=-332/1895, 10-12=-446/2152, 9-10=-655/2739
WEBS 3-15=-311/177, 6-12=-331/1285, 7-12=-904/348, 7-10=-149/857, 8-10=-332/229, 4-15=-2212/548, 5-12=-415/201

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 2-5-8, Interior(1) 2-5-8 to 23-11-13, Exterior(2) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 15=303, 9=282.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-9=-54, 12-16=-20, 10-12=-45(F=-25), 9-10=-20

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Job	Truss	Truss Type	Qty	Ply	
19455	T9	Roof Special Supported Gable	1	1	T13002844

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Fri Jan 19 07:21:02 2018 Page 1
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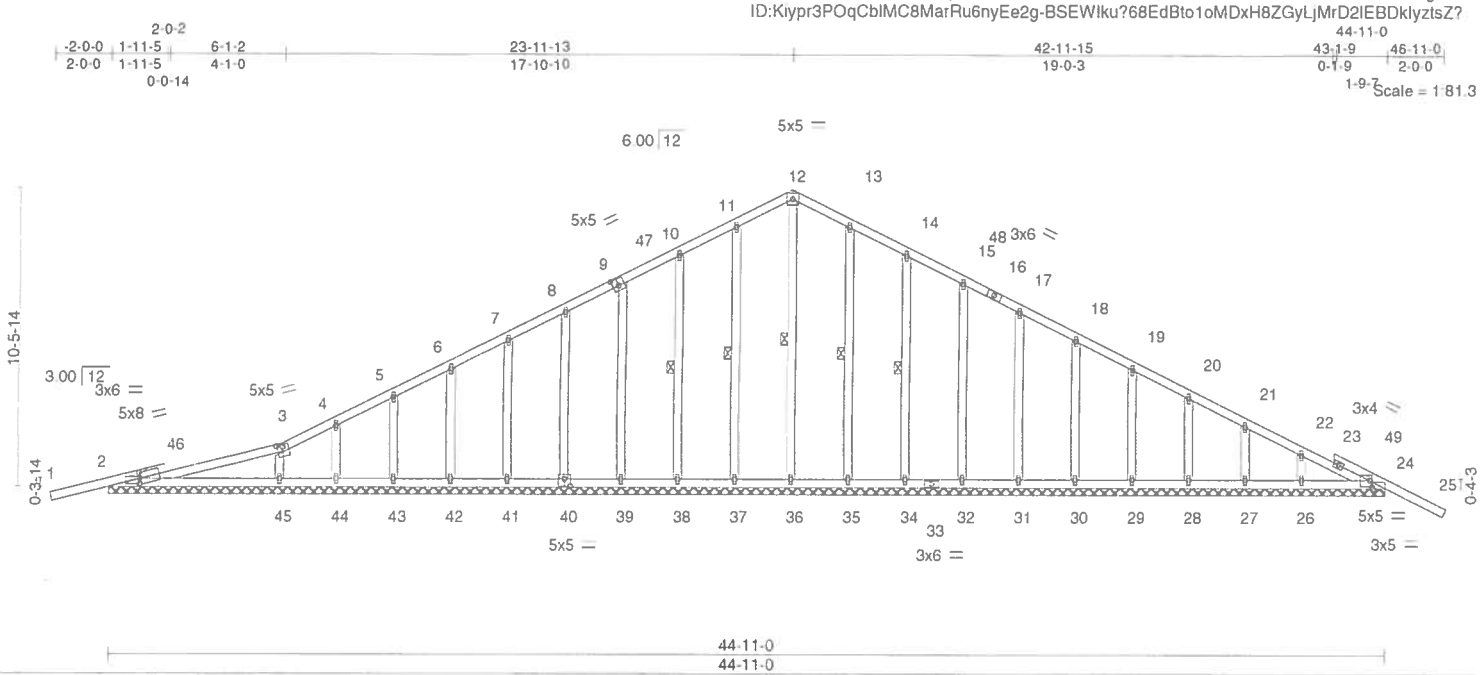

Plate Offsets (X,Y)-- [2:0-0-4,0-2-6], [2:0-0-0,0-2-4], [3:0-2-8,0-1-0], [9:0-2-8,0-3-0], [24:0-1-8,Edge], [24:0-1-0,0-2-9], [40:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	25	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 298 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-45.
WEBS 1 Row at midpt 12-36, 11-37, 10-38, 13-35, 14-34

REACTIONS. All bearings 44-11-0.
(lb) - Max Horz 2=240(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except 2=-126(LC 12), 24=-120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 44, 35, 34, 32, 31, 30, 29, 28, 27, 26 except 2=324(LC 1), 45=400(LC 1), 24=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-103/254, 9-10=-97/307, 10-11=-119/369, 11-12=-136/415, 12-13=-136/422, 13-14=-118/375, 14-15=-98/316, 15-17=-79/261
WEBS 3-45=-260/193

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-7 to 2-5-8, Exterior(2) 2-5-8 to 23-11-13, Corner(3) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 2=126, 24=120.

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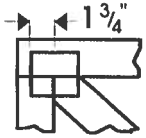
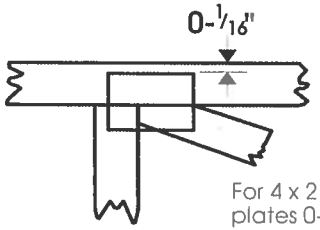
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

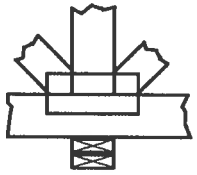
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

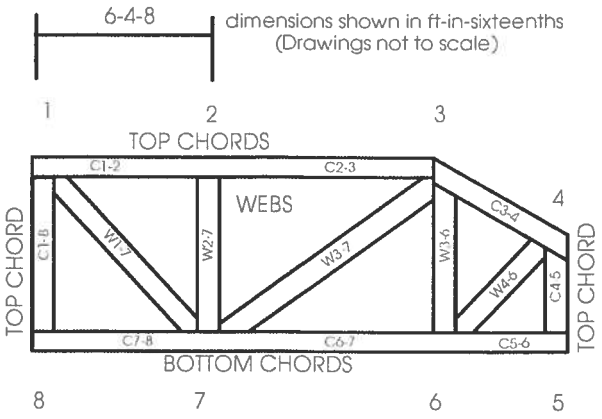


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: Q1526 -

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: 84 LUMBER Project Name: PARK RES. Model: 000
Lot/Block: 000 Subdivision: 000
Address: 000, 000
City: 000 State: FL

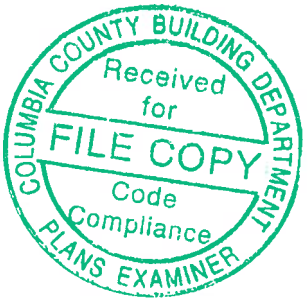
Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FRC2017/TPI2014 Design Program: MiTek 20/20 8.1
Wind Code: ASCE 7-10 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

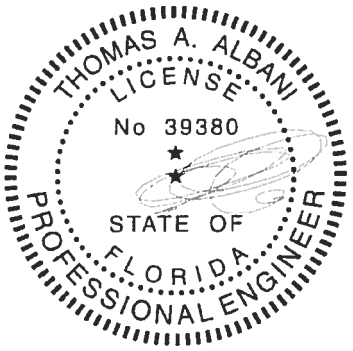
No.	Seal#	Truss Name	Date
1	T12602780	T1	11/29/17
2	T12602781	T10	11/29/17
3	T12602782	T11	11/29/17
4	T12602783	T12	11/29/17
5	T12602784	T2	11/29/17
6	T12602785	T3	11/29/17
7	T12602786	T4	11/29/17
8	T12602787	T5	11/29/17
9	T12602788	T6	11/29/17
10	T12602789	T7	11/29/17
11	T12602790	T8	11/29/17
12	T12602791	T9	11/29/17



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Duley Truss.

Truss Design Engineer's Name: Albani, Thomas
My license renewal date for the state of Florida is February 28, 2019.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

November 29,2017

Job	Truss	Truss Type	Qty	Ply	
Q1526	T1	Common Supported Gable	1	1	T12602780

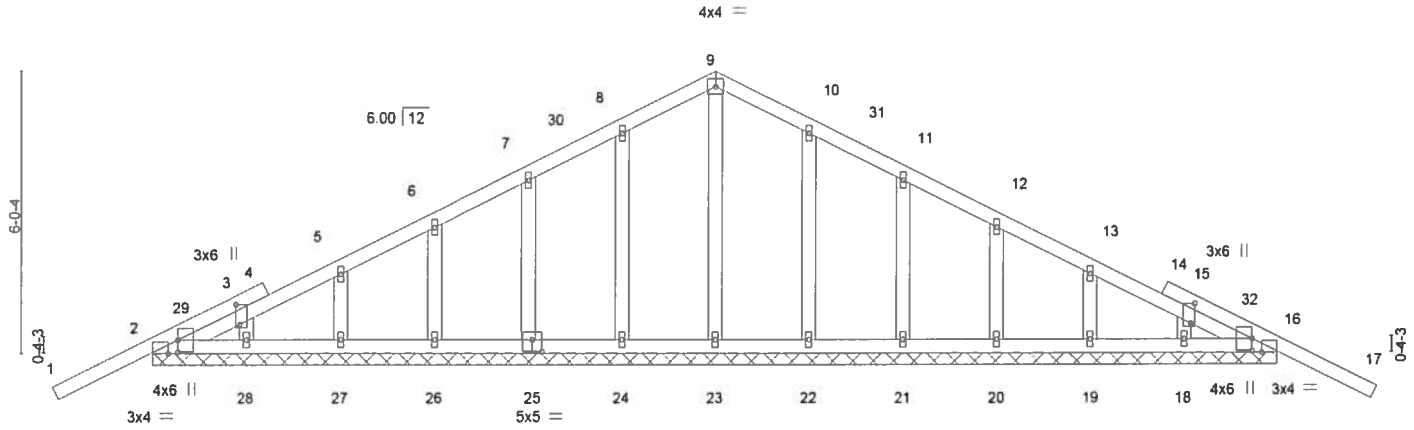
Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:06 2017 Page 1

ID:Kiypr3POqCbIMC8MarRu6nyEe2g-uKIBBIHKr6YJ1uO47oZ2KSYJgn6nSVLAliGqIRyEOOd

-2-0-0 2-0-0 | 12-0-0 12-0-0 | 24-0-0 12-0-0 | 26-0-0 2-0-0

Scale = 1:46.8



24-0-0
24-0-0

Plate Offsets (X,Y)-- [2:0-3-1,0-0-0], [2:0-2-8,Edge], [3:0-5-2,0-1-0], [15:0-5-2,0-1-0], [16:0-2-8,Edge], [16:0-3-1,0-0-0], [25:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.03	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-0-0.
(lb) - Max Horz 2=-129(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 24, 25, 26, 27, 22, 21, 20, 19 except 2=-148(LC 12), 16=-147(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 12-0-0, Corner(3) 12-0-0 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 25, 26, 27, 22, 21, 20, 19 except (jt=lb) 2=148, 16=147.

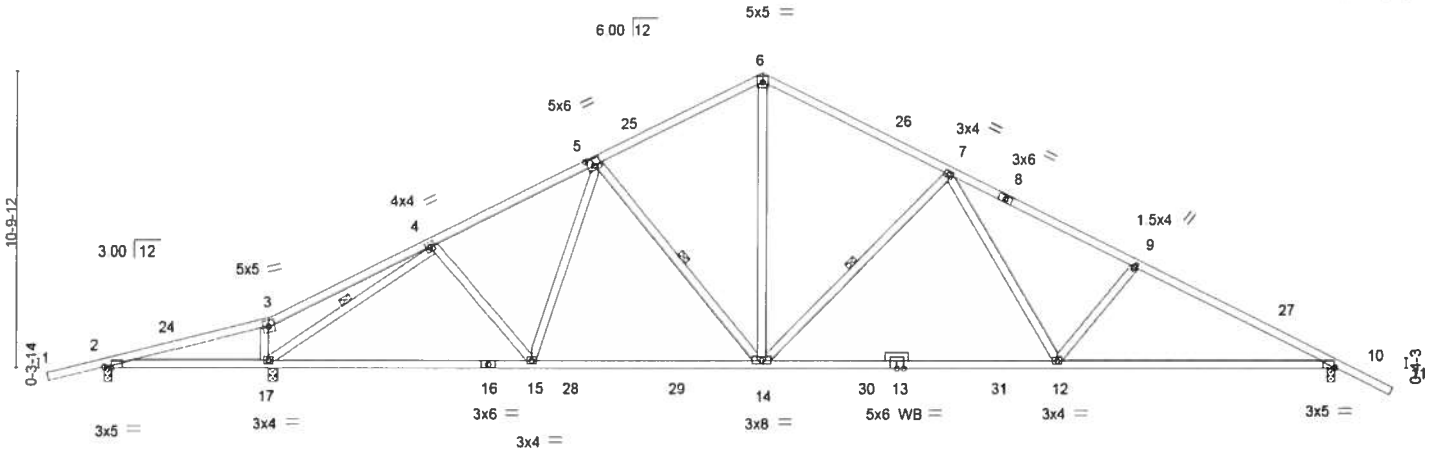
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
Q1526	T10	Roof Special	11	1	T12602781
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:08 2017 Page 1
ID:Kiypr3POqCblMC8MarRu6nyEe2g-qjPyc_IaNjo1HBYTEDcWQtecsbbswFVTC0lxNJyEOOb

-2-0-0	5-11-15	11-11-14	17-11-13	23-11-13	30-9-6	37-6-15	44-11-0	46-11-0
2-0-0	5-11-15	5-11-15	5-11-15	5-11-15	6-9-9	6-9-9	7-4-1	2-0-0

Scale = 1:80.0



5-11-15	6-1-12	15-7-1	23-11-13	34-9-6	44-11-0
5-11-15	0-1-13	9-5-5	8-4-11	10-9-9	10-1-10

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [5:0-3-0,0-3-0], [10:0-0-4,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.41	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.70	12-14	>670	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 242 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.1 *Except*
2-16: 2x4 SP No.2D
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-17, 5-14, 7-14

REACTIONS. (lb/size) 2=284/0-3-8, 17=1710/0-3-8, 10=1551/0-3-8
Max Horz 2=247(LC 11)
Max Uplift 2=-138(LC 12), 17=-276(LC 12), 10=-345(LC 12)
Max Grav 2=300(LC 21), 17=1710(LC 1), 10=1551(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-1900/535, 5-6=-1597/527, 6-7=-1595/522, 7-9=-2516/604, 9-10=-2720/621
BOT CHORD 15-17=-276/1746, 14-15=-205/1736, 12-14=-292/1826, 10-12=-446/2361
WEBS 3-17=-311/184, 4-17=-2072/461, 5-14=-465/223, 6-14=-249/1093, 7-14=-775/301, 7-12=-45/688, 9-12=-360/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 2-5-8, Interior(1) 2-5-8 to 23-11-13, Exterior(2) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=138, 17=276, 10=345.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

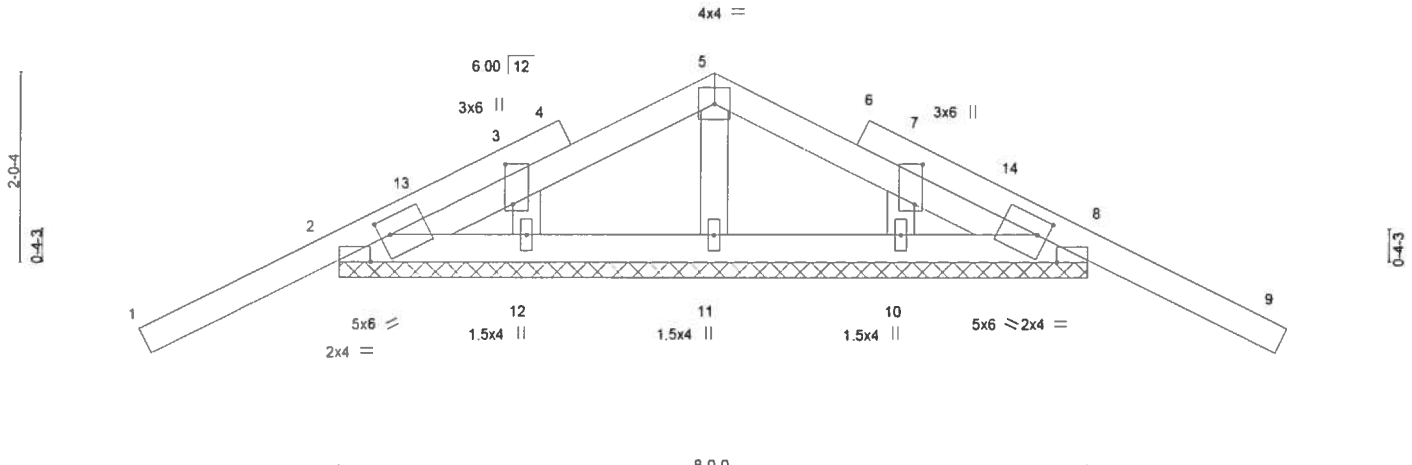
Job	Truss	Truss Type	Qty	Ply	
Q1526	T11	Common Supported Gable	2	1	T12602782

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:09 2017 Page 1
ID:Kiypr3POqCblMC8MarRu6nyEe2g-IvzKpKJC81wuuL7fox7Iy5Ap8?8pfsBcRgVUvlyEOOa

-2-0-0 | 4-0-0 | 8-0-0 | 10-0-0
2-0-0 | 4-0-0 | 4-0-0 | 2-0-0

Scale = 1:23.4



8-0-0
8-0-0

Plate Offsets (X,Y)-- [2:0-1-4,0-2-1], [2:0-2-8,Edge], [3:0-5-2,0-1-0], [7:0-5-2,0-1-0], [8:0-1-4,0-2-1], [8:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.02	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.03	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-P							Weight: 42 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-0-0.
(lb) - Max Horz 2=52(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 2=-157(LC 12), 8=-157(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 4-0-0, Corner(3) 4-0-0 to 7-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 10 except (jt=lb) 2=157, 8=157.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

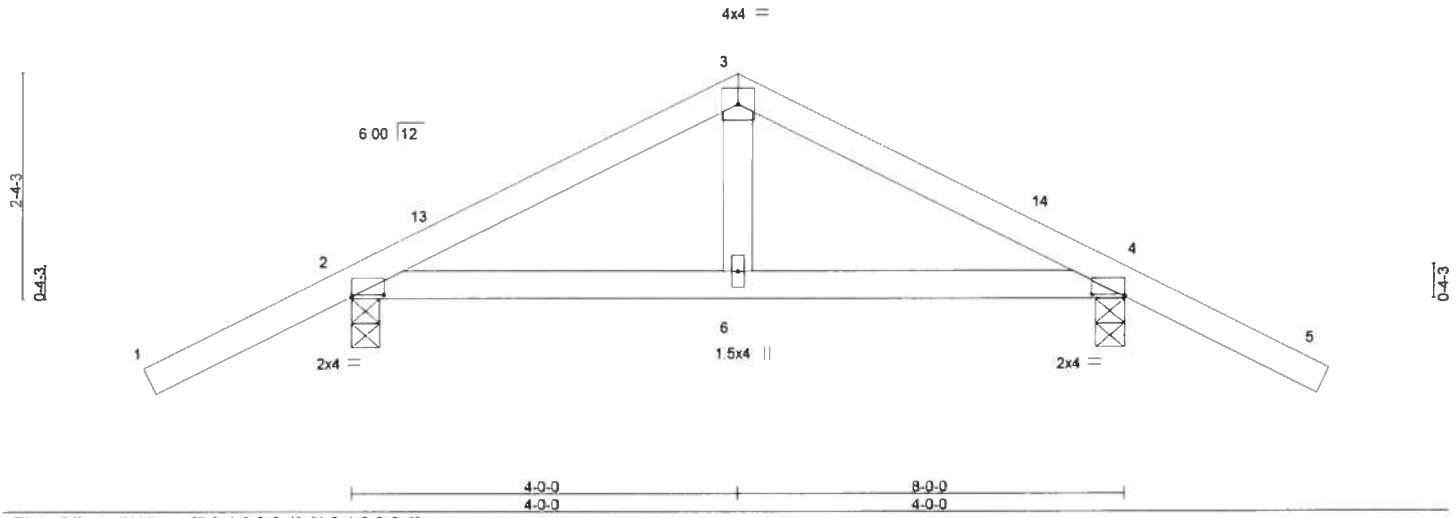
Job	Truss	Truss Type	Qty	Ply	
Q1526	T12	Common	3	1	T12602783

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:10 2017 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-m6Xi1fKqvL2lWVirMee_Vlj0FOSDOHFmgKE2SCyEOOZ

-2-0-0 2-0-0 | 4-0-0 4-0-0 | 8-0-0 4-0-0 | 10-0-0 2-0-0

Scale = 1:22.7



4-0-0 4-0-0 | 8-0-0 4-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-0-4], [4:0-4-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=408/0-3-8, 4=408/0-3-8
Max Horz 2=58(LC 11)
Max Uplift 2=-139(LC 12), 4=-139(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-328/87, 3-4=-328/89
BOT CHORD 2-6=0/254, 4-6=0/254

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 4-0-0, Exterior(2) 4-0-0 to 7-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 4=139.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
Q1526	T2	Common	8	1	T12602784
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:10 2017 Page 1
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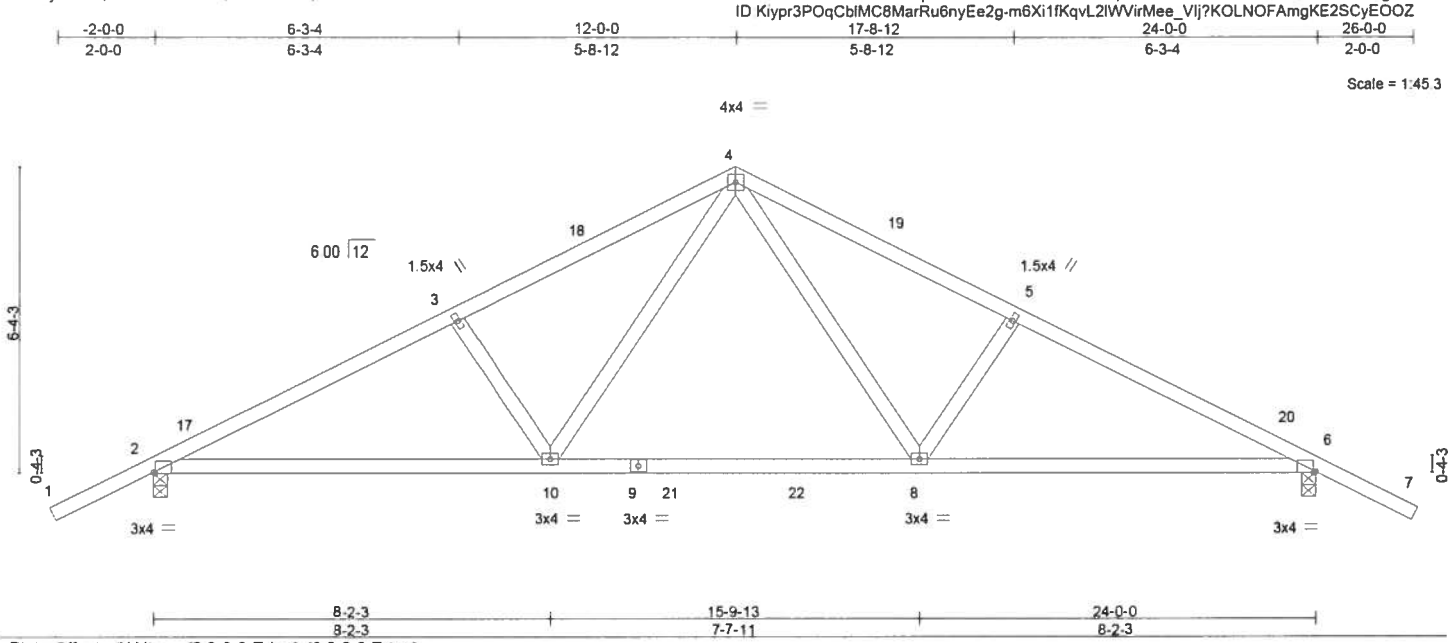

Plate Offsets (X,Y)-- [2:0-0-8,Edge], [6:0-0-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.12	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.19	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1000/0-3-8, 6=1000/0-3-8
Max Horz 2=-135(LC 10)
Max Uplift 2=-243(LC 12), 6=-243(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1525/362, 3-4=-1356/362, 4-5=-1356/362, 5-6=-1525/362
BOT CHORD 2-10=-191/1320, 8-10=-62/870, 6-8=-228/1314
WEBS 4-8=-101/555, 5-8=-327/209, 4-10=-101/555, 3-10=-327/209

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=243, 6=243.

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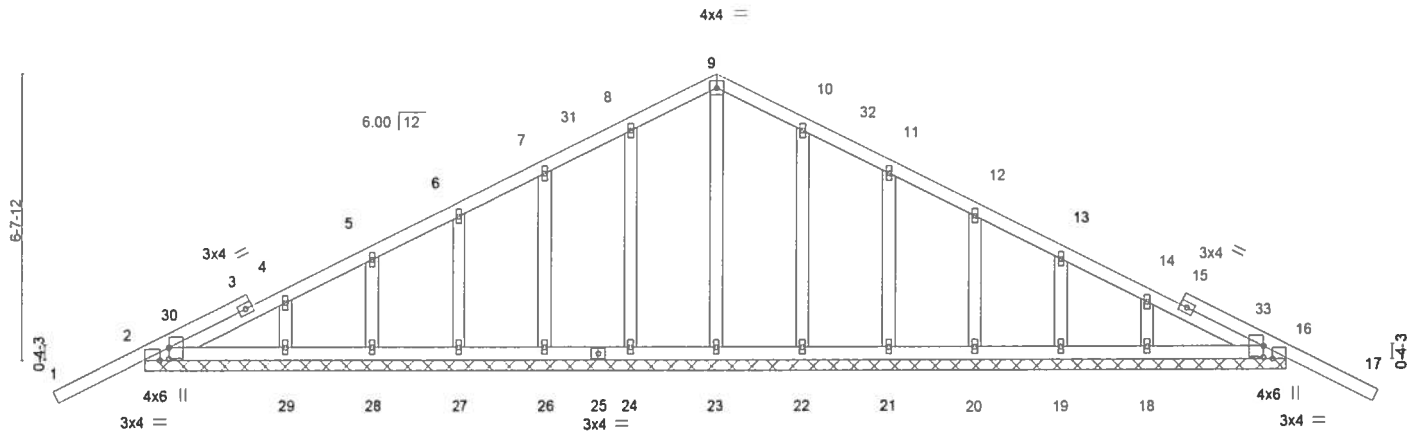
Job	Truss	Truss Type	Qty	Ply	
Q1526	T3	Common Supported Gable	1	1	T12602785
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430,

8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:12 2017 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-jUfSRLL4RylTlprET3gSajoL9C94sBN27ej8W4yEOOX

-2-0-0 2-0-0 | 13-3-0 13-3-0 | 26-6-0 13-3-0 | 28-6-0 2-0-0

Scale = 1:50.9



26-6-0
26-6-0

Plate Offsets (X,Y)-- [2:0-3-1,0-0-0], [2:0-2-8,Edge], [16:0-3-1,0-0-0], [16:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	17	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03	17	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 26-6-0.
(lb) - Max Horz 2=-144(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=-134(LC 12), 16=-134(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except 2=261(LC 1), 16=261(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-84/260, 9-10=-84/266

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-13 to 0-11-3, Exterior(2) 0-11-3 to 13-3-0, Corner(3) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 except (jt=lb) 2=134, 16=134.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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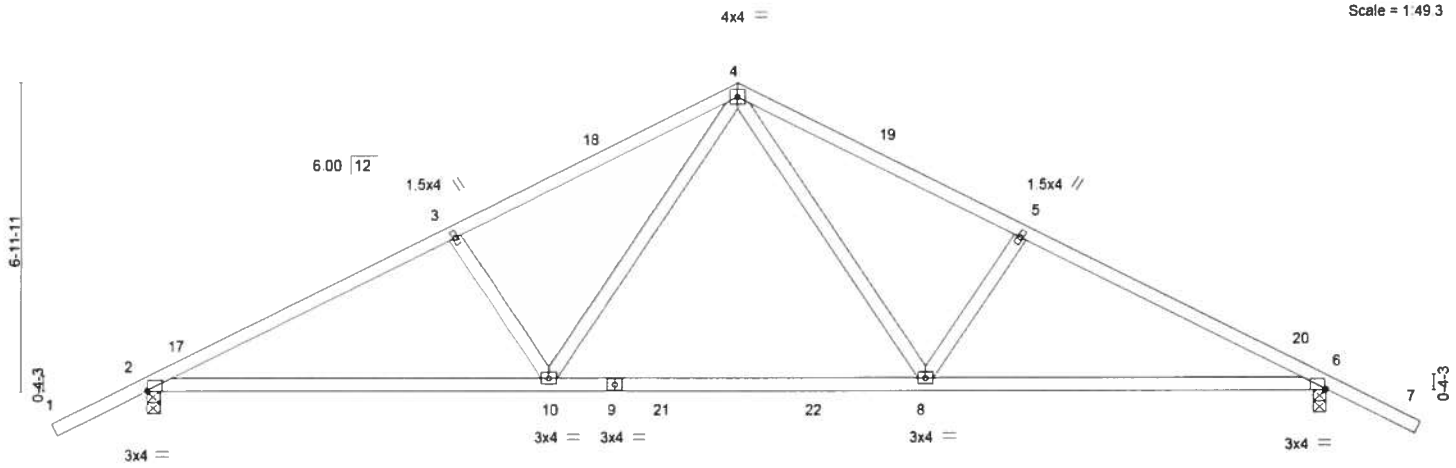
Job	Truss	Truss Type	Qty	Ply	
Q1526	T4	Common	4	1	T12602786
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:12 2017 Page 1
ID:Kiypr3POqCbIMC8MarRu6nyEe2g-jUfSRLL4RyITlprET3gSajoKRC_vs9I27ej8W4yEOOX

-2-0-0 | 6-10-12 | 13-3-0 | 19-7-4 | 26-6-0 | 28-6-0
2-0-0 | 6-10-12 | 6-4-4 | 6-4-4 | 6-10-12 | 2-0-0

Scale = 1:49.3



9-0-3 | 17-5-13 | 26-6-0
9-0-3 | 8-5-11 | 9-0-3

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [6:0-0-4,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.19	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.28	8-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1092/0-3-8, 6=1092/0-3-8
Max Horz 2=150(LC 11)
Max Uplift 2=-260(LC 12), 6=-260(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1698/401, 3-4=-1509/401, 4-5=-1509/401, 5-6=-1698/401
BOT CHORD 2-10=-219/1491, 8-10=-73/967, 6-8=-256/1464
WEBS 4-8=-111/634, 5-8=-365/230, 4-10=-111/634, 3-10=-365/230

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf, h=25ft, B=45ft; L=27ft; eave=4ft, Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-13 to 0-11-3, Interior(1) 0-11-3 to 13-3-0, Exterior(2) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 6=260.

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Job	Truss	Truss Type	Qty	Ply	T12602787
Q1526	T5	Common	1	1	Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:13 2017 Page 1
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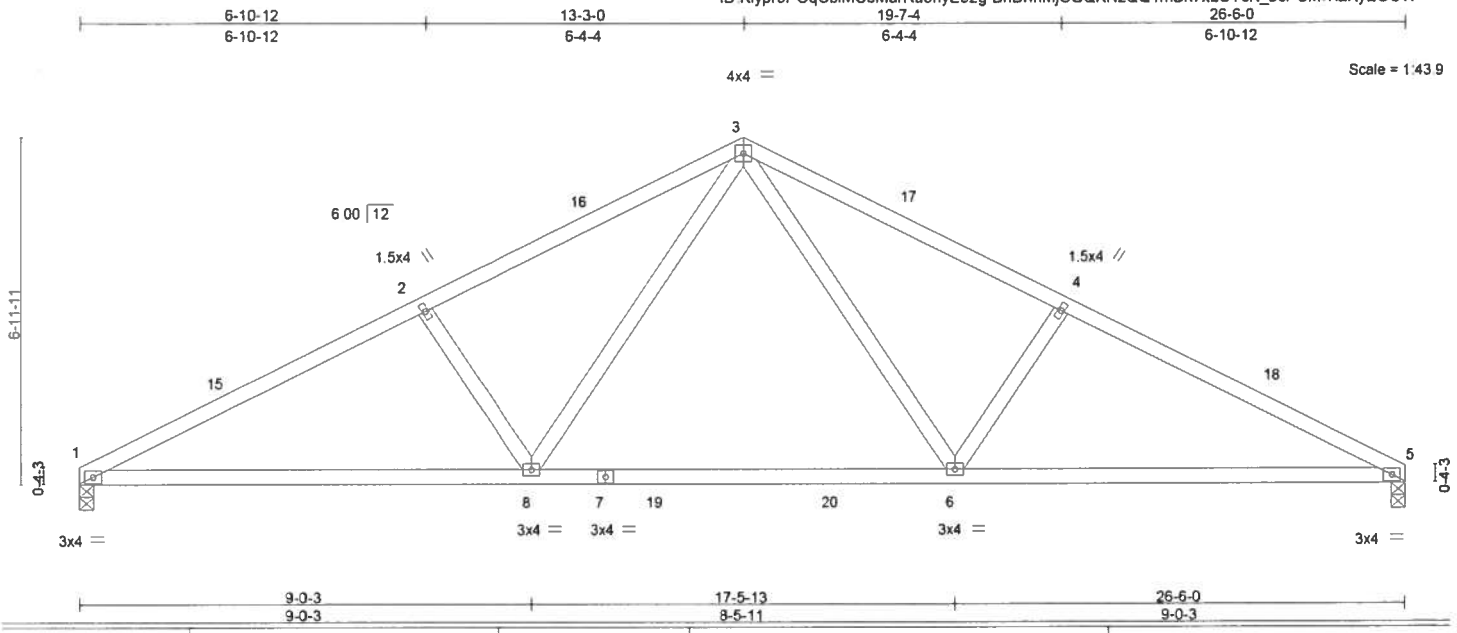

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.19	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.29	6-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=981/0-3-8, 5=981/0-3-8
Max Horz 1=-130(LC 10)
Max Uplift 1=-173(LC 12), 5=-173(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1719/453, 2-3=-1544/453, 3-4=-1544/453, 4-5=-1719/453
BOT CHORD 1-8=-319/1507, 6-8=-128/983, 5-6=-319/1501
WEBS 3-6=-120/653, 4-6=-379/238, 3-8=-120/653, 2-8=-379/238

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 13-3-0, Exterior(2) 13-3-0 to 16-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=173, 5=173.

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Job	Truss	Truss Type	Qty	Ply	
Q1526	T6	Common Girder	1	4	T12602788

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:15 2017 Page 1
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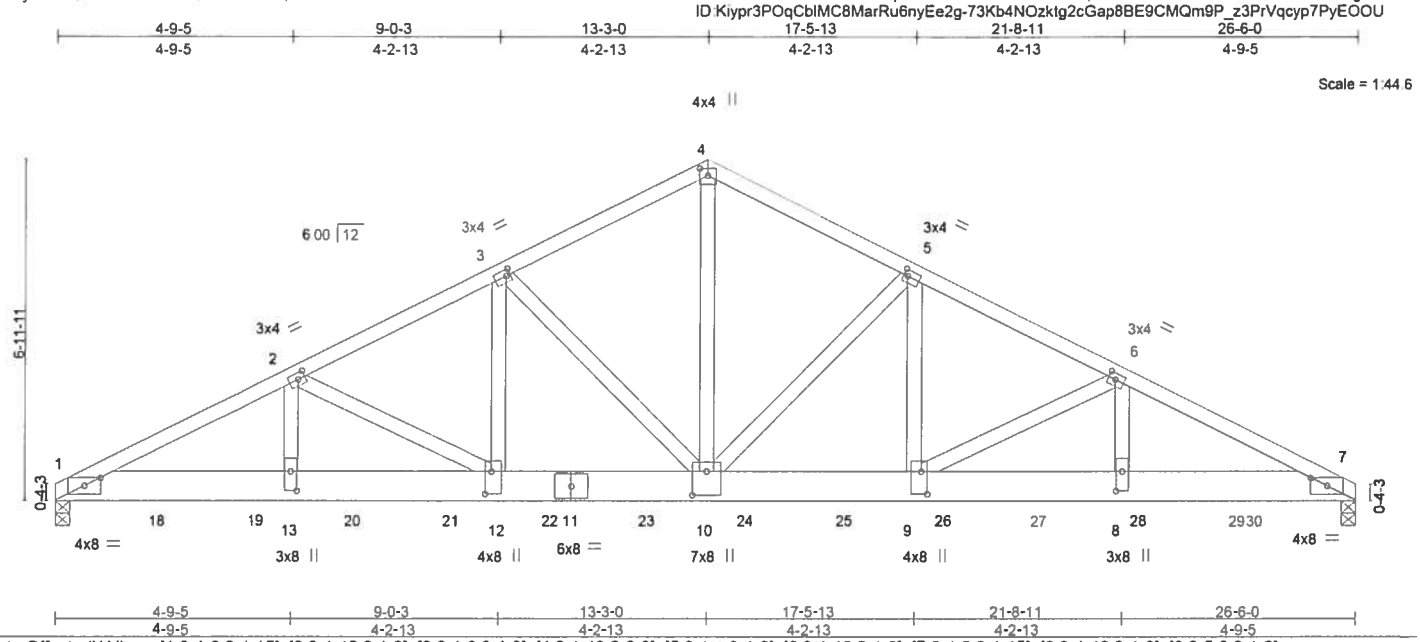

Plate Offsets (X,Y)-- [1:0-4-0,0-1-15], [2:0-1-12,0-1-8], [3:0-1-0,0-1-8], [4:0-1-12,0-2-0], [5:0-1-0,0-1-8], [6:0-1-12,0-1-8], [7:0-4-0,0-1-15], [8:0-4-12,0-1-8], [9:0-5-8,0-1-8], [10:0-5-12,0-3-8], [12:0-5-8,0-1-8], [13:0-4-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.17	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.31	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 729 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x8 SP No.1D
WEBS 2x4 SP No.3 *Except*
4-10: 2x4 SP No.2D

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=10682/0-3-8, 7=11758/0-3-8
Max Horz 1=-129(LC 23)
Max Uplift 1=-1984(LC 8), 7=-2184(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-21178/3949, 2-3=-17231/3246, 3-4=-13238/2543, 4-5=-13237/2543, 5-6=-17434/3284, 6-7=-22215/4143
BOT CHORD 1-13=-3481/18915, 12-13=-3481/18915, 10-12=-2786/15383, 9-10=-2819/15562, 8-9=-3657/19857, 7-8=-3657/19857
WEBS 4-10=-2162/11536, 5-10=-5406/1059, 5-9=-984/5542, 6-9=-4879/951, 6-8=-729/4211, 3-10=-5148/1011, 3-12=-931/5260, 2-12=-4012/789, 2-13=-589/3463

NOTES-
1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-8 2x4 - 2 rows staggered at 0-7-0 oc.
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1984, 7=2184.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1577 lb down and 302 lb up at 2-0-12, 1577 lb down and 302 lb up at 4-0-12, 1577 lb down and 302 lb up at 6-0-12, 1577 lb down and 302 lb up at 8-0-12, 1577 lb down and 302 lb up at 10-0-12, 1577 lb down and 302 lb up at 12-0-12, 1577 lb down and 302 lb up at 14-0-12, 1577 lb down and 302 lb up at 16-0-12, 1577 lb down and 302 lb up at 18-0-12, 1577 lb down and 302 lb up at 20-0-12, 1577 lb down and 302 lb up at 22-0-12, and 1577 lb down and 302 lb up at 24-0-12, and 1577 lb down and 302 lb up at 24-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Job	Truss	Truss Type	Qty	Ply	T12602788
Q1526	T6	Common Girder	1	4	Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:15 2017 Page 2
ID:Kiypr3POqCblMC8MarRu6nyEe2g-73Kb4NOzktg2cGap8BE9CMQm9P_z3PrVqcyp7PyEOOU

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 1-7=-20
   Concentrated Loads (lb)
   Vert: 18=-1577(F) 19=-1577(F) 20=-1577(F) 21=-1577(F) 22=-1577(F) 23=-1577(F) 24=-1577(F) 25=-1577(F) 26=-1577(F) 27=-1577(F) 28=-1577(F) 29=-1577(F) 30=-1577(F)

Job	Truss	Truss Type	Qty	Ply	
Q1526	T7	Roof Special Supported Gable	1	1	T12602789

Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430,

8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:17 2017 Page 1
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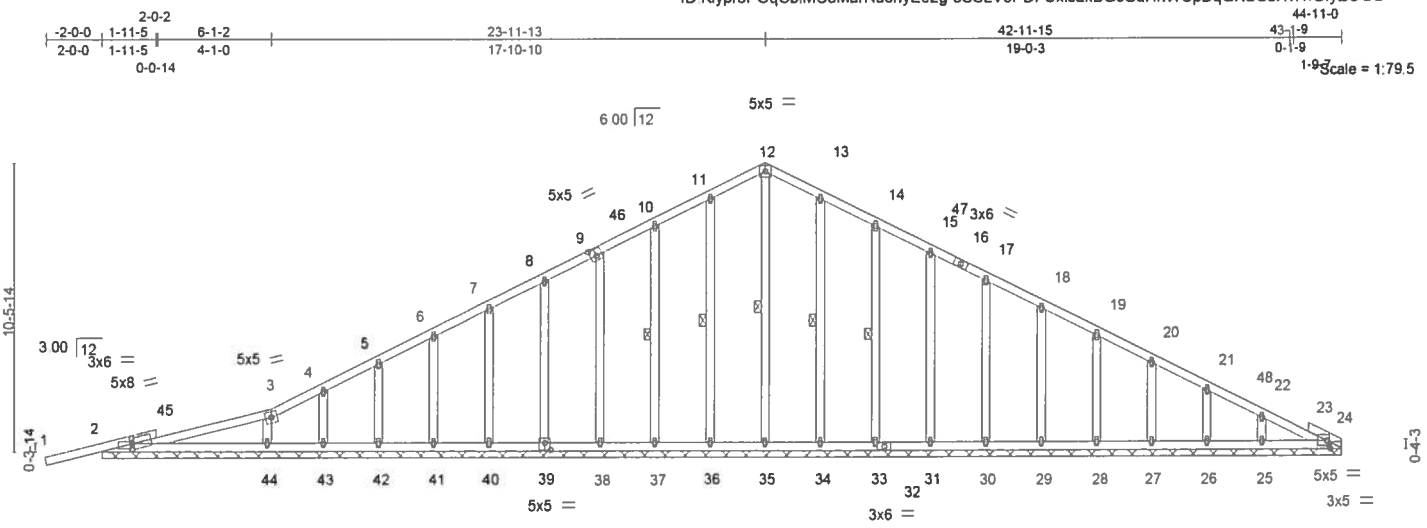

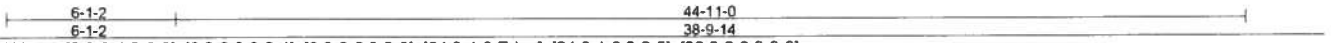

Plate Offsets (X,Y)-- [2.0-0-4,0-2-6], [2.0-0-0,0-2-4], [9.0-2-8,0-3-0], [24.0-1-8,Edge], [24.0-1-0,0-2-5], [39.0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	0.02	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 294 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 2-44.
WEBS 1 Row at midpt 12-35, 11-36, 10-37, 13-34, 14-33

REACTIONS. All bearings 44-11-0.
(lb) - Max Horz 2=235(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 44 except 2=-122(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 35, 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 24 except 2=322(LC 1), 44=399(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-91/287, 10-11=-112/349, 11-12=-129/395, 12-13=-129/391, 13-14=-111/344, 14-15=-91/286
WEBS 3-44=-261/189

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-7 to 2-5-8, Exterior(2) 2-5-8 to 23-11-13, Corner(3) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27, 26, 25, 44 except (jt=lb) 2=122.

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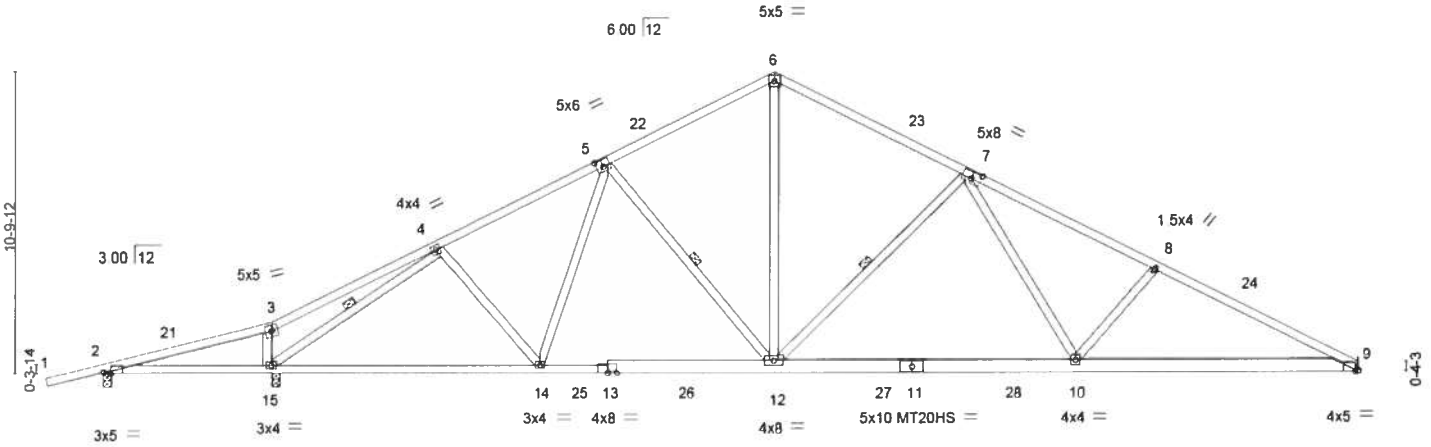
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
Q1526	T8	Roof Special	14	1	T12602790
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:18 2017 Page 1
ID:Kiypr3POqCblMC8MarRu6nyEe2g-Xe0kiOQr0o3cUkJOqJnsq_2IMd_8GI8xWZATkkyEOOR

-2-0-0	5-11-15	11-11-14	17-11-13	23-11-13	30-9-6	37-6-15	44-11-0
2-0-0	5-11-15	5-11-15	5-11-15	5-11-15	6-9-9	6-9-9	7-4-1

Scale = 1:78.5



5-11-15	6-1-12	15-7-1	23-11-13	34-9-6	44-11-0
5-11-15	0-1-13	9-5-5	8-4-11	10-9-9	10-1-10

Plate Offsets (X,Y)-- [2:0-3-4,Edge], [5:0-3-0,0-3-0], [7:0-4-0,0-3-0], [9:0-1-4,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.26	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.49	10-12	>959	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS							Weight: 260 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x6 SP No.2 *Except*
2-13: 2x4 SP No.2D
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-12, 4-15, 5-12

REACTIONS. (lb/size) 2=285/0-3-8, 15=1817/0-3-8, 9=1597/Mechanical
Max Horz 2=241(LC 11)
Max Uplift 2=-134(LC 12), 15=-303(LC 12), 9=-282(LC 12)
Max Grav 2=298(LC 21), 15=1817(LC 1), 9=1599(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-2080/604, 5-6=-1824/617, 6-7=-1827/620, 7-8=-2941/824, 8-9=-3137/849
BOT CHORD 14-15=-378/1867, 12-14=-332/1895, 10-12=-446/2152, 9-10=-655/2739
WEBS 3-15=-311/177, 6-12=-331/1285, 7-12=-904/348, 7-10=-149/857, 8-10=-332/229, 4-15=-2212/548, 5-12=-415/201

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 2-5-8, Interior(1) 2-5-8 to 23-11-13, Exterior(2) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=134, 15=303, 9=282.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-6=-54, 6-9=-54, 12-16=-20, 10-12=-45(F=-25), 9-10=-20

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Job	Truss	Truss Type	Qty	Ply	
Q1526	T9	Roof Special Supported Gable	1	1	T12602791
					Job Reference (optional)

Duley Truss, Dunnellon, FL - 34430, 8.130 s Sep 15 2017 MiTek Industries, Inc. Wed Nov 29 07:32:20 2017 Page 1
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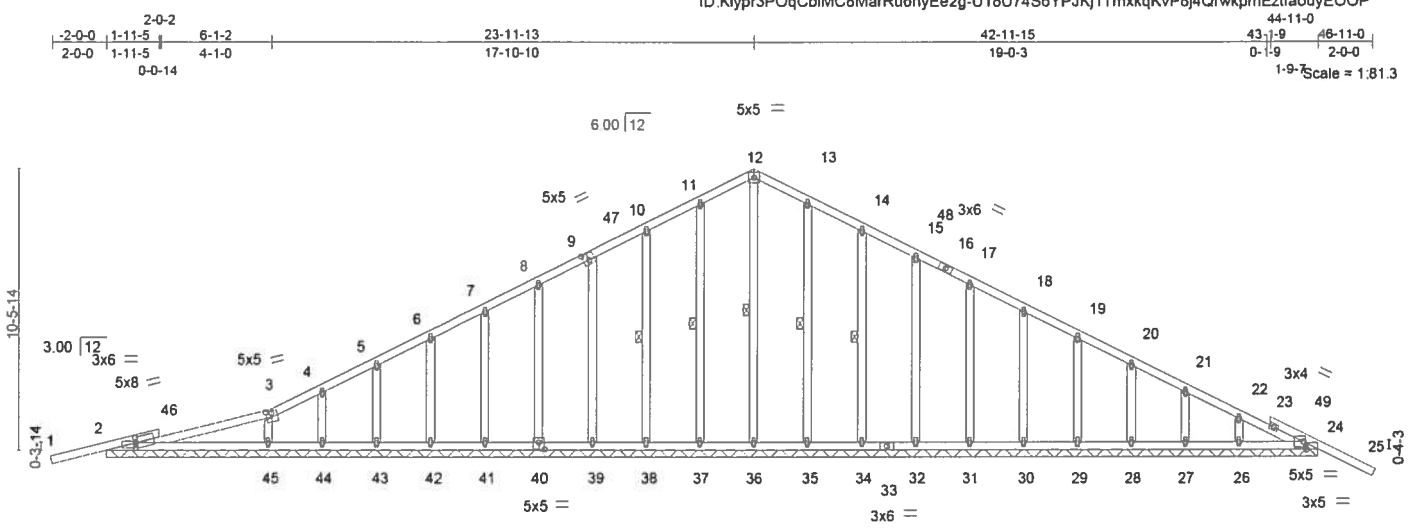

44-11-0
44-11-0

Plate Offsets (X,Y)-- [2:0-0-4,0-2-6], [2:0-0-0,0-2-4], [3:0-2-8,0-1-0], [9:0-2-8,0-3-0], [24:0-1-8,Edge], [24:0-1-0,0-2-9], [40:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.02	25	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-S							Weight: 298 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2D
BOT CHORD 2x4 SP No.2D
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-45.
WEBS 1 Row at midpt 12-36, 11-37, 10-38, 13-35, 14-34

REACTIONS. All bearings 44-11-0.
(lb) - Max Horz 2=240(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except 2=-126(LC 12), 24=-120(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 36, 37, 38, 39, 40, 41, 42, 43, 44, 35, 34, 32, 31, 30, 29, 28, 27, 26 except 2=324(LC 1), 45=400(LC 1), 24=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-103/254, 9-10=-97/307, 10-11=-119/369, 11-12=-136/415, 12-13=-136/422, 13-14=-118/375, 14-15=-98/316, 15-17=-79/261
WEBS 3-45=-260/193

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-7 to 2-5-8, Exterior(2) 2-5-8 to 23-11-13, Corner(3) 23-11-13 to 28-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 2=126, 24=120.

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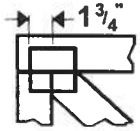
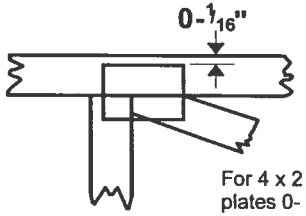
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

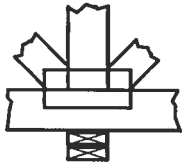
4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION

Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

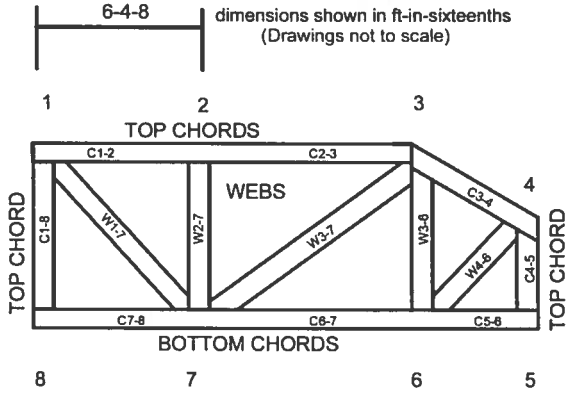


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

HUTTIG®
BUILDING PRODUCTS

Fax Message

To: JEFF
84 LUMBER - GAINESVILLE
Fax: 3523388459

From: Bryan Finck
Central Florida

Date: 11/29/2017 3:23 PM
Pages: 1 of 2 (including this page)
Subject: Acknowledgement for Order Number: 20051639-00 from Huttig

THANK YOU FOR YOUR BUSINESS

HUTTIG® BUILDING PRODUCTS

Huttig Building Products
45150 Highway 27 N

Davenport, FL 33837
(863) 420-7723
Fax: (800) 866-3298

ACKNOWLEDGEMENT

UPC V	ACK DATE	ORDER NO.
000000	11/29/17	20051639-00
PURCHASE ORDER NO		PAGE
79608		1

CUST #: 1714 205z1331

SHIP TO: 84 LUMBER - GAINESVILLE
5083 NW 13TH ST
STORE # 1331
GAINESVILLE, FL 32609-1726

Order Placed By:
Inside Salesperson: Bryan Finck
Order Taken By: Bryan Finck

BILL TO: 84 LUMBER COMPANY
1019 ROUTE 519
A/P DEPT BLDG #4
EIGHTY FOUR, PA 15330-2813

INSTRUCTIONS

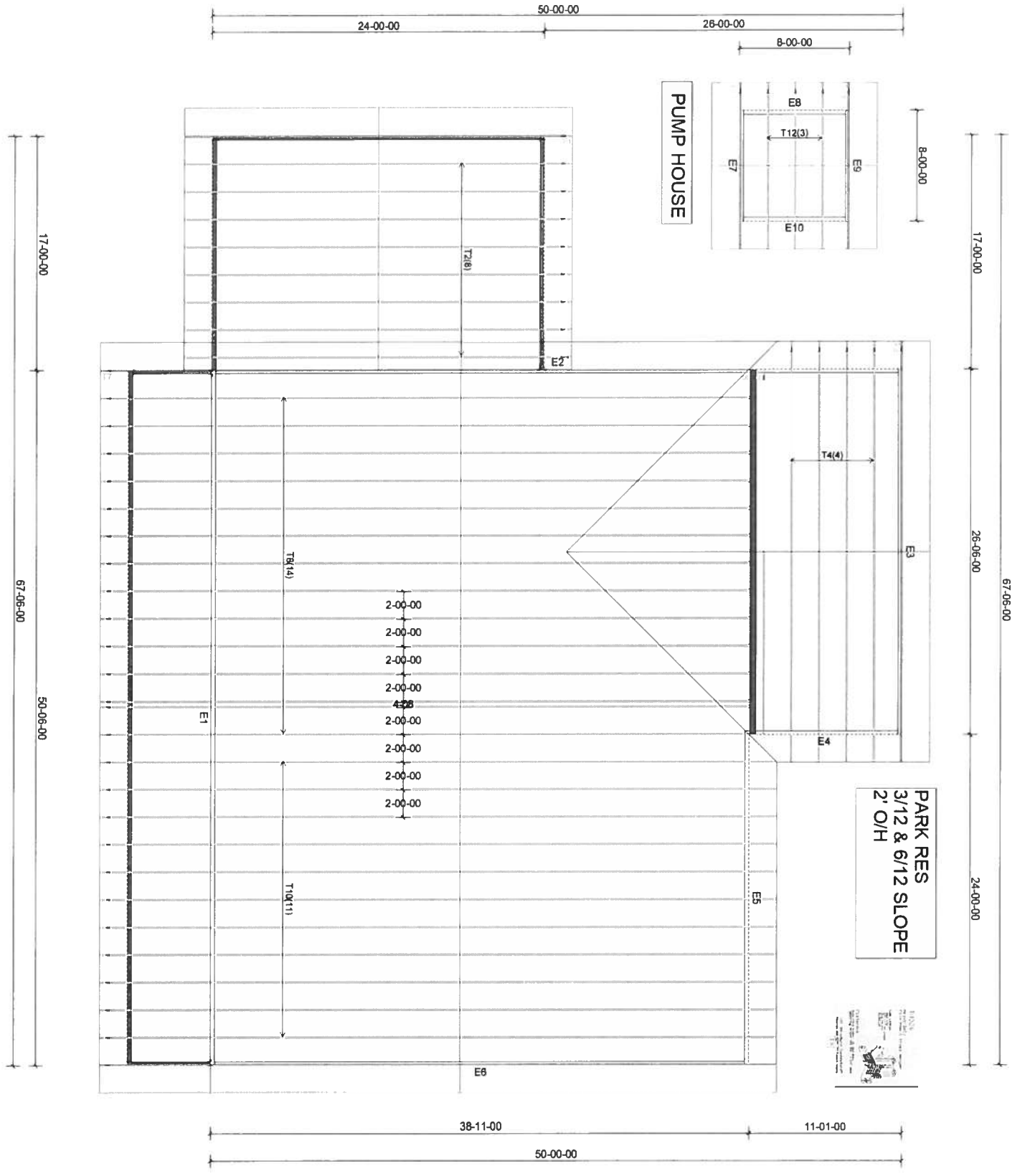
SHIP POINT	SHIP VIA	Promise Date	TERMS
Huttig Building Products	OUR TRUCK	11/30/17	1%53net54

Line No.	Product and Description	QTY Ordered	QTY B.O.	QTY Shipped	U / M	Unit Price	Amount (NET)
1	FI1230808S	2		2	Ea	152.55	305.10
	3080 1-3/8 SSB 12Lt Pine Primed French Dr						
2	AIPSS808RIP	1		1	Ea	23.50	23.50
	Astragal 8-0 RH 1-3/8 Sol Pine Prep For Bolt						
	Vendor Product: ICP-96-ET-RH						

2 Lines Total Qty Shipped Total: 3 Total: 328.60
Total Weight: Total Cubes: Invoice Total: 328.60

****
We know you have a choice and appreciate that you chose us
.....Thank you for this opportunity.....
****

Last Page



JOB NO. **Q1526**	Customer: 84 LUMBER Description: PARKS Designer: Ryan Sherman	Pitch: --- Overhang: ---	PRODUCT APPROVAL NUMBER FL 2197.4 MT20 PLATES MITEK INDUSTRIES, INC.	DULEY TRUSS INC. (352) 465-0964

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	RICHARD AND JOAN PARK	Builder Name:	HARVEY BUILDERS
Street:	979 SOUTHWEST RIVER SIDE AVE	Permit Office:	COLUMBIA COUNTY
City, State, Zip:	, FL ,	Permit Number:	
Owner:	RICHARD AND JOAN PARK	Jurisdiction:	
Design Location:	FL, Gainesville	County::	COLUMBIA (Florida Climate Zone 2)

1. New construction or existing — New (From Plans)
2. Single family or multiple family — Single-family
3. Number of units, if multiple family — 1
4. Number of Bedrooms — 3
5. Is this a worst case? — No
6. Conditioned floor area above grade (ft²) — 2254

   Conditioned floor area below grade (ft²) — 0
7. Windows(217.0 sqft.)

	Description	Area
a. U-Factor:	Dbl, U=0.28	217.00 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		4.876 ft.
Area Weighted Average SHGC:		0.200

8. Floor Types (2254.0 sqft.)

	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (1822.5 sqft.)

	Insulation	Area
a. Frame - Wood, Exterior	R=15.0	1822.50 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (2254.0 sqft.)

	Insulation	Area
a. Cathedral/Single Assembly (Unvented)	R=19.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts

	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	450.8

12. Cooling systems

	kBtu/hr	Efficiency
a. Central Unit	28.8	SEER:14.00

13. Heating systems

	kBtu/hr	Efficiency
a. Electric Heat Pump	28.4	HSPF:8.20

14. Hot water systems

a. Electric		Cap: 50 gallons
		EF: 0.920
b. Conservation features	None	

15. Credits — Pstat

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance PLANS EXAMINER

Glass/Floor Area: 0.096

Total Proposed Modified Loads: 54.71

Total Baseline Loads: 55.41

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

SUNCOAST INSULATORS
Ocala (352) 629-[illegible]
Newberry (352) 472-8595
Crystal River (352) 795-2550
Tavares (352) 343-7999

PREPARED BY: [signature]

DATE: 12-22-2017

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: [signature]

DATE: 12/25/17

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA IN GOD WE TRUST

BUILDING OFFICIAL: ____________________

DATE: ____________________

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.25 ACH50 (R402.4.1.2).

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	RICHARD AND JOAN PARK	Builder Name:	HARVEY BUILDERS
Street:	979 SOUTHWEST RIVER SIDE AVE	Permit Office:	COLUMBIA COUNTY
City, State, Zip:	, FL ,	Permit Number:	
Owner:	RICHARD AND JOAN PARK	Jurisdiction:	
Design Location:	FL, Gainesville	County::	COLUMBIA (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)			
2. Single family or multiple family	Single-family			
3. Number of units, if multiple family	1			
4. Number of Bedrooms	3			
5. Is this a worst case?	No			
6. Conditioned floor area above grade (ft²)	2254			
Conditioned floor area below grade (ft²)	0			
7. Windows(217.0 sqft.)	Description		Area	
a. U-Factor: SHGC:	Dbl, U=0.28 SHGC=0.20		217.00	ft²
b. U-Factor: SHGC:	N/A			ft²
c. U-Factor: SHGC:	N/A			ft²
d. U-Factor: SHGC:	N/A			ft²
Area Weighted Average Overhang Depth:			4.876	ft.
Area Weighted Average SHGC:			0.200	
8. Floor Types (2254.0 sqft.)		Insulation	Area	
a. Slab-On-Grade Edge Insulation		R=0.0	2254.00	ft²
b. N/A		R=		ft²
c. N/A		R=		ft²

9. Wall Types (1822.5 sqft.)	Insulation	Area	
a. Frame - Wood, Exterior	R=15.0	1822.50	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
d. N/A	R=		ft²
10. Ceiling Types (2254.0 sqft.)	Insulation	Area	
a. Cathedral/Single Assembly (Unvented)	R=19.0	2254.00	ft²
b. N/A	R=		ft²
c. N/A	R=		ft²
11. Ducts		R	ft²
a. Sup: Attic, Ret: Attic, AH: Main		6	450.8
12. Cooling systems	kBtu/hr	Efficiency	
a. Central Unit	28.8	SEER:14.00	
13. Heating systems	kBtu/hr	Efficiency	
a. Electric Heat Pump	28.4	HSPF:8.20	
14. Hot water systems			
a. Electric		Cap: 50 gallons	
		EF: 0.920	
b. Conservation features			
None			
15. Credits		Pstat	

Glass/Floor Area: 0.096

Total Proposed Modified Loads: 54.71

Total Baseline Loads: 55.41

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: _____

SUNCOAST INSULATORS
Ocala (352) 629-0015
Newberry (352) 472-8595
Crystal River (352) 795-2566
Tavares (352) 343-7999

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____

- **Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.**
- **Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.25 ACH50 (R402.4.1.2).**

FORM R405-2017

PROJECT

Title:	RICHARD AND JOAN PARK	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2254	Lot #	
Owner Name:	RICHARD AND JOAN PARK	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	HARVEY BUILDERS	Rotate Angle:	0	Street:	979 SOUTHWEST RIV
Permit Office:	COLUMBIA COUNTY	Cross Ventilation:		County:	COLUMBIA
Jurisdiction:		Whole House Fan:		City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

√	Design Location	TMY Site	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2254	20286

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2254	20286	Yes	2	3	1	Yes	Yes	Yes

FLOORS

√	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
____	1	Slab-On-Grade Edge Insulatio	Main	199.62 ft	0	2254 ft²	___	0	0	1

ROOF

√	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
____	1	Hip	Metal	2521 ft²	0 ft²	Medium	0.96	No	0.9	No	19	26.6

ATTIC

√	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
____	1	Full attic	Unvented	0	2254 ft²	N	N

CEILING

√	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
____	1	Cathedral/Single Assembly (Unvented	Main	19	Blown	2254 ft²	0.11	Wood

FORM R405-2017

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
____	1	W	Exterior	Frame - Wood	Main	15	50	6	9		454.5 ft²		0	0.75	0
____	2	E	Exterior	Frame - Wood	Main	15	50	6	9		454.5 ft²		0	0.75	0
____	3	S	Exterior	Frame - Wood	Main	15	49	21	9		456.8 ft²		0	0.75	0
____	4	N	Exterior	Frame - Wood	Main	15	49	21	9		456.8 ft²		0	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
_____	1	W	Wood	Main	None	.46	3		6	8	20 ft²
_____	2	W	Wood	Main	None	.46	3		6	8	20 ft²
_____	3	E	Wood	Main	None	.46	3		6	8	20 ft²
_____	4	E	Wood	Main	None	.46	3		6	8	20 ft²
_____	5	N	Wood	Main	None	.46	3		6	8	20 ft²
_____	6	N	Wood	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

√	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Overhang Separation	Int Shade	Screening
_____	1	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	12.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	2	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	12.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	3	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	20.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	4	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	20.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	5	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	20.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	6	W	1	Vinyl	Low-E Double	Yes	0.28	0.2	N	20.0 ft²	8 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	7	E	2	Vinyl	Low-E Double	Yes	0.28	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	8	E	2	Vinyl	Low-E Double	Yes	0.28	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	9	E	2	Vinyl	Low-E Double	Yes	0.28	0.2	N	6.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	10	E	2	Vinyl	Low-E Double	Yes	0.28	0.2	N	20.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	11	S	3	Vinyl	Low-E Double	Yes	0.28	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	12	S	3	Vinyl	Low-E Double	Yes	0.28	0.2	N	6.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	13	S	3	Vinyl	Low-E Double	Yes	0.28	0.2	N	6.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	14	N	4	Vinyl	Low-E Double	Yes	0.28	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1
_____	15	N	4	Vinyl	Low-E Double	Yes	0.28	0.2	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 1

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed SLA	.0003	1773.7	97.37	183.12	.231	5.246

FORM R405-2017

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
_____	1	Electric Heat Pump/	None	HSPF:8.2	28.4 kBtu/hr	1	sys#1

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
_____	1	Central Unit/	None	SEER: 14	28.8 kBtu/hr	960 cfm	0.75	1	sys#1

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
_____	1	Electric	None	Main	0.92	50 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

√	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
_____	None	None			ft²		

DUCTS

√	#	Supply Location	Supply R-Value	Supply Area	Return Location	Return Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	HVAC # Cool
_____	1	Attic	6	450.8 ft	Attic	112.7 ft	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cooling	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[X]	[X]	[ ]	[ ]	[ ]
Heating	[X]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]
Venting	[ ]	[ ]	[X]	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[X]	[ ]

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation
Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

- ☐ *This checklist*
- ☐ *A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO for the Performance Method:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☐ *A completed Envelope Leakage Test Report (usually one page)*
- ☐ *If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)*

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name:	RICHARD AND JOAN PARK	Builder Name:	HARVEY BUILDERS
Street:	979 SOUTHWEST RIVER SIDE AVE	Permit Office:	COLUMBIA COUNTY
City, State, Zip:	, FL ,	Permit Number:	
Owner:	RICHARD AND JOAN PARK	Jurisdiction:	
Design Location:	FL, Gainesville		

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.	
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.	
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

FORM R405-2017

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

The lower the EnergyPerformance Index, the more efficient the home.

979 SOUTHWEST RIVER SIDE AVE, , FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		2254
7. Windows**	Description	Area
a. U-Factor: SHGC:	Dbl, U=0.28 SHGC=0.20	217.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
Area Weighted Average Overhang Depth:		4.876 ft.
Area Weighted Average SHGC:		0.200

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=15.0	1822.50 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Cathedral/Single Assembly (Unvented)	R=19.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	450.8

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.8	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	28.4	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 50 gallons EF: 0.92
b. Conservation features None	
15. Credits	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Email EnergyGauge tech support at techsupport@energygauge.com or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

FORM R405-2017

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

The lower the EnergyPerformance Index, the more efficient the home.

979 SOUTHWEST RIVER SIDE AVE, , FL,

1. New construction or existing		New (From Plans)
2. Single family or multiple family		Single-family
3. Number of units, if multiple family		1
4. Number of Bedrooms		3
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		2254

7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.28	217.00 ft²
SHGC:	SHGC=0.20	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		4.876 ft.
Area Weighted Average SHGC:		0.200

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=15.0	1822.50 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Cathedral/Single Assembly (Unvented)	R=19.0	2254.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²
a. Sup: Attic, Ret: Attic, AH: Main	6	450.8

12. Cooling systems	kBtu/hr	Efficiency
a. Central Unit	28.8	SEER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Electric Heat Pump	28.4	HSPF:8.20

14. Hot water systems	
a. Electric	Cap: 50 gallons
	EF: 0.92
b. Conservation features	
None	

15. Credits	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Email EnergyGauge tech support at techsupport@energygauge.com or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Florida Building Code, Energy Conservation, 6th Edition (2017)
Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:	979 SOUTHWEST RIVER SIDE AVE , FL ,	Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

SECTION R401 GENERAL

R401.3 Energy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls.

R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system.

R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

R403.3.2 Sealing (Mandatory) All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.

R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

MANDATORY REQUIREMENTS - (Continued)

R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

R403.5.6 Water heater efficiencies (Mandatory).

R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).

R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.

R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.

R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:

1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
2. Be installed at an orientation within 45 degrees of true south.

R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.

R403.6.2 Ventilation air. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment (Mandatory).

R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY [a] (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min. a. When tested in accordance with HVI Standard 916

MANDATORY REQUIREMENTS - (Continued)

R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
2. A variable capacity system sized for optimum performance during base load periods is utilized.

R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

R403.10 Pools and permanent spa energy consumption (Mandatory). The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.

R403.11 Portable spas (Mandatory). The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

Exception: Low-voltage lighting.

R404.1.1 Lighting equipment (Mandatory). Fuel gas lighting systems shall not have continuously burning pilot lights.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Envelope Leakage Test Report
Performance Method

Project Name:	RICHARD AND JOAN PARK	Builder Name:	HARVEY BUILDERS
Street:	979 SOUTHWEST RIVER SIDE AVE	Permit Office:	COLUMBIA COUNTY
City, State, Zip:	, FL ,	Permit Number:	
Design Location:	FL, Gainesville	Jurisdiction:	
Cond. Floor Area::	2254 sq.ft.	Cond. Volume:	20286 cu ft.

Envelope Leakage Test Results

Regression Data:

C: _____ n: _____ R: _____

Single or Multi Point Test Data

	HOUSE PRESSURE	FLOW:
1	Pa	cfm
2	Pa	cfm
3	Pa	cfm
4	Pa	cfm
5	Pa	cfm
6	Pa	cfm

Leakage Characteristics

Required ACH(50) from FORM R405-2017 : _____

Tested ACH(50) * : _____

*Tested leakage must be less than or equal to the required ACH(50) shown on Form R405-2017 for this building. If the tested ACH(50) is less than 3 the building must have a mechanical ventilation system.

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour in Climate Zones 1 and 2 ... Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures;
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures;
3. Interior doors, if installed at the time of the test, shall be open;
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed;
5. Heating and cooling systems, if installed at the time of the test, shall be turned off; and
6. Supply and return registers, if installed at the time of the test, shall be fully open.

I hereby certify that the above envelope leakage performance results demonstrate compliance with Florida Energy Code requirements in accordance with Section R402.4.1.2.

SIGNATURE: _____

PRINTED NAME: _____

DATE: _____

Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the third party conducting the test and provided to the code official.

BUILDING OFFICIAL: _____

DATE: _____

Load Short Form
Entire House
Bounds Heating & Air

Job:
Date: Dec 12, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Park, Harvey Construction

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	68	Construction quality	Tight
Design TD (°F)	37	24	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	30	50		
Moisture difference (gr/lb)	10	61		

HEATING EQUIPMENT

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Model	CH14NB0300000A0
AHRI ref	9162306

Efficiency	8.2 HSPF	
Heating input		
Heating output	28400	Btuh @ 47°F
Temperature rise	27	°F
Actual air flow	960	cfm
Air flow factor	0.040	cfm/Btuh
Static pressure	0.50	in H2O
Space thermostat		

Capacity balance point = 34 °F

Backup: n/a n/a
Input = 0 kW, Output = 0 Btuh, 100 AFUE

COOLING EQUIPMENT

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Cond	CH14NB0300000A0
Coil	FX4DNB031L
AHRI ref	9162306

Efficiency	12.0 EER, 14.5 SEER	
Sensible cooling	20160	Btuh
Latent cooling	8640	Btuh
Total cooling	28800	Btuh
Actual air flow	960	cfm
Air flow factor	0.055	cfm/Btuh
Static pressure	0.50	in H2O
Load sensible heat ratio	0.78	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedroom 2	324	5993	4379	239	243
Laundry	86	185	617	7	34
Bath 2	74	961	514	38	28
Bedroom 3	185	2722	1858	109	103
Master bath	140	1120	921	45	51
Masterbedroom	240	3377	2031	135	112
Bath 3	86	685	287	27	16
Living/Kitchen	1076	9021	6726	360	372
pantry	42	0	0	0	0

COLUMBIA COUNTY BUILDING DEPARTMENT
Received
FILE COPY
Code Compliance
PLANS EXAMINER

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	d	2254	24064	17333	960	960
Other equip loads			3923	2573		
Equip. @ 0.97 RSM				19309		
Latent cooling				5715		
TOTALS		2254	27987	25024	960	960

Project Summary
Entire House
Bounds Heating & Air

Job:
Date: Dec 12, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Park, Harvey Construction

Notes:

Design Information

Weather: Gainesville Regional AP, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	68 °F
Design TD	24 °F
Daily range	M
Relative humidity	50 %
Moisture difference	61 gr/lb

Heating Summary

Structure	24064 Btuh
Ducts	0 Btuh
Central vent (98 cfm) Outside air	3923 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	27987 Btuh

Sensible Cooling Equipment Load Sizing

Structure	17333 Btuh
Ducts	0 Btuh
Central vent (98 cfm) Outside air	2573 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	19309 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	2254	2254
Volume (ft³)	20282	20282
Air changes/hour	0.11	0.06
Equiv. AVF (cfm)	37	20

Latent Cooling Equipment Load Sizing

Structure	1643 Btuh
Ducts	0 Btuh
Central vent (98 cfm) Outside air	4073 Btuh
Equipment latent load	5715 Btuh
Equipment Total Load (Sen+Lat)	25024 Btuh
Req. total capacity at 0.70 SHR	2.3 ton

Heating Equipment Summary

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Model	CH14NB0300000A0
AHRI ref	9162306

Efficiency	8.2 HSPF
Heating input	
Heating output	28400 Btuh @ 47°F
Temperature rise	27 °F
Actual air flow	960 cfm
Air flow factor	0.040 cfm/Btuh
Static pressure	0.50 in H2O
Space thermostat	

Capacity balance point = 34 °F

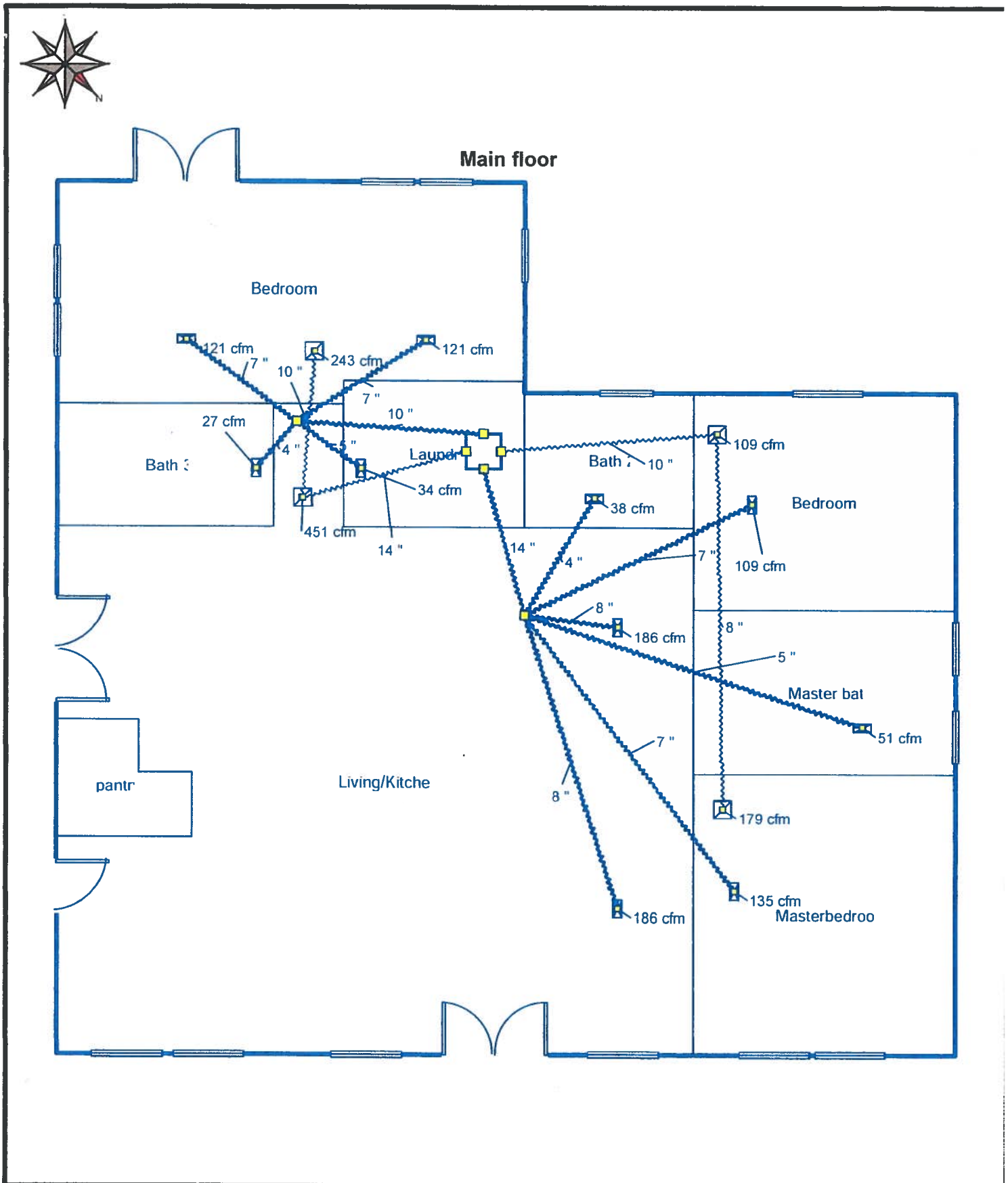
Backup: n/a n/a
Input = 0 kW, Output = 0 Btuh, 100 AFUE

Cooling Equipment Summary

Make	Carrier
Trade	CARRIER AIR CONDITIONING
Cond	CH14NB0300000A0
Coil	FX4DNB031L
AHRI ref	9162306

Efficiency	12.0 EER, 14.5 SEER
Sensible cooling	20160 Btuh
Latent cooling	8640 Btuh
Total cooling	28800 Btuh
Actual air flow	960 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.78

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Job #: **Performed by Joe Mullins for:** Park	**Bounds Heating & Air** 25645 West Newberry Road Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809	Scale: 1 : 86 Page 1 Comfort Builder by Wrightsoft 17.0.23 RSU01870 2017-Dec-18 09:50:25 ...017 J&D\Harvey\Harvey - Park.rup

Duct System Summary
Entire House
Bounds Heating & Air

Job:
Date: Dec 12, 2017
By: Joe Mullins

25645 West Newberry Road, Newberry, Fl. 32669 Phone: 352-472-2761 Fax: 352-472-1809

Project Information

For: Park, Harvey Construction

	Heating	Cooling
External static pressure	0.50 in H2O	0.50 in H2O
Pressure losses	0.23 in H2O	0.23 in H2O
Available static pressure	0.27 in H2O	0.27 in H2O
Supply / return available pressure	0.160 / 0.110 in H2O	0.160 / 0.110 in H2O
Lowest friction rate	0.134 in/100ft	0.134 in/100ft
Actual air flow	960 cfm	960 cfm
Total effective length (TEL)	201 ft	

Supply Branch Detail Table

Name		Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath 2	h	961	38	28	0.150	4.0	0x 0	VlFx	16.4	90.0	st2
Bath 3	h	685	27	16	0.153	4.0	0x 0	VlFx	14.2	90.0	st1
Bedroom 2-A	c	2190	120	121	0.146	7.0	0x 0	VlFx	19.4	90.0	st1
Bedroom 2-B	c	2190	120	121	0.147	7.0	0x 0	VlFx	18.6	90.0	st1
Bedroom 3	h	2722	109	103	0.141	7.0	0x 0	VlFx	23.1	90.0	st2
Laundry	c	617	7	34	0.152	5.0	0x 0	VlFx	15.2	90.0	st1
Living/Kitchen	c	3363	180	186	0.137	8.0	0x 0	VlFx	26.2	90.0	st2
Living/Kitchen-A	c	3363	180	186	0.153	8.0	0x 0	VlFx	14.0	90.0	st2
Master bath	c	921	45	51	0.134	5.0	0x 0	VlFx	29.0	90.0	st2
Masterbedroom	h	3377	135	112	0.135	7.0	0x 0	VlFx	28.4	90.0	st2

Supply Trunk Detail Table

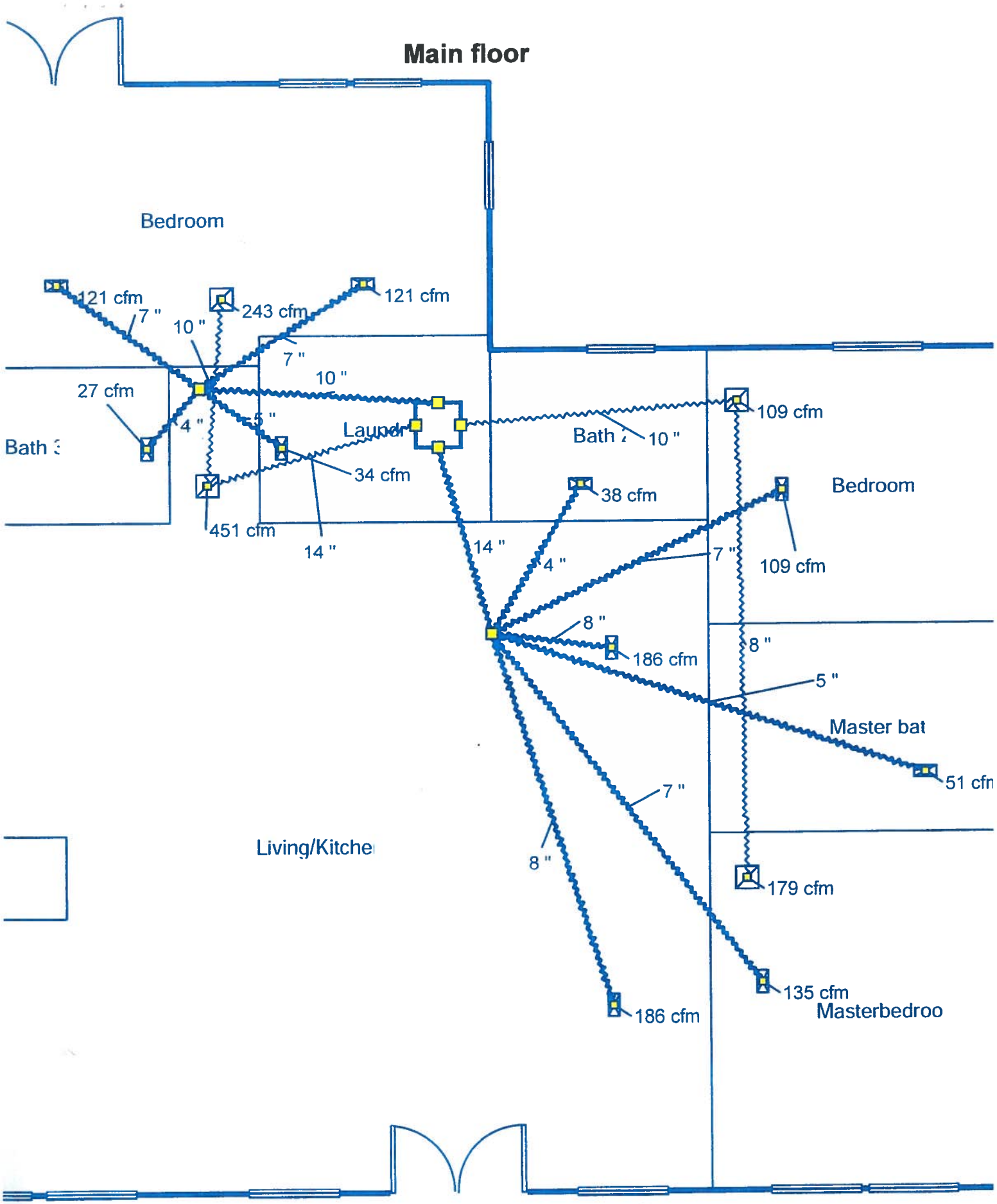
Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	274	293	0.146	537	10.0	0 x 0	VinlFlx	
st2	Peak AVF	686	667	0.134	642	14.0	0 x 0	VinlFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb4	0x 0	179	163	63.7	0.173	514	8.0	0x 0		VlFx	rt1
rb2	0x 0	239	243	48.1	0.230	445	10.0	0x 0		VlFx	rt2
rb1	0x 0	433	451	49.7	0.222	574	12.0	0x 0		VlFx	rt2
rb3	0x 0	109	103	82.4	0.134	406	7.0	0x 0		VlFx	rt1

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	288	266	0.134	528	10.0	0 x 0	VinlFlx	
rt2	Peak AVF	672	694	0.222	649	14.0	0 x 0	VinlFlx	


Main floor
Bedroom
121 cfm
7 "
10 "
243 cfm
121 cfm
7 "
10 "
27 cfm
4 "
5 "
Laund
Bath 3
34 cfm
451 cfm
14 "
Bath 2
10 "
109 cfm
38 cfm
Bedroom
14 "
4 "
7 "
109 cfm
8 "
186 cfm
8 "
5 "
Master bat
51 cfm
7 "
Living/Kitche
8 "
179 cfm
135 cfm
Masterbedroo
186 cfm

R:\Clients\Thermo Tru PERMANENT\Florida Product Approvals\FL-17540 ThermaTru Benchmark HVHZ\C - Drawings\FL 17540 (2014)\Current\FL-17540.1-2.dwg, FL-17540.1

FL#17540.1

THERMA TRU
Benchmark Doors
118 INDUSTRIAL DR., EDGERTON, OH 43517

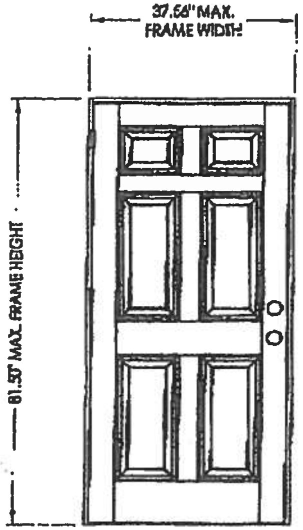
"Smooth Surface" and "Wood Grain"

FIBERGLASS DOOR
INSWING / OUTSWING
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection, this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and Section 1609.1.2.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS



DOOR TYPE	SWING	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
"Smooth Surface" & "Wood Grain"	INSWING	37.56" x 81.50"	+67.0	-67.0
	OUTSWING	37.56" x 80.50"	+67.0	-67.0

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

Documents Prepared by:
Lyndon F. Schmidt
P.E. No. 43409

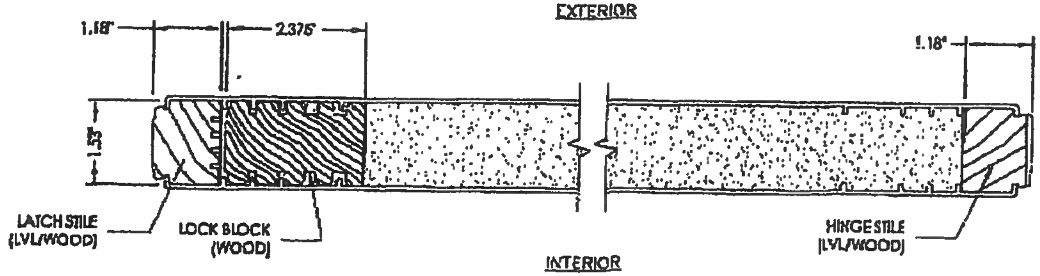
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: FIBERGLASS DOOR

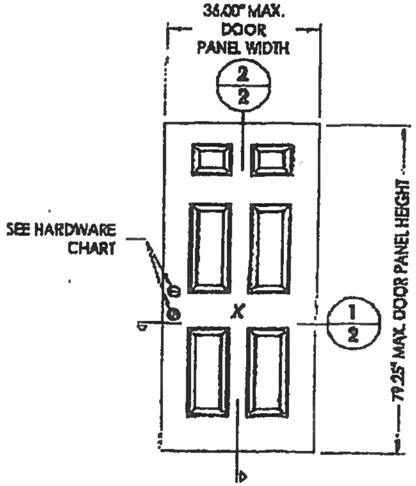
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY

DATE: 4/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.1
SHEET 1 OF 6

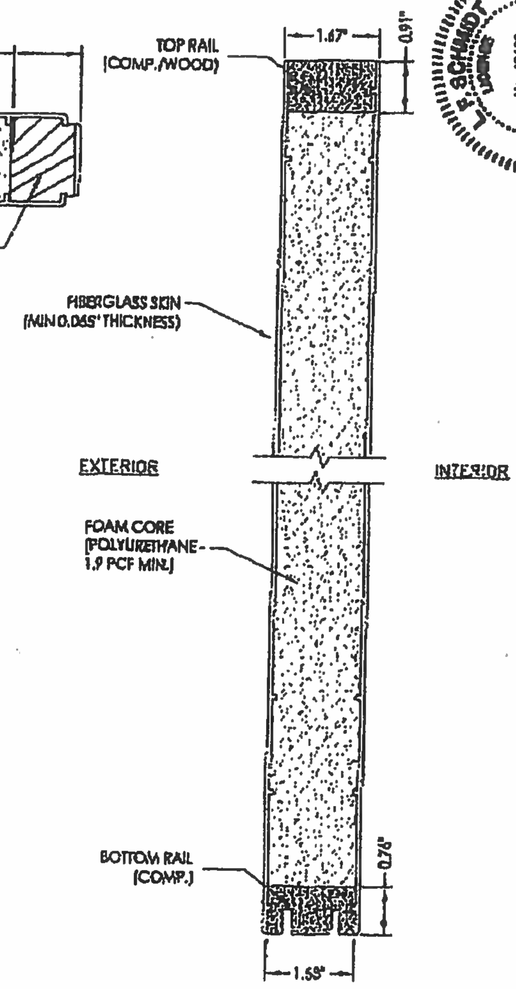


1/2 HORIZONTAL CROSS SECTION



40 DOOR PANEL

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (780)
SCHLAGE	KNOB: "F" SERIES (F10) DEADBOLT: "B" SERIES (B60/62)



2/2 VERTICAL CROSS SECTION

Documents Prepared By:
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L.F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

REVISIONS		
NO	DATE	BY

DATE: 4/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.1
SHEET 2 OF 8

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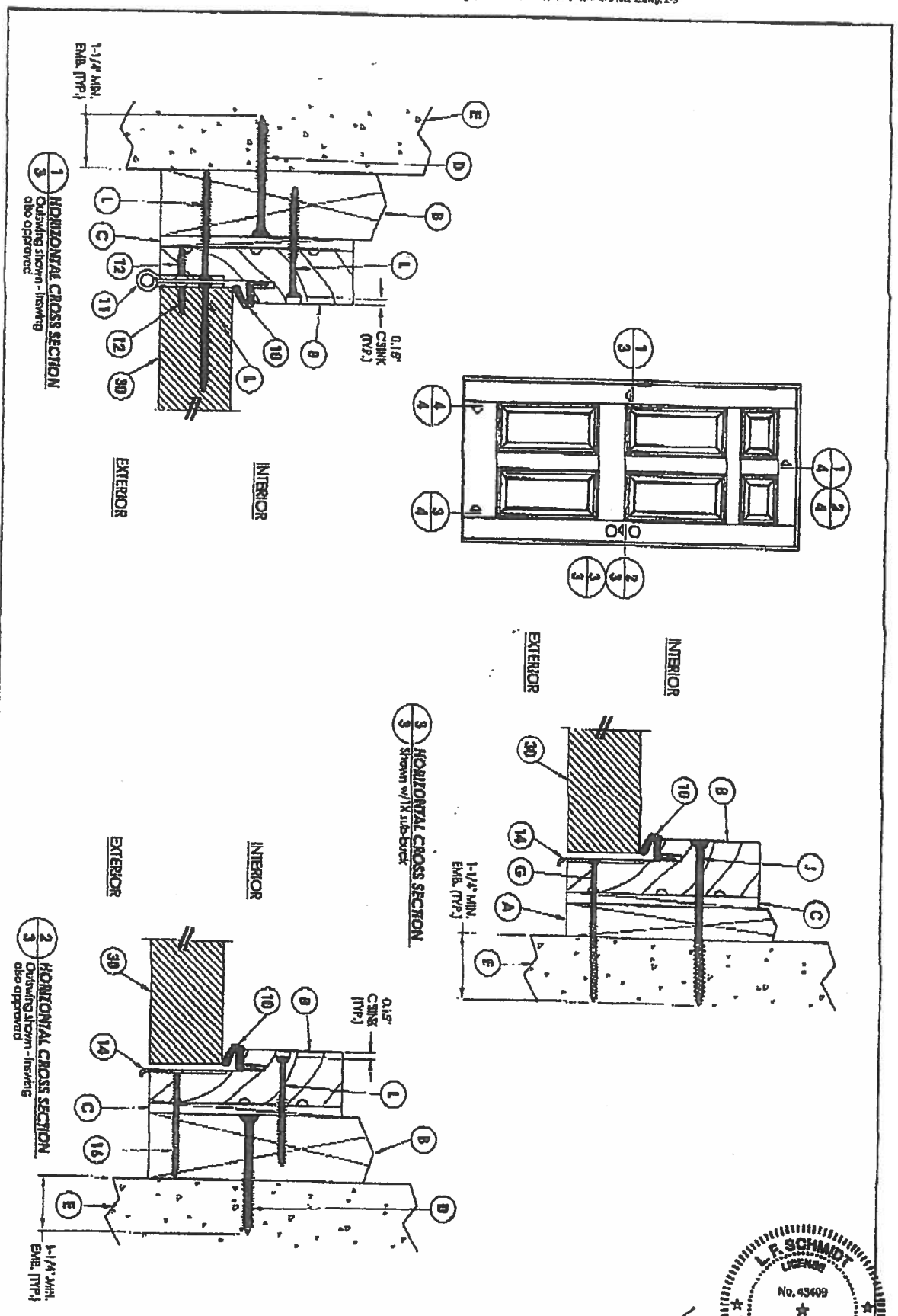

L.F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

5/1/15

NO.	DATE	REVISIONS	BY

DATE: 4/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.1
SHEET 3 OF 6

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
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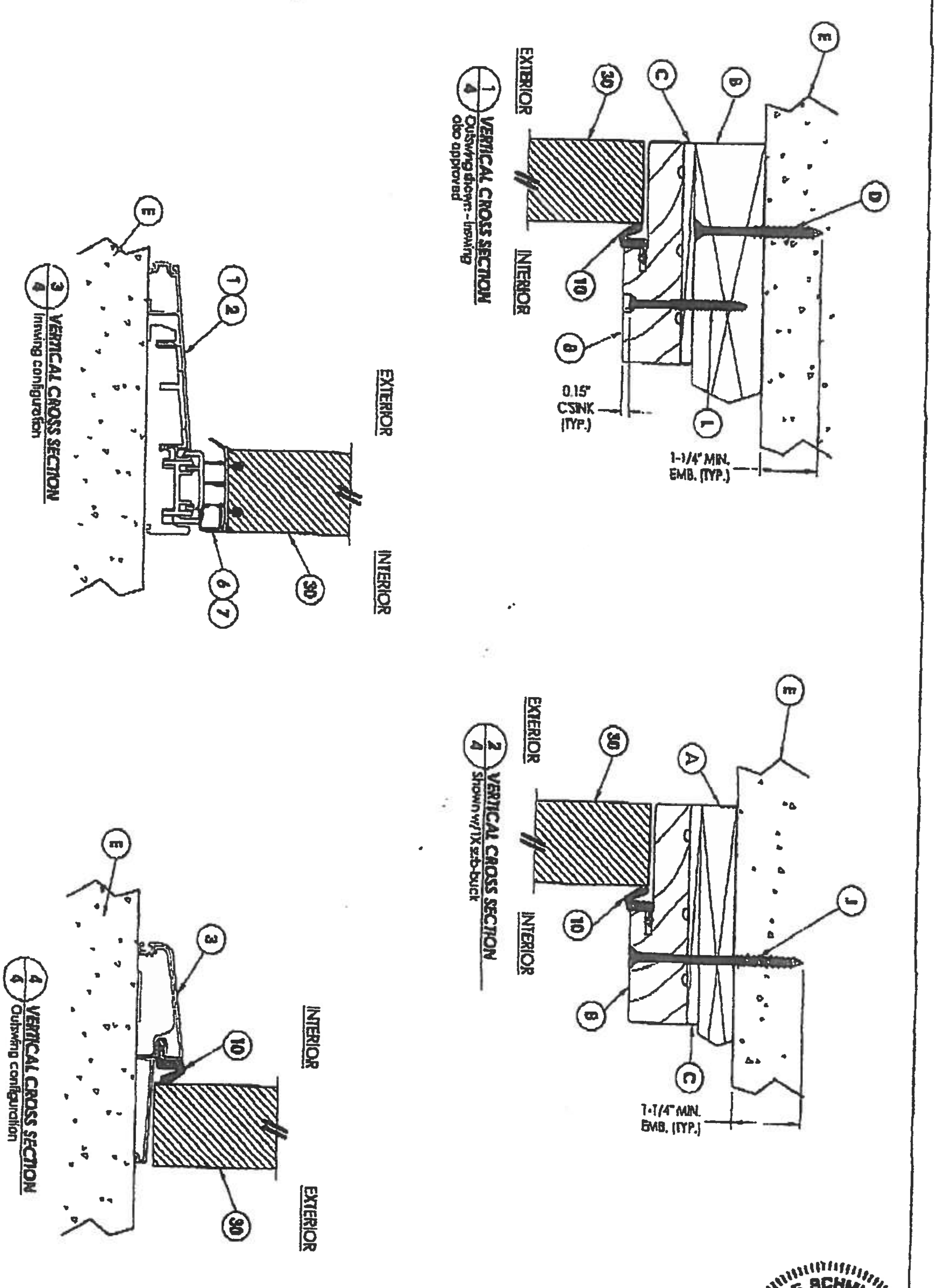
FBPE C.A. No. 9813

R:\Clients\Therma Tru PERMANENT\Florida Product Approvals\FL-17540 ThermaTru Benchmark HVHZ\C - Drawings\FL 17540 (2014)\Current\FL-17540.1-2.dwg, 1-4



SHEET	4 OF 8
DRAWING NO.:	FL-17540.1
CHK. BY:	LFS
DRN. BY:	JK
SCALE:	N.T.S.
DATE:	4/28/15

NO.	DATE	REVISIONS	BY

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

LFS 5-4-15

CONCRETE ANCHOR NOTES:

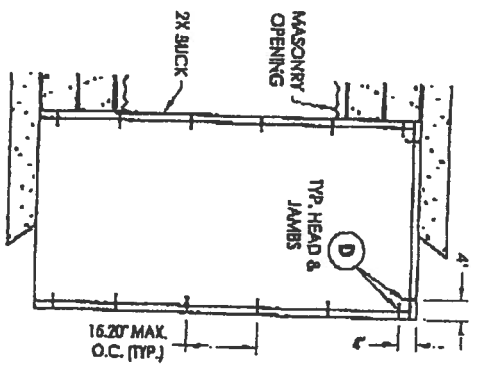
1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joint.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joint, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON[3]	1/4"	1-1/4"	2"	4"
ELCO ULTRACON[4]	1/4"	1-1/4"	1"	4"
ITW TAPCON[3]	3/16"	1-1/4"	3"	1-1/2"

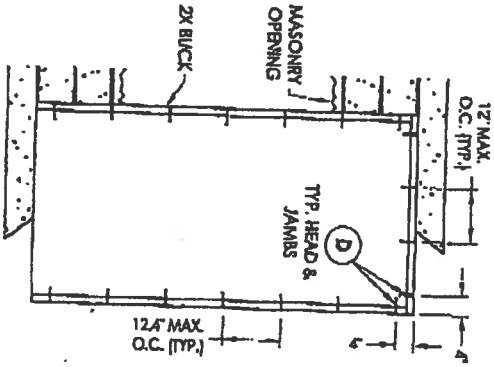
WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 3/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

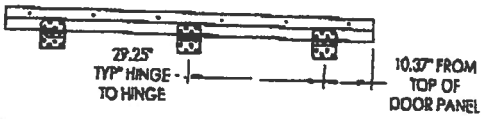
BUCK ANCHORING
DP <= 50 psf



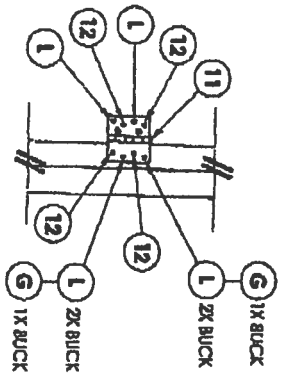
BUCK ANCHORING
50 psf < DP <= 67 psf



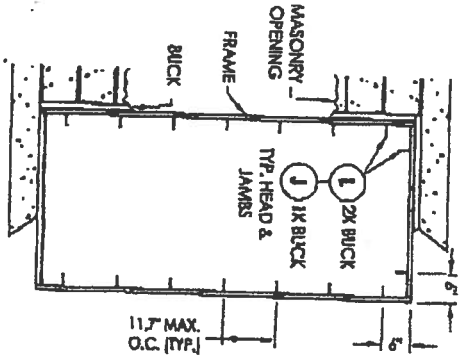
HINGE JAMB



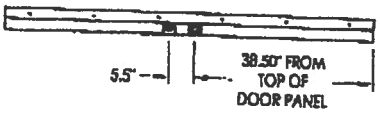
HINGE DETAIL



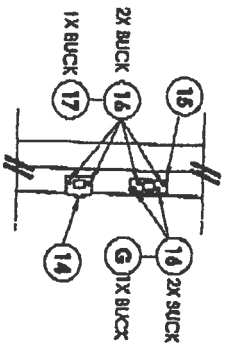
FRAME ANCHORING
Masonry Construction



STRIKE JAMB



LATCH & DEADBOLT DETAIL



L. F. SCHMIDT LICENSED No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

5-6-15

PRODUCT: FIBERGLASS DOOR	Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	DATE: 4/28/15	SHEET 5 OF 8
PART OR ASSEMBLY: BUCK & FRAME ANCHORING	RW BUILDING CONSULTANTS, INC. P.O. Box 230, Venice, FL 34285 Phone No.: 813.859.9197 FBPE C.A. No. 9813	SCALE: N.T.S.	
		DWN. BY: JK	
		CHK. BY: LFS	
		DRAWING NO: FL-17540.1	

REVISIONS

NO.	DATE	BY

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	MAX. 1/4" SHIM SPACE	WOOD
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW	STEEL
1	INSWING ADJUSTABLE THRESHOLD	ALUM./COMP.
2	INSWING ADJUSTABLE THRESHOLD	ALUM./COMP.
3	OUTSWING BUMPER THRESHOLD	ALUM./COMP.
6	DOOR BOTTOM SWEEP	VINYL
7	DOOR BOTTOM SWEEP	VINYL
8	JAMB (PINE) SG >= 0.42	WOOD
10	WEATHERSTRIP	FOAM
11	HINGE (4" X 4")	STEEL
12	#10 X 3/4" PFH SCREW	STEEL
14	LATCH STRIKE PLATE	STEEL
15	SECURITY STRIKE PLATE	STEEL
16	#8 X 2-1/2" PFH SCREW	STEEL
17	#8 X 3/4" PFH SCREW	STEEL
30	SMOOTH SURFACE/WOOD GRAIN DOOR - SEE DOOR PANEL DETAIL SHEET	FIBERGLASS

L. F. SCHMIDT LICENSE No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER

5-1-15

NO.	DATE	REVISIONS	BY

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

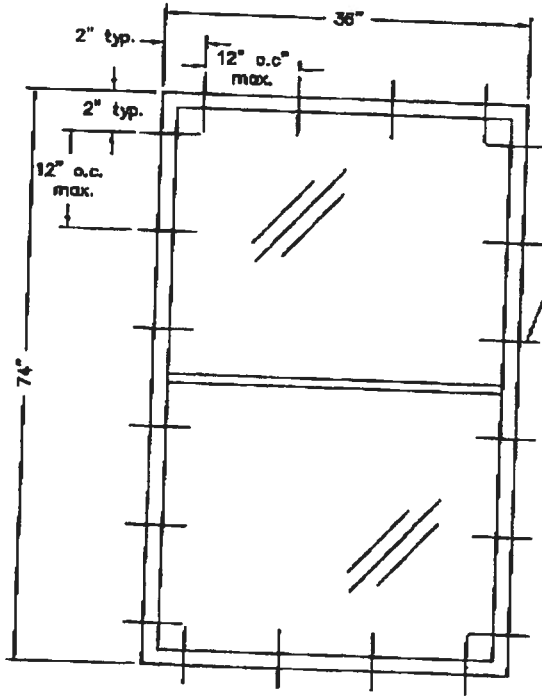
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409

RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.689.8197 FBPE C.A. No. 9813

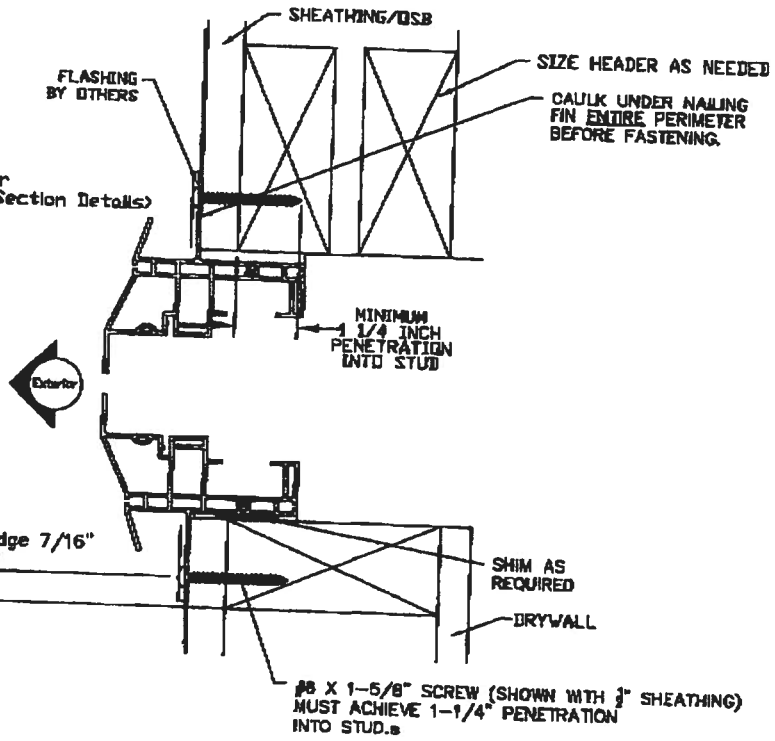
DATE 4/28/15 SCALE: N.T.S. DRN. BY: JK CHK. BY: LFS DRAWING NO: FL-17540.1 SHEET 6 OF 6

FL# 17676.1

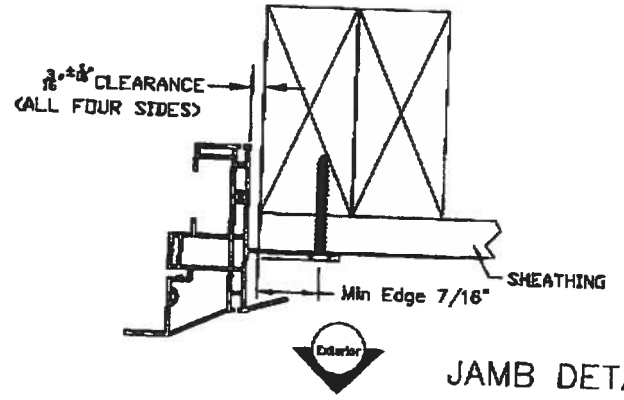
ELEVATION



HEAD DETAIL



SILL DETAIL



JAMB DETAIL

* "NAIL FIN" IS A GENERIC TERM WHICH MEANS "MOUNTING FLANGE". (NOT TO BE CONFUSED WITH "1/2" FRONT FLANGE)

Notes:

1. Installation depicted based off of structural test report #C7327.01-109-47.
2. Wood screws shall satisfy the National Design Specification for Wood Construction for material type and dimensional requirements.
3. Wood buck installations are assumed 2x S-P-F (G=0.42) or denser. Buck width shall be greater than the window frame width. Tapered or partial width bucks are not allowed. Wood buck shall be secured to the structure to resist all design loads.
4. Wood screw lengths shall be sufficient to guarantee 1-1/4" penetration into wood buck.
5. Maximum shim thickness of 1/4" permitted at each fastener location. Shims shall be load bearing, non-compressible type.
6. These drawings depict the details necessary to meet structural load requirements. They do not address the air infiltration, water penetration, intrusion or thermal performance requirements of the installation.
7. Installation shown is that of the test window for the size shown and the design pressure claimed. For window sizes smaller than shown, locate fasteners approx. 2" from corners and no more than 12" on center. Design pressures of smaller window sizes are limited to that of the test window.

SIZE AND DESIGN PRESSURE CHART

FASTENER TYPE AND SPACING SHOWN WILL ALLOW DESIGN PRESSURES UP TO +35/ -50 UNITS UP TO 36" x 74"

(SEE TEST REPORTS FOR INDIVIDUAL UNIT SIZE AND APPLICABLE DESIGN PRESSURE LIMITATIONS)

Mi Windows & Doors Gratz, PA

TITLE: INSTALLATION INSTRUCTIONS & FASTENER SCHEDULE — FIN—

PRODUCT: 3540 Single Hung

DRAWN BY	DATE
V.M.R.	12-14-09
CHECKED	DATE
SCALE	SHEET
NONE	1 of 1
DWG. NO.	REV.
3540-3240 SH FIN	—

Vinyl