

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(a) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

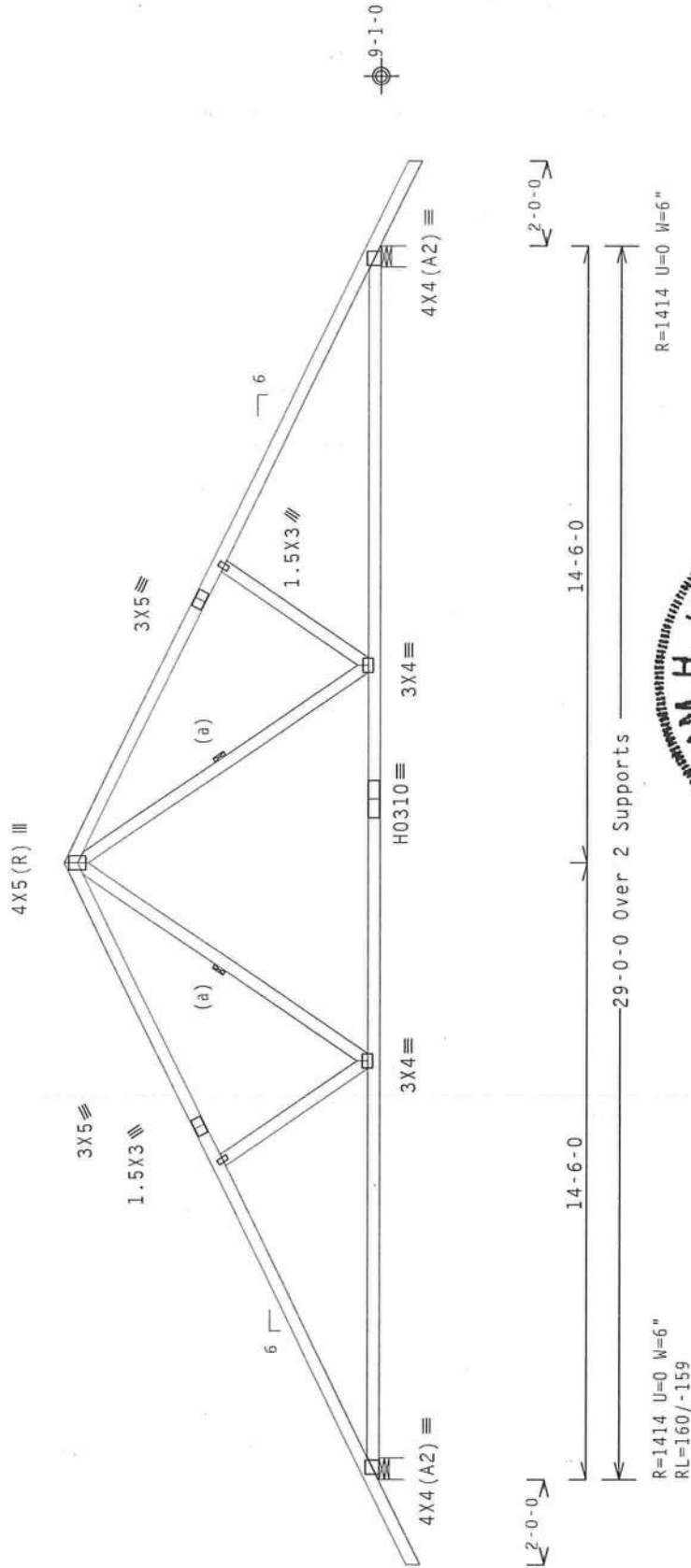
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007(STD FT/RT=20%(0%)/10(0))

FL/-/5/-/R/-

Scale = .25"/Ft.

 ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. **IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety) Information, by TPI and WCA, practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSP sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing and bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing or cover page listing this drawing. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2. For more information see: general notes pages: ITW-HCD; www.itwbcg.com; TPI: www.tpiinst.org; WCA: www.wcaindustry.com; ICC: www.iccsafe.org		No. 70861 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER 10/11/2012	TC LL	20.0 PSF	REF R9114- 39522
			TC DL	10.0 PSF	DATE 10/11/12	
			BC DL	10.0 PSF	DRW HCUSR9114 12285016	
			BC LL	0.0 PSF	HC-ENG WHK/WHK	
			TOT.LD.	40.0 PSF	SEQN- 22422	
		DUR.FAC.	1.25			
		SPACING	24.0"	JREF - 1U089114Z02		

(12-261)--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H13A 29' Stepped Hip)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 6Cpl(+/-)=0.18

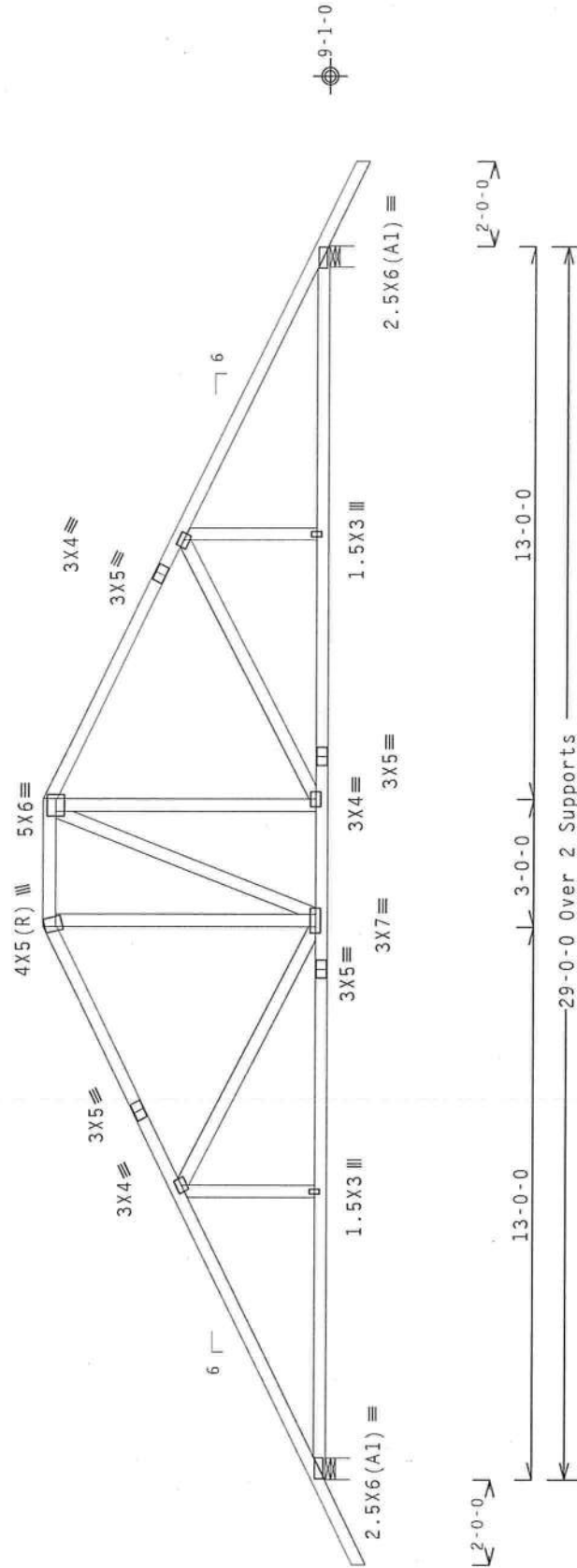
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MMFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MMFRS loads based on trusses located at least 15.00 ft. from roof edge.



R=1328 U=0 W=6"
RL=147/-146

29'-0'-0 Over 2 Supports

R=1328 U=0 W=6"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .25" / Ft.

FL / - / 5 / - / - / R / -

ALPINE ITW Building Components Group Inc. Haines City, FL 33844 FL COA #0278	**WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS. Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the design and erection instructions, TPI and ALSC. Trusses are designed for specific functions. Installer shall provide structural sheathing and bracing. Unless noted otherwise, top chord shall have properly attached structural sheathing and bracing. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BEC sections B3, B7 or B10, as applicable. ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in accordance with ANSI/TPI 1, or for handling, shipping, installing, bracing or trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal of approval is hereby given for the use of this design. The responsibility of professional engineering shall be the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information, see general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; ALSC: www.alscindustry.com; ICC: www.iccsafe.org		TC LL	20.0 PSF	REF	R9114- 39523
			TC DL	10.0 PSF	DATE	10/11/12
			BC DL	10.0 PSF	DRW	HCUSR9114 12285017
			BC LL	0.0 PSF	HC-ENG	WHK/WHK
			TOT. LD.	40.0 PSF	SEON-	22424
		DUR. FAC.	1.25			
		SPACING	24.0"			
		JREF-	1U089114Z02			



(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H11A 29' Stepped Hip)

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

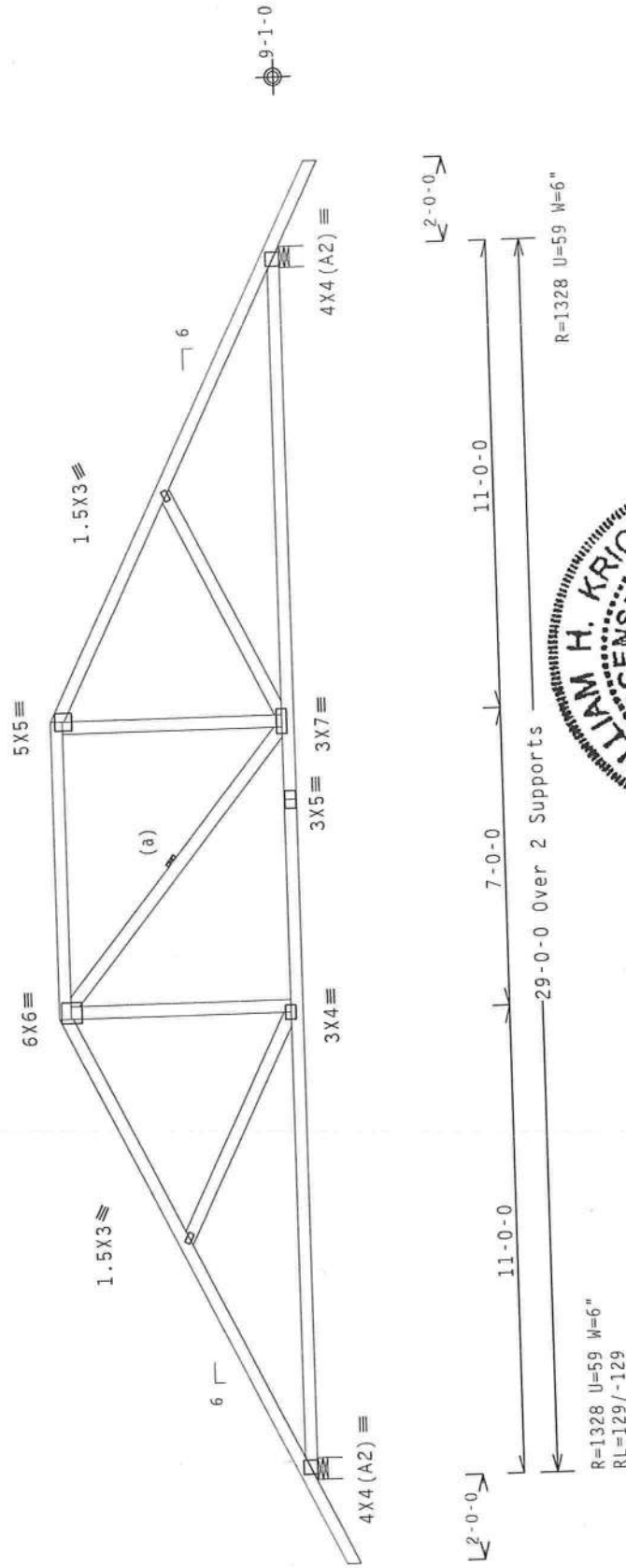
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(a) Continuous lateral bracing equally spaced on member.

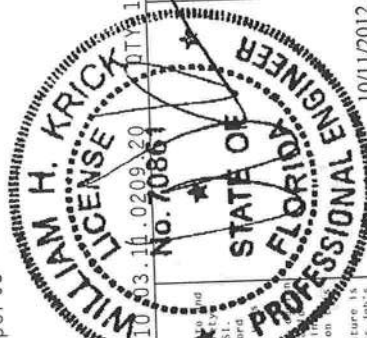
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=1328 U=59 W=6"
RL=129/-129

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .25"/ft.



PLT TYP. Wave



Haines City, FL 33844
888.440.7778

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of RCSI (Building Components Safety Information, by TPI and MICA) for practices prior to performing these tasks. Truss installers shall provide temporary bracing per RCSI. Unless noted otherwise, truss installers shall have properly attached structural sheathing and bottom chord shall have a properly installed rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or construction of the truss system. Trusses shall be installed in accordance with the design and detailing, unless noted otherwise. Apply plates to each face of truss and position as shown on the drawing or cover page listing this drawing. Indicate loadings for all truss members on the drawing. The responsibility solely for the design, construction, installation and use of this design for any structure is the responsibility of the Building Owner per ASCE/TPI 1 Sec.2. For more information see: This Job's general notes page; ITW-BCG; www.itwbcg.com; TPI: www.tpiinst.org; MICA: www.sbcindustry.com; ICC: www.iccsafe.org

REF	R9114-39524
DATE	10/11/12
DRW	HCUSR0114 12285018
HC-ENG	WHK/WHK
SEQN	22426
DUR.FAC.	1.25
SPACING	24.0"
JREF	1U089114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H9A 29' Steppdown Hip)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge. RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCPI(+/-)=0.18

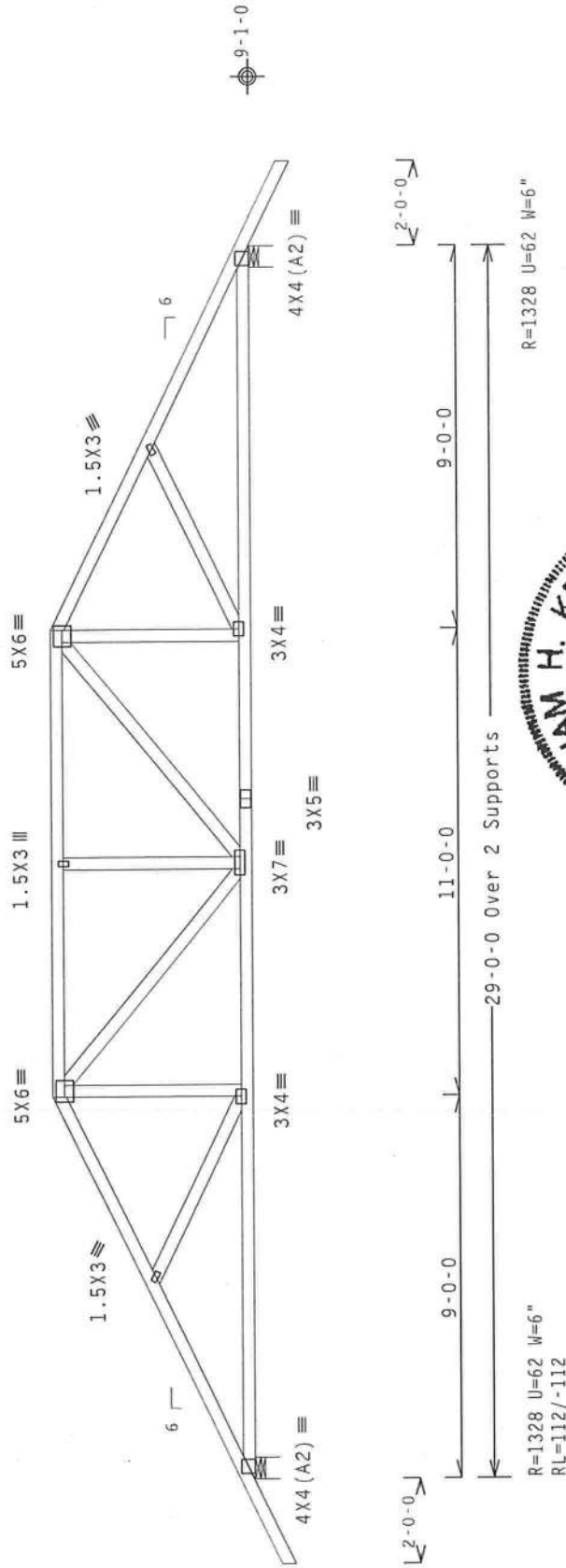
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

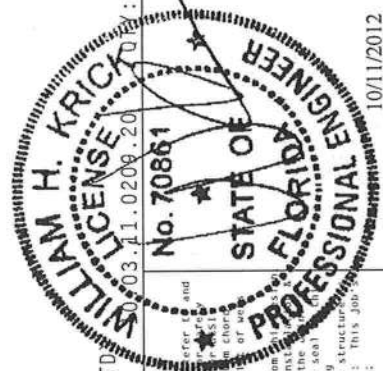
Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

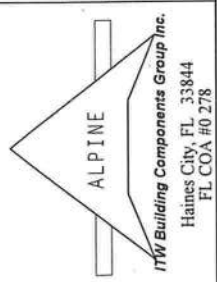
MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



PLT TYP. Wave	Design Crit: FBC2010Res/TPI-2007(STD) FT/RT=20%(0%)/10(0)	Scale = .25" / Ft.
PLT TYP. Wave	REF R9114- 39525 DATE 10/11/12 DRW HCUSR9114 12285019 HC-ENG WHK/WHK SEQN- 22428 JREF- 1U089114202	TC LL 20.0 PSF TC DL 10.0 PSF BC DL 10.0 PSF BC LL 0.0 PSF TOT.LD. 40.0 PSF DUR.FAC. 1.25 SPACING 24.0"



****IMPORTANT****
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Components Group Inc. (BCSI) Truss Installation Manual. Trusses shall be installed in accordance with the BCSI Truss Installation Manual. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-2 for standard plate positions. A seal drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design and construction of the truss structure shown on this drawing. General notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; ATGA: www.atga.com; ICC: www.iccsafe.org



(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - CJA 1' Jack)

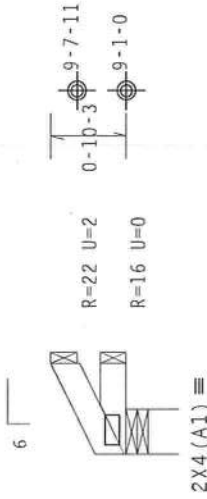
Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 30.00 ft. from roof edge.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



1-0-0 Over 3 Supports

R=48 U=0 W=6"

Design Crit: FBC2010Res/TPI-2007 (STD FT/RT=20%(0%)/10(0))

PLT TYP. Wave

Scale = 5"/Ft.

FL/-/5/-/-/R/-

TOT: 2

REF R9114- 39526

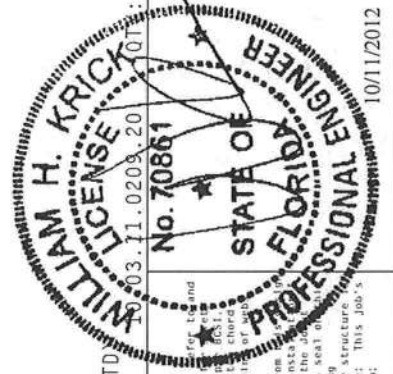
DATE 10/11/12

DRW HCUSR9114 12285020

HC-ENG WHK/WHK

SEQN- 22429

JREF- 1U089114Z02



Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Failure to follow these instructions may result in structural failure.

Unless noted otherwise, top chord shall have properly attached structural sheathing and bolts. Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of top chord shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings IBC-A2 for standard plate positions. A seal of approval is hereby given for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec.2. For more information see: This job's general notes page: ITN-BCG: www.itn-bcg.com; TPI: www.tpinet.org; MCA: www.slciindustry.com; ICC: www-icc-safe.org



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - A3 29' Common)

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpt (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

(a) Continuous lateral bracing equally spaced on member.

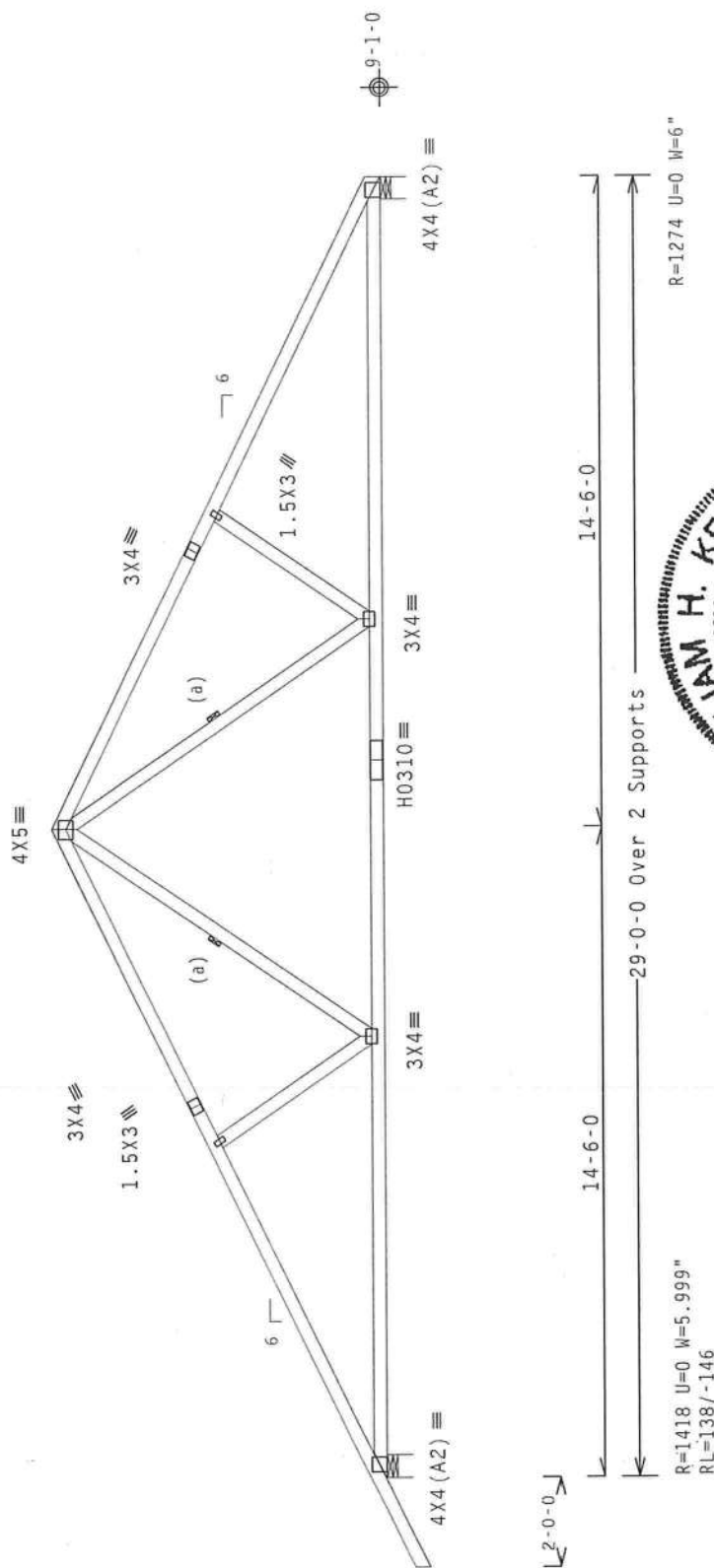
Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

Wind loads and reactions based on MWFRS with additional C&C member design.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x24"-wide clearance.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .25"/Ft.

FL/-/5/-/-/R/-

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSI Building Component Safety Information, by IPI and WICA) practices prior to performing these functions. Installers shall provide temporary bracing until permanent bracing has been installed. Trusses shall have properly attached structural sheathing and lateral bracing. Trusses shall have a properly attached rigid ceiling system. Trusses shall meet minimum lateral resistance requirements as follows: RSI - 87 or RID - 85; ASDI (ASD) - 87 or RID - 85; ASDI (ASD) - 87 or RID - 85.

[illegible]

REF R9114- 39527

DATE 10/11/12

ORW HCUSR9114 12285021

HC-ENG WHK/WHK

SEON - 22431

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

REF- 1U089114Z02

10/11/2012

Job's

For more information:
WTCA: www.sbcinc.com

Designer per AN
twbcy.com; TPI:

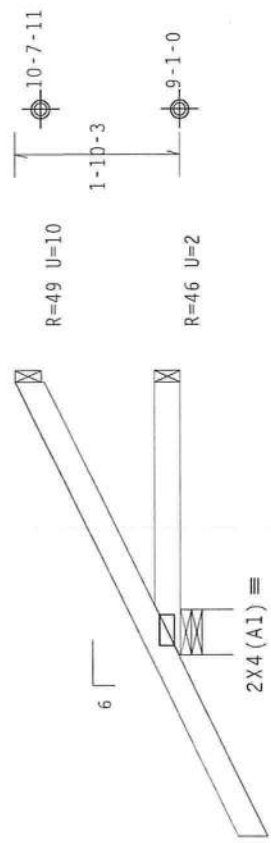
responsibility
general notes page

City, FL 3384

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - CJ3 3' Jack)

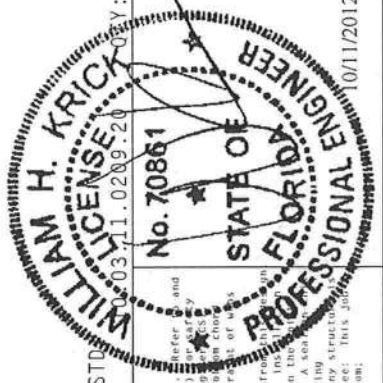
Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.
Bottom chord checked for 10.00 psf non-concurrent live load.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCp1(+/-)=0.18
Wind loads and reactions based on MWFRS with additional C&C member design.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2-0-0
3-0-0 Over 3 Supports
R=317 U=21 W=6"
RL=48/-28

PLT TYP. Wave
Design Crit: FBC2010Res/TPI-2007 (STO)
FT/RT=20%(0%)/10(0)



TC LL	20.0 PSF	REF	R9114- 39528
TC DL	10.0 PSF	DATE	10/11/12
BC DL	10.0 PSF	DRW	HCUSR9114 12285022
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	22433
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1UQ89114Z02

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and WCA) practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall be properly attached structural bracing and bracing shall have bracing installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any trussing building the truss in accordance with ANSI/TPI 1 or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the drawing or cover page listing this design. Indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure other than that intended is the responsibility of the user. For more information see: This job is the property of ITW-BCG. www.itwbcg.com, TPI: www.tpiinc.org, WCA: www.structuralsteel.org

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - CJ5 5' Jack)

Top	chord	2x4	SP_#1_12A
Bot	chord	2x4	SP_#1_12A

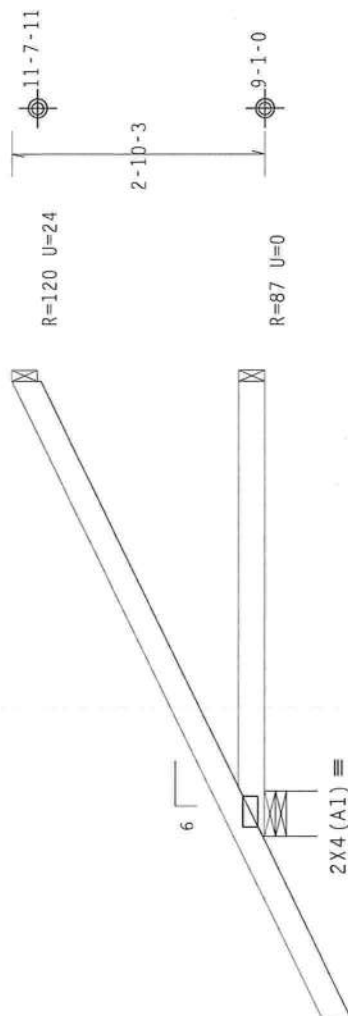
130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCPI (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.


$$\overleftrightarrow{2-0-0}$$

5-0-0 Over 3 Supports

R=377 H=15 W=6"

RL=67/-32

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

FL/-/5/-/-/R/-

10

1/1.0209/20

IP 03.

22401

2007/01/10 (0)

0% (0%)

RT=20°

FT/H

211

Sign

DES

Wave

Түр.

PLT

1

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
IMPORTANT****

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The steel trusses must be installed according to the manufacturer's instructions. The steel trusses must be installed according to the manufacturer's instructions. The steel trusses must be installed according to the manufacturer's instructions.

[illegible]

ALPINE

✓ TW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

10/11/2012

SPACING 24.0"

JREF- 1UQ89114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - EJ7 7' End Jack)

Top chord	2x4	SP_#1_12A
Bot chord	2x4	SP_#1_12A

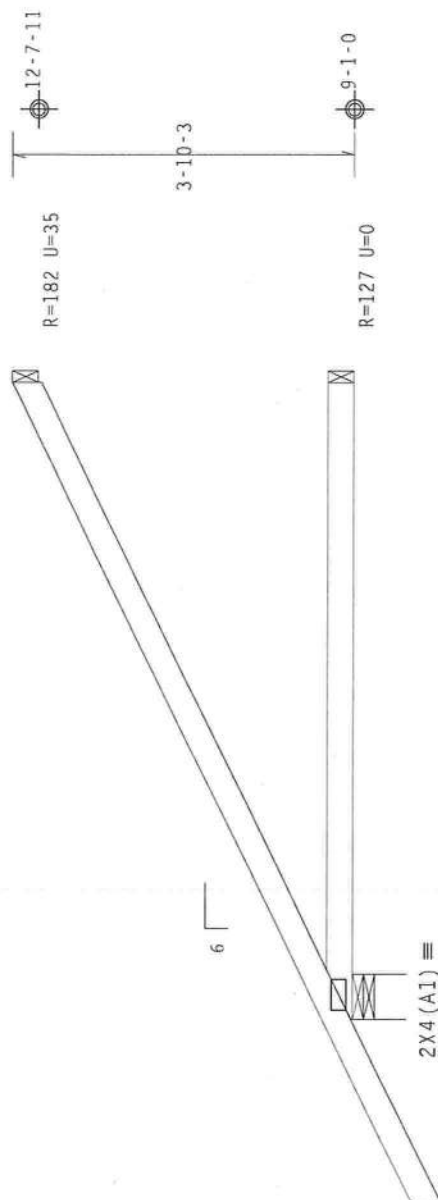
130 mph wind, 15.00 ft mean hgt. ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6Cpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



2.00

7-0-0 Over 3 Supports

R=450 U=11 W=6"

RL=87/-37

Design Crit: FBC2010Res/TPI-2007(STD
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

FL/-/5/-/-/R/-/-

TC LL	20.0 P
-------	--------

TC DI

[illegible]

70 28 10.0 P

BC LL 0.0 P

TOT.LD. 40.0 P

DUR.FAC. 1.25

SPACING 24 0"

PLT TYP. Wave



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

..IMPORTANT..

Trusses require extreme care in fabricating, shipping, unloading and bracing. They must be braced to prevent buckling or crushing of the top chord and to prevent lateral movement of the top chord. The bracing must be installed prior to performing these functions. Installation of the bracing must be as follows:

- The bracing must be installed in the same manner as the bracing installed in the truss.
- The bracing must be installed in the same manner as the bracing installed in the truss.
- The bracing must be installed in the same manner as the bracing installed in the truss.

Trusses shall have a properly attached rigid ceiling. Locations shown for permanent lateral resistance or bracing shall have bracing installed per MCS sections B3, B7 or B10, as applicable.

The Building Components Group Inc. (BCEG) shall be responsible for any distortion from its failure to build the Truss in accordance with AB51/TPI 3, or for handling, shipping, installation, or storage of the truss. The manufacturer shall be responsible for any distortion from its manufacturing processes. Apply plates to each face of truss and position as shown above and on the reverse side of this drawing. Refer to drawings 160A-2 for standard plate positions. A steel fabricator's stamp indicating date, name, and address must appear on the underside of the bottom chord. This drawing indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structural application is the responsibility of the building designer per AB51/TPI 3 Sec.2. For more information see: General notes page, BCEG, <http://www.bceg.com>; TPI, <http://www.tpi.org>; AISC, <http://www.aisc.info/steel>.

CC: www.icsafe.org

10/11/2012

SPACING 24.0"

REF- 1UQ89114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - CJ5A 5' Jack)

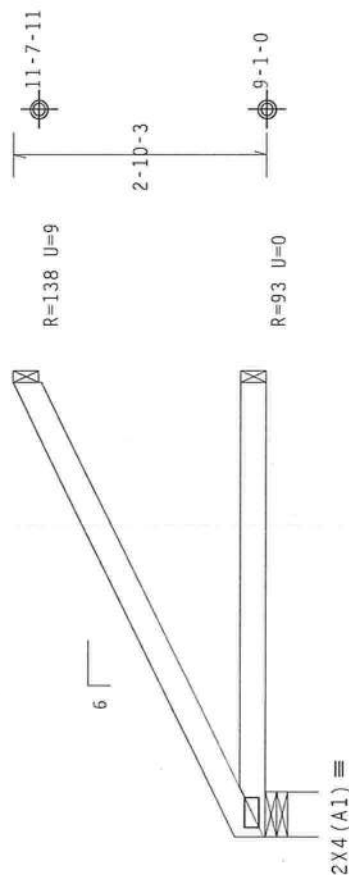
Top chord	2x4	SP_#1_12A
Bot chord	2x4	SP_#1_12A

130 mph wind, 15.00 ft mean hgt., ASCE 7-10, CLOSED bldg., Located anywhere in roof, RISK CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6Cpi (+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Bottom chord checked for 10.00 psf non-concurrent live load.

WMFRS loads based on trusses located at least 15.00 ft. from roof edge.



← 5-0-0 Over 3 Supports →

R=212 U=0 W=6"
RL=32

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD
 $FT/RT=20\%(0\%)/10(0)$

Scale = .5"/Ft.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET**

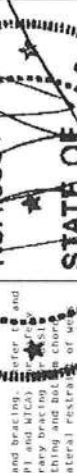
****IMPORTANT** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Failure to follow these instructions may result in structural failure. Truss Company and its practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and not be chored. Sheathing shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BECI sections B3, B7 or B10, as applicable.

TH Building Components Group Inc. (THBCG) shall not be responsible for any deviation from the design of this drawing. The user of this drawing shall be responsible for any structural failure or damage resulting from the use of this design for any structure. This job is the responsibility of the Building Designer per ANSI/TPI 1-2.

general notes pages: TH-BGC; www.thbcg.com; TPI: www.tpinet.org; WCA: www.stcindustry.com; ICC: www.iccsafe.org

REF	R9114 - 39531	TC LL	20.0	PSF
DATE	10/11/12	TC DL	10.0	PSF
DRW	HCUSR9114 12285025	BC DL	10.0	PSF
HC-ENG	WHK/WHK	BC LL	0.0	PSF
SEQN-	22436	TOT.LD.	40.0	PSF
DUR.FAC.	1.25			
SPACING	24.0"			





THW Building Components Group Inc.

Haines City, FL 33844

FL COA #0 278

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - CJ3A 3' Jack)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

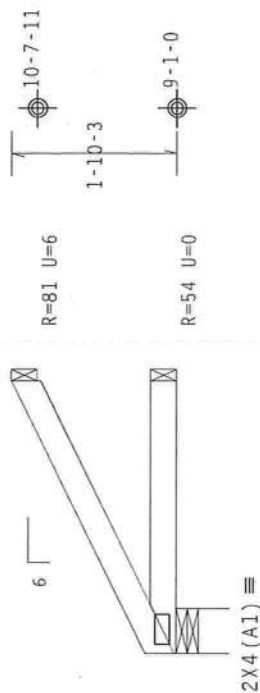
Bottom chord checked for 10.00 psf non-concurrent live load.

MMFRS loads based on trusses located at least 30.00 ft. from roof edge.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 6Cpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



3-0-0 Over 3 Supports
R=130 U=0 W=6"

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

****WARNING** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.**

Prusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety Information, by IMI and NRC) for the proper design and installation of prusses. Prusses should be attached to structural members without using endbrackets. Prusses should be attached to the underside of top chord shall have a property attached rigid ceiling. Locations shown for permanent lateral restraint of prusses shall have bracing installed per BCSP sections B3, B7 or B8, as applicable.

The Building Components Group Inc. (LTD)GEC shall be responsible for any distortion from its failure to build the truss in accordance with ANSI/TPI-1, or for handling, shipping, installing or erecting the truss. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this design for any structure is the user's responsibility. Building Designer permit ANSI/TPI-1 Sec.2. For more information see: general notes page 17W-BGC. www.bci-usa.com; www.sdcindustries.com; www.1855454@att.net

ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

10/11/2012

SPACING 24.0"

JREF- 1UQ89114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H11B 29' Stepped Hip)

Top chord 2x4 SP-#1-12A
Bot chord 2x4 SP-#1-12A
Webs 2x4 SP-#3-12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

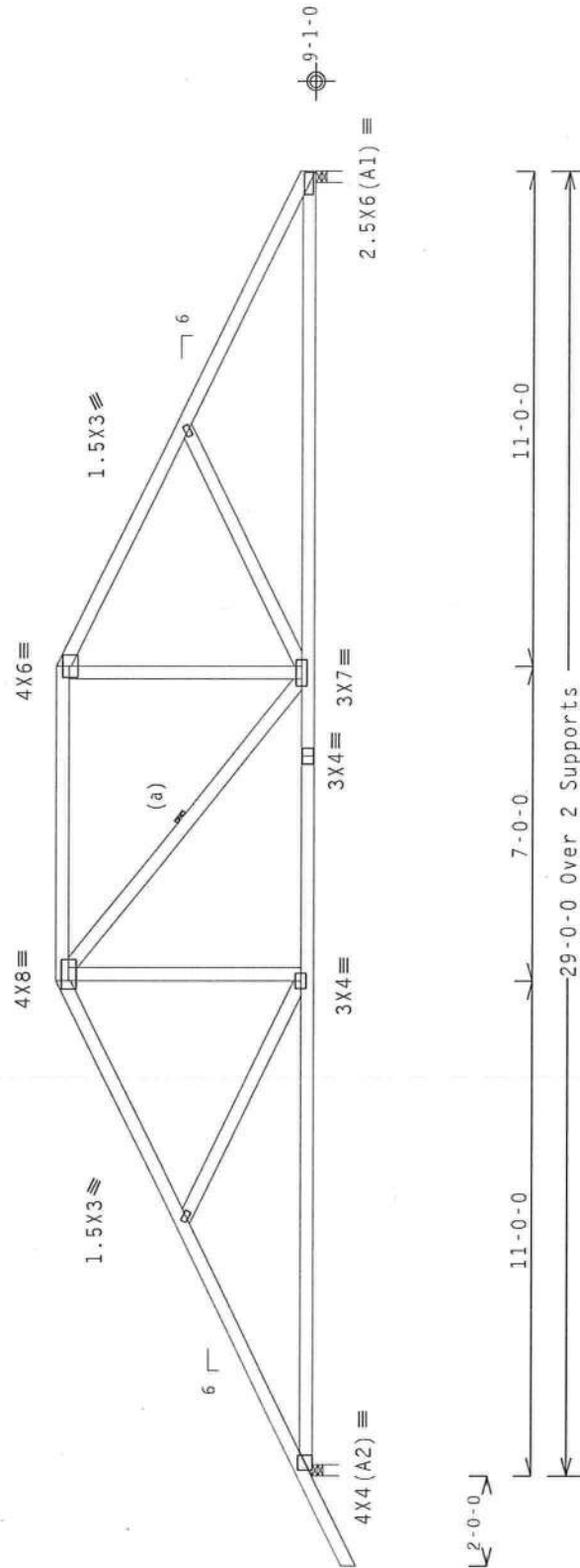
(a) Continuous lateral bracing equally spaced on member.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Wind loads and reactions based on MWFRS with additional C&C member design.

Bottom chord checked for 10.00 psf non-concurrent live load.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.



R=1333 U=60 W=3"
RL=107/-116

R=1189 U=42 W=3"

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

PLT TYP. Wave

Scale = .25"/Ft.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SPECIFICATIONS. FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT**** TRUSSES require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSJ (Building Components Specification for Joist Trusses) and practices prior to performing these functions. Installers shall provide temporary bracing unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per BCSJ sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing or trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 1004-2 for standard plate positions. A seal of approval is hereby given by ITWBCG for the design shown. The suitability and use of this design for any structure is the responsibility of the building designer per ANSI/TPI 1 Sec. 2. For more information see: general notes page: ITWBCG: www.itwbcg.com; TPI: www.tpinet.org; MECA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

REF	R9114-	39533
DATE	10/11/12	
DRW	HCUSR9114	12285027
HC-ENG	WHK/WHK	
SEQN-	22439	
TOT.LD.	40.0	PSF
DUR.FAC.	1.25	
SPACING	24.0"	
JREF-	1U089114	Z02

Top chord	2x4	SP_#1_12A
-Bot chord	2x4	SP_#1_12A
Webbs	2x4	SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

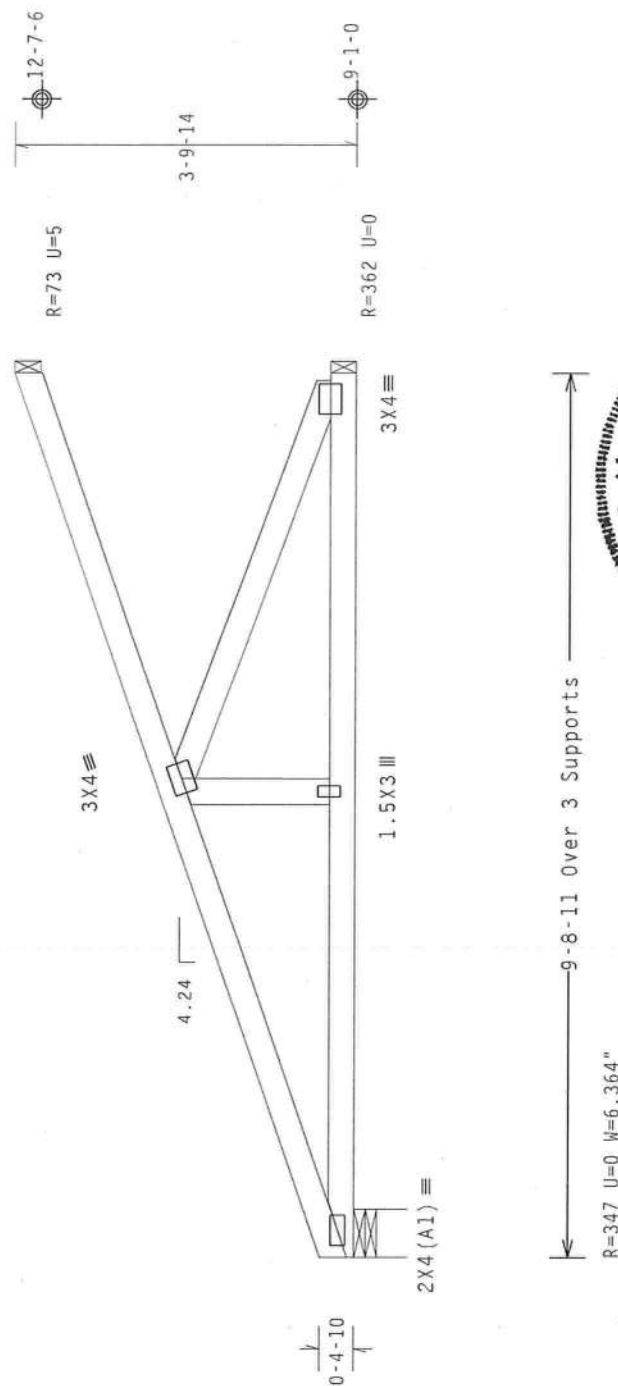
Wind loads and reactions based on MWFRS with additional C&C member design.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Special loads

Species	Load	Number	Dur. Fac.=1.25	Plate Dur. Fac.=1.25
TC-From	2 pif at -0.11	2	pif at 9.72	
BC-From	2 pif at -0.11	2	pif at -0.00	
BC-From	2 pif at -0.00	2	pif at 9.72	
TC-44.32 lb Conc.	Load at 1.30			
TC-129.50 lb Conc.	Load at 4.13			
TC-257.79 lb Conc.	Load at 6.96			
BC-31.81 lb Conc.	Load at 1.30			
BC-100.07 lb Conc.	Load at 4.13			
BC-179.94 lb Conc.	Load at 6.96			

Bottom chord checked for 10.00 psf non-concurrent live load.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007(STD)
FT/RT=20%(0%)/10(0)

Scale = .5"/Ft.

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

****IMPORTANT****

Trusses require extreme care in fabricating, hoisting, shipping, installing and bracing. Follow the latest edition of BCSI Building Component Safety Information, BCI and BCSA publications for complete details. Installers shall provide temporary bracing and shoring for all trusses until the permanent bracing is installed. Trusses shall have a property attached right of lateral restraint of top chord. Trusses shall have bracing installed per BCSI sections B3, B7R B10, as applicable.

ITW Building Components Group Inc. (**INBCD**) shall not be responsible for any deviation from the design shown or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or any other damage to the truss. The user shall be responsible for any damage resulting from any reworking of the truss, including welding, drilling, cutting, grinding, sanding, painting, etc., unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal shall be provided on all plates. The drawing is intended as a guide only. It does not constitute a warranty or responsibility for the design shown. Indicates acceptance of professional engineering services by the user. The suitability and use of this design for any structure is the sole responsibility of the user. For more information, contact us on AOL: www.inbc.com. General notes page: INBCD: www.100key.com; TPI: www.tpiinfo.org; UTCS: www.sbcindustries.com

ALPINE

TW Building Components Group Inc.

Haines City, FL 33844
FL COA #0 278

10/11/2012

SPACING 24.0'

JREF- 1UQ89114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - HJ7 9'10"13 Hip Jack Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved
1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located
within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf,
wind BC DL=5.0 psf, 6Cpi (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member
design.

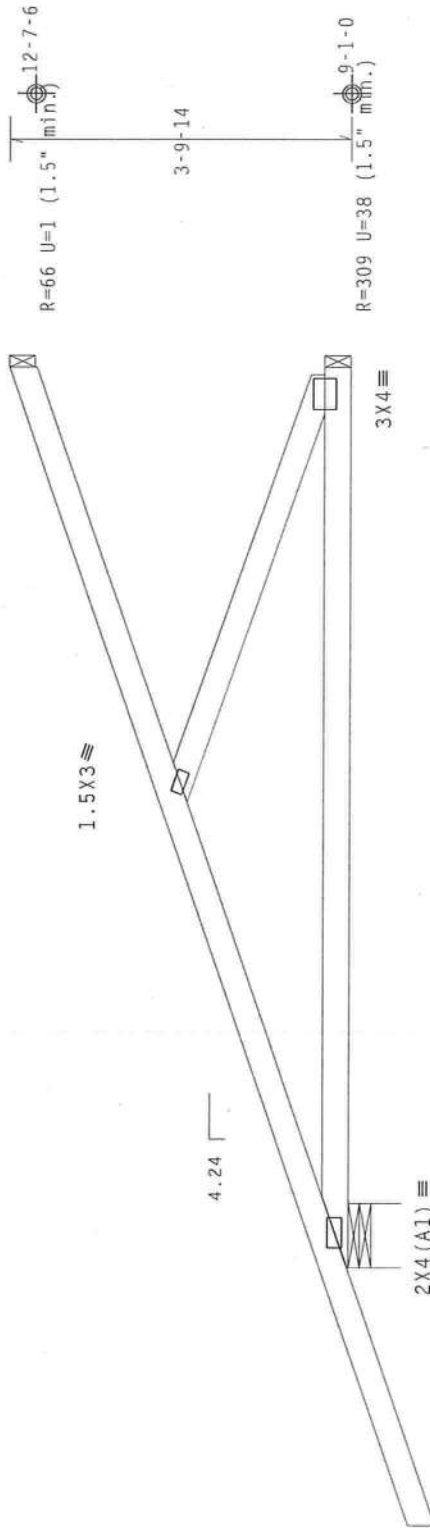
Bottom chord checked for 10.00 psf non-concurrent live load.

Special loads

----- (Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 0 pif at -2.83 to 61 pif at 0.00
TC- From 2 pif at 0.00 to 2 pif at 9.90
BC- From 0 pif at -2.83 to 4 pif at 0.00
BC- From 2 pif at 0.00 to 2 pif at 9.90
TC- -86.25 lb Conc. Load at 1.48
TC- 97.82 lb Conc. Load at 4.31
TC- 240.51 lb Conc. Load at 7.13
BC- -5.98 lb Conc. Load at 1.48
BC- 91.24 lb Conc. Load at 4.31
BC- 174.21 lb Conc. Load at 7.13

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD
FT/RT=20%(0%)/10(0))

Scale = .5" / Ft.

REF	R9114-	39535
DATE	10/11/12	
DRW	HCUSR9114	12285040
HC-ENG	WHK/WHK	
SEQN-	1749	REV.
DUR.FAC.	1.25	
SPACING	24.0"	



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing.
Follow the manufacturer's instructions for the proper use of the truss and its components.
Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord
shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint
shall have bracing installed per BCSP sections 83, 87 or 810, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the
any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing
bracing or trusses. Apply plates to each face of truss and position as shown above and on the
details, unless noted otherwise. Refer to drawings 100A-2 for standard plate positions. A seal of
responsibility solely for the design shown. The seal of a professional engineer is required for
the responsibility of the design shown. The seal of a professional engineer is required for
general notes page: ITW-BCG; www.itwbcg.com; TPI: www.tpinet.org; MCA: www.socindustry.com;
ICC: www.iccsafe.org

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H7A 29' Stepdown Hip Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x6 SP_#2_12A
Webs 2x4 SP_#3_12A

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpi(+/-)=0.18

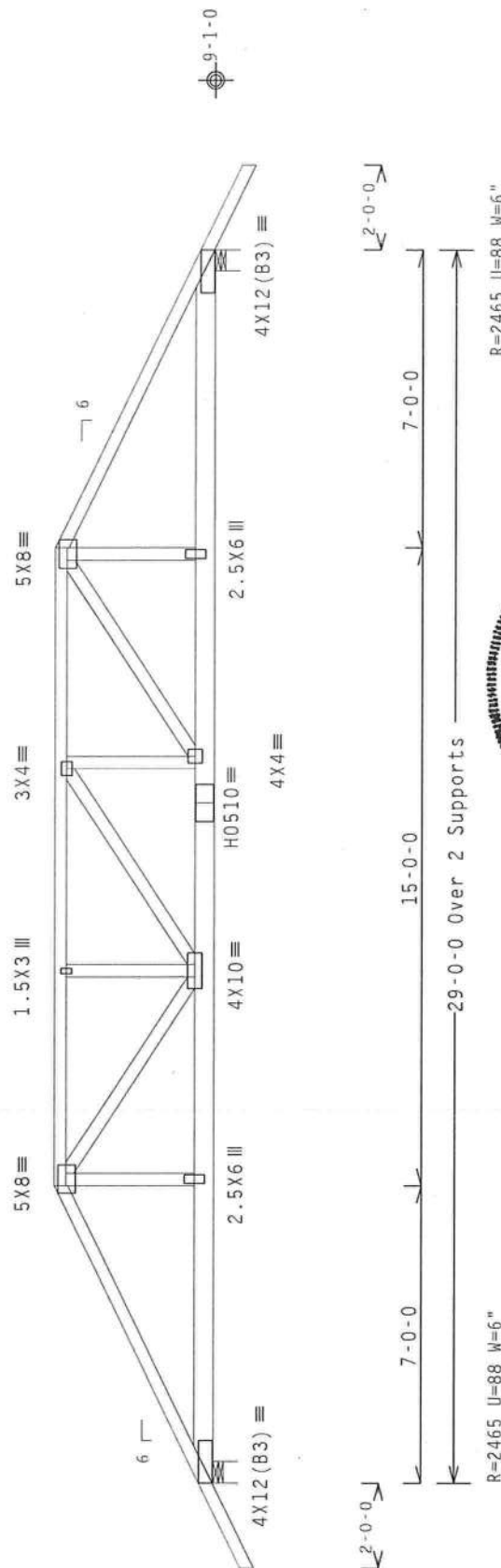
Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

#1 hip supports 7-0-0 jacks with no webs.

Left side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. End jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang. Right side jacks have 7-0-0 setback with 0-0-0 cant and 2-0-0 overhang.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

Scale = .25"/Ft.

REF R9114- 39536

DATE 10/11/12

DRW HCUSR9114 12285029

HC-ENG WHK/WHK

SEQN- 22474

DUR.FAC. 1.25

SPACING 24.0"

JREF- 1U089114Z02

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall be erected in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.

Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.

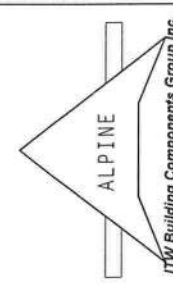
Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.

Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.

Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.

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Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions. Trusses shall be braced in accordance with the manufacturer's instructions and shall be braced prior to performing these functions.



(12-261--Jerry Castagna Constructf Willmann Res. -- Columbia County, FL - H7A1 29' Stepdown Hip Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x6 SP_#1_Dense_12A :B2 2x6 SP_#2_12A:
Webs 2x4 SP_#3_12A

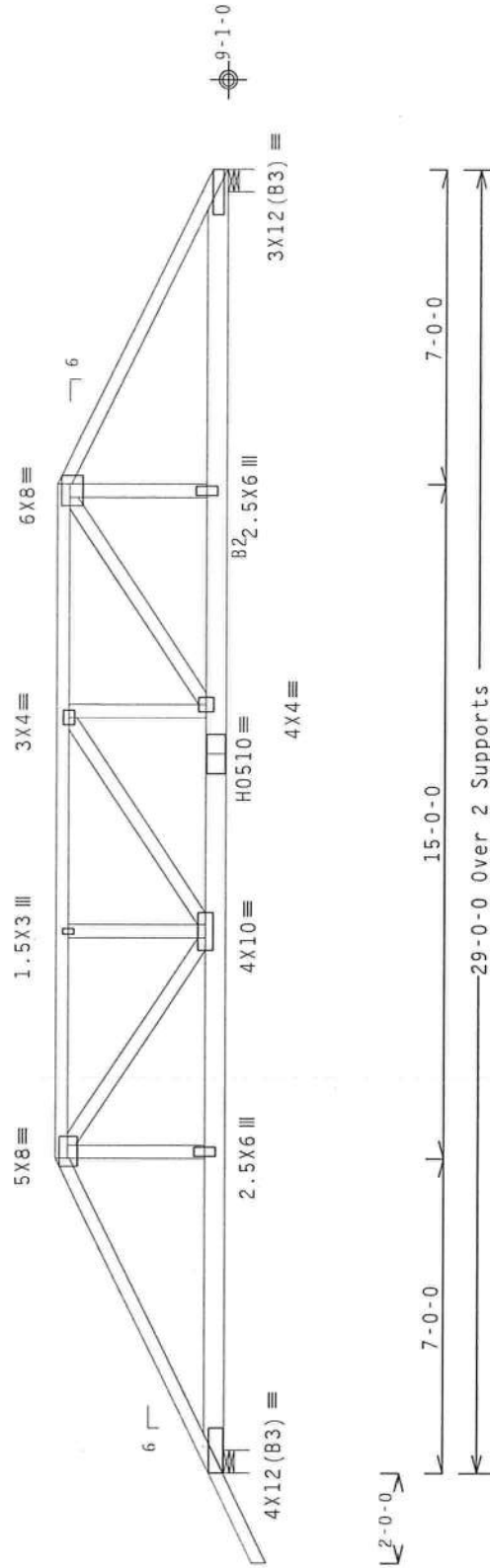
130 mph wind, 15,00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

Wind loads and reactions based on MWFRS with additional C&C member design.

#1 hip supports 7'-0" jacks with no webs.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



R=2473 U=90 W=5.999"

R=2335 U=63 W=6"

PLT TYP. 20 Gauge HS.Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20% (0%)/10 (0)

Scale = .25"/Ft.

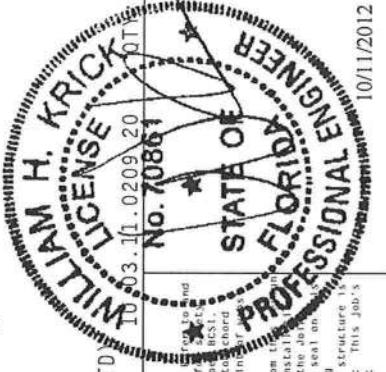
WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Trusses shall be erected in accordance with the manufacturer's instructions and the American Institute of Steel Construction, Inc. (AISC) Manual of Steel Construction, 13th Edition, Part 5, Trusses. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per IBCS1 sections B3, B7 or B10, as applicable.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing or bracing of trusses. Apply plates to each face of truss and position as shown above and on the Job. Details, unless noted otherwise, refer to drawings 100A-2 for standard plate positions. A seal on the drawing or cover page listing this drawing, indicates acceptance of professional engineering. The responsibility of the Building Designer per ANSI/TPI 1, Section 1.5.1, shall not be transferred to ITWBCG by the use of this design for any structure. This document is a general notes page; ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; MTCa: www.sbcindustry.com; IEC: www.iccsafe.org



ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278



TC LL	20.0 PSF	REF	R9114- 39537
TC DL	10.0 PSF	DATE	10/11/12
BC DL	10.0 PSF	DRW	HCUSR9114 12285030
BC LL	0.0 PSF	HC-ENG	WHK/WHK
TOT.LD.	40.0 PSF	SEQN-	22468
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1U089114Z02

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County , FL - HJ5 6'10"12 Hip Jack Girder)

Top chord 2x4 SP_#1_12A
Bot chord 2x4 SP_#1_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpi (+/-)=0.18

Wind loads and reactions based on MMFRS with additional C&C member design.

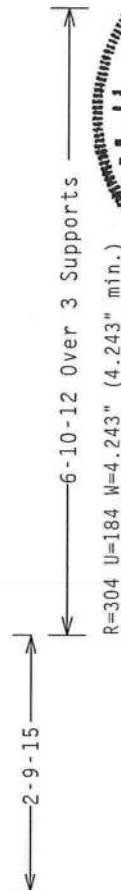
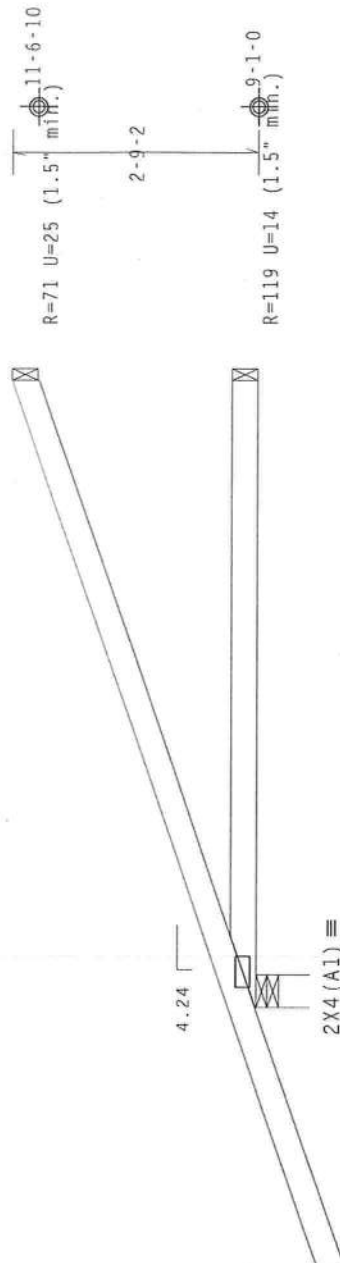
Bottom chord checked for 10.00 psf non-concurrent live load.

Special loads

-----Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From 0 plf at -2.83 to 61 plf at 0.00
TC- From 2 plf at 0.00 to 2 plf at 6.89
BC- From 0 plf at -2.83 to 4 plf at 0.00
BC- From 2 plf at 0.00 to 2 plf at 6.89
TC- -79.60 lb Conc. Load at 1.48
TC- 100.97 lb Conc. Load at 4.31
BC- -4.91 lb Conc. Load at 1.48
BC- 92.10 lb Conc. Load at 4.31

Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

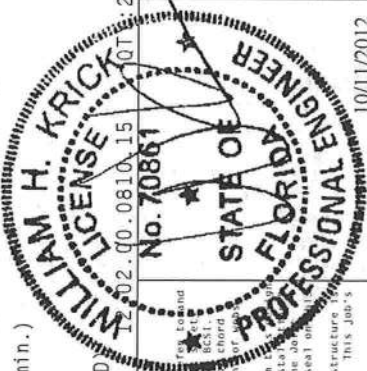


PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20%(0%)/10(0)

Scale = 5"/Ft.

REF	R9114-	39538
DATE	10/11/12	
DRW	HCUSR9114	12285041
HC-ENG	WHK/WHK	
SEQN	1751	REV
SPACING	24.0"	



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
****IMPORTANT**** Trusses require extreme care in fabricating, handling, shipping, installing and bracing. The truss manufacturer shall follow the latest edition of BCSI Building Code of America (BCA) and all applicable codes and standards. Unless noted otherwise, top chord shall have properly attached structural sheathing and blocking and shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of top chord shall have blocking installed per BCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installing, bracing of trusses. Apply plates to each face of truss and position as shown above and on the job. ITWBCG shall not be responsible for any deviation from the design or any failure to build the truss in conformance with ANSI/TPI 1 Sec.2, for more information see: This job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpinet.org; MECA: www.mecaindustry.com; ICC: www.iccsafe.org

ALPINE
ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0 278

10/11/2012

(12-261--Jerry Castagna Constructi Willmann Res. -- Columbia County, FL - H5C 18' Steppedown Hip Girder)

Top chord 2x4 SP #1_12A
Bot chord 2x4 SP #1_12A
Webs 2x4 SP #3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, GCpl(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

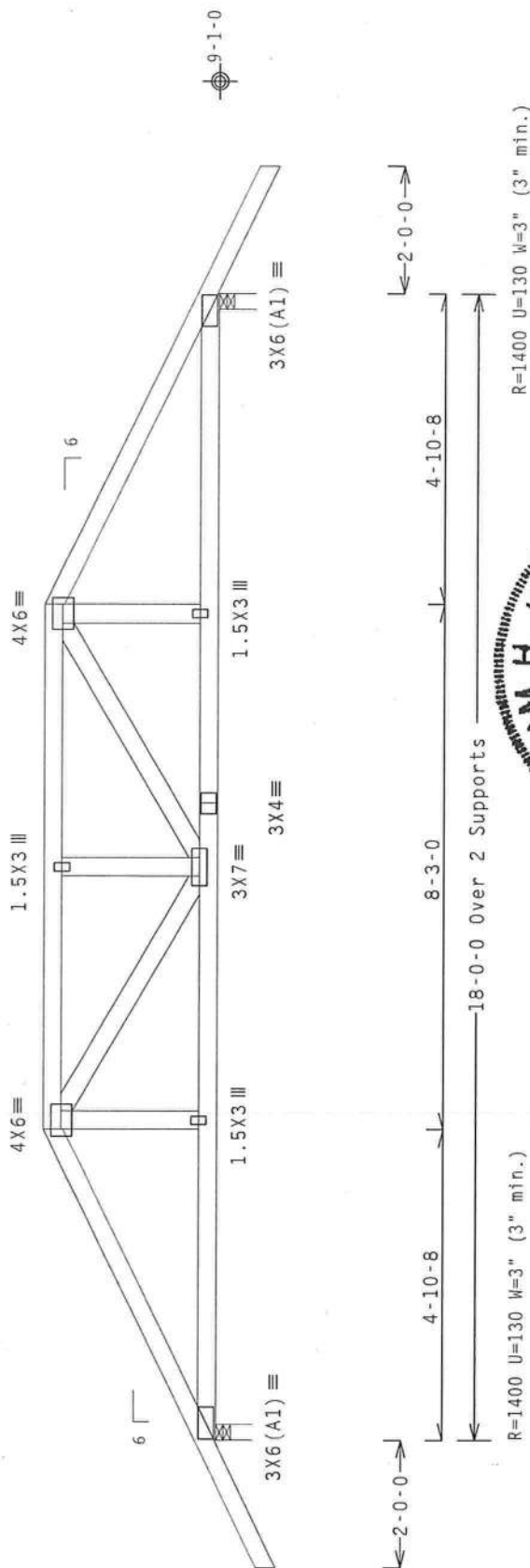
Roof overhang supports 2.00 psf soffit load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Special Loads

----- (Lumber	Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC- From	62 plf at -2.00 to 62 plf at 4.87
TC- From	31 plf at 4.87 to 31 plf at 13.13
TC- From	62 plf at 13.13 to 62 plf at 20.00
BC- From	4 plf at -2.00 to 4 plf at 0.00
BC- From	20 plf at 0.00 to 20 plf at 4.91
BC- From	10 plf at 4.91 to 10 plf at 13.09
BC- From	20 plf at 13.09 to 20 plf at 18.00
BC- From	4 plf at 18.00 to 4 plf at 20.00
TC- 188.01 lb Conc.	Load at 4.91, 13.09
TC- 117.12 lb Conc.	Load at 6.94, 9.00, 11.06
BC- 203.90 lb Conc.	Load at 4.91, 13.09
BC- 84.99 lb Conc.	Load at 6.94, 9.00, 11.06

Bottom chord checked for 10.00 psf non-concurrent live load.



R=1400 U=130 W=3\" (3\" min.)

18-0-0 Over 2 Supports

R=1400 U=130 W=3\" (3\" min.)

PLT TYP. Wave

Design Crit: FBC2010Res/TPI-2007 (STD)
FT/RT=20% (0%)/10 (0)

Scale = .375\"/Ft.



****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET.
FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of RCSI (Building Component Safety Institute) RCSI-1000 practices prior to performing these functions. Installers shall provide temporary bracing per RCSI-1000 unless noted otherwise. Top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint shall have bracing installed per RCSI sections B3, B7 or B10, as applicable.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the bracing of trusses. Apply plates to each face of truss and position as shown above and on the details, unless noted otherwise. Refer to drawings 1000-2 for standard plate positions. A seal on the drawings shall be provided by the building designer. The suitability and use of this design and structure is the responsibility of the building designer per ANSI/TPI 1 Sec. 2. For more information see: This Job's general notes page: ITW-BCG: www.itwbcg.com; TPI: www.tpiinst.org; ALSC: www.alscindustry.com; ICC: www.iccsafe.org

ALPINE

ITW Building Components Group Inc.
Haines City, FL 33844
FL COA #0278

REF	R9114-	39539
DATE	10/11/12	
DRW	HCUSR9114	12285042
HC-ENG	WHK/WHK	
SEON-	1753	REV
DUR.FAC.	1.25	
SPACING	24.0"	
JREF-	1U089114Z02	

10/11/2012

Top chord 2x4 SP_#1_12A : T2 2x4 SP M-30:
Bot chord 2x6 SP_#1_Dense_12A : B2 2x6 SP_#2_12A:
Webs 2x4 SP_#3_12A

Lumber grades designated with "12A" use design values approved 1/5/2012 by ALSC.

```

3 arg blocks: 0.128"x3", min. nails
1 arg x-loc #blocks length/blk #nails/blk wall plate
2 28.750' 1 12" 4 Rigid Surface
3
Refer to drawing CWNALSP0109 for more information.

```

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi (+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design.

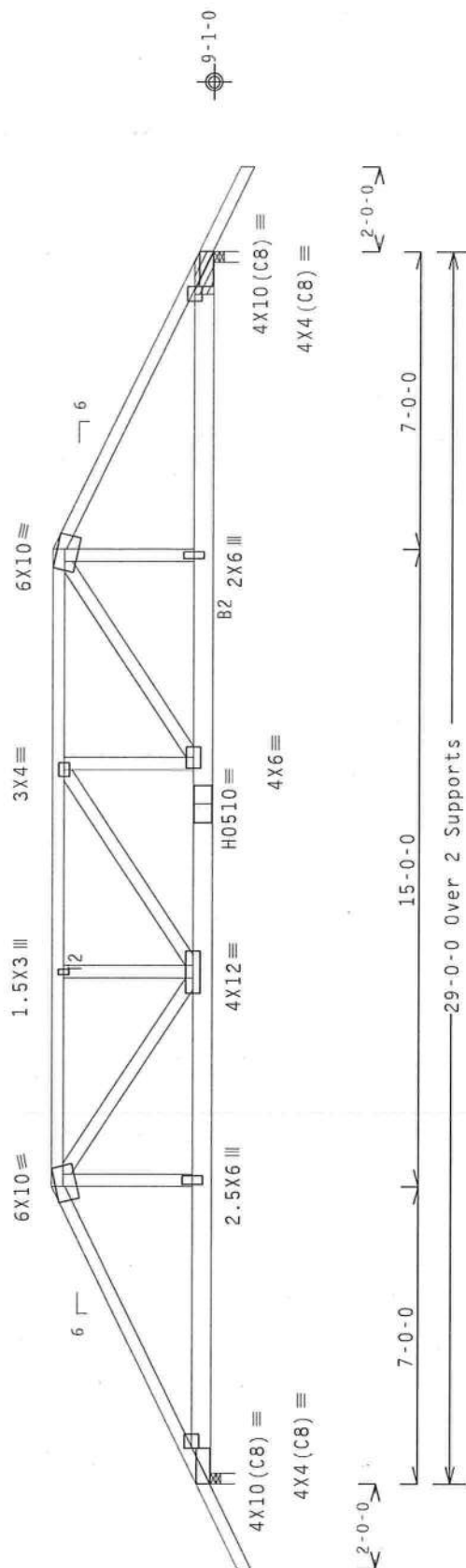
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

Special loads

-----	(Lumber	Dur. Fac.=1.25	/	Plate Dur. Fac.=1.25)	
TC- From	62	plf at -2.00	to	62	plf at 7.00
TC- From	31	plf at 7.00	to	31	plf at 22.00
TC- From	62	plf at 22.00	to	62	plf at 31.00
BC- From	4	plf at -2.00	to	4	plf at -0.00
BC- From	20	plf at -0.00	to	20	plf at 7.03
BC- From	10	plf at 7.03	to	10	plf at 21.97
BC- From	20	plf at 21.97	to	20	plf at 29.00
BC- From	4	plf at 29.00	to	4	plf at 31.00
TC- 248.82	lb Conc.	Load at		7.03	21.97
TC- 183.12	lb Conc.	Load at		9.06	11.06, 13.06, 14.50
15.94,	17.94	19.94			
BC- 440.57	lb Conc.	Load at		7.03	21.97
BC- 127.29	lb Conc.	Load at		9.06	11.06, 13.06, 14.50
15.94,	17.94	19.94			

Roof overhang supports 2.00 psf soffit load.

Bottom chord checked for 10.00 psf non-concurrent live load.



R=2795 U=212 W=3" (3" min.)

R=2795 U=212 W=3" (3" min.)

PLT TYP. 20 Gauge HS, Wave

Design Crit: FBC2010Res/TPI-2007(STD
FT/RT=20%(0%)/10(0)

Scale = .25"/Ft.

FL/-/5/-/-/R/-

340.14 Y:1

2:02:00.

RT/RT=20% (0%) / 10

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HS, Wave

LT TYP. 20 Gaug

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS SHEET!
****IMPORTANT**** FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS.

70851

TC LL	20.0
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SF	REF R9114-3
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R9114-	39540
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Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Follow the latest edition of BCSP (Building Component Safety) Information, by PFI and WCA. If the manufacturer's instructions are not available, installers shall provide temporary bracing and shoring for all trusses until they are permanently braced. Trusses shall be braced in accordance with the manufacturer's instructions. Trusses shall have a properly attached structural sheathing and bracing that shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of trusses shall have bracing installed per BCSP sections B3, B4 or B10, as applicable.

17th Building Components Group Inc. (TUBCG) shall not be responsible for any deviation from the design or construction of the building components if the deviation is caused by any failure to build the Truss in conformance with ANSI/TPI 1, or for handling, shipping, installation or erection.

Apply plates to each face of truss and position as shown above and on the bracing of trusses. Refer to drawings 160A-Z for standard plate positions. A section cut through the truss is shown in the detail.

The responsibility solely for the design growth, the suitability and use of this design for any structural drawing or cover page listing this drawing, indicates acceptance of professional engineering registration by the engineer.

The responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. For more information see: This book

general notes page: ITH-BCG: www.ithbcg.com; TPI: www.tpiinst.org; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

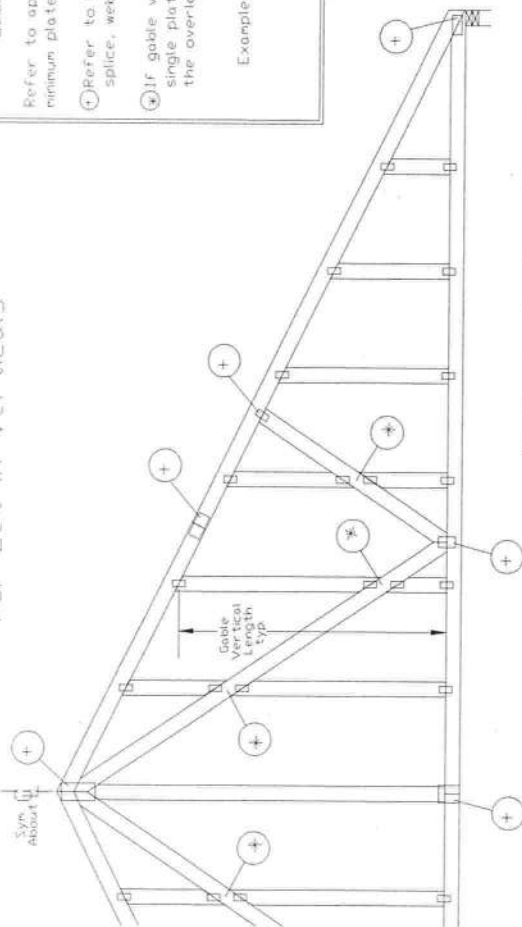
ALPINE

ITW Building Components Group Inc.

Haines City, FL 33844
 FL COA #0278

FLCOA #0210

Gable Detail For Let-in Verticals

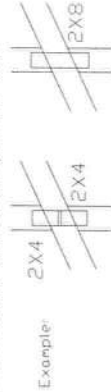


Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

① Refer to Engineered truss design for peak, splice, web, and heel plates.

② If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.



T Reinforcement Attachment Detail



To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITW gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, species, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	Increase
2x4	30 %
2x6	20 %

Example:

ASCE 7-10 Wind Speed = 120 mph

Mean Roof Height = 30 ft, $K_z = 1.00$

Gable Vertical = 24' o.c. SP #3

"T" Reinforcing Member Size = 2x4

"T" Brace Increase (from Above) = 30% = 1.30

(1) 2x4 "L" Brace Length = 8' 7"

Maximum "T" Reinforced Gable Vertical Length

1.30 x 8' 7" = 11' 2"

Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:

10d Common (0.148" x 3" min) Nails at 4' o.c. plus

(4) nails in the top and bottom chords.

Toenailed Nails:

10d Common (0.148" x 3" min) Toenails at 4' o.c. plus

(4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings

A13015980109, A12015980109, A11015980109, A10015980109,

A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings

A13015020109, A12015020109, A11015020109, A10015020109,

A13030020109, A12030020109, A11030020109, A10030020109

ASCE 7-05 Gable Detail Drawings

A13015050109, A12015050109, A11015050109, A10015050109,

A13030050109, A12030050109, A11030050109, A10030050109

ASCE 7-10 Gable Detail Drawings

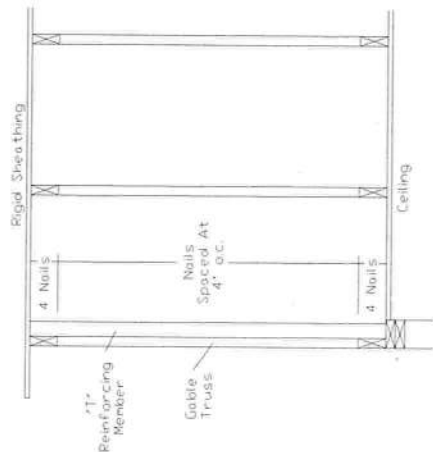
A11515ENC100212, A12015ENC100212, A14015ENC100212,

A16015ENC100212, A20015ENC100212, A22015ENC100212,

A11530ENC100212, A12030ENC100212, A14030ENC100212,

A16030ENC100212, A20030ENC100212, A22030ENC100212

See appropriate ITW gable detail for maximum length.



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the latest edition of the ITW Building Components Group Inc. (ITWBCG) Truss Installation Manual (TISM) for detailed instructions. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plus (+) and minus (-) signs to indicate bracing position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 100a-2 for standard plate positions.

ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing. Failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of the drawing by the manufacturer. The manufacturer's responsibility for the design shown, the suitability and use of the drawing for any structure, and the accuracy of the information contained herein, shall remain with ITWBCG. For more information see this job's general notes page and these web sites: ITWBCG: www.itwbcg.com; TPI: www.tpinet.org; VITCA: www.vitcaindustry.org; ICC: www.iccsa.org



REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212

MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

BLOCK LOCATION, SIZE, LENGTH, GRADE AND TOTAL NUMBER AND TYPE OF NAILS ARE TO BE SPECIFIED ON SEALED DESIGN REFERENCING THIS DETAIL.

LOAD PERPENDICULAR TO GRAIN

A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)

B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)

C - END DISTANCE (15 NAIL DIAMETERS)

LOAD PARALLEL TO GRAIN

A - EDGE DISTANCE (6 NAIL DIAMETERS)

C - SPACING OF NAILS IN A ROW AND END DISTANCE (15 NAIL DIAMETERS)

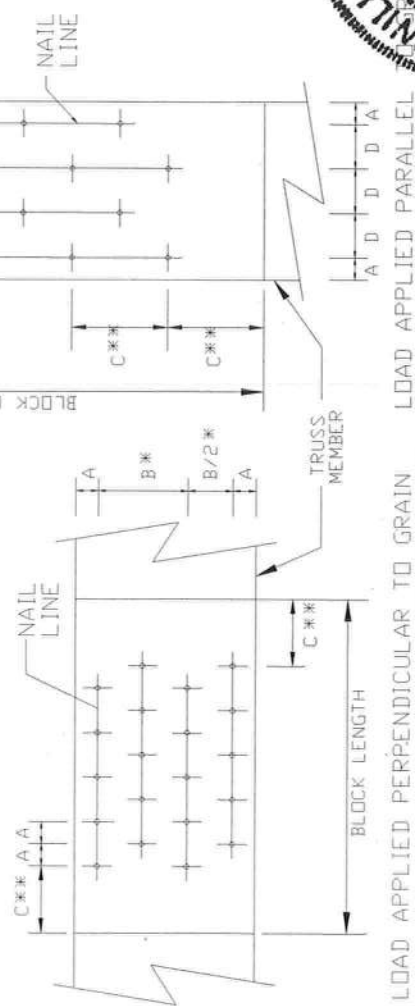
D - SPACING BETWEEN STAGGERED ROWS OF NAILS (7 1/2 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:

* SPACING MAY BE REDUCED BY 50%

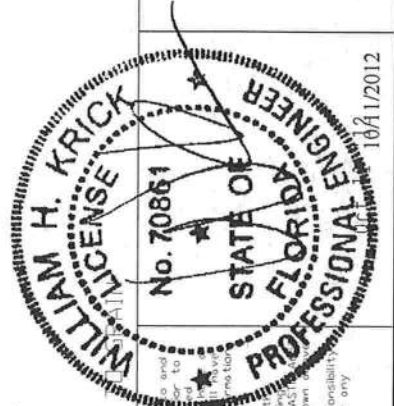
** SPACING MAY BE REDUCED BY 33%

DIRECTION
OF LOAD AND
NAIL ROWS



MINIMUM NAIL SPACING DISTANCES

NAIL TYPE	DISTANCES			
	A	B*	C**	D
8d BOX (0.113"X 2.5" MIN)	3/4"	1 3/8"	1 3/4"	7/8"
10d BOX (0.128"X 3" MIN)	7/8"	1 5/8"	2"	1"
12d BOX (0.128"X 3.25" MIN)	7/8"	1 5/8"	2"	1"
16d BOX (0.135"X 3.5" MIN)	7/8"	1 5/8"	2 1/8"	1 1/8"
20d BOX (0.148"X 4" MIN)	1"	1 7/8"	2 1/4"	1 1/8"
8d COMMON (0.131"X 2.5" MIN)	7/8"	1 5/8"	2"	1"
10d COMMON (0.148"X 3" MIN)	1"	1 7/8"	2 1/4"	1 1/8"
12d COMMON (0.148"X 3.25" MIN)	1"	1 7/8"	2 1/4"	1 1/8"
16d COMMON (0.162"X 3.5" MIN)	1"	2"	2 1/2"	1 1/4"
GUN (0.120"X 2.5" MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 2.5" MIN)	7/8"	1 5/8"	2"	1"
GUN (0.120"X 3" MIN)	3/4"	1 1/2"	1 7/8"	1"
GUN (0.131"X 3" MIN)	7/8"	1 5/8"	2"	1"



WARNING: READ AND FOLLOW ALL NOTES ON THIS SHEET.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to the Building Components Group Inc. (BGC) Truss Installation Manual for detailed instructions on performing these functions. Installing trusses without proper bracing can result in structural failure. Otherwise, top chord shall have properly attached structural panels and bottom chord shall have properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall be braced installed per BCS sections B3 & B7. See this job's general notes page for more information.

IMPORTANT: FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.

ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from the design, any failure to build the truss in conformance with TPI or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 2018/160A (2018/57K) A513 steel, grade 374/160 (2018/57K) galv. steel. Apply plates to each face of truss, positioned as shown on drawing. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility. Building is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2. ITW-BGC www.itwbcg.com, TPI www.tpinet.com, ITCA www.itcindustry.com, ICC www.iccsafe.org



Earth City, MO 63045

REF NAIL SPACE
DATE 1/1/09
DRWG CNNAILSP0109

10/1/2012