

DESIGN CRITERIA

ZONES: WIND 1, ROOF MIDDLE, TEMP III TOTAL ROUGH WINDOW OPENINGS: 88.5 SF



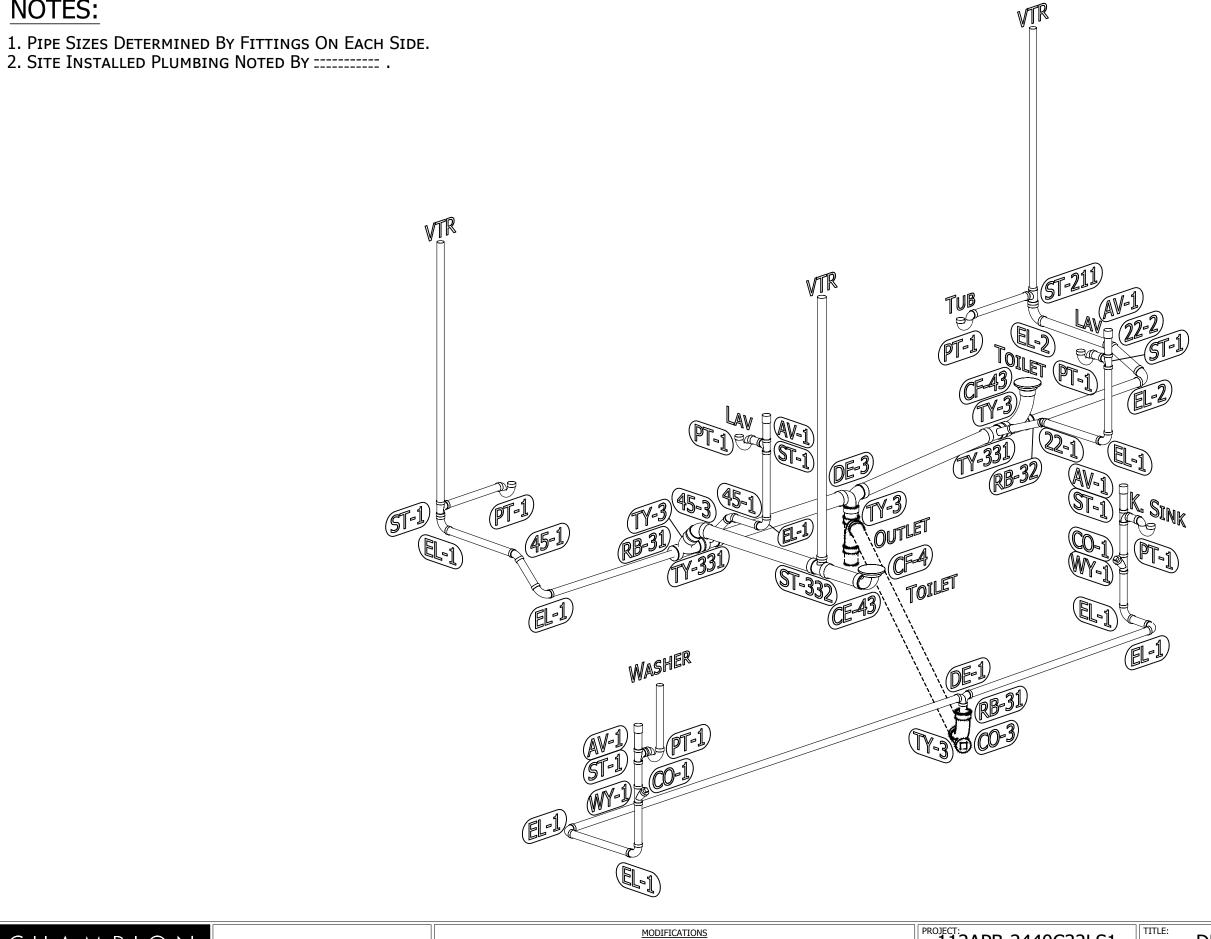
Overall Check =	PASS			CHB Shear Wall - Layout / Design					Model#:	1:	12-C81251	2-14									
Wind Zone =	1		Diaphragm (	Constructi	ion:	En	steners		Wall Cons	truction											+
Wind Load =	15	psf		gm Type =			GAx1.75		vvaii Cons	truction:					Gro	und Tie Ch	art				+
Willia Load =	13	psi	Diapina	siii iype –	WOO	u 1001   150	GAX1.75	Potto	m Plate Th	nicknoss –	2x				l dio	l le ch	Ī				+
Module Width =	140	in	Minimur	n Width =		in		W. C.	op Plate Th	1019 2010 9 419 1 4 94 5 4	2x			Peir	Near Beam	Far Beam	Ground Tie	Max.			+
Number of Boxes =	2	""		Max plf =		plf			op i late ii	IICKIIE33 –	21			Height	Angle	Angle	Spacing	Spacing			+
Wall Height =	96	in	Max. End Wall R			lbs			Wall to Flo	nor loist =	#10	x 3.5''		(in.)	(Deg.)	(Deg.)	(ft)	(ft.)			-
Roof Pitch =	4.36	:12	Max. Interior R		- '	lbs			to Ceiling		#10	x 3.5"		12	53.55		9.24	9'-2''			+
Angle =	20.0	0		ax. Span =	-	ft.			ll to Wall F		#10	x 3.50"		20	61.56	14.53	15.06	15'-0''			+
Roof Overhang =	8	in	IVIC	ax. Spail –	50.00	10.		VVa	ii to waii i	asterier –	#10	x 3.30		28	66.85	18.17	14.86	14'-10"			+
Floor Joist Spacing =	16	in o.c.	Floor Consti	ruction:										36	70.54	21.67	14.46	14'-5''			+
Rim Joist Plies =	1	111 0.c.	11001 CONSCI	uction.										44	73.25	25.01	14.10	14'-1''			+
Frame Spacing =	99.5	in	Floor I	oist Size =	2x6									52	75.31	28.18	13.71	13'-8''			+
Beam Depth =	10	in	Floor Joist	a. c a a a a	SPF									60	76.93	31.16	13.31	13'-3''			+
Open Porch =	0.00	ft.	Floor Jois	•	#3									68	78.23	33.97	12.90	12'-10"			
Home Length =	40.00	ft.	Decking Glued	to a commentation	Yes									1		33.31	.2.50				+
e.ne zengui –	.0100	1	Decking Graca	-555565	103														* For mo	noslope ho	omes
Vertical Trib =	4.00	ft	Vertical Trib =	4.00	ft	Vertica	al Trib =	4.00	ft	Ve	rtical Trib =	4.00	ft	V	ertical Trib =	4.00	ft	Ve	rtical Trib =	4.00	ft
King Post Height *=	1.00	in.	King Post Height *=	1.00	in.	King Post He		1.00	in.		t Height *=	1.00	in.		st Height *=		in.		st Height *=	1.00	in
Porch End Wall =			Porch End Wall =			Porch End					End Wall =		1		h End Wall =				End Wall =		-
	d Wall She	ar Wall		hear Wall	2	T OTCH EN		near Wall	3	1 0101		hear Wal	14	1010		Shear Wall	5	10101		hear Wall	16
Dist. To Next SW =	40.00	ft.	Dist. To Next SW =	Treat train	ft.	Dist. To Ne	-	icai iraii	ft.	Dist. To	Next SW =	Treat train	ft.	Dist. T	o Next SW =		ft.			iicai iiai	Ť
Manual Input =			Manual Input =		1		l Input =				ual Input =		1		nual Input =			Mar	nual Input =		
Load to Shearwall =	1200.0	lbs	Load to Shearwall =	1200.0	lbs	Load to Shea		0.0	lbs		Shearwall =	0.0	lbs		Shearwall =	0.0	lbs	1	Shearwall =	0.0	Ik
20dd to orredrivan	1200.0	1.00	Loud to direct Wall	1200.0	100	2000 10 0110	ar train	0.0	123	2000 10 1	, i cai i cai	0.0	1.00	204410	onean man	0.0	1.00	2044 10		0.0	1.2
Pa	anel Layo	ut	Р	anel Layo	ut		Pa	nel Layou	ıt		F	Panel Layo	ut		P	Panel Layou	ut		P	anel Layo	ut
rom Module Edge =	6.00	in.	From Module Edge =	6.00	in.	From Module	e Edge =		in.	From Mod	dule Edge =		in.	From Mo	dule Edge =		in.	From Mo	dule Edge =		ir
Panel Length =	96.00	in.	Panel Length =	48.00	in.	Panel L	ength =		in.	Pan	el Length =		in.	Pa	nel Length =		in.	Pan	el Length =		ir
rom Module Edge =		in.	From Module Edge =	92.00	in.	From Module			in.	From Mod	dule Edge =		in.		dule Edge =		in.		dule Edge =		ir
Panel Length =		in.	Panel Length =	48.00	in.	Panel L	ength =		in.	Pan	el Length =		in.	Pa	nel Length =		in.	Pan	el Length =		ir
Shearwall plf =	150.0	plf	Shearwall plf =	150.0	plf	Shearw	vall plf =	N/A	plf	She	arwall plf =	N/A	plf	She	earwall plf =	N/A	plf	She	arwall plf =	N/A	р
																					$\perp$
Shearwall Panel =		sum	Shearwall Panel =		osum	Shearwall					vall Panel =			_	wall Panel =		ı	-	vall Panel =		
Gyp. Brand =	U.S.G.		Gyp. Brand =	U.S.G.		Gyp.	Brand =			G	yp. Brand =			(	Gyp. Brand =			-	yp. Brand =		4
Fasteners =	Yes		Fasteners =	Yes			teners =				Fasteners =				Fasteners =			-	Fasteners =		$\perp$
Adhesive =	P'	VA I	Adhesive =	P	VA		hesive =				Adhesive =		_		Adhesive =				Adhesive =		
One Side or Two =	1		One Side or Two =	1	1.5	One Side o					de or Two =				ide or Two =			-	de or Two =		4
Max. Shearwall plf =		plf	Max. Shearwall plf =	247	plf	Max. Shearw			plf		arwall plf =		plf	Max. She	earwall plf =		plf	Max. She	arwall plf =		р
*Construct per	Note 6 on	SW01.35.X)	X *Construct pe	r Note 6 on	SW01.35.XX	X *Co.	nstruct per	SW01.25.0	1		*Construct pe	r SW01.25.	01		*Construct pe	er SW01.25.0	01		*Construct per	r SW01.25.	.01
7000 10	71 1		7000 10	71.3		7.	200 10				Zone ID				Zono ID				Zona ID		
Zone - ID	Z1-1		Zone - ID	Z1-2			one - ID				Zone - ID				Zone - ID				Zone - ID		
Joist Well Comp	2		Joist Well Comp	2			Joist				Joist Wall Conn				Joist Well Conn				Joist Well Conn		4
Wall Conn.	8		Wall Conn.	8			all Conn.				Wall Conn.				Wall Conn.				Wall Conn.		4
SC O.C.	12 @ 8"		SC O.C.	12 @ 8''			C O.C.				SC O.C.				SC O.C.				SC O.C.		4
SF O.C.	16 @ 6"		SF O.C.	16 @ 6''			SF O.C.				SF O.C.				SF O.C.				SF O.C.		4
Beam Lag		]	Beam Lag	2	_		eam Lag				Beam Lag				Beam Lag				Beam Lag		4
*May be 1 joist	per Note 9.  PASS	L. on SW01.0	00.04 *May be 1 jois: <b>Result =</b>	t per Note 9.  PASS	C on SW01.00		esult =				Result =				Result =				Result =		+
Result =	FA33		Result =	PA33		KE	esuit =				nesuit =				nesuit =				nesuit=		+
													2APB-2 40'-0"			TITLE:		1	SHEET		_

HOME BUILDERS 755 W. BIG BEAVER ROAD, SUITE 1000 TROY, MI 48084 PHONE: 248-614-8200 40'-0" x 23'-4" 3 BD 2 BT

SCALE: NTS

DRAWN BY: J.RILEY FILENAME: 112APB-2440C32LS1 DATE: 05-09-24

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F	TITING SCHEDULE	FITTING SCHEDULE					
CALL	Name	CALL	NAME				
22-1	1 1/2" 22 1/2° ELL	EL-1	1 1/2" LT 90° ELL				
22-2	2" 22 1/2° ELL	EL-2	2" LT 90° ELL				
45-1	1 1/2" 45° ELL	PT-1	1 1/2" P-TRAP				
45-3	3" 45° Ell	RB-31	3" x 1 1/2" Bushing				
AV-1	1 1/2" AUTO VENT	RB-32	3" x 2" Bushing				
CE-43	4" x 3" Closet Ell	ST-1	1 1/2" TEE				
CF-4	4" Closet Flange	ST-211	2" x 1 1/2" x 1 1/2" TEE				
CF-43	4" x 3" Closet Flange	ST-332	3" x 3" x 2" TEE				
CO-1	1 1/2" CLEANOUT	TY-3	3" LTTY				
CO-3	3" CLEANOUT	TY-331	3" x 3" x 1 1/2" LTTY				
DE-1	1 1/2" DOUBLE ELL	WY-1	1 1/2" WYE				
DE-3	3" Double Ell						

CHAMPIONHOME BUILDERS 755 W. BIG BEAVER ROAD, SUITE 1000' TROY, MI 48084 PHONE: 248-614-8200

NOTES:

112APB-2440C32LS1 40'-0" x 23'-4" 3 BD 2 BT DRAWN BY: A.GOULD DATE: 03-18-24

SCALE: 3/16" = 1'-0"

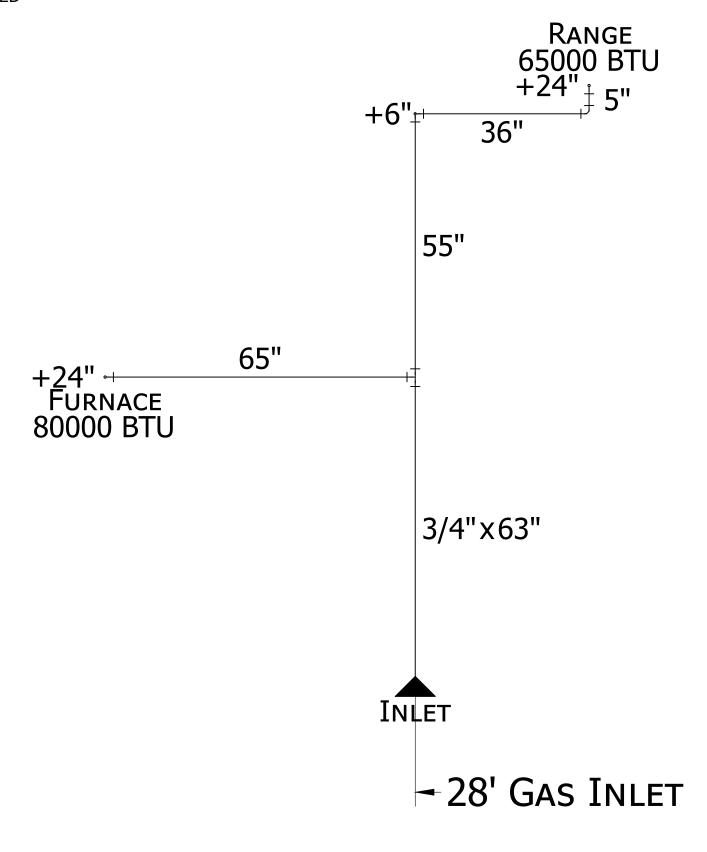
DRAIN LINE PLAN

D-101

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# NOTES:

- 1. ALL PIPE SIZES 1/2" UNLESS OTHERWISE SPECIFIED
- 2. TOTAL BTU = 145,000 3. COLUMN LENGTH = 20'-0"



MODIFICATIONS

CHAMPION						
HOME BUILDERS						
755-W. BIG BEAVER ROAD, SUITE 1000* TROY, MI 48084 PHONE: 248-614-8200*						

112APB-2440C32LS1 40'-0" x 23'-4" 3 BD 2 BT DRAWN BY: A.GOULD DATE: 03-18-24

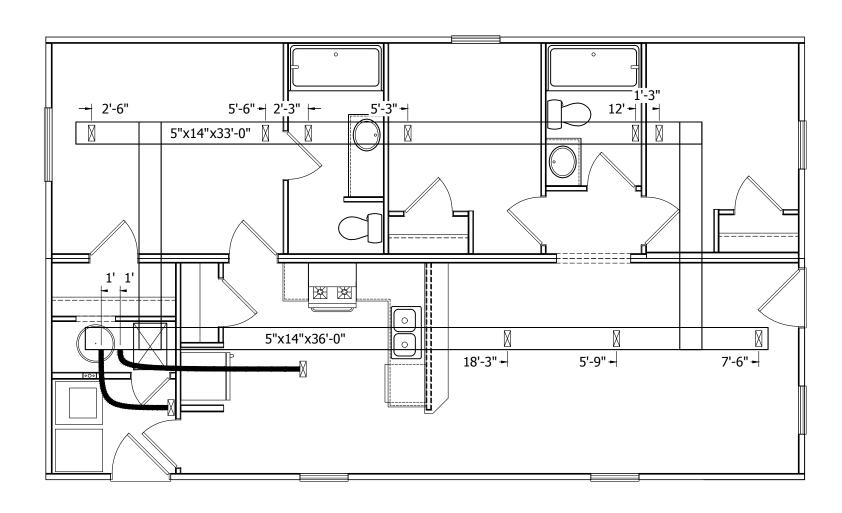
SCALE: 3/16" = 1'-0"

GAS LINE PLAN

FILENAME: 112APB-2440C32LS1

G-101

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CHAMPION HOME BUILDERS	MODIFICATIONS	112APB-2440C32LS1 40'-0" x 23'-4" 3 BD 2 BT	MECHANICAL PLAN	M-101
HOME BUILDERS		DRAWN BY: A.GOULD	FILENAME: 112APB-2440C32LS1	PROPRIETARY AND CONFIDENTIAL
755 W. BIG BEAVER ROAD, SUITE 1000: TROY, MI 48084		DATE: 03-18-24		THESE DRAWINGS AND SPECIFICATIONS ARE ORIGINAL, PROPRIETARY AND CONFIDENTIAL MATERIALS OF CHAMPION.
PHONE: 248-614-8200		SCALE: 5/32" = 1'-0"		COPYRIGHT © 1976-2024 BY CHAMPION

1) THE MANUFACTURER ASSUMES NO RESPONSIBILITY FOR ACTUAL FOUNDATION DESIGN AND CONSTRUCTION.

- 2) ADDITIONAL BLOCKING IS REQUIRED AT EACH SIDE OF EXTERIOR DOORS AND AT EACH SIDE OF SIDEWALL OPENINGS GREATER THAN 4 FEET IN WIDTH (I.E., PATIO DOORS, PICTURE WINDOWS, ETC.).
- 3) FOR PIER REQUIREMENTS AT ENDWALL SEE FIGURE 8 IN THE INSTALLATION MANUAL.
- 4) ALL DWV, PLUMBING, GAS SUPPLY, ETC., DIMENSIONS ON PRINT MAY BE + OR 12".
- 5) IT WILL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR TO VERIFY THE PROPER LOCATION OF COLUMN SUPPORT BLOCKING AND TO VERIFY THE PROPER MATING LINE GROWTH DIMENSIONS BASED UPON ACTUAL SITE CONDITIONS AND REQUIREMENTS (DOUBLE WIDES ONLY).
- 6) ALLOW 1/2" AT MATING LINE FOR MATE UP GROWTH.
- 7) SEE SET-UP AND INSTALLATION MANUAL FOR PERIMETER BLOCKING REQUIREMENTS.

PERMANENT FOUNDATIONS: CHECK LOCAL BUILDING CODES AND REGULATIONS AND CONSULT A REGISTERED PROFESSIONAL OR STRUCTURAL ENGINEER WHEN YOU ARE SITING YOUR HOME ON A PERMANENT FOUNDATION (SUCH AS A FULL BASEMENT, CRAWL SPACE, OR LOAD BEARING PERIMETER FOUNDATION).

INTERMEDIATE PIERS SPACING PER INSTALL MANUAL QUANTITY PER INSTALL MANUAL FOOTER SIZE PER INSTALL MANUAL

PLEASE VERIFY I-BEAM SPREAD AND HOUSE MEASUREMENTS BEFORE STARTING FOUNDATION DESIGN.

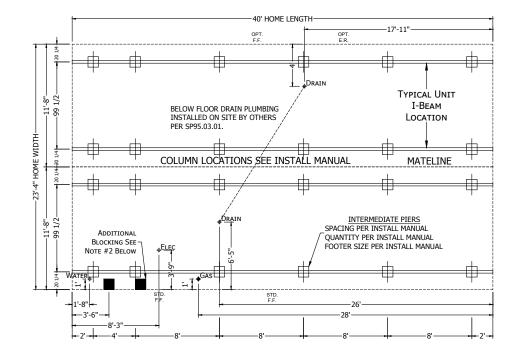
MANUFACTURER DISCLAIMER NOTICE: (THIS PIER PRINT IS FOR HOMES PRODUCED ON OR AFTER JUNE 1ST 2006)

PLEASE READ AND UNDERSTAND THE FOLLOWING INFORMATION. THE MANUFACTURER DOES NOT DO FOUNDATION INSTALLATION OF HOMES. IT WILL BE THE RESPONSIBILITY OF THE DEALER/SITE CONTRACTOR TO INSURE THAT ALL SITE WORK WILL CORRELATE WITH THE UNIT ORDERED.

NOTICE TO HOME INSTALLERS: MANUFACTURED HOMES WEIGH SEVERAL TONS. DO NOT ATTEMPT TO INSTALL ANY HOME ON SITE WITHOUT HAVING EXPERIENCE, KNOWLEDGE, AND UNDERSTANDING OF ALL INSTALLATION REQUIREMENTS. FAILURE TO MEET THESE REQUIREMENTS MAY RESULT IN SERIOUS INJURY OR DEATH TO AN INEXPERIENCED INSTALLER. INSTALLERS: PLEASE READ AND UNDERSTAND THE SET-UP AND INSTALLATION MANUAL SUPPLIED WITH THE HOME BEFORE ATTEMPTING ANY INSTALLATION OF ANY MANUFACTURED HOME.

PIERS ARE NOT REQUIRED AT 36" EXTERIOR DOORS WHEN "PIER SAVERS" ARE UTILIZED.

PIER SPACING IS FOR ILLUSTRATION ONLY. ACTUAL PIER SPACING SHOULD BE DETERMINED USING THE INSTALLATION MANUAL





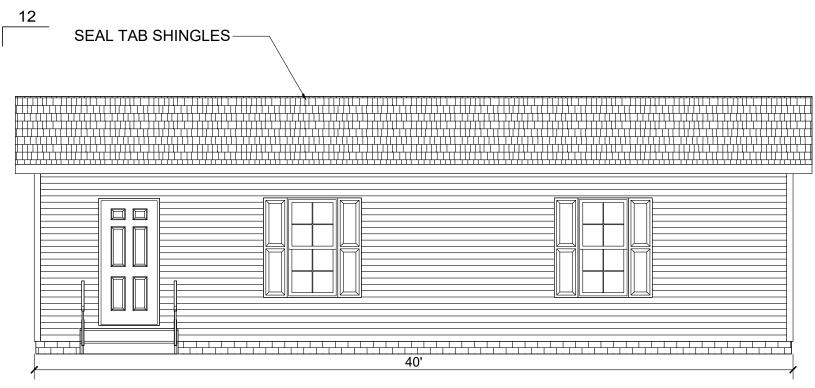
MODIFICATIONS

PROJECT: 112APB-2440C32LS1 40'-0" x 23'-4" 3 BD 2 BT DRAWN BY: A.GOULD DATE: 03-18-24 SCALE: 5/32" = 1'-0"

**PIER FOUNDATION** FILENAME: 112APB-2440C32LS1

PR-101

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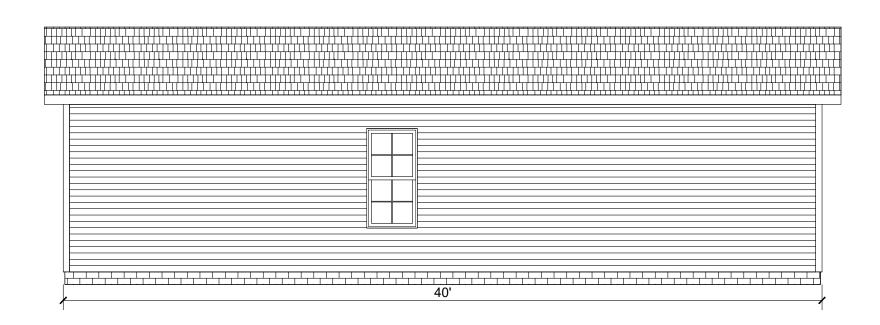
# 23'-4"

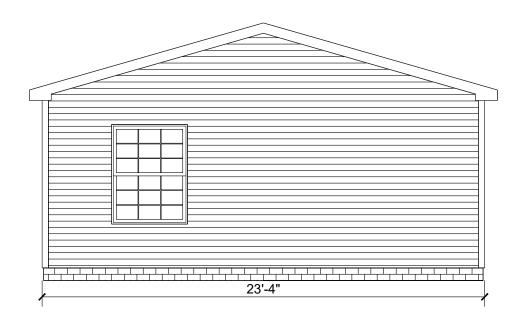
### **GENERAL NOTES:**

- 1. VINYL SHUTTERS SHOWN ARE STANDARD FRONT SIDE ONLY.
- 2. ALL WINDOWS SINGLE HUNG INSULATED LOW E.
- 3. SIDING IS VINYL LAP FACTORY APPLIED OVER 3/8" MIN OSB SHEATHING AND POLYETHYLENE FABRIC HOMEWRAP SHEATHING PAPER (PRIMEWRAP OR EQUAL) INSTALLED TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (SIDING FOR ENDS IS SHIPPED LOOSE FOR FIELD INSTALLATION BY OTHERS.)
- 4. PERIMETER ROOF OVERHANG IS PERFORATED METAL OR VINYL SOFFIT WITH VENTILATION TO THE ATTIC SPACE.

- 5. SOME STANDARD AND OPTIONAL FEATURES ARE SHOWN.
- 6. ALL GUTTERS, DOWN SPOUTS, STEPS AND HANDRAILS BY OWNER.
- 7. FOUNDATION WINDOWS AND/OR VENTS NOT SHOWN.
- 8. THIS HOME HAS ATTIC VENTILATION OF NOT LESS THAN 1/150th OF THE ATTIC AREA.

\* DESIGNATES FIELD WORK







MODIFICATIONS

112APB-2440C32LS1 40'-0" x 23'-4" 3 BD 2 BT

ELEVATIONS

EV-101

DRAWN BY: A.GOULD

DATE: 03-18-24

SCALE: 3/16" = 1'-0"

FILENAME: 112APB-2440C32LS1

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Truss M1054001

Truss Type MONO PITCH Qty 1

**CHAMPION HOMES 218** 

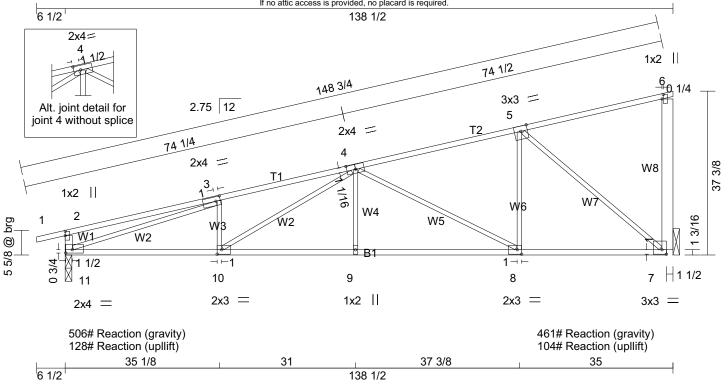
Universal Forest Products Inc., Grand Rapids, MI 49525, Michael Adams

7.530 e Mar 25 2014 MiTek Industries, Inc. Tue Jul 23 12:06:58 2019 Page 1 of 1

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Attic is not designed or to be used for storage. Access is provided for service or inspection only and house must be placarded per HUD Code.

If no attic access is provided, no placard is required.



SPACING LOADING		SPACING LOADING	1-4-0 (psf)	PLATES MT20
TCLL	30.Ó	TCLL	45.Ó	
TCDL	6.0	TCDL	9.0	CODE:
BCLL	0.0	BCLL	0.0	Proof Load 1.75 (Hud Non-Destruct)
BCDL	4.0	BCDL	6.0	

WIND ZONE I 2.5i 24" O/C WL NET UPLIFT -9 PSF -22.5 PSF WL(EAVES)

WIND ZONE I 2.5i 16" O/C -9 PSF WL NET UPLIFT -22.5 PSF WL(EAVES)

## I IIMRER.

TOP CHORD H\* 1-1/2 x 1-3/16 SPF Stud BOT CHORD H\* 1-1/2 x 1-3/16 SPF No.2 **WEBS** H\* 1-1/2 x 1-0/16 SPF Stud \*Except\*

W1: H\* 1-1/2 x 1-5/8 SPF Stud, W8: H\* 2x3 SPF Stud

# **NOTES**

- 1) Truss members shall not be cut, drilled, sliced, notched or otherwise altered without written approval of the design engineer.
- Manufacturing Tolerances: +- \( \frac{1}{4} \)" overall height, +- \( \frac{1}{4} \)" overall length, +- 1" vertical post/diagonal placement, +-1" vertical post/chord splice placement provided centerline of post is centered over the splice. Maximum allowable plate rotation ⊦- 10 degrees plates. Size and/or grade of lumber must be equal to or greater than what is noted on print.
- 3) Top chord overhang and/or soffit block may be cut back to the heel of the truss. Overhang may be mfg. at any length up to the maximum shown.
- 4) All connector plates to be placed +/- 1/4". For 1x2 plates provide 4 teeth bite (min) into each member (per plate, per side).
- For complete plate placement details, refer to the joint details published separately.
- 6) Field connections to secure the truss to other framing members are the responsibility of the home builder or others. Minimum bearing length is 1-1/2" unless noted otherwise.
- Top and bottom chords to be equally cambered.

  Chords & webs are to be certified from the specific grade & species of lumber noted above, per the 2013 UFP QC Manual sec. 4.1-4.9 and Appendix F.
- 9) This truss has been designed to meet MHCSS Sec. 3280.303, 3280.304, 3280.305, 3280.402 (Effective 1-13-2014). For HUD load cases on calculated designs, the snow load applied to the truss (TCLL) has not been reduced and is equivalent to the ground snow load indicated in the design loading box. For trusses qualified through full-scale testing all loads, including any loading from field installed cap members shown on the design prints, have been considered during the qualification of the truss assembly.
- 10) (H\*) H-data directory referenced for material.
- 11) Continuous lateral bracing or equivalent (i.e. roof sheathing, or drywall, etc.) required for top & bottom chords.



7/25/2019



WARNING - Verify design parameters and READ NOTES

2801 EAST BELTLINE RD, NE PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49525 This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible

for lifting methods and system design. Builder responsibilities are defined under section 2.3 & 2.4 of TPI1-2007. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult Building Component Safety information - June 2011 from Wood Truss Council of America and Truss Plate Institute recommendation available from Wood Truss Council of America 6300 Enterprise LN Madison, WI 53719 J:\support\MitekSupp\templates\ufp.tpe

