

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

09/02/2020

Boyd



ELEVATION NOTES:
GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.

ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE.

ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 4.0 SQ FT. THE MIN NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 22". THE MIN NET CLEAR OPENING WIDTH SHALL BE 20".

EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A SILL HEIGHT OF NO MORE THAN 44" FROM THE FLOOR. ALL WINDOW SIZES ARE NOMINAL AND ARE TO BE VERIFIED WITH MANUFACTURER FOR AVAILABILITY AND CONFORMITY TO STATE AND LOCAL CODE REQUIREMENTS.

PORCHES, BALCONIES, OR RAISED FLOOR SURFACES LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 36" IN HEIGHT.

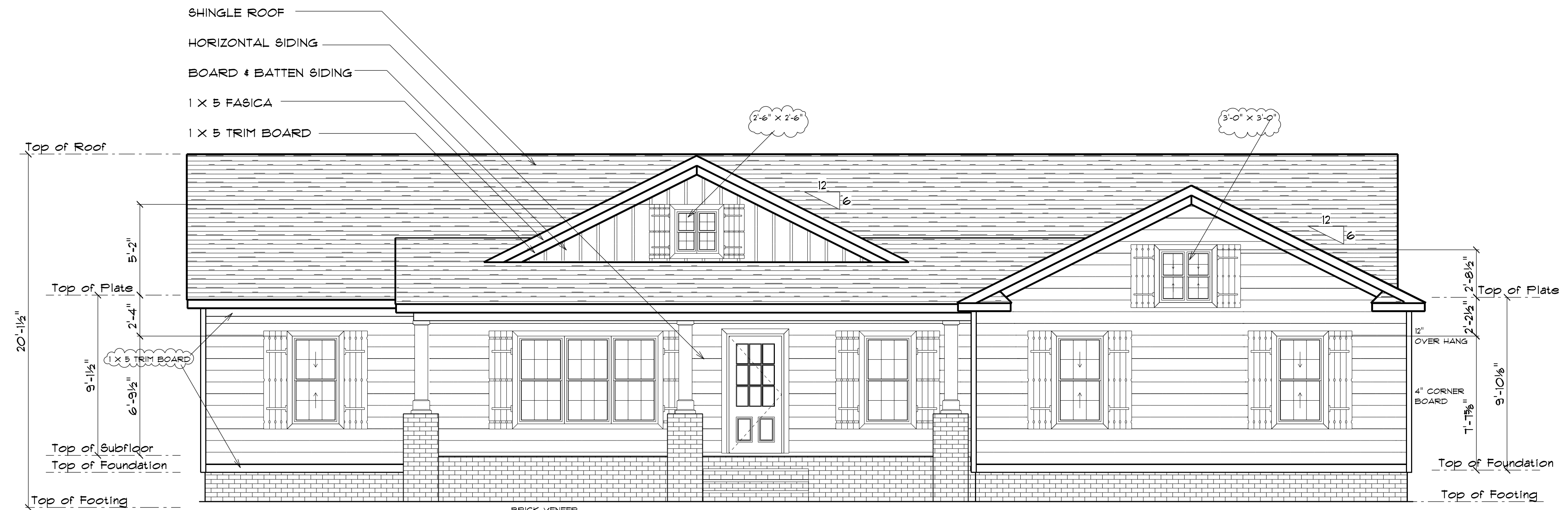
IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR/BUILDER TO CONSULT WITH HOME OWNER ON ALL INTERIOR AND EXTERIOR HOLDINGS, TRIMS, COLORS, FINISHES, CABINET LAYOUTS, AND MANUFACTURERS BEFORE CONSTRUCTION BEGINS. ALL BEAMS AND FRAMING MEMBERS ARE SIZED BY OTHERS.

1.1 This plan has been drawn to comply with the 2018 NC Building Code

1.2 Minimum Design Loads for Building and Other Structures ASCE 7-98

- 2 Roof Dead Load 15 P&F
- 3 Roof Live Load 20 P&F
- 4 Typical Floor Dead Load 10 P&F
- 5 Floor Live Loads
 - 5.1 Rooms other than sleeping rooms 40 P&F
 - 5.2 Sleeping Rooms 30 P&F
 - 5.3 Stairs 40 P&F
 - 5.4 Decks 40 P&F
 - 5.5 Exterior Balconies 60 P&F
- 6 Wind Loads
 - 6.1 Ultimate Design Wind Speeds 15 MPH
 - 6.2 Wind Importance Factor, I_w 1.00
 - 6.3 Exposure B
 - 6.4 Walls (Component and Cladding) 25 P&F
 - 6.5 Roofs (Component and Cladding)
 - 6.5.1 Roof Slopes 2.25/12 to 1/12 34.8 P&F
 - 6.5.2 Roof Slopes 1/12 to 12/12 21 P&F

It is the sole responsibility of the Contractor and/or Builder to conform to all standards, provisions, requirements, methods of construction and uses of materials provided in buildings and/or structures as required by NC Uniform Building Code, Local Agencies and in accordance with good engineering practices. Verify all dimensions prior to construction.



FRONT ELEVATION
SCALE: 1/4" = 1'



REAR ELEVATION
SCALE: 1/4" = 1'



LEFT ELEVATION
SCALE: 1/4" = 1'

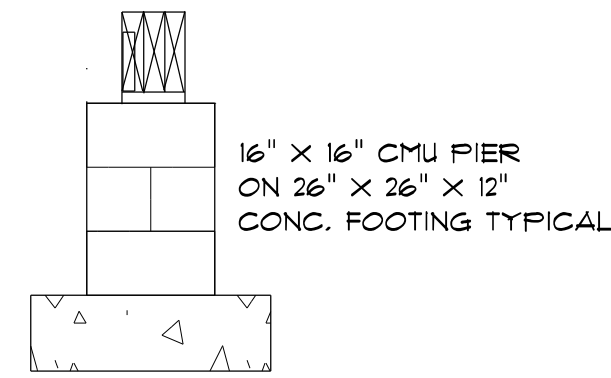


RIGHT ELEVATION
SCALE: 1/4" = 1'

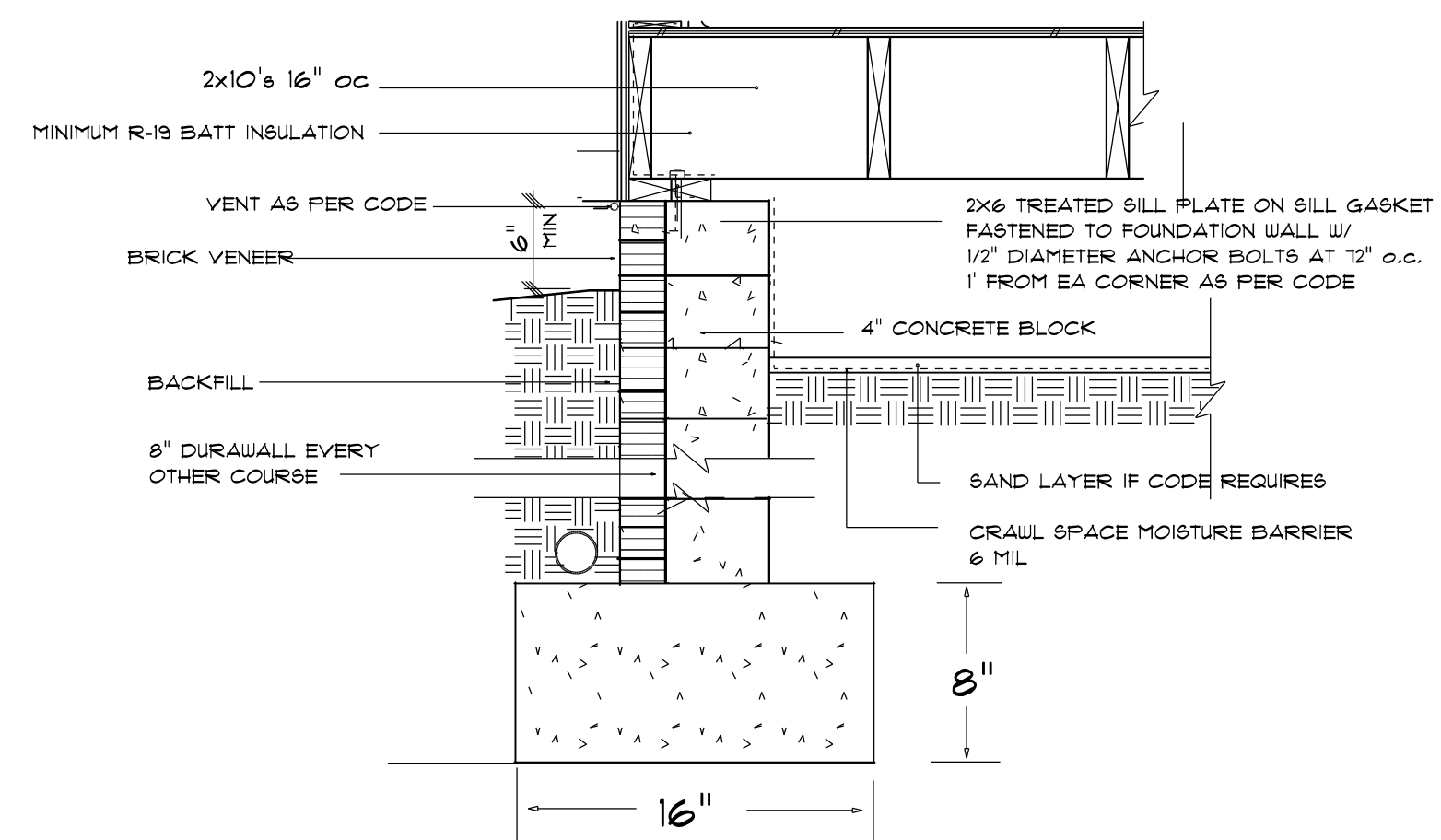
TYPICAL WALL: 8" BLOCK W/ 16" X 8" FOOTING
 TYPICAL WALL: BRICK & 4" BLOCK W/ 16" X 8" FOOTING
 3- 2 X 10'S GIRDER
 2 X 10'S 16" OC JOIST
 2- 2 X 10'S DBL JOIST

FOUNDATION NOTES:
 ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL.
 THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI.
 PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED.
 FOUNDATION CONCRETE MIX TO HAVE 1/2" MAX AGGREGATE SIZE. CONCRETE FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE.
 FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI.
 PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE.
 ALL ANCHOR BOLTS TO BE 12" LONG, 1/2" DIA. ALL UNO ANCHOR BOLTS SHALL BE 8" SPACE AT A MAX OF 6' OC AND NO MORE THAN 1' FROM EA CORNER.

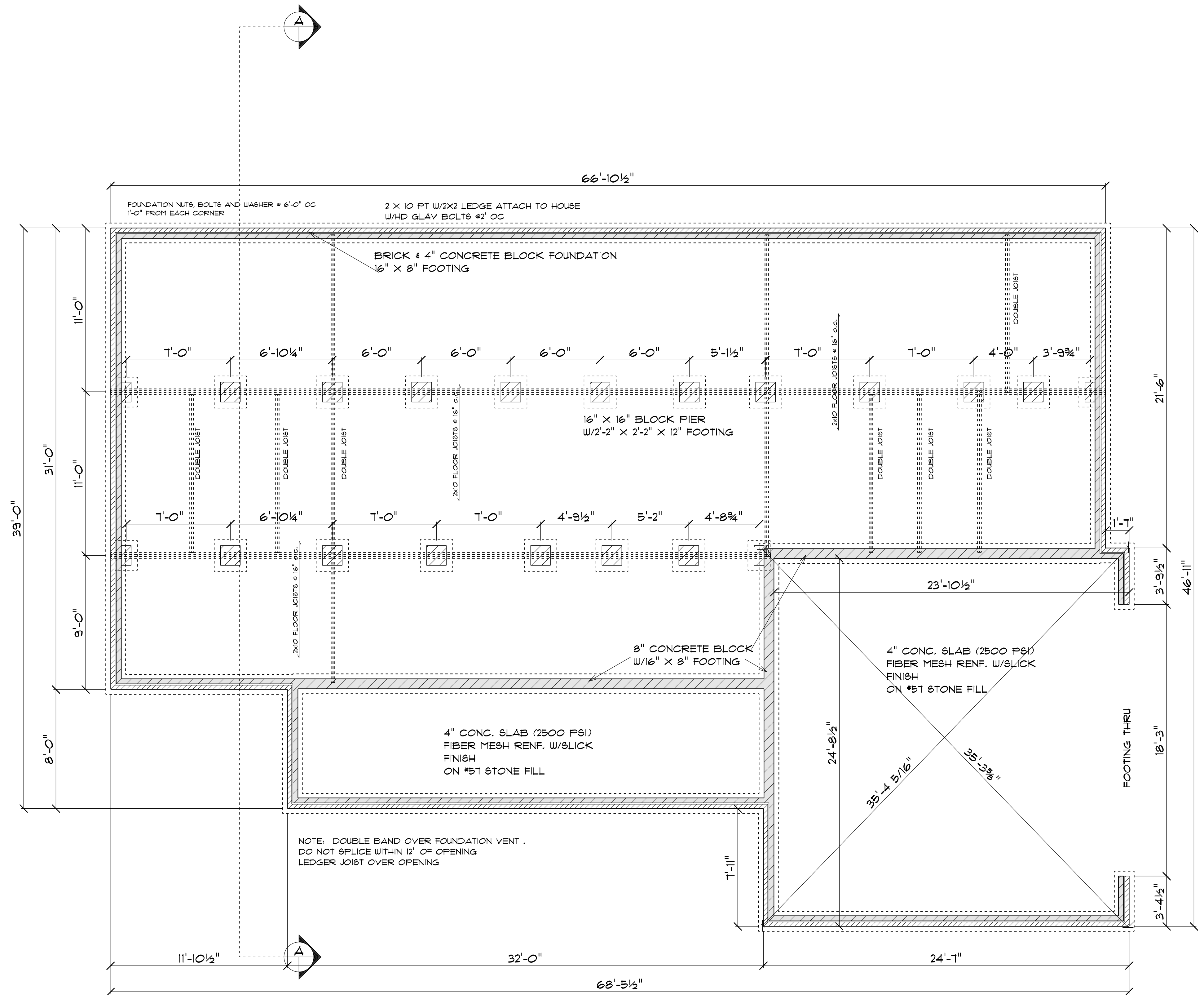
Termite Soil Treatment: Treat entire slab area soil or crawl space surface before vapor barrier is installed and slab is poured with a state approved termiticide. Termiticide should be applied by a licensed and certified pest control professional by the state of North Carolina.



CONCRETE BLOCK PIER DETAIL
 NOT TO SCALE



FOOTING & FOUNDATION DETAIL
 not to scale



FOUNDATION PLAN
 SCALE: 1" = 1/4"

GENERAL FRAMING NOTES:

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.

FRAMING LUMBER SHALL BE SYP #2 GRADE AND/OR SPRUCE PINE FIR #1 AND/OR #2, KILN DRIED.

WHERE PRE-ENGINEERED JOISTS ARE USED, JOIST MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL OF A N.C. ENGINEER.

STUDS AND JOISTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING WITHOUT ADDING METAL OR WOOD SIDE PANELS TO STRENGTHEN THE MEMBER TO ITS ORIGINAL CAPACITY.

NAIL MULTIPLE MEMBERS WITH 2 ROWS OF 16d NAILS STAGGERED 32" OC AN USE 3-16d NAILS 2" IN AT EACH END. DOUBLE ALL STUDS UNDER ROOF POST DOWNS UNO.

NAIL FLOOR JOISTS TO SILL PLATE WITH 8d TOE NAILS.

ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED.

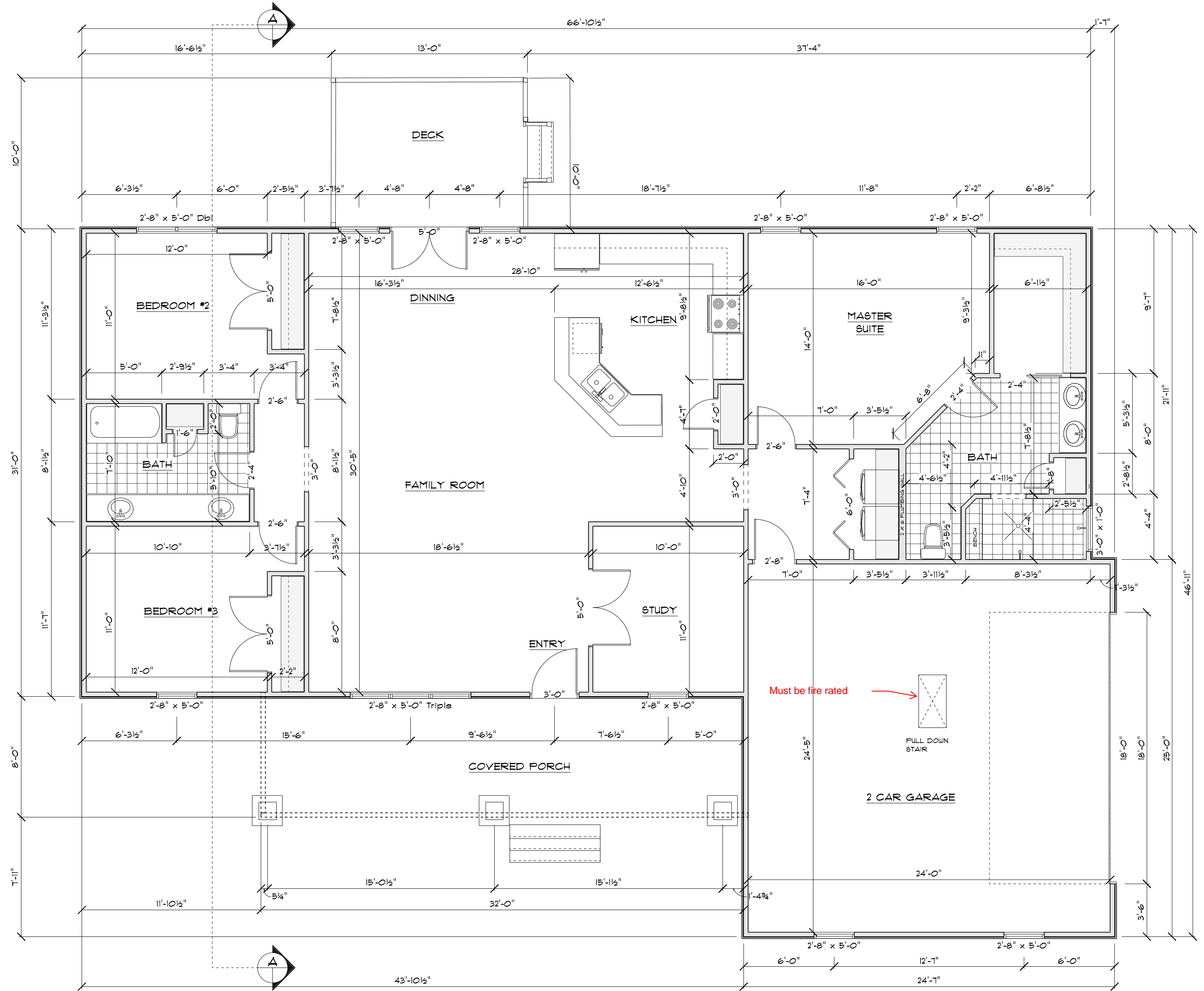
PROVIDE WATERPROOFING AND DRAINS AS REQUIRED.

ALL FRAMING TO BE 16" OC UNO. WALL FRAMING DIMENSIONS ARE BASED ON 2 X 4 STUDS UNO. DOUBLE STUDS UNDER ALL HEADERS.

LVL'S AND TJI'S TO BE SIZED BY OTHERS

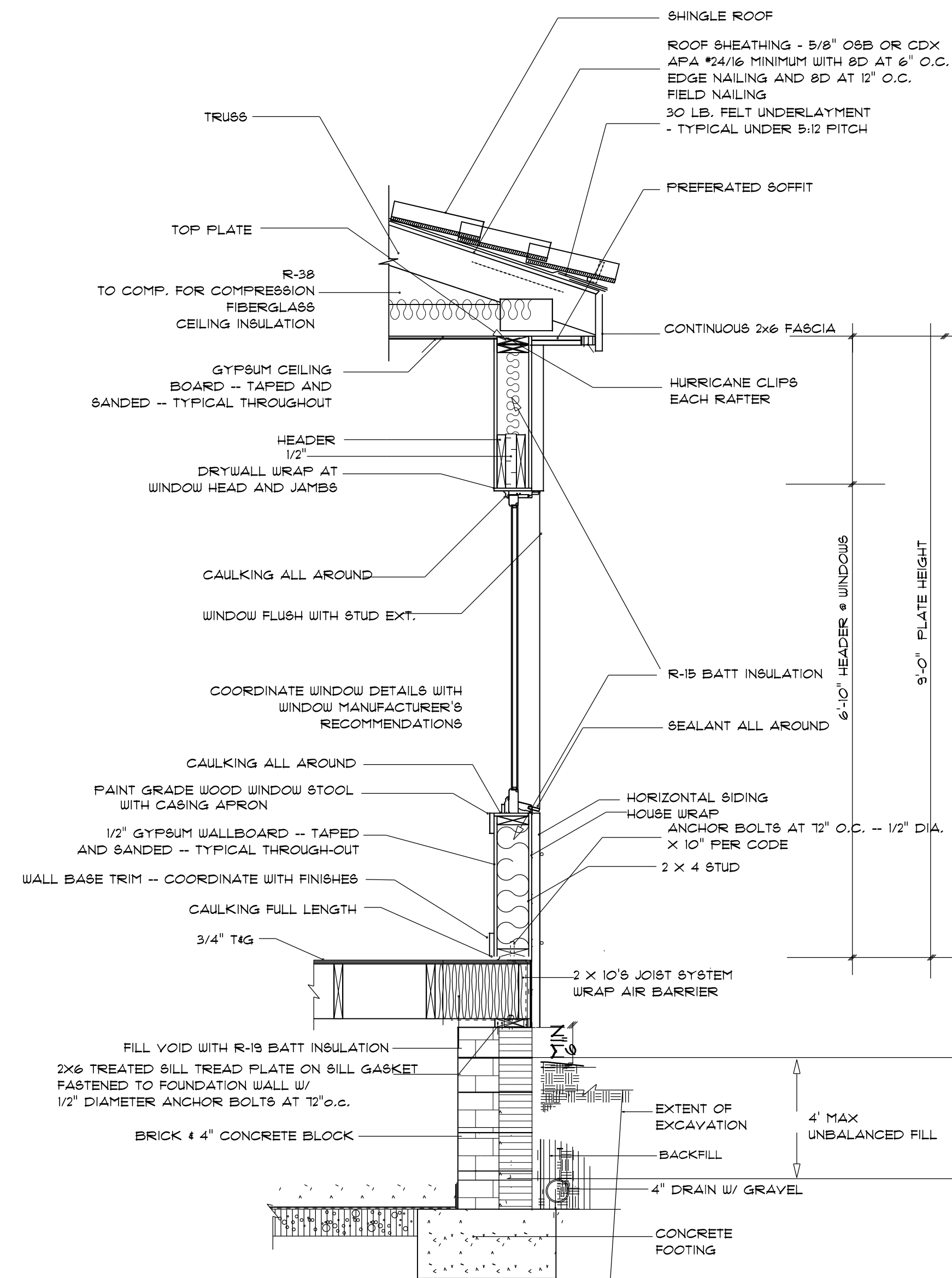
EXTERIOR WALLS IN LIVING AREAS ARE 2 X 4

SIZE	HINGE	COUNT	LIBRARY NAME
2'-8"	L	1	Exterior Door\Colonial
5'-0"	LR	1	Exterior Door\French
18'-0"	U	1	Garage
6'-0"	LR	1	Interior Door\Bifold
1'-6"	R	1	Interior Door\Colonial
1'-8"	L	1	Interior Door\Colonial
2'-0"	L	1	Interior Door\Colonial
2'-4"	L	1	Interior Door\Colonial
2'-4"	R	1	Interior Door\Colonial
2'-6"	L	2	Interior Door\Colonial
2'-6"	R	1	Interior Door\Colonial
5'-0"	LR	2	Interior Door\Colonial
5'-0"	LR	1	Interior Door\French
2'-4"	N	1	Interior Door\Pocket
3'-0"	R	1	Manufacturer\Jeld-Wen\Wood Entry\Classic\Oak
2'-8" x 5'-0"	Triple U	1	Window\Double Hung
2'-8" x 5'-0"	U	10	Window\Double Hung
2'-8" x 5'-0"	DbI	1	Window\Double Hung
2'-6" x 2'-6"	UU	1	Window\Double Hung
3'-0" x 3'-0"	UU	1	Window\Double Hung
3'-0" x 1'-0"	N	1	Window\Transom

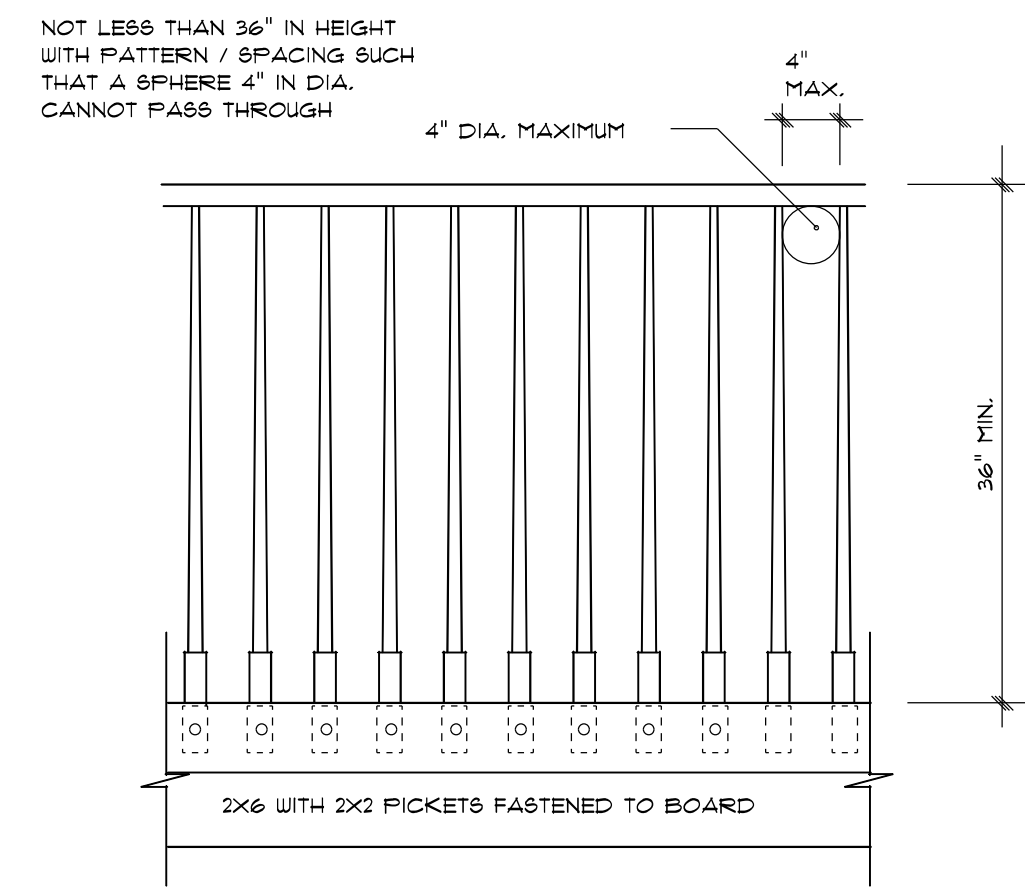


FLOOR PLAN
SCALE: 1" = 1/4"

NAME	AREA
Heated Sq Ft	1894.1 sq. ft.
Garage Sq Ft	616.7 sq. ft.
Covered Porch Sq Ft	251.0 sq. ft.
Treated Deck Sq Ft	193.7 sq. ft.

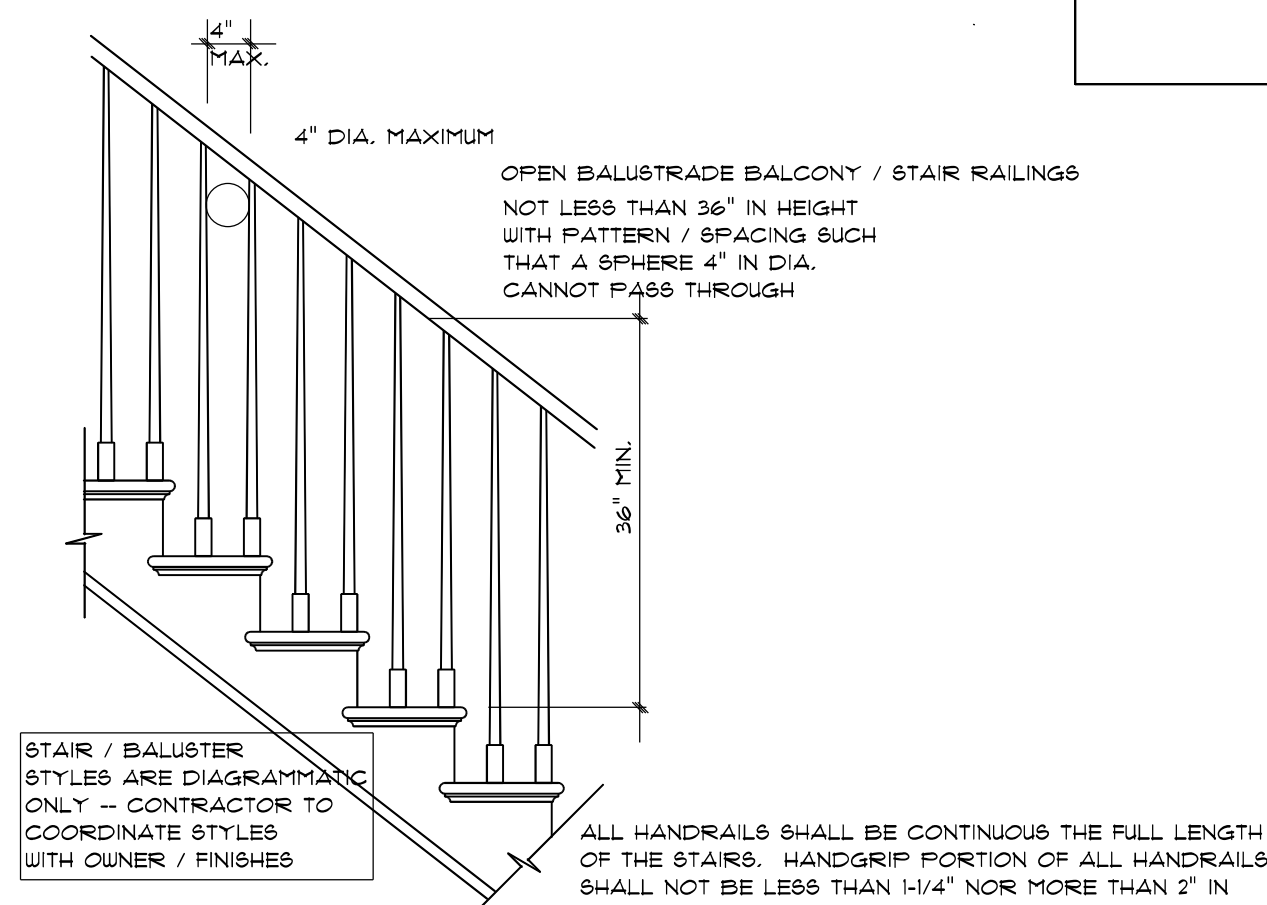


CRAWL SPACE FOUNDATION DETAIL
 not to scale



DECK RAILING DETAIL
 not to scale

HANDGRIP PORTION OF ALL HANDRAILS
 SHALL NOT BE LESS THAN 1 1/4" NOR MORE THAN 2" IN
 CROSS SECTIONAL DIMENSION, OR THE SHAPE SHALL
 PROVIDE AN EQUIVALENT GRIPPING SURFACE

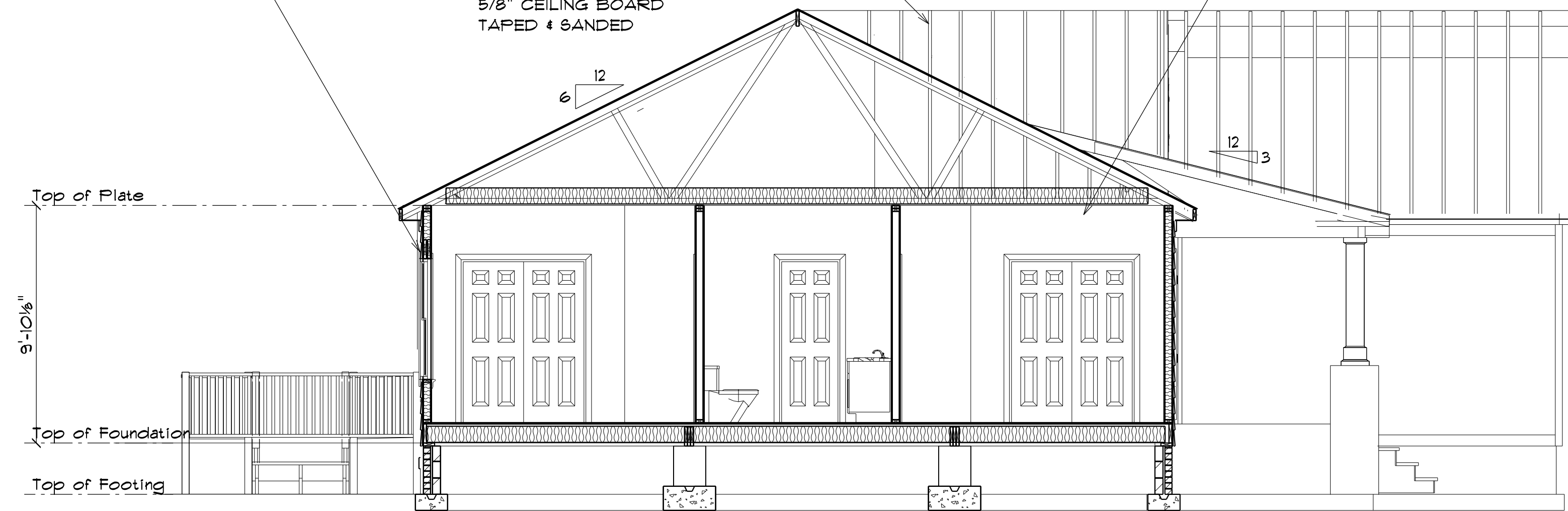


STAIR RAILING
 not to scale

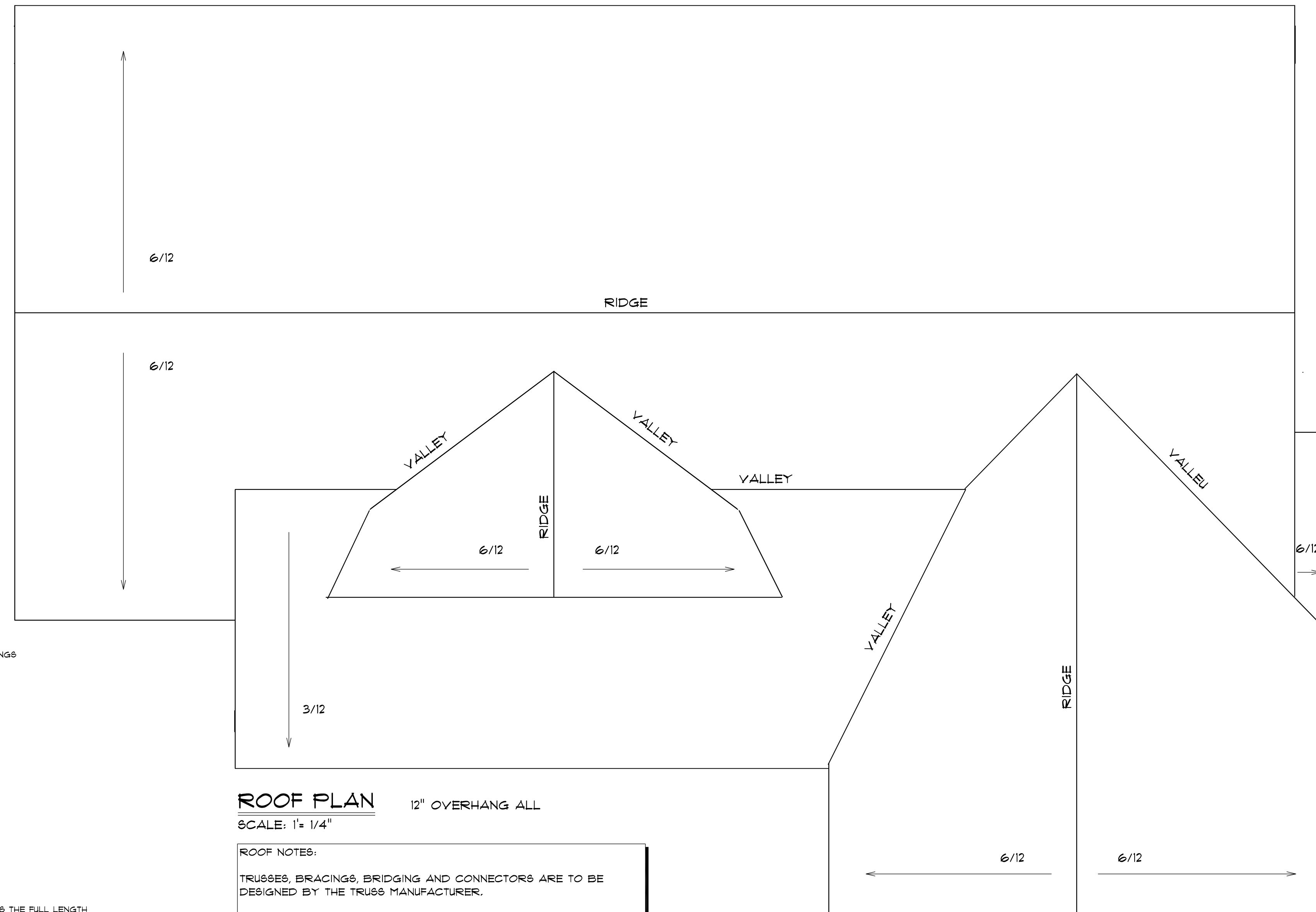
TYPICAL 2x4 SIDING EXTERIOR WALL:
 VINYL SIDING
 1/16" PLYWOOD SHEATHING
 2x4 STUDS @ 16" o.c.
 R15 BATT INSULATION
 1/2" DRYWALL
 TAPED & SANDED

TYPICAL TRUSS ROOF:
 SHINGLES
 1/16" ROOFING PLYWOOD c/w
 1/4" CLIPS
 BLOCK & BRACE PER TRUSS MGR.
 PRE-ENGINEERED TRUSSES @ 24" o.c.
 2x4 TRUSS BRACING
 R38 BLOWN INSULATION
 5/8" CEILING BOARD
 TAPED & SANDED

TYPICAL 2x4 WALL:
 1/2" DRYWALL
 TAPED & SANDED
 2x4 STUDS @ 16" o.c.
 1/2" DRYWALL
 TAPED & SANDED



SECTION A
 SCALE: 1" = 1/4"

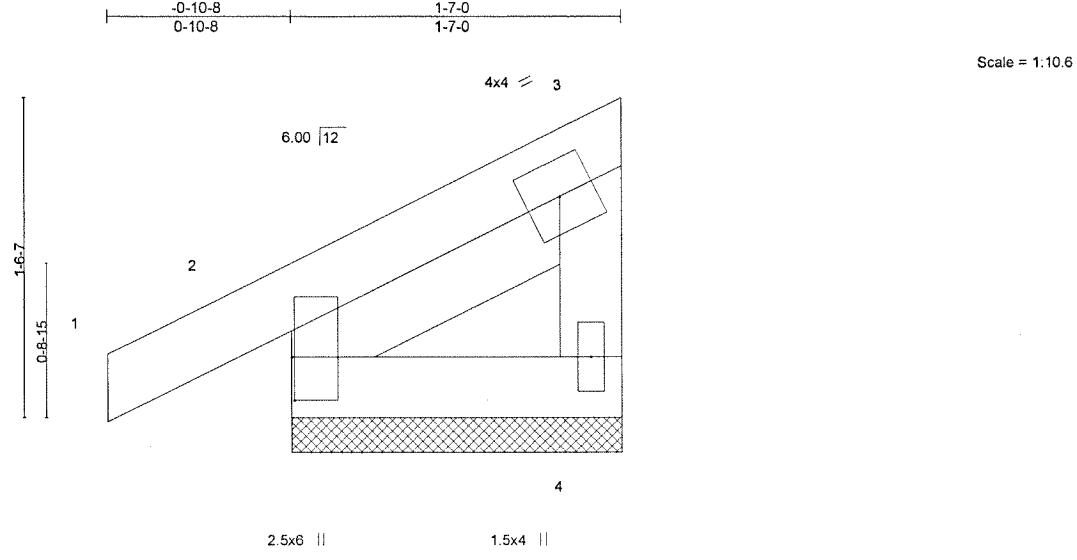


ROOF PLAN
 SCALE: 1" = 1/4"
 12" OVERHANG ALL

ROOF NOTES:
 TRUSSES, BRACINGS, BRIDGING AND CONNECTORS ARE TO BE
 DESIGNED BY THE TRUSS MANUFACTURER.
 IDENTIFY LUMBER BY OFFICIAL GRADE MARKINGS.
 DO NOT CUT OR REMOVE CHORDS OR OTHER TRUSS MEMBERS.
 DO NOT NOTCH OR DRILL TRUSS MEMBERS.
 WHERE PRE-ENGINEERED ROOF TRUSSES ARE USED, TRUSS
 MANUFACTURER SHALL PROVIDE SHOP DRAWINGS, WHICH BEAR SEAL
 OF A N. C. REGISTERED ENGINEER.

Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797303
P20-08023	M01	Monopitch Supported Gable	1	1		
Longleaf Truss Company, West End, NC - 27376,					Job Reference (optional)	

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:37 2020 Page 1
 ID:w2GdYv0to6hYYCPISh9TYyjN6N-Q0ILawH6wIKYzeF3EgIQI4ySYsbZjHgLL374IZ4yjMQS



LOADING (psf)		SPACING-		CSI.	DEFL.			PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	TC	in	(loc)	l/defl	L/d	
Snow (Pf/Pg)	11.6/15.0	1.15	Lumber DOL	BC	0.00	1	n/r	120	MT20
TCDL	10.0	1.15	Rep Stress Incr	WB	0.00	1	n/r	120	
BCLL	0.0	YES	Code IRC2018/TPI2014	Matrix-P	Horz(CT)	-0.00	4	n/a	
BCDL	10.0								Weight: 10 lb FT = 20%

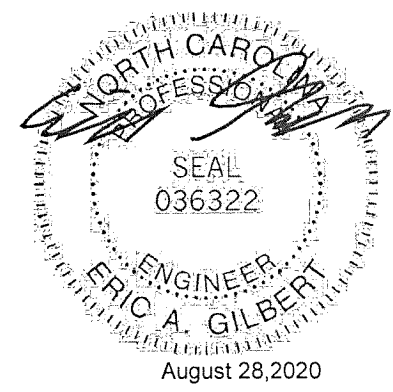
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -x 1-6-0

BRACING-
 TOP CHORD Sheathed or 1-7-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=1-7-0, 2=1-7-0
 Max Horz 2=35(LC 9)
 Max Uplift 4=-9(LC 9), 2=-26(LC 12)
 Max Grav 4=46(LC 24), 2=126(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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.
 - 3) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Alliance
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797304
P20-08023	T01	Common	11	1		
Longleaf Truss Company, West End, NC - 27376.					Job Reference (optional)	

8 330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:40 2020 Page 1
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 15-6-0 7-7-4 22-2-8 6-8-8

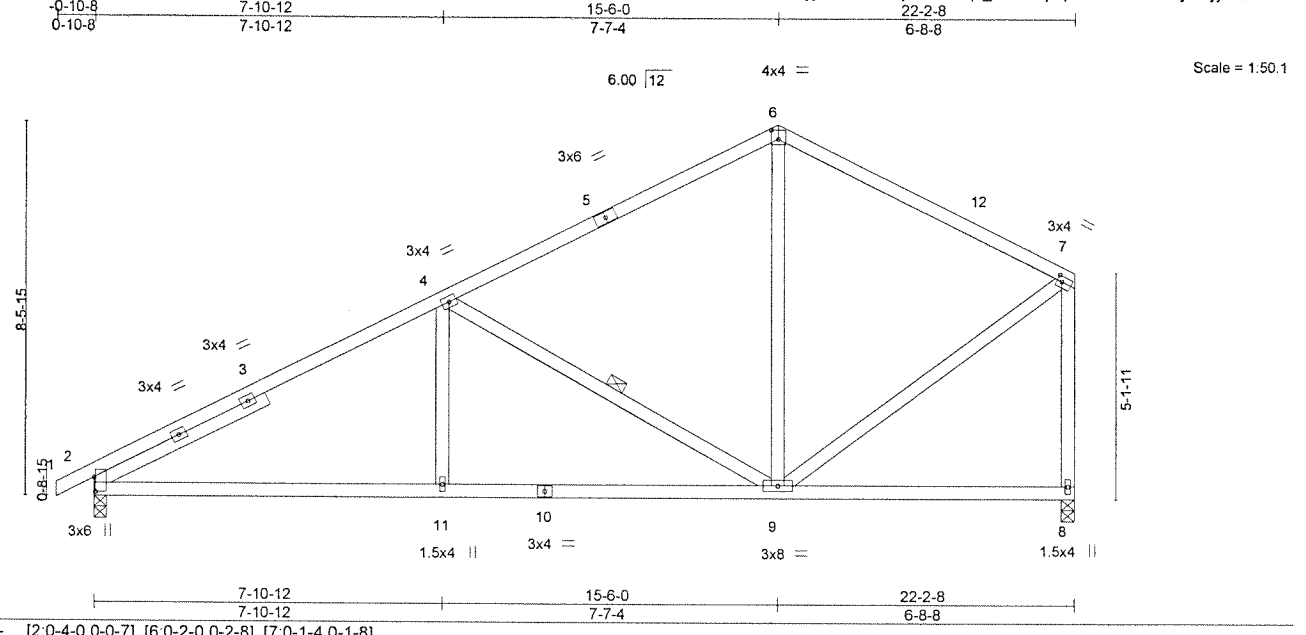


Plate Offsets (X,Y)--	[2:0-4-0,0-0-7], [6:0-2-0,0-2-8], [7:0-1-4,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.08 2-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.29	Vert(CT) -0.18 2-11 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 5-3-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-9
SLIDER Left 2x4 SP No.3 -x 4-4-11	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=205(LC 11)
 Max Uplift 2=-19(LC 12), 8=-2(LC 12)
 Max Grav 2=936(LC 2), 8=881(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1348/28, 4-6=-699/76, 6-7=-671/76, 7-8=-824/36
 BOT CHORD 2-11=0/1110, 9-11=0/1110
 WEBS 4-11=0/329, 4-9=-689/64, 6-9=0/259, 7-9=0/629

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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) 2, 8.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797305
P20-08023	T01GE	Common Supported Gable	1	1		
Longleaf Truss Company, West End, NC - 27376.		Job Reference (optional)				

8.330 s Jul 22 2020 MITek Industries, Inc. Fri Aug 28 09:25:43 2020 Page 1
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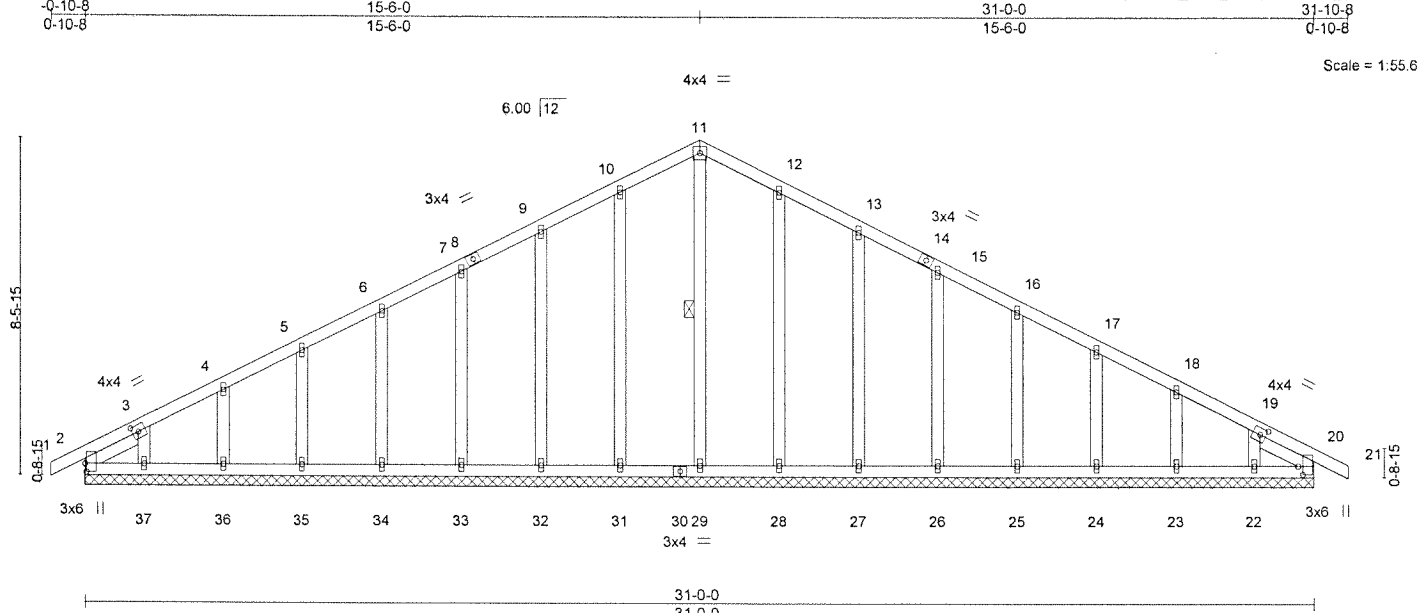


Plate Offsets (X,Y)--	[2:0-2-8,0-0-7], [3:0-1-13,0-2-0], [19:0-1-13,0-2-0], [20:0-2-8,0-1-7]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00 20 n/r 120	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 20 n/r 120		
TCDL 10.0	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 20 n/a n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S		Weight: 200 lb	FT = 20%
BCDL 10.0					

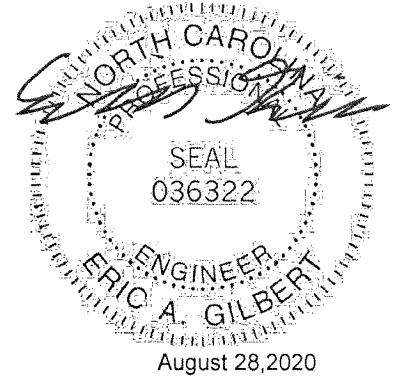
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3-x 1-6-13, Right 2x4 SP No.3-x 1-6-13

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 11-29

REACTIONS. All bearings 31-0-0.
 (lb) - Max Horz 2=-149(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22
 Max Grav All reactions 250 lb or less at joint(s) 2, 29, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22, 20

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=31ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 7) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 32, 33, 34, 35, 36, 37, 28, 27, 26, 25, 24, 23, 22.
 - 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797306
P20-08023	T01SGE	GABLE	1	1		

Longleaf Truss Company, West End, NC - 27376, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:47 2020 Page 1
 ID:w2GdYvOot6hYYCPIsh9TYjN6N-8yM7gLP0ZMb7AA0_pmTm9BM7Lu0b3mspNYVqwVjyMQI
 0-10-8 15-6-0 22-2-8 6-8-8
 0-10-8 15-6-0 22-2-8 6-8-8
 6.00 [12] 4x4 =
 Scale = 1:51.1

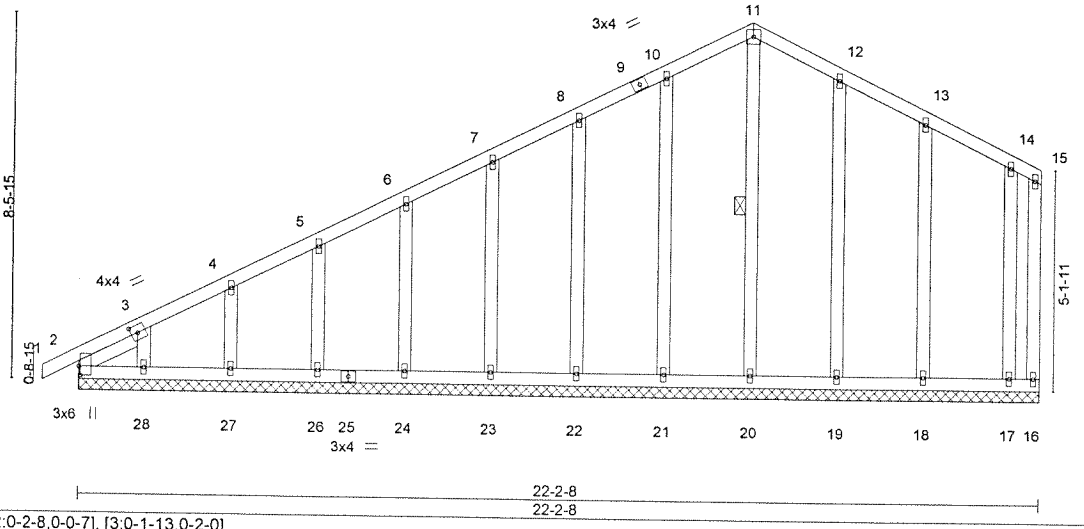


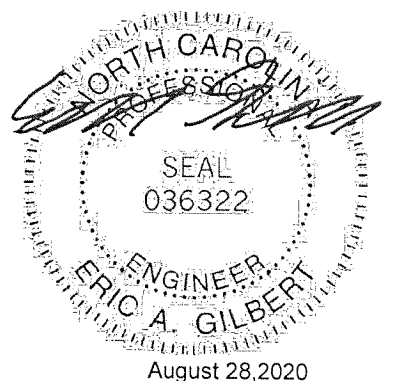
Plate Offsets (X,Y) - [2:0-2-8, 0-0-7], [3:0-1-13, 0-2-0]	
LOADING (psf)	SPACING- 2-0-0
TCLL (roof) 20.0	Plate Grip DOL 1.15
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15
TCDL 10.0	Rep Stress Incr YES
BCLL 0.0 *	Code IRC2018/TPI2014
BCDL 10.0	
CSL	DEFL. in (loc) l/defl L/d
TC 0.14	Vert(LL) -0.00 1 n/r 120
BC 0.03	Vert(CT) -0.00 1 n/r 120
WB 0.15	Horz(CT) -0.00 16 n/a n/a
Matrix-S	
PLATES	GRIP
MT20	244/190
Weight: 160 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 11-20
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -x 1-6-13	

REACTIONS. All bearings 22-2-8.
 (lb) - Max Horz 2=205(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 21, 22, 23, 24, 26, 27, 28, 19, 18, 17
 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 20, 21, 22, 23, 24, 26, 27, 28, 19, 18, 17

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 21, 22, 23, 24, 26, 27, 28, 19, 18, 17.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 28, 2020

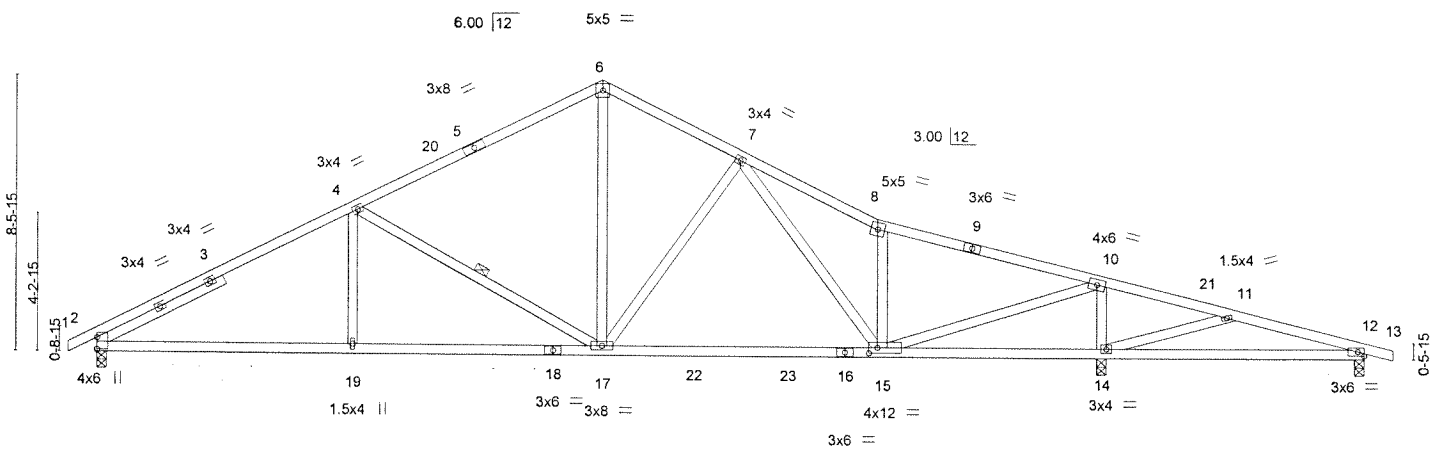
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIH-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797307
P20-08023	T02	Roof Special	16	1		
Longleaf Truss Company, West End, NC - 27376,					Job Reference (optional)	

ID:w2GdYv0oto6hYYCPISh9TYyJN6N-0jbdWjSubb5ZenKI2cYiJ1XfHVDy?OZPHAT13GyjMQE

0-10-8	7-10-12	15-6-0	19-9-0	24-0-0	30-10-4	34-8-12	39-0-0	39-10-8
0-10-8	7-10-12	7-7-4	4-3-0	4-3-0	6-10-4	3-10-8	4-3-4	0-10-8

Scale = 1:67.8



7-10-12	15-6-0	24-0-0	30-10-4	39-0-0
7-10-12	7-7-4	8-6-0	6-10-4	8-1-12

Plate Offsets (X,Y)-- [15:0-3-4,0-2-0]

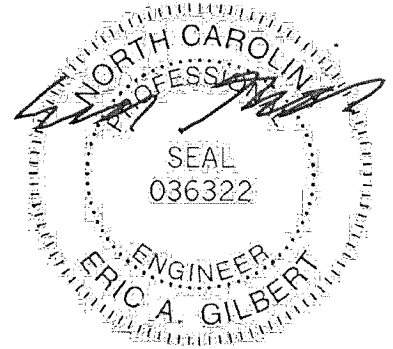
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.79	in (loc) l/def L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.65	Vert(LL) -0.22 15-17 >999 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.93	Vert(CT) -0.39 15-17 >958 180		
BCLL 0.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.05 14 n/a n/a		
BCDL 10.0				Weight: 207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-7-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-17
SLIDER Left 2x4 SP No.3 -x 4-4-11	

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 12=0-3-8
 Max Horz 2=144(LC 10)
 Max Uplift 2=21(LC 12), 12=26(LC 12)
 Max Grav 2=1371(LC 24), 14=2001(LC 25), 12=199(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2135/33, 4-6=-1437/77, 6-7=-1406/85, 7-8=-1774/81, 8-10=-1604/25, 10-11=-1/709, 11-12=0/321
 BOT CHORD 2-19=0/1905, 17-19=0/1905, 15-17=0/1401, 14-15=-659/35, 12-14=-281/0
 WEBS 4-19=0/314, 4-17=-744/70, 6-17=0/908, 7-17=-363/72, 7-15=-9/303, 8-15=-673/90, 10-15=0/2279, 10-14=-1608/75, 11-14=-427/57

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



August 28, 2020

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Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797308
P20-08023	T02GE	Common Supported Gable	1	1		

Longleaf Truss Company, West End, NC - 27376, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:53 2020 Page 1
 ID:w2GdYv0to6hYYCPISh9TYyjN6N-y5jOxOU99CLGu5T8A1aAOScBSJ35TVEiUy878yjMQC
 Job Reference (optional)

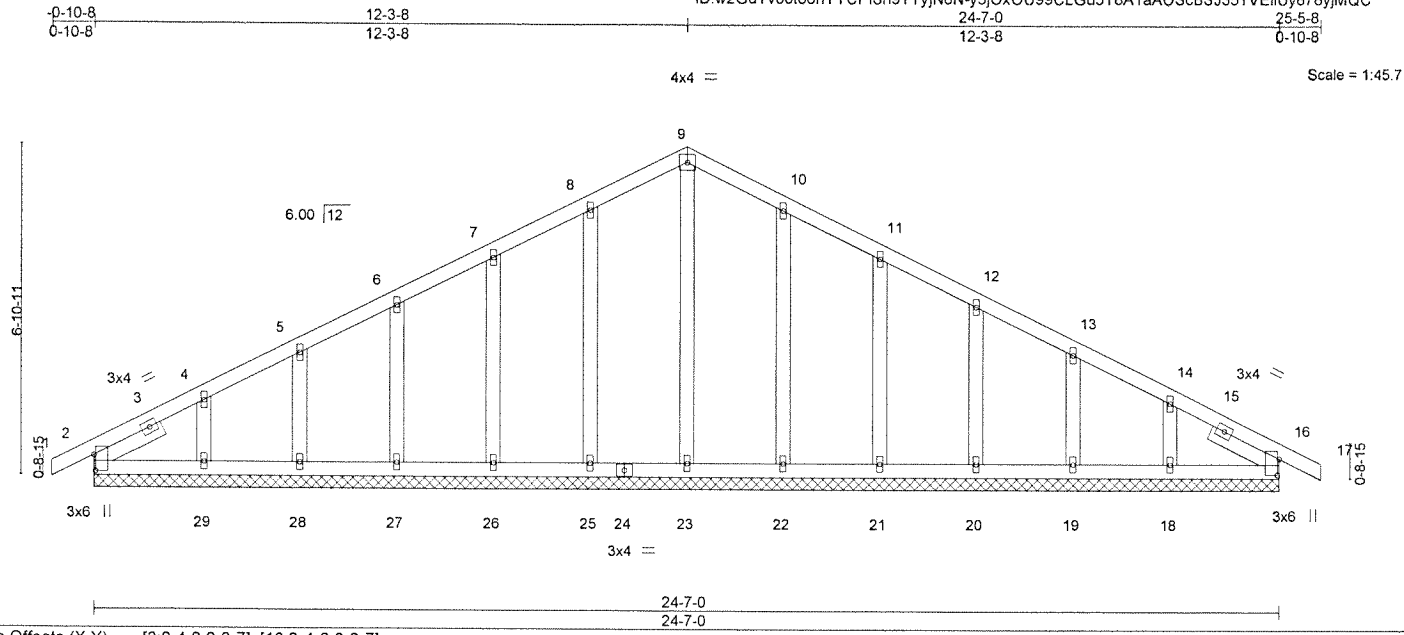


Plate Offsets (X,Y)-- [2:0-4-0,0-0-7], [16:0-4-0,0-0-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.04	Vert(LL)	-0.00	16	n/r	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	16	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	16	n/a		
BCLL 0.0	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 145 lb	FT = 20%

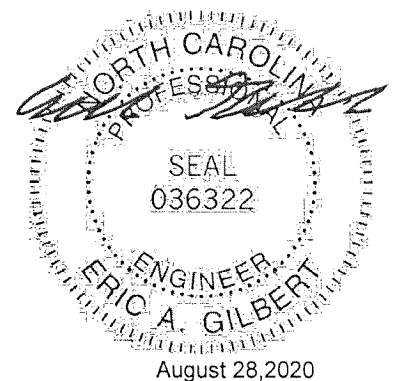
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -x 1-7-1, Right 2x4 SP No.3 -x 1-7-1

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

REACTIONS. All bearings 24-7-0.
 (lb) - Max Horz 2=114(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18
 Max Grav All reactions 250 lb or less at joint(s) 2, 23, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18, 16

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=25ft; eave=2ft; Cat. II, Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 22, 21, 20, 19, 18.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 16.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

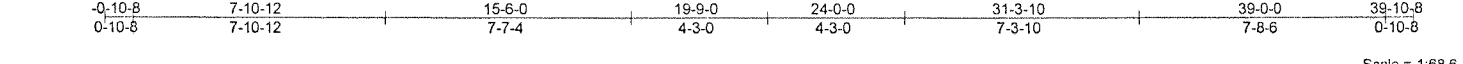


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
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TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job P20-08023	Truss T03	Truss Type GABLE	Qty 1	Ply 1	475 McARTHUR RD	E14797309
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Longleaf Truss Company, West End, NC - 27376, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:57 2020 Page 1
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Scale = 1:68.6

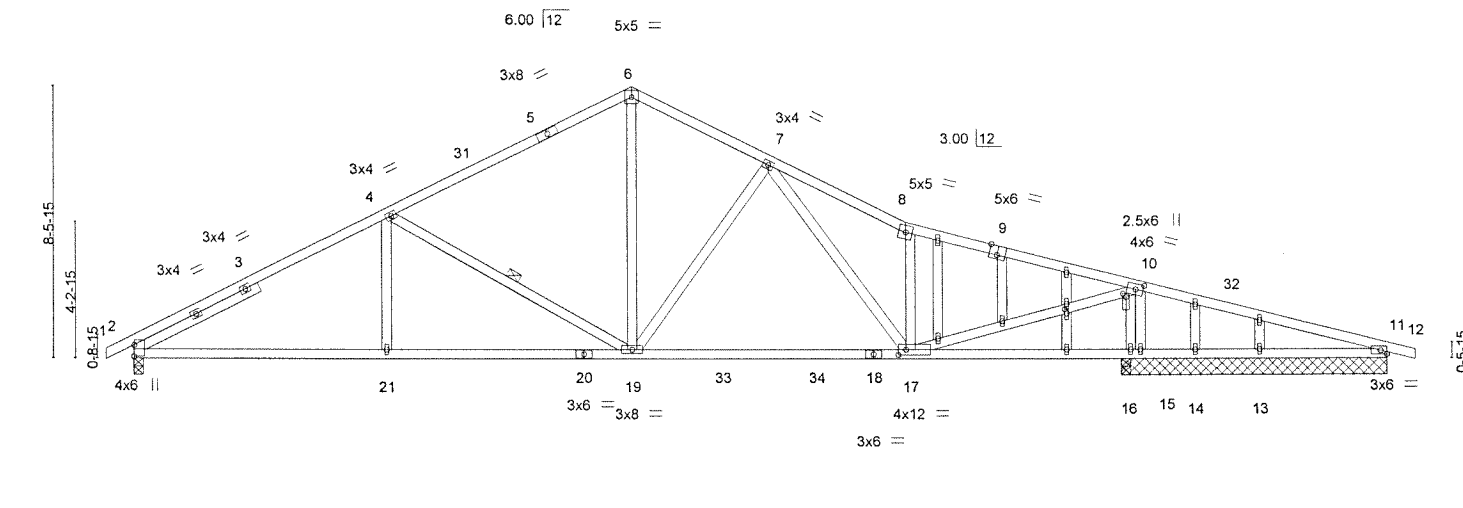


Plate Offsets (X,Y)--	[9:0-0-0,0-1-12], [9:0-3-0,Edge], [10:0-1-4,0-1-4], [10:0-2-12,0-2-0], [17:0-2-12,0-2-0], [26:0-1-10,0-0-12], [28:0-1-13,0-0-0]
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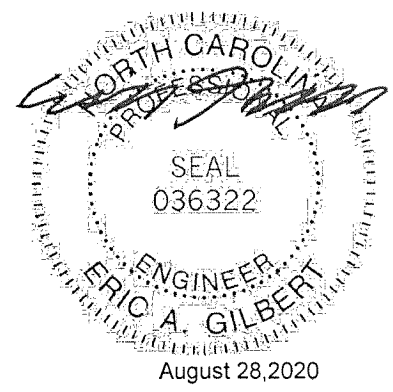
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.22 17-19 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.93	Vert(CT) -0.40 17-19 >931 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 16 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 218 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-4-5 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-19
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 -x 4-4-11	

REACTIONS. All bearings 8-3-8 except (jt=length) 2=0-3-8.
 (lb) - Max Horz 2=144(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 11 except 15=172(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 13, 14, 11 except 2=1402(LC 24), 15=1292(LC 2), 16=576(LC 7), 16=361(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2199/33, 4-6=-1506/77, 6-7=-1473/86, 7-8=-2002/80, 8-10=-1820/24, 10-11=0/533
 BOT CHORD 2-21=0/1960, 19-21=0/1960, 17-19=0/1505, 16-17=-459/13, 15-16=-459/13,
 14-15=-459/13, 13-14=-459/13, 11-13=-459/13
 WEBS 4-21=0/314, 4-19=-739/69, 6-19=0/969, 7-19=-443/72, 7-17=-8/453, 8-17=-718/89,
 10-17=0/2260, 10-15=-1654/87

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10; Min. flat roof snow load governs.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 11 except (jt=lb) 15=172.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO <small>A MITEK COMPANY</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job P20-08023	Truss T04	Truss Type Common	Qty 6	Ply 1	475 McARTHUR RD E14797310
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Longleaf Truss Company, West End, NC - 27376, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:25:59 2020 Page 1
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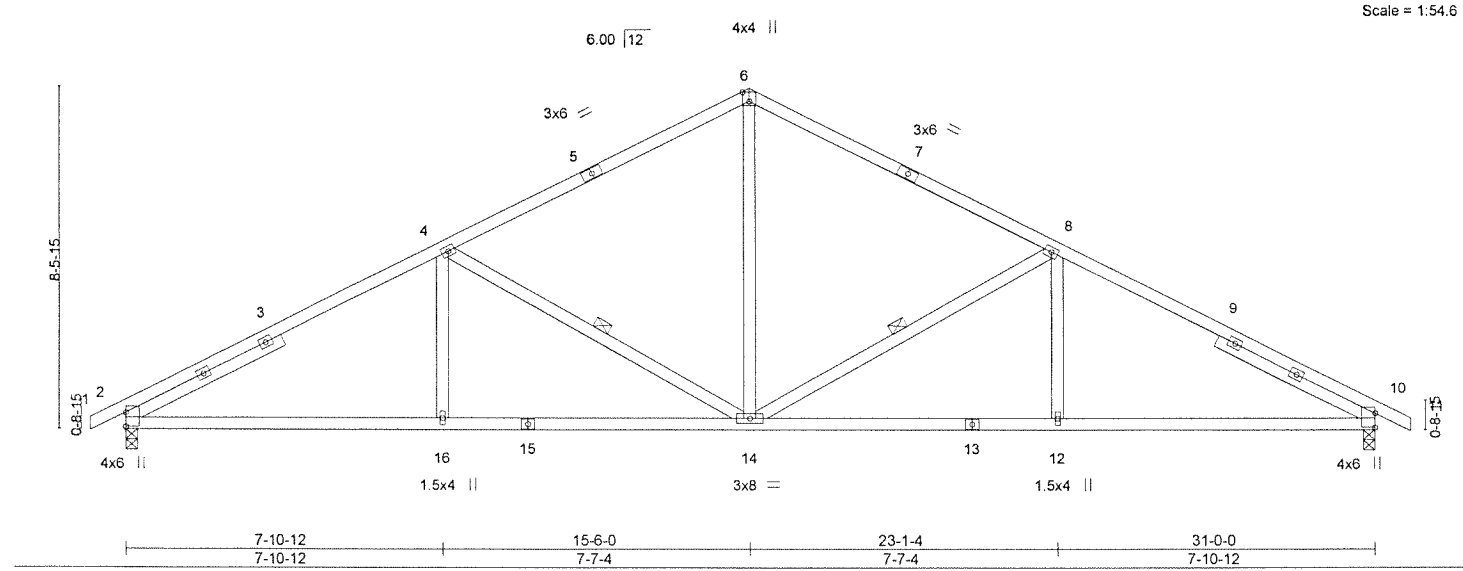
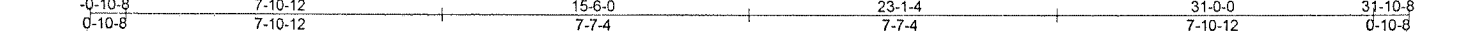


Plate Offsets (X,Y)-- [6:0-2-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.51	Vert(LL) -0.09 2-16 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.32	Vert(CT) -0.21 2-16 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.08 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 163 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Sheathed or 3-6-14 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-14, 4-14
SLIDER Left 2x4 SP No.3 -x 4-4-11, Right 2x4 SP No.3 -x 4-4-11	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=149(LC 11)
 Max Uplift 2=-21(LC 12), 10=-21(LC 12)
 Max Grav 2=1293(LC 2), 10=1293(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2067/31, 4-6=-1453/79, 6-8=-1453/79, 8-10=-2067/31
 BOT CHORD 2-16=0/1738, 14-16=0/1738, 12-14=0/1738, 10-12=0/1738
 WEBS 6-14=0/765, 8-14=-650/65, 8-12=0/325, 4-14=-650/65, 4-16=0/325

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 3x4 MT20 unless otherwise indicated.
 - 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) 2, 10.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



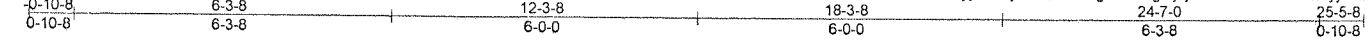
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MI-TEK COMPANY
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797311
P20-08023	T05	Common	3	1		

Longleaf Truss Company, West End, NC - 27376, 8 330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:26:01 2020 Page 1

ID:w2GdYv0oto6hYYCPiSH9TYyjN6N-jeCPd7aAGgM8rK5geij28xRlXfAL4ftbkuZQhYjMQ4



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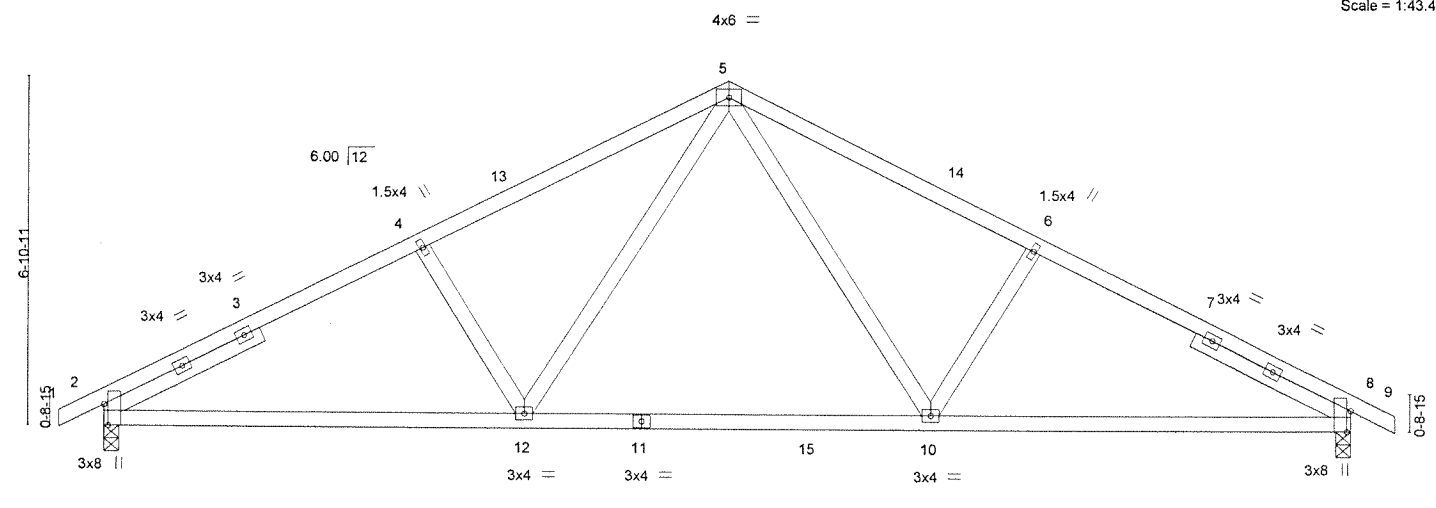


Plate Offsets (X,Y)--	[2:0-5-0,Edge], [8:0-5-0,Edge]
-----------------------	--------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.13 10-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.22 2-12 >999 180		
BCLL 0.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -x 3-6-0, Right 2x4 SP No.3 -x 3-6-0

BRACING-
TOP CHORD Sheathed or 4-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-114(LC 10)
Max Uplift 2=-21(LC 12), 8=-21(LC 12)
Max Grav 2=1148(LC 24), 8=1148(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1723/42, 4-5=-1571/67, 5-6=-1571/67, 6-8=-1722/42
BOT CHORD 2-12=0/1529, 10-12=0/1058, 8-10=0/1443
WEBS 5-10=0/648, 6-10=-302/107, 5-12=0/649, 4-12=-302/107

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

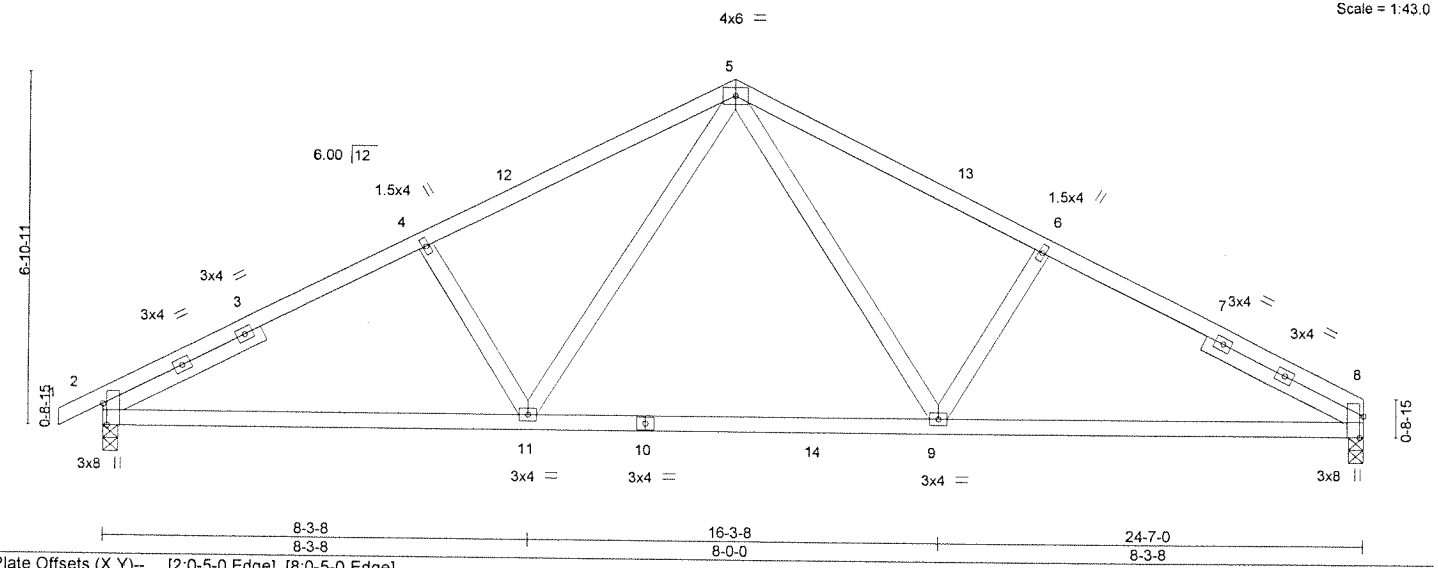


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job P20-08023	Truss T06	Truss Type Common	Qty 8	Ply 1	475 McARTHUR RD	E14797312
Longleaf Truss Company, West End, NC - 27376.		Job Reference (optional)				

8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:26:03 2020 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0	TC	0.46	in (loc)	l/defl	L/d	MT20	244/190		
Snow (P/Pg)	11.6/15.0	Plate Grip DOL	1.15	BC	0.60	Vert(LL)	-0.13 9-11 >999	240			
TCDL	10.0	Lumber DOL	1.15	WB	0.26	Vert(CT)	-0.23 8-9 >999	180			
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code	IRC2018/TPI2014						Weight: 123 lb FT = 20%		

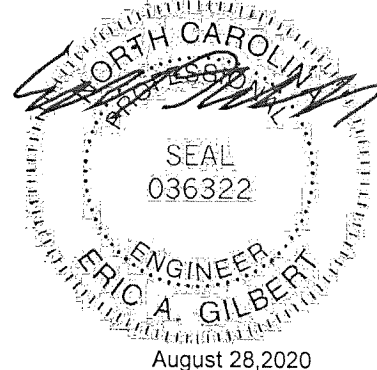
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 -x 3-6-0, Right 2x4 SP No.3 -x 3-6-0

BRACING-
 TOP CHORD Sheathed or 4-6-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
 Max Horz 2=114(LC 11)
 Max Uplift 2=22(LC 12)
 Max Grav 8=1100(LC 25), 2=1148(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1724/43, 4-5=-1572/68, 5-6=-1575/69, 6-8=-1727/44
 BOT CHORD 2-11=0/1530, 9-11=0/1059, 8-9=0/1447
 WEBS 5-9=0/652, 6-9=-304/109, 5-11=0/648, 4-11=-302/107

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - 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, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITEK COMPANY
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	475 McARTHUR RD	E14797313
P20-08023	T07	Common	1	1		

Longleaf Truss Company, West End, NC - 27376, 8.330 s Jul 22 2020 MiTek Industries, Inc. Fri Aug 28 09:26:04 2020 Page 1

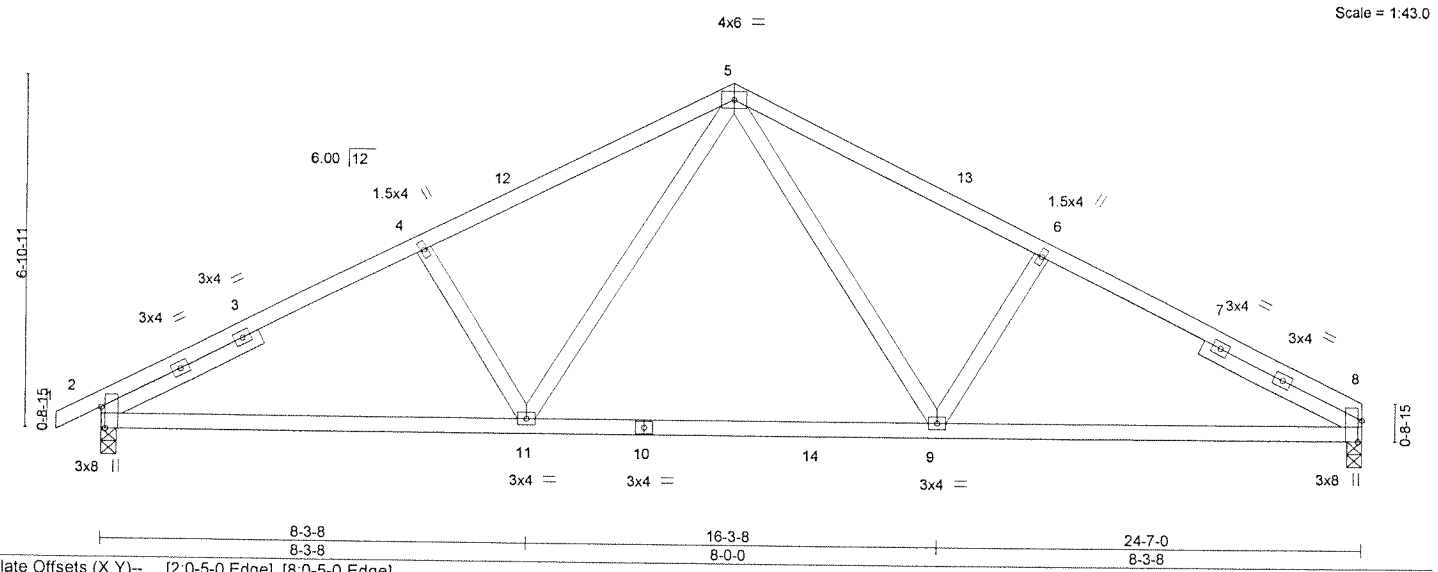
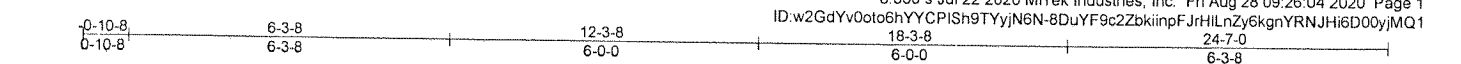


Plate Offsets (X,Y)--	[2:0-5-0,Edge], [8:0-5-0,Edge]
LOADING (psf)	
TCLL (roof)	20.0
Snow (Pf/Pg)	11.6/15.0
TCDL	10.0
BCLL	0.0
BCDL	10.0
SPACING-	2-0-0
Plate Grip DOL	1.15
Lumber DOL	1.15
Rep Stress Incr	YES
Code	IRC2018/TPI2014
CSI.	
TC	0.46
BC	0.60
WB	0.26
Matrix-S	
DEFL.	
Vert(LL)	-0.13
Vert(CT)	-0.23
Horz(CT)	0.05
(loc)	9-11
l/defl	>999
L/d	240
	8-9
	>999
	180
	n/a
	n/a
PLATES	MT20
GRIP	244/190
Weight:	123 lb
FT =	20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -x 3-6-0, Right 2x4 SP No.3 -x 3-6-0

BRACING-
TOP CHORD Sheathed or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=114(LC 11)
Max Uplift 2=-22(LC 12)
Max Grav 8=1100(LC 25), 2=1148(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1724/43, 4-5=-1572/68, 5-6=-1575/69, 6-8=-1727/44
BOT CHORD 2-11=0/1530, 9-11=0/1059, 8-9=0/1447
WEBS 5-9=0/652, 6-9=-304/109, 5-11=0/648, 4-11=-302/107

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



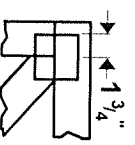
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ENGINEERING BY
TRENCO
A MiTek Alliance

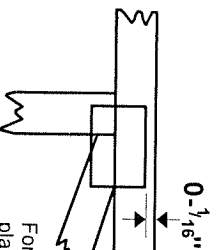
818 Soundside Road
Edenton, NC 27932

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 4 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

4 X 4

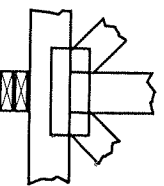
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



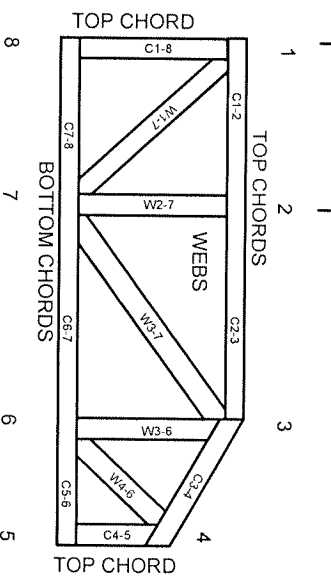
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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-2382, 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.

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General Safety Notes

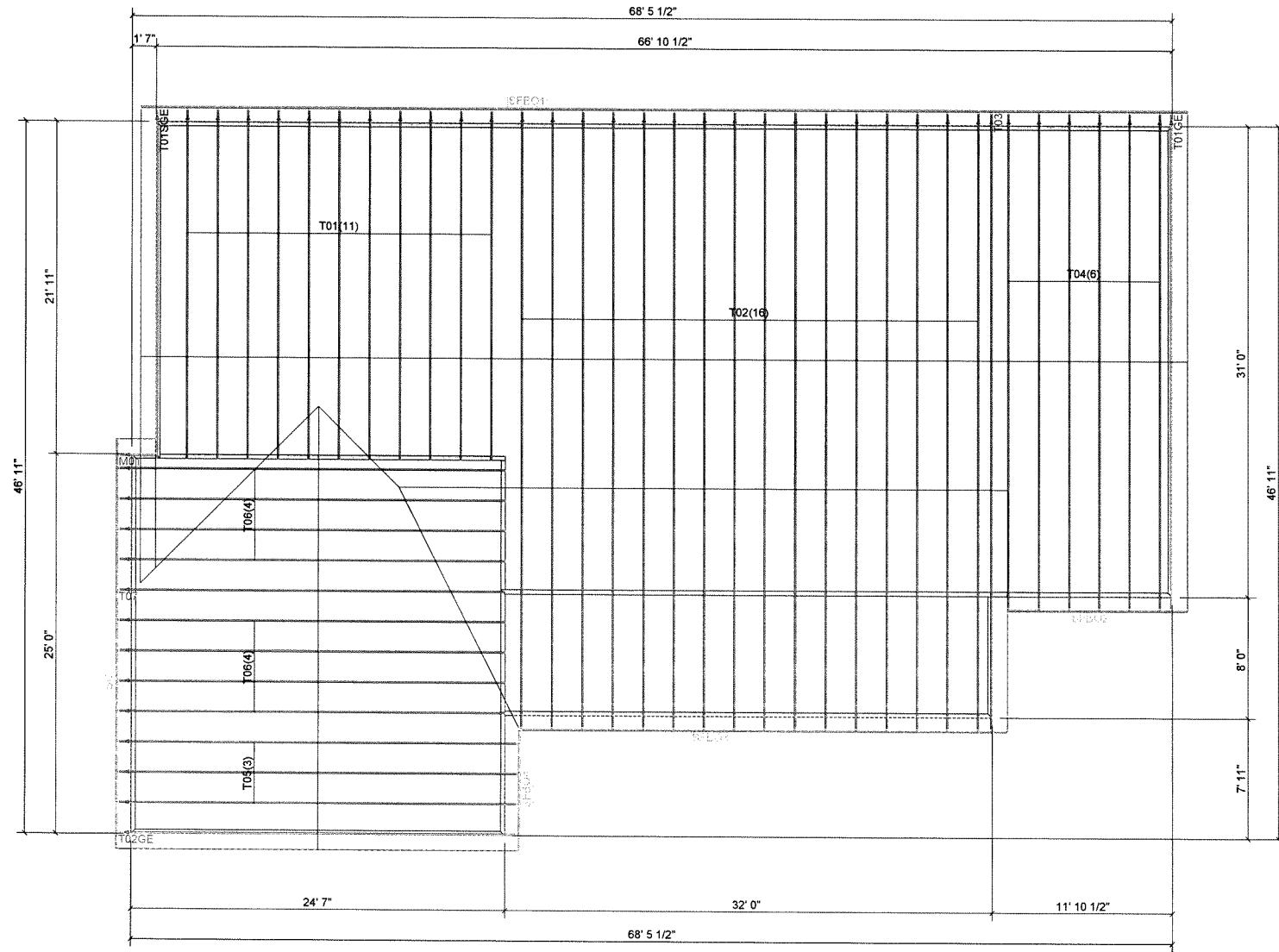
Failure to Follow Could Cause Property Damage or Personal Injury

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



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

Floor Area: 0 SF
 Floor Plywood: 0
 Roof Area: 3279.85 SF
 Roof Plywood: 90 sheets
 Roof Shingles: 41 Squares



ROOF TRUSS LAYOUT

1/4" = 1'-0"

Client: **SERVICE BUILDING SUPPLY SANF**

Project: **475 McARTHUR RD**

Model: **HARRINGTON PROP**

Lot #: _____

Order #: **P20-08023**

Subdivision: _____

Designer: _____

Date: **/ /**



4476 Hwy. 21 W
West End, NC 27376
(910) 673-4711

NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCAT-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION, DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE: <http://support.abccindustry.com/pubs/ITBDResp-D>

4418 HWY. 51 W
MOUNTAIN VIEW, NC 27020



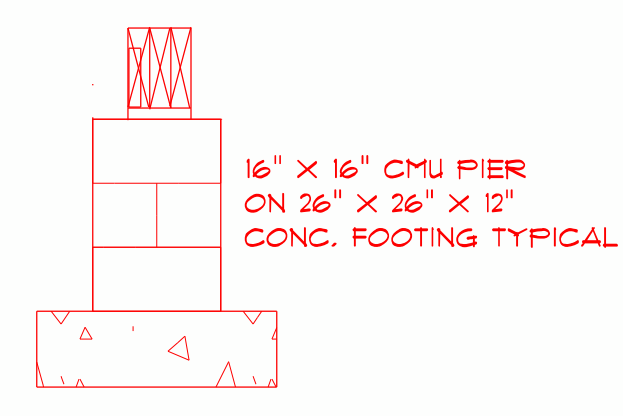
Project: 4418 HWY. 51 W
Client: BRYANTON PROPERTIES, LLC
Address: 475 MCARTHUR ROAD, SANFORD, NC 27330

NOTE
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE
DESIGN FOR THE FOUNDATION AND TO SPECIFY THE MATERIALS AND CONSTRUCTION TO BE USED IN THE
FOUNDATION. THE DESIGNER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE FOUNDATION DESIGN AND
CONSTRUCTION. THE DESIGNER OR ARCHITECT SHALL BE RESPONSIBLE FOR THE FOUNDATION DESIGN AND
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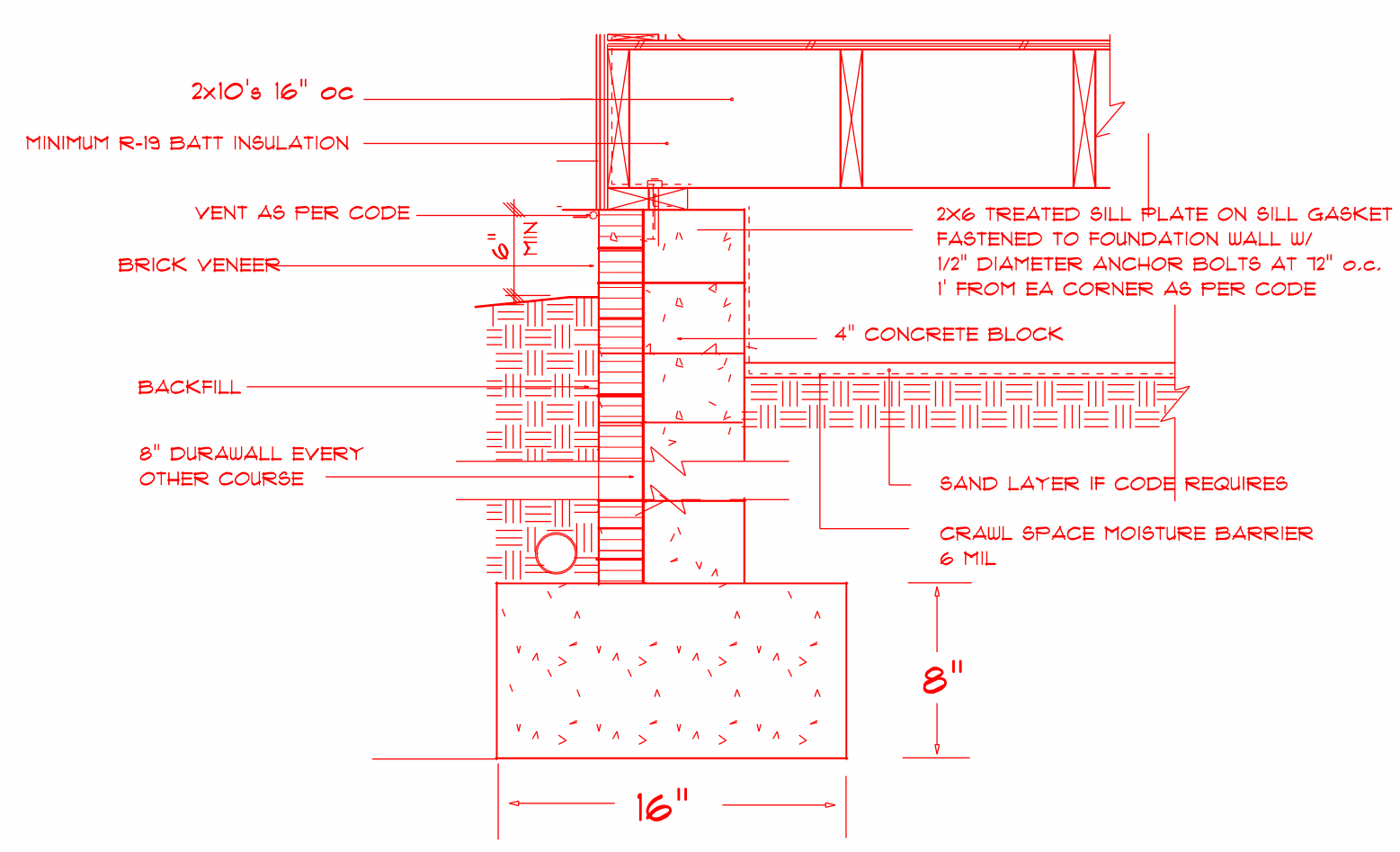
TYPICAL WALL: 8" BLOCK W/ 16" X 8" FOOTING
TYPICAL WALL: BRICK 4 4" BLOCK W/ 16" X 8" FOOTING
3-2 X 10'S GIRDER
2 X 10'S 16" OC JOIST
2-2 X 10'S DBL JOIST

FOUNDATION NOTES:
ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL.
THE 28 DAY COMPRESSIVE STRENGTH OF ALL FOOTINGS IS 3000 PSI.
PROVIDE WATER PROOFING AND PERIMETER DRAINS AS REQUIRED.
FOUNDATION CONCRETE MIX TO HAVE 1/2" MAX AGGREGATE SIZE. CONCRETE
FILL MIX TO HAVE 1/2" MAX AGGREGATE SIZE.
FOOTING WIDTHS ARE BASED ON A LOAD-BEARING SOIL CAPACITY OF 2000 PSI.
PROVIDE 6 MIL POLY VAPOR BARRIER TO COVER GROUND SURFACE IN CRAWL SPACE.
ALL ANCHOR BOLTS TO BE 12" LONG, 1/2" DIA. ALL UNO ANCHOR BOLTS SHALL BE 8" SPACE AT A MAX
OF 6' OC AND NO MORE THAN 1' FROM EA CORNER.

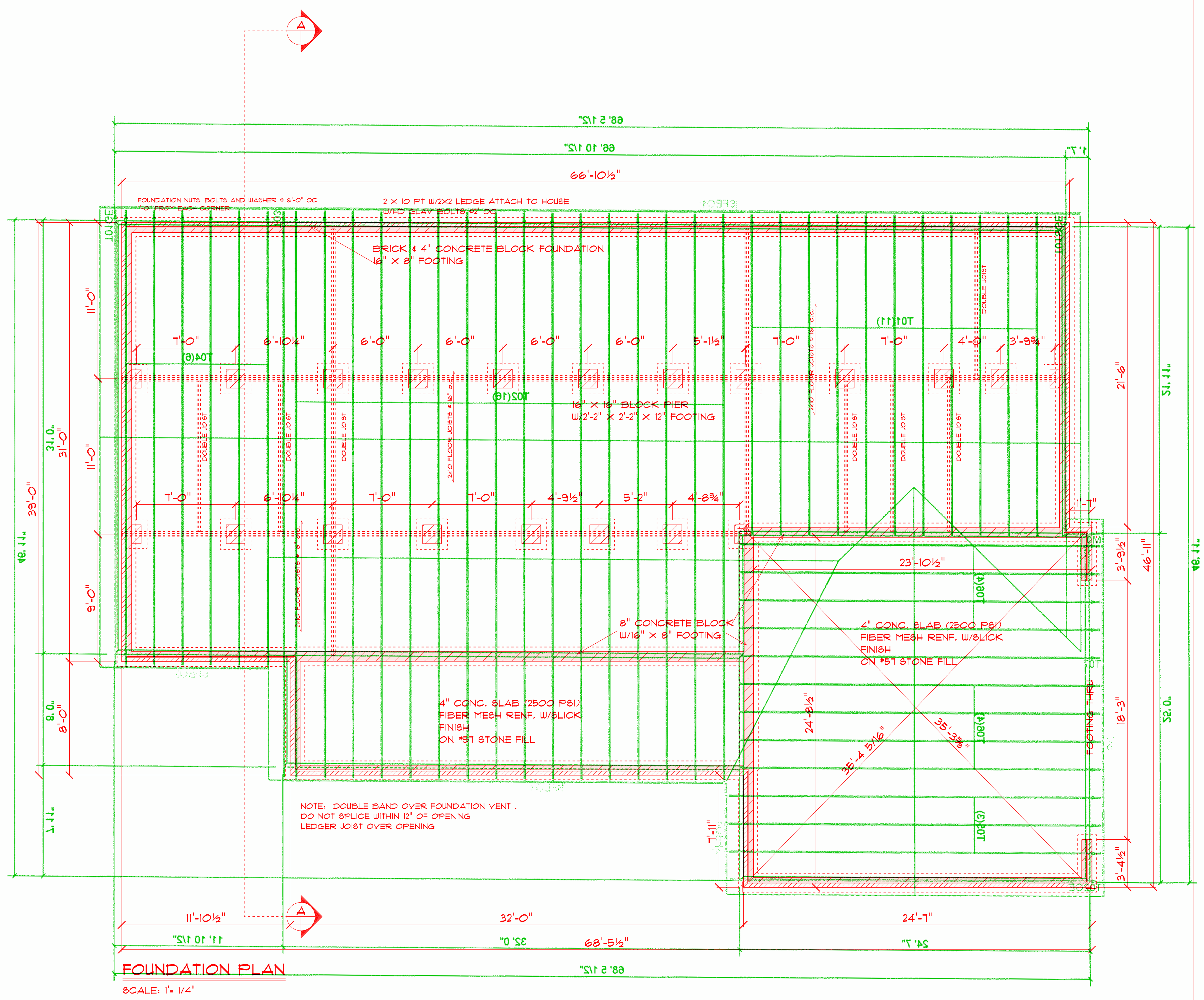
Termite Soil Treatment: Treat entire slab area soil or crawl space
surface before vapor barrier is installed and slab is poured
with a state approved termiticide. Termiticide should be
applied by a licensed and certified pest control professional
by the state of North Carolina.



CONCRETE BLOCK PIER DETAIL
NOT TO SCALE



FOOTING & FOUNDATION DETAIL
not to scale



FOUNDATION PLAN
SCALE: 1" = 1/4"