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STRUCTURAL NOTES

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200	-	-
Guardrail in-fill components	50	-	-
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40	-	L/360
Snow	20	_	_

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

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(PD = 750 PS) Unless noted other vise.
ENGINEERED WOOD BEAMS :
Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10⁶ PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=2400 PSI, E=1.55x10⁶ PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joist shall be installed according to the manufacture's specifications. Any change in truss or I-joist layout shall be coordinated with Haynes Homes Plans, Inc. LINTELS: Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. **FLOOR SHEATHING:** OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4" thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on center rafters. CONCRETE AND SOILS: See foundation notes.

BRACE WALL PANEL NOTES

EXTERIOR WALLS: All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise.

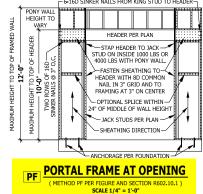
GYPSUM: All interior sides of exterior walls and both sides GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1. REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge

of the brace wall panel closets to the corner. Methods Per Table R602.10.1

CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on CS-WSP: Shall be minimum 3/8 OSb or CDA hailed at 0 on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter).
CS-SFB: Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing nails

GB: Interior walls show as GB are to have minimum 1/2' gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws

PF: Portal fame per figure R602.10.1 - 6-16D SINKER NAILS FROM KING STUD TO HEADER-





UNLESS NOTED OTHERWISE - KING STUDS EACH END PER TABLE BELOW

HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6 INTERIOR HEADERS - LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END

UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE LADDER FRAMED

(2) 2 X 12 2 JACKS EACH END **OPTIONAL CORNER FIREPLACE**



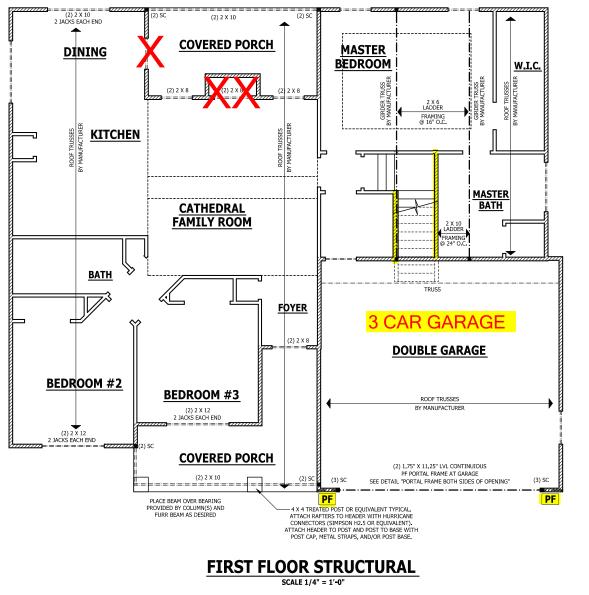
ROOF TRUSS REQUIREMENTS

TRUSS DESIGN, Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins.

KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or In insulation, there are here the transmittener that the transmitten

reasonability of the truss manufacturer. ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. BEARING. All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses



HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR ONTRACTORS PRACTICES AN PROCEDURES, CODES AND CONDITIONS MAY (ARY WITH LOCATION & LOCAL DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTE BEFORE CONSTRUCTION THESE DRAWING ARE INTRUMENTS OF SERVICE AN AS SUCH SHALL REMAIN ROPERTY OF THE DESIGNER

> **STRUCTURAL** SINCLAIR FLOOR

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SQUARE FOOTAGE HEATED

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351 SQ F 221 SQ F 572 SQ F

28 SQ FT 28 SQ FT

134 SQ F

STRUCTURAL NOTES

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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION				
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Fire escapes	40	10	L/360				
Guardrails and handrails	200	-					
Guardrail in-fill components	50	-	-				
Passenger vehicle garages	50	10	L/360				
Rooms other than sleeping	40	10	L/360				
Sleeping rooms	30	10	L/360				
Stairs	40	-	L/360				
Snow	20	-	-				

875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise ENGINEERED WOOD BEAMS :

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Inc/200309B

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ENGINEERED WOOD BEAMS : Laminated veneer lumber (VL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x108 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=209 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) = b=2250 PSI, Fv=2040 PSI, E=2.0x106 PSI Install al connections per manufacturers instructions. **TRUSS AND** 1:001ST IMEMERSIS All roof truss and I-joist layouts shall be

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4

shall meet the requirements as specified on the truss schematics. BEARING. All trusses shall be designed for bearing on SPF #2 plates or ledgers unless noted otherwise.

Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses

EXTERIOR HEADERS

- (2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE - KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6

INTERIOR HEADERS

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE LADDER FRAMED

ATTIC ACCESS

SECTION R807

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have to attic areas that cfor do lack areas that cfor a constraint areas that cfor a constraint areas that cfor a constraint and constraint areas and constraint some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions: 1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

WALL THICKNESSES

Exterior walls and walls adjacent to a garage area are drawn as 4" or as noted 2 X 6 are drawn as 6" to include 1/2" sheathing or gypsum. Subtract 1/2" for stud face.

Interior walls are drawn as 3 1/2" or as noted 2 X 6 are drawn as 5 1/2", and do not include gypsum.

3 CAR GARAGE

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HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AN

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CODES AND CONDITIONS MAY (ARY WITH LOCATION & LOCAL DESIGNER, ARCHITECT OR IGINEER SHOULD BE CONSULTE BEFORE CONSTRUCTION

THESE DRAWING ARE INTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN ROPERTY OF THE DESIGNER.

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28 SQ FT 28 SQ FT

134 SQ F

SQUARE FOOTAGE 351 SQ F 221 SQ F 572 SQ F

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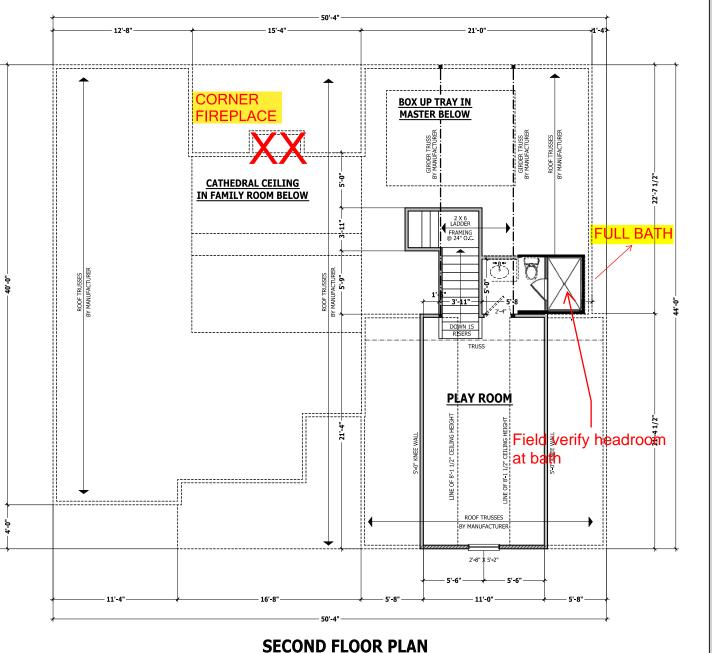
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PLAN

SECOND FLOOR



SCALE 1/4" = 1'-0"

3 CAR GARAGE

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGIN HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.

PROCEEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR NUMERER SHOULD BE CONSULTEI BEFORE CONSTRUCTION. THESE DRAWING ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

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28 SQ FT 28 SQ FT

134 SO F 447 SO F 113 SO F

SQUARE FOOTAGE HEATED FIRST FLOOR 1351 SO.FT. PLAYROOM 221 SO.FT.

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ROOF PLAN

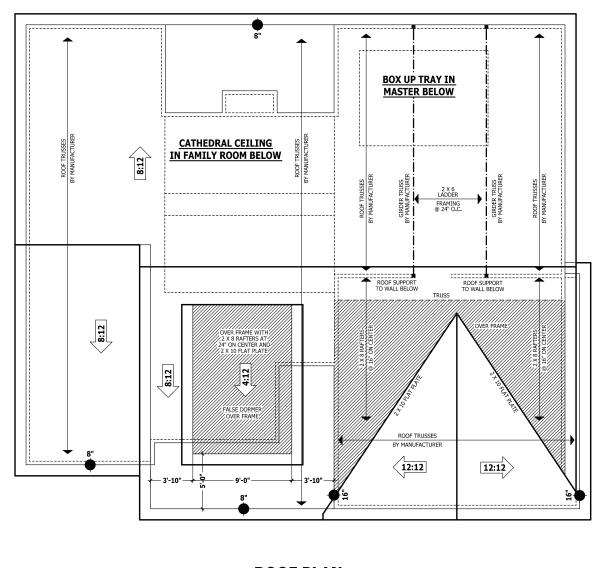
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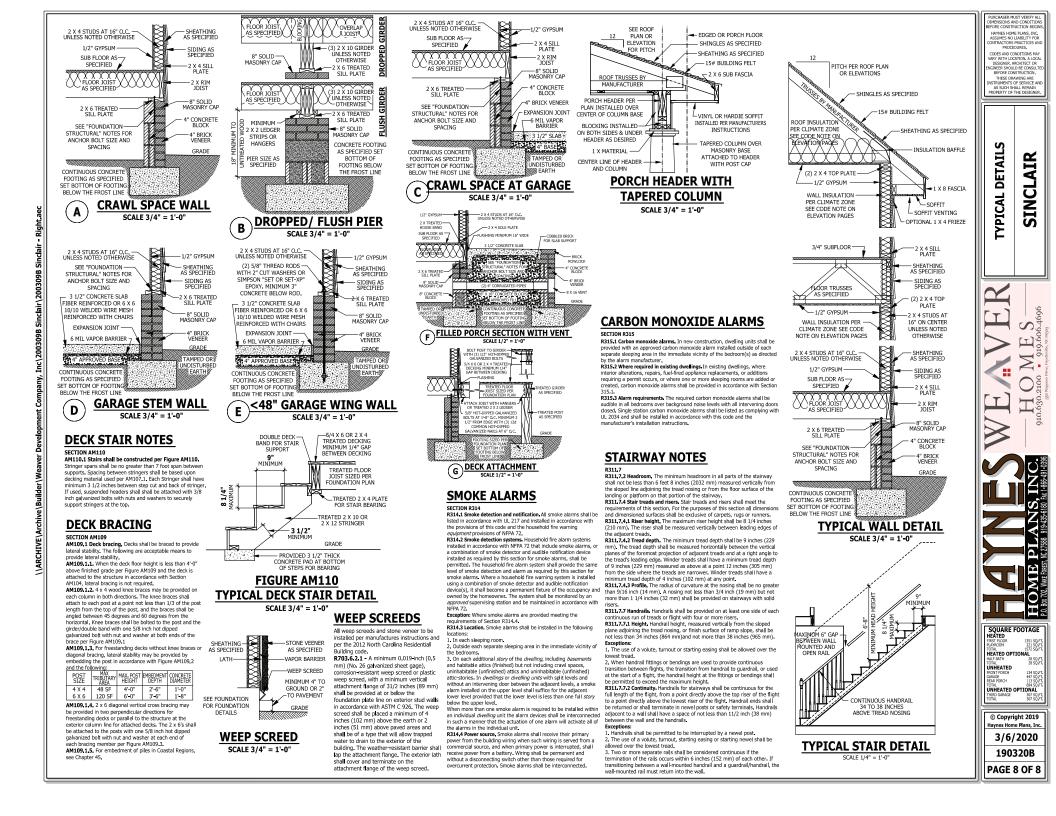
ledgers unless noted otherwise. Plate Heights & Floor Systems. See elevation page(s) for plate heights

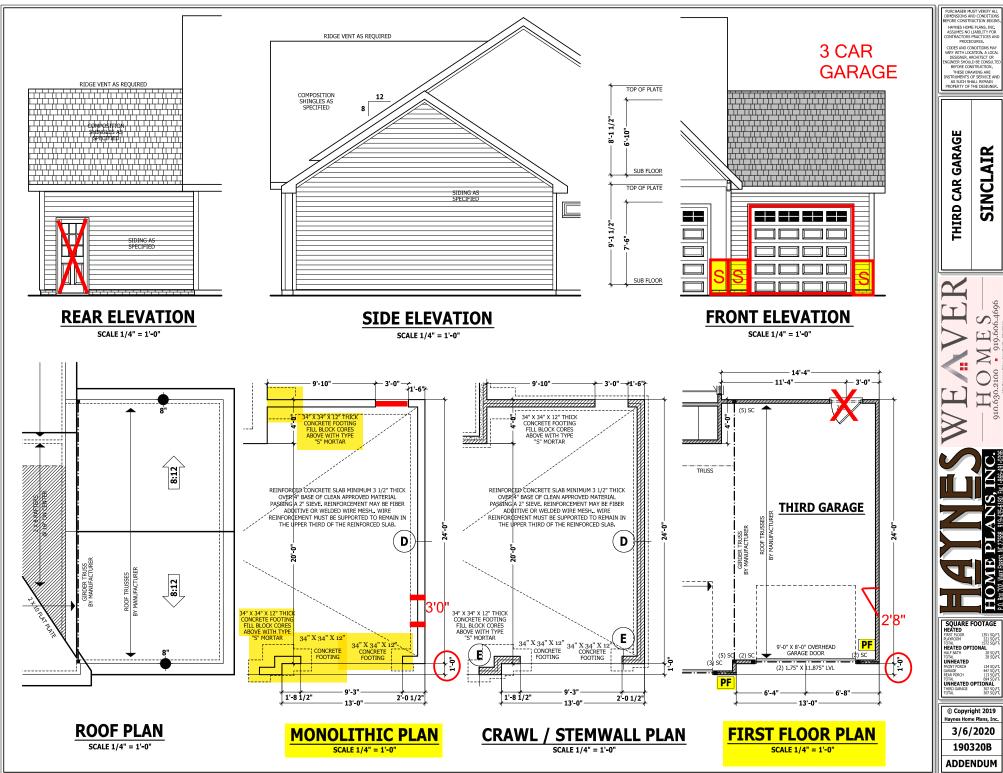
and floor system thickn HEEL HEIGHT ABOVE

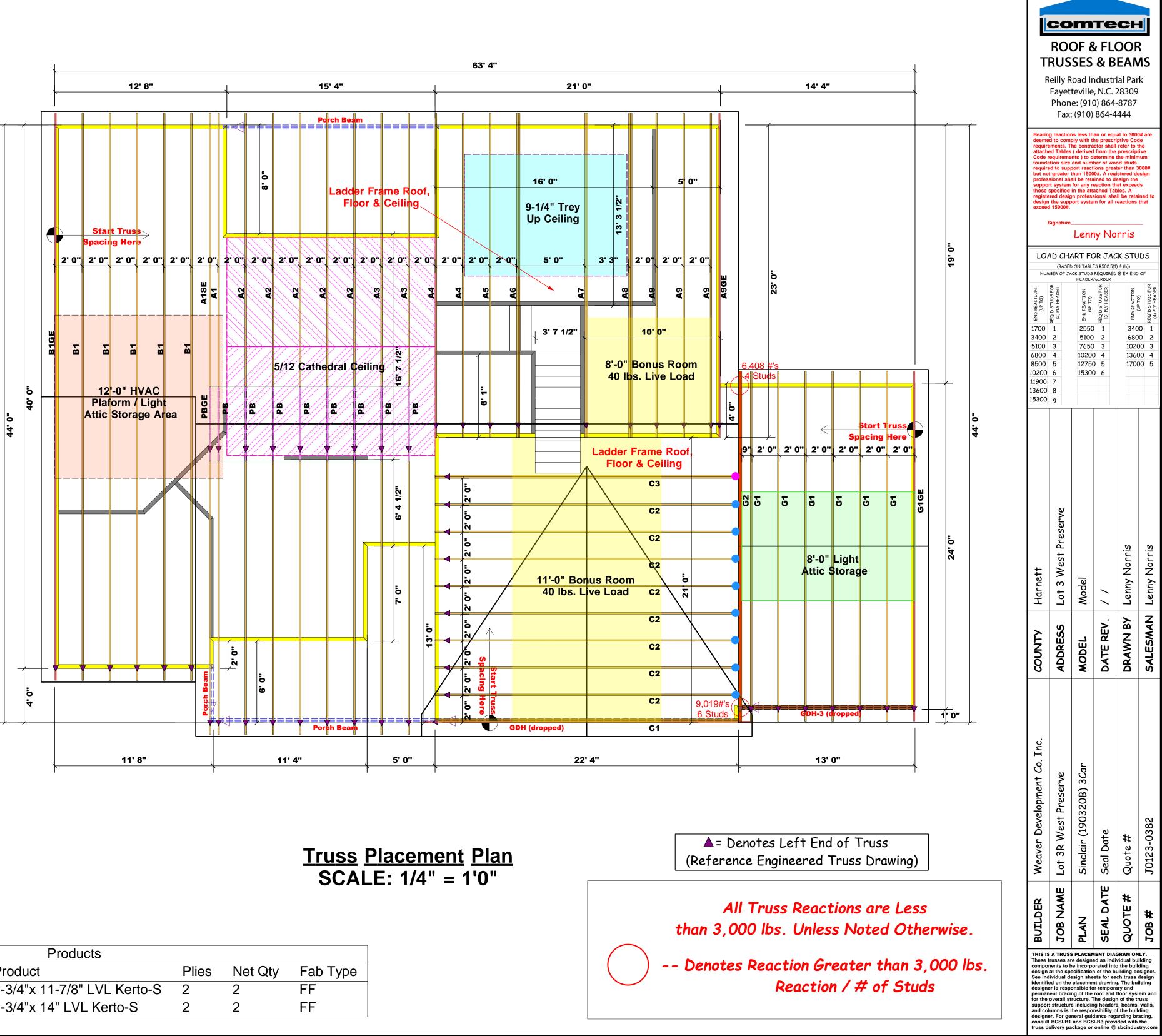
HEEL HEIGHT ABOVE



ROOF PLAN SCALE 1/4" = 1'-0"

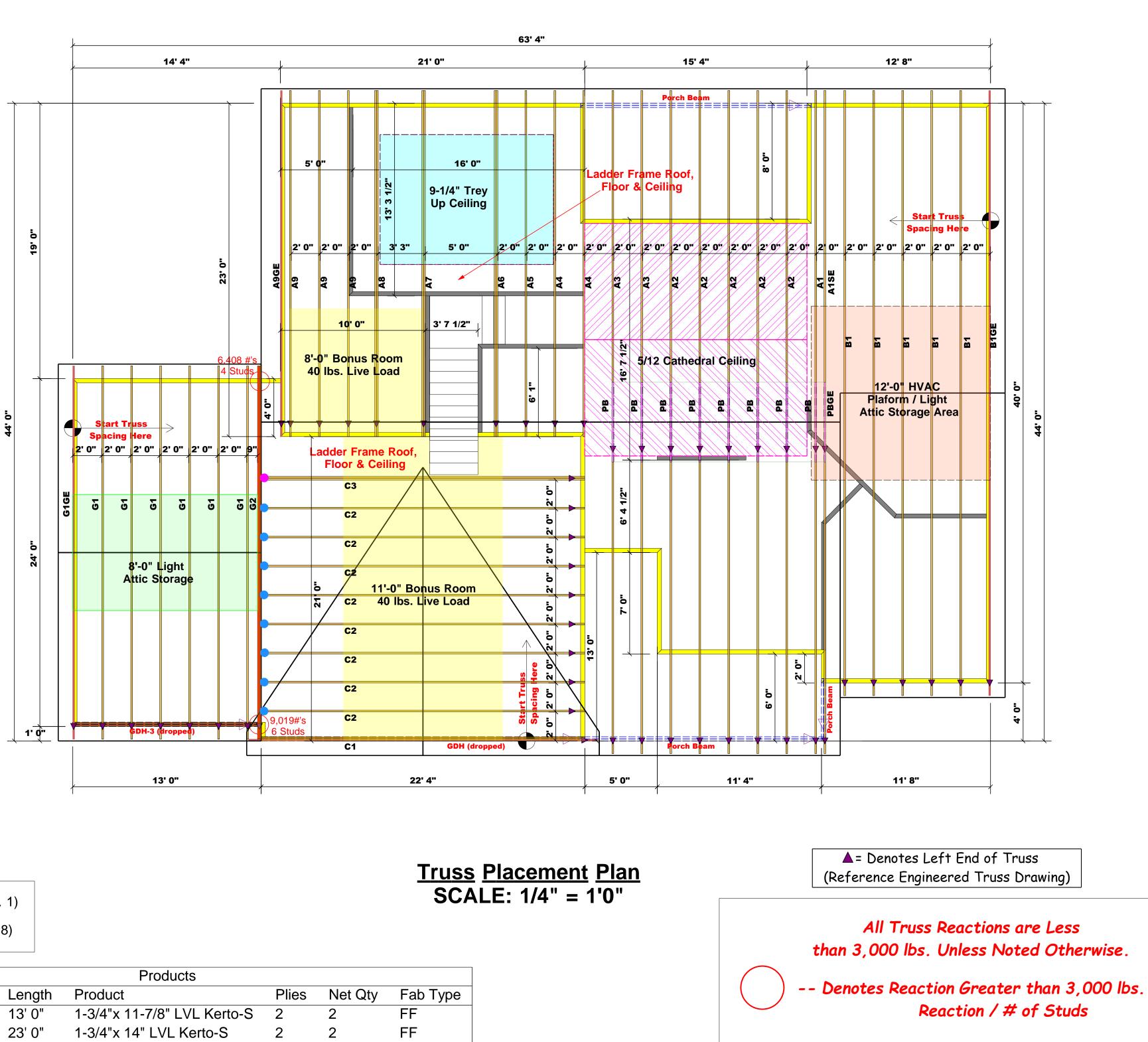






= THD26-2 (Qty. 1) = HUS26 (Qty. 8)

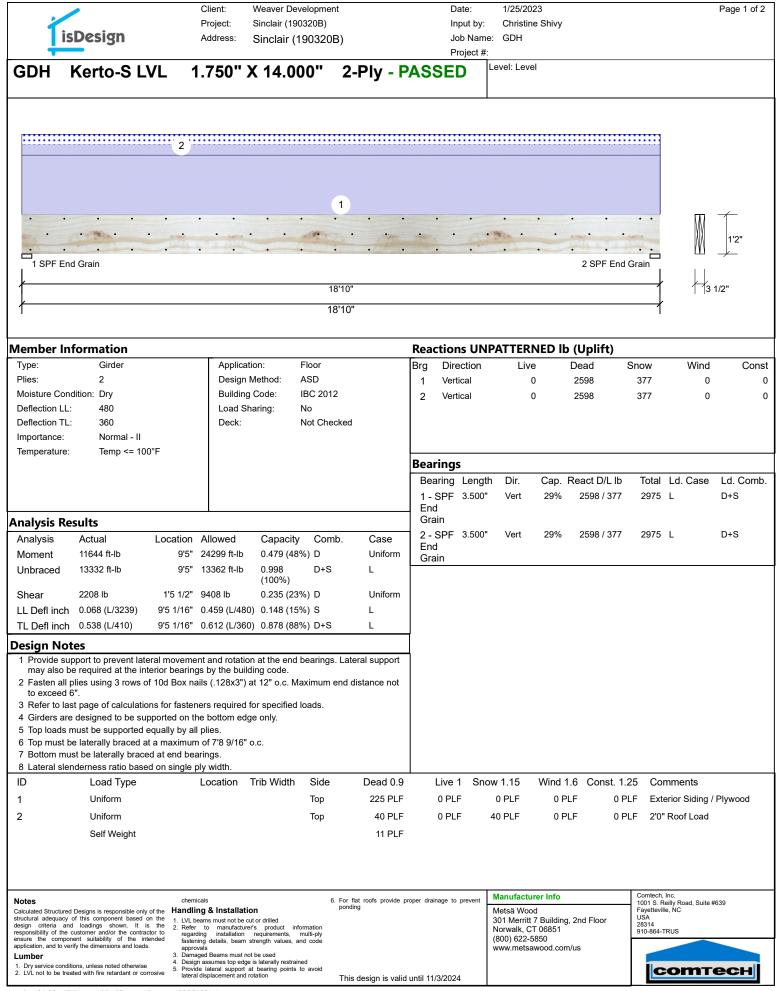
Products							
PlotID	Length	Product	Plies	Net Qty	Fab Type		
GDH-3 (dropped)	13-00-00	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF		
GDH (dropped)	23-00-00	1-3/4"x 14" LVL Kerto-S	2	2	FF		



• = THD26-2 (Qty. 1) = HUS26 (Qty. 8)

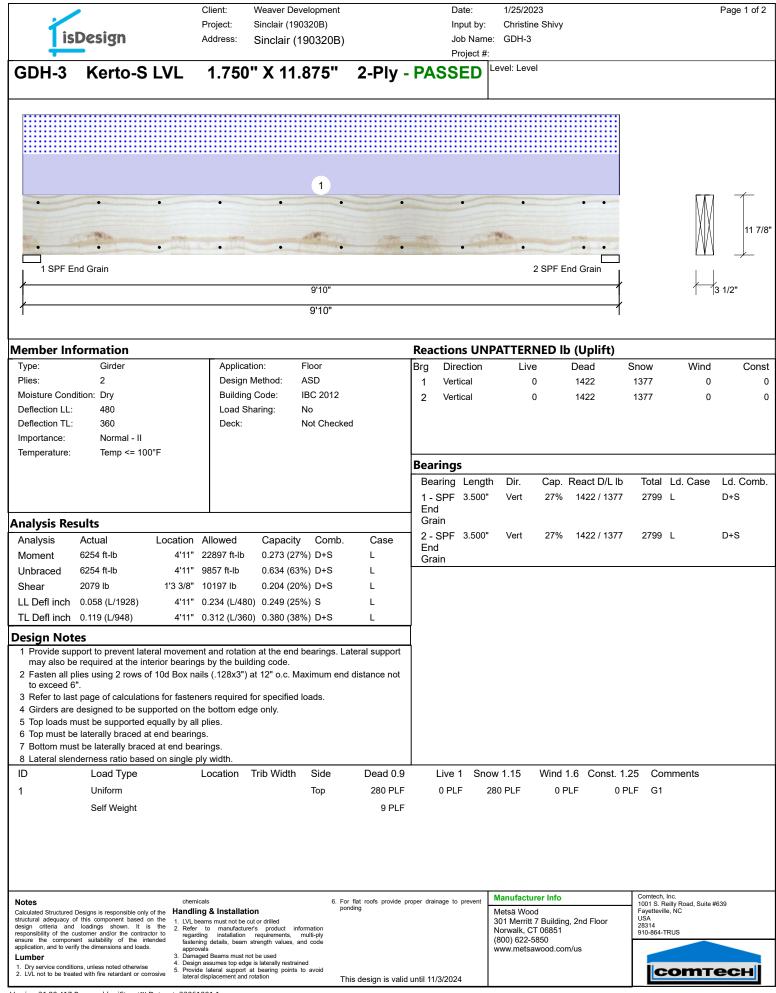
Products							
PlotID	Length	Product	Plies	Net Qty	Fab Type		
GDH-3 (dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF		
GDH (dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF		

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Weaver Development Co. Inc.	Lot 3R West Preserve	Sinclair (190320B) 3Car	Seal Date	Quote #	J0123-0382				
BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #				
These t compor design See ind identifie designe perman for the support and col designe consult	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com								



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-	Client: Weaver Deve Project: Singlair (1993		Date:	1/25/2023	Page 2 o
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. End Distance	3"				
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otes Iculated Structured Designs is responsible only o	chemicals f the Handling & Installation	 For flat roofs provide proper drainag ponding 	e to prevent	Manufacturer Info Metsä Wood	1001 S. Reilly Road, Suite #639 Fayetteville, NC
uctural adequacy of this component based on sign criteria and loadings shown. It is	the 1. LVL beams must not be cut or drilled the 2. Refer to manufacturer's product inform	mation	:	301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	USA 28314
ponsibility of the customer and/or the contracts sure the component suitability of the inter- plication, and to verify the dimensions and loads.	or to regarding installation requirements, minded fastening details, beam strength values, and	ulti-ply		(800) 622-5850	910-864-TRUS
Imber	approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained	d		www.metsawood.com/us	
. Dry service conditions, unless noted otherwise . LVL not to be treated with fire retardant or corro	5 Provide lateral support at bearing points to	avoid	1		сотесн



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	•		Client:	Weaver Developm			Date		1/25/2023		Page 2 of 2
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Edge Distance		1 1/2"									
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Notes		chem	icals		6. For flat roof	fs provide pr	oper drainage to pr	event	Manufacturer Info	Comtech, Inc 1001 S. Reilly	y Road, Suite #639
structural adequacy of	Designs is responsible only of f this component based or	n the 1. LVL b	eams must not be o	cut or drilled	ponding				Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, M USA 28314	NC
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application, and to verif	y the dimensions and loads.	appro 3. Dama	ovals aged Beams must n	ot be used					www.metsawood.com/us		
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