PLANS DESIGNED TO THE **2018 NORTH CAROLINA STATE** RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT: 17'-2" HEIGHT TO RIDGE: 25'-6" * BASEMENT WALL R-VALUE 5/13 10/15 10/15 ** SLAB R-VALU * CRAWL SPACE WALL R-VALUE 5/13 10/15 10/19

 * "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION ** INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING: INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL

DESIGNED FOR WIN								
COMPONENT								
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
						-16.4		
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2
ZONE 3						-19.6		
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9
ZONE 5	15.5	-20.0	16.3	-21.0	16.9	-21.8	17.4	-22.4

DESIGNED FOR WIP	DOPPEED	OL 130 LIN	TH, 3 3001	DUD GOST	(IUI I'AC	ILESI LIITE	LAPUSE	INC D
COMPONENT								
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
ZONE 1								
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 3						-22.9		
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9

ROOF VENTILATION

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,111 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.07 SO.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.04 SQ.FT.

GUARD RAIL NOTES

SECTION R312

R312.1 Where required. Guards shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or *grade* below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads.

Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the

2. Where the top of the guard also serves as a handrail on the open sides of stairs, the top of the *guard* shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting

the leading edges of the treads.

R312.3 Opening limitations, Required guards shall not have openings from the walking surface to the required *guard* height which allow passage of a sphere 4 inches (102 mm)in diameter. Exceptions:

 The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.

2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 43/8 inches (111 mm) in diamet

AIR LEAKAGE

Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code:

1. Blocking and sealing floor/ceiling systems and under knee walls

open to unconditioned or exterior space.

Capping and sealing shafts or chases, including flue shafts.
 Capping and sealing soffit or dropped ceiling areas.





FRONT ELEVATION

SCALE 1/4" = 1'-0"

RIDGE VENT AS REQUIRED COMPOSITION —
SYNINGLES AS
SPECIFIED

SPECIFIED - SIDING AS--SPECIFIED--SIDING AS-SPECIFIED SPECIFIED RAIL AS NEEDED PER CODE

REAR ELEVATION

SCALE 1/4" = 1'-0"

SOUARE FOOTAGE

HEATED 1351 SQ.FT. 221 SQ.FT. 1572 SQ.FT. FIRST FLOOR PLAYROOM

HEATED OPTIONAL 28 SO.FT.

TOTAL UNHEATED 134 SQ.FT. 447 SQ.FT. 113 SQ.FT. FRONT PORCH GARAGE REAR PORCH

694 SQ.FT UNHEATED OPTIONAL THIRD GARAGE

307 SQ.FT. 307 SQ.FT. TOP OF PLATE SUB FLOOR TOP OF PLATE

SUB FLOOR

HEATED OP UNHEATED

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190320B PAGE 1 OF 8

REAR ELEVATIONS SINCLAIR ం **FRONT**

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

28 SQ.FT. 28 SQ.FT.

UNHEATED OPTIONAL





LEFT SIDE ELEVATION

SCALE 1/4" = 1'-0"

LEFT & RIGHT ELEVATIONS

SINCLAIR

HEATED OPTIONAL 28 SQ.FT. 28 SQ.FT. TOTAL UNHEATED FRONT PORCH GARAGE REAR PORCH TOTAL UNHEATED
PROBLE TORCH 134 SQ.FT.
GRANGE 447 SQ.FT.
REAR PORCH 133 SQ.FT.
TOTAL
TOTAL
THEO GRANGE 307 SQ.FT.
TOTAL
THEO GRANGE 307 SQ.FT.
TOTAL
TOTAL
THEO GRANGE 307 SQ.FT.

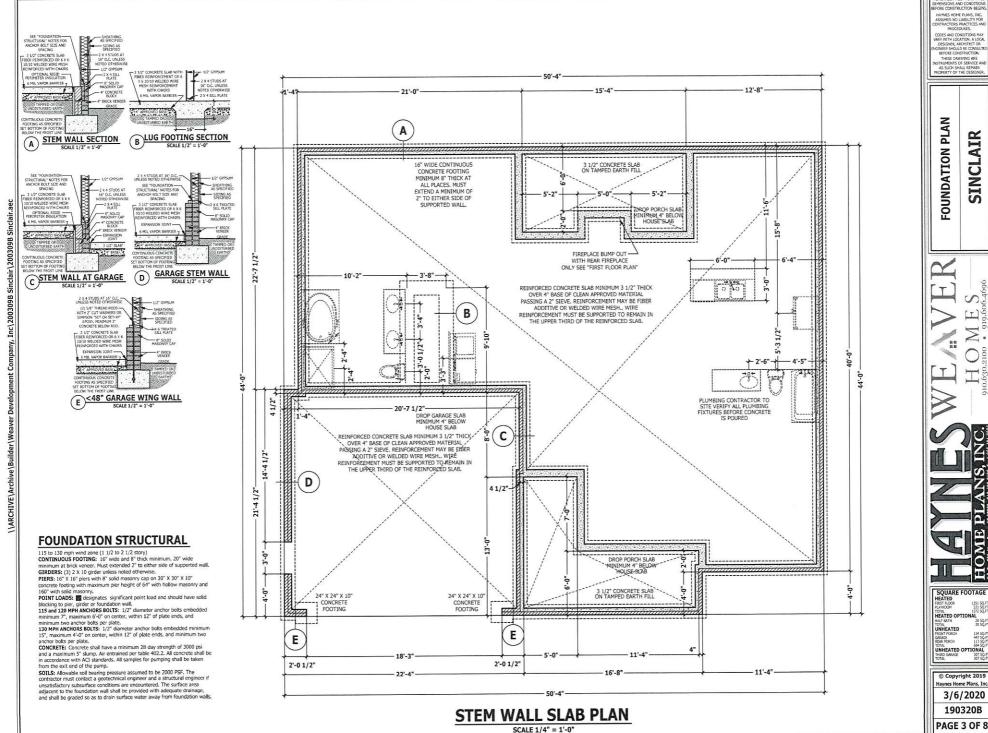
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PAGE 2 OF 8

PURCHASER MUST VERIFY AL

SQUARE FOOTAGE HEATED 28 SQ.FT 28 SQ.FT

3/6/2020



SQUARE FOOTAGE 28 SQ.FT

Haynes Home Plans, Inc.

3/6/2020

PAGE 3 OF 8

28 5Q.FT 28 SQ.FT

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 ocument in no way shall be construed to supersede the code

JOB SITE PRACTICES AND SAFETY: Havnes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents, All members shall be framed, anchored, and braced in accordance with good

construction practice and tr	ne building code.	
DESIGN LOADS	LIVE LOAD	DEA

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.

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=400 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-joists shall be installed according to the manufacture's specifications. Any change in truss or I-inist 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

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 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

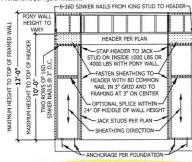
of the brace wall panel closets to the corner.

Methods Per Table R602.10.1

CS-WSP: Shall be minimum 3/8" OSB or CDX nailed at 6" on 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

GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" or 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



PORTAL FRAME AT OPENING (METHOD PF PER FIGURE AND SECTION R602.10.1) SCALE 1/4" = 1'-0"

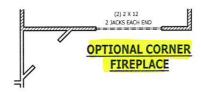
EXTERIOR HEADERS

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



ROOF TRUSS REQUIREMENTS

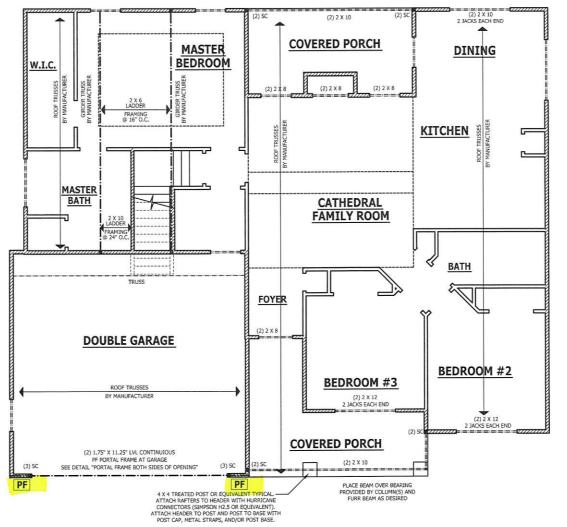
TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan. Inc. attention before construction begins. KNEE WALL AND CEILING HEIGHTS. All finished knee wall heights and ceiling heights are shown furred down 10" from roof decking for insulation. If for any reason the truss manufacturer fails to meet or insulation. If for any reason the cruss manufacturer rais to meet or exceed designated heel heights, finished knee wall heights, or finished calling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the 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



FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"

HAYNES HOME PLANS, INC. SSUMES NO LIABILITY NTRACTORS PRACTICE PROCEDURES.

THESE DRAWING ARE NSTRUMENTS OF SERVICE AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNS

FLOOR STRUCTURAL SINCLAIR

FIRST

SQUARE FOOTAGE HEATED EATED OPTIONA 28 SQ.F 28 SQ.F NHEATED

INHEATED OPT

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JOB SITE PRACTICES AND SAFETY: Havnes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

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 PS1) unless noted other wise

ENGINEERED WOOD BEAMS:
Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9×106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 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-joists 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 $1/2^{\circ}$ x 3 $1/2^{\circ}$ x 1/4" steel angle with $1/2^{\circ}$ bolts at 2'-0" on center for spans up to 18° -0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum $1/2^{\circ}$ 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.

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 exceed designated heel heights, finished knee wall heights, or finished ceiling heights shown on these drawings the finished square footage may vary. Any discrepancy must be brought to Haynes Home Plans, Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the 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.

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'

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

R807.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m2) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M1305.1.3 for access requirements where mechanical equipment is located

Exceptions:

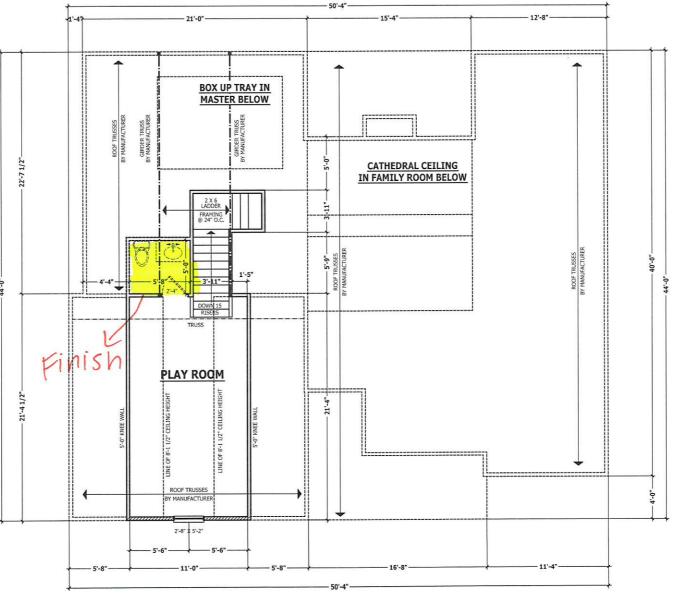
 Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc. are not required to have access.

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

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.



SECOND FLOOR PLAN

SCALE 1/4" = 1'-0"

ORE CONSTRUCTION BEG

LEFORE CONSTRUCTION BEGIN
HAVINES HOME FAINS, INC.
ASSUMES NO LIABILITY FOR
CONTRACTORS PRACTICES AND
PROCEDURES.
CODES AND CONDITIONS MAY
WARY MOTH LOCATION, A LOCAL
DESIGNER, ARCHITECT OR
NOINEER SHOULD BE CONSULT
BEFORE CONSTRUCTION.
THESE ORAYING ARE
INSTRUMENTS OF SERVICE AND
AS SUCH SHALL REMAIN
PROPERTY OF THE DESIGNER.

SECOND FLOOR PLAN SINCLAIR



SQUARE FOOTAGE HEATED OPTIONA 28 SQ.F INHEATED

JNHEATED OPTIONAL

307 SQ.8

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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 KNEE WALL AND CELING HEIGHTS. All finished knee wall heights and celling heights are shown furred down 10" from roof dedoing for insulation. If for any reason the truss manufacturer fails to meet or exceed designated heal heights, finished knee wall heights, or finished celling heights shown on these drawings the finished square footage may vary. Any discrepancy must be trought to Haynes Home Plans. Inc. attention, so a suitable solution can be reached before construction begins. Any variation due to these conditions not being met is the reasonability of the truss manufacturer.

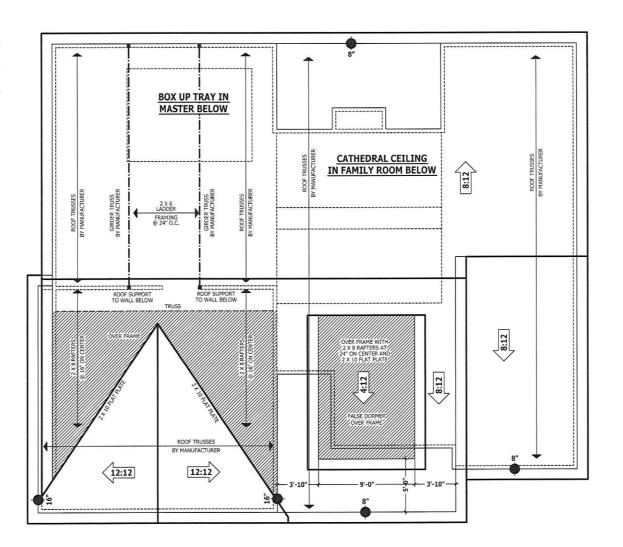
ANCHORAGE. All required anchors for trusses due to uplift or bearing shall meet the requirements as specified on the truss schematics. BEARING, All trusses shall be designed for bearing on SPF #2 plates or

ledgers unless noted otherwise.

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

HEEL HEIGHT ABOVE FIRST FLOOR PLATE

HEEL HEIGHT ABOVE SECOND FLOOR PLATE



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

BEFORE CONSTRUCTION BEGINS HAVES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.

CODES AND CONDITIONS MAY WARY WITH LOCATION A DOCATION A DOCATION A DOCATION A DOCATION A FORWARY WITH LOCATION A THESE ORAWING APE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

ROOF PLAN

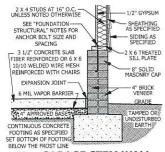
SINCLAIR



SQUARE FOOTAGE HEATED HEATED OPTIONAL UNHEATED UNHEATED
FRONT PORCH
GRANGE 447 SQ.FT.
REAR PORCH 113 SQ.FT.
TOTAL 094 SQ.FT.
UNHEATED OPTIONAL
THEFO GRANGE 307 SQ.FT.
TOTAL 307 SQ.FT.

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GARAGE STEM WALL D

DECK STAIR NOTES

SECTION AM110

AM110.1 Stairs shall be constructed per Figure AM110. Stringer spans shall be no greater than 7 foot span between supports. Spacing between stringers shall be based upon decking material used per AM107.1. Each Stringer shall have minimum 3 1/2 inches between step cut and back of stringer If used, suspended headers shall shall be attached with 3/8 inch galvanized bolts with nuts and washers to securely

DECK BRACING

SECTION AM109

\ARCHIVE\Archive\Builder\Weaver

AM109.1 Deck bracing. Decks shall be braced to provide lateral stability. The following are acceptable means to provide lateral stability.

AM109.1.1, When the deck floor height is less than 4'-0" above finished grade per Figure AM109 and the deck is attached to the structure in accordance with Section

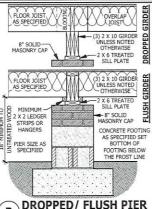
AM104, lateral bracing is not required.

AM109.1.2. 4 x 4 wood knee braces may be provided on each column in both directions. The knee braces shall attach to each post at a point not less than 1/3 of the post length from the top of the post, and the braces shall be angled between 45 degrees and 60 degrees from the horizontal. Knee braces shall be bolted to the post and the girder/double band with one 5/8 inch hot dipp galvanized bolt with nut and washer at both ends of the

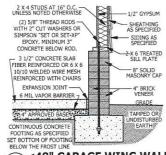
brace per Figure AM109.1 AM109.1.3. For freestanding decks without knee braces or diagonal bracing, lateral stability may be provided by embedding the post in accordance with Figure AM109.2

POST SIZE	TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 X 4	48 SF	4'-0"	2'-6"	1'-0"
6 X 6	120 SF	6'-0"	3'-6"	1'-8"

AM109.1.4. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding decks or parallel to the structure at the reestanding decises of parallel to the solucture at the exterior column line for attached decks. The 2 x 6's shall be attached to the posts with one 5/8 inch hot dipped galvanized bolt with nut and washer at each end of each bracing member per Figure AM109.3. AM109.1.5. For embedment of piles in Coastal Regions, see Chapter 45



В SCALE 3/4" = 1'-0"



<48" GARAGE WING WALL SCALE 3/4" = 1'-0"

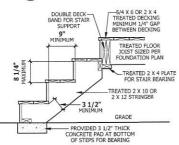


FIGURE AM110 TYPICAL DECK STAIR DETAIL

SCALE 3/4" = 1'-0'

AS SPECIFIED

LATH

SEE FOUNDATION

FOR FOUNDATION

WEEP SCREED

SCALE 3/4" = 1'-0"

STONE VEENER

AS SPECIFIED

VAPOR BARRIER

WEEP SCREED

MINIMUM 4" TO

GROUND OR 2'

TO PAVEMENT

GRADE

WEEP SCREEDS

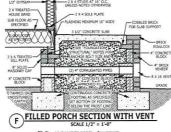
All weep screeds and stone veneer to be installed per manufactures instructions and per the 2012 North Carolina Residential R703.6.2.1 - A minimum 0.019-inch (0.5 mm) (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic

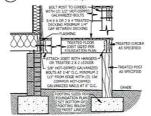
ween screed, with a minimum vertical attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 nches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the

attachment flange of the weep screed.

2 X 4 STUDS AT 16" O.C. -UNLESS NOTED OTHERWISE -1/2" GYPSU№ SUB FLOOR AS-SPECIFIED 2 X RIM FLOOR JOIST — 8" SOLID MASONRY CAP 4" CONCRETE BLOCK 2 X 6 TREATED SILL PLATE -4" BRICK VENEER SEE "FOLINDATION - FXPANSION JOINT STRUCTURAL" NOTES FOR ANCHOR BOLT SIZE AND 6 MIL VAPOR BARRIER 3 1/2" SLAB CONTINUOUS CONCRETE FOOTING AS SPECIFIED SET BOTTOM OF FOOTING

CRAWL SPACE AT GARAGE SCALE 3/4" = 1'-0'





G DECK ATTACHMENT

SMOKE ALARMS

SECTION R314

R314.1 Smoke detection and notification. All smoke alarms shall be the provisions of this code and the household fire warning nent provisions of NFPA 72.

R314.2 Smoke detection systems. Household fire alarm systems installed in accordance with NFPA 72 that include smoke alarms, or a combination of smoke detector and audible notification device installed as required by this section for smoke alarms, shall be permitted. The household fire alarm system shall provide the same level of smoke detection and alarm as required by this section for smoke alarms. Where a household fire warning system is installed using a combination of smoke detector and audible notification device(s), it shall become a permanent fixture of the occupancy and owned by the homeowner. The system shall be monitored by an approved supervising station and be maintained in accordance with

NFPA 72. Exception: Where smoke alarms are provided meeting the equirements of Section R314.4.

R314.3 Location. Smoke alarms shall be installed in the following

. In each sleeping room

2. Outside each separate sleeping area in the immediate vicinity of

 On each additional story of the dwelling, including basements and habitable attics (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) unmanulative (unmanulative) active and unmanulative (unmanulative) attities to its. In olivelings or divelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story. below the upper level.

When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of

the alarms in the individual unit.

R314.4 Power source. Smoke alarms shall receive their primary R314.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required fo overcurrent protection. Smoke alarms shall be interconnected.

SEE ROOF - EDGED OR PORCH FLOOR PLAN OR ELEVATION SHINGLES AS SPECIFIED SHEATHING AS SPECIFIED - 15# BUILDING FELT ROOF TRUSSES BY MANUFACTURER PORCH HEADER PER DI AN INSTALLED OVER CENTER OF COLUMN BASE LATINAL OF HADDIE SOFETT INSTALLED PER MANUFACTURERS BLOCKING INSTALLED-INSTRUCTIONS ON BOTH SIDES & UNDER HEADER AS DESIRED APERED COLUMN OVER 1 X MATERIAL ATTACHED TO HEADER CENTER LINE OF HEADER WITH POST CAP AND COLUMN

PORCH HEADER WITH **TAPERED COLUMN**

SCALE 3/4" = 1'-0"

CARBON MONOXIDE ALARMS

provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed

by the alarm manufacturer.
R315.2 Where required in existing dwellings. In existing dwellings, when interior alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or ted, carbon monoxide alarms shall be provided in accordance with Section

R315,3 Alarm requirements. The required carbon monoxide alarms shall be audible in all bedrooms over background noise levels with all intervening doors closed. Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

STAIRWAY NOTES

R311.7.2 Headroom. The minimum headroom in all parts of the stairwa shall not be less than 6 feet 8 inches (2032 mm) measured vertically from the sloped line adjoining the tread nosing or from the floor surface of the landing or platform on that portion of the stalrway. R311.7.4 Stair treads and risers. Stair treads and risers shall meet the

requirements of this section. For the purposes of this section all dimensions and dimensioned surfaces shall be exclusive of carpets, rugs or runners. R311.7.4.1 Riser height. The maximum riser height shall be 8 1/4 inches (210 mm). The riser shall be measured vertically between leading edges of

the adjacent treads. R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 mm). The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. Winder treads shall have a minimum tread depth of 9 inches (229 mm) measured as above at a point 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a minimum tread depth of 4 inches (102 mm) at any point.

R311.7.4.3 Profile. The radius of curvature at the nosing shall be no greate than 9/16 inch (14 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4 inches (32 mm) shall be provided on stairways with solic

R311,7.7 Handrails. Handrails shall be provided on at least one side of each continuous run of treads or flight with four or more risers.
R311,7.7.1 Height. Handrail height, measured vertically from the sloped

plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

1. The use of a valute, turnout or starting easing shall be allowed over the

When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

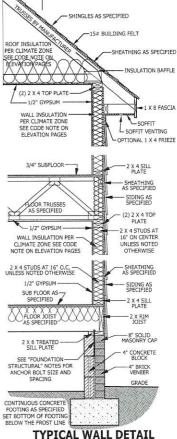
be permitted to exceed the maximum height.

R311.7.7.2 Continuity. Handralls for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

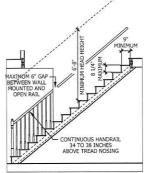
Exceptions:

drails shall be permitted to be interrupted by a newel post . The use of a volute, turnout, starting easing or starting newel shall be ved over the lowest tread.

 Two or more separate rails shall be considered continuous if the 3. Two or more separate rais rais to econisect continuous in the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.



TCH PER ROOF PLAN



SCALE 3/4" = 1'-0"

TYPICAL STAIR DETAIL SCALE 1/4" = 1'-0

DOES AND CONDITIONS MAY THESE DRAWING ARE ISTRUMENTS OF SERVICE AN AS SUCH SHALL REMAIN ROPERTY OF THE DESIGNER

HAYNES HOME PLANS, INC.

AIR DETAIL

SINCL/ TYPICAL

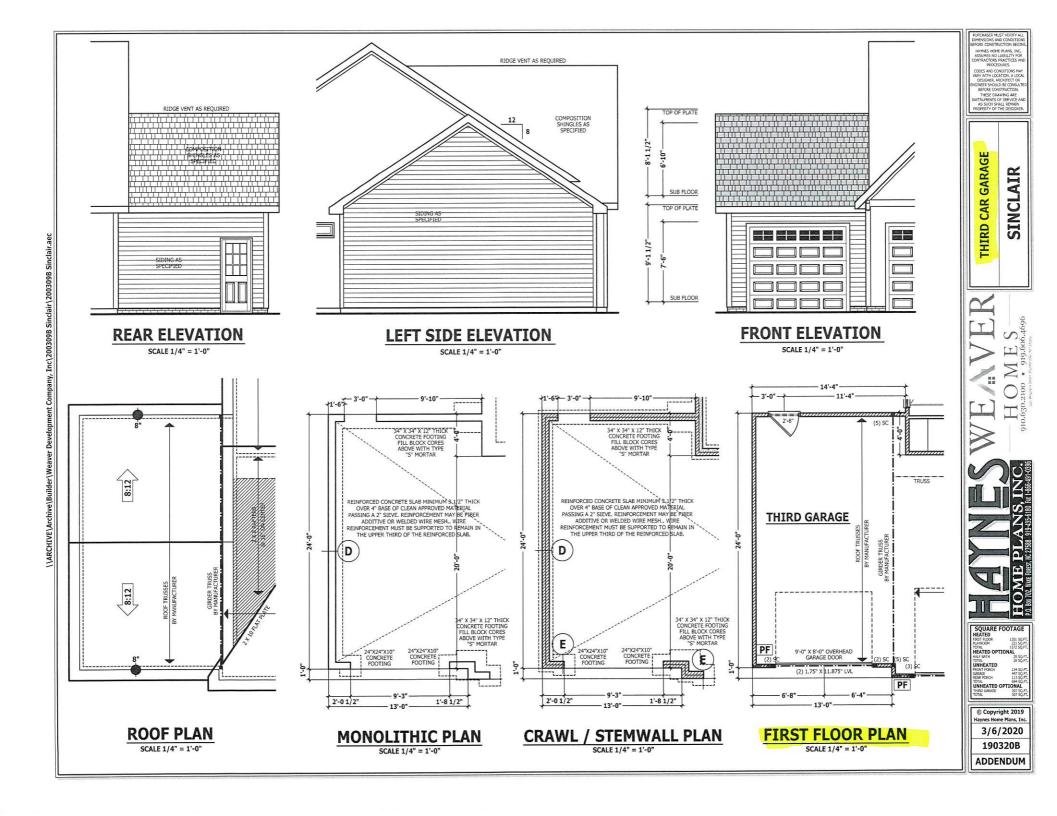
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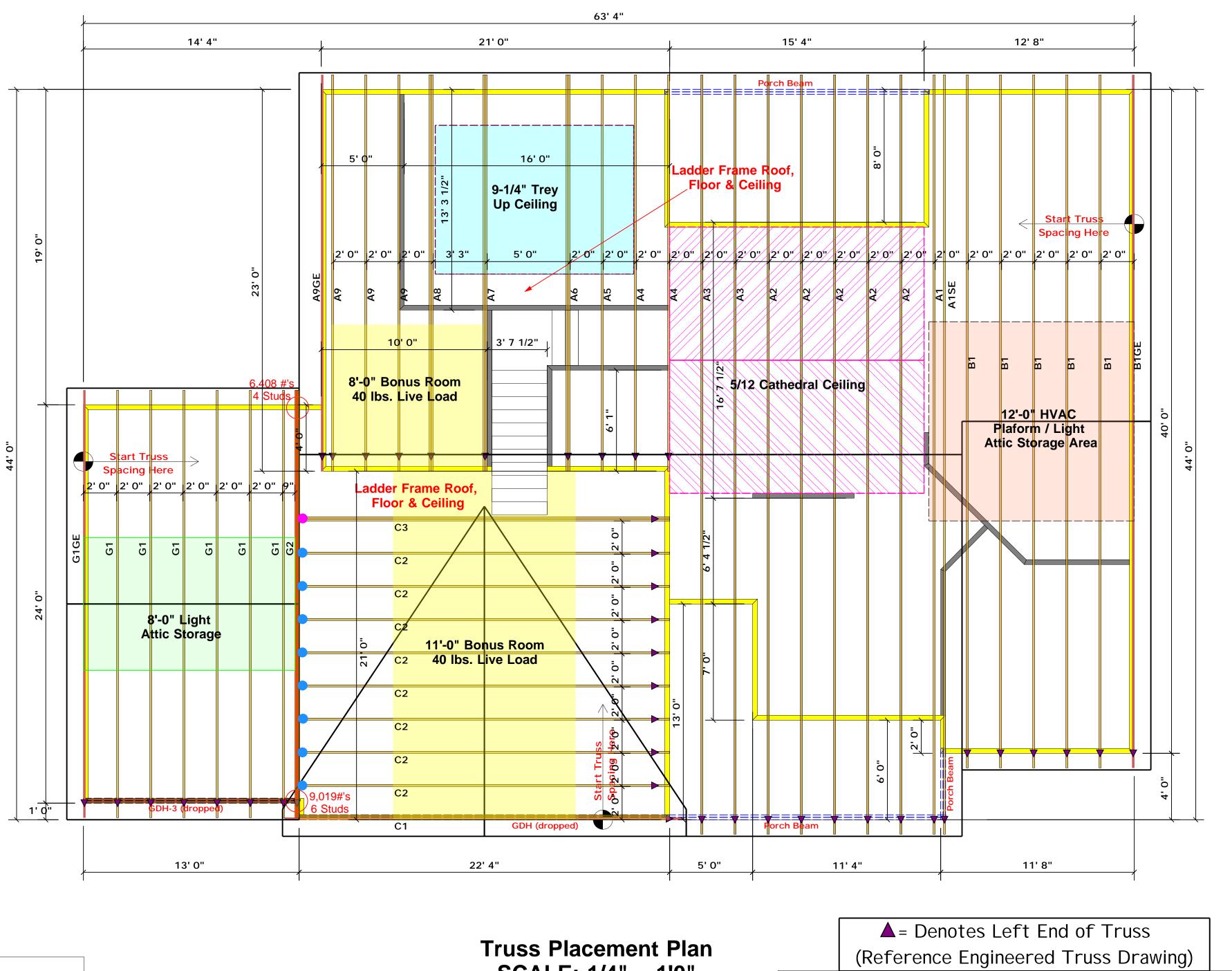
O

SQUARE FOOTAGE EATED OPTIO 28 SQ.F 28 SQ.F NHEATED INHEATED OP TIONAL

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190320B PAGE 8 OF 8





SCALE: 1/4" = 1'0"

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

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 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

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

BUILDER

соттесн

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Lenny Norris

3400 1

6800 2

13600 4

17000 5

Lenny Norris

DRAWN BY

Lenny Norris

SALESMAN

LOAD CHART FOR JACK STUDS

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GITDER

2550 1

5100 2

10200 4

12750 5

15300 6

1700 1

3400 2

5100 3

6800 4

8500 5

10200 6

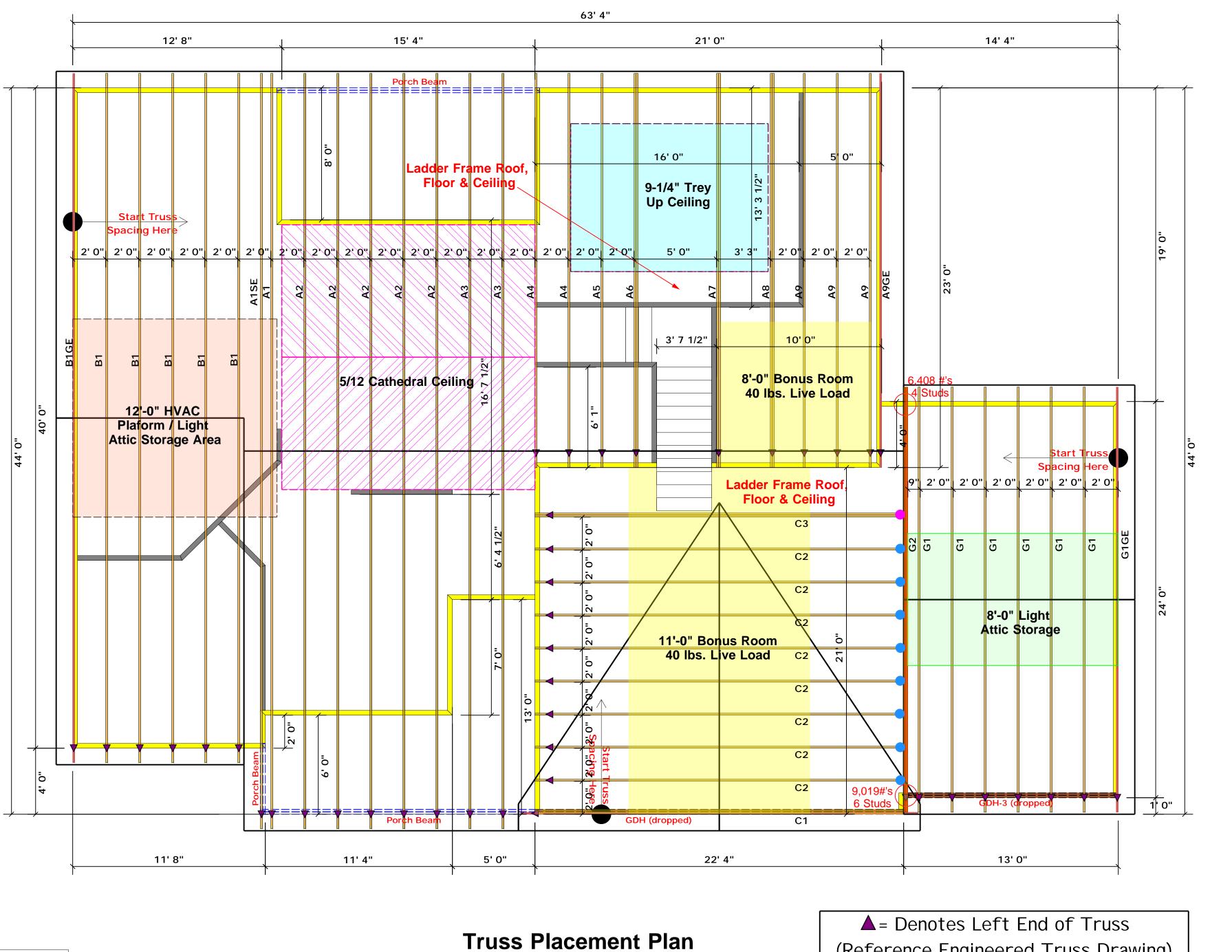
11900 7

13600 8

15300 9

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

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



SCALE: 1/4" = 1'0"

(Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

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

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GDH (dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2

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соттесн

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Lenny Norris

3400 1

6800 2

13600 4

17000 5

Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS

NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GITDER

2550 1

5100 2

10200 4

12750 5

15300 6

1700 1

3400 2

5100 3 6800 4

8500 5

10200 6

11900 7

13600 8

15300 9



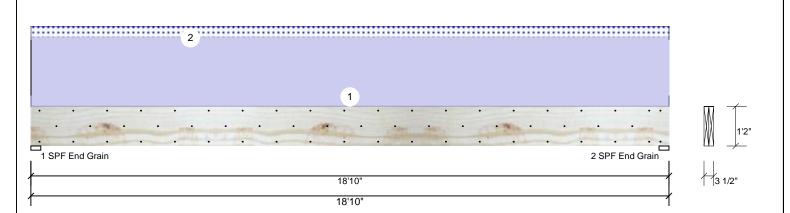
Client: Weaver Development Project: Sinclair (190320B) Address: Sinclair (190320B) Date: 4/15/2020

Input by: Christine Shivy

Job Name: GDH Project #:

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL GDH**

Level: Level



Member Info	ormation						Reaction	ns UNPAT	TERNE	D lb (Uplift))		
Type:	Girder		Applicat	ion: F	loor		Brg	Live	Dea	d Snow	,	Wind	Const
Plies:	2		Design I	Method: A	SD		1	0	259	8 377		0	0
Moisture Condi	tion: Dry		Building	Code: IE	BC 2012		2	0	259	8 377		0	0
Deflection LL:	480		Load Sh	aring: N	0								
Deflection TL:	360		Deck:	N	ot Checked								
Importance:	Normal												
Temperature:	Temp <= 10	0°F											
							Bearings	S					
							Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
							1 - SPF	3.500"	28%	2598 / 377	2975	L	D+S
							End						
Analysis Res	ults						Grain						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	2 - SPF	3.500"	28%	2598 / 377	2975	L	D+S
Moment	11644 ft-lb	9'5"	24299 ft-lb	0.479 (48%) D	Uniform	End Grain						
Unbraced	13332 ft-lb	9'5"	13339 ft-lb	0.999 (100%)	D+S	L							
Shear	2213 lb	1'4 3/4"	9408 lb	0.235 (24%) D	Uniform	1						

Design Notes

1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".

9'5 1/16" 0.459 (L/480) 0.150 (15%) S

9'5 1/16" 0.612 (L/360) 0.880 (88%) D+S

- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 7'8 5/8" o.c.
- 6 Bottom braced at bearings.

LL Defl inch 0.068 (L/3239)

TL Defl inch 0.538 (L/410)

7 Lateral slenderness ratio based on single ply width.

H											
١	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
١	1	Uniform			Тор	225 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Exterior Siding / Plywood
١	2	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	2'0" Roof Load
١		Self Weight				11 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- Handling & Installation

 1. UVI beams must not be out or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/26/2023

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 1 of 1





Client: Project: Address:

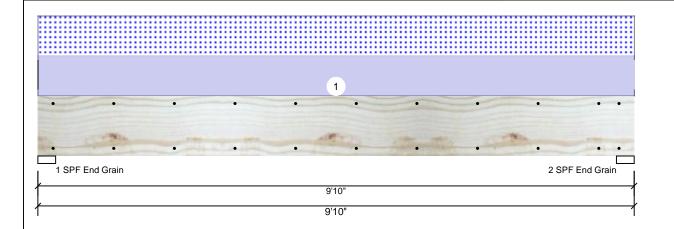
Weaver Development Sinclair (190320B) Sinclair (190320B) Date: 4/15/2020 Input by: Christine Shivy

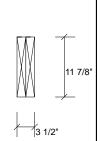
Job Name: GDH-3

Project #:

Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED GDH-3

Level: Level





Page 1 of 1

Member Information				
Type:	Girder			
Plies:	2			
Moisture Condition:	Dry			
Deflection LL:	480			
Deflection TL:	360			
Importance:	Normal			
Temperature:	Temp <= 100°F			

Application: Floor Design Method: ASD **Building Code:** IBC 2012 Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift)					
Brg	Live	Dead	Snow	Wind	Const
1	0	1422	1377	0	0
2	0	1422	1377	0	0

Analysis Results Analysis Actual Location Allowed Capacity Comb. Case 0.273 (27%) D+S Moment 6254 ft-lb 4'11" 22897 ft-lb L Unbraced 6254 ft-lb 4'11" 9857 ft-lb 0.634 (63%) D+S L 2105 lb 10197 lb 0.206 (21%) D+S Shear 1'2 5/8" ī LL Defl inch 0.058 (L/1928) 4'11" 0.234 (L/480) 0.250 (25%) S L TL Defl inch 0.119 (L/948) 4'11" 0.312 (L/360) 0.380 (38%) D+S L

Bearings Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 1422 / 1377 2799 I D+S End Grain

1422 / 1377 D+S 2 - SPF 3.500" 2799 L End Grain

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings.

Uniform

7 Lateral slenderness ratio based on single ply width. ID Trib Width Side Dead 0.9 Load Type Location Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments

Top 280 PLF 0 PLF 280 PLF 0 PLF 0 PLF

Self Weight 9 PLF

Notes

1

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

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 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVI beams must not be cut or drilled
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- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 2/26/2023 CSD I

Manufacturer Info