

MM25  
Full Front Porch

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



CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
MEAN ROOF HEIGHT: 18'-4"	HEIGHT TO RIDGE: 24'-8"		
FENESTRATION U-FACTOR	0.35	0.35	0.35
SOLAR RADIATION SHGC	0.55	0.55	0.55
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
1st BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

\*1013 MEANS R-13 SHEATHING INSULATION OR R-13 CAVITY INSULATION  
\*\* INSULATION DEPTH WITH MONOLITHIC SLAB 2" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING. INSULATION DEPTH WITH STEM WALLS SLAB 2" OR TO BOTTOM OF FOUNDATION WALL  
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE EXPOSURE "B")

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS

MEAN ROOF	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'
ZONE 1	14.2 -15.0	14.9 -15.8	15.5 -16.4	15.9 -16.8
ZONE 2	14.2 -18.0	14.9 -18.9	15.5 -19.6	15.9 -20.2
ZONE 3	14.2 -18.0	14.9 -18.9	15.5 -19.6	15.9 -20.2
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

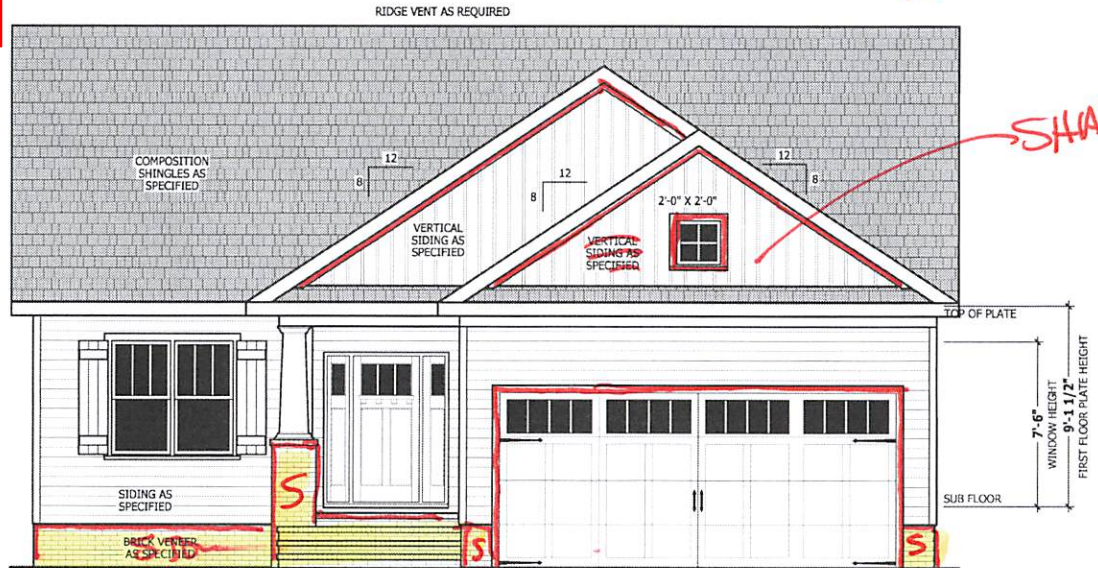
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE EXPOSURE "B")

COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS

MEAN ROOF	UP TO 30'	30'-1" TO 35'	35'-1" TO 40'	40'-1" TO 45'
ZONE 1	16.7 -18.0	17.5 -18.9	18.2 -19.6	18.7 -20.2
ZONE 2	16.7 -21.0	17.5 -22.1	18.2 -22.9	18.7 -23.5
ZONE 3	16.7 -21.0	17.5 -22.1	18.2 -22.9	18.7 -23.5
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

**SQUARE FOOTAGE**

HEATED	1553 SQ. FT.
FIRST FLOOR TOTAL	1553 SQ. FT.
UNHEATED	419 SQ. FT.
GARAGE	103 SQ. FT.
FRONT PORCH	66 SQ. FT.
REAR PORCH	117 SQ. FT.
REAR PORCH EXT	705 SQ. FT.
TOTAL	705 SQ. FT.



**FRONT ELEVATION - B**  
SCALE 1/4" = 1'-0"

**ROOF VENTILATION**

**SECTION R806**  
**R806.1 Ventilation required.** Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware cloth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

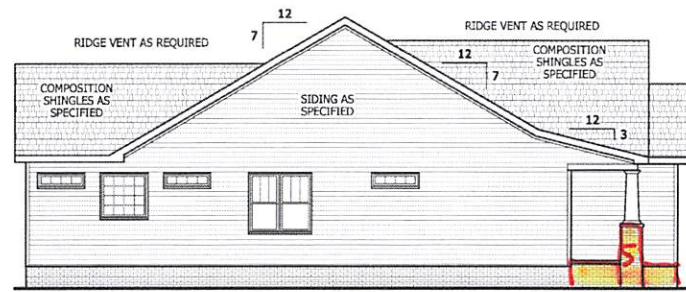
**R806.2 Minimum area.** The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

**Exceptions:**  
1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only.  
2. Enclosed attic/rafter spaces over unconditioned space may be vented through continuous soffit vent only.

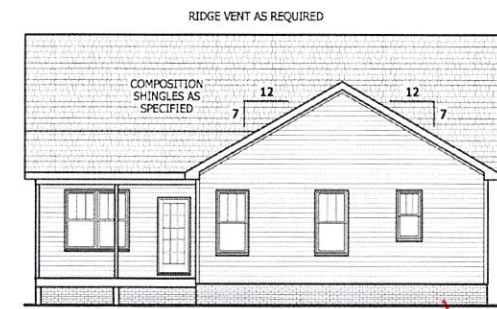
SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,192 SQ. FT.  
NET FREE CROSS VENTILATION NEEDED:  
WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 14.61 SQ. FT.  
WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.31 SQ. FT.

**AIR LEAKAGE**

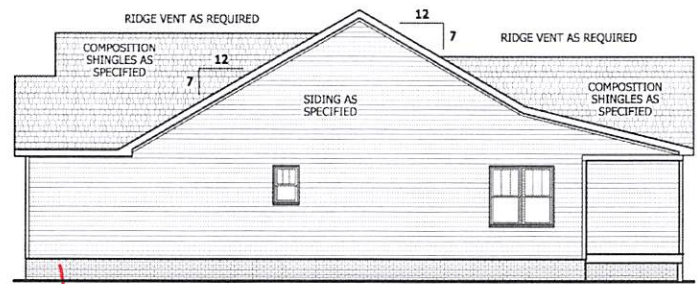
**Section N1102.4**  
**N1102.4.1 Building thermal envelope.** The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, 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.  
2. Capping and sealing shafts or chases, including flue shafts.  
3. Capping and sealing soffit or dropped ceiling areas.



**LEFT SIDE ELEVATION**  
SCALE 1/8" = 1'-0"



**REAR ELEVATION**  
SCALE 1/8" = 1'-0"



**RIGHT SIDE ELEVATION**  
SCALE 1/8" = 1'-0"

**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 not be 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.  
**Exceptions:**  
1. 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 treads.  
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 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:**  
1. 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 diameter.

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGIN. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.  
CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.  
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE. ANY AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

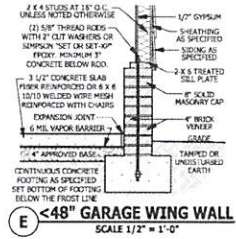
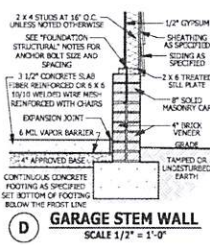
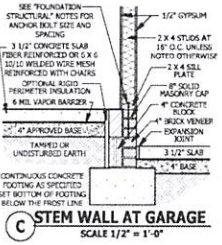
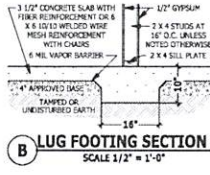
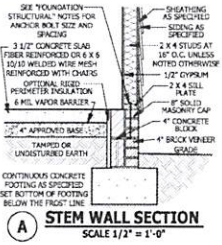
**ELEVATION - B**  
**Lindsay 1553**

**HAYNES WEAVER**  
**HOMES**  
**HOME PLANS, INC.**  
610.650.2700 • 610.668.1806

**SQUARE FOOTAGE**

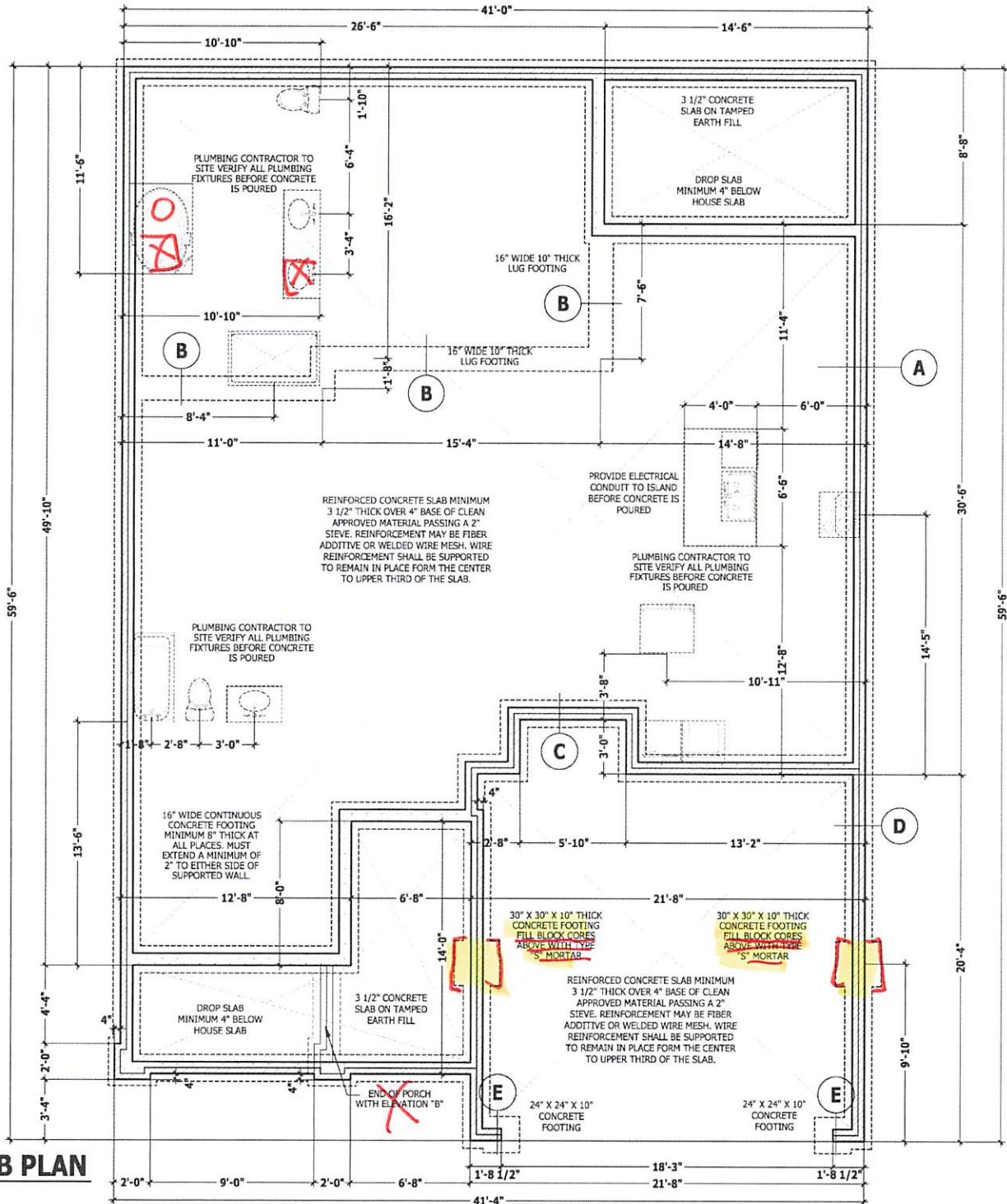
HEATED	1553 SQ. FT.
FIRST FLOOR TOTAL	1553 SQ. FT.
UNHEATED	419 SQ. FT.
GARAGE	103 SQ. FT.
FRONT PORCH	66 SQ. FT.
REAR PORCH EXT	705 SQ. FT.
TOTAL	705 SQ. FT.

\\ARCHIVE\Archive\Builder\ Weaver Development Company, Inc\200505B Lindsay 1616\200505B Lindsay 1553.aec



**FOUNDATION STRUCTURAL**

115 to 130 mph wind zone (1 1/2 to 2 1/2 story)  
**CONTINUOUS FOOTING:** 16" wide and 8" thick minimum. 20" wide minimum at brick veneer. Must extend 2" to either side of supported wall.  
**GIRDERS:** (3) 2 X 10 girder unless noted otherwise.  
**PIERS:** 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 150" with solid masonry.  
**POINT LOADS:** ■ designates significant point load and should have solid blocking to pier, girder or foundation wall.  
**115 and 120 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.  
**130 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.  
**CONCRETE:** Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrainment per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.  
**SOILS:** Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.



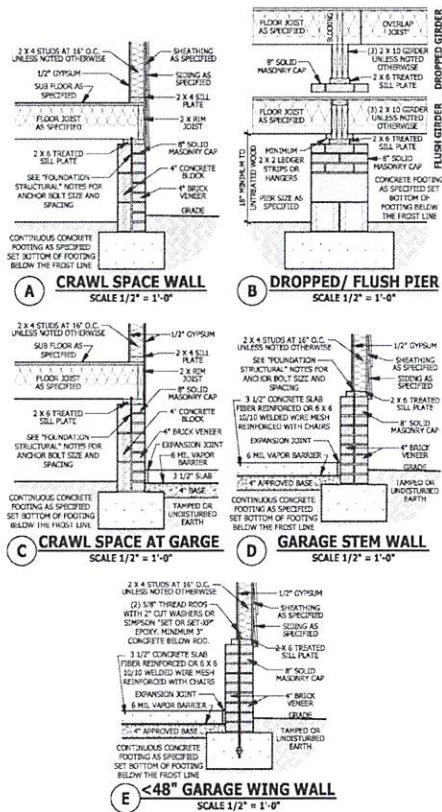
PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICE AND PROCEDURES. CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**STEM WALL SLAB PLAN**  
**Lindsay 1553**

**HAYNES WEAVER HOME PLANS, INC.**  
 HOME PLANS, INC.  
 OLD 6300 STATE ROAD 1606

**SQUARE FOOTAGE**

HEATED FLOOR	1331.00 SF
UNHEATED	1331.00 SF
GARAGE	431.50 SF
FRONT PORCH EXT	146.50 SF
REAR PORCH	100.00 SF
TOTAL	3040.00 SF



### FOUNDATION STRUCTURAL

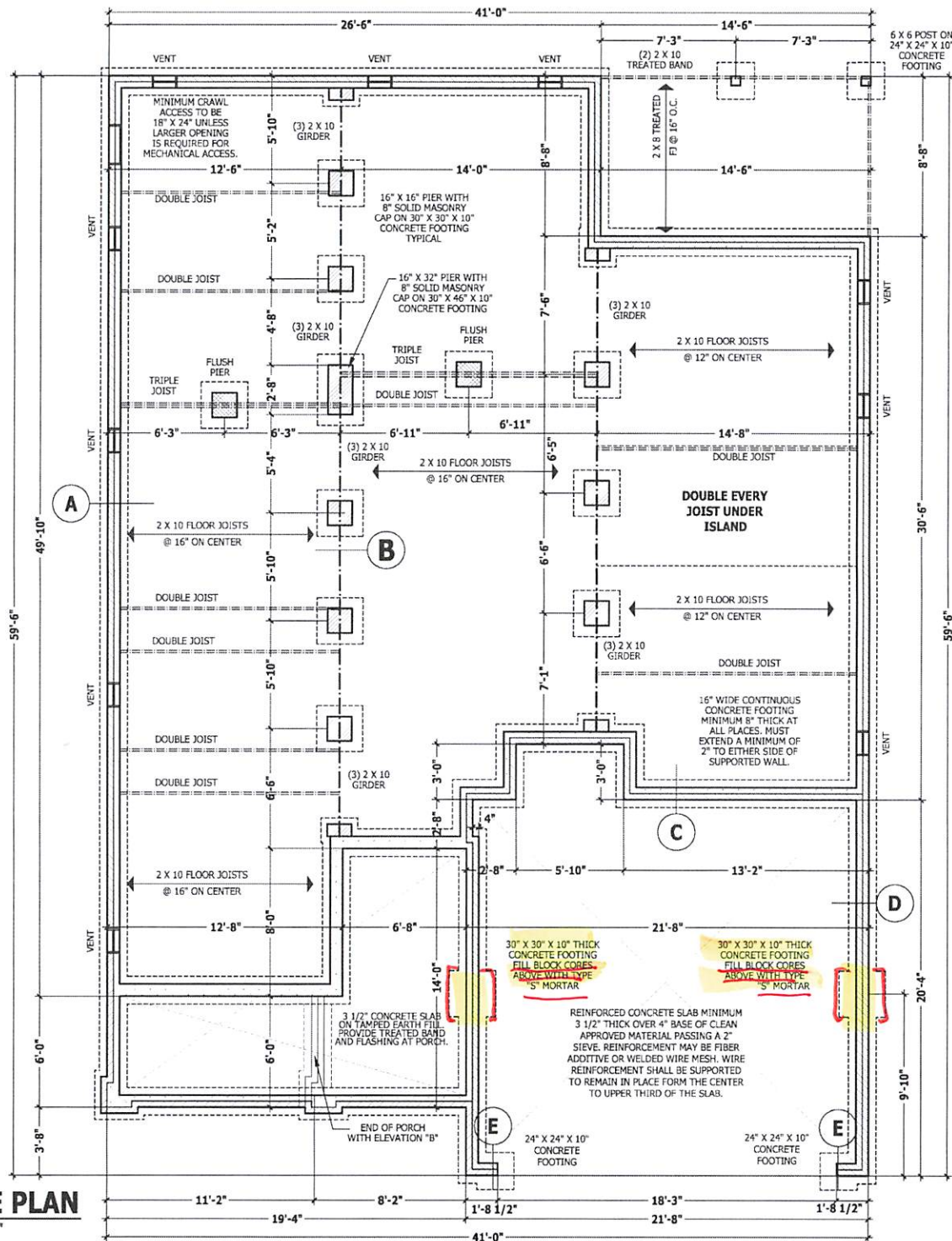
115 to 130 mph wind zone (1 1/2 to 2 1/2 story)  
**CONTINUOUS FOOTING:** 16" wide and 8" thick minimum. 20" wide minimum at brick veneer. Must extend 2" to either side of supported wall.  
**GIRDERS:** (3) 2 X 10 girder unless noted otherwise.  
**PIERS:** 16" X 16" piers with 8" solid masonry cap on 30" X 30" X 10" concrete footing with maximum pier height of 64" with hollow masonry and 160" with solid masonry.  
**POINT LOADS:** ■ designates significant point load and should have solid blocking to pier, girder or foundation wall.  
**115 and 120 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 7", maximum 6'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.  
**130 MPH ANCHORS BOLTS:** 1/2" diameter anchor bolts embedded minimum 15", maximum 4'-0" on center, within 12" of plate ends, and minimum two anchor bolts per plate.  
**CONCRETE:** Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.  
**SOILS:** Allowable soil bearing pressure assumed to be 2000 PSF. The contractor must contact a geotechnical engineer and a structural engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided with adequate drainage, and shall be graded so as to drain surface water away from foundation walls.

### WALL VENTED CRAWL SPACES

**UNDER-FLOOR SPACE (SECTION R408)**  
 SQUARE FOOTAGE OF FOUNDATION TO BE VENTED = 1,462 SQ.FT.  
 WITHOUT CROSS VENTILATION AREA OF VENTING NEEDED = 9.75 SQ.FT.  
 WITH CROSS VENTILATION AREA OF VENTING NEEDED = 0.975 SQ.FT.  
 NOTE: NUMBER OF VENTS NEEDED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.

## CRAWL SPACE PLAN

SCALE 1/4" = 1'-0"



PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGIN. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS' PRACTICES OR PROCEDURES.  
 CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**CRAWL SPACE PLAN**  
**Lindsay 1553**

**HAYNES WEAVER**  
**HOME PLANS, INC.**  
 HOME PLAN  
 610.650.2700 • 010.663.4808

SQUARE FOOTAGE	
HEATED FLOOR	1130.92 SF
UNHEATED	183.92 SF
FRONT PORCH	168.50 SF
FRONT PORCH EXT.	148.50 SF
REAR PORCH	168.50 SF
TOTAL	1800.34 SF

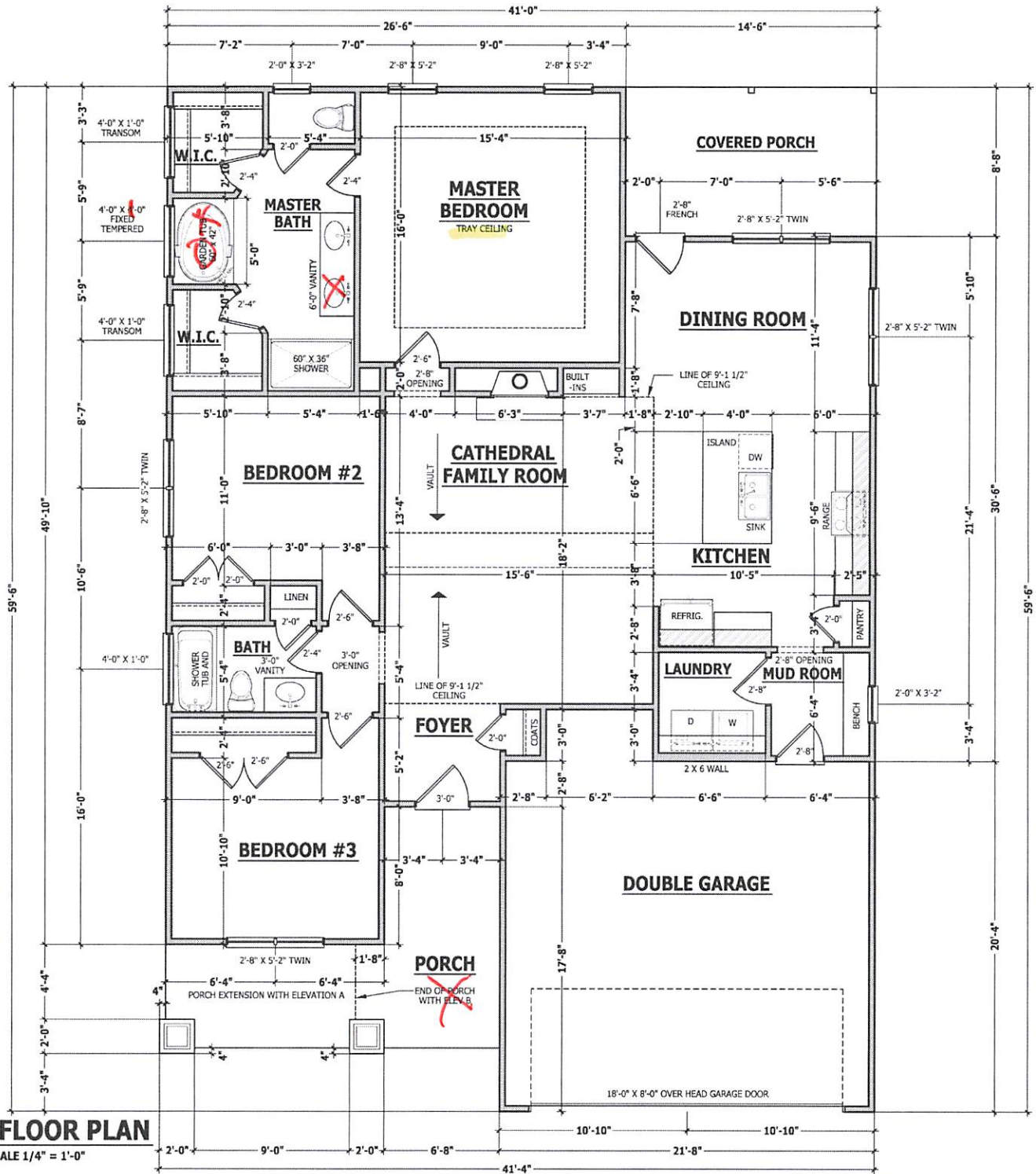
PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.  
 HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS PRACTICES AND PROCEDURES.  
 CLOUDS AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.  
 THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**FIRST FLOOR PLAN**  
**Lindsay 1553**

**HAYNES WEAVER**  
 HOMES  
 HOME PLANS, INC.  
 010.606.1006

**HAYNES WEAVER**  
 HOME PLANS, INC.

SQUARE FOOTAGE	
HEATED FIRST FLOOR TOTAL	1553 SQ. FT.
UNHEATED GARAGE	419 SQ. FT.
FRONT PORCH	103 SQ. FT.
FRONT PORCH EXT.	66 SQ. FT.
REAR PORCH	117 SQ. FT.
TOTAL	705 SQ. FT.



**ATTIC ACCESS**

**SECTION R307**  
**R307.1 Attic access.** An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m<sup>2</sup>) 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-mch (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 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.

**DWELLING / GARAGE SEPARATION**

REFER TO SECTIONS R302.5, R302.6, AND R302.7  
**WALLS.** A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.  
**STAIRS.** A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.  
**CEILINGS.** A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.  
**OPENING PENETRATIONS.** Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.  
**DUCT PENETRATIONS.** Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.  
**OTHER PENETRATIONS.** Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

**SQUARE FOOTAGE**

HEATED	
FIRST FLOOR TOTAL	1553 SQ. FT.
UNHEATED	
GARAGE	419 SQ. FT.
FRONT PORCH	103 SQ. FT.
FRONT PORCH EXT.	66 SQ. FT.
REAR PORCH	117 SQ. FT.
TOTAL	705 SQ. FT.

**FIRST FLOOR PLAN**

SCALE 1/4" = 1'-0"

\\ARCHIVE\Archive\Builder\Weaver Development Company, Inc\200505B Lindsay 1616\200505B Lindsay 1553.aec

## 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.

**JOB SITE PRACTICES AND SAFETY:** Haynes Home Plans, Inc. assumes no liability for contractor 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 USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
Attics without storage	10	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/infill 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	10	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 otherwise.

**ENGINEERED WOOD BEAMS:**  
 Laminated veneer lumber (LVL) = Fb=2600 PSI, E=1.9x10<sup>6</sup> PSI  
 Parallel strand lumber (PSL) = Fb=2900 PSI, E=2.0x10<sup>6</sup> PSI  
 Laminated strand lumber (LSL) = Fb=2250 PSI, E=1.55x10<sup>6</sup> PSI  
 Install all connectors per manufacturer's instructions.

**TRUSS AND JOIST MEMBERS:** All roof truss and joist layouts shall be prepared in accordance with this document. Trusses and joists shall be installed according to the manufacturer's specifications. Any change in truss or joist layout shall be coordinated with Haynes Home Plans, Inc.  
**LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1 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.

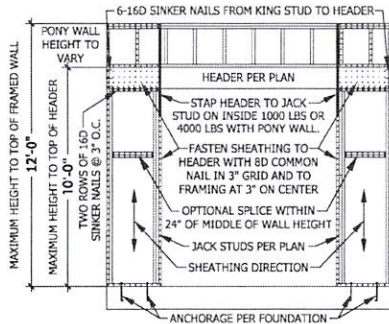
**CONCRETE AND SOILS:** See foundation notes.

## 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.

**ANCHORAGE:** All required anchors for trusses due to uplift or bracing 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.



**PF 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'-6'	6'-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

## 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 its 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 closest to the corner.

**Methods:** Per Table R602.10.1

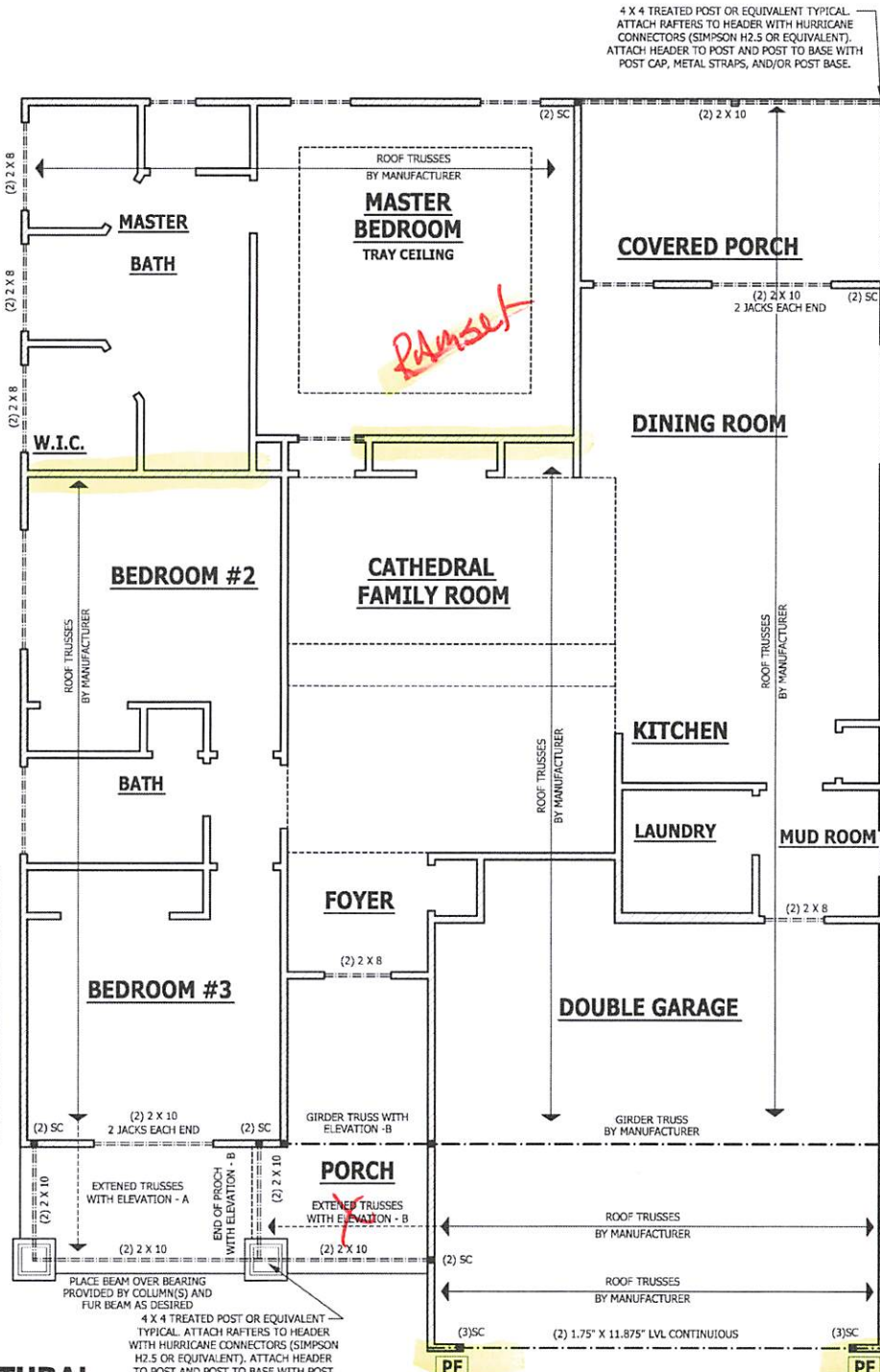
**CS-WSP:** Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter).  
**CS-SFB:** Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing 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 frame per figure R602.10.1

# FIRST FLOOR STRUCTURAL

SCALE 1/4" = 1'-0"



4 X 4 TREATED POST OR EQUIVALENT TYPICAL. ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE.

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.  
 HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR PRACTICES AND PROCEDURES.  
 LOADS AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.  
 THESE DRAWINGS ARE INSTRUMENTS OF SERVICE. ANY AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**FIRST FLOOR STRUCTURAL**  
**Lindsay 1553**

**HAYNES WEAVER**  
**HOMES**  
 HOME PLANNING  
 010.670.9100 • 010.606.4806

**HAYNES WEAVER**  
**HOME PLANNING**

SQUARE FOOTAGE	
HEATED	1303 SQ FT
UNHEATED	103 SQ FT
GARAGE	410 SQ FT
FRONT PORCH	203 SQ FT
REAR PORCH EXT	46 SQ FT
REAR PORCH	55 SQ FT
TOTAL	2140 SQ FT

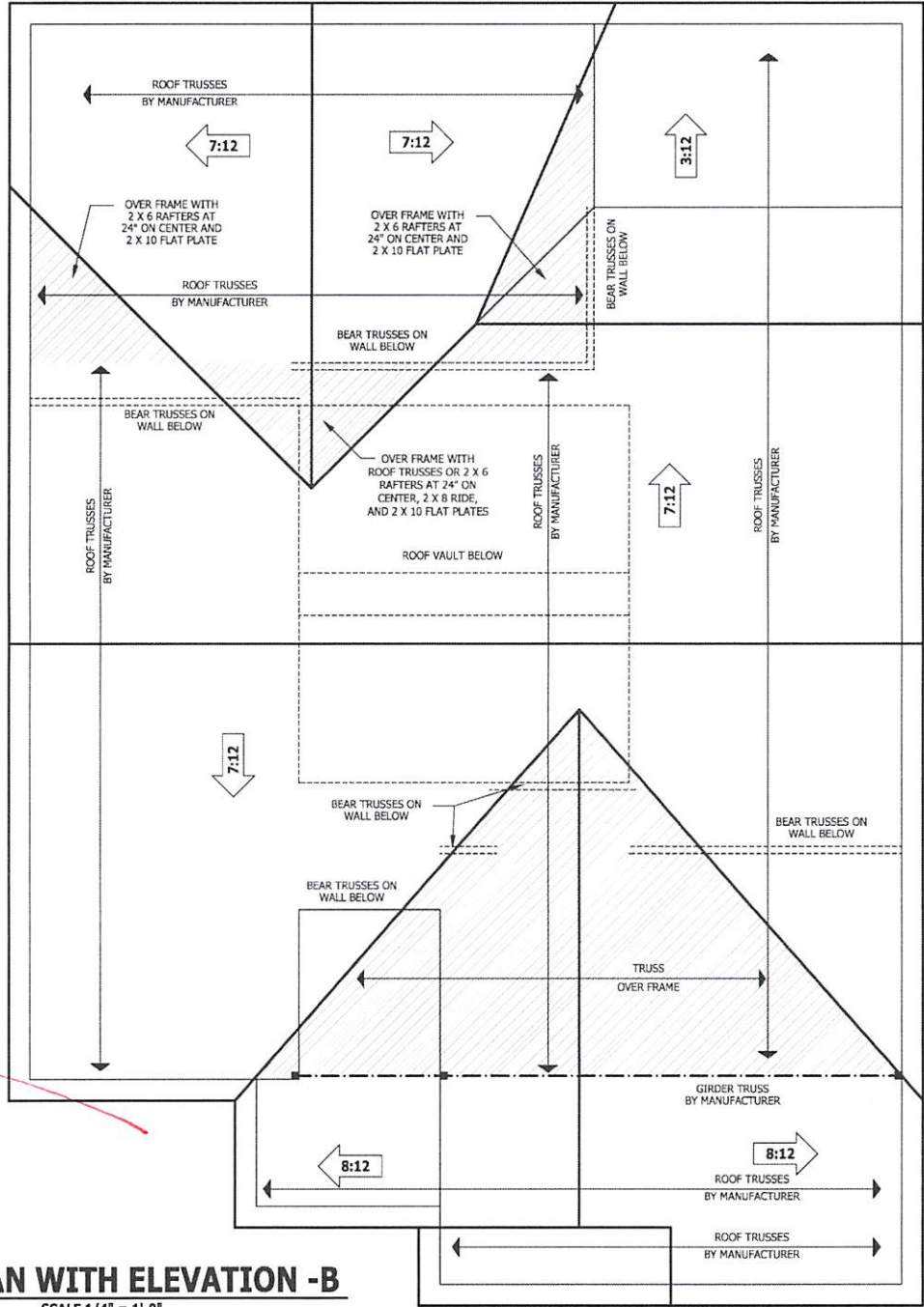
© Copyright 2020  
 Haynes Home Plans, Inc.  
 5/12/2020  
 200505B  
 PAGE 4 OF 6

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS.  
 HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTOR PRACTICES AND PROCEDURES.  
 CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHOULD BE CONSULTED BEFORE CONSTRUCTION.  
 THESE DRAWINGS AND INSTRUMENTS OR SERVICES AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

**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.  
**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.

*SHEP  
Porch*



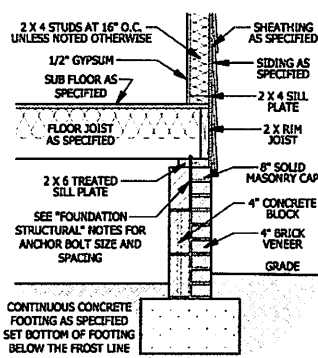
**ROOF PLAN WITH ELEVATION -B**

SCALE 1/4" = 1'-0"

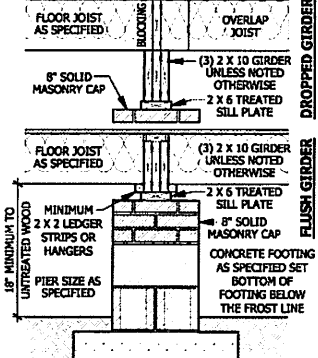
**ROOF PLAN WITH ELEVATION -B**  
**Lindsay 1553**

**HAYNES WEAVER**  
**HOME PLANS, INC.**  
 HOMES  
 010.690.9100 • 010.690.4006

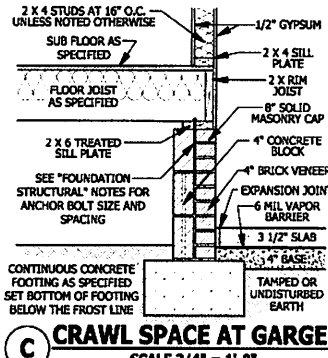
SQUARE FOOTAGE	
HEATED	3100 SQ FT
COST ROOM	1100 SQ FT
UNHEATED	420 SQ FT
GARAGE	420 SQ FT
FRONT PORCH	16 SQ FT
FRONT PORCH EXT	17 SQ FT
REAR PORCH	100 SQ FT
TOTAL	4173 SQ FT



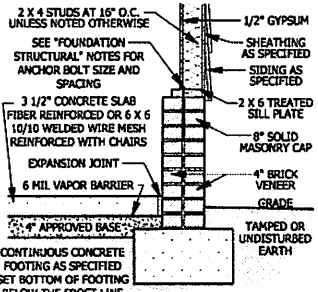
**A CRAWL SPACE WALL**  
SCALE 3/4" = 1'-0"



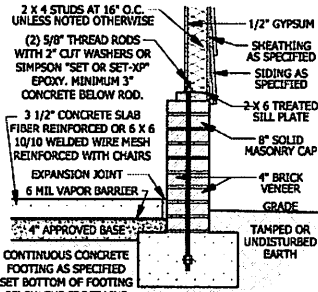
**B DROPPED/ FLUSH PIER**  
SCALE 3/4" = 1'-0"



**C CRAWL SPACE AT GARGE**  
SCALE 3/4" = 1'-0"



**D GARAGE STEM WALL**  
SCALE 3/4" = 1'-0"



**E <48\"/>**

**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 3/2\"/>

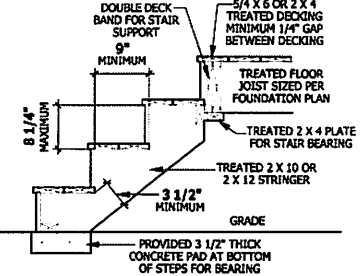
**DECK BRACING**

**SECTION AM109**  
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\"/>

**FIGURE AM110 TYPICAL DECK STAIR DETAIL**  
SCALE 3/4" = 1'-0"

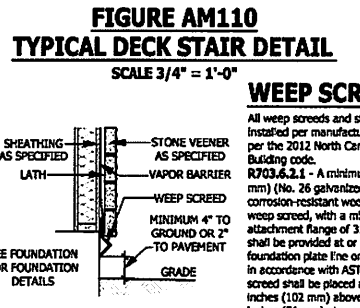
POST SIZE	MAX. TRU/FLOOR HEIGHT	MAX. POST EMBEDMENT DEPTH	CONCRETE DIAMETER
4 X 4	48 SF	4'-0"	2'-6"
4 X 4	48 SF	6'-0"	2'-6"
6 X 6	120 SF	6'-0"	3'-6"

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 gable/hoistable band with one 5/8\"/>



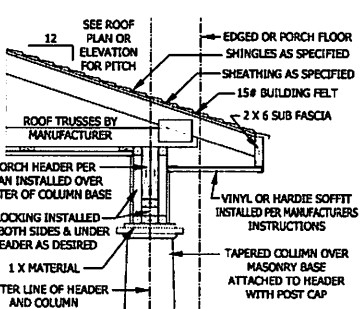
**SMOKE ALARMS**

**SECTION R334**  
R334.1 Smoke detection and notification. All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.  
R334.2 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 feature 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.  
Exceptions: Where smoke alarms are provided meeting the requirements of Section R314.4.  
R334.3 Location. Smoke alarms shall be installed in the following locations:  
1. In each sleeping room.  
2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.  
3. On each additional story of the dwelling, including basements and habitable attic (finished) but not including crawl spaces, uninhabitable (unfinished) attics and uninhabitable (unfinished) attic stories. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm listed 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.  
R334.4 Power source. Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a listed central source, and the primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.



**WEEP SCREEN**  
SCALE 3/4" = 1'-0"

AM109.1.3. For freestanding docks without knee braces or gable/hoistable band, lateral stability may be provided by embedding the post in accordance with Figure AM109.2 and the following:  
AM109.1.3.1. 2 x 6 diagonal vertical cross bracing may be provided in two perpendicular directions for freestanding docks or parallel to the structure at the exterior column line for attached docks. The 2 x 6s shall be attached to the posts with one 5/8\"/>



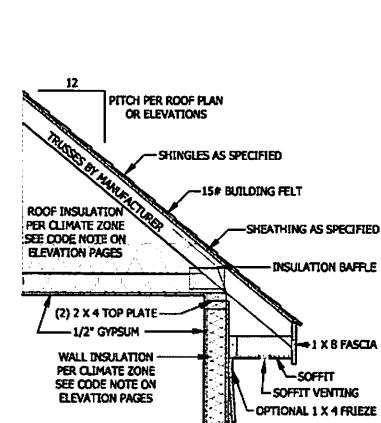
**PORCH HEADER WITH TAPERED COLUMN**  
SCALE 3/4" = 1'-0"

**CARBON MONOXIDE ALARMS**

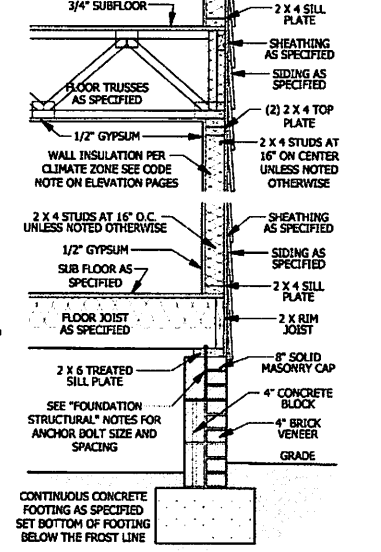
**SECTION R315**  
R315.1 Carbon monoxide alarms. In new construction, dwelling units shall be provided with an approved carbon monoxide alarm installed outside of each separate sleeping area in the immediate vicinity of the bedroom(s) as directed by the alarm manufacturer.  
R315.2 Where required in existing dwellings. In existing dwellings, where minor alterations, repairs, fuel-fired appliance replacements, or additions requiring a permit occurs, or where one or more sleeping rooms are added or created, carbon monoxide alarms shall be provided in accordance with Section 315.1.  
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**

**R311.1**  
R311.2.2 Headroom. The minimum headroom in all parts of the stairway 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 stairway.  
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 Profiles. The radius of curvature of the nosing shall be no greater 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 solid risers.  
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).  
Exceptions:  
1. The use of a volute, turnout or starting easing shall be allowed over the lowest tread.  
2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to handrail, 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. Handrails 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 1 1/2 inch (38 mm) between the wall and the handrails.  
Exceptions:  
1. Handrails shall be permitted to be interrupted by a newel post.  
2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.  
3. Two or more separate rails shall be considered continuous if 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.



**TYPICAL WALL DETAIL**  
SCALE 3/4" = 1'-0"



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

PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION BEGINS. HAYNES HOME PLANS, INC. ASSUMES NO LIABILITY FOR CONTRACTORS' PRACTICES OR PROCEDURES. CODES AND CONDITIONS MAY VARY WITH LOCATION. A LOCAL DESIGNER, ARCHITECT OR ENGINEER SHALL BE CONSULTED BEFORE CONSTRUCTION. THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AS SUCH SHALL REMAIN PROPERTY OF THE DESIGNER.

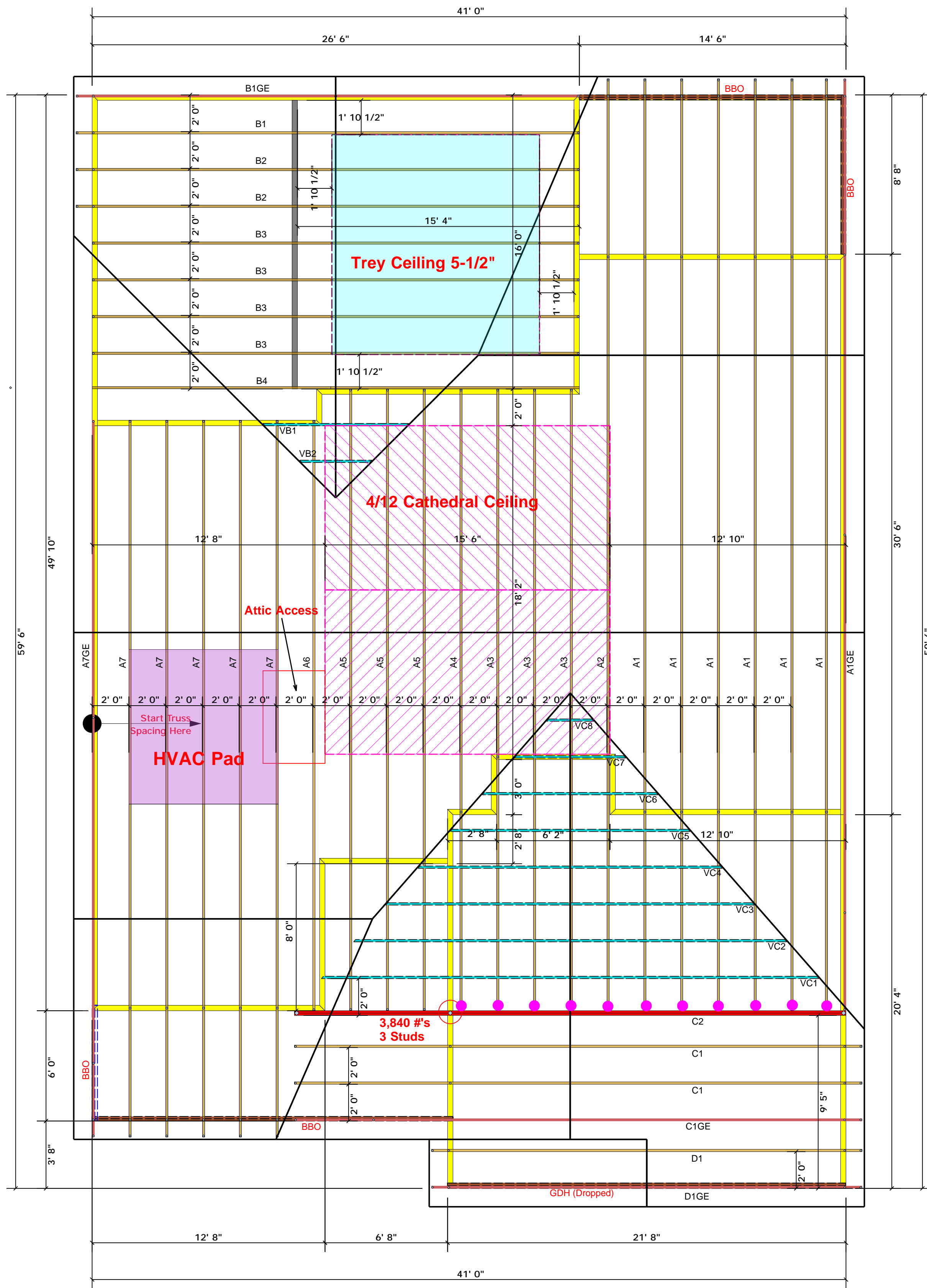
**TYPICAL DETAILS**  
**Lindsay 1553**

**HAYNES WEAVER HOMES**  
1100 5100 2100 • 010 6001-1000

**HAYNES WEAVER HOME PLANNING**

**SQUARE FOOTAGE**

HEATED FLOOR AREA	UNHEATED ATTIC	SCREENED PORCH	FRONT PORCH	REAR PORCH
1133	574	113	113	113



### Truss Placement Plan SCALE: 1/4" = 1'-0"

● = Hanger / HUS 26

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.  
○ -- Denotes Reaction Greater than 3,000 lbs. Reaction / # of Studs

Products				
PlotID	Length	Product	Plies	Net Qty
GDH (Dropped)	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2

**LOAD CHART FOR JACK STUDS**

NO. OF JACK STUDS	SPACING (ft)	MAX. LOAD (lbs)
1	25.00	3400
2	12.50	6800
3	8.33	10200
4	6.25	13600
5	5.00	17000
6	4.17	20400
7	3.57	23800
8	3.13	27200
9	2.78	30600

BUILDER	Weaver Development Co. Inc.	CITY / CO.	Harnett Co. / Harnett
JOB NAME	Lot 25 Mitchell Manor	ADDRESS	Lot 25 Mitchell Manor
PLAN	Lindsay 1553 B w/ F.Porch (200505B)	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	//
QUOTE #	Quote #	DRAWN BY	Christine Shivy
JOB #	J0520-2111	SALES REP.	Lenny Norris

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 BCSH-B1 and BCSH-B3 provided with the truss delivery package or online @ sbcindustry.com

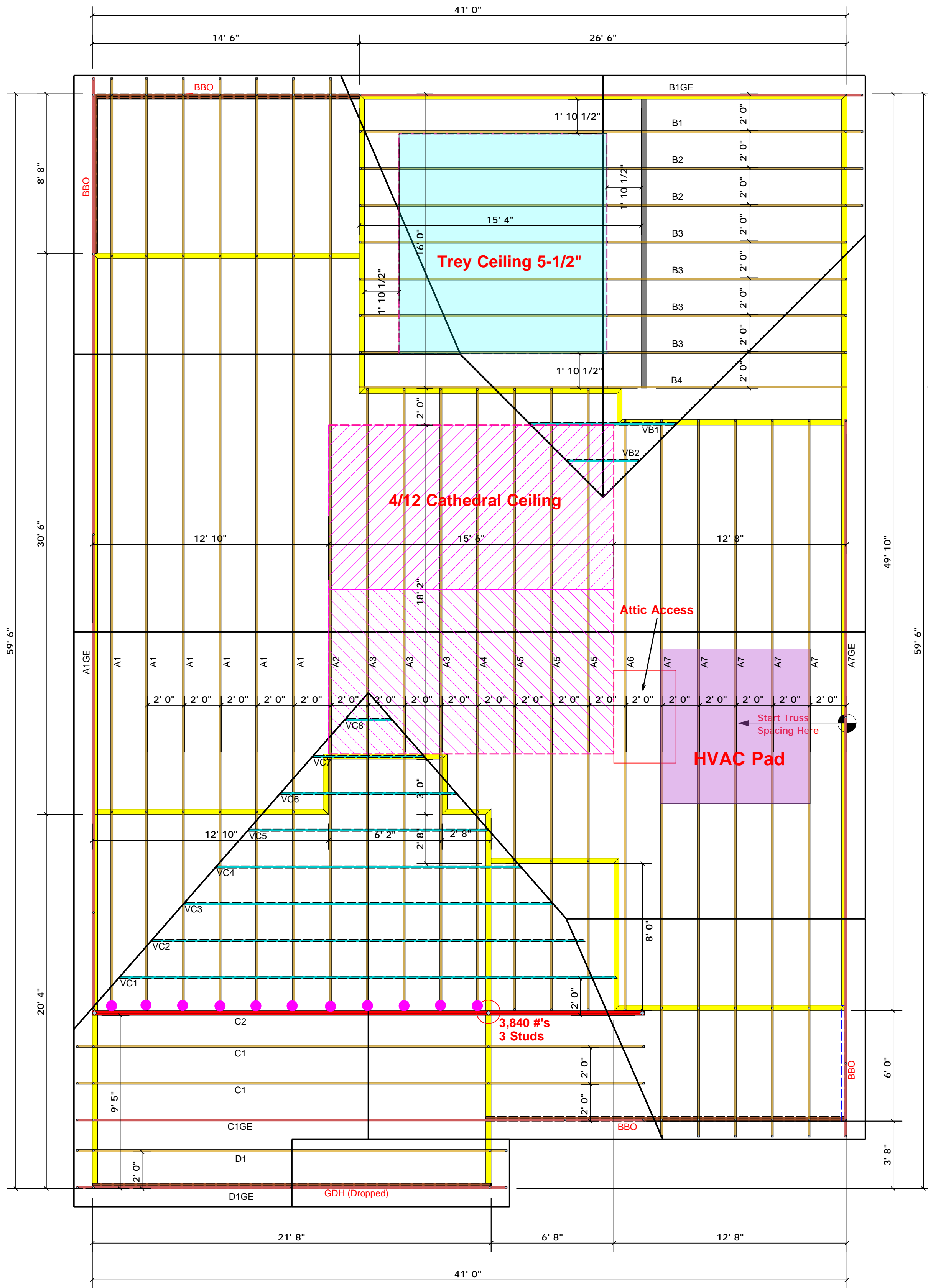
Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Lenny Norris  
Lenny Norris

**ROOF & FLOOR TRUSSES & BEAMS**

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





**Truss Placement Plan**  
**SCALE: 1/4" = 1'-0"**

● = Hanger / HUS 26

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

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

Products				
PlotID	Length	Product	Plies	Net Qty
GDH (Dropped)	22' 0"	1-3/4"x 14" LVL Kerto-S	2	2

LOAD CHART FOR JACK STUDS	
MEMBER SIZE (D x T)	MAXIMUM SPACING (INCHES)
1700	1
1700	2
1700	3
1700	4
1700	5
1700	6
1700	7
1700	8
1700	9

BUILDER	Weaver Development Co. Inc.	CITY / CO.	Harnett Co. / Harnett
JOB NAME	Lot 25 Mitchell Manor	ADDRESS	Lot 25 Mitchell Manor
PLAN	Lindsay 1553 B w/ F.Porch (200505B)	MODEL	Roof
SEAL DATE	Seal Date	DATE REV.	/ /
QUOTE #	Quote #	DRAWN BY	Christine Shivy
JOB #	J0520-2111	SALES REP.	Lenny Norris

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 @ sbciindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature: Lenny Norris  
**Lenny Norris**

**ROOF & FLOOR TRUSSES & BEAMS**

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