

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

MEAN ROOF HEIGHT 25'-8	HEIGHT TO RIDGE 30'-0"			
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A	
FENESTRATION U-FACTOR	0.35	0.35	0.35	
SKYLIGHT U-FACTOR	0.55	0.55	0.55	
GLAZED FENESTRATION SHGC	0.30	0.30	0.30	
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci	
WALL R-VALUE	15	15	19	
FLOOR R-VALUE	19	19	30	
* BASEMENT WALL R-VALUE	5/13	10/15	10/15	
** SLAB R-VALUE	Ö	10	10	
* 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	ID SPEED	of 120 mf	PH, 3 SECC	ond gust	(93 FAST	EST MILE)	EXPOSUR	₹E "B"		
COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS										
MEAN ROOF	UP T	O 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 WIN	ID SPEED	OF 130 MF	PH, 3 SECO	OND GUST	(101 FAS	TEST MILE	E) EXPOSU	IRE "B"		
COMPONENT	" & CLA	DDING	DESIG	NED FC)r the	FOLLO	WING I	LOADS		
MEAN ROOF	UP T	O 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		
	10.0	24.0	10.1	25.2	10.0	26.2	20.4	200		

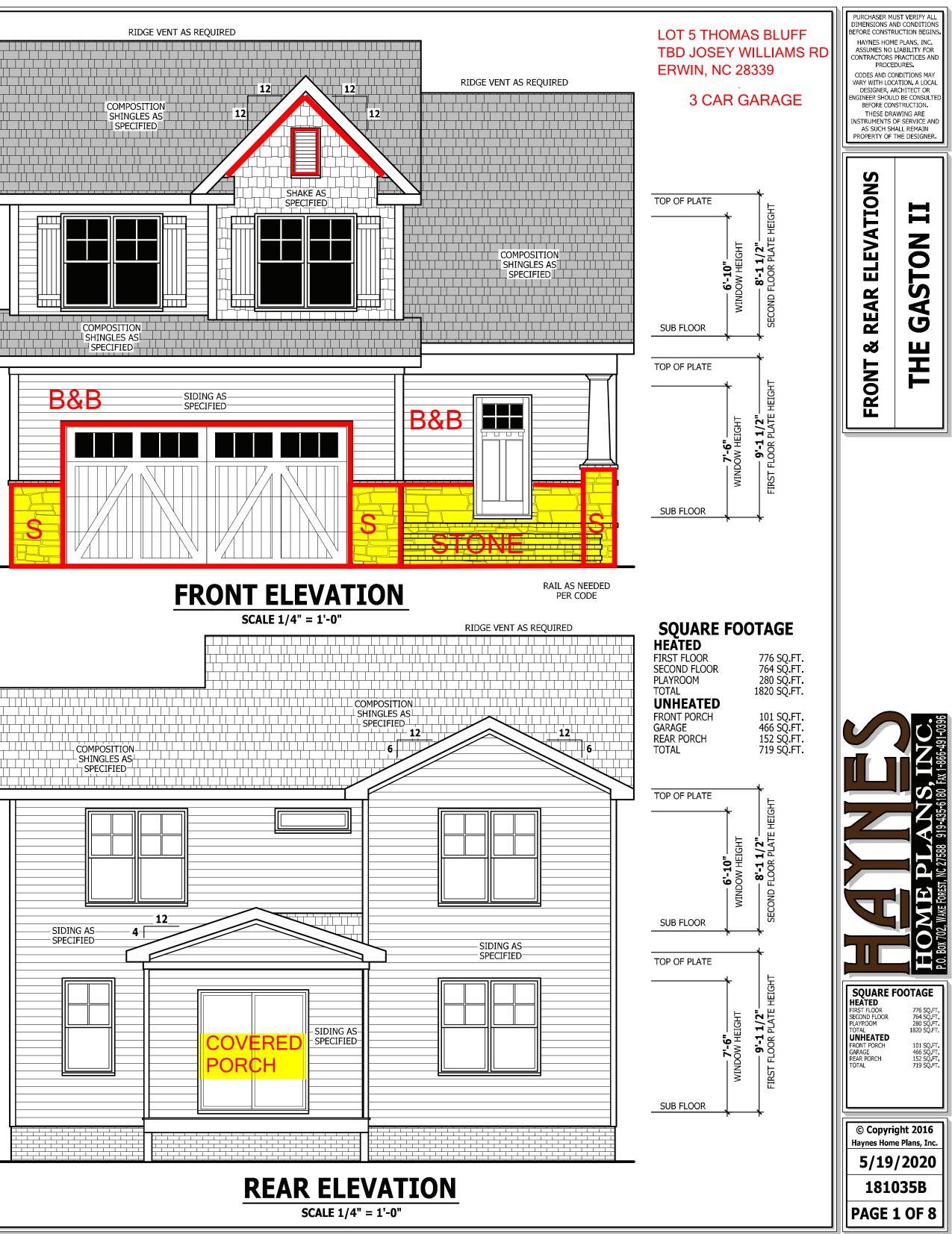
HVAC:TBD PLUMBING: DOUBLE J **ELECTRIC: PIONEER**

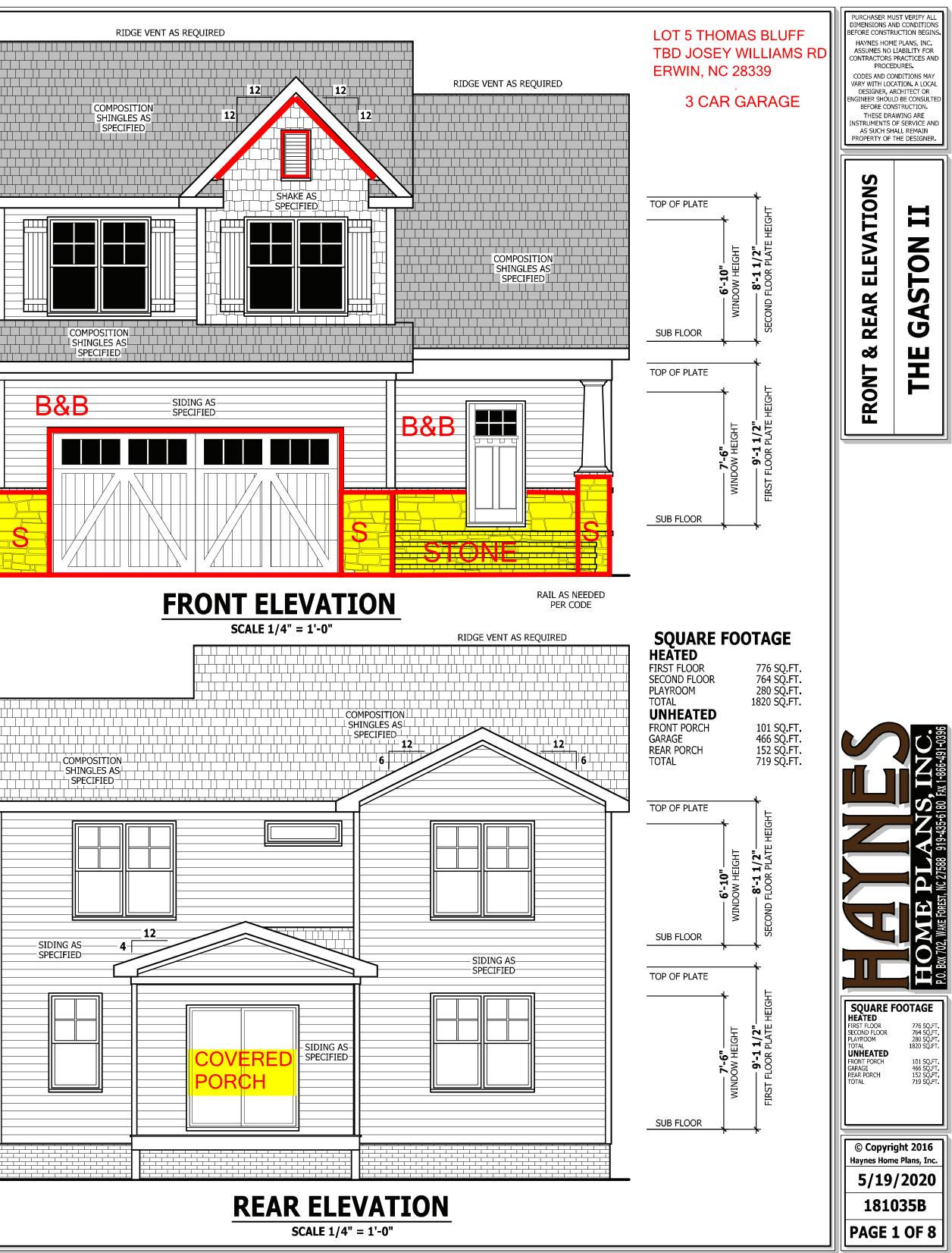
AIR LEAKAGE

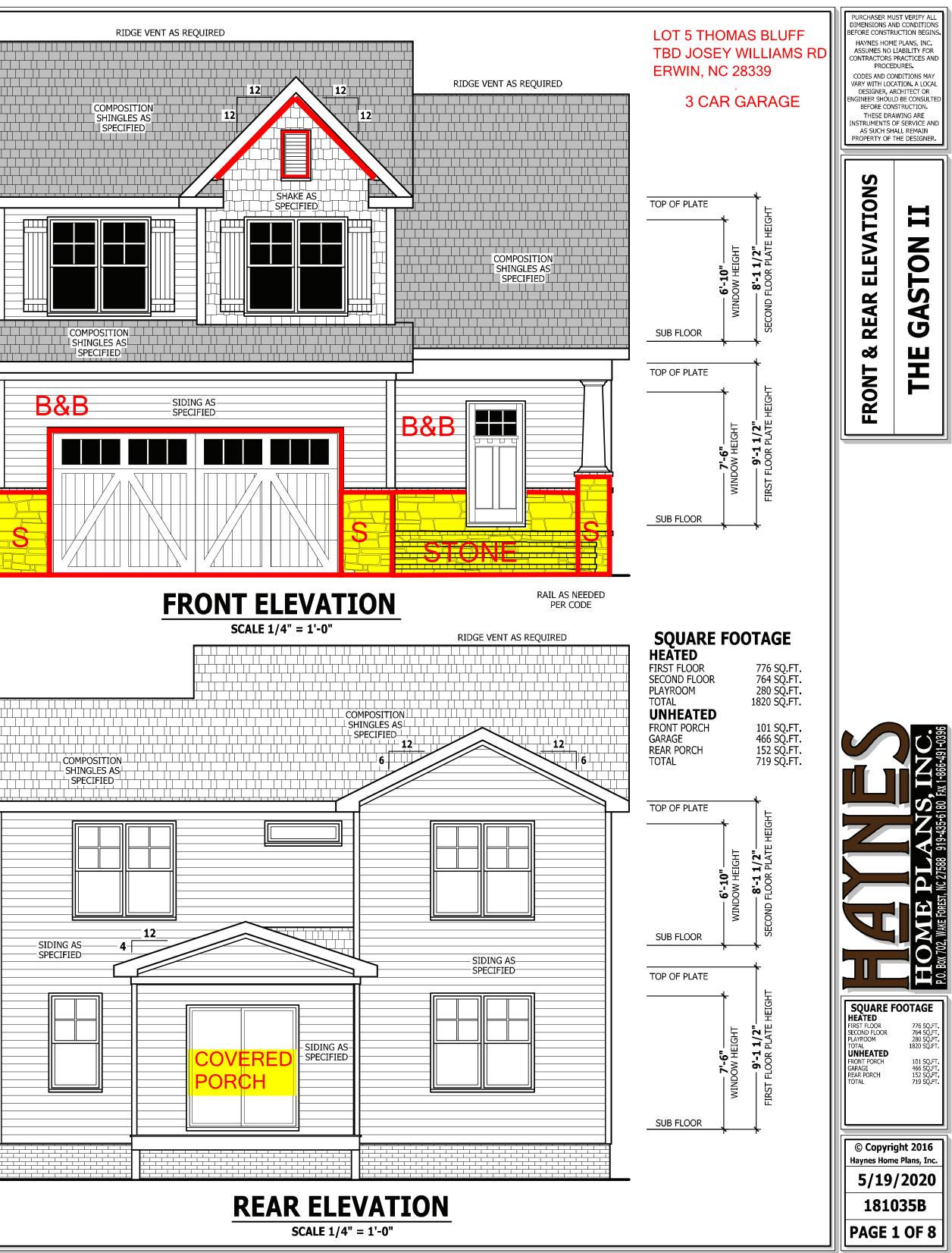
Section N1102.4

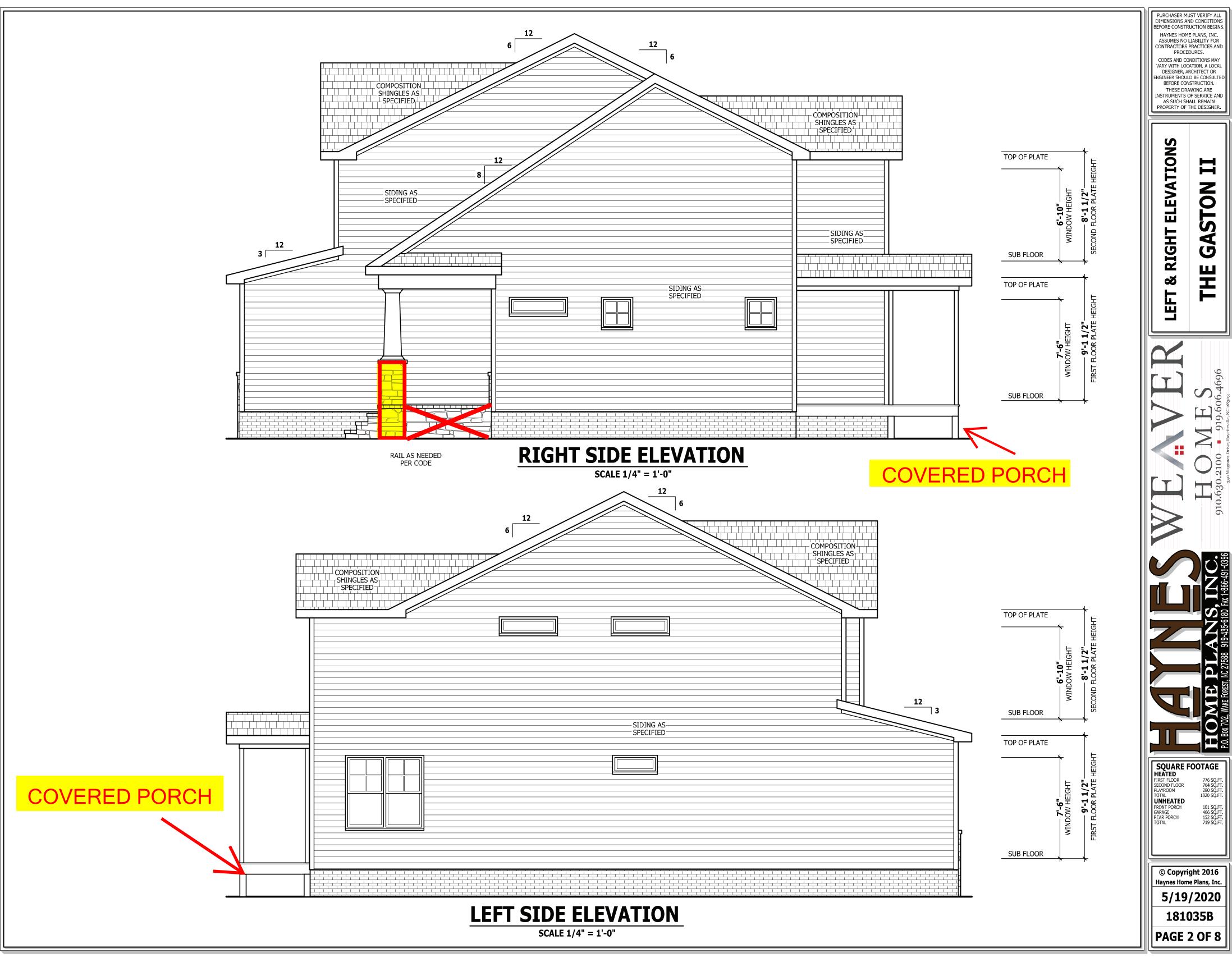
N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, 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

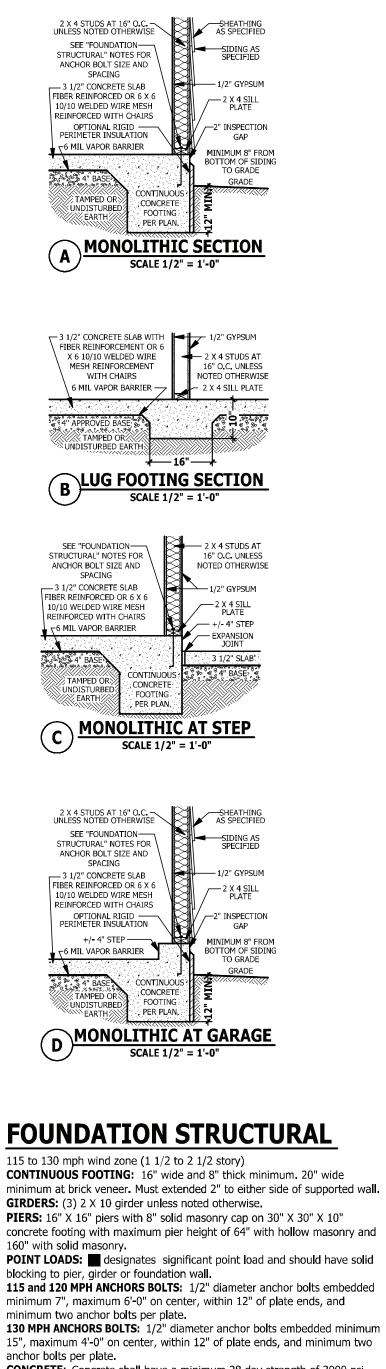
2. Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.





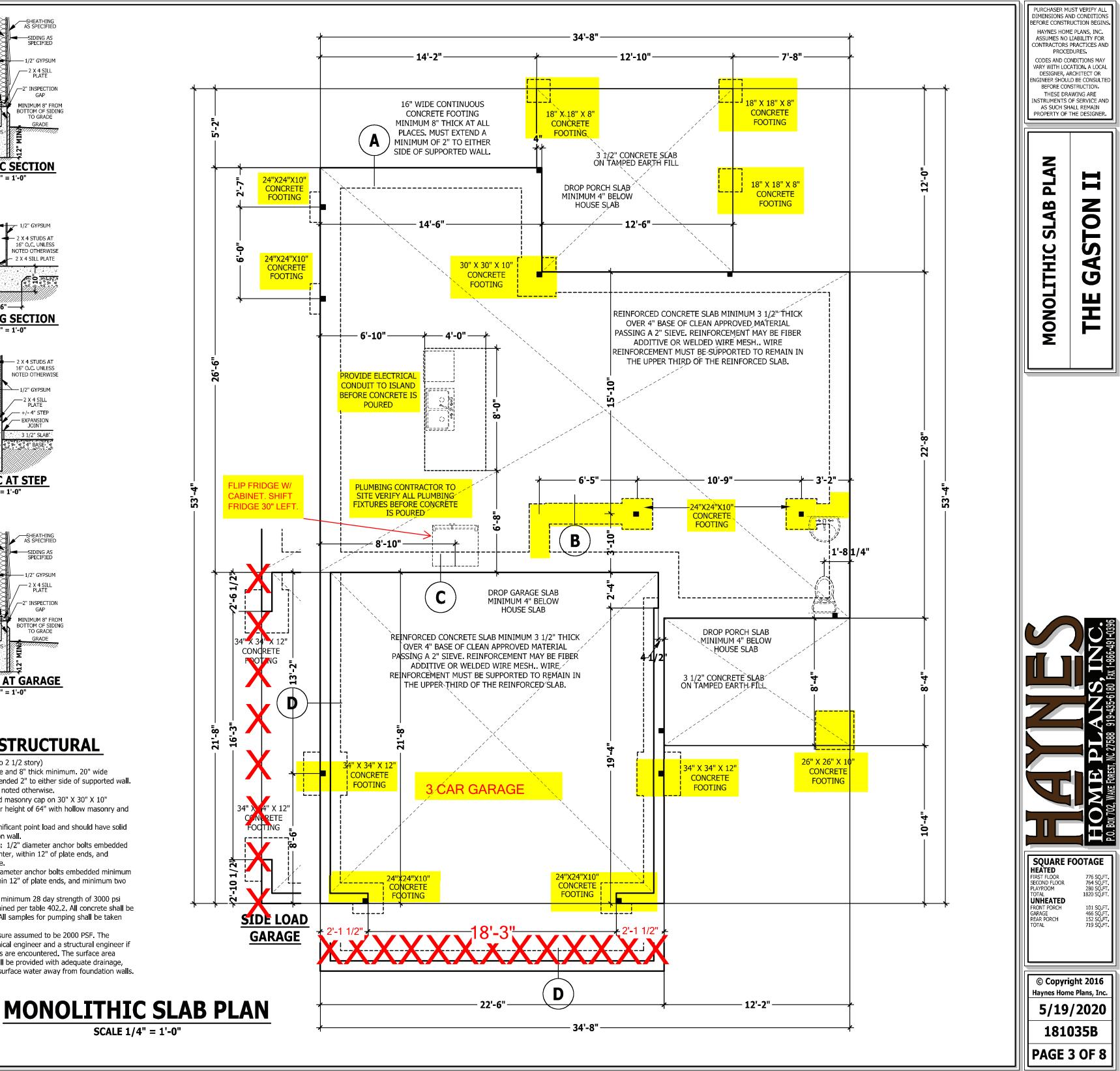






CONCRETE: Concrete shall have a minimum 28 day strength of 3000 psi and a maximum 5" slump. Air entrained per table 402.2. All concrete shall be in accordance with ACI standards. All samples for pumping shall be taken from the exit end of the pump.

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.



SCALE 1/4" = 1'-0"

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 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 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.

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.

EXTERIOR WINDOWS AND DOORS

SECTION R612

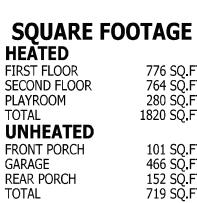
R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be flashed in accordance with Section R703.8. Written installation instructions shall be provided by the fenestration manufacturer for each window or door.

R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. Exceptions:

1. Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.

2. Openings that are provided with window fall prevention devices that comply with Section R612.3. 3. Openings that are provided with fall prevention devices that comply with ASTM F 2090.

4. Windows that are provided with opening limiting devices that comply with Section R612.4. R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.



776 SQ.FT.

764 SQ.FT.

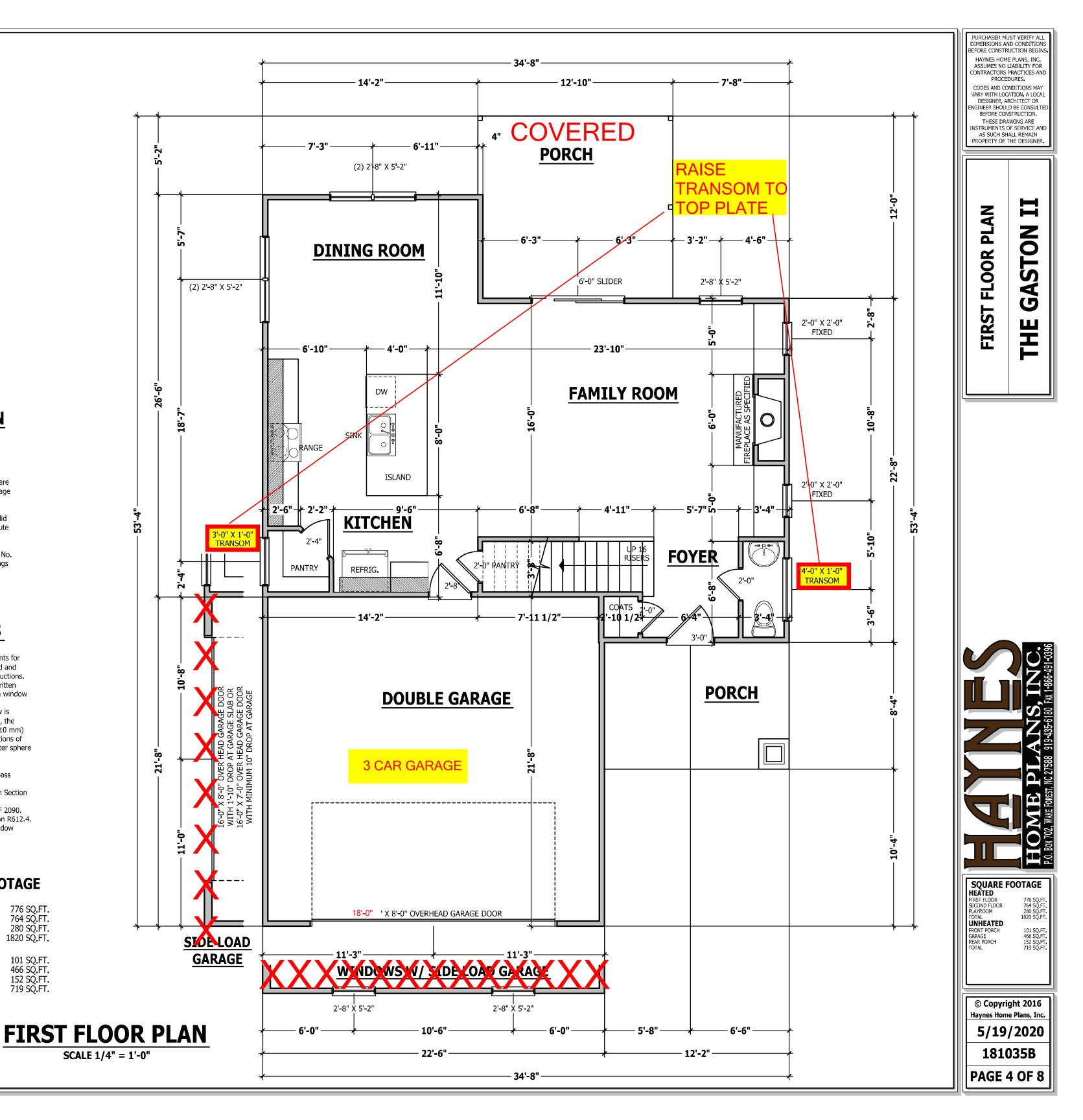
280 SQ.FT.

1820 SQ FT.

101 SQ FT 466 SQ FT

152 SQ.FT.

719 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 document in no way shall be construed to supersede the code. JOB SITE PRACTICES AND SAFETY: Haynes 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. DESTGN LOADS

DESIGN LUADS	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-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. **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 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 $8d(2 1/2" \log x 0.113" diameter)$. 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

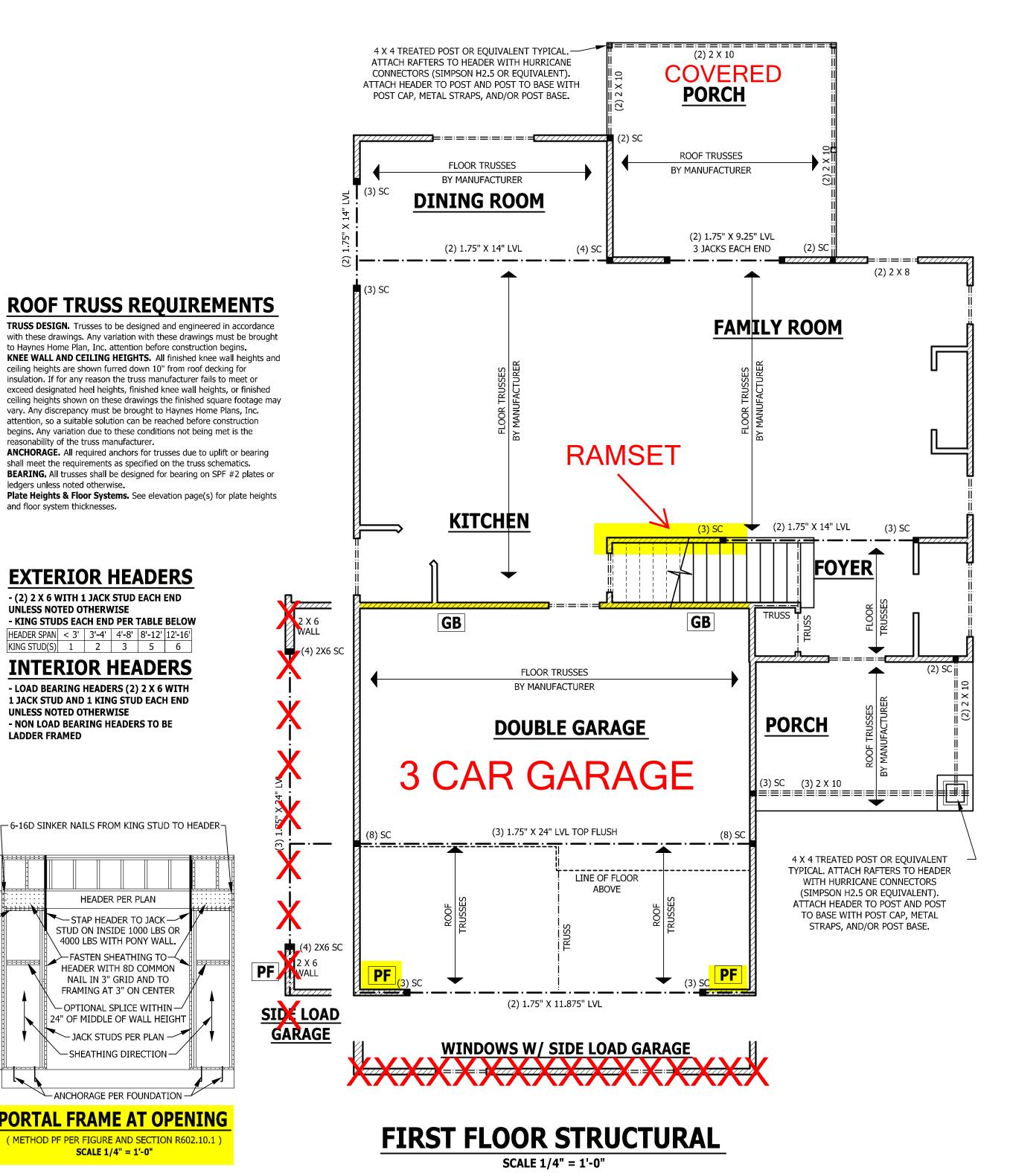
GB: Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

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.



PONY WALL HEIGHT TO VARY HEADER PР то тор **12'-0**". і неіднт то тор (____ **10'-0**'' ____ HEADER WITH 8D COMMON Ö© ROWS TWO 24" OF MIDDLE OF WALL HEIGHT ٩UM MAXI ANCHORAGE PER FOUNDATION -PORTAL FRAME AT OPENING PF (METHOD PF PER FIGURE AND SECTION R602.10.1





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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTIO
USE	(PSF)	(PSF)	(LL)
Attics without storage	10	10	L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
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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		

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-joist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 $1/2" \times 3 1/2" \times 1/4"$ 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 $1/2" \times 3 1/2" \times 1/4"$ 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.

CONCRETE AND SOILS: See foundation notes.

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 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 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.

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

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.

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.

EXTERIOR WINDOWS AND DOORS

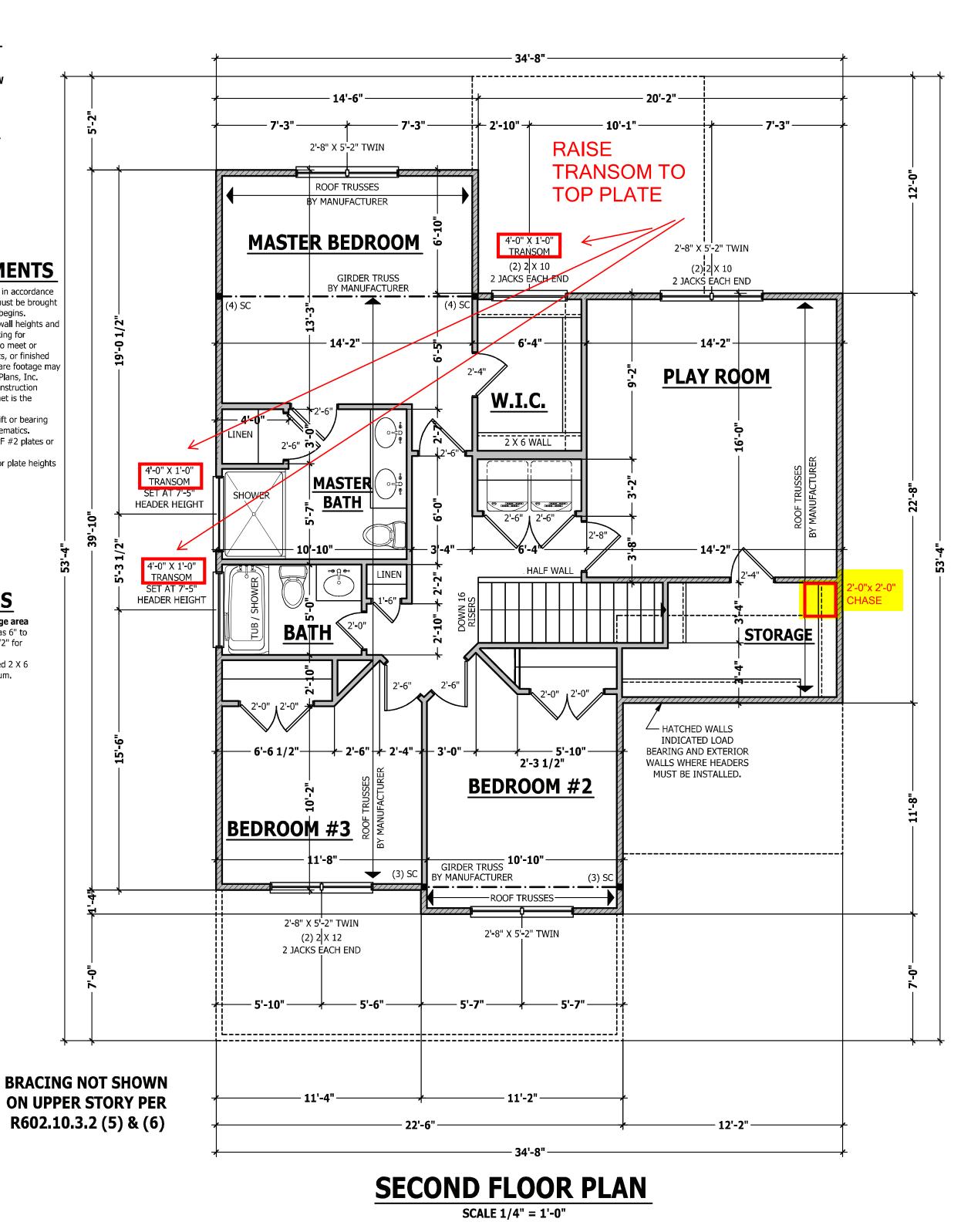
SECTION R612

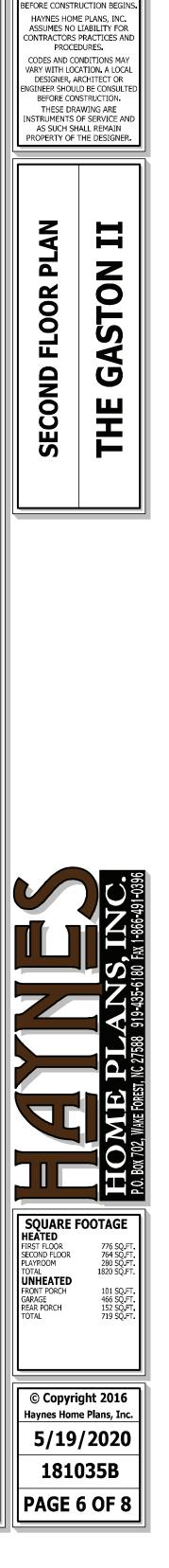
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R612.2 Window sills. In *dwelling* units, where the opening of an operable window is located more than 72 inches (1829 mm) above the finished *grade* or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches (610 mm) above the finished floor of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4 inch (102 mm) diameter sphere where such openings are located within 24 inches (610 mm) of the finished floor. **Exceptions:**

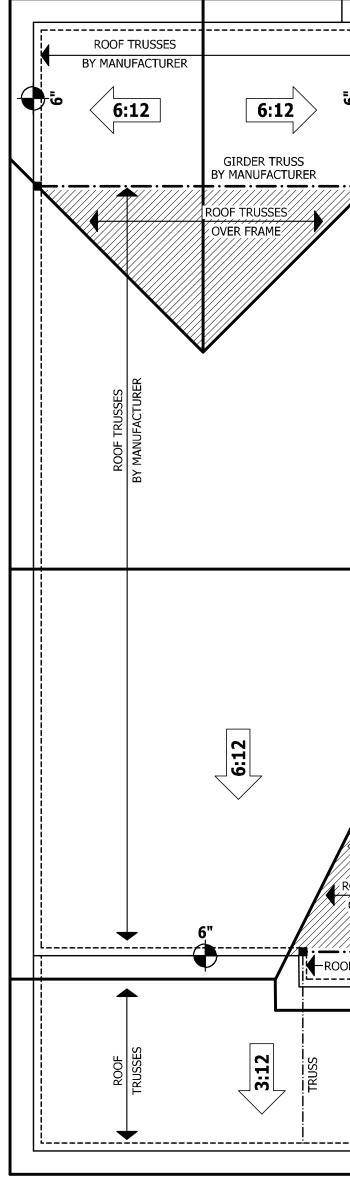
 Windows whose openings will not allow a 4-inch diameter (102 mm) sphere to pass through the opening when the opening is in its largest opened position.
 Openings that are provided with window fall prevention devices that comply with Section R612.3.

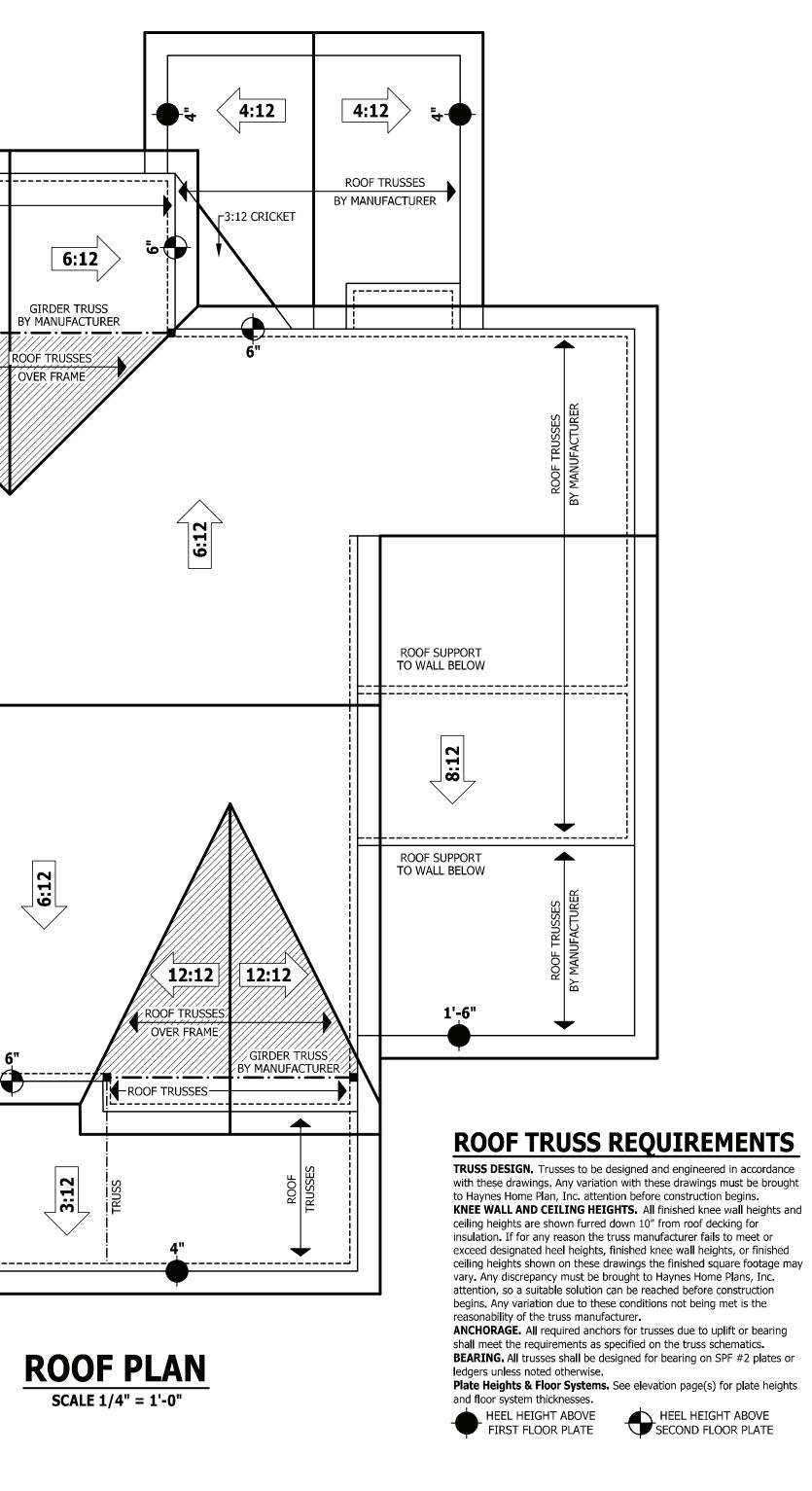
Openings that are provided with fall prevention devices that comply with ASTM F 2090.
 Windows that are provided with opening limiting devices that comply with Section R612.4.
 R612.3 Window fall prevention devices. Window fall prevention devices and window guards, where provided, shall comply with the requirements of ASTM F 2090.





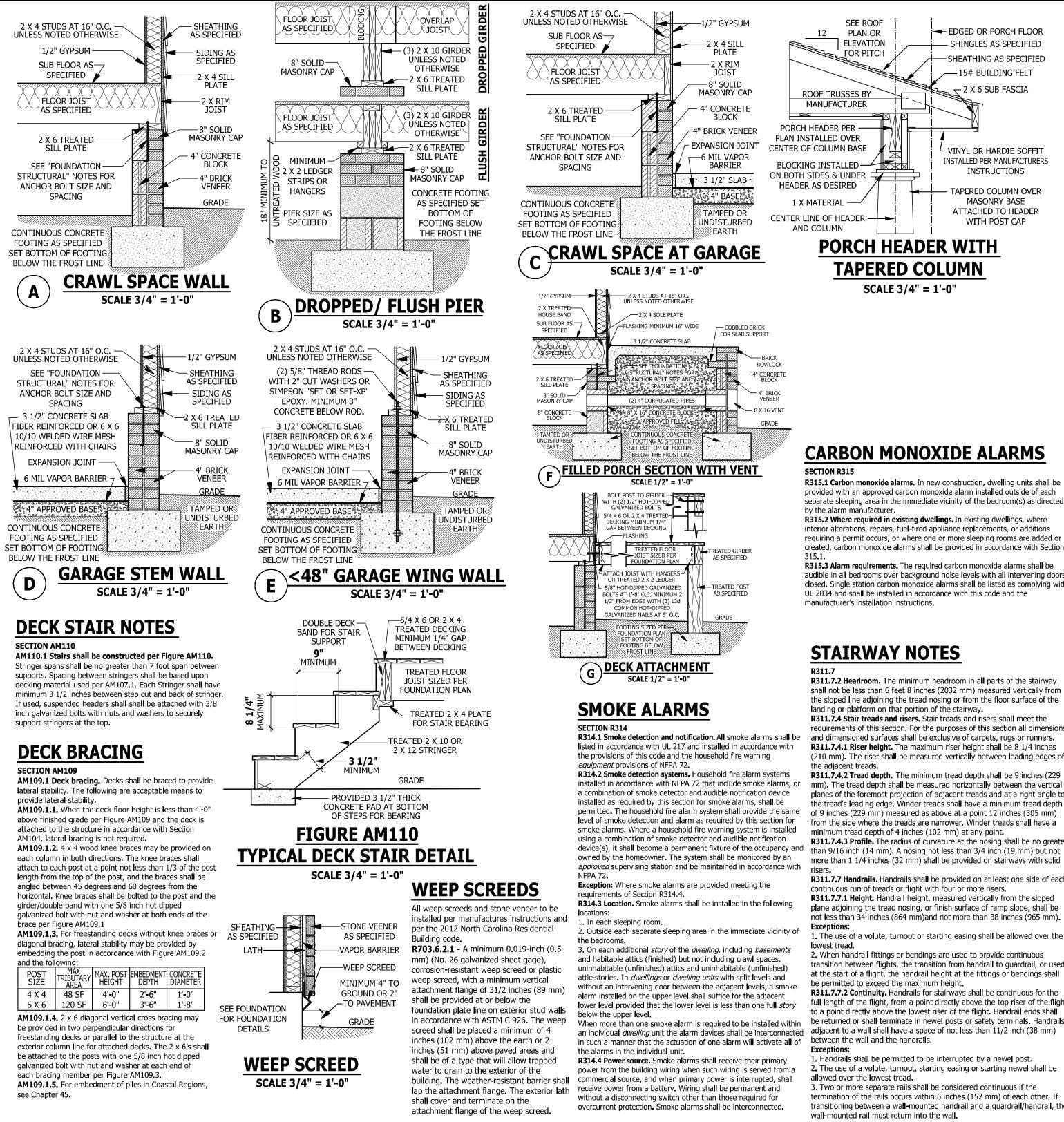
PURCHASER MUST VERIFY ALL DIMENSIONS AND CONDITIONS Z:\Builder\Weaver Development Company, Inc\200128B Gaston II\200128B Gaston II Left.aed







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



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

interior 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

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

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

R311.7.4.2 Tread depth. The minimum tread depth shall be 9 inches (229 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

R311.7.4.3 Profile. The radius of curvature at 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

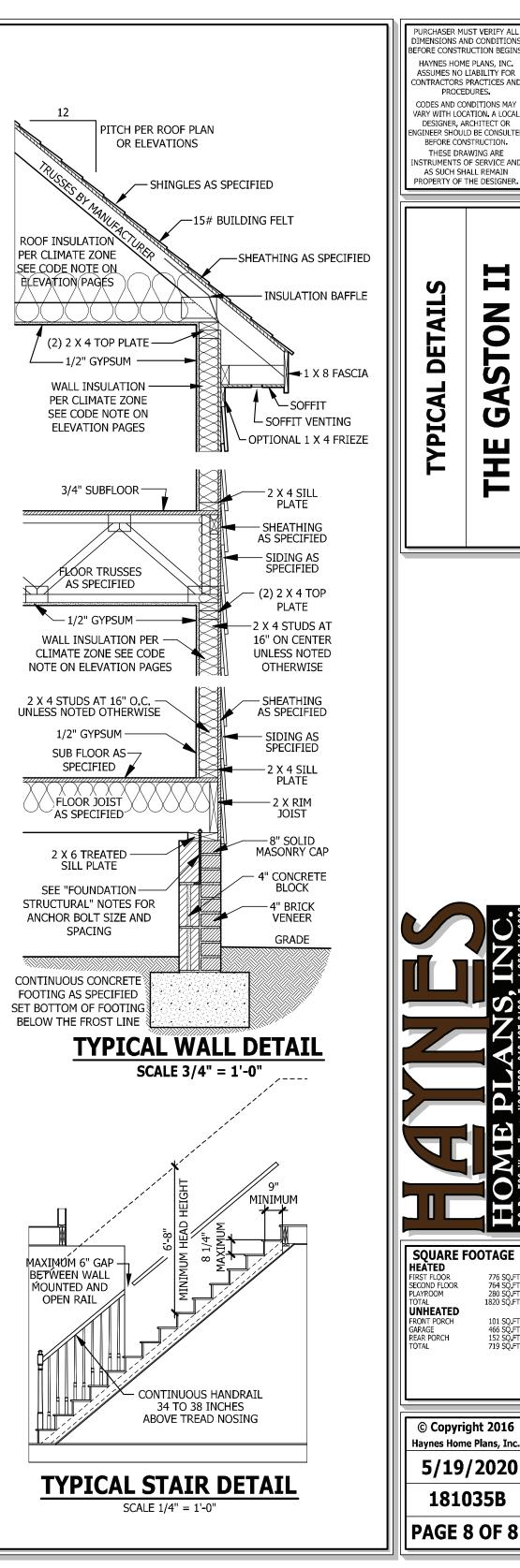
R311.7.7 Handrails. Handrails shall be provided on at least one side of each **R311.7.7.1 Height.** Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

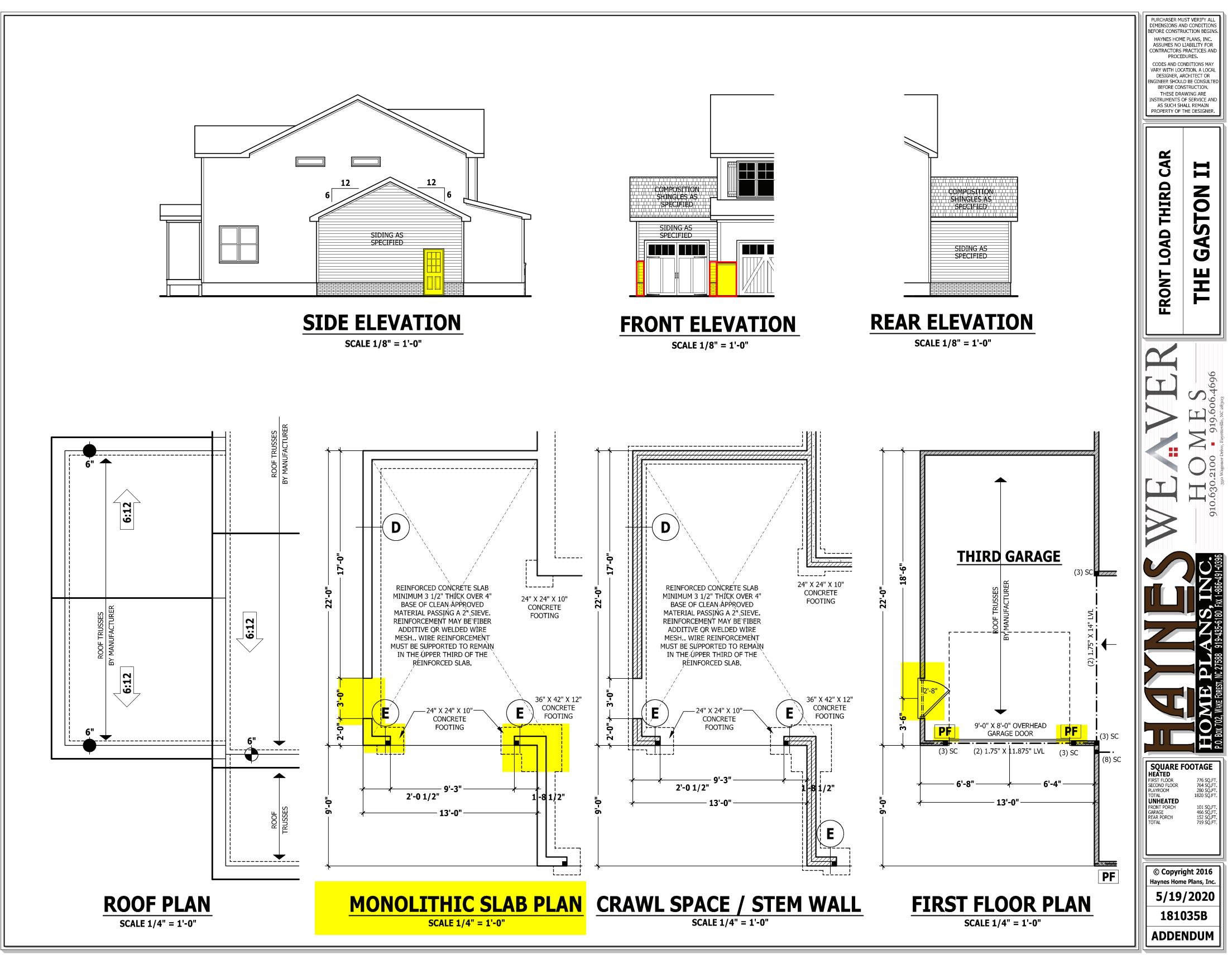
1. The use of a volute, turnout or starting easing shall be allowed over the

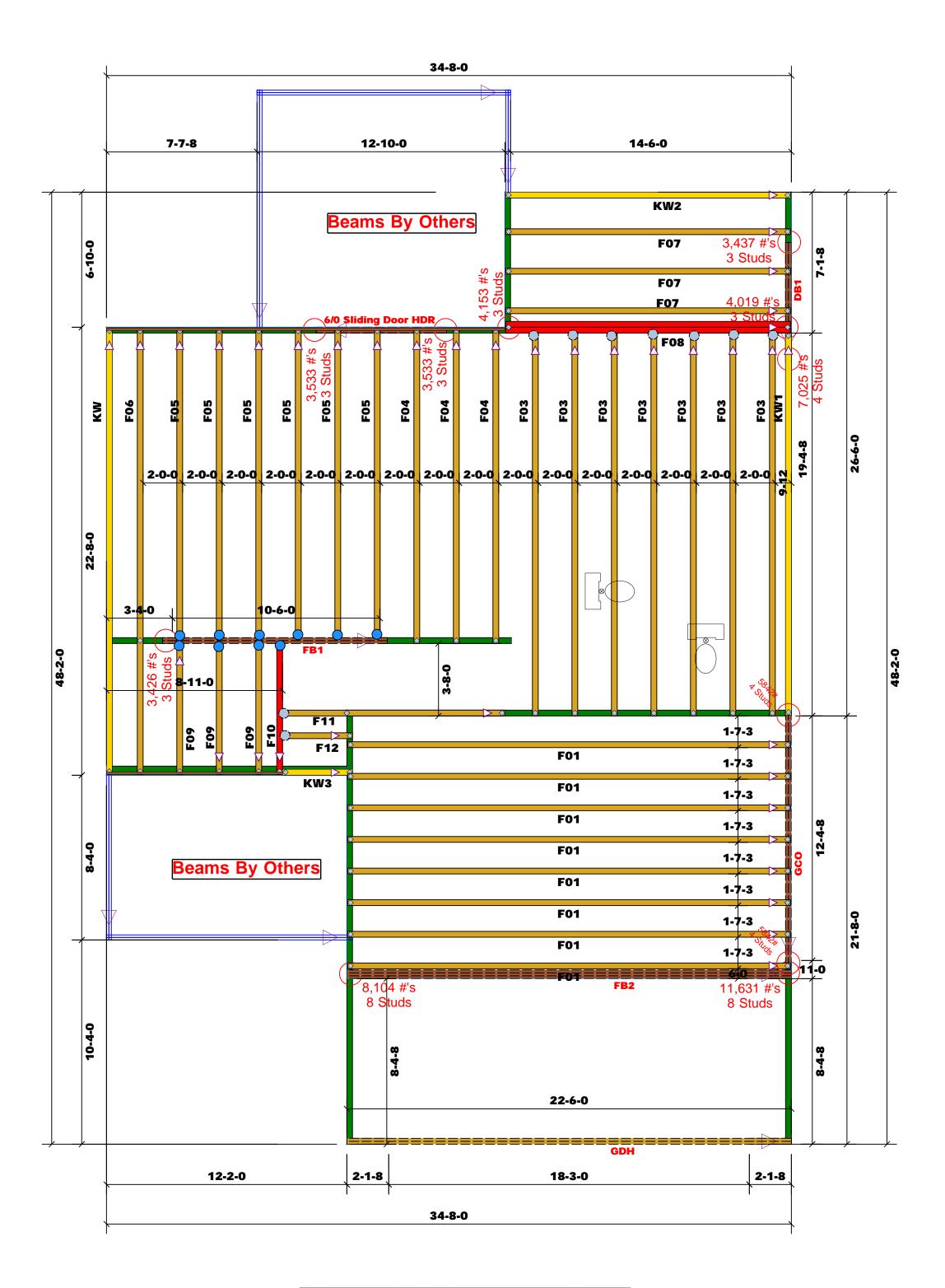
transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

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

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







\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

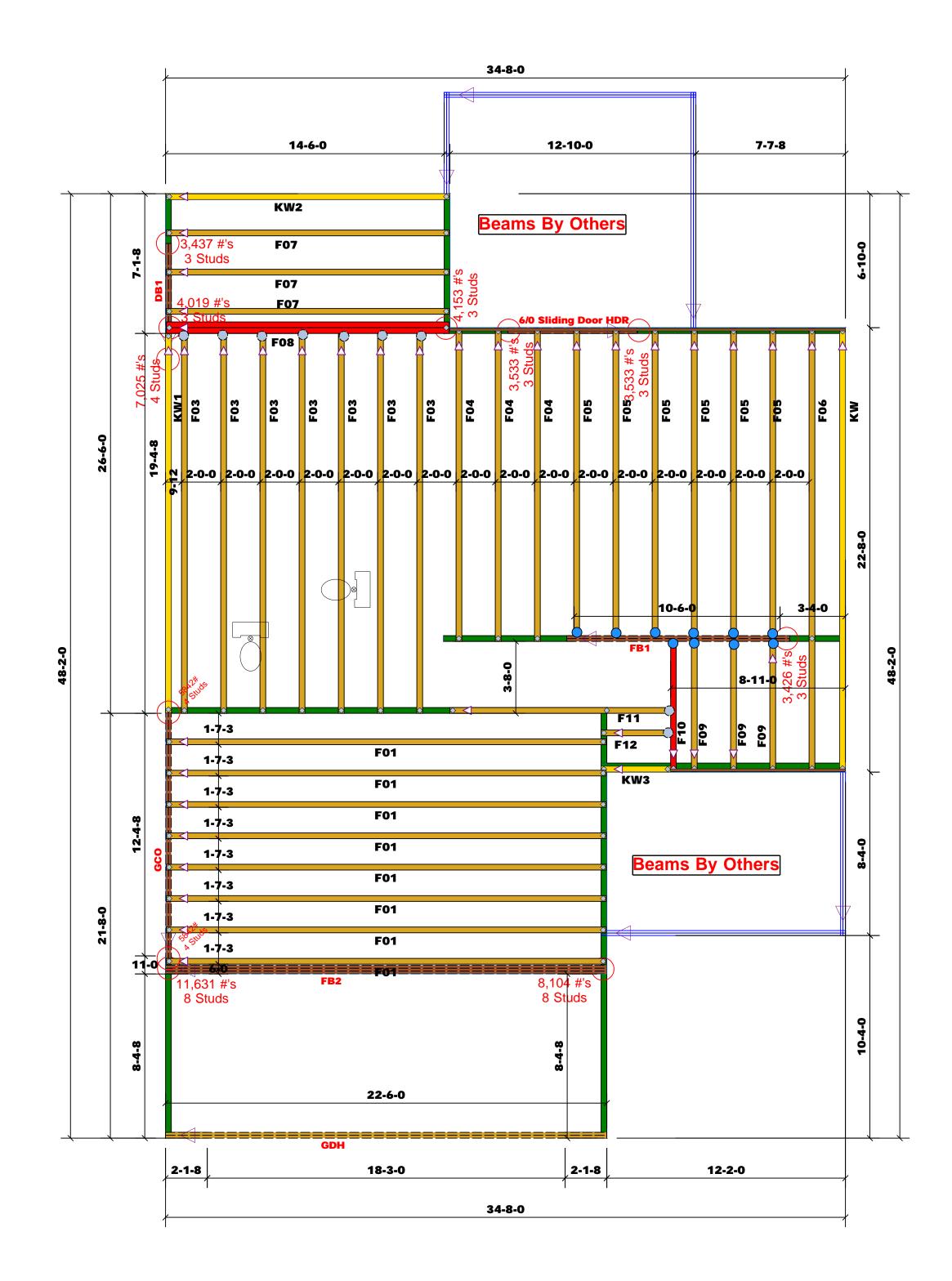
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

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

Products									
PlotID	Length	Product	Plies	Net Qty	Fab Type				
6/0 Sliding Door HDR	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF				
GDH	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF				
GCO	14' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB1	12' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF				
DB1	7' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB2	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF				

]	<u>Fruss</u> <u>Placemen</u> SCALE: 1/4"		(Reference Engineered Truss Drawing) Do NOT Erect Truss Backwards			
	LOAD CHART FOR JACK STUDS (04/6 CN1 40/6 85025(1) 1-0)) MANG CN 140/6 85025(1) 1-0)		BUIL BUIL	BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	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			
	FEACESSERVER (P. 10) 10, 100 10, 100 1	EADERVEIRDER Z P C	retroer ∄t z Žt	FROER Pet z Éw	ea : z 200		Lot 5 Thomas Bluff	ADDRESS	Josey Williams Road	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	соттесн
1700		# g R ž g E PL/ 2550 1 3400 2 5100 2 6600 2 7650 3 10200 3	NU NU NU NU NU NU NU	PLAN	Gaston II (181035B) 3 Car	MODEL	Floor	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	ROOF & FLOOR		
3400 5100 6800	2 3		6600 2 SEAL DATE	N/A	DATE REV.	11	(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	Reilly Road Industrial Park			
8500 10200 11900	5 1 6 1	10200 4 12750 5 15300 6	17000 5	QUOTE #	Quote #	DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787		
13600 15300	8			JOB #	J1121-6667	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444		

 \triangle = Indicates Left End of Truss (Reference Engineered Truss Drawing)



\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

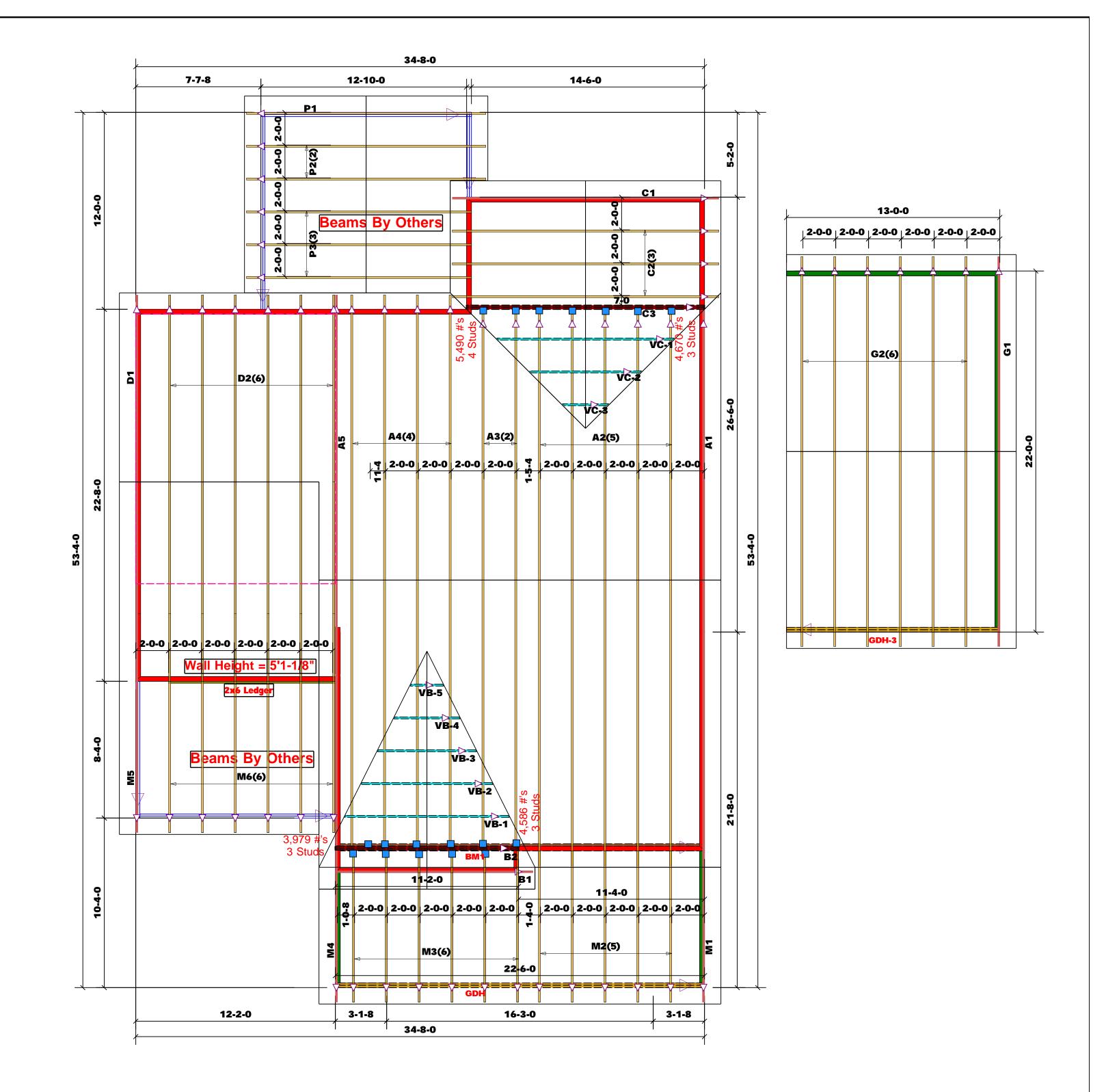
All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

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

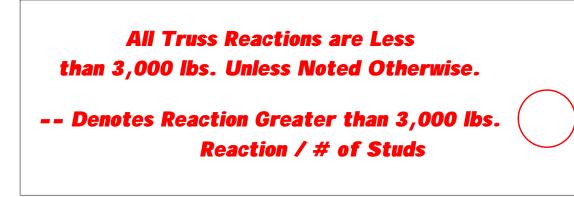
Products									
PlotID	Length	Product	Plies	Net Qty	Fab Type				
6/0 Sliding Door HDR	7-0-0	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF				
GDH	23-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
GCO	14-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB1	12-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
DB1	7-0-0	1-3/4"x 14" LVL Kerto-S	2	2	FF				
FB2	23-0-0	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF				

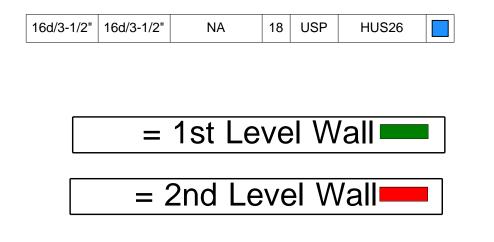
 \triangle = Indicates Left End of Truss

	Truss Placement Plan (Reference SCALE: 1/4"=1' Do NOT										
(04)	LOAD CHART FOR JACK STUDS (04565 CN14045 850250) 400		BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	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				
	CLANCE on State structs alignmetric (C.C.C. on State structs) Non-State structs Non-State structs </th <th rowspan="2">noen ž⊈ z Ž⊕</th> <th>CROER Ř⊈ z Žŵ</th> <th>JOB NAME</th> <th>Lot 5 Thomas Bluff</th> <th>ADDRESS</th> <th>Josey Williams Road</th> <th>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</th> <th>соттесн</th>	noen ž⊈ z Ž⊕	CROER Ř⊈ z Žŵ	JOB NAME	Lot 5 Thomas Bluff	ADDRESS	Josey Williams Road	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	соттесн		
1700 1			PLAN	Gaston II (181035B) 3 Car	MODEL	Floor	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	ROOF & FLOOR			
3400 2 5100 3	2550 1 5100 2 7650 3 10200 4	6600 2 10200 3 13600 4	SEAL DATE	N/A	DATE REV.	11	(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	TRUSSES & BEAMS Reilly Road Industrial Park			
6800 4 8500 5 10200 6	12750 5 15300 6	17000 5	QUOTE #	Quote #	DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787			
11900 7 13600 8 15300 9			JOB #	J1121-6667	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444			



			LVL		
Fab Type	Net Qty	Plies	Product	Length	PlotID
FF	2	2	1-3/4"x 11-7/8" LVL Kerto-S	13-0-0	GDH-3

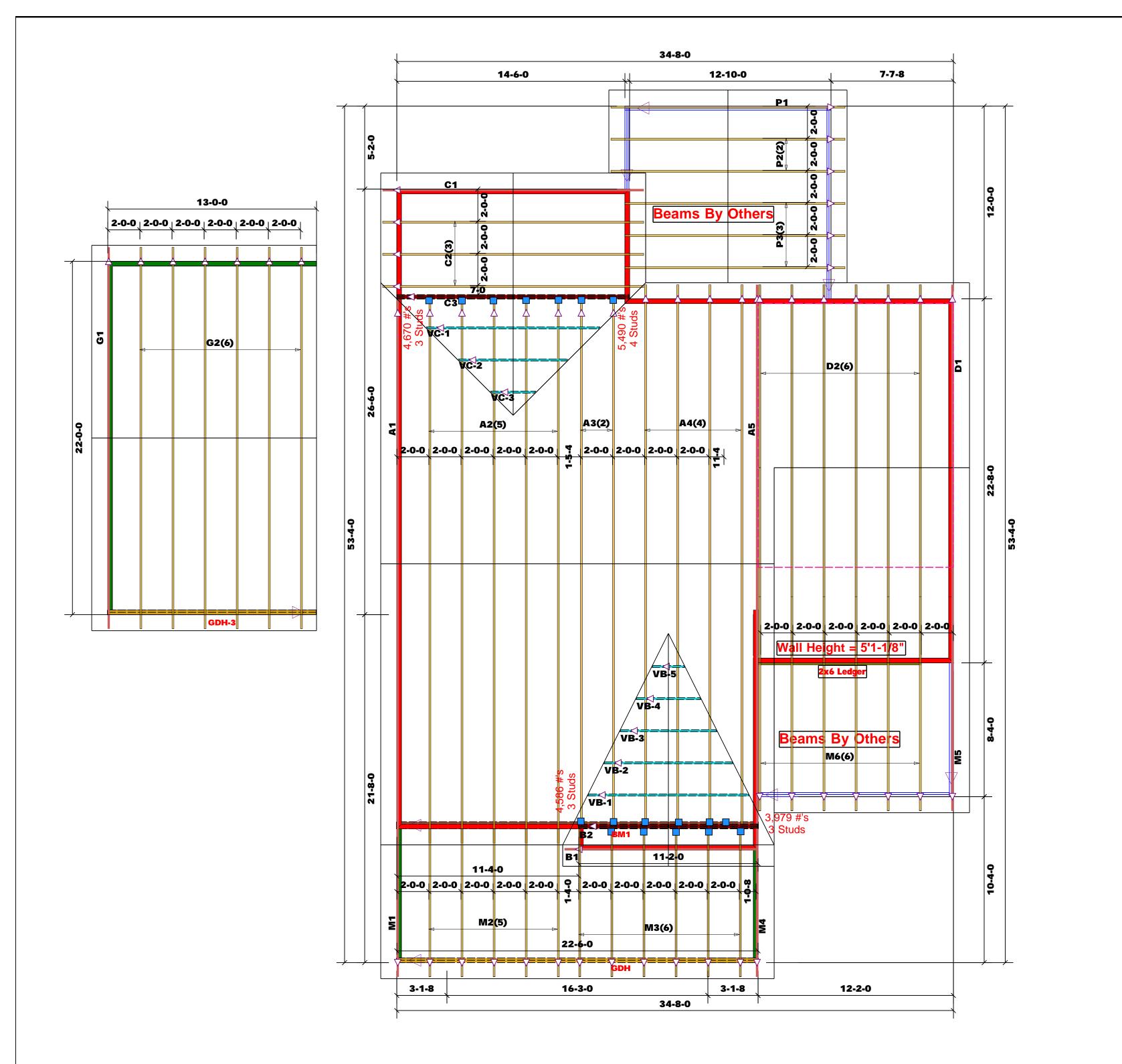




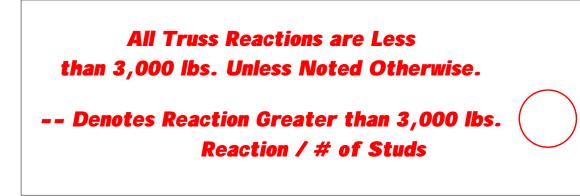
Indicates Left End of Truss
 (Reference Engineered Truss Drawing)
 Do NOT Erect Truss Backwards

	LOAD CHART FOR JACK STUDS (04956 CN1400590525(1) J (b)) MUNICIPACIENTS (CONTON CONTON CONTON CONTON		BUILDER		Weaver Development Co. Inc.	COUNTY	Harnett	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	
	z Žű	PEADEWSTROER	0 0 55 FUR 50 EUR	JOB NAME	Lot 5 Thomas Bluff	ADDRESS	Josey Williams Road	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	соттесн
	CND REACTING (05-10) BEQ D STUDS (7) RIV HEAD	And Saladi And Saladi	LIND REAC UP T REQUESTL	PLAN	Gaston II (181035B) 3 Car	MODEL	Roof	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	ROOF & FLOOR
1	1700 1 3400 2 5100 3	2550 1 5100 2 7650 3	3400 1 6600 2 10200 3	SEAL DATE	N/A	DATE REV.	11	(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	TRUSSES & BEAMS Reilly Road Industrial Park
1	6800 4 8500 5 0200 6	10200 4 12750 5 15300 6	13600 4 17000 5	QUOTE #		DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787
2	1900 7 3600 8 5300 9			JOB #	J1121-6666	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

<u>Truss</u> <u>Placement</u> <u>Plan</u> SCALE: 1/4"=1'



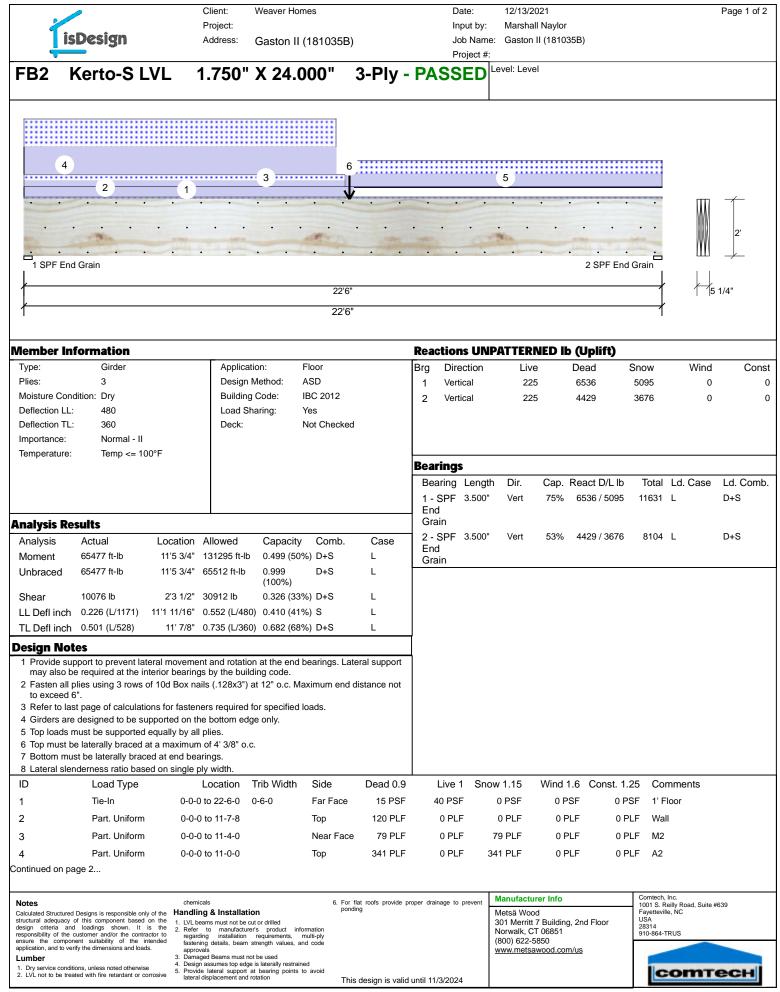
			LVL		
Fab Type	Net Qty	Plies	Product	Length	PlotID
FF	2	2	1-3/4"x 11-7/8" LVL Kerto-S	13-0-0	GDH-3



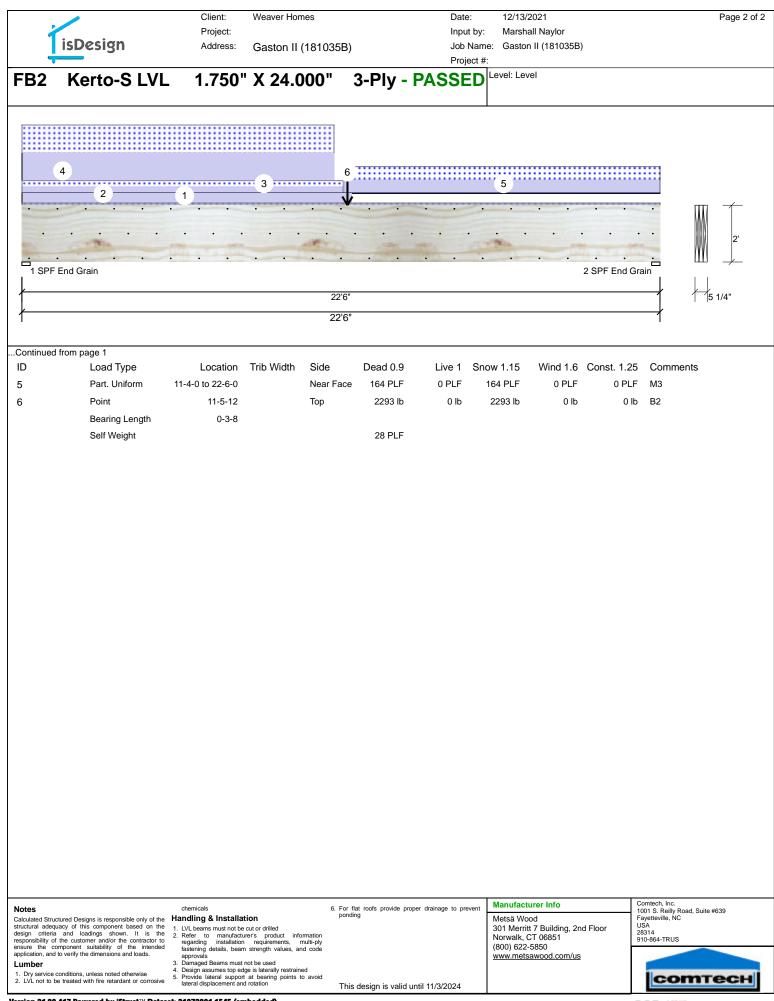
16d/3-1/2"	16d/3-1/2"	NA	18	USP	HUS26	
	=	1st Le	ve	el W	all 💻	
	= 2	2nd Le	Ve	el M	/all	
L						

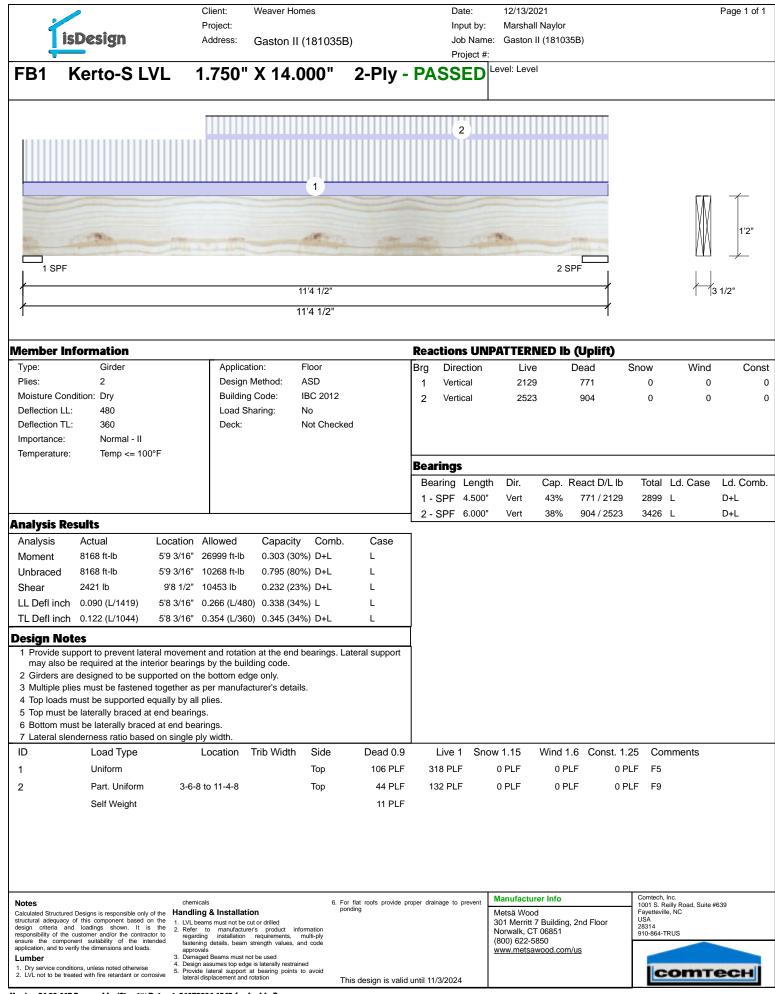
	(045Fb	ART FOR JAC ON LABLES (\$502.5) OK STUDO ACOURA(\$	1) \$ (6))	BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer	
	1100 0 10 EFE	FEADER/SCROER	0 0 54569 54569	JOB NAME	Lot 5 Thomas Bluff	ADDRESS	Josey Williams Road	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	соттесн
	H SM(C)	ALC VIEW	IND RUAC UP D REQUES IN	PLAN	Gaston II (181035B) 3 Car	MODEL	Roof	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	ROOF & FLOOR
	700 1 1400 2 5100 3	2550 1 5100 2 7650 3	3400 1 6600 2 10200 3	SEAL DATE	N/A	DATE REV.	11	(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	TRUSSES & BEAMS Reilly Road Industrial Park
1	800 4 1500 5 0200 6	10200 4 12750 5 15300 6	13600 4 17000 5	QUOTE #		DRAWN BY	Marshall Naylor	specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.	Fayetteville, N.C. 28309 Phone: (910) 864-8787
2	1900 7 3600 8 5300 9			JOB #	J1121-6666	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

<u>Truss</u> <u>Placement</u> <u>Plan</u> SCALE: 1/4"=1'

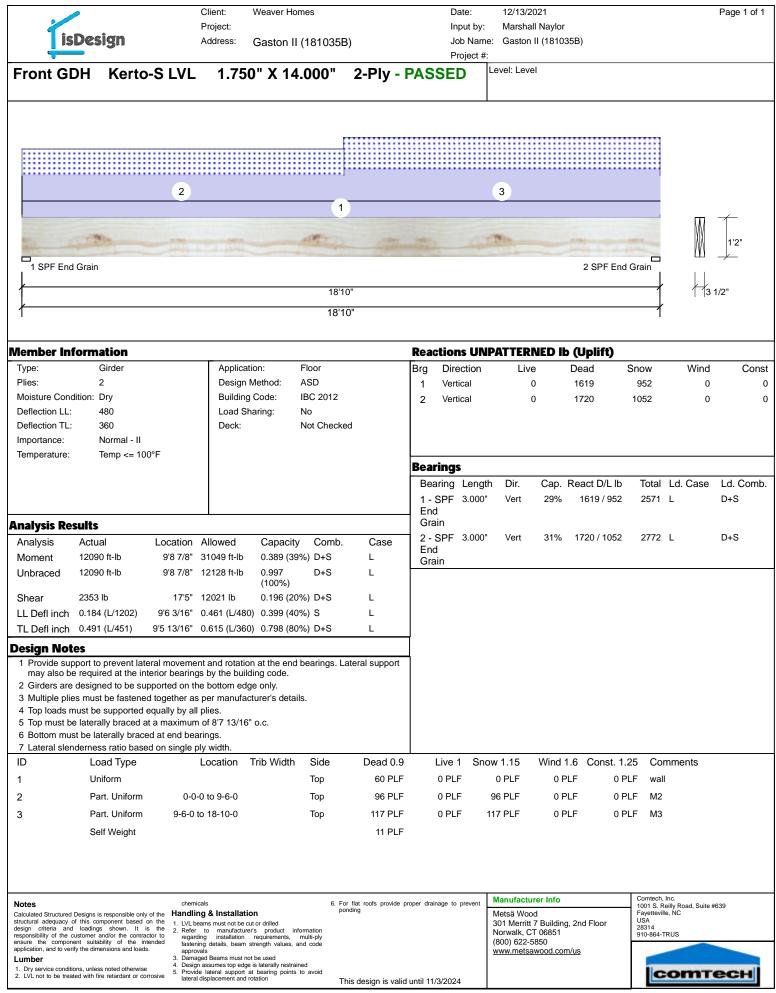


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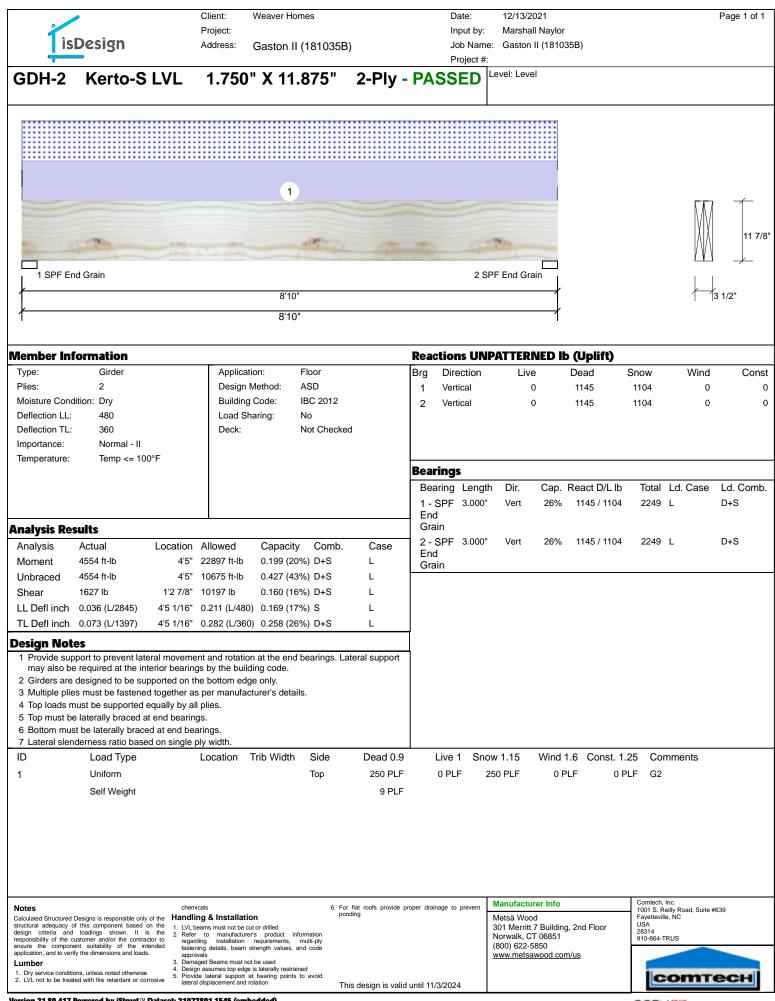


2 SPF End Grain
2 SPF End Grain
L L
] [] [] [] [] [] [] [] [] [] [] [] [] []
I
ions UNPATTERNED Ib (Uplift)
Direction Live Dead Snow Wind Co
Vertical 1060 1887 1113 0
Vertical 1060 1887 1113 0
ngs
ng Length Dir. Cap. React D/L lb Total Ld. Case Ld. Con PF 3.500" Vert 34% 1887 / 1629 3516 L D+0.756
PF 3.500" Vert 34% 1887 / 1629 3516 L D+0.75
ve 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments
ve 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments PLF 0 PLF 0 PLF 0 PLF F4
PLF 0 PLF 0 PLF 0 PLF F4

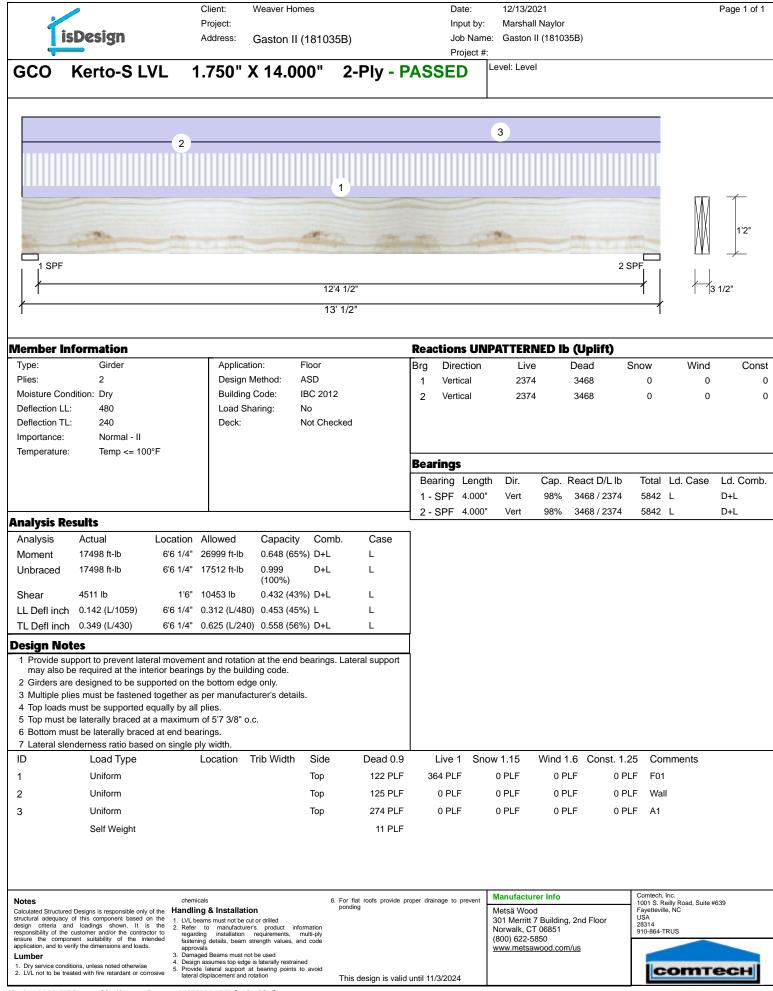


		Client: Project:	Weaver Hor	nes		Date: Input by	12/13/20 : Marshall				Page 1 of
isl	Design	Address:	Gaston II	(181035B)			ne: Gaston I	I (181035B)			
		<u></u>				Project a	#: Level: Level				
Nindow	Hdr. Kerto-	SLVL 1.	750" X [^]	14.000"	2-Ply	- PASSED	Level. Level				
2 1 SPF End	6 3 4	6'10"	1	5 SPF End Grai							1'2"
1		6'10"			\neg						
lember info	rmation					Postione III		IED Ib (Uplift)			
	Girder	Applic	ation:	Floor		Brg Direction	Live		Snow	Wind	Со
Plies: Moisture Condit Deflection LL: Deflection TL: Importance:	2 tion: Dry 480 360 Normal - II	Buildir	g Code: Sharing:	ASD IBC 2012 No Not Checked		1 Vertical 2 Vertical	2861 873	3387 1906	1990 1168	0 0	
Temperature:	Temp <= 100°F					Bearings Bearing Leng 1 - SPF 3.000 End		Cap. React D/L 80% 3387 / 363		Ld. Case L	Ld. Cor D+0.75(
nalysis Res	ults					Grain					
Moment Unbraced Shear LL Defl inch TL Defl inch Design Note 1 Provide supp may also be 2 Girders are o 3 Multiple plies 4 Top loads mu	11172 ft-lb 11172 ft-lb 6407 lb 0.033 (L/2343) 2 0.067 (L/1165) 2	bearings by the bu ed on the bottom ed ether as per manufa ly by all plies.	0.709 (71 ⁴ 0.533 (53 0) 0.205 (20 60) 0.309 (31 0 0 at the end lding code. dge only.	%) D+0.75(L+ %) D+0.75(L+ %) D+0.75(L+ %) 0.75(L+S) %) D+0.75(L+ bearings. Late	S) L S) L L S) L	2 - SPF 3.000 End Grain	" Vert	39% 1906 / 153	31 3437		D+0.75(l
6 Bottom must	be laterally braced at	end bearings.									
7 Lateral slend	lerness ratio based on Load Type	single ply width. Location	Trib Width	Side	Dead 0.9	Live 1 Sr	now 1.15	Wind 1.6 Const.	1.25 Co	mments	
1	Uniform	2030101		Тор	120 PLF	0 PLF	0 PLF		0 PLF WA		
2	Tie-In	0-0-0 to 2-0-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF () PSF 2' F	ROOF	
3	Point	1-9-8		Тор	1040 lb	3115 lb	0 lb	0 lb	0 lb F08	3	
	Bearing Length	0-3-8									
4	Point Descing Logeth	2-0-0		Тор	2385 lb	0 lb	2385 lb	0 lb	0 lb C3		
ntinued on pag	Bearing Length Je 2	0-3-8									
ructural adequacy of esign criteria and isponsibility of the cus nsure the componer oplication, and to verify umber . Dry service condition	esigns is responsible only of the this component based on the loadings shown. It is the stomer and/or the contractor to it suitability of the intended the dimensions and loads. ns, unless noted otherwise d with fire retardant or corrosive	chemicals Handling & Installa 1. LVL beams must not be 2. Refer to manufactur regarding installation fastening details, bear approvals 3. Damaged Beams must 4. Design assumes top ed 5. Provide lateral suppor lateral displacement an	cut or drilled rer's product info requirements, in strength values, ar not be used ge is laterally restrain at bearing points f	pondir multi-ply nd code ed o avoid	at roofs provide pro g design is valid (oper drainage to prevent	Norwalk, CT (800) 622-58	l ' Building, 2nd Floor 06851	Comtech 1001 S. F Fayettevi USA 28314 910-864-	teilly Road, Suite lle, NC	ech

	Client: Weaver Homes	Date:	12/13/2021	Page 2 of 2
	Project:	Input by		Fage 2 01 2
isDesign	Address: Gaston II (181			
Window Hdr. Kerto-	SIVI 1750" X 14 (Project 000" 2-Ply - PASSED		
	1 5			1'2"
1 SPF End Grain	2 SPE F			
	6'10"			3 1/2"
	6'10"			3 1/2
	010	I		
Continued from page 1 ID Load Type 5 Part. Uniform 6 Part. Uniform Self Weight	Location Trib Width Sid 2-3-0 to 6-10-0 Top 2-3-0 to 0-0-0 Top	160 PLF 0 PLF	now 1.15 Wind 1.6 Const. 1. 160 PLF 0 PLF 0 P 0 PLF 0 PLF 0 P	LF C2
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. Lumber	 LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used 		Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Comtach, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
Dry service conditions, unless noted otherwise LVL not to be treated with fire retardant or corrosive	 Design assumes top edge is laterally restrained Provide lateral support at bearing points to avoid lateral displacement and rotation 	This design is valid until 11/3/2024		соттесн
Version 21.80.417 Powered by iStruct™ Datase	et: 21072801.1545 (embedded)		1	CSD



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