

SCALE 1/8" = 1'-0"

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE

Η

Gaston

Gaston II\200128B

Inc\200128B

Company,

Development

Z:\Builder\Weaver

MEAN ROOF HEIGHT 25'-8" HEIGHT TO RID							
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 WIND SPEE				
COMPONENT & C	LADDING DESIG	GNED FOR THE	E FOLLÓWI	NG 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 WIN	D SPEED	OF 130 MF	PH, 3 SECO	OND GUST	(101 FAS	TEST MILE) EXPOSU	re "B"
COMPONENT	8 CLA	DDING	DESIG	NED FC	DR THE	FOLLO	WING	OADS
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
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	26.9

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

HVAC: TBD **ELECTRICAL: PIONEER** PLUMBER: DOUBLE J

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 doth screening, hardware doth, 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 with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 1558 SQ.FT. NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 10.39 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 = 5.16 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 *quards* 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. Exceptions:

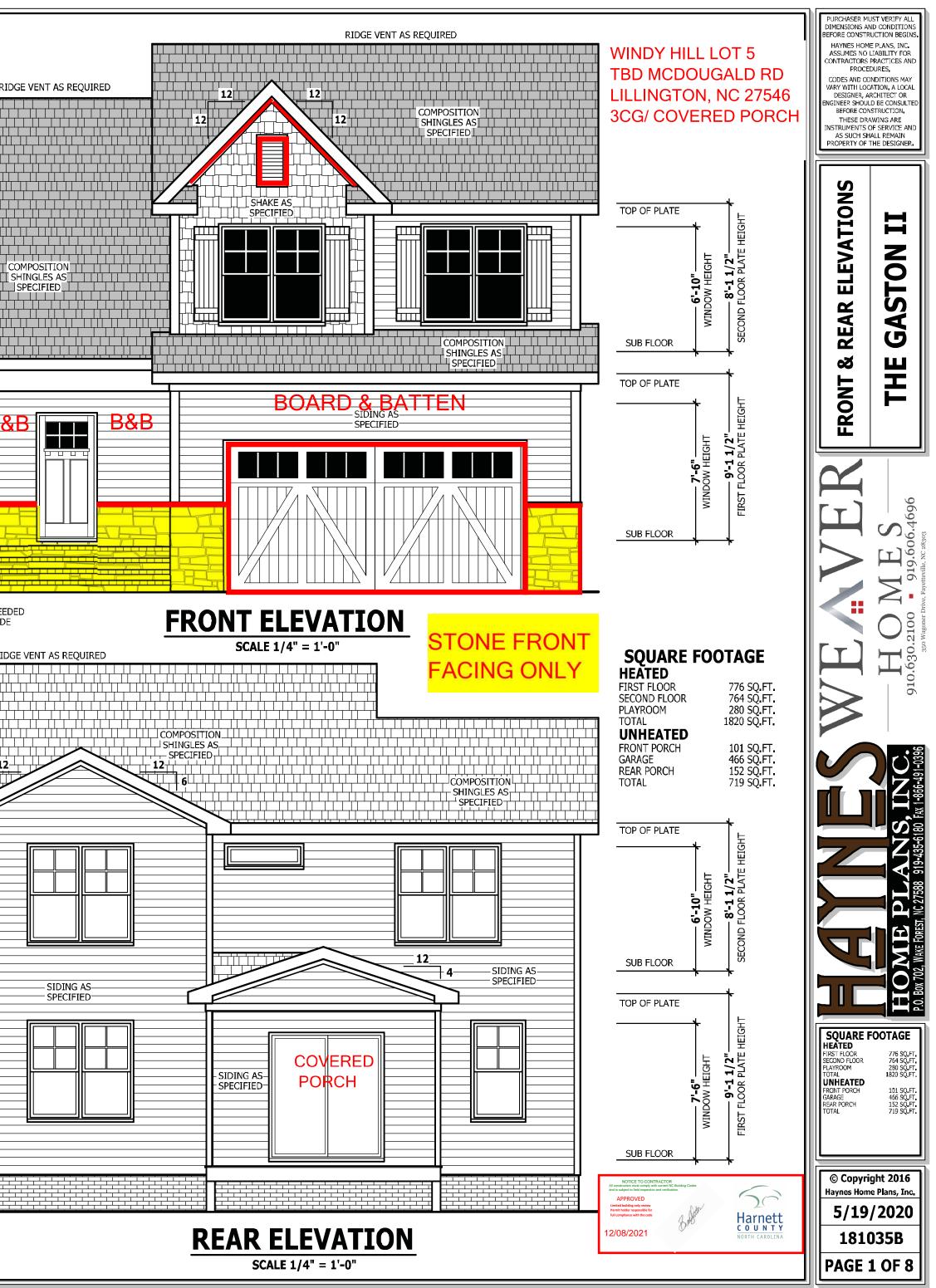
1. *Guards* on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

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 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.

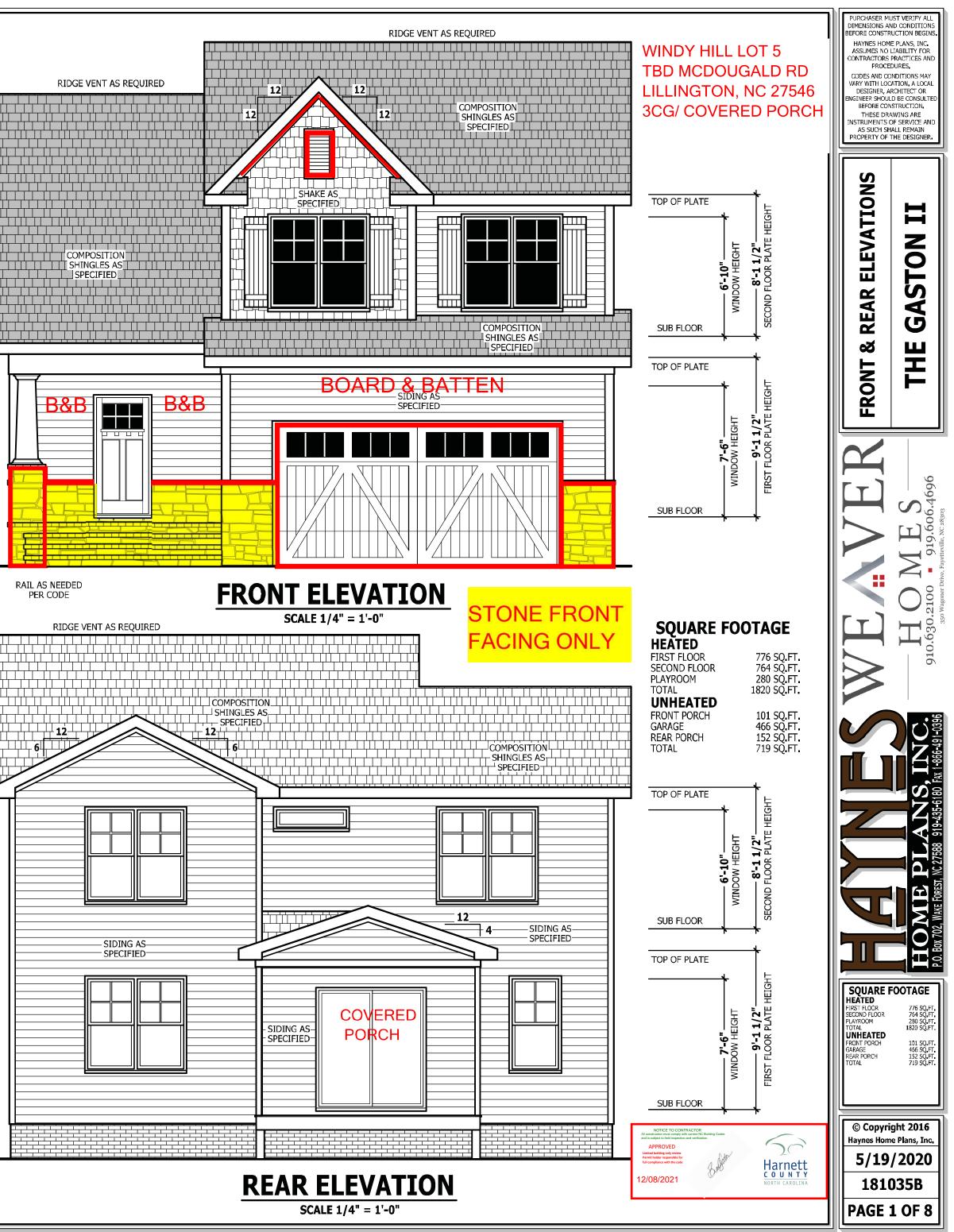
R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required *quard* height which allow passage of a sphere 4 inches (102 mm)in diameter. Exceptions:

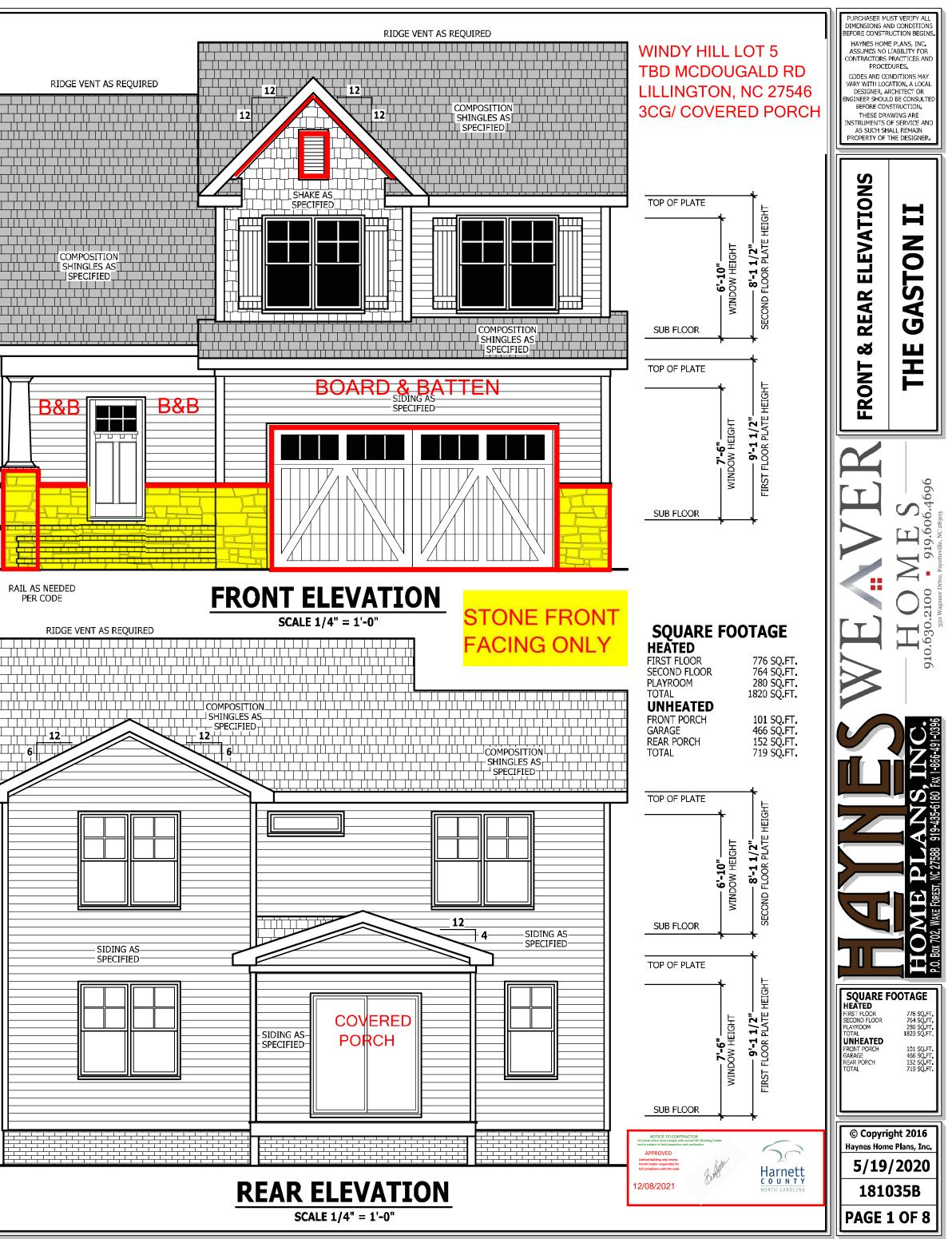
1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153 mm) in diameter

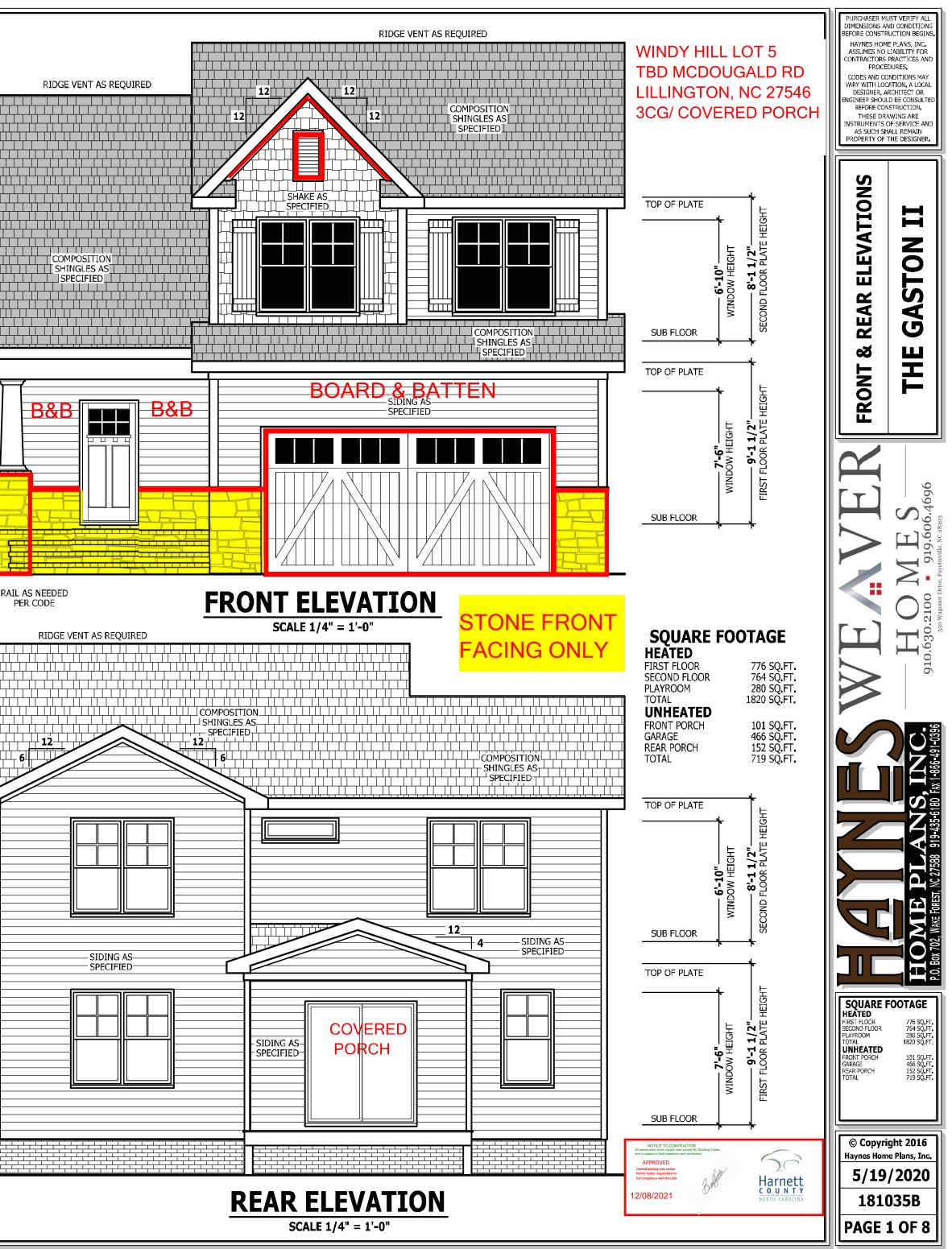
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter.

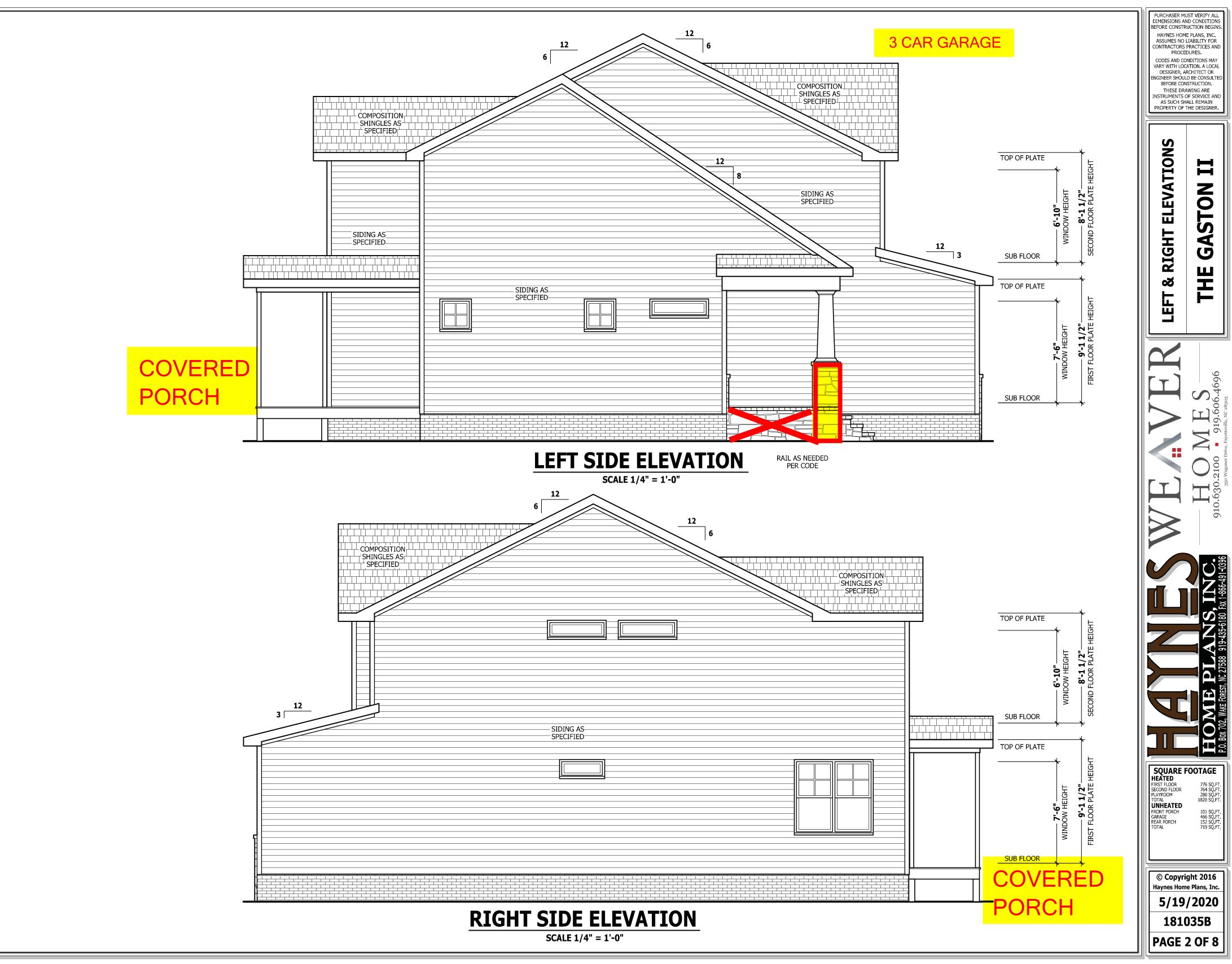


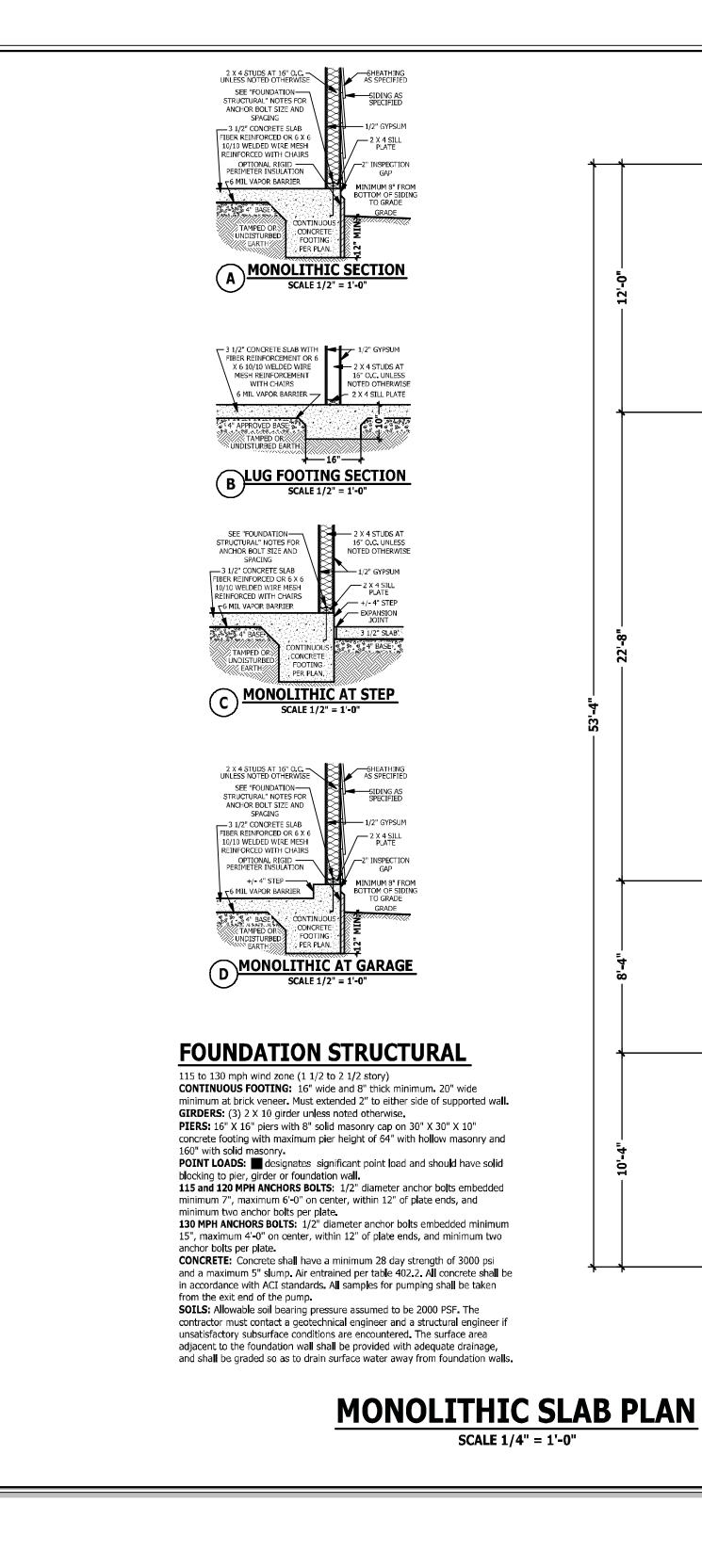












· 12'-2"·

18" X 18" X 8"

CONCRETE

FOOTING

18" X 18" X 8

CONCRETE

FOOTING

- 3'-2"

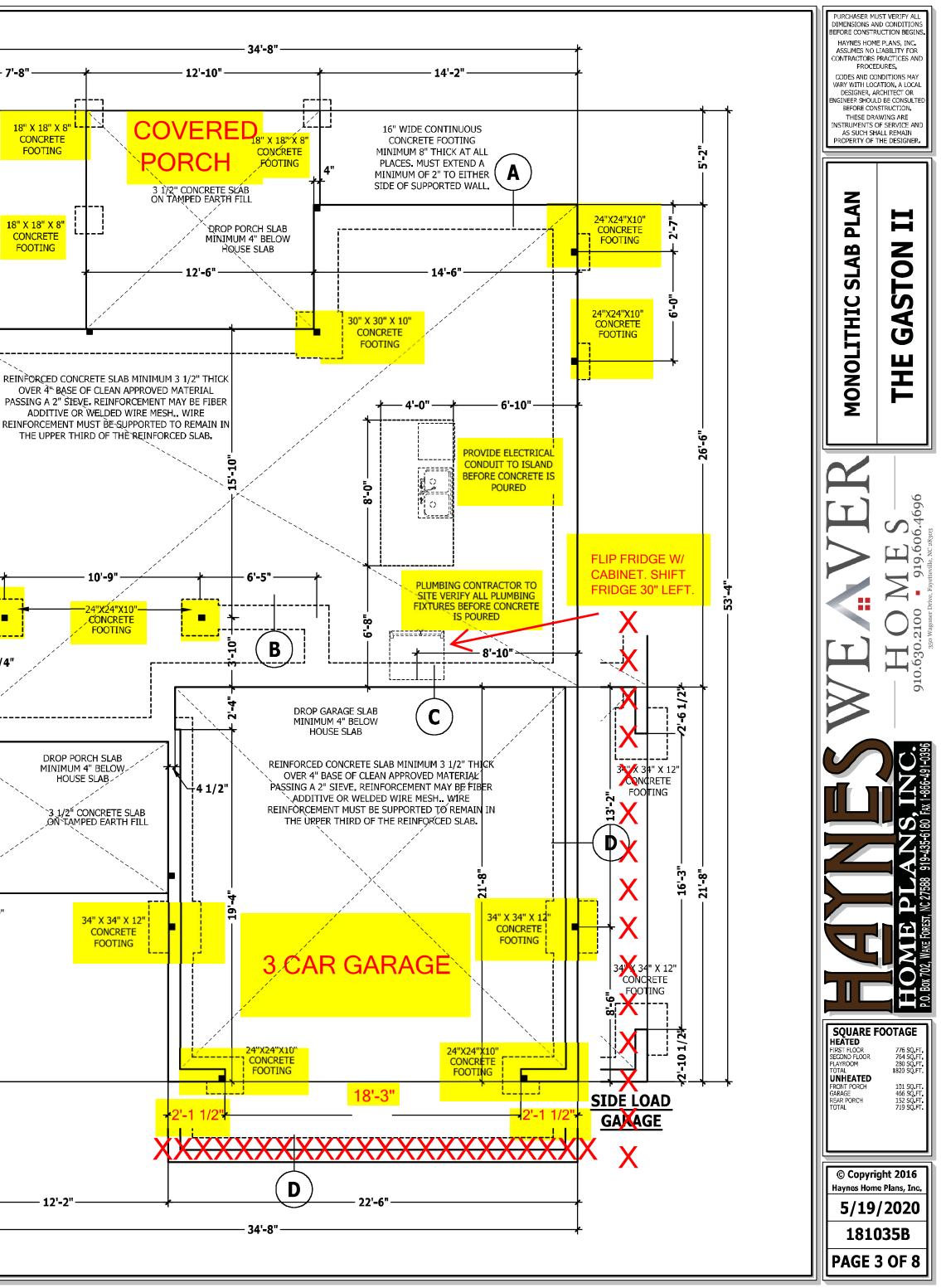
L**'-8 1/4**"

i zer

2**6**" X 26" X 10"

CONCRETE

FOOTING



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

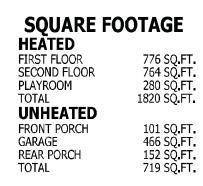
SECTION R612

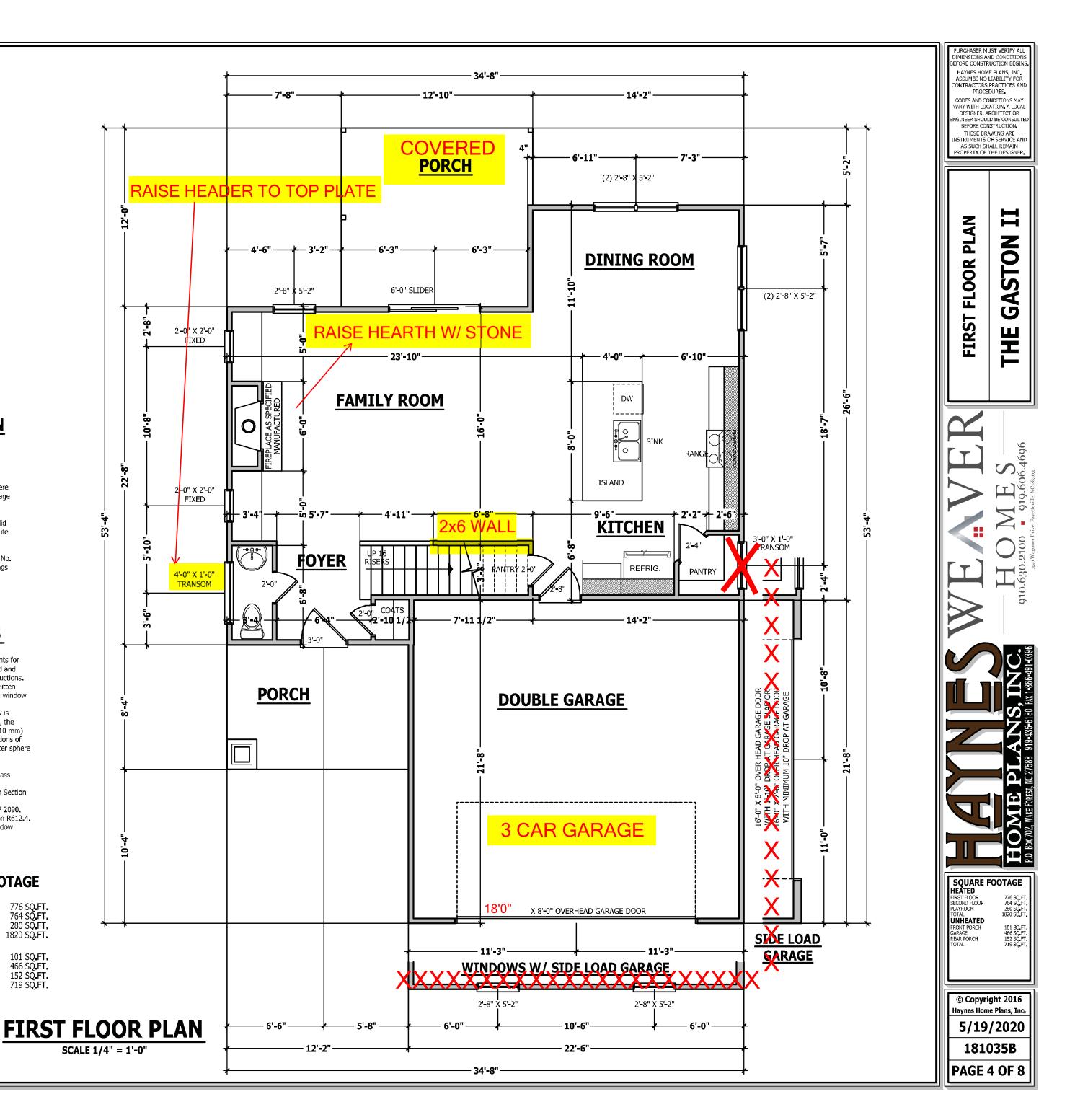
R612.1 General. This section prescribes performance and construction requirements for exterior windows and doors installed in walls. Windows and doors shall be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Window and door openings shall be 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:**

 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.





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.									
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	4 0	10	L/360						
Sleeping rooms	30	10	L/360						
Staire	40		1/360						

Snow -------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

Instal 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.

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 edgers unless noted otherwise.

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

EXTERIOR HEADERS

- 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**

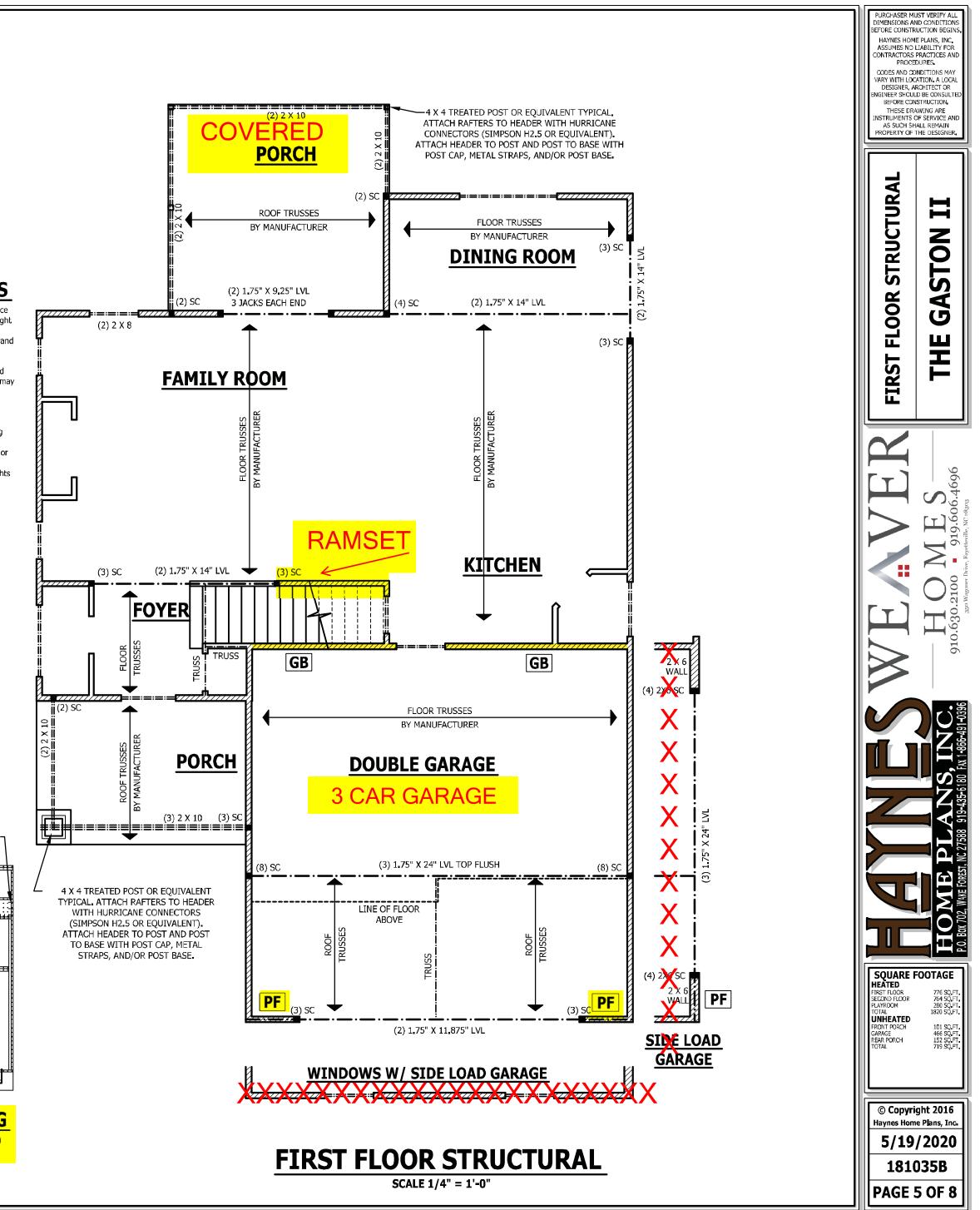
- NON LOAD BEARING HEADERS TO BE

- (2) 2 X 6 WITH 1 JACK STUD EACH END

UNLESS NOTED OTHERWISE

UNLESS NOTED OTHERWISE

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 stened per table R702.3.5 nod GB gypsum to be fa

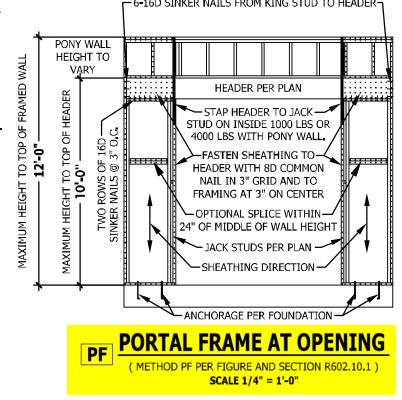
GB to be fastened per table R602.10.1. **REQUIRED LENGTH OF BRACING:** Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602 10 3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 lbs hold down hold down device fastened to the edge

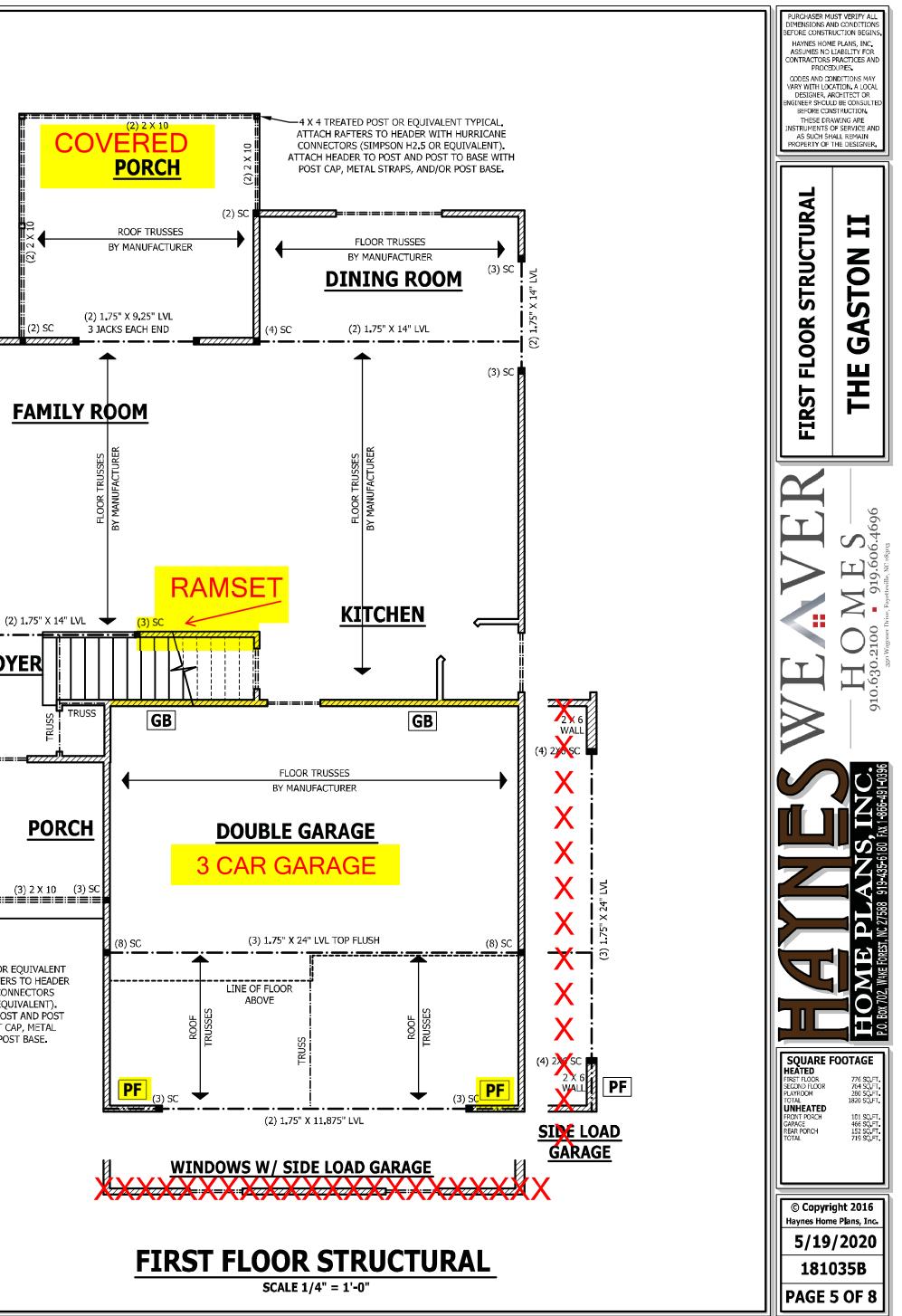
of the brace wall panel dosets to the corner. Methods Per Table R602.10.1

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 $1 \frac{1}{2}$ long x 0.12" diameter galvanized roofing nai s

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

- 6-16D SINKER NAILS FROM KING STUD TO HEADER





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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
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
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
Show	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 Paralel 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 Instal a 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. $6'' \times 4'' \times 5/16''$ 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.

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 dear 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:

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 Pull down stair treads, stringers, handrails, and hardware may

protrude into the net dear opening.

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:**

 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.

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

- 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

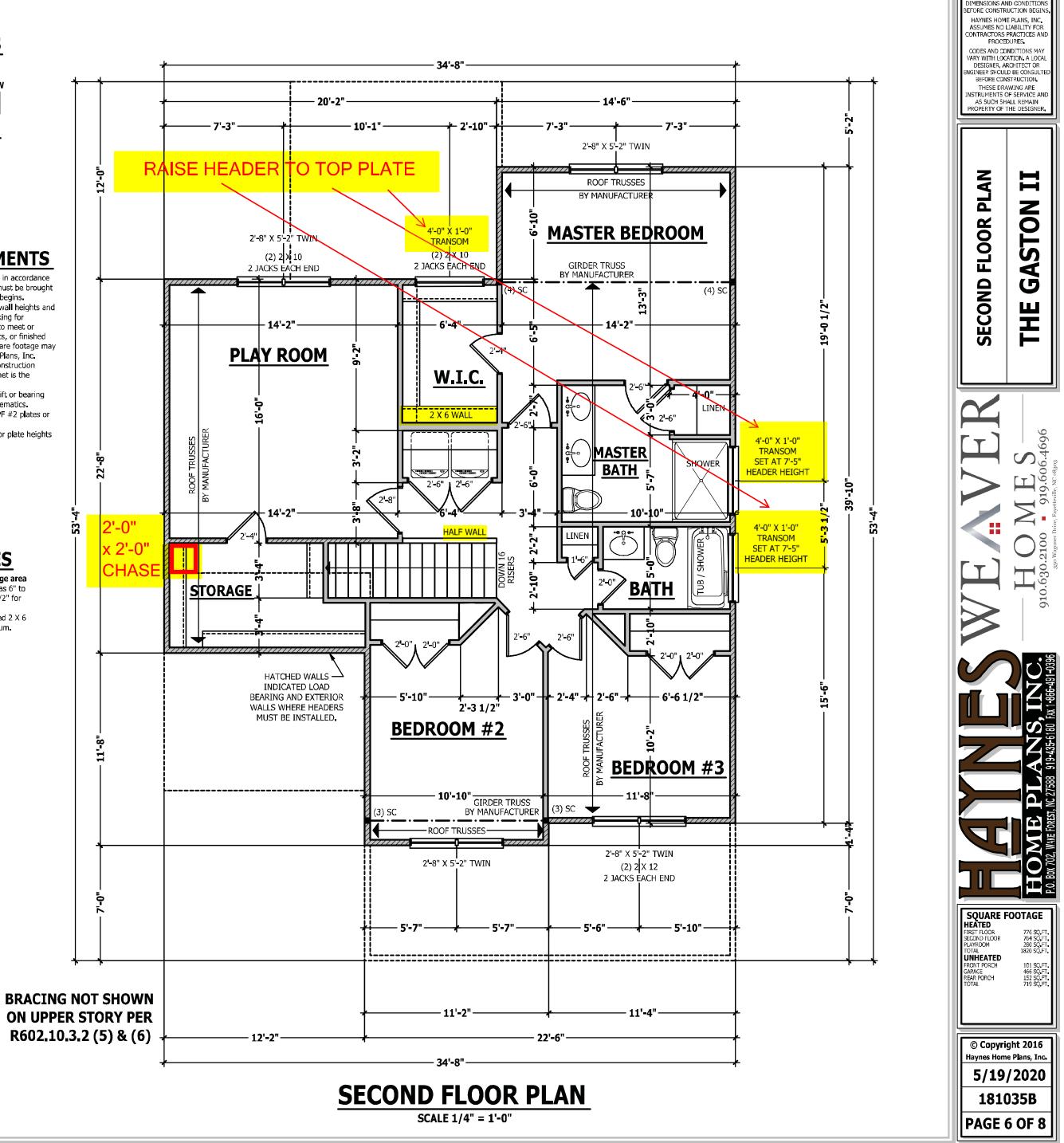
TRUSS DESIGN. Trusses to be designed and engineered in accordance with these drawings. Any variation with these drawings must be brought to Haynes Home Plan, Inc. attention before construction begins. **KNEE WALL AND CEILING HEIGHTS.** All finished knee wall heights and ceiling heights are shown furred 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.

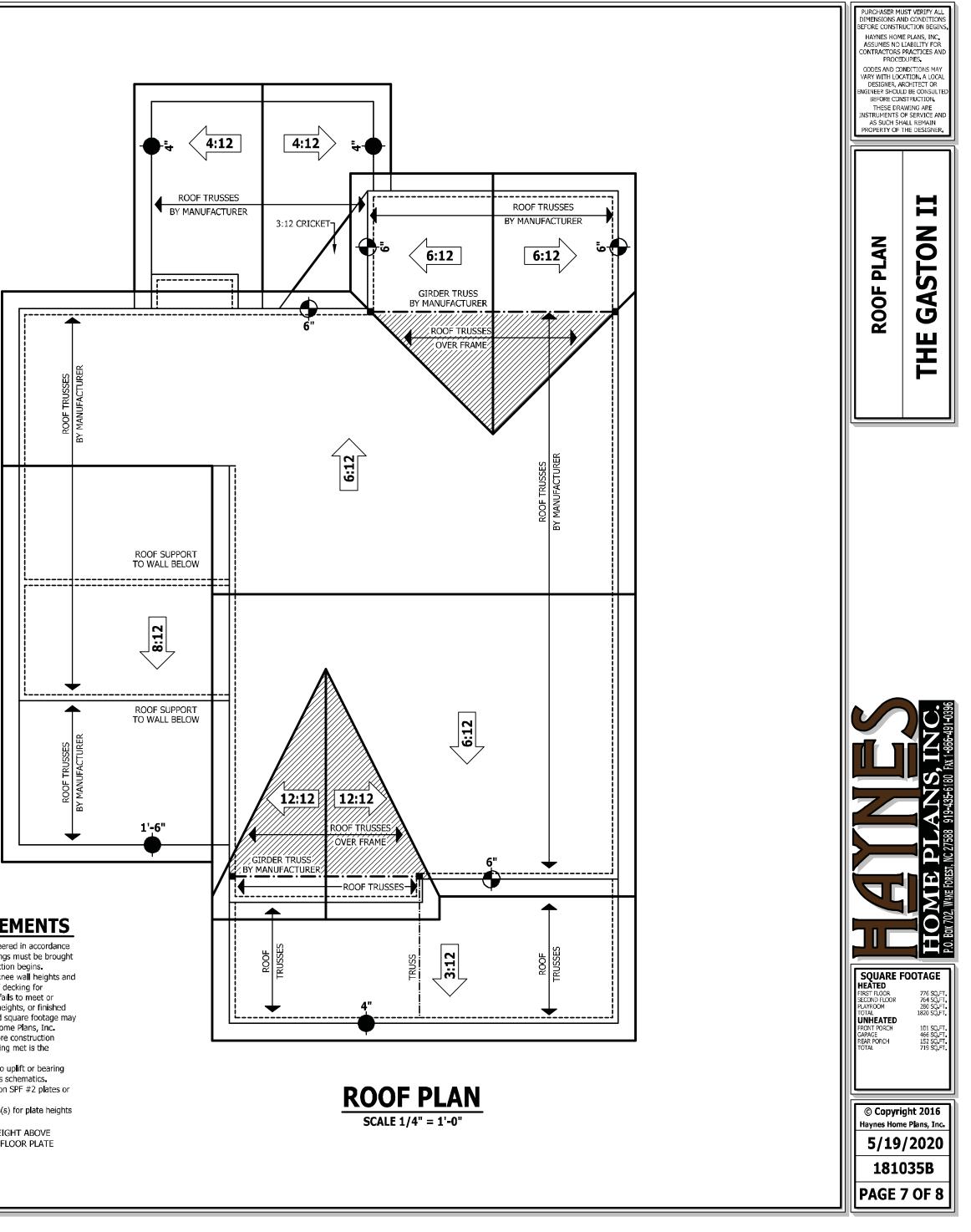
Plate Heights & Floor Systems. See elevation page(s) for plate heights and floor system thicknesses.

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.



PURCHASER MUST VERIFY AL



ROOF TRUSS REQUIREMENTS

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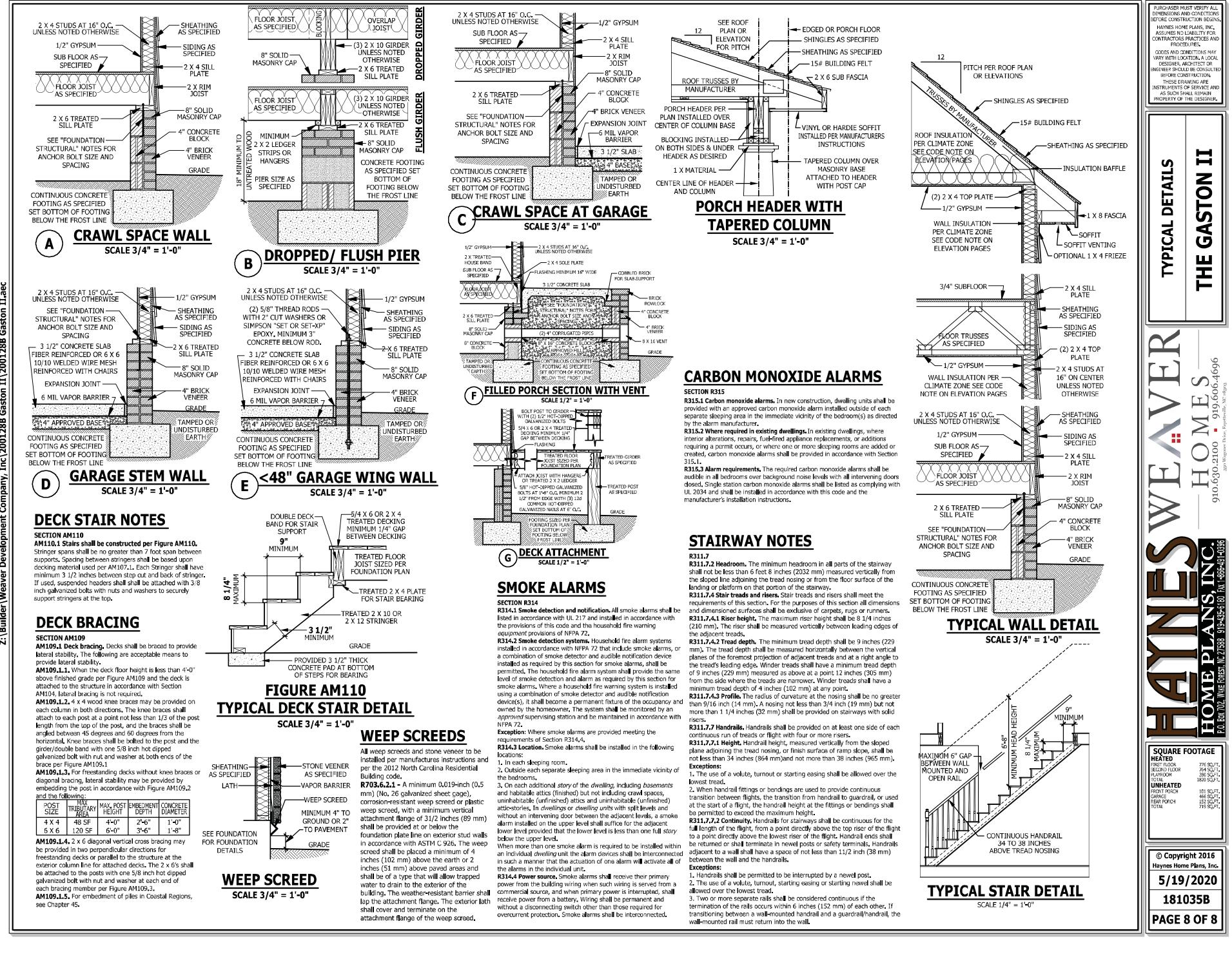
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 Plate Heights & Floor Systems. See elevation page(s) for plate heights

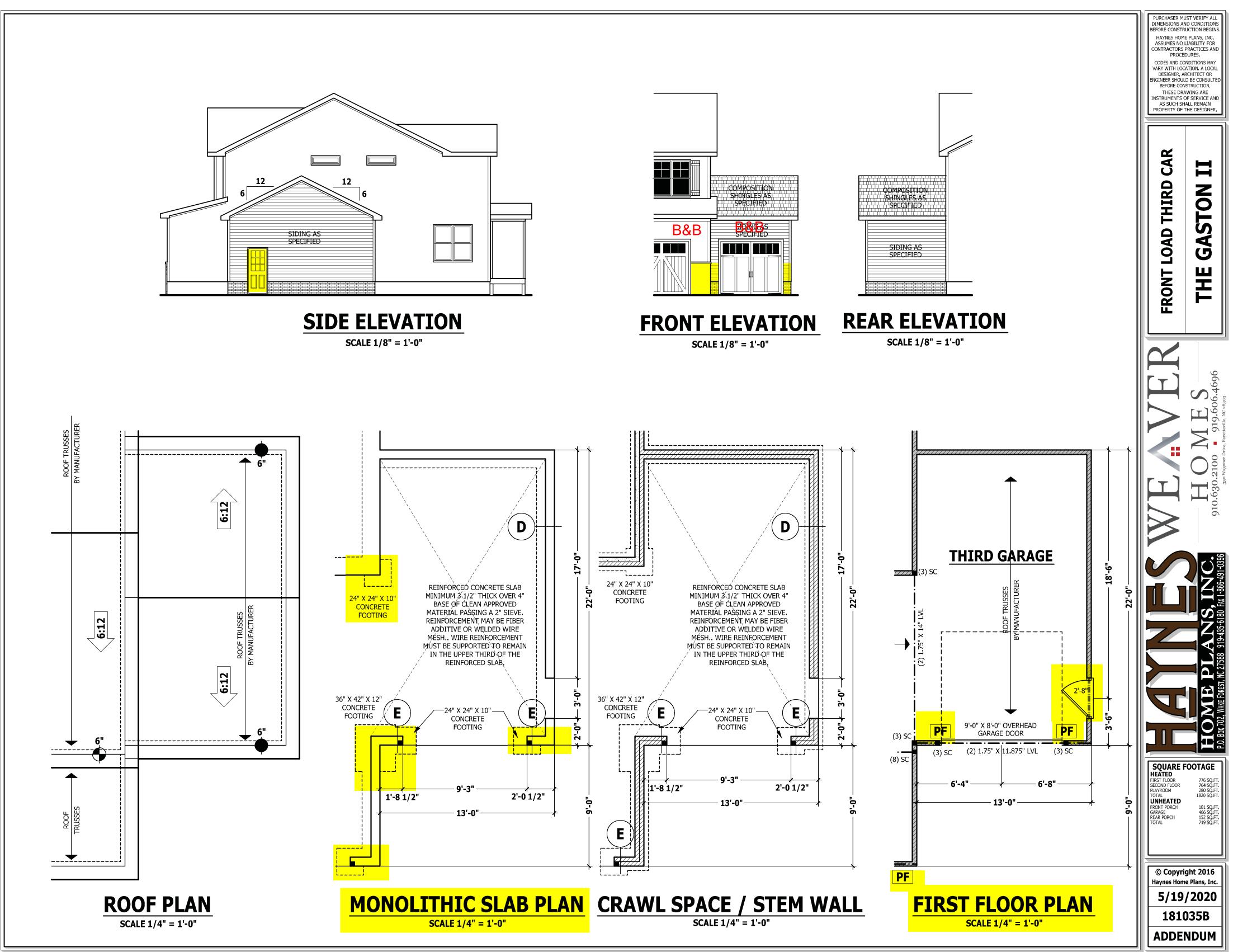
and floor system thicknesses.

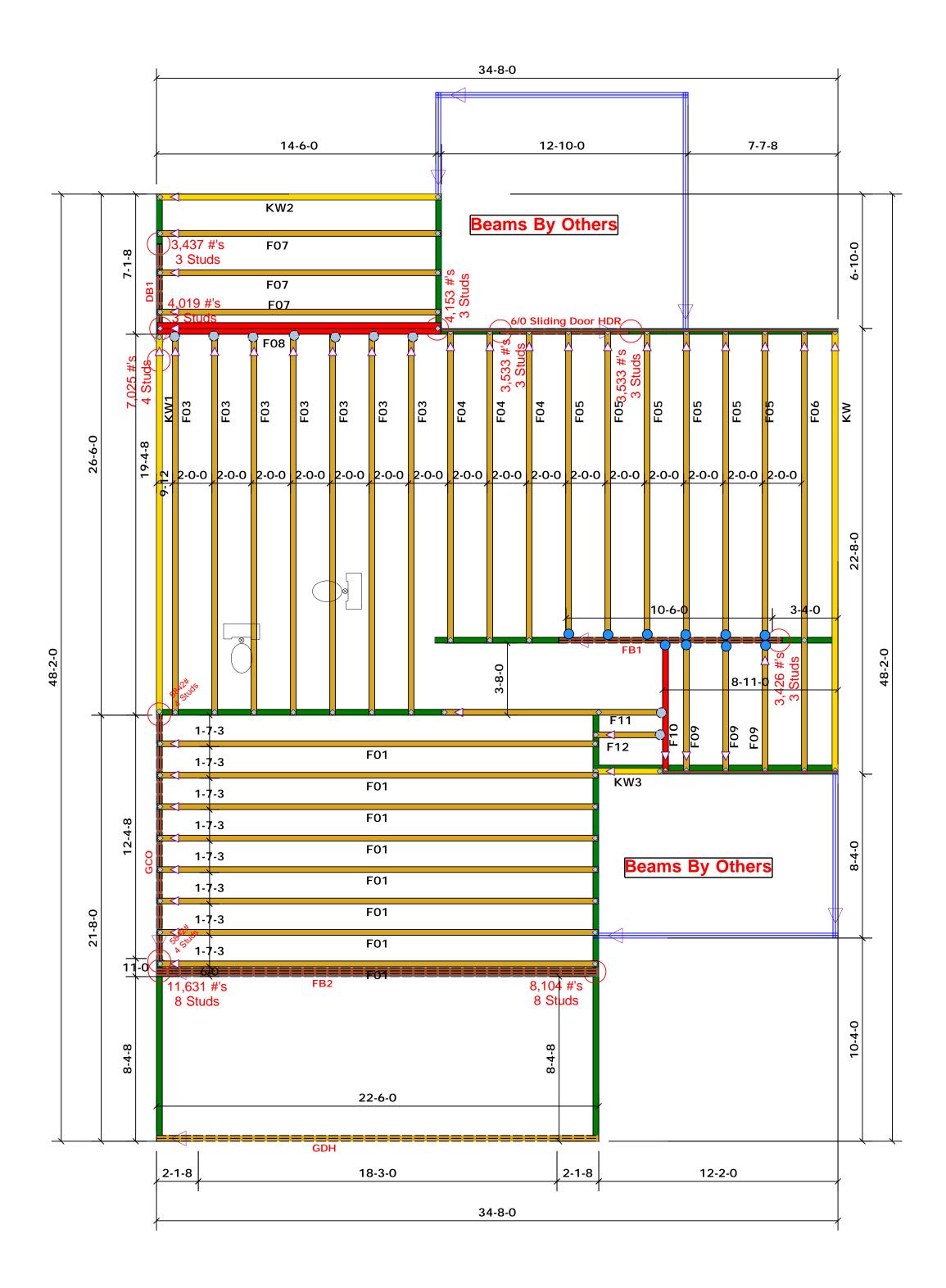
HEEL HEIGHT ABOVE FIRST FLOOR PLATE

uilder\Weaver Development Company, Inc\200128B Gaston II\200128B Gaston II.ª

N







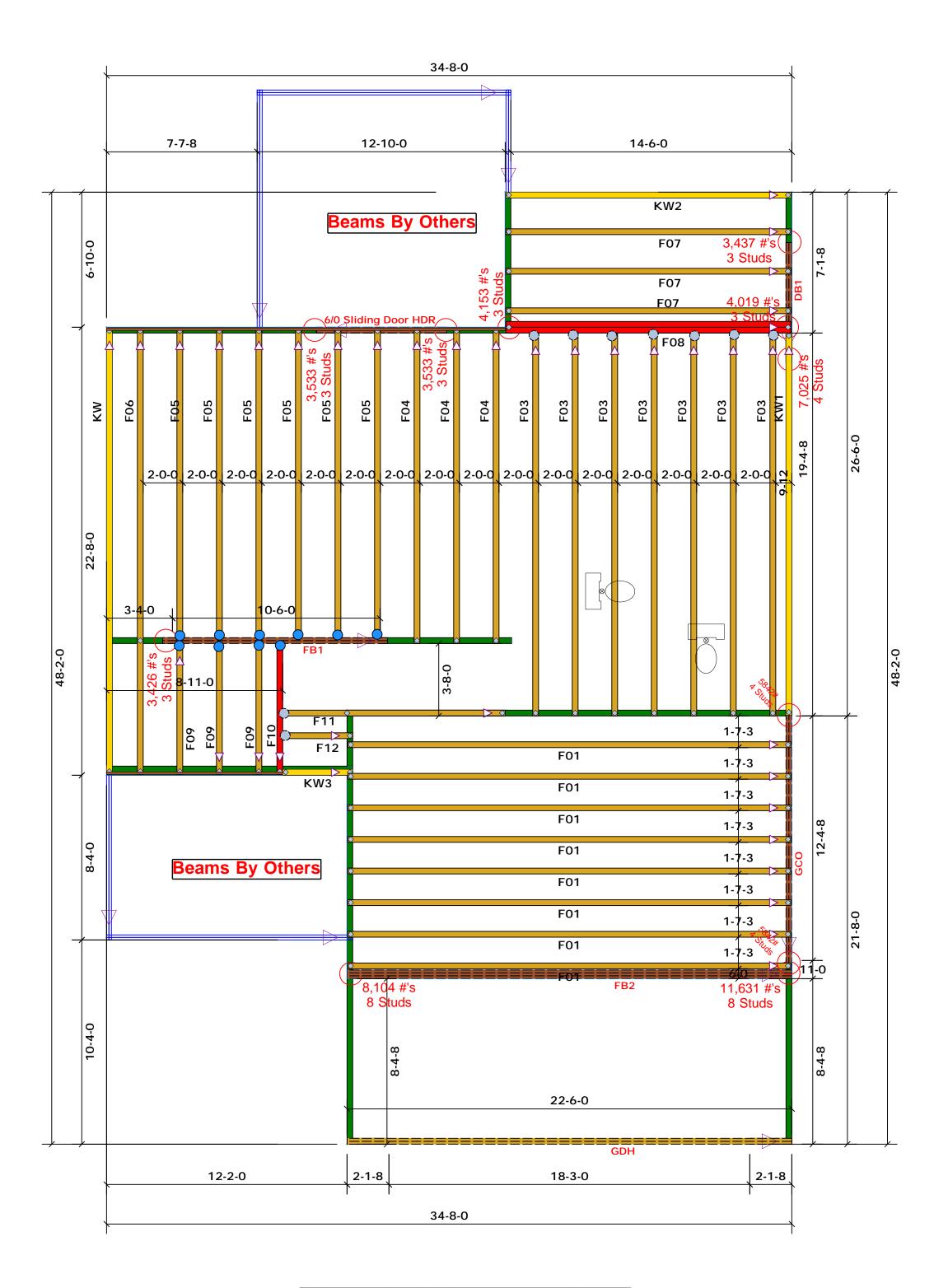
\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

-- 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>Truss</u> <u>Placement</u> <u>Plan</u> SCALE: 1/4"=1'						-	ce Engineered Truss Drawing) OT Erect Truss Backwards
	D CHART FOR JA (045Fb ON 140JFS R5025 CR OF JACK STUDG RCOUTE)	5(1) 4 (6))	BUILDER	Weaver Development Co. I nc.	COUNTY	Johnston	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	
	FEADER/GIROER	z 20	JOB NAME	Lot 74 Nolan Park North Phase	ADDRESS	Choctaw Trail	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
×.	(6 <u>7 8</u> 6	NN NN NU NU NU NU NU NU	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
1700 3400 5100	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3400 1 6600 2 10200 3	SEAL DATE	N/A	DATE REV.	/ /	(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 8500 10200 11900	5 12750 5 6 15300 6	13600 4 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 #	J1121-6499	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

A = Indicates Left End of Truss
(Reference Engineered Truss Drawing)



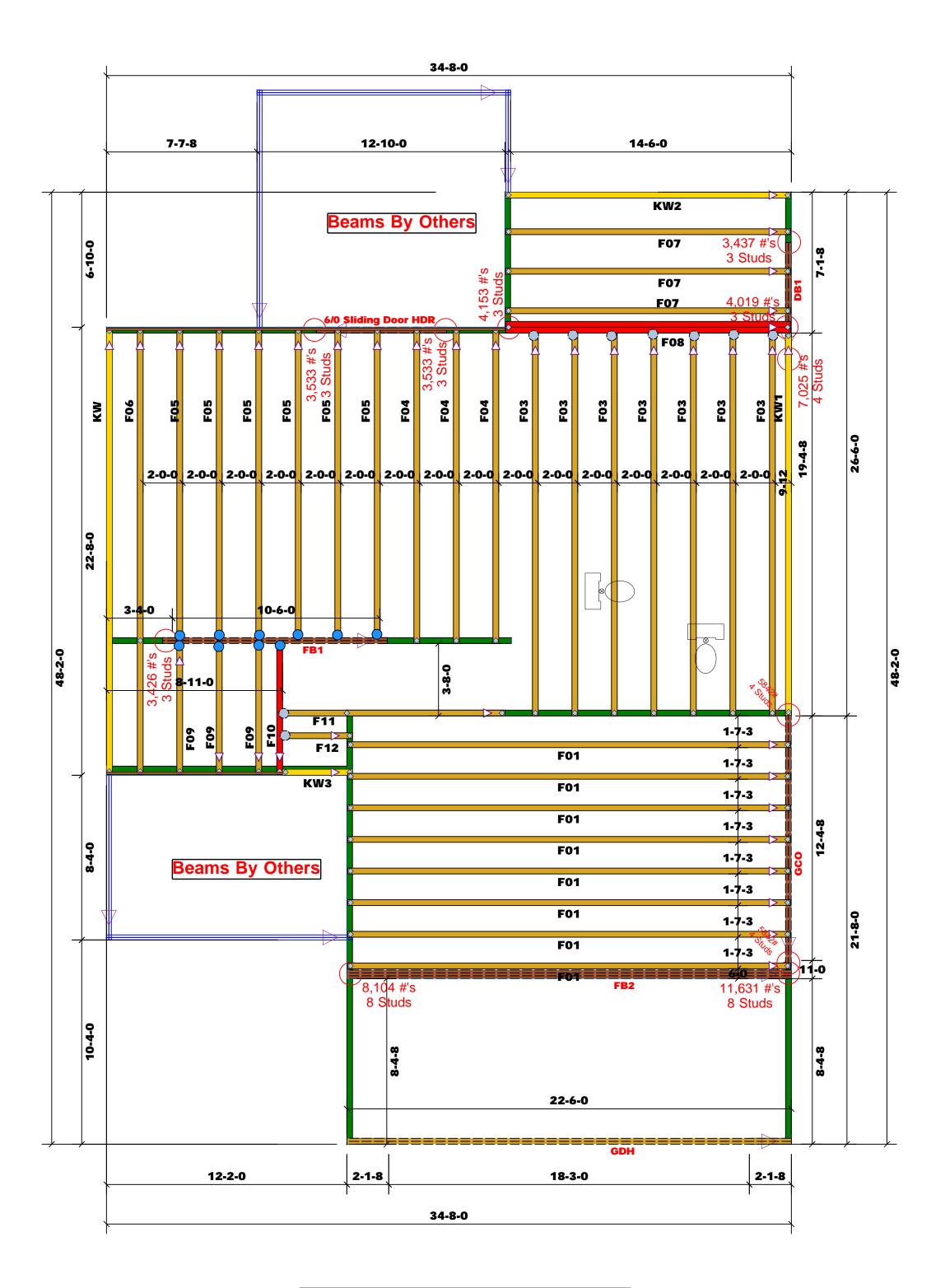
\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

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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				

	Truss Placement Plan SCALE: 1/4"=1'						-	nce Engineered Truss Drawing) OT Erect Truss Backwards
045	HART FOR JAC (SFE ON 1 ABLES R502 5)) (- JACK STUDS RCOURS)	() A (b))	BUILDER	Weaver Development Co. I nc.	COUNTY	Johnston	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	
(14 TO) (14 TO) (14 TO) (14 TO) (14 TO) (14 TO)	FEADER/6TRDER	ADE N CLICK CL	JOB NAME	Lot 74 Nolan Park North Phase	ADDRESS	Choctaw Trail	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
8 ge	<u>2</u> go	No SU SU SU SU SU SU SU SU SU SU SU SU SU S	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
1700 1 3400 2 5100 3	2550 1 5100 2 7650 3	3400 1 6600 2 10200 3	SEAL DATE	N/A	DATE REV.	/ /	(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	10200 4 12750 5 15300 6	13600 4 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 #	J1121-6499	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

A = Indicates Left End of Truss
(Reference Engineered Truss Drawing)



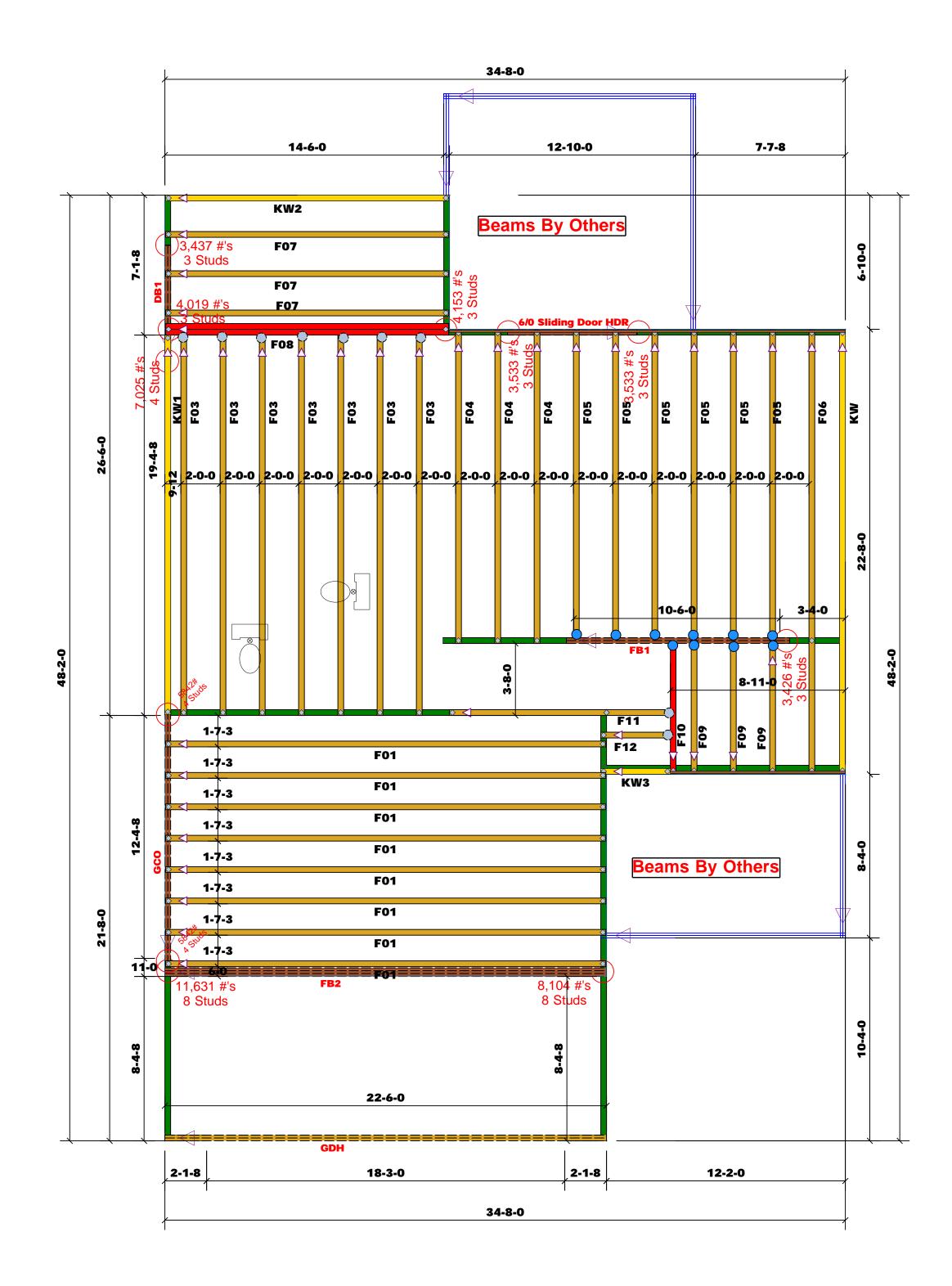
\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
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FB2	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF				

]	<u>Fruss</u> <u>Placemer</u> SCALE: 1/4"		•	nce Engineered Truss Drawing) IOT Erect Truss Backwards
<u>0</u> 4	HART FOR JAC (NFD ON 1 ABLES (2502-511) (JACK STUDS (2500-160)	4.0-0	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	
CTICN 0) Catero Eatero	PEADEWEIRDER	CTICN UBS FUG	JOB NAME	Lot 5 Windy Hill	ADDRESS	McDougald 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
14 C 28 C 29 C 20	Andre Andre Antre		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
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
6800 4 8500 5 10200 6	10200 4 12750 5 15300 6	13600 4 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 #	J1121-6683	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing)



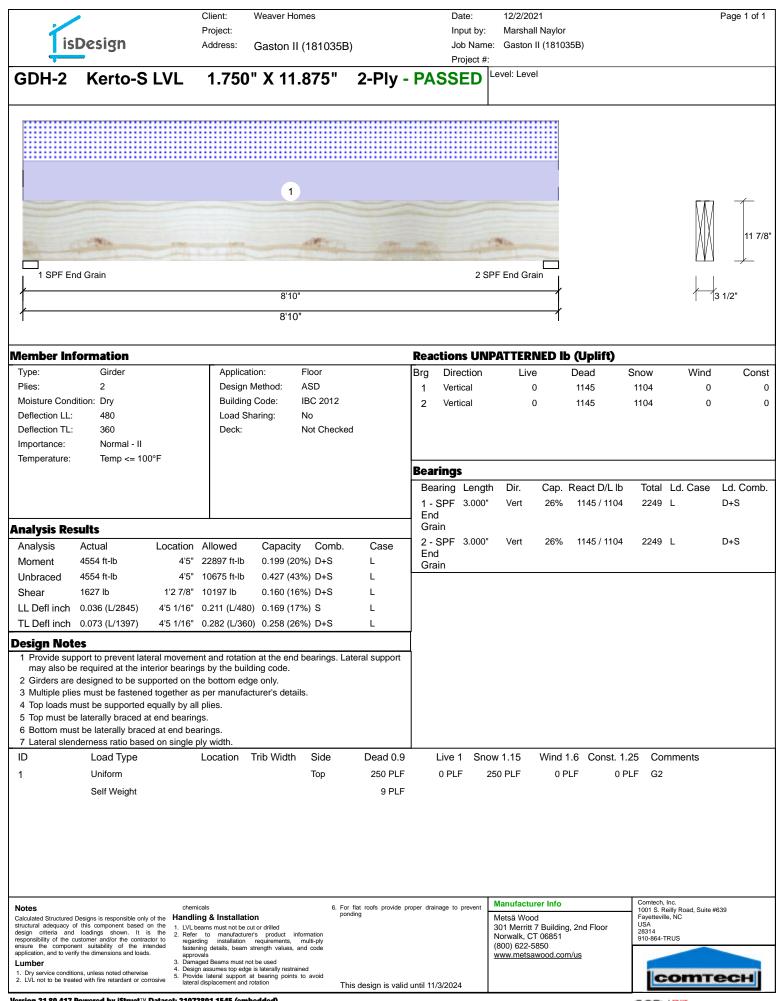
\bigcirc	HUS410	USP	10	NA	16d/3-1/2"	16d/3-1/2"
\bigcirc	MSH422	USP	9	Varies	10d/3"	10d/3"

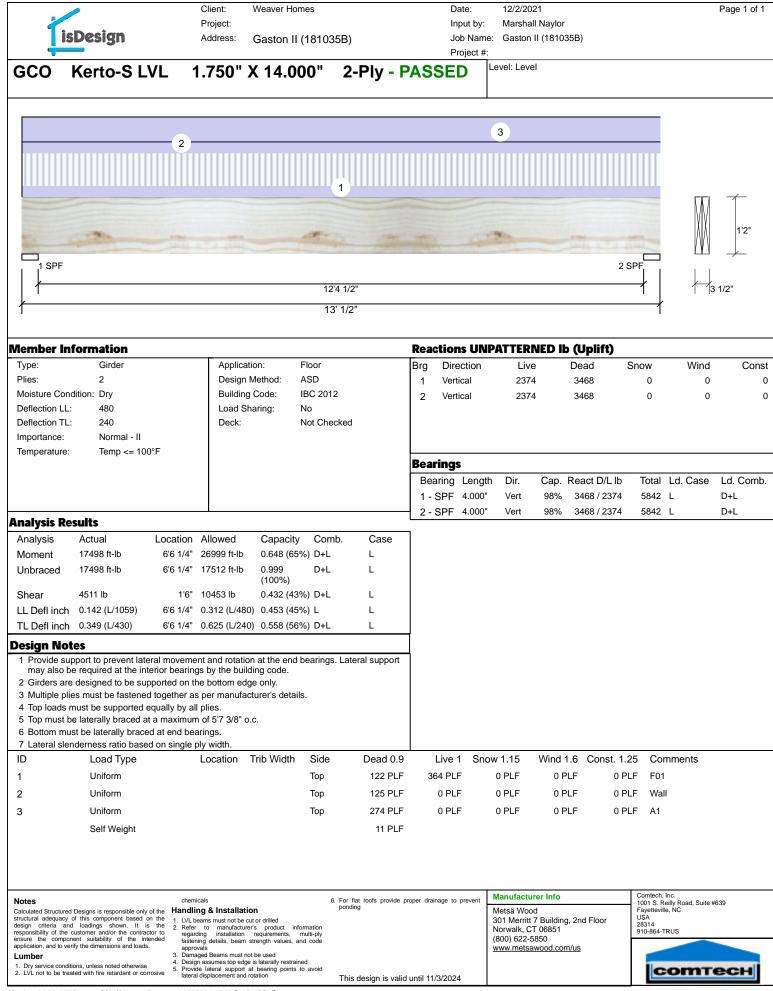
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PlotID	Length	Product	Plies	Net Qty	Fab Type				
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	Description Integration Integration	nce Engineered Truss Drawing) IOT Erect Truss Backwards							
	(BASED ON	1 ABLES 8502 5(1)	4.00)	BUILDER	Weaver Development Co. Inc.	COUNTY	Harnett	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	
	FE	EADERVETROER Z ÎÎ L	S FOR	JOB NAME	Lot 5 Windy Hill	ADDRESS	McDougald 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
N.	#E	And Size Size Size Size Size Size Size Size	11 S G ANGE 11 S G ANGE 11 S G ANGE 11 S G ANGE 11 S G ANGE 12 S G ANGE 13 G ANGE 14 A G ANGE 14	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
1700 3400 5100	2 : 3 7	2550 1 5100 2 7650 3	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 8500 10200	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
11900 13600 15300	8			JOB #	J1121-6683	SALESMAN	Lenny Norris	Signature Marshall Naylor	Fax: (910) 864-4444

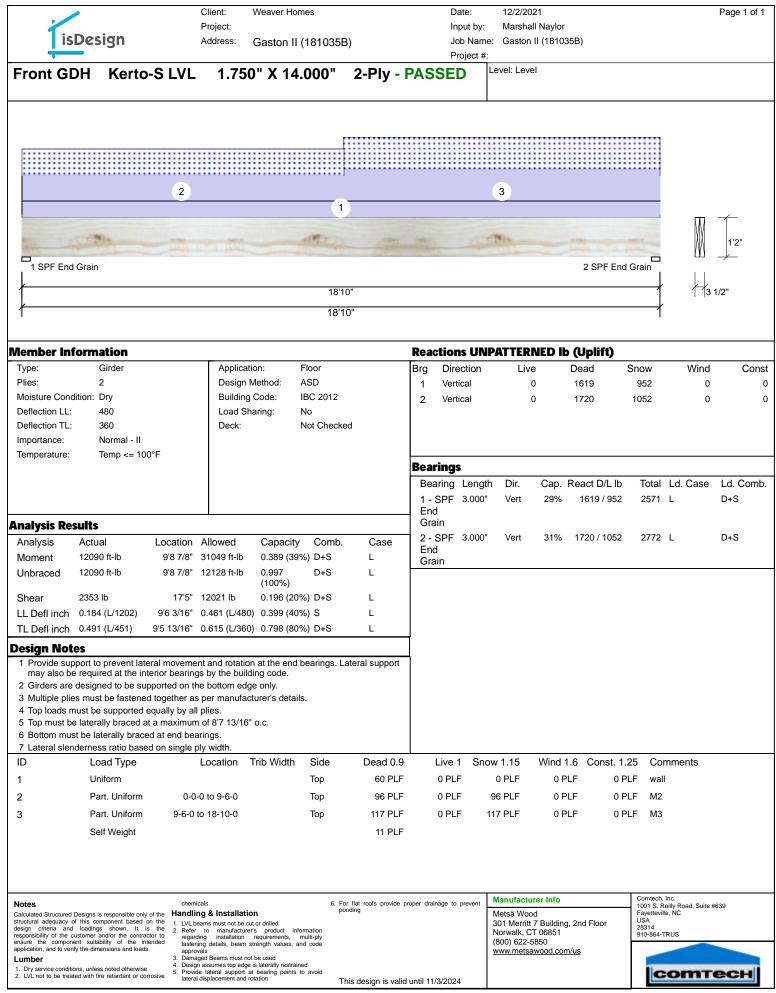
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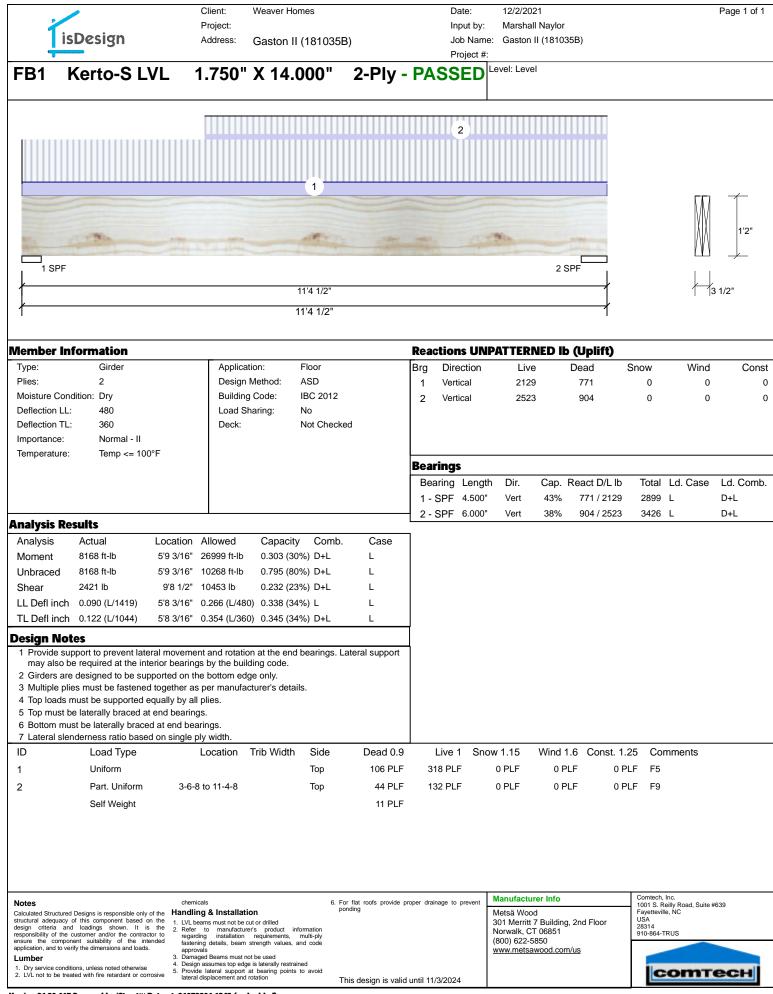


	•	Client: Project:	Weaver He	omes		Date: Input b	12/2/20 by: Marsha	21 Il Naylor			Page 1 of
is	Design	Address:	Gaston I	I (181035B)		Job Na	ame: Gaston	II (181035B)			
`						Project					
Nindow	Hdr. Kerto	-S LVL 1.	750" X	14.000"	2-Ply	- PASSEE	Level: Leve	31			
2 1 SPF Enc	6 3 4	6'10"	1	2 SPF End Gra							1'2"
<u>}</u>		6'10"			\rightarrow						
lember inf	ormation					Reactions U	NPATTER	NED Ib (Uplif	t)		
Type: Plies:	Girder 2	Applic		Floor ASD		Brg Direction			Snow	Wind	Cor
Moisture Cond			n Method: g Code:	IBC 2012		1 Vertical 2 Vertical	286 87:		1990 1168	0	
Deflection LL:	480		Sharing:	No		2 vertical	87.	3 1906	1108	0	
Deflection TL:	360	Deck:	0	Not Checked							
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
						Bearings					
						Bearing Ler	ngth Dir.	Cap. React D/	L lb Tota	al Ld. Case	Ld. Com
						1 - SPF 3.00	-	80% 3387/3	8638 702	5 L	D+0.75(L
						End					,
nalysis Res	sults					Grain					
Analysis	Actual Lo	ocation Allowed	Capacit	y Comb.	Case	2 - SPF 3.00 End	00" Vert	39% 1906 / 1	531 343	7 L	D+0.75(L
Moment	11172 ft-lb	2' 31049 ft-lb	0.360 (3	6%) D+0.75(L+	+S) L	Grain					
Unbraced	11172 ft-lb	2' 15767 ft-lb	0.709 (7	1%) D+0.75(L+	⊧S) L						
Shear	6407 lb	1'5" 12021 lb	0.533 (5	3%) D+0.75(L+	+S) L						
LL Defl inch	0.033 (L/2343)	2'7 5/8" 0.161 (L/48	80) 0.205 (2	0%) 0.75(L+S)	L						
TL Defl inch	0.067 (L/1165)	2'8 7/8" 0.215 (L/36	60) 0.309 (3	1%) D+0.75(L+	+S) L						
Design Note	26					4					
	port to prevent lateral r	movement and rotat	on at the end	d bearings. Late	eral support	1					
may also be	required at the interior	r bearings by the bu	lding code.	5							
	designed to be suppor s must be fastened tog		• •	ile							
	ust be supported equa										
•	laterally braced at end										
	t be laterally braced at	•									
	derness ratio based on		Trib \\/; alth	Cida	Deed 0.0		Dec. 4 45	Wind 1 C Can	at 1.05 C		
ID	Load Type	Location	Trib Width		Dead 0.9		Snow 1.15	Wind 1.6 Con		omments	
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF		/ALL	
2	Tie-In	0-0-0 to 2-0-0	1-0-0	Тор	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF 2	ROOF	
3	Point	1-9-8		Тор	1040 lb	3115 lb	0 lb	0 lb	0 lb F	08	
	Bearing Length	0-3-8									
4	Point	2-0-0		Тор	2385 lb	0 lb	2385 lb	0 lb	0 lb C	3	
	Bearing Length	0-3-8									
ontinued on pag	ge 2										
Notes		chemicals		6. For f pondi	lat roofs provide pro	oper drainage to prever				. Reilly Road, Suite	#639
structural adequacy of	Designs is responsible only of the this component based on the	 I.VI. beams must not be 		pondi			Metsä Woo 301 Merritt	d 7 Building, 2nd Flooi	, USA	eville, NC	
lesign criteria and	loadings shown. It is the	 Refer to manufacture regarding installation 	rer's product i requirements,	multi-ply			Norwalk, C	T 06851	20314	4-TRUS	
	nt suitability of the intended	fastening details, bean	strength values,	and code			(800) 622-5 www.metsa	850 wood.com/us			
pplication, and to verify	y the dimensions and loads.	approvals									
umber . Dry service conditio	y the dimensions and loads. ns, unless noted otherwise ed with fire retardant or corrosive	 Damaged Beams must Design assumes top ed 	ge is laterally restra	ained					-		

	Client: Weaver Homes	Date:	12/2/2021	Page 2 of 2
	Project:	Input by		Fage 2 of 2
isDesign	Address: Gaston II (1810			
Window Hdr. Kerto-	SIVI 1 750" X 14 0	Project #		
	1 5			1'2"
1 SPF End Grain	2 SPE E	nd Grain		
	6'10"			3 1/2"
	6'10"			3 1/2
	010	I		
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 1. Dry service conditions, unless noted otherwise	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 L besign assumes top edge is laterally restrained	 For flat roofs provide proper drainage to prevent ponding 	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Comtech, 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 	 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)			CSD



2	•	Clien Proje		Homes		Date Input		2/2021 rshall Naylor				Page 1 of
is	Design	Addr		n II (181035B))			ston II (1810				
	-						ect #:					
6/0 SLID	DER Kerto-	-S LVL	1.750"	X 9.250"	2-Ply	- PASSE	ED Level:	Levei				
					3							
	2_											
-						2	-				Γ.M.	7 1
	- Win		-	Alter			- Min				XIX	9
14 mg	The second second				11	THE REAL PROPERTY AND INCOMENT					/ V	
1 SPF E	End Grain		6'7	1		2 SPF	End Grain	\rightarrow			-	3 1/2"
, 			6'7					\rightarrow			I	15 1/2
•			•									
Member Inf		F				Reactions						
Type: Plies:	Girder 2		Application: Design Method:	Floor ASD		Brg Directi 1 Vertica		Live 1060	Dead 1887	Snow 1113	Wind 0	Cor
Moisture Cond			Building Code:	IBC 2012		2 Vertica		1060	1887	1113	0	
Deflection LL:	480	1	Load Sharing:	No								
Deflection TL:		[Deck:	Not Checkee	d							
Importance:	Normal - II											
Temperature:	Temp <= 100°F					Bearings						
							an ath Di		Depet D/L	h Tatal		
						Bearing Le	-	•	React D/L I		Ld. Case	Ld. Com
						1 - SPF 3. End	.500" Ve	rt 34%	1887 / 162	9 3516	L	D+0.75(L
Analysis Res	sults					Grain						
Analysis		ocation Allow	ved Capa	city Comb.	Case	2 - SPF 3.	.500" Ve	rt 34%	1887 / 162	9 3516	L	D+0.75(L
Moment	5009 ft-lb	3'3 1/2" 1442	3 ft-lb 0.347	(35%) D+0.75(L	_+S) L	End Grain						
Unbraced	5009 ft-lb	3'3 1/2" 1045	1 ft-lb 0.479	(48%) D+0.75(L	_+S) L							
Shear	2387 lb	1' 3/4" 7943	lb 0.300	(30%) D+0.75(L	_+S) L							
LL Defl inch	0.042 (L/1741)	3'3 1/2" 0.153	3 (L/480) 0.276	(28%) 0.75(L+S	S) L							
TL Defl inch	0.091 (L/807)	3'3 1/2" 0.204	4 (L/360) 0.446	(45%) D+0.75(L	_+S) L							
Design Not	86					ſ						
	oport to prevent lateral	movement and	rotation at the	end bearings. La	teral support	1						
may also be	e required at the interio	or bearings by t	he building cod	e.								
	designed to be suppor es must be fastened to			otaile								
	nust be supported equa	- ·		etans.								
	e laterally braced at en	-										
	st be laterally braced at derness ratio based or	-										
ID	Load Type	Loca		th Side	Dead 0.9	Live 1	Snow 1.1	5 Wind	1.6 Const.	1 25 Co	mments	
1	Uniform	LOOD		Тор	108 PLF	322 PLF	0 PL			PLF F4		
	Uniform			•	120 PLF	0 PLF	0 PL					
2				Тор								
3	Uniform			Тор	338 PLF	0 PLF	338 PL		PLF (PLF A4		
	Self Weight				7 PLF							
Notes		chemicals		6. For	flat roofs provide p	oper drainage to pre-	event Manu	facturer Info		Comtech	Inc. Reilly Road, Suite #	#630
Calculated Structured	Designs is responsible only of the	e Handling & Ir		pon	ding		Metsä		a Ond Eli	Fayettevi USA	le, NC	-000
design criteria and	of this component based on the loadings shown. It is the sustomer and/or the contractor to	e 2. Refer to m	st not be cut or drilled nanufacturer's production stallation requirement	information			Norwa	erritt 7 Buildin Ik, CT 06851	g, 2nd Floor	28314 910-864-	TRUS	
ensure the compone	ent suitability of the intended ify the dimensions and loads.		stallation requirement ils, beam strength value	is, muiti-ply les, and code			(800)	622-5850 netsawood.co	m/us	10 004		
Lumber		Damaged Bear	ms must not be used es top edge is laterally r	estrained			<u>www.r</u>	netsaw000.00	<u>/uə</u>			
 Dry service condition IVI not to be treat 	ons, unless noted otherwise ted with fire retardant or corrosive	Provide latera	I support at bearing perment and rotation	oints to avoid	is design is valid	until 11/2/2024				C	OMT	есн
2. 272 1101 10 00 11001												



CSD 🞆

