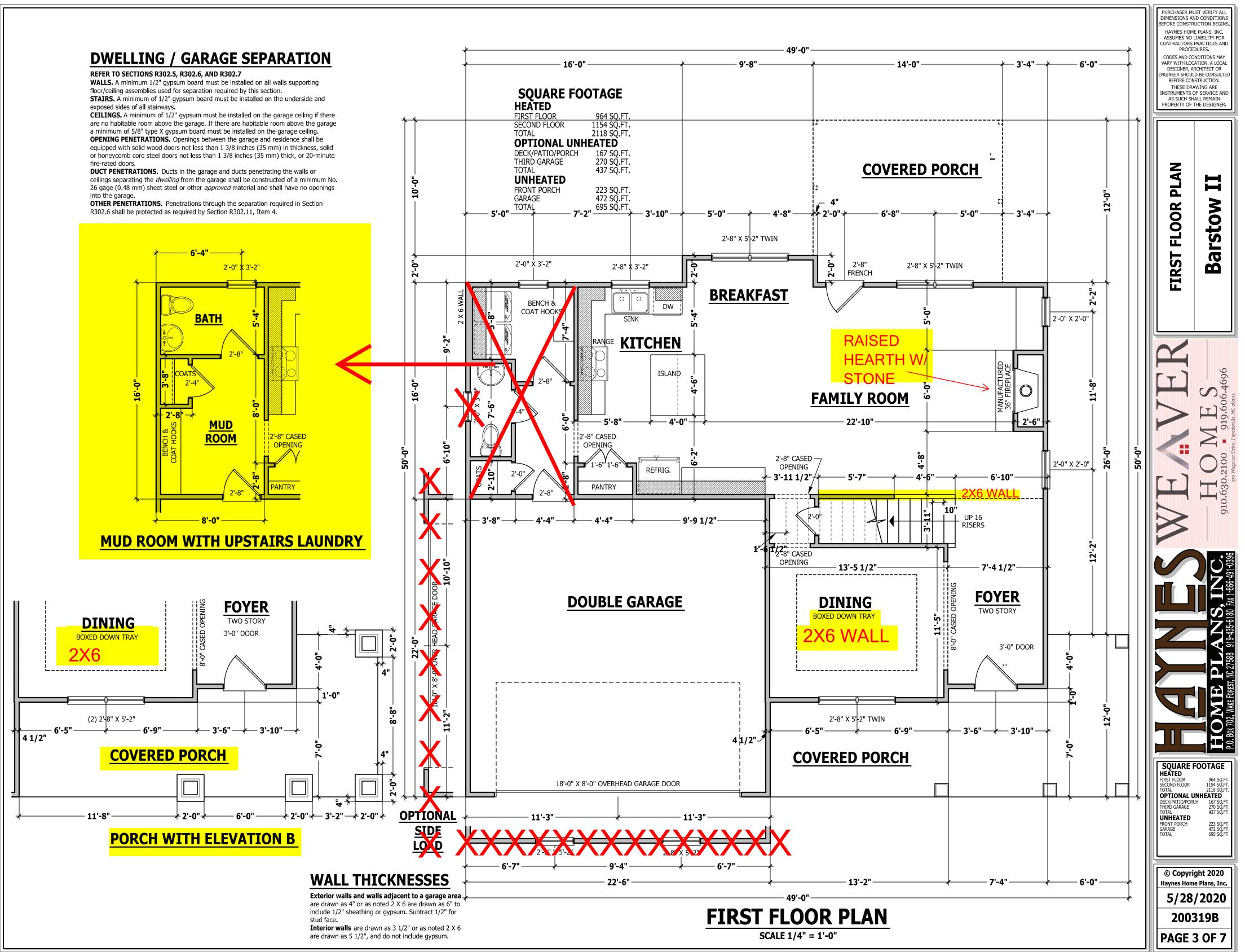


Barstow Inc\200510B Barstow II\200510B Z:\Builder\Weaver

Company, Ð Dev



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.

•	5		
DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10		L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360
Snow	20		

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

ENGINEERED WOOD BEAMS:

Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x10⁶ PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

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

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.

DINING

BOXED DOWN TRAY

, Laaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

(2) 2 X 12

2 JACKS EACH END

(3) 2 X 10

(2) 2 X 8

(2) 2 X 10

(4) SC

COVERED PORCH

2X6

(8) SC

(6) SC

(2) SC

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.

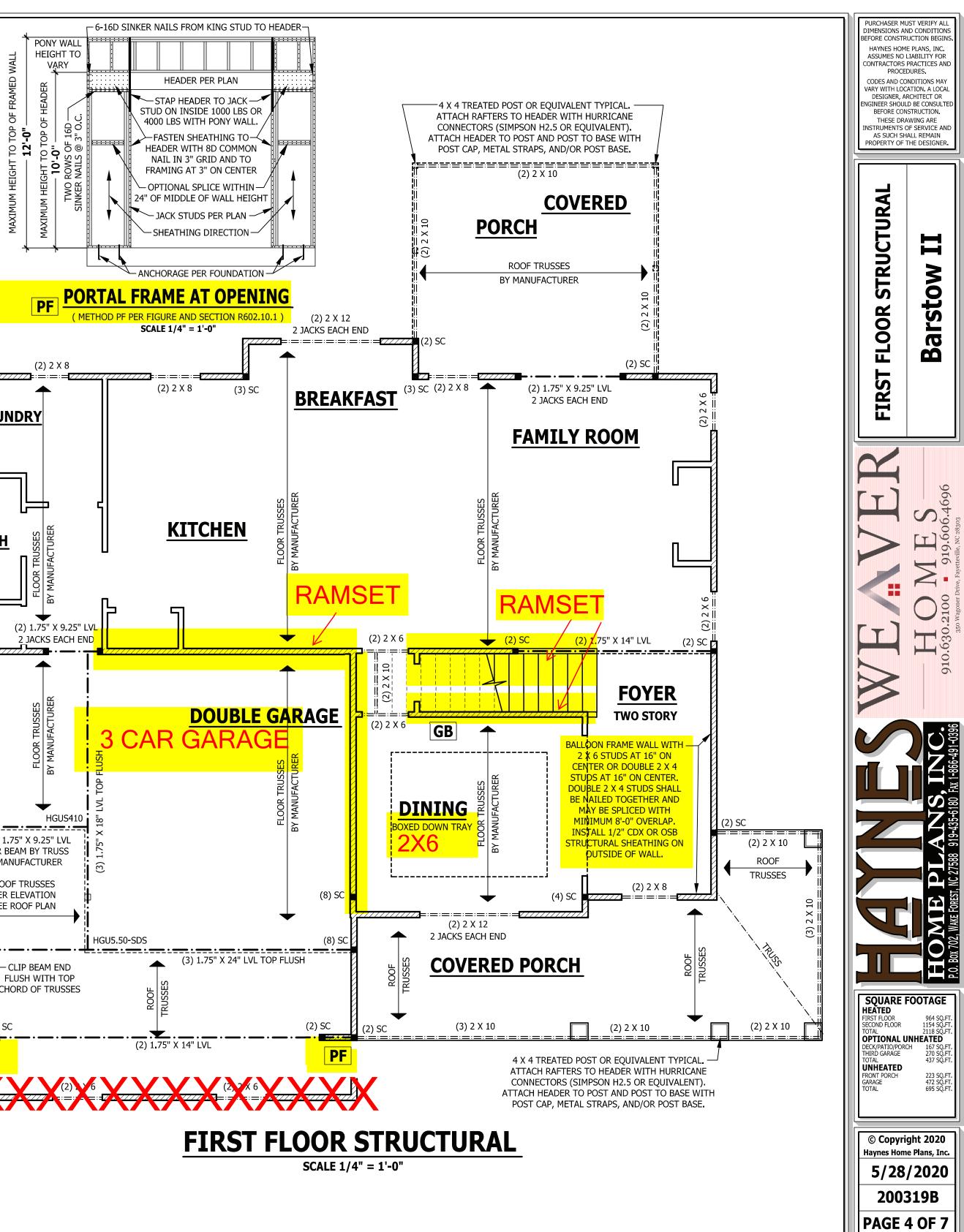
GYPSUM: All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

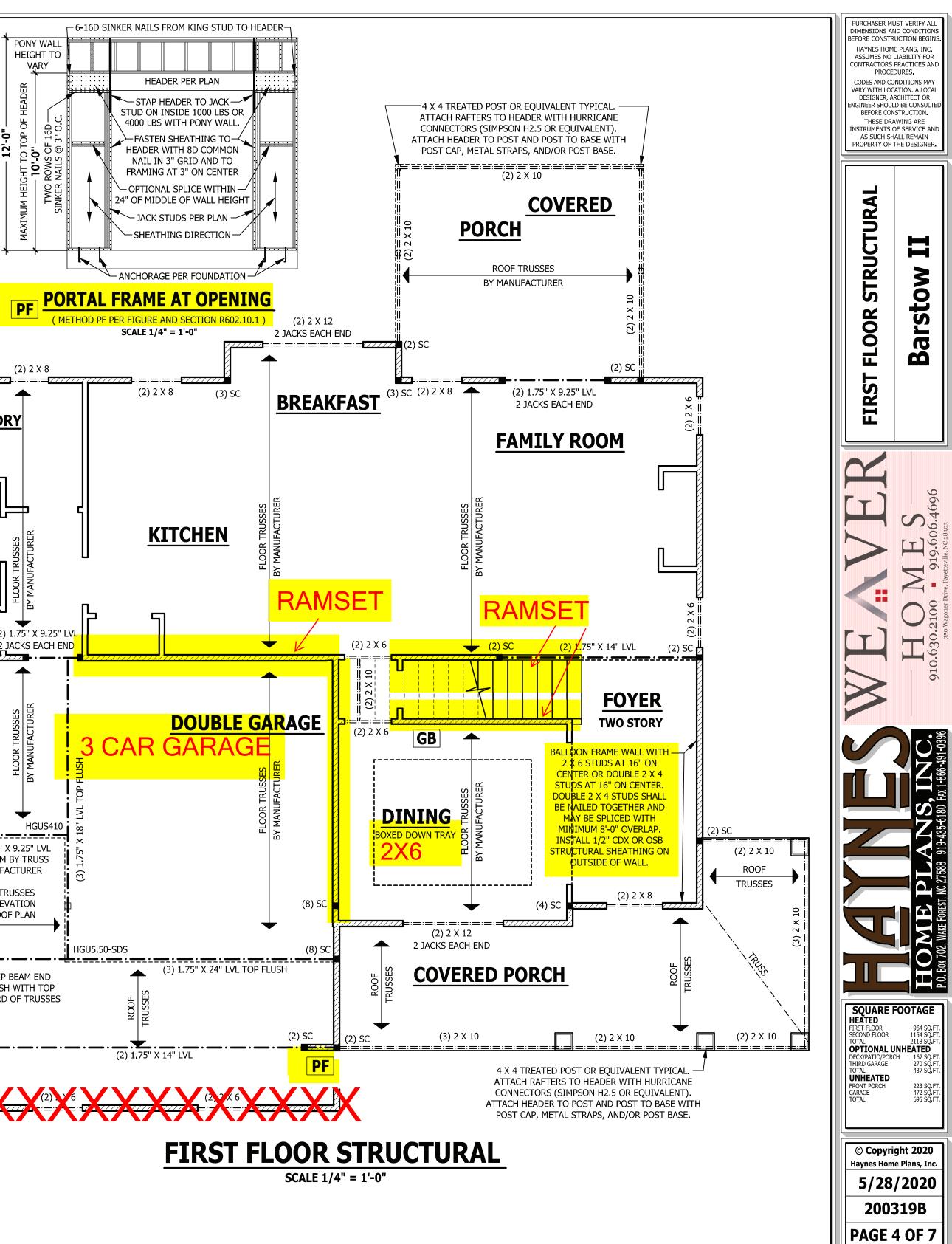
REQUIRED LENGTH OF BRACING: Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length. HD: 800 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 $1 \frac{1}{2}$ 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 LAUNDRY **EXTERIOR HEADERS** - (2) 2 X 6 WITH 1 JACK STUD EACH END BATH i ک **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 (4) SC FOYER (4) SC (2) SC (2) 1.75" X 9.25" LVL (2) 2 X 10 OR BEAM BY TRUSS ROOF MANUFACTURER TRUSSES ROOF TRUSSES PER ELEVATION SEE ROOF PLAN (8) SC CHORD OF TRUSSES (8) SC PF (2) 2 X 10 (2) SC ////•/4 PF 4 X 4 TREATED POST OR EQUIVALENT TYPICAL, — **OPTIONAL** PLACE BEAM OVER BEARING ATTACH RAFTERS TO HEADER WITH HURRICANE PROVIDED BY COLUMN(S) SIPE CONNECTORS (SIMPSON H2.5 OR EQUIVALENT). AND FURR BEAM AS DESIRED ATTACH HEADER TO POST AND POST TO BASE WITH LOND POST CAP, METAL STRAPS, AND/OR POST BASE. **PORCH WITH ELEVATION B**

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DESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
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ROOF TRUSS REQUIREMENTS

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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.

 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.

EXTERIOR HEADERS

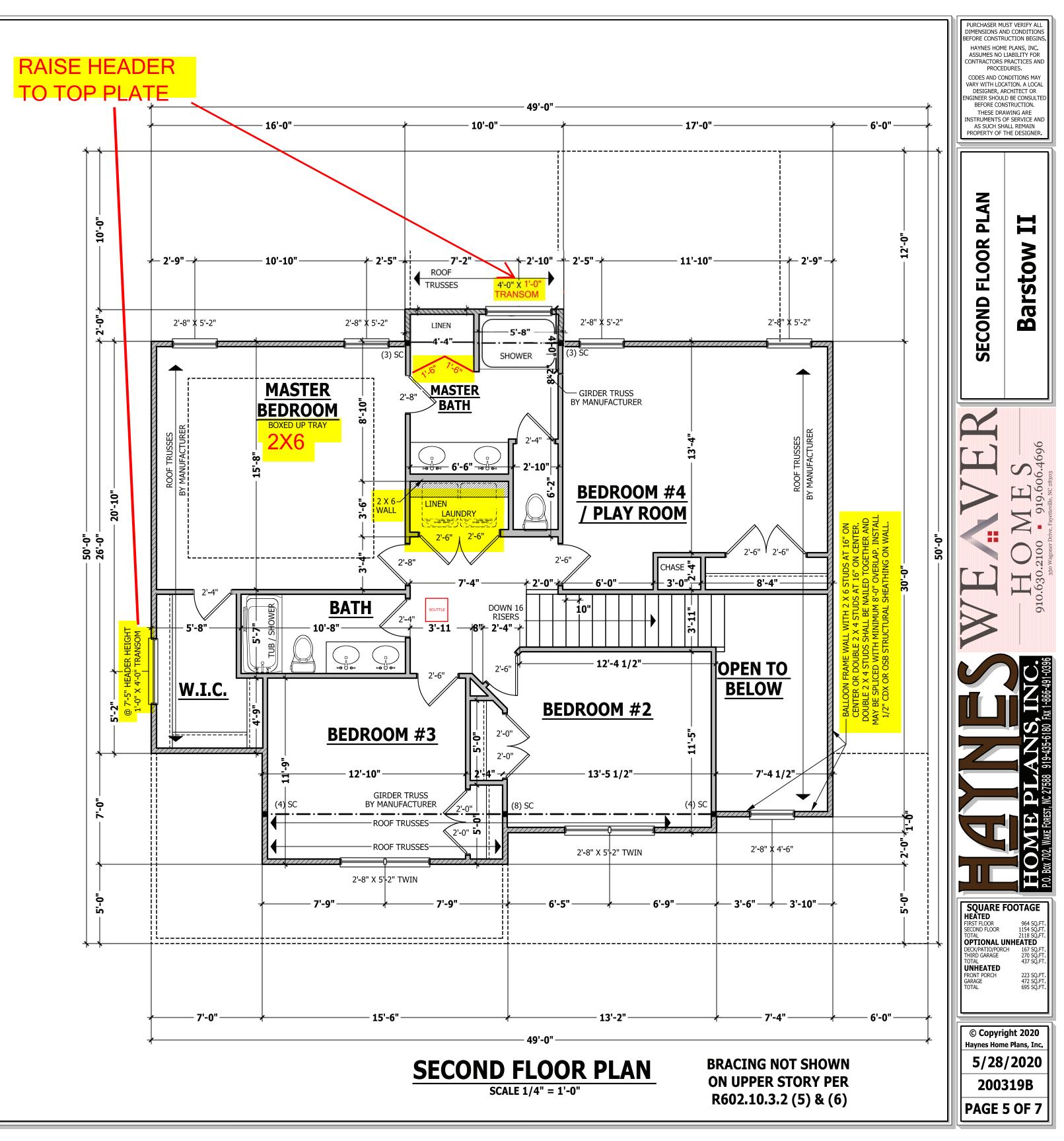
- (2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE - KING STUDS EACH END PER TABLE BELOW

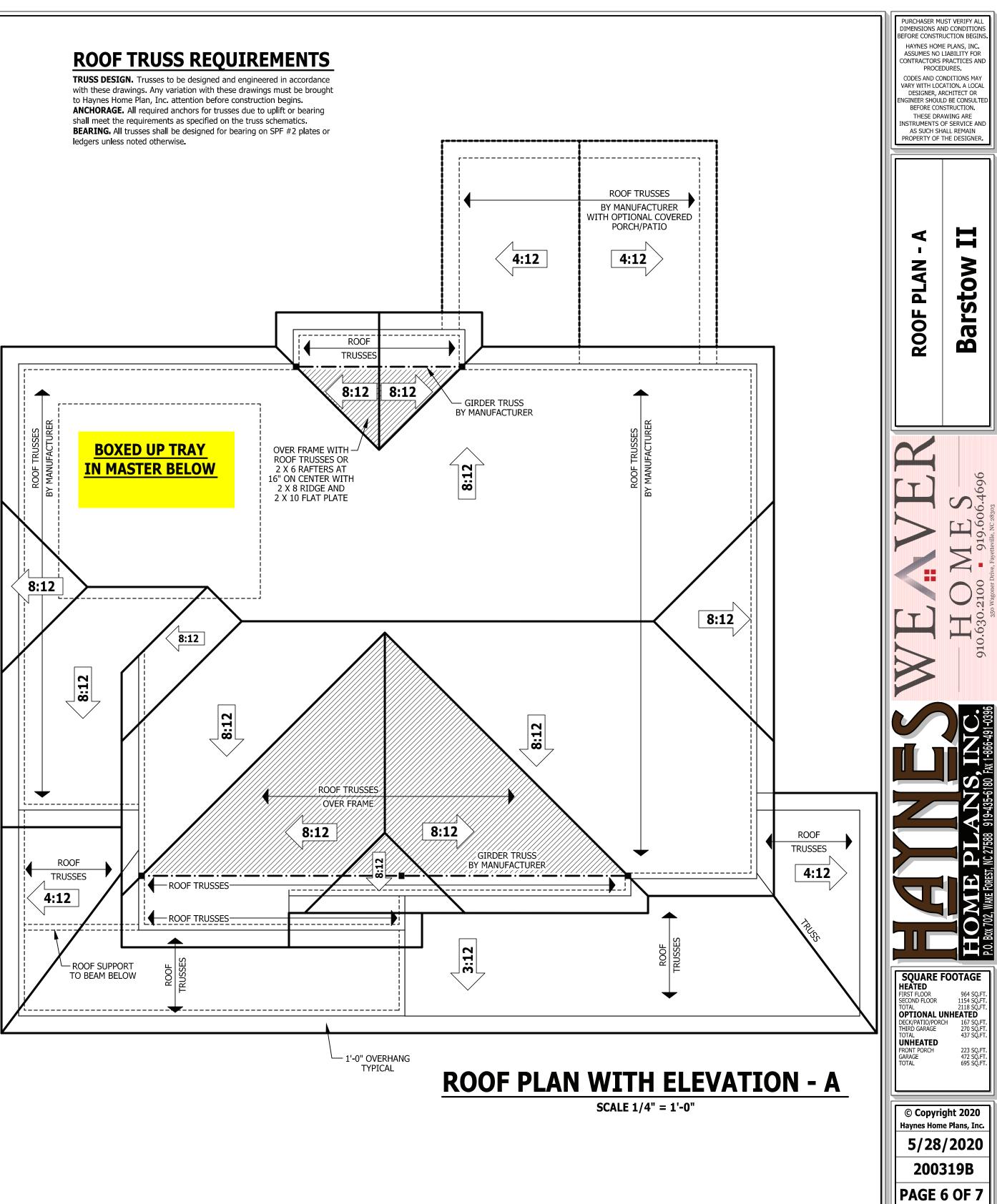
 HEADER SPAN
 < 3'</th>
 3'-4'
 4'-8'
 8'-12'
 12'-16'

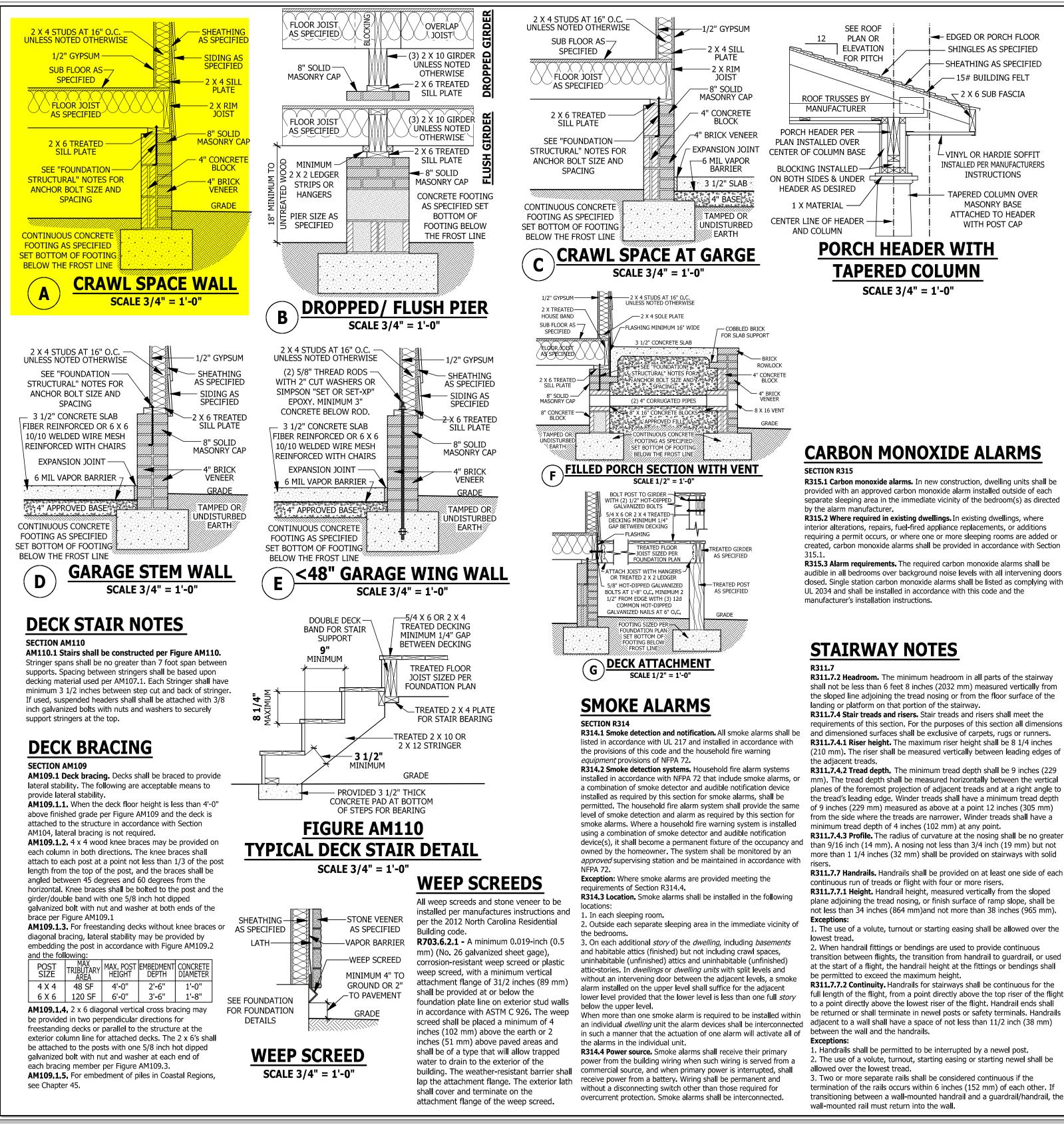
 KING STUD(S)
 1
 2
 3
 5
 6

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







created, carbon monoxide alarms shall be provided in accordance with Section R315.3 Alarm requirements. The required carbon monoxide alarms shall be

closed. Single station carbon monoxide alarms shall be listed as complying with

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

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

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

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

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

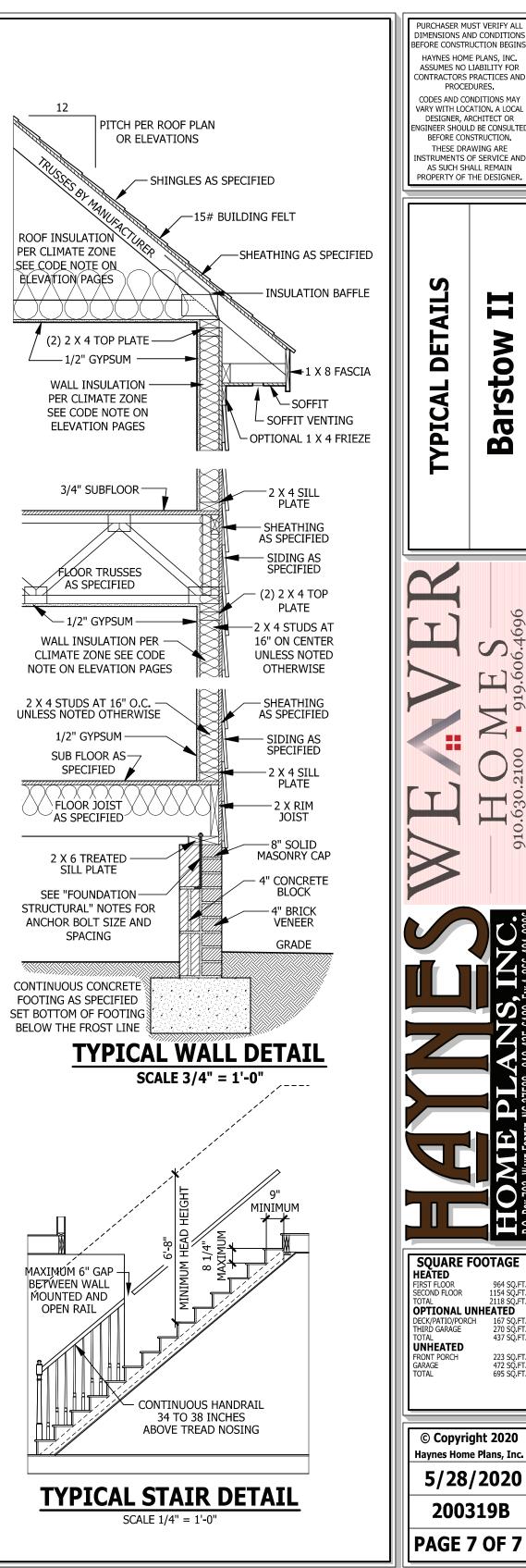
plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm)and not more than 38 inches (965 mm).

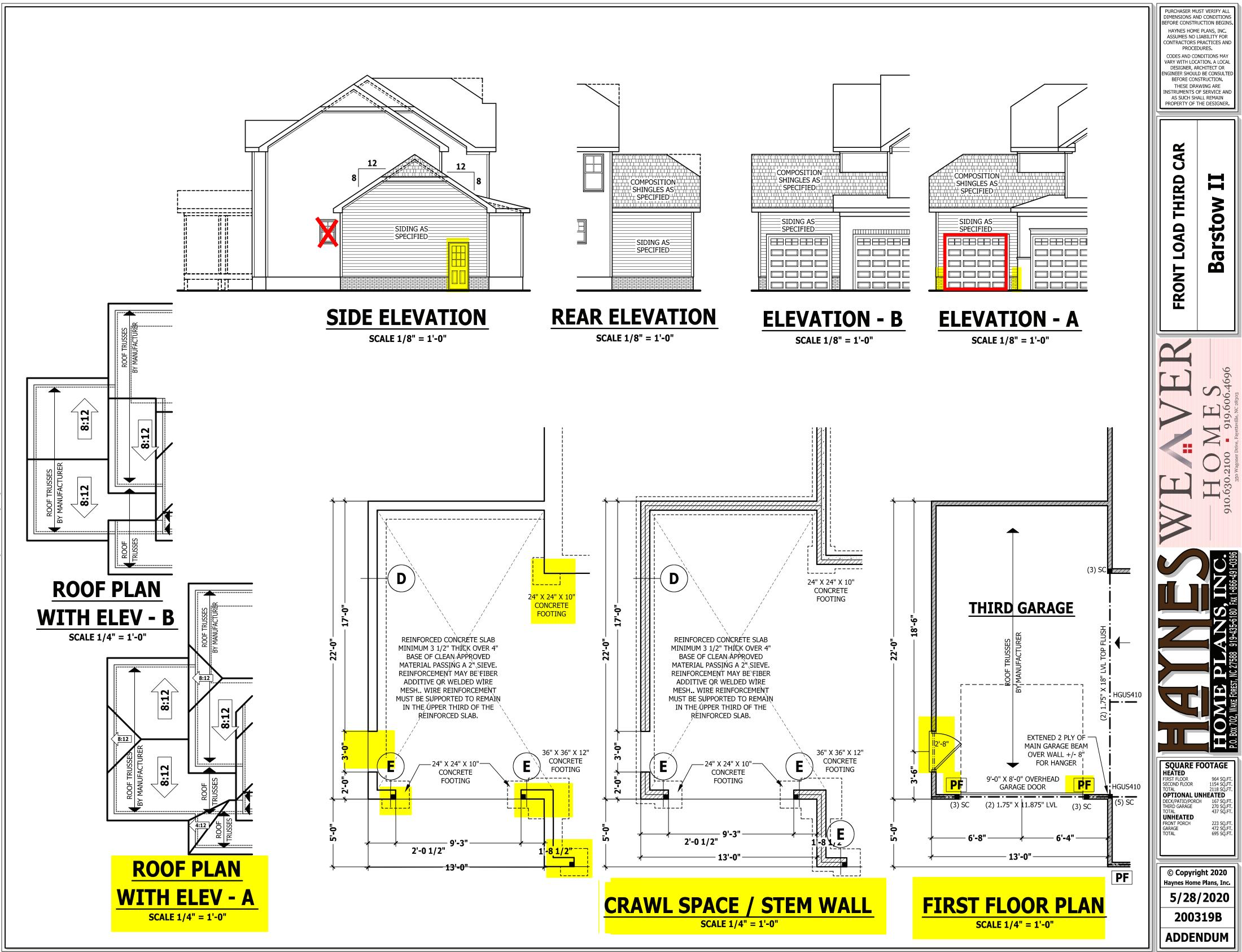
transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall

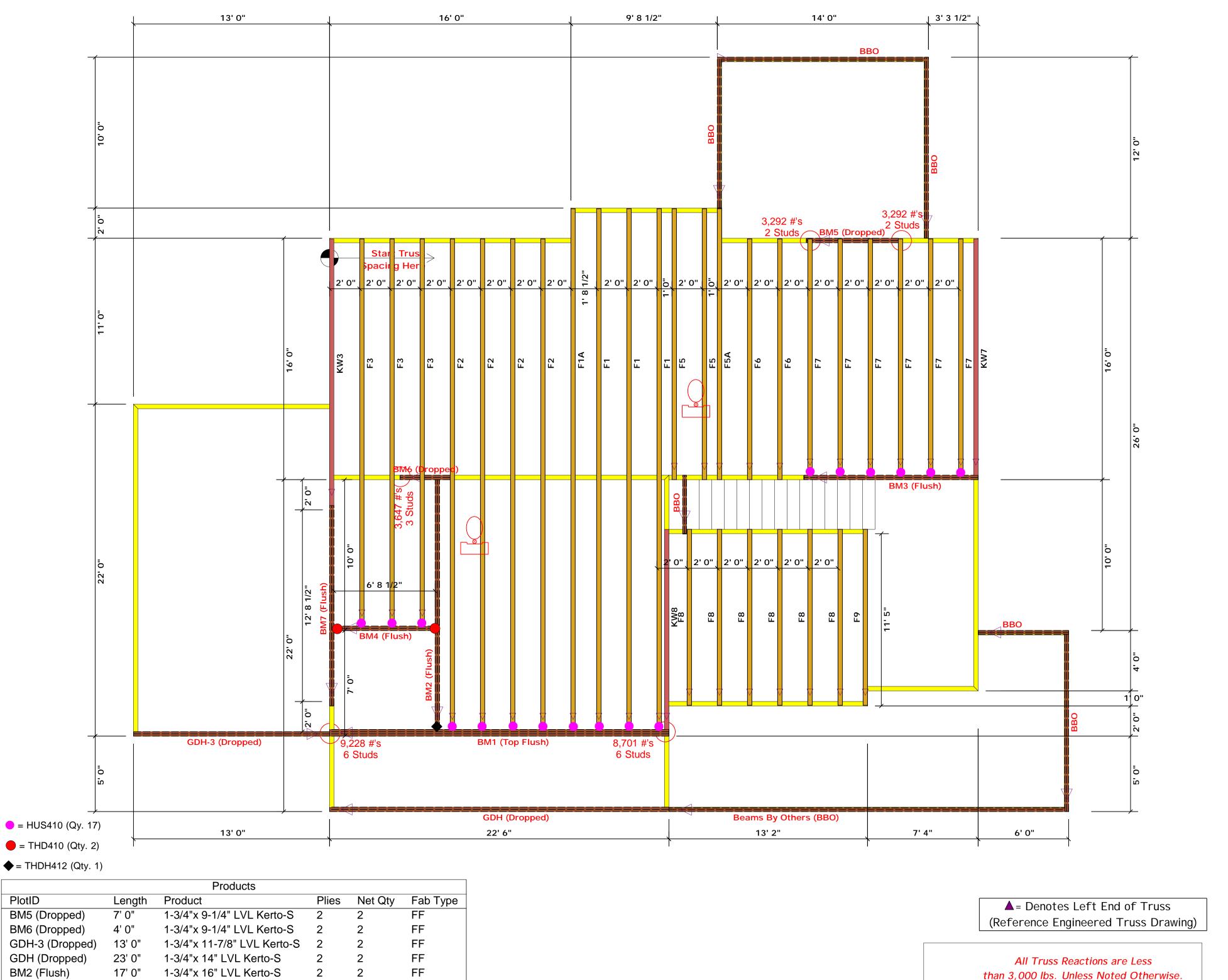
full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails

2. The use of a volute, turnout, starting easing or starting newel shall be

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







		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM5 (Dropped)	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM6 (Dropped)	4' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH-3 (Dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
GDH (Dropped)	23' 0"	1-3/4"x 14" LVL Kerto-S	2	2	FF
BM2 (Flush)	17' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM7 (Flush)	14' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM3 (Flush)	12' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM4 (Flush)	7' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
BM1 (Top Flush)	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF

<u>Truss Placement Plan</u> SCALE: 1/4" = 1'-0"

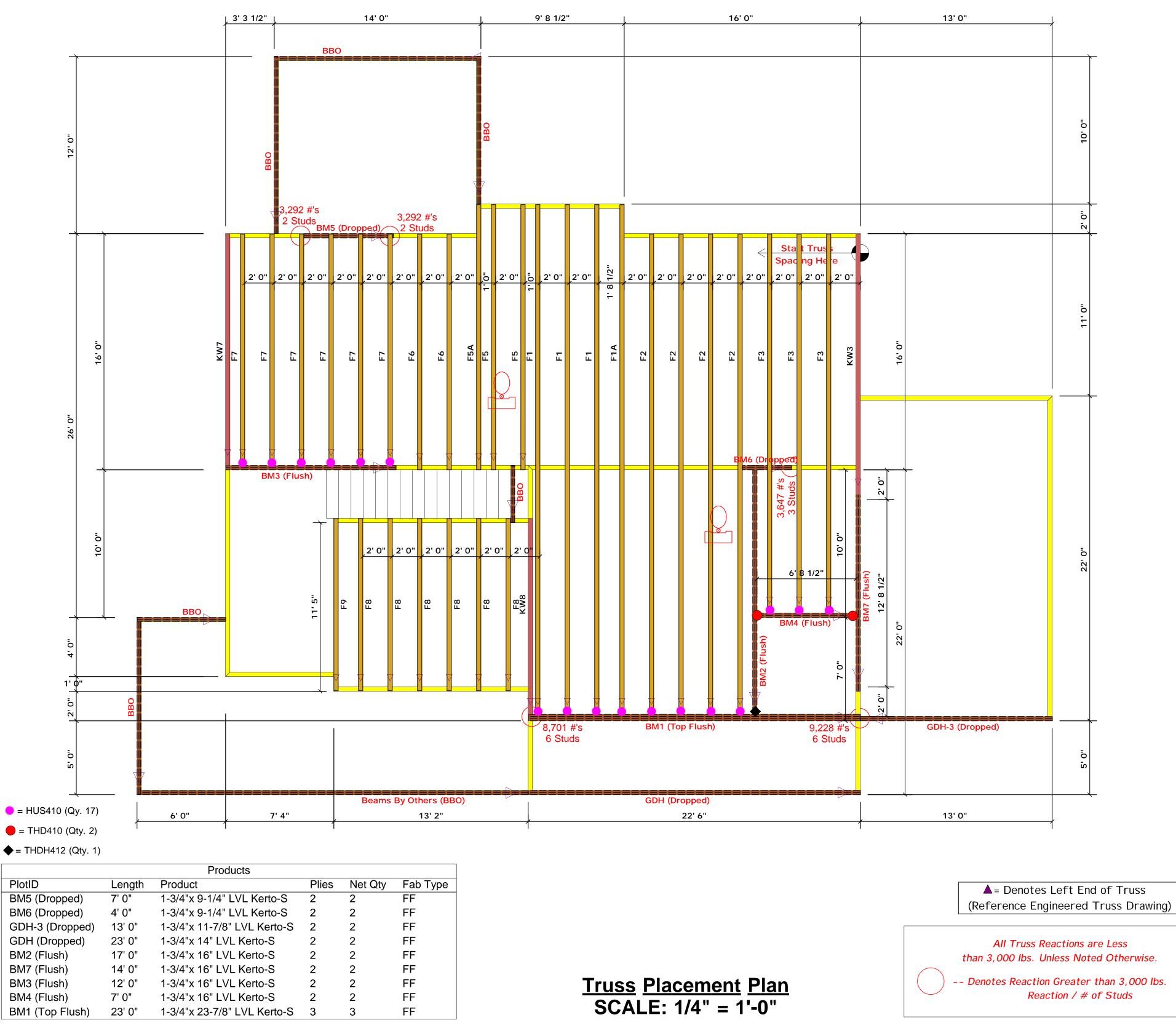
TRUSSES & BEAMS Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444 earing reactions less than or equal to 3000# are iemed to comply with the prescriptive Code quirements. The contractor shall refer to the tached Tables (derived from the prescriptive Cod quirements) to determine the minimum foundatic ze and number of wood studs required to support actions greater than 3000# but not greater than 3000#. A registered design professional shall be tained to design the support system for any action that exceeds those specified in the attache ables. A registered design professional shall be tained to design the support system for all beatined to design the support system for all beating the support s Christine Shivy Christine Shivy LOAD CHART FOR JACK STUDS (BASED ON TABLES ROOLS(1) Δ (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER END REACTION (UF TO) REQ'D STUDS FOR (3) ALY HEADER END REACTION (UP TO) REQUESTUDE FOR (2) PLY HEADER END REACTION (UP TO) REQ15 STUDS FOR (4) FLY HEADER 1700 1 3400 1 2550 1 3400 2 6800 2 5100 2 5100 3 7650 3 10200 3 6800 4 10200 4 13600 4 8500 5 12750 5 17000 5 10200 6 15300 6 11900 7 13600 8 15300 9 Lillington / Harnett Christine Shivy Grameta Lane Lenny Norris Floor $\overline{}$ $\overline{}$ DRAWN BY SALES REP. CI TY / CO. DATE REV. ADDRESS MODEL Weaver Development Car \mathcal{C} "A nn Quij Barstow II J1221-6807 Seal Date # Ō Quote ; Lot 8 SEAL DATE NAME # **BUI LDER** QUOTE # PLAN JOB JOB THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. 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 <u>truss delivery package or online @ sbcindustry.com</u>

-- Denotes Reaction Greater than 3,000 lbs.

Reaction / # of Studs

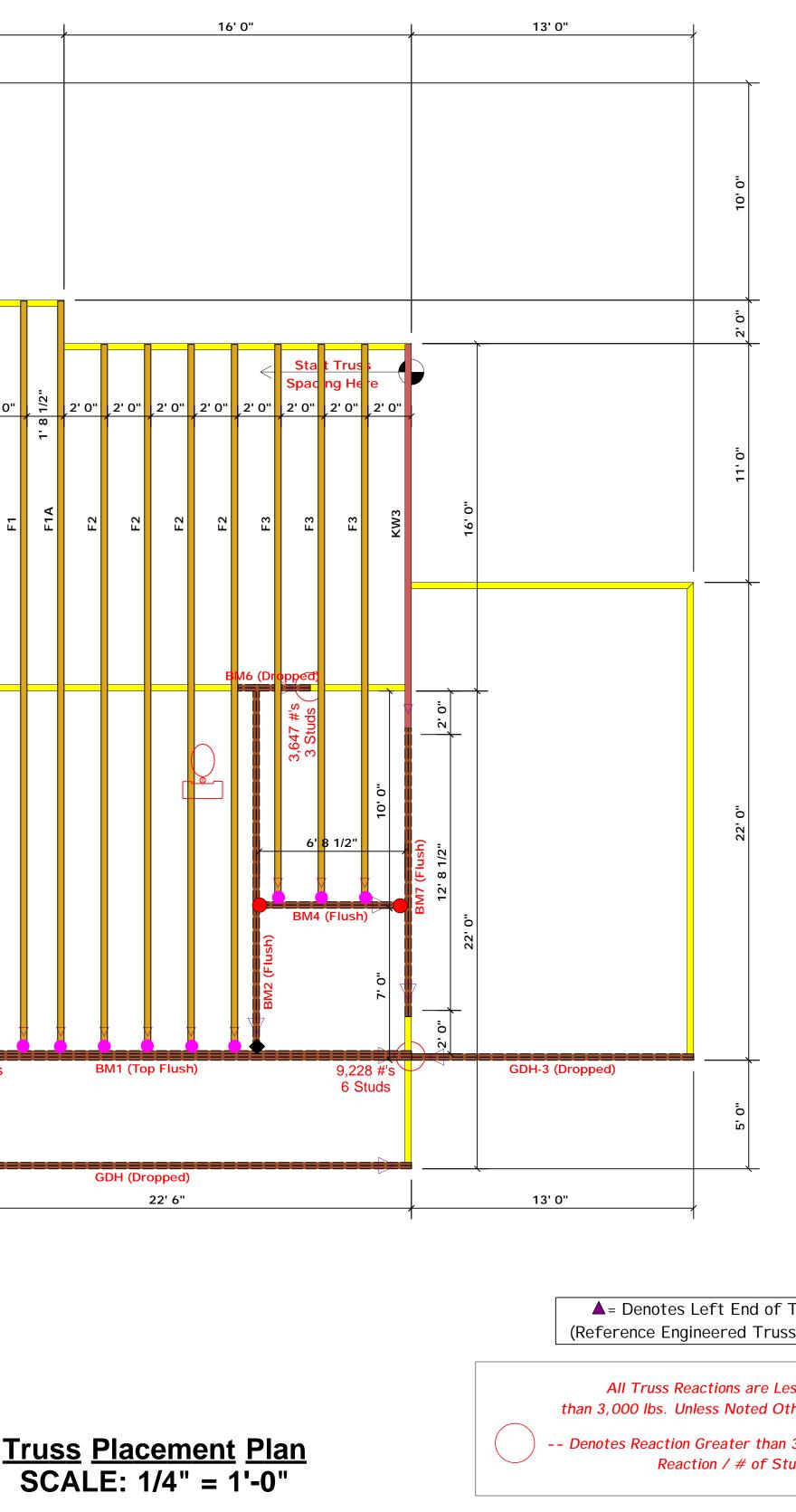
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ROOF & FLOOR

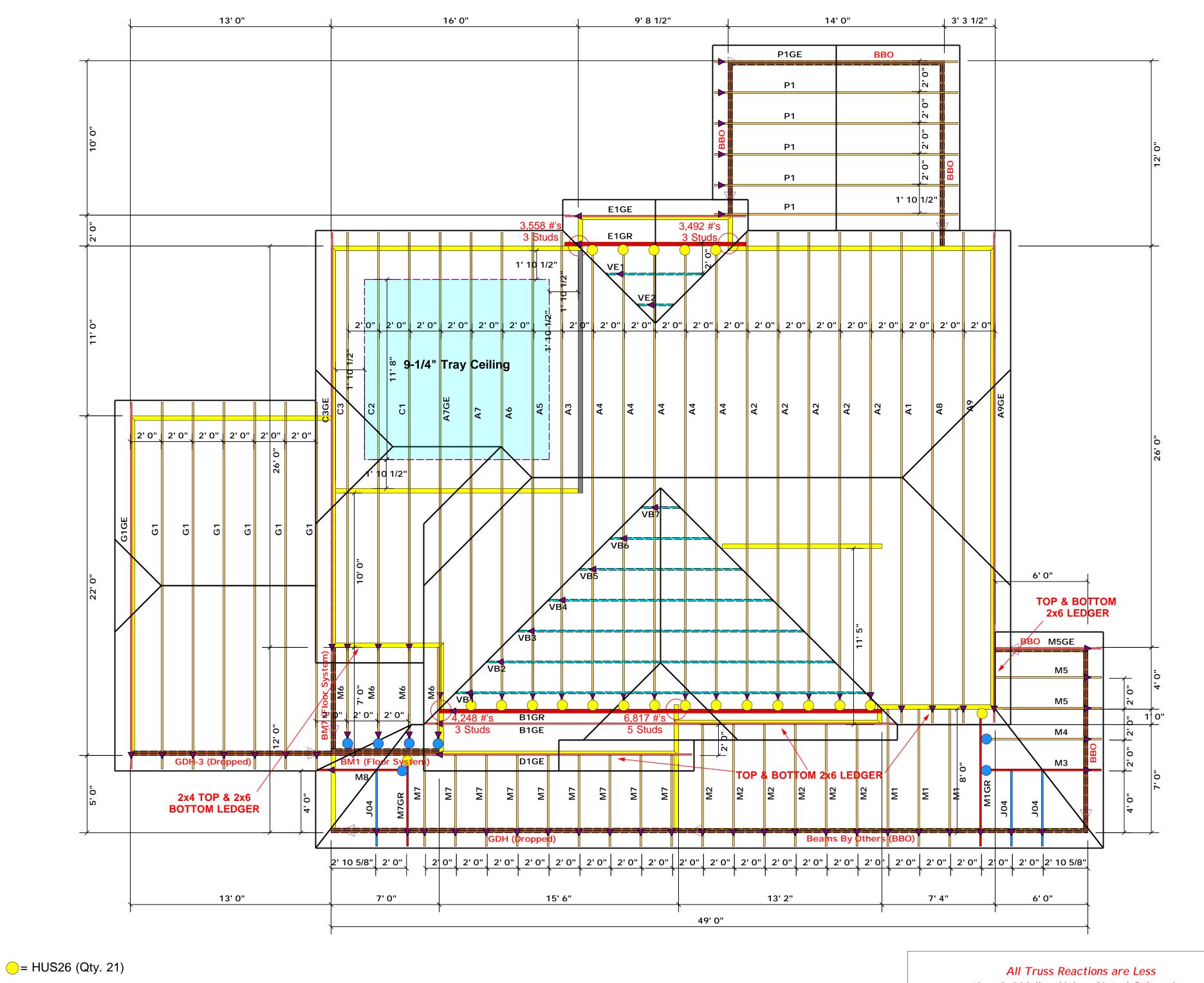


◆ = THDH412 (Qty. 1)

		Products			
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM5 (Dropped)	7' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
BM6 (Dropped)	4' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2	FF
GDH-3 (Dropped)	13' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2	FF
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BM2 (Flush)	17' 0"	1-3/4"x 16" LVL Kerto-S	2	2	FF
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BM1 (Top Flush)	23' 0"	1-3/4"x 23-7/8" LVL Kerto-S	3	3	FF



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NUM NO (0, 40) 1700 3400 5100 6800 8500 10200 11900 13600 15300		ck stubs	2 3 4 5 5		8309-341 Alls (3) 801-30114 (3) 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CI TY / CO. Lillington / Harnett	Grameta Lane	Floor	//	DRAWN BY Christine Shivy	SALES REP. Lenny Norris
CI TY / CO.	ADDRESS	MODEL	DATE REV. / /	DRAWN BY	SALES REP.
Weaver Development	JOB NAME Lot 8 O'Quinn	Barstow II "A" 3 Car	E Seal Date	Quote #	J1221-6807
BUI LDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
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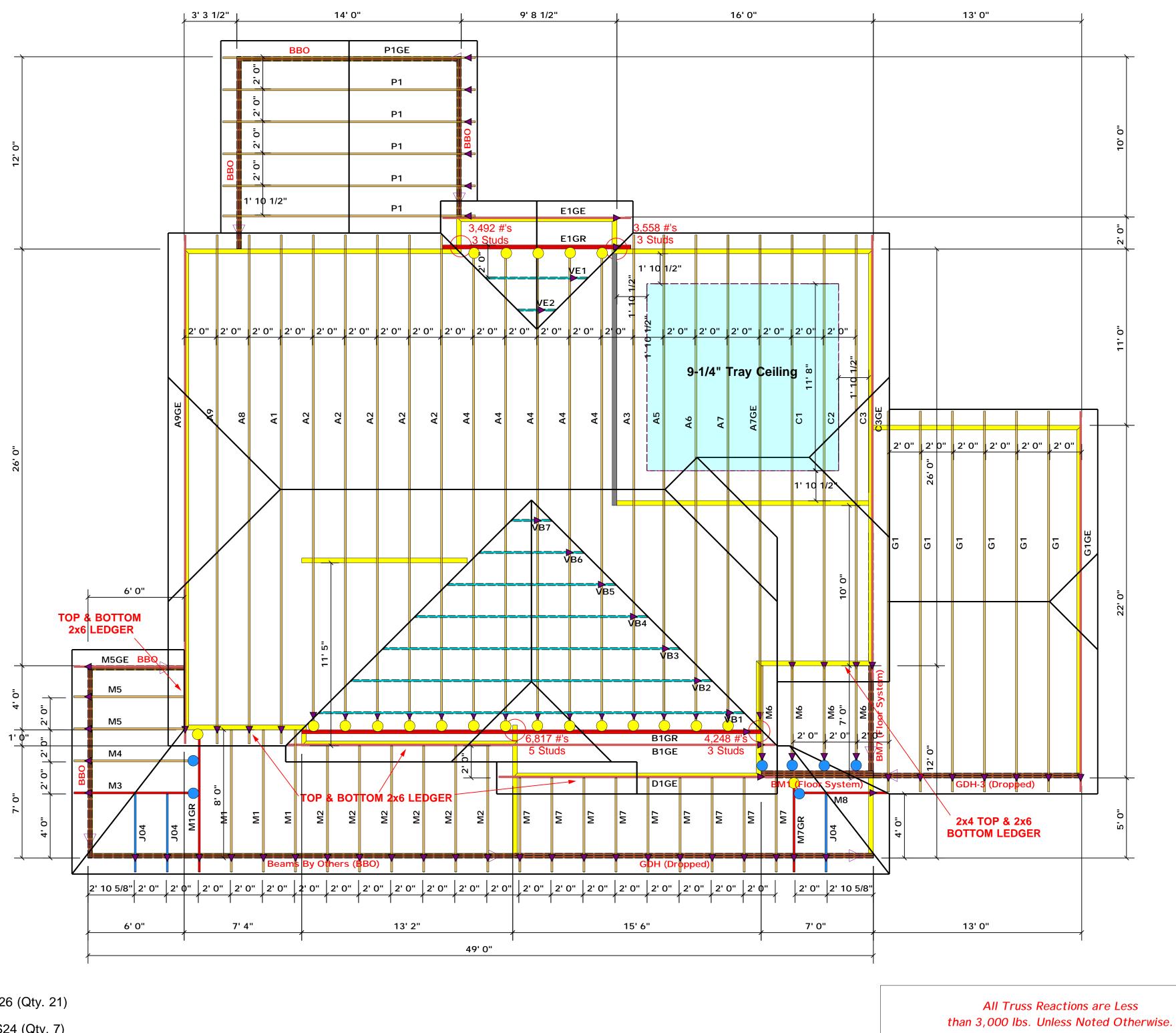
= JUS24 (Qty. 7)

▲ = Denotes Left End of Truss (Reference Engineered Truss Drawing) <u>Truss Placement Plan</u> SCALE: 1/4" = 1'-0"

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CI TY / CO. Lillington / Harnett	Grameta Lane	Roof	/ /	DRAWN BY Christine Shivy	SALES REP. Lenny Norris					
сі ТҮ / со.	ADDRESS	MODEL	DATE REV. / /	DRAWN BY	SALES REP.					
BUI LDER Weaver Development	JOB NAME Lot 8 O'Quinn	PLAN Barstow II "A" 3 Car	SEAL DATE Seal Date	QUOTE # Quote #	JOB # J1221-6806					
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than 3,000 lbs. Unless Noted Otherwise.

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



_ = HUS26 (Qty. 21)

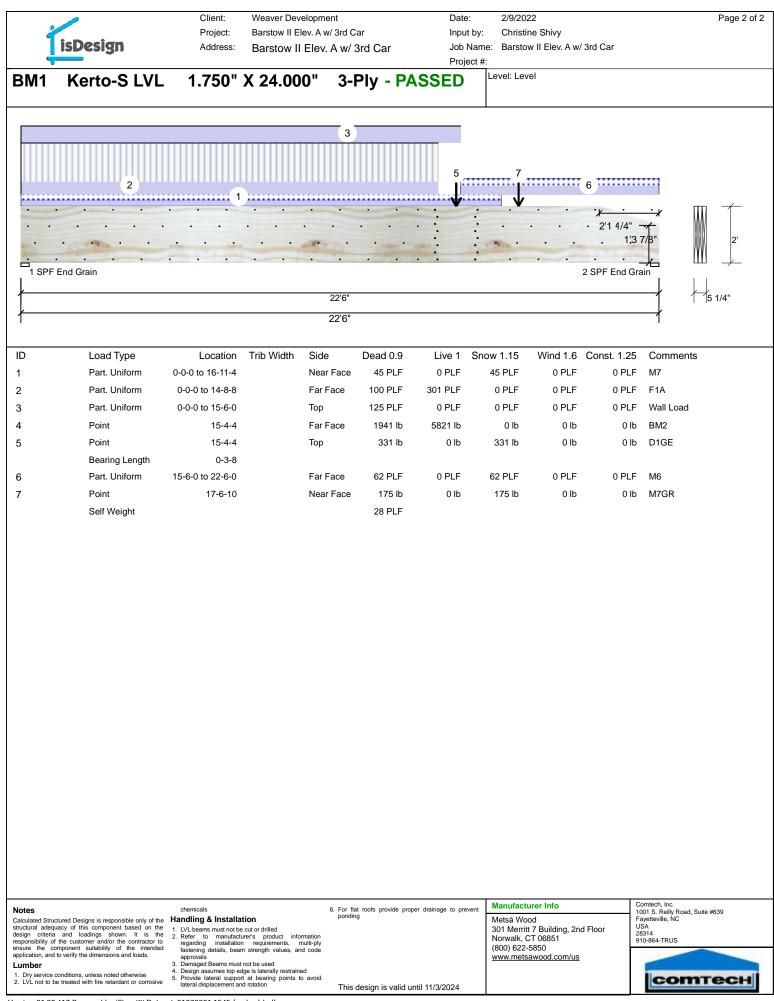
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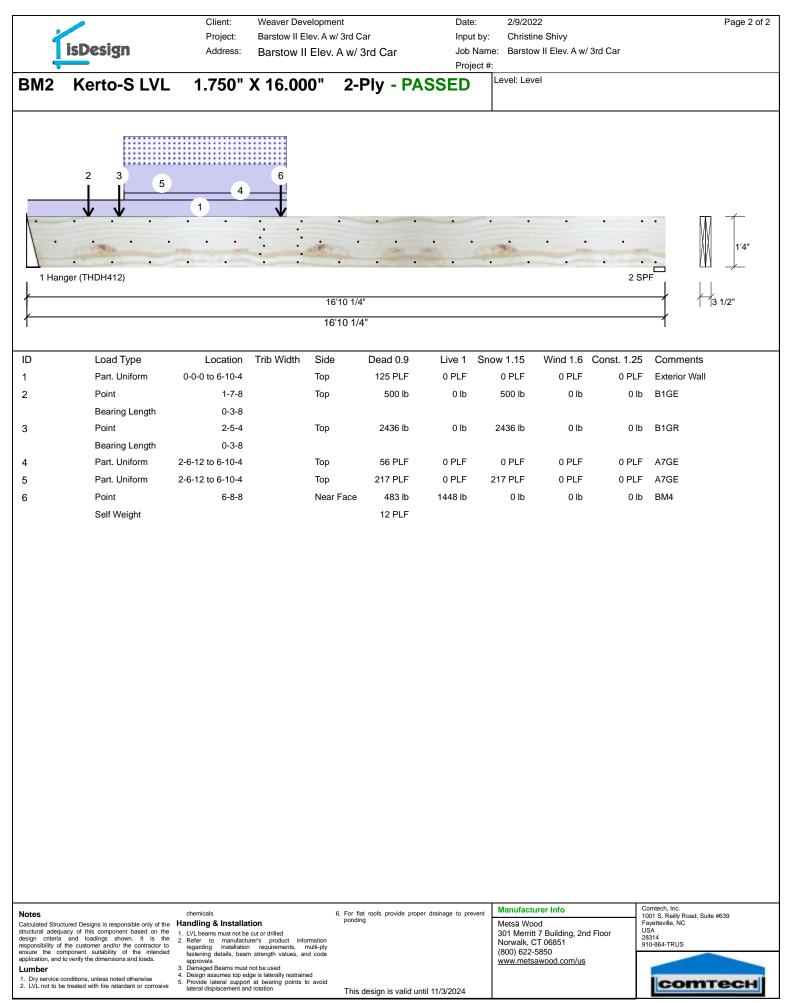
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R	TRUSSES & BEAMS Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444								
deemed requirem attached requirem size and reaction 15000#. retained reaction Tables. retained	to compl nents. The Tables (nents) to number s greater A register to design that exce A register	y with the e contract derived f determin of wood s than 3000 red design the supp eds thos ed design the supp	n or equal prescrip tor shall r rom the p e the min studs requ 0# but not n profess port syste e specifie n professi oport syste 0#.	tive Code efer to the rescriptiv imum fou uired to s greater t ional shal m for any d in the a onal shal	e ve Code indation upport han II be / ttached				
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CI TY / CO. Lillington / Harnett	Grameta Lane	Roof	//	DRAWN BY Christine Shivy	SALES REP. Lenny Norris				
CI TY / CO.	ADDRESS	MODEL	DATE REV. / /	DRAWN BY	SALES REP.				
Weaver Development	Lot 8 O'Quinn	Barstow II "A" 3 Car	Seal Date	Quote #	J1221-6806				
BUI LDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #				

Printer)	Client:	Weaver Development	t	Date:	2/9/2022				Page 1 of 2
EMI Kerto-S LVL 1.750" X 24.000" 3-Ply - PASSED Lett.letd Intel.text Intel.text Intel.text Intel.text Intel.text Intel.text Intel.text Intext Intel.text Inte	lic	Docign	-					-			
BM1 Kerto-S LVL 1.750" X 24.000" 3-PIy - PASSED Level Lovel	ISL	- -	Address:	Barstow II Elev. A	w/ 3rd Car			ev. A w/ 3rd Car			
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228' Wember Information Sections UNPATTERNED Ib (Uplift) Type: Girder Ples: 3 Moitaute Condition: bry Defection L: 480 Defection L:: Building Code: IBC/IRC 2015 Load Sharing: Yes Defection L:: 480 Defection L:: Building Code: IBC/IRC 2015 Load Sharing: Yes Defection L:: 480 Defection L:: Building Code: IBC/IRC 2015 Load Sharing: Yes Defection L:: 480 Defection L:: Building Code: IBC/IRC 2015 Load Sharing: Yes Analysis Results		a fain		and the second s			A MARK			W	2
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Member Information Provide support and the second	<u>/</u>			22	2'6"						1/4"
Member Information Reactions UNPATTERNED Ib (Uplift) Type: Ginder Application: Floor Deletion Live Design Method: ASD Moisture Condition: Dry Design Method: ASD Deletion TL: 800 Hinding Code: IBC/RC 2015 Deletion TL: 800 Desi: Not Checked Importance: Normal -II Desi: Nor Checked Mendature: Tmp = 100°F Desi: Nor Checked Analysis Actual Location Allowed Capacity Comb. Case Analysis Actual Location Allowed Capacity Comb. Case Moment 61310 ft-b 146 5/16° 114190 ft/li 0.337 (374%) D+L L Hurbraced 61310 ft-b 146 5/16° 14149 ft/li 0.337 (374%) D+L L L1Del Inch 0.238 (Jass) 1111110° (Jass (Jass) 0.337 (374%) D+L L L1Del Inch 0.238 (Jass) 1111110° (Jass (Jass) 0.331 (374%) D+L L L1Del Inch 0.238 (Jass) 1111110° (Jass (Jass) 0.331 (374%) D+L L L1Del Inch 0.238 (Jass) 11111110° (Jass (, , , , , , , , , , , , , , , , , , , ,	., .
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5 Simpson fasteners applied from a single side of the member use tip values where published. 6 Notches in LVL are in accordance with APA Form No. EWS G535, Figure 1. 7 Girders are designed to be supported on the bottom edge only. 8 Top loads must be supported equally by all plies. 9 Top must be laterally braced at a maximum of 4'3 3/16" o.c. 10 Bottom must be laterally braced at end bearings. 11 Lateral slenderness ratio based on single ply width. Memory and the control of the someoneshe only of the someoneshe only of the someoneshe only of the customer and or the custor drilled Calculated Structured Designs is responsible only of the someoneshe only of the customer and loadings shown. It is the situation decustor frame manufacturer's product information expension statistics or equivements, multiply 6. For flat roots provide proper drainage to prevent provide prop		d load fastener specificat	on is in addition	to hanger fasteners if a	hanger is						
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9 Top must be laterally braced at a maximum of 4'3 3/16" o.c. 10 Bottom must be laterally braced at end bearings. 11 Lateral slenderness ratio based on single ply width. 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 (b) 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply 1. UL beams must not be cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 2. Refer to manufacturer's product information 1. Setting the cut or drilled 3. Setting the cut or drill											
10 Bottom must be laterally braced at end bearings. 11 Lateral slenderness ratio based on single ply width. Notes • hemicals • hemicals • hemicals • handling & Installation • hubble •											
Notes chemicals 6. For flat roots provide proper drainage to prevent ponding Manufacturer Info Comtech, Inc. Calculated Structured Designs is responsible only of the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor (o) regarding installation reguirements, multi-ply 6. For flat roots provide proper drainage to prevent ponding Manufacturer Info Comtech, Inc. Metsä Wood Fayetteville, NC USA Fayetteville, NC USA Vorter and loadings I. LVL beams must not be cut or drilled 2814 USA USA Refer to regarding installation Information regarding installation requirements, multi-ply Norwalk, CT 06851 910-864-TRUS		-		0.0.							
Notes 6. For flat roots provide proper drainage to prevent Inditiductation 1001 S. Relity.Rood, Suite #639 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 (o) regarding installation requirements, multi-ply 6. For flat roots provide proper drainage to prevent ponding Metsä Wood 1001 S. Relity.Rood, Suite #639 Visit 1. U/L beams must not be cut or drilled 1. U/L beams must not be cut or drilled 301 Merrit 7 Building, 2nd Floor USA Visit 2. Refer to regarding installation requirements, multi-ply Information Norwalk, CT 06851 910-864-TRUS	11 Lateral slend	erness ratio based on sir	ngle ply width.								
Notes 6. For flat roots provide proper drainage to prevent Inditiductation 1001 S. Relity.Rood, Suite #639 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 (o) regarding installation requirements, multi-ply 6. For flat roots provide proper drainage to prevent ponding Metsä Wood 1001 S. Relity.Rood, Suite #639 Visit 1. U/L beams must not be cut or drilled 1. U/L beams must not be cut or drilled 301 Merrit 7 Building, 2nd Floor USA Visit 2. Refer to regarding installation requirements, multi-ply Information Norwalk, CT 06851 910-864-TRUS											
Notes 6. For flat roots provide proper drainage to prevent Inditiductation 1001 S. Relity.Rood, Suite #639 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 (o) regarding installation requirements, multi-ply 6. For flat roots provide proper drainage to prevent ponding Metsä Wood 1001 S. Relity.Rood, Suite #639 Visit 1. U/L beams must not be cut or drilled 1. U/L beams must not be cut or drilled 301 Merrit 7 Building, 2nd Floor USA Visit 2. Refer to regarding installation requirements, multi-ply Information Norwalk, CT 06851 910-864-TRUS											
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responsibility of the customer and/or the contractor to regarding installation requirements, multi-ply (200) 910-864-TRUS	structural adequacy of design criteria and	this component based on the 1. loadings shown. It is the 2	LVL beams must not be	cut or drilled	-		301 Merritt 7 Build		USA 28314		
	responsibility of the cus ensure the component	tomer and/or the contractor to to suitability of the intended	regarding installatio fastening details, bea	n requirements, multi-ply			(800) 622-5850		910-864-	IRUS	
Lumber 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained	Lumber	3. 4.	Damaged Beams must Design assumes top e	lge is laterally restrained			<u>www.metsawood.</u>		1.000		
2. LVL not to be treated with fire retardant or corrosive 5. Provide lateral support at bearing points to avoid lateral displacement and rotation This design is valid until 11/3/2024	2. LVL not to be treated	d with fire retardant or corrosive	Provide lateral suppo lateral displacement ar		This design is val	id until 11/3/2024			9	:omto	есн



isDesign	Client: Weaver Development Project: Barstow II Elev. A w/ 3rd Car Address: Barstow II Elev. A w/ 3rd Car	Date: 2/9/2022 Input by: Christine S Job Name: Barstow II Project #:	Shivy Elev. A w/ 3rd Car	Page 1 of 2
BM2 Kerto-S LVL 1	.750" X 16.000" 2-Ply - I			
2 3 5	16'10 1/4"	· · · · ·	2 SPF	1'4" 1'4"
/	16'10 1/4"			ł
Member Information Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360	Application:FloorDesign Method:ASDBuilding Code:IBC/IRC 2015Load Sharing:NoDeck:Not Checked	Brg Direction Live 1 Vertical 878 2 Vertical 570	ED Ib (Uplift) Dead Snow 4513 3249 1145 619	Wind Const 0 0 0 0
Importance: Normal - II Temperature: Temp <= 100°F		°	Cap. React D/L lb Tota 66% 4513 / 3249 776	I Ld. Case Ld. Comb. 1 L D+S
LL Defl inch 0.172 (L/1142) 7'4 3/16" TL Defl inch 0.389 (L/505) 7'3 13/16" Design Notes 1 Provide support to prevent lateral movement may also be required at the interior bearing	39750 ft-lb 0.494 (49%) D+0.75(L+S) L 19643 ft-lb 0.999 D+0.75(L+S) L (100%) (100%) 13739 lb 0.547 (55%) D+S L 0.409 (L/480) 0.420 (42%) 0.75(L+S) L 0.546 (L/360) 0.546 (L/360) 0.713 (71%) D+0.75(L+S) L Int and rotation at the end bearings. Lateral support is by the building code. uils (.128x3") at 12" o.c. Maximum end distance not ers required for specified loads. in addition to hanger fasteners if a hanger is the bottom edge only. plies. o.f 5'11 3/8" o.c.	2 - SPF 3.500" Vert	39% 1145 / 892 2036	6 L D+0.75(L+S)
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 1. Dry service conditions, unless noted otherwise	g & Installation ponding aams must not be cut or drilled information to manufacturer's product information ing installation requirements, multi-ply ing details, beam strength values, and code vals ged Beams must not be used nassumes top degis laterally restrained le lateral support at bearing points to avoid displacement and rotation	Norwalk, CT 0 (800) 622-5850 www.metsawor	1001 S Fayette 8851 2834 0 0 0d.com/us	Reilly Road, Suite #639 ville, NC



		Client:	Weaver Dev	velopment			Date:	2/9/2022	2				Page 1 of 1
		Project:		lev. A w/ 3rd Ca	ar		Input by:	Christine	e Shivy				U
	sDesign	Address	Barstow I	I Elev. A w/ 3	ord Car			e: Barstow	II Elev. A w/	3rd Car			
BM3	Kerto-S LVL	1 750'	X 16.00	0" 2 E	Ply - P		Project #:	Level: Leve					
DIVIJ	Rento-3 LVL	1.750	× 10.00	JU 2-F	-iy - F	ASC							
									_				
	2												
			1										<i>—</i>
•	·	•	•	•	-	-		•				M	
•		•		- CHILLER	•	•	•					XIX	1'4"
1.												/ ¥ \	
								2 SPF				1.1	,
ł			11'6 1/2"						┥			/ →3	1/2"
/			11'6 1/2'	1					┥				
lember Ir	formation					Reac	tions UN	PATTERN	NED Ib (U	plift)			
Туре:	Girder	Арр	ication:	Floor		Brg	Direction	Live			Snow	Wind	Const
Plies: Moisture Cor	2 adition: Dry		0	ASD IBC/IRC 2015		1	Vertical	1824			0	0	0
Deflection LL	•		-	No		2	Vertical	1824	11	45	0	0	C
Deflection TL		Dec	<:	Not Checked									
Importance: Temperature	Normal - II : Temp <= 100°F												
remperature	. 100 T					Bear	ings						
							ring Lengtl	n Dir.	Cap. Rea			Ld. Case	Ld. Comb.
							SPF 3.500" SPF 3.500"	Vert Vert		45 / 1824 45 / 1824			D+L D+L
nalysis Re	esults					2-3	DFF 3.300	ven	5776 11	457 1024	2909	L	D+L
Analysis		cation Allowed	Capacity		Case								
Moment Unbraced		5'9 1/4" 34565 ft [.] 5'9 1/4" 11133 ft-	·		L								
Shear	2712 lb	9'11" 11947 lb	0.227 (23		L								
LL Defl inch	n 0.055 (L/2411) 5	5'9 1/4" 0.278 (L	480) 0.199 (20	%) L	L								
TL Defl inch	n 0.090 (L/1481) 5	5'9 1/4" 0.370 (L	360) 0.243 (24	%) D+L	L	4							
Design No	otes	movement and ret	ation at the and	haaringa Latar	al aussart	4							
may also l	be required at the interior	r bearings by the I	uilding code.	Ū.									
2 Fasten all to exceed	plies using 3 rows of 100 6".	d Box nails (.128x	3") at 12" o.c. M	aximum end dis	stance not								
	ast page of calculations for e designed to be support			loads.									
5 Top loads	must be supported equa	Illy by all plies.	ougo only.										
	be laterally braced at end ust be laterally braced at	-											
	enderness ratio based on												
ID 1	Load Type Uniform	Locatior	Trib Width	Side	Dead 0.9 80 PLF		Live 1 Sno 0 PLF	ow 1.15 0 PLF	Wind 1.6 0 PLF			mments rior Wall	
1 2	Uniform			Top Far Face	106 PLF		0 PLF 6 PLF	0 PLF	0 PLF		PLF Inte PLF F7	nor wall	
-	Self Weight				12 PLF		- · ·	у. ш	0 I EI		_		
	Self Weight				12 PLF								
Notes		chemicals		6. For flat	roofs provide p	proper drain	age to prevent	Manufactur			Comtech, 1001 S. R	eillv Road. Suite #	639
structural adequacy	ed Designs is responsible only of the of this component based on the nd loadings shown. It is the	1. LVL beams must not	be cut or drilled	ponding	1				7 Building, 2nd	Floor	Fayettevill USA 28314	e, NC	
responsibility of the ensure the compo	customer and/or the contractor to onent suitability of the intended	regarding installa fastening details, b	cturer's product inf ion requirements, am strength values, a	multi-ply				Norwalk, CT (800) 622-58	850		910-864-1	TRUS	
Lumber	erify the dimensions and loads.	approvals 3. Damaged Beams m 4. Design assumes top	edge is laterally restrain	ned				www.metsav	wood.com/us				and the second s
 Dry service cond LVL not to be tre 	litions, unless noted otherwise eated with fire retardant or corrosive	 Provide lateral sup lateral displacement 	ort at bearing points	to avoid	lesign is valio	d until 11/:	3/2024				C	OMT	есн
ersion 21.80.41	7 Powered by iStruct™ Data	set: 21072801.1545	embedded)								CSD	L DRAW	

		Client: Project:	Weaver Develo Barstow II Elev				Date: Input by:	2/9/2022 Christine					Page 1 of 2
IS	Design	Address:	Barstow II E	lev. A w/ 3ro	d Car		Job Name Project #:		II Elev. A v	w/ 3rd Car			
BM4 M	Kerto-S LVL	1.750"	X 16.000	" 2-P	ly - P			Level: Level					
3 1 Hanger (5 2 2 Hang 1/2" 1/2"	er (THF17157-2)										1'4"
Member Inf	ormation					Reactio	ns HN	PATTERN	IFD Ih ((Unlift)			
Type:	Girder	Applica	tion: Flo	or		F	rection	Live		ead	Snow	Wind	Const
Plies: Moisture Cond Deflection LL: Deflection TL: Importance:	2 lition: Dry 480 360 Normal - II	Buildin	haring: No	D C/IRC 2015		1 Ve	ertical ertical	597 597		1130 1267	471 608	0 0	0 0
Temperature:	Temp <= 100°F					Deering							
						Bearing Bearing 1 - Hanger	g Length 2.500"	n Dir. Vert	Cap. Re 26%	eact D/L lb 1130 / 801	Total 1930	Ld. Case L	Ld. Comb. D+0.75(L+S
Analysis Res	sults					2 -	2.500"	Vert	30%	1267 / 904	2170	L	D+0.75(L+S
Analysis Moment Unbraced Shear LL Defl inch	3353 ft-lb 3'4 3353 ft-lb 3'4 1495 lb 0.007 3'4 (L/10783)	ation Allowed 8 5/8" 39750 ft-lb 8 5/8" 18251 ft-lb 5'2" 11947 lb 5 3/4" 0.161 (L/48 1/16" 0.215 (L/36	0.084 (8%) 0.184 (18%) 0.125 (13%) 0) 0.045 (4%)	D+0.75(L+S) D+0.75(L+S) D+L 0.75(L+S)	L L	Hange	I						
		1/10 0.213 (£/30	0) 0.000 (078)	D+0.73(L+3)	L	1							
may also be 2 Fasten all p to exceed 6 3 Refer to lass 4 Fill all hang 5 Girders are 6 Top loads m 7 Top must be 8 Bottom mus	port to prevent lateral me required at the interior b lies using 3 rows of 10d	bearings by the bui Box nails (.128x3") fasteners required d on the bottom ed y by all plies. bearings. nd bearings.	ding code. at 12" o.c. Maxir for specified load	num end dista									
ID	Load Type	Location			Dead 0.9	Live				6 Const. 1		mments	
1	Uniform			lear Face	67 PLF	0 P		67 PLF	0 PLF		PLF M6		
2 3	Uniform Uniform			ar Face op	59 PLF 125 PLF	178 P 0 P		0 PLF 0 PLF	0 PLF 0 PLF		PLF F3 PLF Ext	erior Wall	
3	Point	1-11-4		ор Тор	125 PLF		LF) lb	153 lb	0 PLF 0 lb		0 lb C1	Shor Wall	
Gontinued on pa		7		-r	.00 10	U	~~		0 10				
structural adequacy o design criteria and responsibility of the ci ensure the compone application, and to veril Lumber 1. Dry service condition	ustomer and/or the contractor to ent suitability of the intended fy the dimensions and loads.	 LVL beams must not be Refer to manufacture regarding installation 	cut or drilled er's product informal requirements, multi strength values, and co to be used ge is laterally restrained at bearing points to av	ponding ion .ply ode		roper drainage until 11/3/20		Manufacturo Metsä Wood 301 Merritt 7 Norwalk, CT (800) 622-58 www.metsav	Building, 2 06851 50		Fayettevil USA 28314 910-864-7	eilly Road, Suite # e, NC	

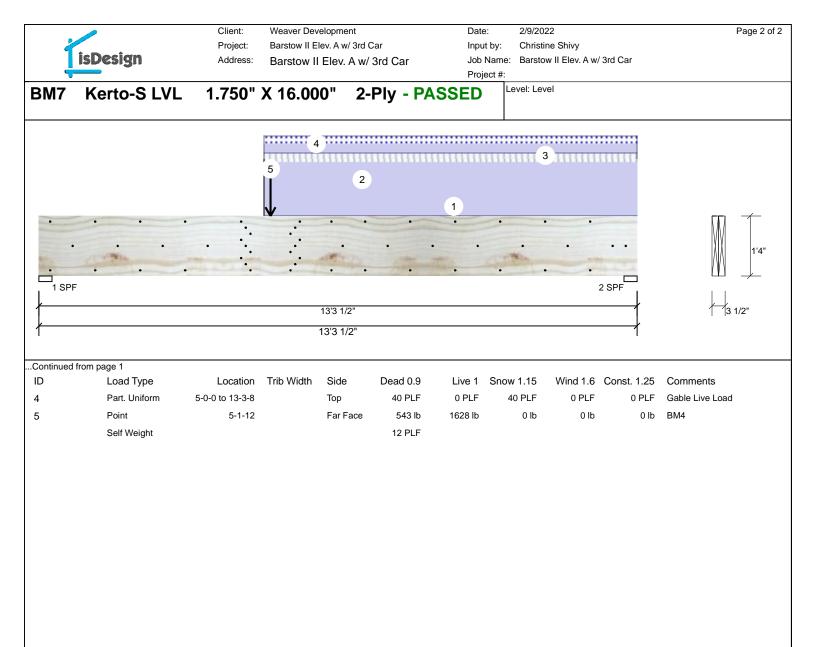
_		Client:	Weaver Developme	ent	Date:	2/9/202	22		Page 2 of 2
4	is Destaurs	Project:	Barstow II Elev. A w	/ 3rd Car	Input by	: Christir	ne Shivy		-
	isDesign	Address:	Barstow II Elev.	A w/ 3rd Car	Job Nar Project :		w II Elev. A w/ 3rd Ca	ſ	
BM4	Kerto-S LVL	1.750" >	X 16.000"	2-Ply - PA	-	Level: Lev	el		
	↓ 1 	5 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 • • • • • • • • • • • • • • • • • • •						1'4" 1'4"
1	6'8	1/2"	ł						
Continued f	from page 1 Load Type	Location	Trib Width Side	Dead 0.9	Live 1 Sr	now 1.15	Wind 1.6 Cons	t. 1.25 (Comments
5	Bearing Length Point	0-3-8 3-11-4	Тор	286 lb	0 lb	286 lb	0 lb	0 lb (C2
6	Bearing Length Point	0-3-8 5-11-4	Тор	190 lb	0 lb	190 lb	0 lb	0 lb (C3
	Bearing Length Self Weight	0-3-8		12 PLF					
Notes		chemicats		 For flat roofs provide prope ponding 	er drainage to prevent	Manufactu		1001	ech. Inc. S. Reilly Road, Suite #639
Calculated Structurs structural adequa design criteria responsibility of t ensure the com application, and to Lumber 1. Dry service co	ured Designs is responsible only of the acy of this component based on the and loadings shown. It is the the customer and/or the contractor to mponent suitability of the intended o verify the dimensions and loads. and the shows noted otherwise treated with fire retardant or corrosive	Handling & Installati 1. LVL beams must not be of 2. Refer to manufacture regarding installation	on sut or drilled er's product information requirements, multi-ply strength values, and code ot be used e is laterally restrained at bearing points to avoid	 For flat roots provide prope ponding This design is valid un 		Metsä Woo 301 Merritt Norwalk, C (800) 622-	od 7 Building, 2nd Floor 7 06851	Fayel USA 28314 910-8	tteville, NC
/ersion 21.80.4	417 Powered by iStruct™ Datase	et: 21072801.1545 (em	bedded)					-	

		Client: Project:	Weaver Develo Barstow II Elev.		Date: Input by	2/9/2022 /: Christine				Page 1 of 1
Ĭ	sDesign	Address:	Barstow II El	ev. A w/ 3rd Car	Job Nar Project		II Elev. A w/ 3rd Car			
BM5	Kerto-S LVL	. 1.750	" X 9.250)" 2-Ply -	· · · · ·	Level: Level				
				3						
	2		-1							
		•	•		• •				M	1 1
		A.		····		-			XX	9
	End Grain				2 SPF End Grain					
			6'1"			\Box			1	⁷ 3 1/2"
1			6'1"			1				
/lember Ir	nformation				Reactions UI	NPATTERN	IED Ib (Uplift)			
Туре:	Girder	Applica		or	Brg Direction		Dead	Snow	Wind	Con
Plies:	2		Method: ASI		1 Vertical	961	1780	1055	0	
Moisture Co	•		0	/IRC 2015	2 Vertical	961	1780	1055	0	
Deflection LI Deflection TI		Deck:	Sharing: No Not	Checked						
Importance:	Normal - II	20011		eneoned						
Temperature	: Temp <= 100°F									
					Bearings					
					Bearing Leng	gth Dir.	Cap. React D/L lb	Total	Ld. Case	Ld. Com
					1 - SPF 3.500	0" Vert	32% 1780 / 1512	3292	L	D+0.75(L·
					End Grain					
Analysis R		ation Allowed	Capacity	Comb. Case	2 - SPF 3.500	0" Vert	32% 1780 / 1512	3292	L	D+0.75(L
Analysis Moment		3' 1/2" 14423 ft-lb	. ,	D+0.75(L+S) L	End					,
Unbraced		3' 1/2" 10944 ft-lb		D+0.75(L+S) L	Grain					
Shear		1' 3/4" 7943 lb	. ,	D+0.75(L+S) L						
		3' 1/2" 0.141 (L/48	()	()						
	. ,	3' 1/2" 0.188 (L/36								
	· · /	0.100 (1.00	0) 0.000 (0070)		-1					
Design No	DIES upport to prevent lateral m	overant and retati	on at the and has	ringe Lateral support	4					
	be required at the interior			nings. Lateral support						
2 Fasten all to exceed	plies using 2 rows of 10d	Box nails (.128x3")	at 12" o.c. Maxin	num end distance not						
	ast page of calculations for	fasteners required	for specified load	ls.						
	e designed to be supporte		ge only.							
	must be supported equal be laterally braced at end									
•	ust be laterally braced at end	•								
8 Lateral sle	enderness ratio based on	single ply width.								
ID	Load Type	Location	Trib Width S	Side Dead 0.9	Eive 1 Sr	now 1.15	Wind 1.6 Const. 1	.25 Co	mments	
1	Uniform		Т	op 125 PLF	O PLF	0 PLF	0 PLF 0	PLF Ext	erior Wall	
2	Uniform		Т	op 347 PLF	0 PLF	347 PLF	0 PLF 0	PLF A1		
3	Uniform		Т	op 106 PLF	- 316 PLF	0 PLF	0 PLF 0	PLF F7		
	Self Weight			7 PLF	=					
						Menufati	vr Info	Comtech	Inc	
Notes	ed Designs is responsible only of the	chemicals Handling & Installat	ion	For flat roofs provide ponding	proper drainage to prevent	Manufacture Metsä Wood			Reilly Road, Suite #	639
structural adequacy	of this component based on the nd loadings shown. It is the	1. LVL beams must not be	cut or drilled	on		301 Merritt 7	Building, 2nd Floor	USA 28314		
responsibility of the ensure the comp	e customer and/or the contractor to onent suitability of the intended		requirements, multi- strength values, and co	ply		Norwalk, CT (800) 622-58	50	910-864-	TRUS	
application, and to v Lumber	erify the dimensions and loads.	approvals 3. Damaged Beams must r	not be used			www.metsaw				and the second second
	ditions, unless noted otherwise eated with fire retardant or corrosive	 Design assumes top ed Provide lateral support lateral displacement and 	ge is laterally restrained at bearing points to av					le	omt	есн
 LVL not to be to 				This design is val						

		Client: Project:	Weaver Dev Barstow II El	elopment lev. A w/ 3rd C	`or		ite: out by:	2/9/2022 Christine					Page 1 of
T i	isDesign	Address:		Elev. A w/		-	-		II Elev. A w/ 3r	d Car			
							oject #:						
3M6	Kerto-S LVI	_ 1.750	" X 9.2	50" 2	2-Ply -	PASSE	D	evel: Level					
1			5									\mathbb{N}	9
	Children .											/V	
	F End Grain	2 SPF End G	ain										
1	3'4"											1	3 1/2"
1	3'4"		1										
lombor li	nformation					Deaction				1;+)			
Туре:	nformation _{Girder}	Applica	ation:	Floor		r	ction	Live	IED Ib (Up Dead		Snow	Wind	Cor
Plies:	2	Design	Method:	ASD		1 Verti		860	977		545	0	
Moisture Co Deflection L	ndition: Dry L: 480		0	BC/IRC 2015 No	5	2 Verti	cal	1882	1609		836	0	
Deflection L		Deck:		Not Checked									
Importance:	Normal - II												
Temperature	e: Temp <= 100°F					Destriction							
						Bearings		Dia	Ora Drest		Tatal		
						Bearing 1 - SPF	-	Dir. Vert	Cap. React 20% 977	D/L ID	10tal 2031	Ld. Case	Ld. Corr
						End	3.500	ven	20% 977	/ 1054	2031	L	D+0.75(L
nalysis R	Results					Grain							
Analysis	Actual Lo	cation Allowed	Capacity	Comb.	Case	2 - SPF End	3.500"	Vert	35% 1609	/ 2039	3647	L	D+0.75(L
Moment		0 1/4" 12542 ft-lb	0.177 (18%		L	Grain							
Unbraced		10 1/4" 11972 ft-lb	0.186 (19%	,	L								
Shear		'3 1/4" 6907 lb	0.324 (32%	,	L								
		0 1/4" 0.072 (L/48 0 1/4" 0.096 (L/36			L								
		10 174 0.090 (1/30	0) 0.131 (137	() D+L	L	l I							
esign No	DIES support to prevent lateral m	ovement and rotati	on at the end h	earings Late	eral support	1							
may also	be required at the interior Il plies using 2 rows of 10d	bearings by the bui	lding code.										
to exceed		r factor or required	for opposition	aada									
	ast page of calculations fo re designed to be support			uaus.									
•	s must be supported equal												
-	be laterally braced at end nust be laterally braced at	-											
	enderness ratio based on												
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1		w 1.15	Wind 1.6 C	onst. 1.	25 Corr	nments	
1	Uniform			Тор	80 PLF	0 PLF		0 PLF	0 PLF	0 P		ior Wall	
2	Point	0-11-4		Тор	668 lb	0 lb		668 lb	0 lb	0	lb A7G	E	
_	Bearing Length	0-3-8		_									
3	Point	1-10-4		Тор	405 lb	1215 lb)	0 lb	0 lb	0	lb F3		
ontinued on	Bearing Length page 2	0-3-8											
								Monufertu	ar Info		Comtech, Ir	00	
Notes Calculated Structur	red Designs is responsible only of the	chemicals Handling & Installat	ion	 For fl pondir 	at roofs provide pi ng	oper drainage to p	Jeveni	Manufacture Metsä Wood			1001 S. Rei Fayetteville,	illy Road, Suite #	639
tructural adequac lesign criteria a	by of this component based on the and loadings shown. It is the	1. LVL beams must not be 2. Refer to manufactu	cut or drilled	rmation					Building, 2nd Fl	oor	USA 28314		
esponsibility of th ensure the comp	e customer and/or the contractor to bonent suitability of the intended verify the dimensions and loads.	regarding installation fastening details, beam	requirements, n	nulti-ply				(800) 622-58	50		910-864-TR	tus	
nnlication and to		approvals						www.metsav	voa.com/us				
umber	iditions, unless noted otherwise	 Damaged Beams must r Design assumes top edge 		ed									

Ţ	sDesign	Project:	Weaver Developme Barstow II Elev. A w Barstow II Elev.	/ 3rd Car	Date: Input I Job N Projec	ame: Barsto	22 ine Shivy ow II Elev. A w/	3rd Car		Pa	age 2 of :
BM6	Kerto-S LVL	1.750"	X 9.250"	2-Ply - F	PASSED	Level: Le	vel				
1		4 6	5								9
	• F End Grain	• 2 SPF End Gra									
/ 1 SP	3'4" 3'4"										1/2"
Continued fr											
D 4	Load Type Point	Location 2-5-12	Trib Width Side Top	Dead 0.9 509 lb	Live 1 3	Snow 1.15 0 lb	Wind 1.6 0 lb	Const. 1.25 0 lb	Comme BM2	ents	
	Bearing Length	0-3-8	ιορ	01 60C	1021 10	ui U	UIU	di U			
	Point	2-11-4	Тор	713 lb	0 lb	713 lb	0 lb	0 lb	C1		
	Bearing Length Self Weight	0-3-8		7 PLF							
ructural adequac esign criteria a sponsibility of the sure the compoplication, and to umber	Ind loadings shown. It is the e customer and/or the contractor to onent suitability of the intended verify the dimensions and loads.	 LVL beams must not be cu Refer to manufacture regarding installation 	n it or drilled if	6. For flat roofs provide proj ponding	per drainage to preve	Metsä Wo 301 Merri Norwalk, (800) 622	ood tt 7 Building, 2nc CT 06851	I Floor	omtech, Inc. 001 S. Reilly Rd ayetteville, NC ISA 8314 10-864-TRUS	oad, Suite #639	
Dry service con LVL not to be to	ditions, unless noted otherwise eated with fire retardant or corrosive	 Provide lateral support a lateral displacement and r 	t bearing points to avoid	This design is valid u	Intil 11/3/2024				CO	те	СН

is	Design	Project: Barstow	Development II Elev. A w/ 3rd Car w II Elev. A w/ 3rd		Date: Input by: Job Nam Project #		Shivy I Elev. A w/ 3rd Car		Page 1 of 2
BM7 K	Kerto-S LVL	1.750" X 16.	000" 2-P	ly - P	ASSED	Level: Level			
·		5	2		1				m 1
1 SPF			and the second		· · ·	*	2 SPF		1'4"
			13'3 1/2"					·	3 1/2"
1			13'3 1/2"				,		
Member Inf	ormation				Reactions UN				
	Girder	Application:	Floor		Brg Direction	Live	Dead	Snow	Wind Cons
Plies:	2	Design Method:	ASD		1 Vertical	1105	1158	101	0
Moisture Cond	•	Building Code:	IBC/IRC 2015		2 Vertical	854	1972	230	0
Deflection LL: Deflection TL:	480 360	Load Sharing: Deck:	No Not Checked						
Importance:	Normal - II	DOOK.	Not Officered						
Temperature:	Temp <= 100°F								
					Bearings				
					Bearing Lengt		Cap. React D/L lb		
					1 - SPF 3.500'		43% 1158 / 1105		D+L
Analysis Res	sults				2 - SPF 3.500'	Vert	54% 1972 / 854	2826 L	D+L
Analysis		ation Allowed Capa	city Comb.	Case	1				
Moment	10983 ft-lb 5'	•	(32%) D+L	L					
Unbraced	10983 ft-lb 5'	1 3/4" 11001 ft-lb 0.998		L					
Shear	2333 lb 1'	(100%) 7 1/2" 11947 lb 0.195	») (20%) D+L						
		1 3/4" 0.321 (L/480) 0.204		1					
		5 1/4" 0.428 (L/360) 0.348	. ,	1					
Design Note	. ,		(((((((((((((((((((((((((((((((((((((((ſ				
 Provide sup may also be Fasten all pl to exceed 6 Refer to last Concentrate present. Girders are Top loads m Top must be Bottom mus 	port to prevent lateral m required at the interior l lies using 3 rows of 10d ". t page of calculations for d load fastener specific	aximum of 11'3 1/4" o.c. and bearings.	e. Maximum end dista ied loads.	ance not					
ID	Load Type	Location Trib Wid	lth Side [Dead 0.9	Live 1 Sno	ow 1.15	Wind 1.6 Const.	1.25 Commer	nts
1	Part. Uniform	5-0-0 to 13-3-8	Тор	125 PLF	0 PLF	0 PLF	0 PLF 0	PLF Exterior V	Vall Load
2	Part. Uniform	5-0-0 to 13-3-8	Тор	112 PLF	0 PLF	0 PLF	0 PLF 0	PLF Gable De	ad Load
3 Continued on pag	Part. Uniform	5-0-0 to 13-3-8	Far Face	15 PLF	40 PLF	0 PLF	0 PLF 0	PLF 1'-0" Floo	r Load
ionunded on pa	yv 2								
structural adequacy of design criteria and responsibility of the cu ensure the compone application, and to verif Lumber 1. Dry service conditio	Designs is responsible only of the f this component based on the loadings shown. It is the ustomer and/or the contractor to mit suitability of the intended by the dimensions and loads.	chemicals Handling & Installation 1. UV beams must not be cut of drilled 2. Refer to manufacturer's product regarding installation requiremen fastening details, beam strength valu approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally n 5. Provide lateral support at bearing p lateral displacement and rotation	ponding information ts, multi-ply es, and code strained pints to avoid		oper drainage to prevent until 11/3/2024	Manufacture Metsä Wood 301 Merritt 7 Norwalk, CT ((800) 622-585 www.metsaw	Building, 2nd Floor 06851 50	Comtech, Inc. 1001 S. Reilly Roa Fayetteville, NC USA 28314 910-864-TRUS	nd, Suite #639



Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
	 LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply 	ponding This design is valid until 11/3/2024	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	Pagettevile, NC USA 28314 910-864-TRUS

