CONVERTING EX. PORCH TO SUNROOM.

5978 HADDON PL SE, MABLETON, GA 30126

DRAWING INDEX

CS-1 COVER SHEET, INDEX, ISOMETRIC, ETC.

A-1 EXIS. & PROP. FLOOR PLANS



APPLICABLE CODES / EDITIONS:

- 1. DIMENSIONS FOR NEW CONSTRUCTION ARE TO BE TAKEN FROM THE FACE OF WALL STUD, CEILING JOISTS & SUB FLOOR SURFACES.
- PLANS ARE IN COMPLIANCE WITH RESIDENTIAL BUILDING CODE, 2012 EDITION WITH GEORGIA AND CITY OF ATLANTA REQUIREMENTS
- 3. PLANS ARE IN COMPLIANCE WITH THE FOLLOWING APPLICABLE CODES:
- a. (IBC) INTERNATIONAL BUILDING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS 2014 & 2015;
- INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS, 2012 EDITION WITH GEORGIA AMENDMENTS (2015) (2014 PRESCRIPTIVE DECK DETAILS);
- c. INTERNATIONAL EXISTING BUILDING CODE 2012; WITH 2015 GEORGIA STATE AMENDMENTS
- d. NFPA ELECTRICAL CODE, 2017 EDITION
- e. (NEC) NATIONAL ELECTRICAL CODE, 2014 EDITION WITH GEORGIA;
- f. (IEC) INTERNATIONAL ENERGY CONSERVATION CODE, 2009 EDITION WITH GEORGIA STATE SUPPLEMENTS AND AMENDMENTS 2011 & 2012;
- g. (IMC) INTERNATIONAL MECHANICAL CODE, 2012 EDITION WITH GEORGIA AMENDMENTS 2014 & 2015;
- h. (IPC) INTERNATIONAL PLUMBING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS 2014 & 2015;
- i. (IFGC) INTERNATIONAL FUEL GAS CODE, 2012 EDITION WITH GEORGIA
- j. (IFC) INTERNATIONAL FIRE CODE, 2012 EDITION WITH GEORGIA FIRE MARSHALL AMENDMENTS 2014.
- k, RULES & REGULATIONS OF THE SAFETY FIRE COMMISSIONER FOR THE STATE MINIMUM FIRE SAFETY STANDARDS, 2007 (GEORGIA SAFETY FIRE LAW):
- I. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101 LIFE SAFETY CODE, 2012 MEANS OF EGRESS, EDITION WITH GEORGIA AMENDMENTS;

CLIENT/CONSULTANT INFO

OWNER OR REP:

TRACY RICE 5978 HADDON PL MABLETON, GA 30126 P: 770-355-4830 E: TRACY.RICE7342@GMAIL.COM

ENGINEER:

CONCEPT ENGINEERING SERVICES LLC EMMANUEL ABUA P: (404) 643-6044







ISOMETRIC VIEW

SITE DATA

SITE ADDRESS:

5978 HADDON PL SE MABLETON, GA 30126

PARCEL ID:

18017000440

BUILDING DATA

LEGAL DESCRIPTION:

RESIDENCE ON HADDON PL SE.

SCOPE OF WORK:

CONVERTING EXISTING CONCRETE PORCH TO 11' 10" X 13' SUNROOM

BUILDING INFORMATION:

DEVELOPMENT TYPE: CONSTRUCTION TYPE; TYPE OF OCCUPANCY; PARKING: # OF STORIES: RESIDENTIAL VB RESIDENCE GARAGE TWO

ABBREVIATIONS

		, ,	DITEVITORE		
Α	AMPERE	EX	EXISTING	NEUT	NEUTRAL
ACT	ACOUSTICAL CEILING TILE	EXT	EXTERIOR	Sd1	SILT FENCE
AFF	ABOVE FINISH FLOOR	FA	FIRE ALARM	SW	SWITCH
AFG	ABOVE FINISH GRADE	FFL	FINISH FLOOR	RA	RETURN AJR
AHU	AIR HANDLING UNIT	GND	GROUND	SS	SANITARY SEWER
AWG	AMERICAN WIRE GUAGE	h	HIGH	TYP	TYPICAL
BLDG	BUILDING	HT	HEIGHT	UG	UNDERGROUND
С	CONDUIT, CONDUCTOR	INT	INTERIOR	UNO	UNLESS NOTED OTHERWI
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	VCT	VINYL COMPOSITION TILE
CLG	CEILING	MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERES
CKT	CIRCUIT	MIN	MINIMUM	w	WATTS, WIRE
CU	COPPER	MTG	MOUNTING	w	WIDE
DIA	DIAMETER	PART	PARTITION	WF	WATER FOUNTAIN
DS1	TEMP MULCH OF DISTURBED AREA	PNL	PANEL	XFMR	TRANSFORMER
DS2	TEMP SEED OF DISTURBED AREA	P	POLE	&	AND
d	DEEP	PVC	POLYVINYL CHLORIDE		
ELEC	ELECTRIC, ELECTRICAL				

LEAD TO THE PROPERTY OF THE PR

PRODUCT AND THE RETAINED THE RE

THESE DRAWINGS ARE THE PROPRIETNAY WORK PROPERTY DE CEST ALL. DUSCHOPED OFF THE EX LIL. USE OF THESE DRAWINGS AND CONCEPTS OF WITHOUT THE WRITTEN PERMISSION OF CES LI MAY SUBJECT YOU TO A CLAIM FOR DAMAGES FR

SEAL:

PROJECT: 54TØ HADDON PL SE MABLETON, GA 30126

SHEET TITLE:

COVER SHEET

DESIGNED BY: NKV
DRAWN BY: NKV
CHECKED BY: NKV
APPROVED BY: CES

PROJECT

NO: CE52022-080

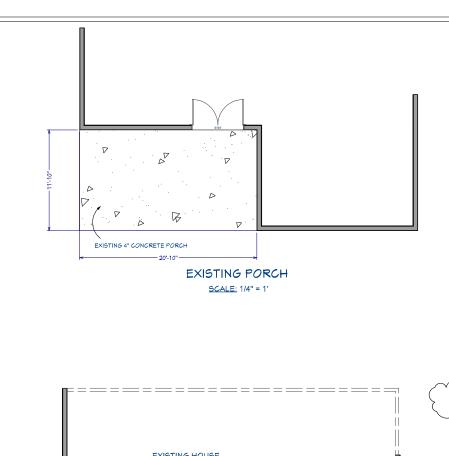
6/21/2023

SCALE:

AS SHOWN

SHEET:

RELEASE FOR CONSTRUCTION



NOTE: ALL PROPOSED WINDOWS ARE TEMPERED

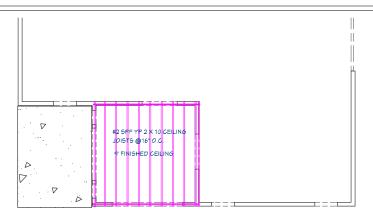
EXISTING HOUSE 17'-9" × 23'-3" ING 4" CONCRETE PORCH TO REMAIN PROPOSED 4" OF CONCRETE ON 16" X 16" TURNDOWN PERIMETER FOOTING OVER 4" OF GRAVEL WITH 2 CONTINUOUS #4 REBAR (VIF IF EXISTING CONCRETE PORCH CAN BE REMAIN

PROPOSED SUNROOM SCALE: 1/4" = 1'

4" CONCRETE SLAB

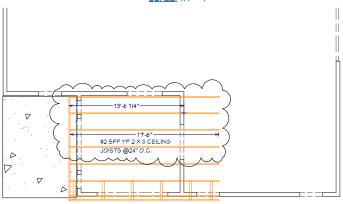
TURN DOWN PERIMETER FOUNDATION WALL

N.T.S



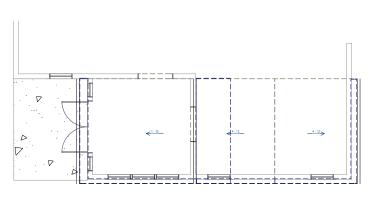
PROPOSED CEILING PLAN

SCALE: 1/4" = 1'



PROPOSED ROOF FRAMING PLAN

SCALE: 1/4" = 1'



PROPOSED ROOF PLAN

SCALE: 1/4" = 1'

RELEASE FOR CONSTRUCTION

THESE DRAWINGS ARE THE PROPRIETARY WORK PRODUCT AND DESCRIPTION OF THE SERVING WESO OF CEST LLL. USE OF THESE DRAWINGS AND CONCEPTS CONTINUED THEREIN USE OF THESE DRAWINGS AND CONCEPTS CONTINUED THEREIN THE DRAWINGS AND CONCEPTS CONTINUED THEREIN MAY SUBJECT TO BE PROJUBLITED AND MAY SUBJECT YOU TO A CLAM FOR DAMAGES FROM CES LLC. SEAL:

PROJECT: 5978 HADDON PL SE MABLETON, GA 30126

SHEET TITLE:

FLOOR PLANS

DESIGNED BY: NKV
DRAWN BY: NKV
CHECKED BY: NKV
APPROVED BY: CES

PROJECT

NO: CES2022-080

DATE:

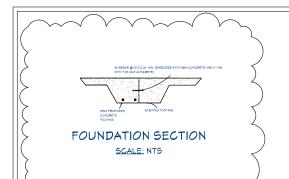
6/21/2023

SCALE:

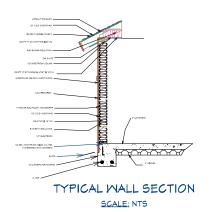
AS SHOWN

SHEET:

A-1



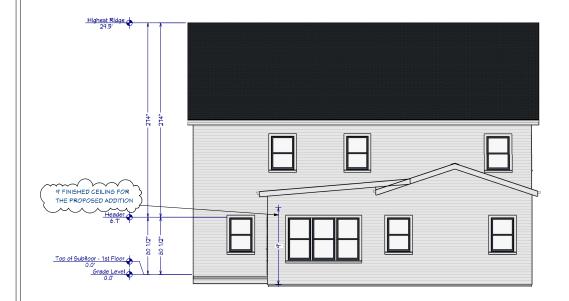






PROPOSED LEFT SIDE ELEVATION

SCALE: 1/4" = 1'





PROPOSED RIGHT SIDE ELEVATION SCALE: 1/4" = 1'

PROPOSED REAR ELEVATION

SCALE: 1/4" = 1'

AS SHOWN

RELEASE FOR CONSTRUCTION

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	DESCRIP TION					
ON TABLE	REVISED BY					
REVISI	DATE					
	NUMBER DATE					
1.0			_			

THESE DRAWINGS ARE THE PROPRIETMEN WORK PRODUCT AND PROPRETY CEST. LLG. PROLEDED FOR THE RELIGIATIVE USE OF CEST. LLG. USE OF PRICE PROCESSES OF THE SERIES DRAWINGS AND CONCEINS CONTAINED THEREIN WITHOUT THE USE PROLEDED OF CEST. CEST PROLEDED AND WAY SUBJECT YOU'TO A CAIM POR DAMAGES FROM LES LLG.

SEAL:

PROJECT: 5918 HADDON PL SE MABLETON, GA 30126

SHEET TITLE:

ELEVATIONS

DESIGNED BY: NKV
DRAWN BY: NKV
CHECKED BY: NKV
APPROVED BY: CES

PROJECT

NO: CES2022-080 DATE:

6/21/2023

SCALE:

SHEET:

A-2

GP LAM® LVL HANDLING & INSTALLATION

- GP Lam® LVL shall not be stored in direct contact with the ground GP Lam LVL is manufactured without camber or specific vertical and must be protected from weather. Provide air circulation under covering and around stacks of materials.
- Bundles must be stored level and must not be opened until time of installation.
- St ack and handle GP Lam LVL flatwise.
- · Handlers and installers should use appropriate personal protective equipment such as gloves and goggles. An MSDS is available at www.buildgp.com
- · Engineered lumber must not be installed in direct contact with concrete or masonry construction or shall be protected per code and shall be used in covered, dry use conditions only (moisture content is less than 16%).
- Minimum bearing length for GP Lam LVL beams and headers: end bearing 11/2", intermediate bearing 3". Size for applied loads.
- GP Lam LVL beams and headers must be restrained against rotation at ends and supports and the top (or compression edge) must be laterally supported by perpendicular framing or bracing at 24" on-center or closer.
- 13/4" GP Lam LVL beams deeper than 14" must only be used in multiple-piece members
- Nails installed in the narrow face of GP Lam LVL shall not be spaced closer than 4" (10d common nails) or 3" (8d common nails).
- · Multiple piece GP Lam LVL may not be stagger-spliced as is sometimes done with dimension lumber. If the required length of a multiplespan beam exceeds the available length of the LVL, the LVL beams must be installed so as to butt together over a common bearing

- orientation. It may be installed with the identifying stamps on the side faces reading right side up or upside down.
- Strength and stiffness properties of GP Lam LVL exceed those of typical dimension lumber. It may be possible to substitute GP Lam LVL for dimension lumber roof members in code-prescribed conventional light-frame construction, but design of conventional construction is beyond the scope of this product guide and of Georgia-Pacific Engineered Lumber Technical Services.
- · When nail type is not specified in this guide, use common, box
- . To help safeguard the structural integrity of connections with preservative or fire-retardant treated wood, use connectors and hardware as required by code and type of treatment.

As a minimum requirement, hot-dipped galvanized coated fasteners should conform to ASTM Standard A 153 and hot-dipped galvanized coated connectors should conform to ASTM Standard A 653 (Class G-185). In demanding applications, or in highly corrosive environments, stainless steel fasteners and connectors should be utilized and may, in fact, be required by building codes.

Most commonly available electroplated galvanized fasteners do not have a sufficient coating of zinc and are not recommended. Aluminum should not be used in direct contact with preservative treated wood. Never mix galvanized steel with stainless steel in the same connection

2.0E GP LAM LVL FLOOR BEAMS

This table shows the size (e.g.: 2-11%''=2 plies of $1\%''\times11\%''$) of beams needed to support loads of one floor only, i.e., a second story floor or one story floor over a basement.

When floor joists span continuously from wall to wall (not cut at beam) this table requires that "B" be not less than 45%, or greater than 55% of "A"

Example: If"A" = 32',"B" must be between 14.4' (32x.45) and 17.6' (32x.55)



		COLUMN OR SUPPORT SPACING (CENTER-TO-CENTER)														
		11'	12'	13'	14'	15'	16'	17'	18'	19'	20'					
	24'	2-111/4"	2-111/4"	2-117/8"	2-14"	2-14"	2-16"+	2-16"+	2-18"+	2-18"+	2-18"+					
	24	3-91/4"	3-91/2"	3-111/4"	3-111/4"	3-117/8"	3-14"	3-14"	3-16"	3-16"	3-16"					
	28'	2-111/4"	2-117/8"	2-14"+	2-14"+	2-16"+	2-16"+	2-16"+	2-18"+	2-18"+						
		3-91/4"	3-111/4"	3-111/4"	3-117/8"	3-14"	3-14"	3-14"	3-16"	3-16"	3-16"					
TOTAL FLOOR	32'	2-111/4"	2-14"+	2-14"+	2-14"+	2-16"+	2-16"+	2-18"+	2-18"+							
JOIST SPAN	32		3-111/4"	3-117/8"		3-14"	3-14"	3-16"	3-16"	3-16"+	2-18"+ 3-16" 3-16" 3-18"+					
"A"	36'	2-117/8"+	2-14"+	2-14"+	2-16"+	2-16"+	2-18"+									
	36	3-111/4"	3-111/4"	3-117/8"	3-14"	3-14"	3-14"	3-16"+	3-16"+	3-18"+	2-18"+ 3-16"					
	40'	2-117/8"+	2-14"+	2-14"+	2-16"+	2-16"+										
See note 2.	40	3-111/4"	3-111/4"		3-14"	3-14"	3-16"+	3-16"+	3-16"+	3-18"+	3-18"+					

- 1. Table is based on continuous floor joist span and simple or continuous beam span
- 1. Table is based on continuous floor joist span and simple or continuous beam span conditions. If floor joists are not continuous above the beam, take the sum of the joist spans them multiply by 0.8. This is the total floor joist span to consider.
 2. Required end bearing length (based on 565 psi) s.0" unless the subscript; + is shown. In that case, 4.5" is required.
 3. At intermediate supports of continuous spans, use the following guidelines or refer

- 7½" bearing length for beams requiring 3" bearing at the beam ends
 10½" bearing length for beams requiring 4½" bearing at the beam ends
- 4. All headers require full-width bearing support, e.g., 2×6 for $5/4^\circ$, 3-ply members. The adequacy of supporting columns to be verified by others.

 5. Table is based on residential floor loading of 40 psf live load and 12 psf dead load.

 6. Live load reductions have been applied per IBC section 1607.9.1.
- 7. Deflection is limited to L/360 at live load and L/240 at total load.
- 8. For other uniform load conditions refer to pages 41-42.
 9. A single 3 ½" thick ply can be substituted for any two 1¾" thick plies.

10. For multiple ply fasteners, see pages 47-48.

2.0E GP LAM® LVL WINDOW AND PATIO DOOR HEADERS, 2-STORY

TWO-STORY APPLICATIONS

This table shows the size (e.g.: $2-11\frac{1}{4}$ " = 2 plies of $1\frac{3}{4}$ " × $11\frac{1}{4}$ ") of beams needed to support the combined loads from a wall, second story floor (¼ of total floor joist span)



ROOF LOADING Rough opening			25 F	PSF LL + 20 F	SF OL		40 PSF LL + 20 PSF DL					20 PSF LL + 15 PSF OL						20 PSF LL + 25 PSF OL					
		6'	8'	9'	10'	12'	6'	8'	9'	10'	12'	6'	8'	9'	10'	12'	6'	8'	9'	10'	12'		
ROOF TRUSS Span with	20'	1-91/4" 2-71/4"	1-111/4"+ 2-91/4" 3-71/4"	1-14"+ 2-11"4" 3-9"4"	2-11%*	2-16" 3-14"	1-91/4"+ 2-71/4"	1-1176"+ 2-9"W"	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	2-14"	2-16"+	1-71/4"	1-111/4" 2-91/4" 3-71/4"	1-14"+ 2-9'4" 3-9'4"	1-14"+ 2-11"//" 3-117//"	2-14"	1-9'\" 2-7'\" 3-7'\"	1-111/4"+ 2-91/4" 3-91/4"	1-14"+ 2-11"/4"	2-11%*	2-16" 3-14"		
	24'	1-91/4" 2-71/4"	1-117/6"+ 2-91/4"	1-14"+ 2-11"// 3-9"//"	2-117/6" 3-111/4"	2-16" 3-14"	1-91/4"+ 2-71/4"	2-9%" 3-9%"	2-111/4" 3-91/1"	2-14" 3-11%"	2-18"+ 3-14"	1-9'\4" 2-7'\4"	1-11'4"+ 2-9'4" 3-7'4"	1-14"+ 2-11'4" 3-9'4"	2-11%	2-16" 3-14"	1-9¼" 2-7¼"	1-117//*+ 2-91/4"	1-14"+ 2-11"/4" 3-9"/4"	2-117/6" 3-111/6"	2-16" 3-14"		
	28'	1-9'\/"+ 2-7'\/"	2-91/4"	2-111/4"	2-14"	2-16"+ 3-14"	1-9½"+ 2-7¼"	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	2-117/6"+ 3-111/4"	2-14"+ 3-117%"			1-11 ⁷ / ₄ "+ 2-9 ¹ / ₄ "	1-14"+ 2-11'4" 3-9'4"	2-11 ⁷ / ₄ " 3-11 ¹ / ₄ "	2-16" 3-14"	1-9'4"+ 2-7'4"	2-91/4"	2-11¼" 3-9½"	2-14" 3-11"//"	2-16"+ 3-14"		
110001120	32'	1-9'4"+ 2-7'4"	2-111/4" 3-91/4"	2-11%	2-14"+		2-7'%"	2-11¼"+ 3-9'‰"	2-14"+			1-91/4"+ 2-71/4"	1-14"+ 2-9"/4"	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	2-14" 3-11%"	1-91/4"+ 2-16"+ 3-14"	2-7%	2-111/4" 3-91/4"	2-11%	2-14"+			
See note 1.	36'	1-91/2"+ 2-71/4"			2-14"+			2-111/4"+		2-16"+	3-16"+	1-9'4"+ 2-7'4"		2-11%	2-14"+		2-7%		2-117//"+				

- I. Required end bearing length (based on 625 psi) is 3.0° unless the subscript + is shown. In that case, 4.5° is required.
- All headers require full-width bearing support, e.g., 2x6 for 5¼, 3-ply members.
 The adequacy of supporting columns to be verified by others.
- 2. An inaction steepin relumination bearing support, e.g., 2.80 in 371, 3-pty inelinetrs. The adequacy of supporting columns to be verified by others.

 3. Table is based on residential floor loading of 40 psf live load and 12 psf dead load and exterior wall weight of 100 pff.

 4. A beam line supporting the center of the second floor is assumed.
- 5. Deflection is limited to L/360 and the lesser of L/240 or 5/16" at total load.
- 5. Deficiencion is limited to L1260 and the lesser of L1240 or "\n" at cotal load.
 6. Roof less and dead loads shown are spaidle vertically to the horizontal projection.
 1. Roof less and the horizontal projection are spainly and the available and the spainly and the available and the spainly are spainly and the available and the spainly are spainly are spainly as the spainl

2.0E GP LAM LVL GARAGE DOOR HEADERS, 2-STORY

TWO-STORY APPLICATIONS

This table shows the size (e.g.: 2-111/4'' = 2 plies of $13/4'' \times 111/4''$) of beams needed to support the combined loads from a wall, second story floor (¼ of total floor joist span) and various roof truss spans with a 28 soffit. If the soffit exceeds 2', additional design is necessary. For non-conforming situations, use FASTBeam® analysis and selection software or contact Georgia-Pacific.



SNOW (115%)											NON-SNOW (125%)										
ROOF LOADING Rough opening		25 P	SF LL + 20 PS	E DL	30 PSF LL + 20 PSF DL			40 PSF LL + 20 PSF DL			20 PSF LL + 15 PSF DL			20 PSF LL + 20 PSF DL			20 PSF LL + 25 PSF DL				
		9'3"	16'3"	18'3"	9'3"	16'3"	18'3"	9'3"	16'3"	18'3"	93"	16'3"	18'3"	9'3"	16'3"	18'3"	9'3"	16'3"	18'3"		
ROOF TRUSS	20'	1-117//"+ 2-9%"	2-16"+	2-18"+	1-117/h"+ 2-91/k"	2-16"+	2-18"+	2-91/2" 3-91/4"	2-18"+	3-16"+	1-11'W"+ 2-9'W" 3-7'W"	2-16" 3-14"	2-18" + 3-16"	1-11¼"+ 2-9¼"	2-16"+ 3-14"	2-18" + 3-16"	1-117/6"+ 2-91/4"	2-16" + 3-14"	2-18" + 3-16"		
	24'	2-9%"	2-18"+ 3-14"	3-16"	2-91/2" 3-91/4"	2-18"+ 3-16"	3-16"+	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	3-16"+	3-18"+	2-91/4"	2-16"+	2-18"+ 3-16"	1-117/6"+ 2-9"/6"	2-16"+ 3-14"	2-18" + 3-16"	2-91/4"	2-18"+ 3-14"	3-16"		
SPAN WITH 2' SOFFIT ASSUMED	28'	2-11%" 3-9%"	3-16"+	3-18"+	2-11%" 3-9%"	3-16"+	3-18"+	2-11 ¹ / ₄ "+ 3-9 ¹ / ₄ "	3-16"+	3-18"+	2-914"	2-16"+ 3-14"	2-18"+ 3-16"	2-91/2" 3-91/4"	2-18"+ 3-16"	3-16"+	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	3-16"+	3-18"+		
	32'	2-111/4" 3-91/4"	3-16"+	3-18"+	2-11 ¹ /4"+ 3-9"/4"	3-16"+	3-18"+	2-11 ¹ / ₄ "+ 3-9 ¹ / ₄ "	3-18"+		2-91/2" 3-91/4"	2-18"+ 3-16"	3-18"+	2-11W" 3-9W"	3-16"+	3-18"+	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	3-16"+	3-18"+		
See note 1.	36'	2-11½"+ 3-9½"	3-16"+	3-18"+	2-11¼"+ 3-9%"	3-18"+		2-11%"+			2-111/4"	3-16"+	3-18"+	2-11 ¹ / ₄ " 3-9 ¹ / ₄ "	3-16"+	3-18"+	2-111/4"+	3-16"+	3-18"+		

GP LAM® LVL ROOF HIP AND VALLEY BEAMS

CONSTRUCTION

NOTES:

1. Required end bearing length (based on 625 psi) is 3.0" unless the subscript + is shown. In that case, 45" is required.

2. All handers require full-width bearing support, e.g., 2 x6 for 5%", 3-ply members. The adequacy of supporting columns to be verified by others.

3. Table is based on residential floor chading of 40 psf five load and 12 psf dead load.

Roof rafter

- and exterior wall weight of 100 plf.

 A beam line supporting the center of the second floor is assumed.
- 5. Deflection is limited to L/360 at live load and L/240 at total load
- 5. Deflection is limited to L1960 at live load and L1740 at total load.
 Roof live and dead loads shown as applied vertically to the horizontal projection.
 Be considered to the local provides to other framing elements.
 8. A single 37th citic ply can be substrated for any two 15th thick, plus as unstantized for any two 15th thick, plus as unstantized

ROOF LOADING SNOW (115%)



30 PSF LL + 13 PSF DL 2.DE GP LAM LVL ROOF SLOPE RUUS JUUR ip to 4/12 up to 12/12 up to 12/12 up to 4/12 up to 8/12 up to 12/12 up to 4/12 up to 8/12 up to 8/12 No. of 13/4" plies -2 - 91/4" 2 - 91/4" 2 - 91/4" 2 - 91/4" 2 - 91/4" 2 . 91/5" 2 - 91/4" 2 - 91/2" 2 - 111/4" Order Length 22' Max. React. A&C (lbs) 1881 2049 2326 2401 2570 2846 2921 3089 3366 Max. React. B&D (lbs) 1063 1155 1306 1343 1435 1623 1715 1866 No. of 13/4" plies -2 - 111/4" 3 - 111/4" 2 - 111/4" 2 - 91/2" 2 - 111/4" 2 - 111/4" 2-111/4" 3 - 111/4" 3 - 111/4" Beam Depth 4 - 91/4" 4 - 91// Order Length 24' 26' 24' 26' 24' 1ax. React. A&C (lbs) 2716 3090 3184 3414 4149 Max. React. B&D (lbs) 1377 1498 1701 1744 1869 2114 2153 2278 2525 No. of 13/4" plies -3 - 111// 3 - 111/4" 3 - 117/6" 3 - 111/4" 3 - 1176" 3 - 1176" 3 - 14" Beam Depth 4 - 91/4 4-111/4" 4 - 111/4" 4 - 117/6 Order Length 5367 Max. React. A&C (lbs) 3239 3580 4067 4176 4473 4961 5069 5870 Max. React. B&D (lbs) 3202 2 - 14 No. of 13/4" plies 3 - 117/6" 3 - 14" 3 - 14" 3 - 14" 3 - 14" 3 - 16" 3 - 16" 3 - 16" Beam Depth 4 - 111/2" 4 - 111/2" 4 - 14" Order Length 30' 4084 4457 6767 Max. React. A&C (lbs) Max. React. B&D (lbs 2244 2444 2848 2839 3094 3428 3470 3674 4008 2 - 18 2 - 18 2 - 24" 2 - 18" 2 - 24" No. of 13/4" plies -3 - 14" 3 - 16" 3 - 16" 3 - 16" 3 - 16" 3 - 18" 3 - 16" 3 - 18" 3 - 18" 4 - 14" 4 - 16" Order Length 34' Max React A&C (lbs) 5051 5511 6329 6424 6885 7702 7850 8316 9075 Max. React. B&D (lbs) 4244 4907 2778 3026 3733 4201 No. of 13/4" plies -3 - 24" 3 - 24" _ 3 - 18" 3 - 16" 3 - 18" 3 - 18" 3 - 18" 3 - 18" Beam Depth Order Length 36' 40' 44' 40' Max. React. A&C (lbs) 10028 Max. React. B&D (lbs) 3650 4209 4197 4497 5056 5102 5407 No. of 13/4" plies -3 - 18" 3 - 24" 3 - 24" 3 - 24" _ -Beam Depth 4 - 16" 4 - 18" 4 - 18 4 - 18" Order Length Max. React. A&C (lbs) 7187 7915 9211 9875 Max. React. B&D (lbs)

NOTES.

- 2. Provide posts or wall at both ends to support reactions. Provide 5" minimum bearing in the direction of the hip or valley at each end based on Douglas Fir-Larch or Southern Pine post or plate material. (For example, a 2x4 wall provides 5" minimum bearing for a hip or valley rafter framing at a 45 degree angle to the wall.)

 3. The building designer must consider thrust resistant connections at bearing locations.
- 4. For non-equal roof slopes, use the longest horizontal roof rafter span (L) and the
- 4. For into-regular tool suppes, use the register introduction rates span (L) and the greatest roof slope.
 5. Table is based on triangular loading applied to the hip or valley member. Live load is calculated as applied vertically to the horizontal projection of the rafter and dead load is calculated along the rafter length.
- Size is based on uniform roof snow applications with a load duration factor of 115% and deflection criterion of L/240 live load and L/180 total load.
- 7. Refer to pages 47-48 for fastening recommendations for multiple-ply member Use the longest horizontal roof rafter span (L) to determine span-carried length for
- uniform loading.

 8. Reactions shown include heaviest beam weight selected for load and slope conditions.
- 9. A structural ridge beam is assumed.
- 10. A single 3½" thick ply can be substituted for any two 1¾" thick plies
- 11. Codes require that hip and valley beam depths be greater than or equal to the cut end

RELEASE FOR CONSTRUCTION



000 ANWILER RD, SUITE :

PROPE LLC. US WITHO MAY SE

SEAL:

PROJECT: 5918 HADDON PL SE MABLETON, GA 30126

SHEET TITLE:

SPAN TABLE & NOTES

DESIGNED BY: NKV OHECKED BY: NKY

PROJECT NO: CES2022-080

DATE:

6/21/2023

SCALE:

AS SHOWN SHEET:

A-3