

# THE BIRCH NORTH CAROLINA

# SQUARE FOOTAGES

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.)	= 1153 sf <u>= 589 sf</u> 1742 sf
GARAGE FRONT PORCH	= 449 sf = 149 sf
TOTAL	= 2340 sf
REAR PATIO	+ 100 sf

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# GENERAL CONTRACTOR

# LGI HOMES

SCOTT STERLING V.P. OF CONSTRUCTION FOR NC / SC 704-953-3824

# ARCHITECT

# COX ARCHITECTURE & DESIGN, PLLC

R. CRAIG COX, AIA 1310 SOUTH TRYON STREET SUITE 111 CHARLOTTE, NC 28203 980-237-3827 WWW.COXARCHITECTURE.COM CRAIG@COXARCHITECTURE.COM

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# ENGINEER

# QUEEN CITY CONSULTING & DESIGN, PLLC

2459 WILKINSON BLVD. SUITE 300 CHARLOTTE, NC 28208 828-381-3091 WWW.QC-DESIGNS.COM



ONS, REVS. ITHIC CONC. SLAB RACING PLAN BRACING PLAN DETAILS ٨В AB (CONT.)



HOM	
THE BIRCH	NORTH CAROLINA
CH-9	
PERMIT SET FOR CONSTRUCTION	
COVER	SHEET

#### GENERAL NOTES

## -DO NOT SCALE DRAWINGS; DESIGNATED DIMENSIONS SHALL BE USED IN PREFERENCE TO MEASUREMENTS BY SCALE.

-GENERAL CONTRACTOR SHALL VERIFY AND COMPLY TO ALL LOCAL & NATIONAL BUILDING CODES. CONTACT ARCHITECT IF INSPECTORS REQUIRE REVISIONS OR ALTERATIONS TO DRAWINGS.

-ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR DAMAGE TO OTHER TRADES.

## DESIGN SPECIFICATIONS

USE GROUP: (2018 NCBC:R) "RESIDENTIAL" ONE & TWO FAMILY DWELLING CONSTRUCTION CLASS: (2018 NCBC:R) "RESIDENTIAL" HEIGHT & AREA LIMIT: (LOCAL ZONING) 35' MAXIMUM 2-STORY HEIGHT EMERGENCY ESCAPE: (2018 NCBC:R) EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS SHALL HAVE MINIMUM OF 5.7 SQ. FT. NET CLEAR OPENING (5.0 SQ. FT. NET OPENING @ GRADE FLOOR) MINIMUM 20" WIDTH. MINIMUM 24" HEIGHT. MAXIMUM 44" SILL HEIGHT GARAGE / HOUSE CEILING / ASSEMBLY:  $\frac{1}{2}$ " GYPSUM WALL BOARD %" TYPE "X" GYPSUM BOARD CEILING WHERE LIVING IS ABOVE 20 MINUTE RATED GARAGE / HOUSE DOOR ATTIC VENTILATION: [TOTAL ATTIC SQ. FT.] / [300] = SQ. FT. AREA REQUIRED RIDGE VENT: [LINEAR FEET OF VENT] X [18 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED SOFFIT VENT: [LINEAR FEET OF VENT] X [7 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED EDGE SHINGLE OVER VENT: [LINEAR FEET OF VENT] X [9 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED ROOF LOUVER VENTS: [NUMBER OF VENTS] X [70 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED CRAWL SPACE VENTILATION: [TOTAL CRAWL SPACE SQ. FT.] / [300] = SQ. FT. AREA REQUIRED FOUNDATION VENT: FREE SPACE PROVIDED BY VENT = F [FREE AREA REQUIRED] / F = NUMBER OF VENTS REQUIRED

HOMES		
THE BIRCH	NORTH CAROLINA	
CH-9 THESE DOCUMENTS ARE PROPERTY OF COX ARE HESC TOSE AND OF AN ANTON ARE HESC TOSE AND OF AN ANTON CONSENT SY COX ARE INTERNAL CONSENT SY CONSENT CONSENT SY CONSENT CO		
B NOVEMBER 2024		
A	1.1	

### FLOOR PLAN NOTES

-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS PRIOR TO EXECUTION OF WORK.

-CLEANUP TO OCCUR DAILY.

-G.C. TO VERIFY FINISH GRADE @ HOUSE TO DETERMINE NUMBER OF STEPS.

-MECHANICAL CONTRACTOR TO COORDINATE W/ ARCHITECT LOCATION OF MAIN TRUNK & DISTRIBUTION LINES, REGISTERS (CENTER ALL REGISTERS ON WINDOWS), THERMOSTATS, AIR HANDLER & CONDENSERS

-CEILING HEIGHTS LISTED ARE DIMENSIONED TO FRAMING (TOP OF SUBFLOOR TO UNDERSIDE OF FRAMING ABOVE)

-CONCRETE SLABS & SETTING BEDS TO ACCOMMODATE FOR ADEQUATE WATER DRAINAGE AT GARAGES AND PORCHES

-ATTIC ACCESS DROP-DOWN STAIRS TO CONFORM WITH LOCAL AUTHORITIES BASED ON IRC (R807.1) MINIMUM NET CLEAR OPENING OF 20" x 30". ALL ATTIC ACCESS STAIRS TO BE WEATHER STRIPPED & SEALED WITH R-VALUES THAT CONFORM WITH LOCAL AUTHORITIES BASED ON IRC (N1102.2.4). GC TO PROVIDE & INSTALL INSULATION DAMS TO RESTRICT TYPICAL ATTIC INSULATION FROM FALLING THROUGH ATTIC ACCESS OPENING. RIGID FOAM BOX COVER TO BE INSTALLED & SEALED AROUND FRAMING OF OPENING, NOT TO IMPEDE OR OBSTRUCT PERFORMANCE OF ADJACENT TYPICAL ATTIC INSULATION.

### WINDOW NOTES

-ALL WINDOW DIMENSIONS ARE BASED ON M.I. WINDOW ROUGH OPENING CALL OUTS, UNO. FINAL SELECTION OF WINDOW SIZES ARE TO BE VERIFIED IN FIELD.

-WINDOWS TO BE INSTALLED BY CERTIFIED WINDOW INSTALLER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS

-WINDOW SUPPLIER TO SPECIFY & ORDER TEMPERED GLASS IN WINDOWS AS REQ'D BY LOCAL CODE.

-G.C. AND WINDOW SUPPLIER TO VERIFY THAT EACH BEDROOM TO HAVE A MINIMUM OF ONE WINDOW WHICH MEETS EMERGENCY EGRESS AS REQUIRED BY PER LOCAL AUTHORITIES BASED ON IRC. WINDOW SUPPLIER TO ADD EGRESS HARDWARE TO CASEMENT WINDOWS IF NECESSARY

-TOP OF INTERIOR CASING @ ADJACENT DOORS & WINDOWS TO ALIGN WHEN HEADER CALL OUTS ARE EQUAL

### DOOR NOTES

-ATTIC ACCESS DOORS TO INCLUDE WEATHER STRIPPING & INSULATION

-TOP OF INTERIOR CASING @ ADJACENT DOORS & WINDOWS TO ALIGN WHEN HEADER CALL OUTS ARE EQUAL

-DOOR SUPPLIER TO SPECIFY & ORDER TEMPERED GLASS IN DOORS AS REQ'D BY LOCAL CODE.

### DOOR & WINDOW LEGEND

HEIGHT: 6'-8" WIDTH: 3'-0" DOORS P = POCKET SH = SINGLE HUNG WINDOWS.

F = FIXED

#### INSULATION NOTES

**INSULATION VALUES PER 2018 NCRC** CH 11 ENERGY CONSERVATION CODE

CLIMATE ZONE 3A		CLIMATE ZONE 4A	
TABLE N1102.1.2		TABLE N1	102.1.2
CEILING: FLOOR: WALL: SLAB:	R-38 R-19 R-15 R-0	CEILING: Floor: Wall: Slab:	R-38 R-19 R-15 R-10

SQUAR	E FOC	JTAGES	-	
FIRST FLOOR (H SECOND FLOOR	TD.) (HTD.)	= 1153 sf = <u>589 sf</u> 1742 sf	,	<b>k</b> *
GARAGE FRONT PORCH		= 449 sf = 149 sf		
TOTAL		= 2340 sf		
REAR PATIO		+ 100 sf		
FLOOR F	PLAN	LEGEND	_	
5S 1R 2S 2R 2S HR CO W D D/W FRIG LS M	5 SHELV 1 ROD, 2 2 ROD, 2 HANGING CASED C WASHER DISH WA REFRIGE LAZY SU MIRROR SHOWER	ES SHELVES SHELVES G ROD PENING R, DRYER SHER ERATOR SAN R HEAD	-	
WALL	SCHE	DULE		0".
	FRAM	ED WALLS		3
	OVER	HEAD/BELOW		
ALL WALLS ARE 2x4 WOOD STUD WALLS, UNO 5 1/2" DIMENSION INDICATES 2x6 WOOD STUD WALL				
STA	IR NO	TES	.o	1
-STAIR FABRICATO	R / INSTAL F ALL REQ'	LER TO VERIFY D CODES	46	
-ADJUSTMENTS TO W/ ARCHITECT & C STAIR CONSTRUCT	) STAIR TO ONTRACT( [ION	BE CONFIRMED DR PRIOR TO		
CEILING I	HEIGH	IT NOTES		
9' - 1 ½" CEILING HE 8' - 1 ½" CEILING HE	EIGHTS ON EIGHTS ON	FIRST FLOOR SECOND FLOOR		
MEASUF SUBFLOOI TO FLOOR JOIS	RED FROM R / CONCR BOTTOM ( STS / ROOF	TOP OF ETE SLAB DF TRUSSES		
COLU	MN N	OTES		
COLUMNS TO BE:	AFCO OR ( Y. (6000 #	COLUMN OF EQUAL MINIMUM)	•	

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С  $\frac{\text{TOP CONNECTION:}}{\text{STEEL SCREWS PER SIDE INSERTED INTO BEAM.}}$ BOTTOM CONNECTION: (3) UBS - #18043 BRACKETS FASTENED WITH (2) 1/4" x 1 1/4" SCREWS INTO COLUMN & (2) <sup>1</sup>/<sub>4</sub>" x 3 <sup>3</sup>/<sub>4</sub>" CONCRETE SCREWS THROUGH FASTENER INTO CONCRETE

#### ELECTRICAL PANEL/METER

MAXIMUM DISTANCE BETWEEN ELECTRICAL PANEL & ELECTRICAL METER (NEC 230.70) TO BE DETERMINED BY LOCAL AUTHORITY



### SQUARE FOOTAGES

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.)	= 1153 sf <u>= 589 sf</u> 1742 sf
GARAGE FRONT PORCH	= 449 sf = 149 sf
TOTAL	= 2340 sf
REAR PATIO	+ 100 sf
CEILING HEIGHT	NOTES

9' - 1  $\frac{1}{2}$ " CEILING HEIGHTS ON FIRST FLOOR 8' - 1  $\frac{1}{2}$ " CEILING HEIGHTS ON SECOND FLOOR

MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES





### ROOF NOTES

#### -CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DISCREPANCIES, ERRORS OR OMISSIONS PRIOR TO EXECUTION OF WORK.

-ALL ROOF PENETRATIONS TO BE PLACED ON REAR SIDE OF MAIN RIDGE OR AS SPECIFIED BY ARCHITECT. PAINT TO MATCH SHINGLE COLOR.

-ATTIC INSULATION TO BE BATT. INSUL. PER CODE, PROVIDE BAFFLES @ PERIMETER TO ALLOW 2" FOR AIRFLOW FROM EAVE VENTS TO RIDGE VENTS.

-ROOF SHEATHING TO BE 1/2" T&G PLYWOOD W/ METAL CLIPS @ ENDS.

-ALL BATHROOM & DRYER VENT PENETRATIONS TO RUN TOWARD REAR OF HOUSE & VENT IN REAR OUTSIDE WALL OR ROOF BEHIND MAIN RIDGE

-GUTTER & DOWNSPOUT INSTALLER TO PROVIDE ADEQUATE UNITS PER MANUFACTURER SPECIFICATIONS BASED ON ROOF COVERAGE. SUB-CONTACTOR TO VERIFY NUMBER & LOCATION OF DOWNSPOUTS

-ALL SHINGLED ROOFS WITH A PITCH OF 4:12 OR LESS REQUIRE (2) LAYERS OF 30# FELT PAPER PER SC IRC

#### INSULATION NOTES

#### INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

CLIMATE Z	CLIMATE ZONE 3A		CLIMATE ZONE 4A		
TABLE N11	02.1.2	TAB	ILE N1	102.1.2	
CEILING: FLOOR: WALL: SLAB <sup>:</sup>	R-38 R-19 R-15 R-0	CEII FLO WAI SLA	LING: OR: LL: B <sup>:</sup>	R-38 R-19 R-15 R-10	

DRAWING PURPOSES ONLY, AND TO BE VERIFIED IN FIELD.

DIMENSIONS, UNO. G.C. TO FILED VERIFY DIMENSIONS LOCATED AT SLOPED FRAMING AND / OR CONCRETE SLABS & PADS

MANUFACTURER. TRUSS MANUFACTURER TO NOTIFY ARCHITECT IF TRUSS PROFILES / DIMENSIONS CHANGE.

SEPARATION DISTANCE BETWEEN SHALL COMPLY WITH LOCAL AUTHORITIES BASED ON IRC (R302.1.1): IN CONSTRUCTION USING VINYL OR ALUMINUM SOFFIT MATERIAL, THE FOLLOWING APPLICATION SHALL APPLY. SOFFIT ASSEMBLIES MUST BE SECURELY ATTACHED TO FRAMING MEMBERS AND APPLIED OVER FIRE-RETARDANT-TREATED WOOD, 23/32-INCH WOOD SHEATHING OR 5/8-INCH EXTERIOR GRADE OR MOISTURE RESISTANT GYPSUM BOARD. VENTING REQUIREMENTS SHALL BE PROVIDED IN BOTH SOFFIT AND UNDERLAYMENT. VENTS SHALL BE EITHER NOMINAL 2-INCH CONTINUOUS OR EQUIVALENT INTERMITTENT AND SHALL NOT EXCEED THE MINIMUM NET FREE AIR REQUIREMENTS ESTABLISHED IN SECTION R806.2 BY MORE THAN 50 PERCENT. TOWNHOME CONSTRUCTION SHALL MEET ADDITIONAL REQUIREMENTS OF SECTIONS R302.2.5 AND R302.2.6.

SUBFLOOR / CONCRETE SLAB TO BOTTOM OF









(з)







### ELECTRICAL NOTES

-LIGHT FIXTURES IN CLOSETS TO COMPLY WITH SECTION 410.8 OF THE LATEST VERSION OF THE NEC HANDBOOK -SMOKE/CARBON MONOXIDE DETECTORS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. QUANTITY AND LOCATION OF CARBON MONOXIDE DETECTORS TO BE DETERMINED BY LOCAL AUTHORITY. -LIGHT SWITCHES & OUTLETS LOCATED AT COUNTERTOP SIDEWALLS ARE TO BE A MAXIMUM OF 18" FROM CENTERLINE OF SWITCH/OUTLET TO COUNTERTOP REAR WALL

ELECTRICAL PANEL / METER

MAXIMUM DISTANCE BETWEEN ELECTRICAL PANEL & ELECTRICAL METER (NEC 230.70) TO BE DETERMINED BY LOCAL AUTHORITY.



## ELECTRICAL LEGEND

Ð	120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	•	SMOKE/CARBON MONOXIDE DETECTOR
-4		Тв	DOOR BELL
	CENTER OR 12" ABOVE COUNTERTOPS	DC	DOOR BELL CHIME
€	WEATHER PROOF GFI 120 OUTLET	Θ	DOOR BELL TRANSFORMER
	240 OUTLET, COORDINATE EXACT	\$	WALL SWITCH, 48" A.F.F. TO CENTER
Þ	LOCATION WITH EQUIPMENT SPECIFICATIONS	<b>\$</b> ⊳	DIMMER SWITCH, 48" A.F.F. TO CENTER
Ð	1/2 SWITCHED 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	\$₃	3 WAY SWITCH, 48" A.F.F. TO CENTER
-#	120 QUADRAPLEX OUTLET, 18" A.F.F.	$\mathbf{S}_{4}$	4 WAY SWITCH, 48" A.F.F. TO CENTER
₩	TO CENTER	<b>\$</b> ₃	3 WAY STACKED SWITCH
	USB OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	-	PHONE, 18" A.F.F. TO CENTER, 'W'
۲	FLOOR 120 OUTLET (FLUSH) (TBD IN FIELD W/ OWNER)	◄	DATA, 18" A.F.F. TO CENTER, 'W'
J	JUNCTION BOX	++→	CABLE
¢	CEILING LIGHT FIXTURE (LED)		FLUORESCENT LIGHT FIXTURE
ю	WALL LIGHT FIXTURE		ZENON UNDER CABINET LIGHT TO BE MTD. TO
O	4" RECESSED LIGHT FIXTURE		BOTTOM OF WALL CAB. NEAR FRONT EDGE
	4" RECESSED DAMP LOCATION LIGHT FIXTURE		PLUG MOLD TO BE MTD. TO BOTTOM OF WALL CAB. NEAR WALL
		<b>~~~</b>	LED TAPE LIGHT
	4" RECESSED EYEBALL FIXTURE	DO	DOOR OPENER
$\mathbf{Z}$	FAN/LIGHT RECESSED FIXTURE	50	
Ø	FAN/LIGHT RECESSED DAMP		
~ ~	LOCATION FIXTURE	EM	ELECTRICAL METER
X	CEILING FAN (*PROVIDE BLOCKING)	TWH	TANKLESS WATER HEATER
U		+ HB	HOSE BIBB
2	FLOOD LIGHT	<b>+</b> G	GAS CONNECTION
Ō	THERMOSTAT	+GSO	GAS SHUT-OFF
Ð	EXHAUST FAN		



LIGHT FIXTURES IN CLOSETS TO COMPLY WITH SECTION 410.8 OF THE LATEST VERSION OF THE NEC HANDBOOK -SMOKE/CARBON MONOXIDE DETECTORS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. QUANTITY AND LOCATION OF CARBON MONOXIDE DETECTORS TO BE DETERMINED BY LOCAL AUTHORITY. -LIGHT SWITCHES & OUTLETS LOCATED AT COUNTERTOP SIDEWALLS ARE TO BE A MAXIMUM OF 18" FROM CENTERLINE OF SWITCH/OUTLET TO COUNTERTOP REAR WALL

ELECTRICAL PANEL / METER MAXIMUM DISTANCE BETWEEN ELECTRICAL PANEL & ELECTRICAL METER (NEC 230.70) TO BE DETERMINED BY LOCAL AUTHORITY.





#### GENERAL STRUCTURAL NOTES

- These drawings and its contents are the property of Queen City Consulting and Design, PLLC, (QC) and the client as noted on this page. Distribution to any other parties for purposes other than those directly concerned with the titled project without prior written consent from QC is strictly prohibited.
- The engineer's name present on the seal of these drawings is the engineer of record (EOR).
- Details noted as "Typical" shall be used whenever applicable. Refer to specifications for information not covered by these notes or drawings.
- 4. It is the responsibility of the contractor to verify all dimensions prior to construction. Furthermore, QC will not be held responsible for the contractor's failure to conform to the construction documents, including this structural set, should any non-conformities occur.
- 5. The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and
- property. 6. Any omissions and conflicts between the various elements of the structural drawings and/or specifications shall be brought to the attention of, and resolved with, the engineer before proceeding with any work so involved.
- All construction shall conform to the latest requirements of the North Carolina Residential Code (NCRC), 2018 Edition, plus all local codes and regulations. Seismic design shall be per section R301.2.2 of the 2018 NCRC and is based off of local seismic design categories. 8

#### FOOTING AND FOUNDATION NOTES:

- Foundation Design is based on a minimum allowing bearing capacity of 2,000 PSF. Contact the EOR if bearing capacity is not achieved.
- No excavation shall occur within a 45 degree line projected from the bottom of the building foundation is permitted, unless it is specifically approved by the EOR.
- The bottom of all footings shall extend below the frost line for the region, as specified by the local municipality. However, the bottom of all footings shall be a minimum of 12" below grade.
- Contractor to ensure that all drainage is directed away from the exterior footings (Min. 2% slope).
- Excavations of footings shall be temporarily protected with a 10 mil polyethylene membrane if concrete is not placed within 24 hours of excavation. Do not place concrete or other cementitious materials against subgrade with any deleterious materials present, including but not limited to: water, ice, frost, or loose
- material 7. All footings are to have minimum 2" projection on each side of foundation walls (except for monolithic slab foundations).

#### CONCRETE

- Poured concrete is to have a minimum compressive strength of 3000 psi at 28 days.
- Aggregates for normal weight concrete shall conform to ASTM C33.
- All materials used for concrete shall conform to ACI 318, ACI 301, or ASTM C1157.
- The placing of all concrete shall be in accordance with ACI 318 and ASTM C94 requirements
- Admixtures may be used with prior approval of the EOR. Admixtures shall comply with ASTM C494 and C1017.
- Concrete slabs-on-grade shall be constructed in a manner that complies with ACI 302.1R-96.
- Control or saw cut joints shall be cut to a minimum of 1/4 of the thickness of the respective concrete element. Control joints located within interior and exterior slabs-on-grade shall be spaced at a maximum of 12' O.C. Control joints shall comply with ACI 301.

#### CONCRETE REINFORCEMENT:

- Bar reinforcement shall be conform to ASTM A615, grade 60 steel.
- The following minimum clear cover shall be provided over reinforcing bars:
- 2.1. Concrete exposed to earth = 3"
- 2.2. Concrete exposed to weather = 1-1/2"
- 2.3. Slabs not exposed to weather = 3/4"
- 2.4. Concrete Beams & Columns = 1-1/2"
- Brick and/or porous material shall not be used to support footing steel off the ground. Plastic rebar chairs or precast concrete dobies may be used.
- Splices in reinforcing steel shall be a minimum of 45x the diameter, up to a #6 rebar. Rebar larger than #6 requires a minimum lap splice of 56x the diameter. All concrete walls shall be doweled to their supporting footings, beams, pads, etc. with bars of the same size and spacing as the vertical bars located within the wall, unless otherwise noted. Anchorage of dowels shall be the equivalent of a bar splice.

# GENERAL WOOD FRAMING:

- 1. All wood framing members are designed to be Spruce-Pine-Fir (SPF) #2, unless otherwise noted on the plan. Grade marks shall be made by a recognized grading
- 2. Framing members exposed to weather or in direct contact with soil, concrete, or masonry shall be pressure treated Spruce-Pine-Fir #2 and shall comply with the AWPA standard C-15.
- 3. All fasteners such as nails, bolts, screws, anchor bolts, etc. attaching pressure treated or fire-retardant treated wood shall be hot-dipped zinc coated galvanized or stainless steel (ASTM A153).
- 4. LVL engineered wood shall have the following minimum design values:
  - = 1,900,000 psi 4.1.E
  - 4.2. Fb = 2600 psi 4.3. Fv = 285 psi
  - 4.4.Ft = 1555 psi
- 5 PSL engineered wood shall have the following minimum design values:
  - 5.1.E = 2.000.000 psi
  - 5.2. Fb = 2900 psi
  - 5.3. Fv 5.4. Ft = 290 psi
  - = 1755 psi

6. LSL engineered wood shall have the following minimum design values:

- 6.1.E = 1,550,000 psi
- 6.2. Fb = 2250 psi
- 6.3. Fv = 400 psi
- 6.4. Ft = 1075 ps

7. All bearing headers to be 2-2x6 supported with minimum (1) 2x4 jack stud and (1) 2x4 king stud at each end, unless noted otherwise on the plans. Non-load bearing headers shall be minimum 2-2x4.

- Solid blocking is to be installed at all point load through floor levels to the foundation or to the nearest structural element
- All wood structural members that are specified are minimum sizes. Contractor may install larger sizes for ease of construction, if desired.
- 10. All nails shall be common nails, unless noted otherwise on plans and details.
- 11. All lag screws are to be predrilled. Drill diameter is to be 60 percent of the shank diameter. In addition, lag screws shall comply with ANSI/ASME standard B18.2.1-1981. 12. All bolt heads and nuts bearing on wood shall have standard cut washers. Holes for bolts shall be bored 1/16" larger than the nominal bolt diameter
- 13. Provide full bearing where all beams meet supporting framing members.
- 14. Unless otherwise noted on plans, size, height, and spacing of wood studs shall be in accordance with section R602.3.1 of the 2018 North Carolina Residential Code. Wood framed walls shall consist of Spruce-Pine-Fir No.2 graded material.
- 15. Unless otherwise noted, four-ply LVL beams shall have plies fastened together with two rows of 1/2" diameter bolts spaced at 16" o.c. The bolts shall be located a minimum of 2-1/2" and a maximum of 3-1/2" from the top of bottom of the beam

## ROOF FRAMING NOTES:

- Truss Built Roofs
  - 1.1. All roof trusses must be built in accordance with the truss manufacturer's requirements. Tie-down connections to resist uplift shall be installed where required. When roof truss manufacturers do not provide the required connectors, it is the responsibility of the contractor to notify the roof truss engineer or the EOR to provide an adequate connection
  - 1.2. Roof truss layouts are to be in compliance with the overall design specified on the plans. All deviations are to be brought to the attention of the EOR prior to installation.
  - 1.3. Roof trusses shall be braced per the manufacturer's instructions and per the SBCA Building Component Safety Information (BCSI) Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Roof Trusses.
  - 1.4. Provide 2x4 ladder framing spaced at 24" o.c. between adjacent roof trusses where false dormers are located.
  - 1.5. Install minimum 7/16" OSB roof sheathing.
  - 1.6. Install roof trusses per section R802.10 in the 2018 NCRC. Where truss heels exceed 9-1/4" and are located over braced wall panels, blocking is to be installed per section R602.10.5 of the 2018 NCRC.
- 2 Stick Framed Roofs
  - 2.1. Collar ties shall be 2x6 spaced at 48" o.c. at all ridges unless noted otherwise and connected in the upper third of the attic space using (3) 10d common nails. 2.2. Fur down all ridges as needed so that rafters have full contact.

2.3. Ceiling joists when erected parallel to rafters must be sistered to rafters and secured as per table R802.5.1(a) of the 2018 North Carolina Residential Code. 2.4. In addition to the NCRC fastener schedule, unless noted otherwise on the plan, roof members shall be tied down with additional metal connectors. Install a Simpson H2.5A connector at every rafter to fasten the lower end of the rafter to the top plate or beam below. 2.5. Install minimum 7/16" OSB roof sheathing.



#### DESIGN SPECIFICATIONS:

- Construction Type: Residential
- Applicable Building Codes
- 2018 North Carolina Residential Building Code with All Loca
- Amendments ASCE 7-10: Minimum Design Loads for Buildings and Other
- Structures
- Ultimate Design Wind Speed: 130MPH, EXPOSURE B
  - Assumed Soil Bearing Capacity: 2000psf

Component and Cladding loads shall be derived per Tables R301.2( R301.2(3)

#### SEAL APPLIES TO STRUCTURAL ONLY

ENGINEERING SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. QC ASSUMES NO LIABILITY FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, O DEVIATIONS/DISCREPANCIES THAT MAY OCCUR IN THE PLAN. ANY DEVIATIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF QUEEN CITY CONSULTING AND DESIGN PLLC

THE ARCHITECTURAL PLANS USED FOR STRUCTURAL DRAWINGS AN ANALYSIS HAVE BEEN PROVIDED BY COX ARCHITECTURE AND DESIGN, PLLC AND HAVE BEEN COMPLETED/REVISED ON 2/13/24. NOTIFY QC OF ANY ALTERATIONS MADE TO THE PLANS AFTER THE DATE SHOWN HEREIN

Page Symbol	Description
CS	Cover Sheet, Specifications, Revisions
F-1m	Monolithic Slab Foundation
S-1	First Floor Framing Plan
S-2	Second Floor Framing Plan
D-1m	Monolithic Slab Details
D-1f	Framing Details

	STRUCTURAL PLANS PREPARED FOR:
	<b>BIRCH - RH VERSION</b>
PROJECT ADDRESS:	OWNER:

OWNER: LGI Home: 7201 Creedmore Rd. Suite 147 Raleigh, NC 27613

Description

DESIGNER: Queen City Consulting and Design, PLLC. 2039 Jesup Dr Charlotte, NC 28208

Date

Revision No.

[		LIVE LOADS
	Roof 2x Conventional	20 PSF
	Roof Truss	20 PSF
	Attic Roof Truss	60 PSF
	Floor Live Typ. Dwelling	40 PSF
	Sleeping Areas	30 PSF
	Decks	40 PSF
	Passenger Vehicle Garage	50 PSF
ĺ	Balconies	40 PSF
-	Attics with Storage	20 PSF
	Attics without Storage	10 PSF
	Ground Snow Load	15 PSF
[		DEAD LOADS
	Roof 2x Conventional	15 PSF
	Roof Truss	20 PSF
-	Conventional 2x Floor	10 PSF
	I-Joist	15 PSF
	Floor Truss	15 PSF

SALESS STY CONSISTENT AND DESINGLY FLUE No. 12428 OF AUTO CF AUTO
OF HERSEN AL
CulENT: LGI Homes
SHEET NAME: COVER SHEET
CLIENT: LGI Homes
PLAN NAME: BIRCH - RH VERSION
NEIGHBORHOOD: TBD
LOT AND ADDRESS: LOT # TBD
PROJECT NUMBER: LGI240014
DRAWN BY: CTB
DATE: 2/14/2024 SCALE: 1/4"=1'-0" ON 22"x34" 1/8"=1'-0" ON 11"x17"
CS

#### MONOSLAB FOUNDATION NOTES:

- DISCLAIMER: ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION, PLUS ALL LOCAL CODES AND REGLUATIONS. THE FOUNDATION HAS BEEN DESIGNED WITH AN ASSUMED 2000 PSF MINIMUM ALLOWABLE SOIL BEARING CAPACITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOIL BEARING
- CAPACITY PRIOR TO CONCRETE PLACEMENT. CONTACT QC IF DESIRED BEARING CAPACITY IS NOT ACHIEVED. ACHIEVED. ALL POURED CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- PLACE CONCRETE IN ACCORDANCE WITH ACI STANDARD 318. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION, AS
- SPECIFIED BY THE LOCAL MUNICIPALITY, HOWEVER, THE BOTTOM OF <u>ALL</u> FOOTINGS SHALL BE A MINIMUM OF 12" BELOW GRADE. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS IS 4'. FOR GREATER THAN 4',
- REFER TO SECTION R404.10 FTHE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE, OR CONTACT QC FOR ADDITIONAL ENGINEERING. PERIMETER INSULATION IS TO BE INSTALLED PER THE 2018 NCRC AND PER LOCAL MUNICIPALITY.
- WOOD SILL PLATES AT LOAD BEARING AND BRACED WALLS SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER BOLTS SPACED AT A MAXIMUM OF 6' O.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION. BOLTS SHALL EXTEND A MINIMUM OF 7" INTO CONCRETE AND SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE PLATE. BOLTS TO BE LOCATED NOT MORE THAN 12" FROM ANY CORNERS OR BREAKS WITHIN THE SILL PLATE. ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY
- ENGINEER OR CODE OFFICIAL
- ENVINCEN UN CUDE UPFICIAL. DIMENSIONS SHOWN ON FOUNDATION DRAWINGS ARE TO EDGE OF FRAMING AND <u>NOT</u> TO EDGE OF BRICK VENEER.
- OF BRICK VENEER. WITH CLASS 1 SOILS (TABLE R405.1), A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED. ALL GRADING AND FOUNDATION WORK MUST BE OBSERVED AND APPROVED PRIOR TO PLACEMENT OF CONCRETE.
- OF CONCRETE. CONCRETE SLABS SHALL BE 4" THICK AND CONSTRUCTED OUT OF 3000 PSI MIN. COMPRESSIVE STRENGTH WITH 6"x6" W1.4xW1.4 WELDED WIRE FABRIC OR FIBERMESH CONCRETE OVER 10 MIL. THICK YAPOR BARRIER ON 95% COMPACTED FLIL, VERIFIED BY EITHER ENGINEER OR COED GFFICUL. CONCRETE CURBS THAT ARE USED TO SUPPORT PORTAL FRAME WALLS SHALL BE A MINIMUM OF 8"
- WIDE

SJ = SINGLE JOIST
FT = FLOOR TRUSS
DR = DOUBLE RAFTER
TR = TRIPLE RAFTER
OC = ON CENTER
PLFA = POINT LOAD FROM ABOVE
NTS = NOT TO SCALE
UNO = UNLESS NOTED OTHERWISE
K = KING STUD
MANUF = MANUFACTURER



# ANCHC ANCHOR 1/2" DIA. A307 BOLTS W/ 90 DEGREE BEND SIMPSON MASA MUDSILL ANCHOR 1/2" DIAMETER THREADED ROD W/ SET-3G EPOX 1/2" DIAMETER SIMPSON TITEN CONCRETE SCREW

LABEL
A
В
С
D
E

DRAGE SCHEDULE		
	MIN. SPACING	MIN. CONC. EMBEDMENT
	6'-0"	7"
	6'-0"	4"
۲Y	6'-0"	7"
NS	6'-0"	4-1/4"

FOOTING SCHEDULE			
	SIZE	REBAR	
	24"x24"x10"	N/A	
	30"X30"X10"	N/A	
	36"X36"X12"	#4 @ 8" O.C. EA WAY	
	42"X42"X12"	#4 @ 8" O.C. EA WAY	
	48"X48"X12"	#5 @ 8" O.C. EA WAY	

SLEEN CTV SLEEN CTV COLUMN THE AND DEBNEN, FLLC OF AUTOMIN
OF CARO
CLIENT: LGI Homes
SHEET NAME: MONOLITHIC SLAB FOUNDATION
CLIENT: LGI Homes
PLAN NAME: BIRCH - RH VERSION
TBD LOT AND ADDRESS: LOT # TBD
PROJECT NUMBER: LGI240014
DRAWN BY: CTB DATE: 2/14/2024
SCALE: 1/4"=1'-0" ON 22"x34" 1/8"=1'-0" ON 11"x17" PAGE:
F-1.1m

#### FRAMING NOTES:

- REFER TO COVER PAGE FOR ADDITIONAL NOTES ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA
- ALL CONTINUE TO BE INTERNET OF THE OFFENT OF
- FOUNDATION OR TO THE NEAREST STRUCTURAL ELEMENT. BLOCKING SHALL BE EQUAL TO OR GREATER THAN THE SUPPORT ABOVE. BUILT-UP WOOD COLUMNS CONSISTING OF MULTIPLE STUDS SHALL HAVE EACH LAMINATION NAILED WITH 16D NAILS SPACED AT 9" O.C. FOR BUILT-UP COLUMNS CONSISTING OF (4) PLIES OR
- MORE, SECURE PLIES TOGETHER WITH HORIZONTAL SIMPSON CS-16 COIL STRAPS LOCATED AT QUARTER POINTS.
- CONTRACTOR SHALL ENSURE THAT ALL BEAMS, HEADERS, AND STRUCTURAL COMPONENTS ARE CUT NOT A STARLE TO THE SUPPORTING MEMBERS. ANY GAPS IN THE FRAMING SHALL BE SHIMMED APPROPRIATELY WITH EITHER METAL SHIMS OF WOOD SHIMS AS NECESSARY. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. ANY HEADERS INSTALLED THAT ARE GREATER IN
- SIZE ARE AN ADEQUATE REPLACEMENTS PROVIDED THE MATERIAL IS OF THE SAME OR GREATER STRUCTURAL PROPERTIES.
- S INDU LONAL FROPENITES. WHERE TOP PLATE HAS BEEN CUT TO ACCOMMODATE FLUSH HEADERS/BEAMS, INSTALL A MINIMUM 16<sup>-1</sup> LONG HORIZONTAL C5-16 STRAP EXTENDING 12<sup>+1</sup> PAST THE BREAK ON EACH SIDE. UNLESS OTHERWISE NOTED, FOUR-PLY LVL BEAMS SHALL HAVE PUES FASTENED TOGETHER WITH TWO (2) ROWS OF 1/2<sup>-1</sup> DIAMETER BOLTS SPACED AT 16<sup>-1</sup> O.C. THE BOLTS SHALL BE LOCATED A MINIMUM OF 2-1/2" AND A MAXIMUM OF 3-1/2" FROM THE TOP AND BOTTOM OF THE BEAM. ALL LOAD BEARING WALLS TO BE 2X4 U.N.O.

•	ABBREVIATIONS:		
	DJ = DOUBLE JOIST	SJ = SINGLE JOIST	
	GT = GIRDER TRUSS	FT = FLOOR TRUSS	
	SC = STUD COLUMN	DR = DOUBLE RAFTER	
	EE = EACH END	TR = TRIPLE RAFTER	
	TJ = TRIPLE JOIST	OC = ON CENTER	
	CL = CENTERLINE	PLFA = POINT LOAD FROM ABOVE	
	COL = COLUMN	NTS = NOT TO SCALE	
	PT = PRESSURE TREATED	UNO = UNLESS NOTED OTHERWISE	
	J = JACK STUD	K = KING STUD	
	CONT = CONTINUOUS	MANUF = MANUFACTURER	

LLOLIND.	
#J	# OF JACK STUDS
$\boxtimes$	STUD COLUMN
	POINT LOAD FROM ABOVE
	LOAD BEARING WALL

NON LOAD	BEARING WA	L
		-

HEADER SCHEDULE:		
LABEL	SIZE	
A	2x6 W/ (1) JACK STUD E.E.*	
В	2x8 W/ (2) JACK STUDS E.E.*	
С	2x10 W/ (2) JACK STUDS E.E.*	
D	2x12 W/ (2) JACK STUDS E.E.*	
E	9-1/4" LVL W/ (3) JACK STUDS E.E.*	
F	11-7/8" LVL W/ (3) JACK STUDS E.E. *	
*THE AMOUNT OF PLYS FOR THE HEADER IS DETERMINED BY THE WIDTH OF THE WALL (2X4 WALL=2 PLYS, 2X6 WALL=3 PLYS, ETC.). AMOUNT OF JACK STUDS SHOWN ON PLAN TAKE PRECEDENCE OVER TABLE.		

KING STUD SCHEDULE:	
HEADER SPAN	MINIMUM KING STUDS E.E.
3'-0" OR LESS	(1)
3'-0" TO 6'-0"	(2)
6'-0" TO 9'-0"	(3)
9'-0" TO 12'-0"	(4)

### WALL STUD NOTES:

12'-0" TO 16'-0"

ALL STRUCTURAL LOAD BEARING WALLS SHALL BE CONSTRUCTED OUT OF 2X4 OR 2X6 STUDS AT 16" O.C. U.N.O. FOR UP TO 10' WALLS ALL NON LOAD BEARING WALLS SHALL BE CONSTRUCTED OUT OF 2X4 OR 2X6 STUDS AT 24" O.C.

(6)

- ALL NON COND BALL WALLS SHALL BE CONSTRUCTED WITH 2X4 STUDS AT 12" O.C. OR 2X6 STUDS AT 14" O.C. OR 2X6 STUDS AT 16" O.C. WITH CROSS BRACING AT 6-0" O.C. VERTICALLY OR ACCORDING TO THE CHART BELOW:

HEIGHT (PLATE TO PLATE)	STUD SIZE	SPACING
12'-0"	2X4	12" O.C.
15'-0"	2X6	16" O.C.
17'-0"	(2) 2X4/2X6	12" O.C./12" O.C.
21'-0"	(2) 2X6/2X8	16" O.C./12" O.C.
25'-0"	(2) 2X6	12" O.C.

#### BRICK LINTEL SCHEDULE:

SPAN	HEIGHT OF BRICK	LINTEL	
3'-0" OR LESS	20' MAX	L3"x3"x1/4"	
3'-0" TO 6'-0"	6' MAX 12' MAX 20' MAX	L3"x3"x1/4" L4"x3"x1/4" L5"x3-1/2"x5/16"	
6'-0" TO 12'-0"	6' MAX 12' MAX	L5"x3-1/2"x5/16" L6x3-1/2"x5/16"	
12'-0" TO 16'-0"	12' MAX	L8"x4"x1/2"	
ATTACH ALL LINTELS TO THE SUPPORTING HEADER WITH (2) ROWS OF MINIMUM     3.5" LONG 1/2" DIAMETER LAG SCREWS AT 16" O.C.     ENDS OF LINTEL SHALL BEAR AT LEAST 3.5" IN THE ADJACENT BRICK			

NOTE: WALL BRACING HAS BEEN ANALYZED USING CS-WSP PER SECTION R602.10 OF THE 2018 NCRC. MIXED METHODS PER TABLE R602.10.1 ARE DESIGNATED ON THE PLAN.

NOTE: FLOOR JOISTS MAY INCLUDE FLOOR TRUSSES OR I-JOISTS, AS CONTRACTOR DESIRES.



_	
1	WALL BRACING NOT
	REFER TO COU     BRACING DESI WIND SPEED I     WALL BRACING DESI WIND SPEED I     WALL BRACING COMMON BR SHOWN WITH     ALL BRACING MINIMUM PA NCRC.     BRACED WALL SPACED NO G     INTERIOR OF I     GYPSUM, U.N HOLD DOWNS AND FIGURE F     REFER TO THE
	METHOD
	CONTINUOUS SHEAT WOOD STRUCTURAL (CS-WSP)
	GYPSUM BOARD (
	WOOD STRUCTURAL (WSP)
	PORTAL FRAME (I
Ľ	
ſ	TRUSSED BOOF FRA
	REFER TO COV     ALL ROOF TRU     PER MANUFAG     GREATER.     ROOF TRUSSE:
	<ul> <li>ROOF TRUSSE</li> <li>BUILDING COM</li> </ul>

- . JSSF
- ATTIC PLATFORM.

		TYPICAL HANGER BEAI	RS FOR JOIST &	
		-50	WPSON-	-USP-
	MEMBERS	HA	ANGER	HANGER JUS28
	2x10 2x12	LU: LU:	5210 5210	JUS210 JUS210
	2-2x8 2-2x10 2-2x12	HU HU	1528-2 15210-2 15217-2	JUS28-2 JUS210-2 IUS212-2
	3-2x8 3-2x10	LU: LU:	S28-3 S210-3	JUS28-3 JUS210-3
	3-2x12 2-1½"x9½" LVL	HU HG	1212-3 MIN. 5US410	JUS212-3 MIN. THDH410
	2-1¼"x9½" LVL 2-1¼"x11¼" LVL	HG HG	US410 US412	THDH410 THDH412
	2-1¾"x11½" LVL 2-1¾"x14" LVL	HG HG	iUS412 iUS414	THDH412 THDH414
	2-1% x16" LVL 2-1% x18" LVL	HG HG	US414 US414	THDH414 THDH414
	2-1%*X24 LVL 3-1%*X9%* LVL	HG	US5.50/10	THDH414 THDH610
	3-124 X372 LVL 3-124"X112" LVL 2-124"x112" LVL	HG	US5.50/12	THDH610 THDH612
	3-1% x11% LVL 3-1% x14" LVL 3-1% x16" LVI	HG	US5.50/14	THDH614 THDH614
	3-1¼"x18" LVL 3-1½"x24" LVL	HG	US5.50/14 US5.50/14	THDH614 THDH614
	4-1¼"x9¼" LVL 4-1¼"x9½" LVL	HG	US7.25/10 US7.25/10	THDH7210 THDH7210
	4-1¾"x11¼" LVL 4-1¾"x11¾" LVL	HG HG	US7.25/12 US7.25/12	THDH7212 THDH7212
	4-1¾"×14" LVL 4-1¾"×16" LVL	HG HG	US7.25/14 iUS7.25/14	THDH7214 THDH7214
	4-1⅔"x18" LVL	HG	iU\$7.25/14	THDH7214
	NO - N.	TE: ALL HANGERS BY SIMPSO AME EQUIVALENTS ACCEPTA	N STRONG TIE CO., INC. (BI BLE)	RAND
	TRUSS	UPLIFT CONNE	CTOR SCHED	ULE
	MAX. UPLIFT ROC	F TO WALL FL	OOR TO FLOOR	FLOOR TO FND
	1200 LBS (7	112.3A 2) H2.5A C	FLR WALL SHEATHING &	DTT2Z
	1450 LBS	HTS20 C	\$16 (END = 11")	DTT2Z
	2000 LBS (2 2900 LBS (2	2) MTS20 (2) 2) HTS20 (2)	CS16 (END = 11") CS16 (END = 11")	DTT2Z HTT4
	3685 LBS LG	T3-SDS2.5	MSTC52	HTT4
	1. ALL PRODUCTS LISTED A MANUFACTURER'S SPECIFIC	RE SIMPSON STRONG-TIE. CATIONS.	. EQUIVALENT PRODUCT	IS MAY BE USED PER
	2. UPLIFT VALUES LISTED A 3. REFER TO TRUSS LAYOU	RE FOR SPF #2 GRADE ME T PER MANUE, FOR UPLIE	EMBERS. T VALUES AND TRUSS TO	) TRUSS
	CONNECTIONS. CONNECTO	RS SPECIFIED BY TRUSS N	IANUFACTURER OVERRI	DE THOSE LISTED
	4. CONTACT QC FOR REQU	IRED CONNECTORS WHEN	N LOADS EXCEED THOSE	LISTED ABOVE.
ATTACT (2) ZAP STUD COLUMN TO FOUNDATION WITH SST ETTP2     HOLD DOWN, OR EQUIVALENT HARDWARE.     BRACING NOTES:     BRACING NOTES:     BRACING SIGN CONFORMS TO THE 2018 NCRC AND ALL LOCAL AMENDMENTS FOR A MAXIMUM WIND SPEED OF 130 MPH AND SEISMIC ZONES A-C				
COMMON BRACING S SHOWN WITHIN TAB ALL BRACING COMPC MINIMUM PANEL LEP NCRC. BRACED WALL PANEL SPACED NO GRACIEN UNTERIOR OF EXTERIC GYPSUM, U.N.O. HOLD DOWNS SHALL REFER TO THE CHART	METHOD USED, WHERE AP E ROQ2 10.1 ARE DESIGNA INENTS SHALL COMPLY TO VGTH SHALL BE 24" OR THE S SHALL BE WITHIN 12'-0" THAN 21'. R BRACED WALLS SHALL B BE INSTALLED FOR BRACED BELOW FOR BRACED WALL SHOW FOR BRACED WALL	PLICABLE MIXED METH TED ON THE PLAN. SECTION R602.10.1 OF MINIMUM AS STATED FROM THE ENDS OF A E E SHEATHED CONTINUE WALL END CONDITIOI L METHODS AND CONN	IODS, OTHER THAN C THE 2018 NCRC. IN R602.10.1 OF THE BRACED WALL LINE AI DUSLY WITH 1/2" THI DUSLY WITH 1/2" THI NS PER SECTION R602 IECTIONS.	2018 ND CK .10.4
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CON	NECTION
NTINUOUS SHEATHING OD STRUCTURAL PANEL (CS-WSP)	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS EDGE AND 12" O.C	AT 6" O.C. ON C. ON FIELD
GYPSUM BOARD (GB)	GYPSUM BOARD	1/2"	5d COOLER NAILS A EDGE AND F	T 7" O.C. ON FIELD
OD STRUCTURAL PANEL (WSP)	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS EDGE AND 12" O.C	AT 6" O.C. ON 2. ON FIELD
PORTAL FRAME (PF)	WOOD STRUCTURAL PANEL	7/16"	SEE DETAIL 1	/D-1f
				]
SED ROOF FRAMING NOTES: REFER TO COVER PAGE FOR ADDITIONAL WOOD FRAMING NOTES ALL ROOF TRUSSES SHALL BE ATTACHED TO WALL PLATES WITH MINIMUM (1) SIMPSON H2.5A OR PER MANUFACTURER'S INSTRUCTIONS OR PER SECTION R802.10 IN THE 2018 NCRC, WHICHEVER IS GREATER. ROOF TRUSSES SARE TO BE INSTALLED PER SECTION R802.10 IN THE 2018 NCRC ROOF TRUSSES SHALL BE BRACED PER THE MANUFACTURER'S INSTRUCTIONS AND PER THE SBCA BUILDING COMPONENT SAFETY INFORMATION (BCS) GUIDE TO GODO PRACTICE FOR HANDING, INSTALLING & BRACIM GO PER THE LATE CONVECTED WOOD TRUSSES.				

DO NOT CUT OR ALTER ROOF TRUSSES.

ROOF TRUSS MANUFACTURER SHALL VERIFY AND DESIGN FOR POSITION OF PULL DOWN STAIRS AND

WHERE TRUSS HEELS EXCEED 9-1/4" AND ARE LOCATED OVER BRACED WALL PANELS AS SHOWN ON THE PLANS, BLOCKING SHALL BE INSTALLED PER SECTION R602.10.5 OF THE 2018 NCRC.

QUEEN CITY
CLENT: LGI Homes
SHEET NAME: FIRST FLOOR FRAMING PLAN
CLIENT: LGI Homes PLAN NAME: BIRCH - RH VERSION
NEIGHBORHOOD: TBD LOT AND ADDRESS: LOT # TBD
PROJECT NUMBER: LGI240014 DRAWN BY:
CTB DATE: 2/14/2024 SCALE: 1/4"=1'-0" ON 22"x34" 1/4"=1'-0" ON 11"x17"
PAGE: S-1.1

#### FRAMING NOTES:

- REFER TO COVER PAGE FOR ADDITIONAL NOTES ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA
- RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE EOR SHALL REVIEW EWP AND TRUSS LAYOUTS FOR ACCURACY PRIOR TO CONSTRUCTION.
- SOLID BLOCKING IS TO BE INSTALLED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO THE NEAREST STRUCTURAL ELEMENT. BLOCKING SHALL BE EQUAL TO OR GREATER THAN THE SUPPORT ABOVE.
- NULT-UP WOOD COLUMNS CONSISTING OF MULTIPLE STUDS SHALL HAVE EACH LAMINATION NAILED WITH 16D NAILS SPACED AT 9" O.C. FOR BUILT-UP COLUMNS CONSISTING OF (4) PLIES OR MORE, SECURE PLIES TOGETHER WITH HORIZONTAL SIMPSON CS-16 COIL STRAPS LOCATED AT
- QUARTER POINTS. CONTRACTOR SHALL ENSURE THAT ALL BEAMS, HEADERS, AND STRUCTURAL COMPONENTS ARE CUT WARDEN INTEL CONTROL TIME ALL DEAMS, INCOLOS, IND STROCTORE COMPORED SHALL FULLY BEARING ON THE SUPPORTING MEMBERS, ANY GAPS IN THE FRAMING SHALL BE SHIMMED APPROPRIATELY WITH EITHER METAL SHIMS OF WOOD SHIMS AS NECESSARY. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, ANY HEADERS INSTALLED THAT ARE GREATER IN
- SIZE ARE AN ADEQUATE REPLACEMENTS PROVIDED THE MATERIAL IS OF THE SAME OR GREATER STRUCTURAL PROPERTIES.
- WHERE TOP PLATE HAS BEEN CUT TO ACCOMMODATE FLUSH HEADERS/BEAMS, INSTALL A MINIMUM 16" LONG HORIZONTAL CS-16 STRAP EXTENDING 12" PAST THE BREAK ON EACH SIDE.
- UNLESS OTHERWISE NOTED, FOUR-PLY LVL BEAMS SHALL HAVE PLIES FASTENED TOGETHER WITH TWO (2) ROWS OF 1/2" DIAMETER BOLTS SPACED AT 16" O.C. THE BOLTS SHALL BE LOCATED A
- MINIMUM OF 2-1/2" AND A MAXIMUM OF 3-1/2" FROM THE TOP AND BOTTOM OF THE BEAM. ALL LOAD BEARING WALLS TO BE 2X4 U.N.O. ABBREVIATIONS:
- DJ = DOUBLE JOIST GT = GIRDER TRUSS SJ = SINGLE JOIST FT = FLOOR TRUSS SC = STUD COLUMN DR = DOUBLE RAFTER EE = EACH END TR = TRIPLE RAFTER TJ = TRIPLE JOIST OC = ON CENTER CL = CENTERLINE COL = COLUMN PLFA = POINT LOAD FROM ABOVE NTS = NOT TO SCALE
- PT = PRESSURE TREATED UNO = UNLESS NOTED OTHERWISE J = JACK STUD CONT = CONTINUOUS K = KING STUD MANUF = MANUFACTURER

LEGEND:

#J # OF JACK STUDS STUD COLUMN
 POINT LOAD FROM ABOVE
 LOAD BEARING WALL
 NON LOAD BEARING WALL

## HEADER SCHEDULE:

LABEL	SIZE	
A	2x6 W/ (1) JACK STUD E.E.*	
В	2x8 W/ (2) JACK STUDS E.E.*	
C	2x10 W/ (2) JACK STUDS E.E.*	
D	2x12 W/ (2) JACK STUDS E.E.*	
E	9-1/4" LVL W/ (3) JACK STUDS E.E.*	
F	11-7/8" LVL W/ (3) JACK STUDS E.E. *	
*THE AMOUNT OF PLYS FOR THE HEADER IS DETERMINED BY THE WIDTH OF THE WALL (2X4 WALL=2 PLYS, 2X6 WALL=3 PLYS, ETC.). AMOUNT OF JACK STUDS SHOWN ON PLAN TAKE PRECEDENCE OVER TABLE.		
KING STUD SCHEDULE:		

#### MINIMUM KING STUDS E.E. HEADER SPAN 3'-0" OR LESS 3'-0" TO 6'-0" 6'-0" TO 9'-0" 9'-0" TO 12'-0' 12'-0" TO 16'-0

WALL STUD NOTES:

- ALL STRUCTURAL LOAD BEARING WALLS SHALL BE CONSTRUCTED OUT OF 2X4 OR 2X6 STUDS AT 16" ALL NON LOAD BEARING WALLS SHALL BE CONSTRUCTED OUT OF 2X4 OR 2X6 STUDS AT 24" O.C.
- U.N.O. FOR UP TO 10' WALLS BALLOON FRAMED WALLS SHALL BE CONSTRUCTED WITH 2X4 STUDS AT 12" O.C. OR 2X6 STUDS AT 16" O.C. WITH CROSS BRACING AT 6'-0" O.C. VERTICALLY OR ACCORDING TO THE CHART BELOW:

HEIGHT (PLATE TO PLATE)	STUD SIZE	SPACING
12'-0"	2X4	12" O.C.
15'-0"	2X6	16" O.C.
17'-0"	(2) 2X4/2X6	12" O.C./12" O.C.
21'-0"	(2) 2X6/2X8	16" O.C./12" O.C.
25'-0"	(2) 2X6	12" O.C.

### BRICK LINTEL SCHEDULE

II -	non en nee oon eo oee		
	SPAN	HEIGHT OF BRICK	LINTEL
	3'-0" OR LESS	20' MAX	L3"x3"x1/4"
	3'-0" TO 6'-0"	6' MAX 12' MAX 20' MAX	L3"x3"x1/4" L4"x3"x1/4" L5"x3-1/2"x5/16"
	6'-0" TO 12'-0"	6' MAX 12' MAX	L5"x3-1/2"x5/16" L6x3-1/2"x5/16"
	12'-0" TO 16'-0"	12' MAX	L8"x4"x1/2"
•	ATTACH ALL LINTELS TO THE SUPP 3.5" LONG 1/2" DIAMETER LAG SCI ENDS OF LINTEL SHALL BEAR AT LE	ORTING HEADI REWS AT 16" C AST 3.5" IN TH	ER WITH (2) ROWS OF MINIMU ).C. IE ADJACENT BRICK

NOTE: WALL BRACING HAS BEEN ANALYZED USING CS-WSP PER SECTION R602.10 OF THE 2018 NCRC. MIXED METHODS PER TABLE R602.10.1 ARE DESIGNATED ON THE PLAN.





WALL BRACING

	MEMDEDS			
	2:08		LUS28	JUS28
	2x10 2x12		LUS210 LUS210	JUS210 JUS210
	2-2x8 2-2x10		HUS28-2 HUS210-2	JUS28-2 JUS210-2
	2-2x12		HUS212-2	JUS212-2
	3-2x8 3-2x10		LUS28-3 LUS210-3	JUS28-3 JUS210-3
	3-2x12		HU212-3 MIN.	JUS212-3 MIN.
	2-1¾"x9¾" LVL 2-1¾"s9¼" LVL		HGUS410	THDH410
	2-134 x392 LVL 2-134"x1134" LVL		HGUS410	THDH410 THDH412
	2-1¾"x11¾" LVL		HGUS412	THDH412
	2-1%***14** LVL 2-1%***16** LVL		HGUS414 HGUS414	THDH414 THDH414
	2-13/4"x18" LVL		HGUS414	THDH414
	2-1¾"x24" LVL 2-1¾"s0L" LVL		HGUS414 HGUSE E0/10	THDH414
	3-134"x9½" LVL		HGUS5.50/10	THDH610
	3-134"x1114" LVL		HGUS5.50/12	THDH612
	3-124 X1128 LVL 3-124"x14" LVL		HGUS5.50/12 HGUS5.50/14	THDH612 THDH614
	3-134"x16" LVL		HGUS5.50/14	THDH614
	3-1%"x18" LVL 2-1%"y24" LVI		HGUS5.50/14	THDH614
	4-1¾"x9¾" LVL		HGU\$7.25/10	THDH014 THDH7210
	4-1% x9½" LVL		HGU\$7.25/10	THDH7210
	4-1%"x11%" LVL 4-1%"x11%" IVI		HGUS7.25/12 HGUS7.25/12	THDH7212 THDH7212
	4-1∛"x14" LVL		HGU\$7.25/14	THDH7214
	4-1% x16" LVL		HGU\$7.25/14	THDH7214
	4-1% X18TAT			
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	TRUS	S UPLIFT CO	ONNECTOR SC	CHEDULE
F	MAX. UPLIFT R	OOF TO WALL	FLOOR TO FLOOF	FLOOR TO FN
F	600 LBS	H2.5A	PER WALL SHE	ATHING & FASTENERS
	1200185	(2) H2 54	CS16 (END = 11"	
-	1/501.05	UTC20	CS16 (END = 11"	) DTT2Z
-	1450 LB5	(3) MTC20	(3) CC10 (END = 11	01122
-	2000 LBS	(2) MTS20	(2) CS16 (END = 1)	(*) DTT22
	2900 LBS	(2) HTS20	(2) CS16 (END = 11	.") HTT4
	3685 LBS	LGT3-SDS2.5	MSTC52	HTT4
	<ul> <li>ATTACH (2) 284</li> </ul>	STUD COLUMN TO	T FOLINDATION WITH	SST I TTP2
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ROOF TRUSSES ARE TO BE INSTALLED PER SECTION R802.10 IN THE 2018 NCRC ROOF TRUSSES SHALL BE BRACED PER THE MANUFACTURER'S INSTRUCTIONS AND PER THE SBCA BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE TO GOOD PRACTICE FOR HANDING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES. DO NOT CUT OR ALTER ROOF TRUSSES

ROOF TRUSS MANUFACTURER SHALL VERIFY AND DESIGN FOR POSITION OF PULL DOWN STAIRS AND

WHERE TRUSS HEELS EXCEED 9-1/4" AND ARE LOCATED OVER BRACED WALL PANELS AS SHOWN ON THE PLANS, BLOCKING SHALL BE INSTALLED PER SECTION R602.10.5 OF THE 2018 NCRC.

SLEEN CTV CARAD CONSULTING AND DEMON FLLC OF ALL CONSULTING No. PSUSS
SEAL OS2215 29/14/24
CLIENT: LGI Homes
SHEET NAME: SECOND FLOOR FRAMING PLAN
CLIENT: LGI Homes
PLAN NAME: BIRCH - RH VERSION
NEIGHBORHOOD: TBD LOT AND ADDRESS: LOT # TBD
PROJECT NUMBER: LGI240014
DRAWN BY: CTB
DATE: 2/14/2024 SCALE: 1/4"=1'-0" ON 22"x34" 1/8"=1'-0" ON 11"x17"
PAGE: S-2.1

#### GENERAL STRUCTURAL NOTES:

- These drawings and its contents are the property of Queen City Consulting and Design, PLLC, (QC) and the client as noted on this page. Distribution to any other parties for purposes other than those directly concerned with the titled project without prior written consent from QC is strictly prohibited.
- The engineer's name present on the seal of these drawings is the engineer of record (EOR).
- Details noted as "Typical" shall be used whenever applicable. Refer to specifications for information not covered by these notes or drawings.
- 4. It is the responsibility of the contractor to verify all dimensions prior to construction. Furthermore, QC will not be held responsible for the contractor's failure to conform to the construction documents, including this structural set, should any non-conformities occur.
- 5. The contractor shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property.
- 6. Any omissions and conflicts between the various elements of the structural drawings and/or specifications shall be brought to the attention of, and resolved with, the engineer before proceeding with any work so involved.
- All construction shall conform to the latest requirements of the North Carolina Residential Code (NCRC), 2018 Edition, plus all local codes and regulations. 8. Seismic design shall be per section R301.2.2 of the 2018 NCRC and is based off of local seismic design categories.

#### FOOTING AND FOUNDATION NOTES:

- Foundation Design is based on a minimum allowing bearing capacity of 2,000 PSF. Contact the EOR if bearing capacity is not achieved.
- No excavation shall occur within a 45 degree line projected from the bottom of the building foundation is permitted, unless it is specifically approved by the EOR. The bottom of all footings shall extend below the frost line for the region, as specified by the local municipality. However, the bottom of all footings shall be a minimum
- 12" below grade.
- 4. Contractor to ensure that all drainage is directed away from the exterior footings (Min. 2% slope).
- 5. Excavations of footings shall be temporarily protected with a 10 mil polyethylene membrane if concrete is not placed within 24 hours of excavation. 6. Do not place concrete or other cementitious materials against subgrade with any deleterious materials present, including but not limited to: water, ice, frost, or loose material.
- 7. All footings are to have minimum 2" projection on each side of foundation walls (except for monolithic slab foundations).

#### CONCRETE:

- 1. Poured concrete is to have a minimum compressive strength of 3000 psi at 28 days.
- Aggregates for normal weight concrete shall conform to ASTM C33.
- All materials used for concrete shall conform to ACI 318, ACI 301, or ASTM C1157.
- The placing of all concrete shall be in accordance with ACI 318 and ASTM C94 requirements
- Admixtures may be used with prior approval of the EOR. Admixtures shall comply with ASTM C494 and C1017.
- Concrete slabs-on-grade shall be constructed in a manner that complies with ACI 302.1R-96.
- Control or saw cut joints shall be cut to a minimum of 1/4 of the thickness of the respective concrete element. Control joints located within interior and exterior slabs-on-grade shall be spaced at a maximum of 12' O.C. Control joints shall comply with ACI 301.

#### CONCRETE REINFORCEMENT:

- Bar reinforcement shall be conform to ASTM A615, grade 60 steel.
- The following minimum clear cover shall be provided over reinforcing bars:
  - 2.1. Concrete exposed to earth = 3"
  - 2.2. Concrete exposed to weather = 1-1/2"
  - 2.3. Slabs not exposed to weather = 3/4"
  - 2.4. Concrete Beams & Columns = 1-1/2"
- 3. Brick and/or porous material shall not be used to support footing steel off the ground. Plastic rebar chairs or precast concrete dobies may be used.
- 4. Splices in reinforcing steel shall be a minimum of 45x the diameter, up to a #6 rebar. Rebar larger than #6 requires a minimum lap splice of 56x the diameter.
- 5. All concrete walls shall be doweled to their supporting footings, beams, pads, etc. with bars of the same size and spacing as the vertical bars located within the wall, unless otherwise noted. Anchorage of dowels shall be the equivalent of a bar splice.

#### GENERAL WOOD FRAMING:

- All wood framing members are designed to be Spruce-Pine-Fir (SPF) #2, unless otherwise noted on the plan. Grade marks shall be made by a recognized grading agency.
- 2. Framing members exposed to weather or in direct contact with soil, concrete, or masonry shall be pressure treated Spruce-Pine-Fir #2 and shall comply with the AWPA standard C-15.
- 3. All fasteners such as nails, bolts, screws, anchor bolts, etc. attaching pressure treated or fire-retardant treated wood shall be hot-dipped zinc coated galvanized or stainless steel (ASTM A153)
- 4. LVL engineered wood shall have the following minimum design values:
  - 4.1.E = 1,900,000 psi
    - 4.2.Fb = 2600 psi
    - 4.3. Fv = 285 psi
    - 4.4. Ft = 1555 psi
- 5. PSL engineered wood shall have the following minimum design values:
  - 5.1.E = 2.000.000 psi
  - 5.2. Fb = 2900 psi
  - 5.3. Fv = 290 psi 5.4. Ft
- = 1755 psi 6. LSL engineered wood shall have the following minimum design values:
- 6.1.E = 1.550.000 psi
  - 6.2. Fb = 2250 psi
  - = 400 psi
  - 6.3. Fv 6.4. Ft
- = 1075 psi
- 7. All bearing headers to be 2-2x6 supported with minimum (1) 2x4 jack stud and (1) 2x4 king stud at each end, unless noted otherwise on the plans. Non-load bearing headers shall be minimum 2-2x4.
- 8. Solid blocking is to be installed at all point load through floor levels to the foundation or to the nearest structural element.
- All wood structural members that are specified are minimum sizes. Contractor may install larger sizes for ease of construction, if desired.
- All nails shall be common nails, unless noted otherwise on plans and details.
- 11. All lag screws are to be predrilled. Drill diameter is to be 60 percent of the shank diameter. In addition, lag screws shall comply with ANSI/ASME standard B18.2.1-1981.
- 12. All bolt heads and nuts bearing on wood shall have standard cut washers. Holes for bolts shall be bored 1/16" larger than the nominal bolt diameter.
- 13. Provide full bearing where all beams meet supporting framing members.
- 14. Unless otherwise noted on plans, size, height, and spacing of wood studs shall be in accordance with section R602.3.1 of the 2018 North Carolina Residential Code. Wood framed walls shall consist of Spruce-Pine-Fir No.2 graded material.
- 15. Unless otherwise noted, four-ply LVL beams shall have plies fastened together with two rows of 1/2" diameter bolts spaced at 16" o.c. The bolts shall be located a minimum of 2-1/2" and a maximum of 3-1/2" from the top of bottom of the beam.

#### ROOF FRAMING NOTES:

Truss Built Roofs

- 1.1. All roof trusses must be built in accordance with the truss manufacturer's requirements. Tie-down connections to resist uplift shall be installed where required When roof truss manufacturers do not provide the required connectors, it is the responsibility of the contractor to notify the roof truss engineer or the EOR to provide an adequate connection
- 1.2. Roof truss layouts are to be in compliance with the overall design specified on the plans. All deviations are to be brought to the attention of the EOR prior to installation.
- 1.3. Roof trusses shall be braced per the manufacturer's instructions and per the SBCA Building Component Safety Information (BCSI) Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Roof Trusses.
- 1.4. Provide 2x4 ladder framing spaced at 24" o.c. between adjacent roof trusses where false dormers are located.
- 1.5. Install minimum 7/16" OSB roof sheathing.
- 1.6. Install roof trusses per section R802.10 in the 2018 NCRC. Where truss heels exceed 9-1/4" and are located over braced wall panels, blocking is to be installed per section R602.10.5 of the 2018 NCRC.
- 2. Stick Framed Roofs
  - 2.1. Collar ties shall be 2x6 spaced at 48" o.c. at all ridges unless noted otherwise and connected in the upper third of the attic space using (3) 10d common nails. 2.2. Fur down all ridges as needed so that rafters have full contact.

2.3. Ceiling joists when erected parallel to rafters must be sistered to rafters and secured as per table R802.5.1(a) of the 2018 North Carolina Residential Code. 2.4. In addition to the NCRC fastener schedule, unless noted otherwise on the plan, roof members shall be tied down with additional metal connectors. Install a Simpson H2.5A connector at every rafter to fasten the lower end of the rafter to the top plate or beam below.

2.5. Install minimum 7/16" OSB roof sheathing.





STRUCTURAL PLANS PREPARED FOR:

STANDARD DETAILS

OWNER:

PROJECT ADDRESS:

DESIGNER QUEEN CITY CONSULTING AND DESIGN, PLLC. 2459 WILKINSON BLVD SUITE 300 CHARLOTTE, NC 28208

#### DESIGN SPECIFICATIONS:

#### Construction Type: Residential

Applicable Building Codes: 2018 North Carolina Residential Building Code with All Local Amendments ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

Ultimate Design Wind Speed: 130MPH, EXPOSURE B

Assumed Soil Bearing Capacity: 2000psf

Component and Cladding loads shall be derived per Tables R301.2(2) and R301.2(3)

#### SEAL APPLIES TO STRUCTURAL ONLY

ENGINEERING SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. QC ASSUMES NO LIABILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, SAFETY PRECAUTIONS, OR DEVIATIONS/DISCREPANCIES THAT MAY OCCUR IN THE PLAN. ANY DEVIATIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF QUEEN CITY CONSULTING AND DESIGN, PLLC.

	LIVE LOADS
Roof 2x Conventional	20 PSF
Roof Truss	20 PSF
Attic Roof Truss	60 PSF
Floor Live Typ. Dwelling	40 PSF
Sleeping Areas	30 PSF
Decks	40 PSF
Passenger Vehicle Garage	50 PSF
Balconies	40 PSF
Attics with Storage	20 PSF
Attics without Storage	10 PSF
Ground Snow Load	15 PSF

	DEAD LOADS
Roof 2x Conventional	15 PSF
Roof Truss	20 PSF
Conventional 2x Floor	10 PSF
I-Joist	15 PSF
Floor Truss	15 PSF



PAGE LIST:		
Page Symbol	Description	
CS	Cover Sheet, Specifications, Revisions	
D-1m	Monolithic Slab Details	
D-1s	Stem Wall Details	
D-1c	Crawlspace Details	
D-1f	Framing Details	

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CLIENT:
LGI HOMES DRAWN BY: CTB

Description Revision No Date 12.26.23 ORIGINAL ENGINEERING 05 05 24 Added Stem Wall Details ADDED BRICK CRAWL SPACE DETAILS 2 05.16.24 ADDED STAIR DETAIL AND TURNDOWN DETAIL 08.30.24 3

> DATE 05/16/2024

SCALE: DETAILS ARE N.T.S.

CS







Q-2m/N.T.S.



METHOD PF: PORTAL FRAME DETAIL

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SUBJICTIV SUBJICTIV DEBEN RLD Re RSB
SEAL USE B 08:30.24
AILS
RD DET/
STANDA
CLIENT: LGI HOMES DRAWN BY:
CTB DATE: 05/16/2024 SCALE: DETAILS ARE N.T.S.
D-1f



 $\sqrt{2}-2f$  see notes on plan for more info

