

# THE MADISON AT ATHERSTONE COMMUNITY

# SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1205 sf
SECOND FLOOR (HTD.) = 1600 sf
2805 sf

GARAGE = 395 sf
FRONT PORCH = 80 sf

TOTAL = 3280 sf

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A2.1 SECOND FLOOR PLAN
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A3.1 EXTERIOR ELEVATIONS
E1.0 FIRST FLOOR ELECTRICAL PLAN
E1.1 SECOND FLOOR ELECTRICAL PLAN

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S3.1 ROOF FRAMING PLAN
S7.0 FIRST FLOOR BRACING PLAN
S7.1 SECOND FLOOR BRACING PLAN

D1-D7 STANDARD DETAILS

# ENGINEER

# SUMMIT ENGINEERING

2520 WHITEHALL PARK DRIVE - SUITE 250 CHARLOTTE, NC 28273 704-504-1717

# ARCHITECT

# COX ARCHITECTURE & DESIGN, PLLC

R. CRAIG COX 1310 SOUTH TRYON STREET SUITE 111 CHARLOTTE, NC 28203 980-237-3827

WWW.COXARCHITECTURE.COM CRAIG@COXARCHITECTURE.COM

# GENERAL CONTRACTOR

# LGI HOMES

SCOTT STERLING
V.P. OF CONSTRUCTION FOR MID-ATLANTIC
704-953-3824

HOMES

THE MADISON

COMMUNITY CAROLINA

AT ATHERSTONE ANGIER, NORTH

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COVER SHEET

A1.0



# **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: (IBC 310)

"R-3" ONE & TWO FAMILY DWELLING

CONSTRUCTION CLASS: (IBC 601)

"TYPE V-B" UNPROTECTED

HEIGHT & AREA LIMIT: (LOCAL ZONING)

35' MAXIMUM 2 STORY HEIGHT

EMERGENCY ESCAPE: (IRC 310-311)

EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS

SHALL HAVE MINIMUM OF 4.0 SQ. FT. NET CLEAR OPENING.

MINIMUM 20" WIDTH.

MINIMUM 22" HEIGHT.

MAXIMUM 44" SILL HEIGHT

GARAGE / HOUSE CEILING / ASSEMBLY: (IRC 702)

½" GYPSUM WALL BOARD

 $\frac{1}{8}$ " TYPE "X" GYPSUM BOARD CEILING WHERE LIVING IS ABOVE

20 MINUTE RATED GARAGE / HOUSE DOOR

ATTIC VENTILATION: (IRC 806)

[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: (IRC 408)

[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

THESE DOCUMENTS ARE PROPERTY OF COX ARCHITECTURE AND DESIGN AND SHALL NOT SE USED OR REPRODUCED WITHOUT WRITTEN CONSENT BY GOX ARCHITECTURE AND DESIGN. COX ARCHITECTURE AND DESIGN SHALL NOT BE LIABLE FOR ANY UNAUTHORIZED USE OF THESE DOCUMENTS.

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GENERAL NOTES

A1.1

### 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.

-HOSE BIBB(S) TO BE LOCATED 24" ABOVE FIRST FLOOR FINISHED FLOOR

### 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 LOCAL AUTHORITIES OF INTERNATIONAL RESIDENTIAL CODE, 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



DOORS: P = POCKET

WINDOWS: SH = SINGLE HUNG

F = FIXED

## **INSULATION NOTES**

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

ANGIFR NC HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL R-15

R-10, 2FT

SLAB:

SQUARE FOOTAGES

= 1205 sf

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.) = 1600 sf

GARAGE = 395 sf FRONT PORCH = 80 sf

TOTAL = 3280 sf

## FLOOR PLAN LEGEND

5 SHELVES 1R 2S 1 ROD, 2 SHELVES 2 ROD, 2 SHELVES 2R 2S HANGING ROD CASED OPENING CO W D WASHER, DRYER D/W DISH WASHER FRIG REFRIGERATOR LS LAZY SUSAN MIRROR M SHOWER HEAD (RH) RAIN HEAD TEMPERED GLASS

## WALL SCHEDULE

FRAMED WALLS

OVERHEAD/BELOW

ALL WALLS ARE 2x4 WOOD STUD WALLS, UNO 5 1/2" DIMENSION INDICATES 2x6 WOOD STUD WALL

### STAIR NOTES

-STAIR FABRICATOR / INSTALLER TO VERIFY THAT STAIRS MEET ALL REQ'D CODES

-ADJUSTMENTS TO STAIR TO BE CONFIRMED W/ ARCHITECT & CONTRACTOR PRIOR TO

# CEILING HEIGHT NOTES

8' - 1 1/6" CEILING HEIGHTS ON FIRST FLOOR 8' - 1  $\frac{1}{2}$ " CEILING HEIGHTS ON SECOND FLOOR

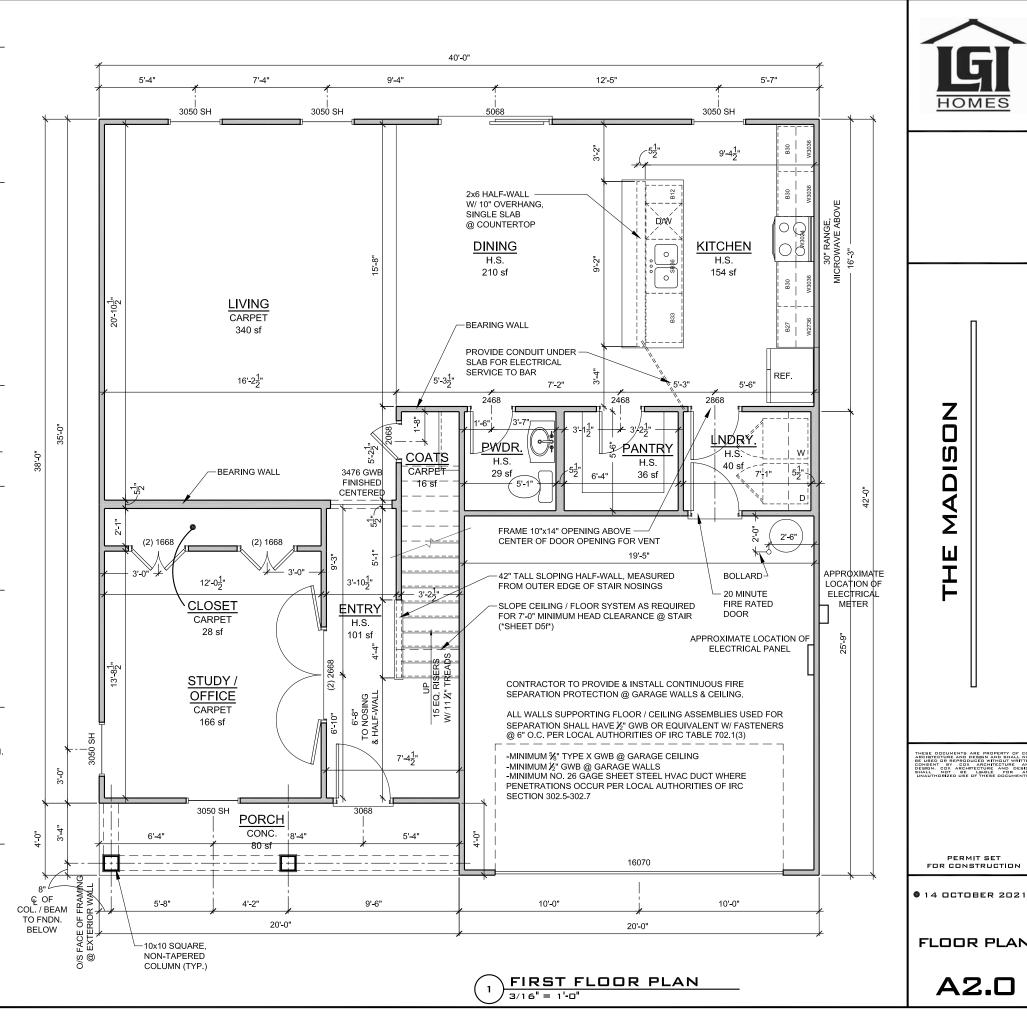
> MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

# **COLUMN NOTES**

COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM) TOP CONNECTION: (2) #8 - 1/4" x 3" STAINLESS 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) 1/4" x 3 3/4" 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.



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PERMIT SET

FOR CONSTRUCTION

FLOOR PLAN

A2.0

# SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1205 sf SECOND FLOOR (HTD.) = 1600 sf 2805 sf

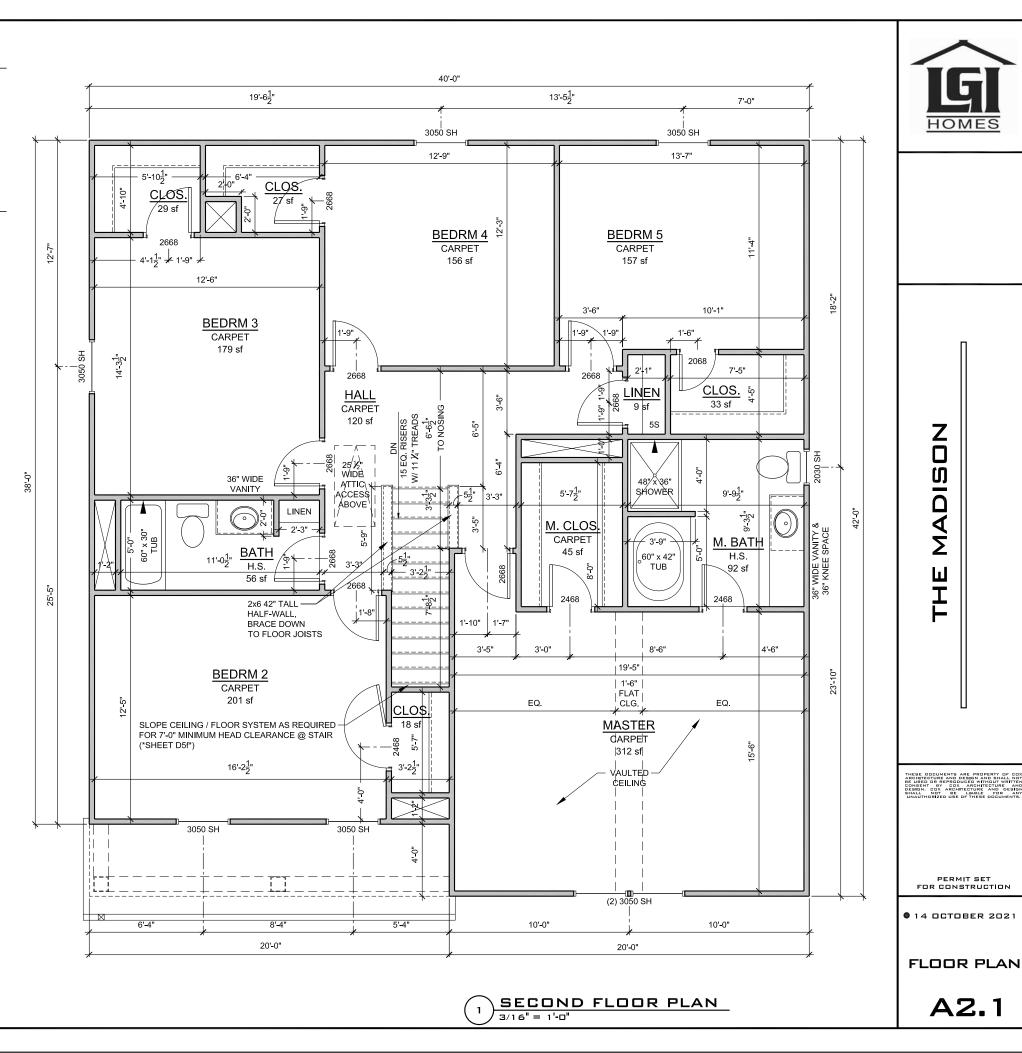
GARAGE = 395 sf FRONT PORCH = 80 sf

TOTAL = 3280 sf

# CEILING HEIGHT NOTES

8' - 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 ½" 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 LOCAL AUTHORITIES OF IRC

# INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

ANGIER, NC HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL: R-15 SLAB: R-10, 2FT

### **ELEVATION NOTES**

-ALL REPRESENTATIONS OF GRADE LEVELS ARE FOR DRAWING PURPOSES ONLY, AND TO BE VERIFIED IN FIELD.

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

-ALL TRUSS PROFILE DIMENSIONS TO BE VERIFIED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER TO NOTIFY ARCHITECT IF TRUSS PROFILES / DIMENSIONS CHANGE.

-ALL BUILDINGS CONSTRUCTED WITH LESS THAN A 10' FIRE 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

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.

# CEILING HEIGHT NOTES

 $8^{\prime}$  - 1 ½" CEILING HEIGHTS ON FIRST FLOOR  $8^{\prime}$  - 1 ½" CEILING HEIGHTS ON SECOND FLOOR

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

# COLUMN NOTES

COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM) TOP CONNECTION: (2) #8 -  $\frac{1}{4}$ " x 3" STAINLESS STEEL SCREWS PER SIDE INSERTED INTO BEAM. BOTTOM CONNECTION: (3) UBS - #18043 BRACKETS FASTENED WITH (2)  $\frac{1}{4}$ " x 1  $\frac{1}{4}$ " SCREWS INTO COLUMN & (2)  $\frac{1}{4}$ " x 3  $\frac{3}{4}$ " CONCRETE SCREWS THROUGH FASTENER INTO CONCRETE

RIDGE VENTING ALL RIDGES (TYP.) COMPOSITION SHINGLES RECTANGULAR VENT CENTERED UNDER RIDGE VAULTED CEILING IN MASTER HORIZONTAL VINYL SIDING (TYP.) 6" TRIM (TYP.) T.O. TOP PLATE WDW RO THDR HGHT CONTINUOUS VENTED SOFFIT W/ NON-COMBUSTIBLE MATERIALS NO ALUMINUM (WHERE METAL FLASHING (TYP.) REQUIRED BY CODE) T.O. SECOND FLOOR 14" VINYL RAISED PANEL SUBFLOOR SHUTTERS (TYP.) TWDW R.O. SIDING (TYP.) HDR. HGHT. 6" TRIM (TYP.) 10" SQUARE, NON-TAPERED COLUMN O CONCRETE @ FIRST FLOOR

FRONT ELEVATION

1/8" = 1'-0"

HOMES

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ELEVATIONS

A3.0





G.F.I. 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS

₩EATHER PROOF GFI 120 OUTLET 240 OUTLET. COORDINATE EXACT LOCATION WITH EQUIPMENT SPECIFICATIONS

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 OF THE ACCURATE 120 QUADRAPLEX OUTLET, 18" A.F.F. TO CENTER

USB OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS

FLOOR 120 OUTLET (FLUSH)
(TBD IN FIELD W/ OWNER) JUNCTION BOX

CEILING LIGHT FIXTURE (LED) WALL LIGHT FIXTURE

4" RECESSED LIGHT FIXTURE

4" RECESSED DAMP LOCATION LIGHT FIXTURE

4" RECESSED EYEBALL FIXTURE FAN/LIGHT RECESSED FIXTURE

FAN/LIGHT RECESSED DAMP LOCATION FIXTURE

CEILING FAN (\*PROVIDE BLOCKING) FLOOD LIGHT

THERMOSTAT

EXHAUST FAN

# ■ SMOKE/CARBON MONOXIDE DETECTOR

DOOR BELL CHIME

DOOR BELL TRANSFORMER \$ WALL SWITCH, 48" A.F.F. TO CENTER

\$D DIMMER SWITCH, 48" A.F.F. TO CENTER

\$4 4 WAY SWITCH, 48" A.F.F. TO CENTER

3 WAY STACKED SWITCH

PHONE, 18" A.F.F. TO CENTER, "W" INDICATES WALL MOUNTED @ 48" A.F.F. DATA, 18" A.F.F. TO CENTER, W'
INDICATES WALL MOUNTED @ 48" A.F.F.

FLUORESCENT LIGHT FIXTURE ZENON UNDER CABINET LIGHT TO BE MTD. TO BOTTOM OF WALL CAB. NEAR FRONT EDGE

PLUG MOLD TO BE MTD. TO BOTTOM OF WALL CAB. NEAR WALL

■ LED TAPE LIGHT DO DOOR OPENER

EP ELECTRICAL PANEL EM ELECTRICAL METER

TWH TANKLESS WATER HEATER +HB HOSE BIBB

+G GAS CONNECTION +GSO GAS SHUT-OFF

# **ELECTRICAL NOTES**

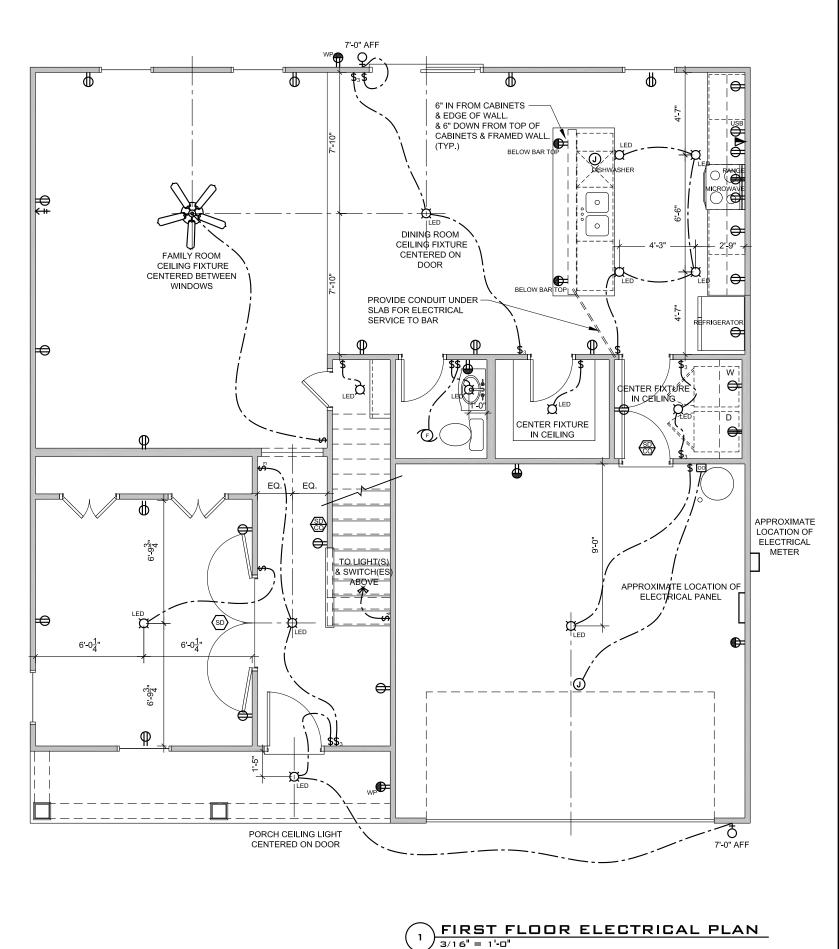
-LIGHT FIXTURES IN CLOSETS TO COMPLY WITH SECTION 410.8 OF THE LATEST VERSION OF THE NEC HANDBOOK -SMOKE/CARBON MONOXIDE DETECTORS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

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.



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ELECTRICAL **PLAN** 

E1.0



G.F.I. 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS

WEATHER PROOF GFI 120 OUTLET 240 OUTLET, COORDINATE EXACT LOCATION WITH EQUIPMENT SPECIFICATIONS

1/2 SWITCHED 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS

120 QUADRAPLEX OUTLET, 18" A.F.F. TO CENTER

USB OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS FLOOR 120 OUTLET (FLUSH)
(TBD IN FIELD W/ OWNER)

JUNCTION BOX

CEILING LIGHT FIXTURE (LED) WALL LIGHT FIXTURE

4" RECESSED LIGHT FIXTURE 4" RECESSED DAMP LOCATION LIGHT FIXTURE

4" RECESSED EYEBALL FIXTURE

FAN/LIGHT RECESSED FIXTURE

FAN/LIGHT RECESSED DAMP LOCATION FIXTURE CEILING FAN (\*PROVIDE BLOCKING)

FLOOD LIGHT

THERMOSTAT

EXHAUST FAN

# SMOKE/CARBON MONOXIDE DETECTOR

DOOR BELL CHIME

DOOR BELL TRANSFORMER \$ WALL SWITCH, 48" A.F.F. TO CENTER

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\$4 4 WAY SWITCH, 48" A.F.F. TO CENTER

3 WAY STACKED SWITCH

■ PHONE, 18" A.F.F. TO CENTER, "W" INDICATES WALL MOUNTED @ 48" A.F.F.

DATA, 18" A.F.F. TO CENTER, W'
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FLUORESCENT LIGHT FIXTURE ZENON UNDER CABINET LIGHT TO BE MTD. TO BOTTOM OF WALL CAB. NEAR FRONT EDGE

PLUG MOLD TO BE MTD. TO BOTTOM OF WALL CAB. NEAR WALL

● LED TAPE LIGHT DO DOOR OPENER

EP ELECTRICAL PANEL EM ELECTRICAL METER

TWH TANKLESS WATER HEATER +HB HOSE BIBB

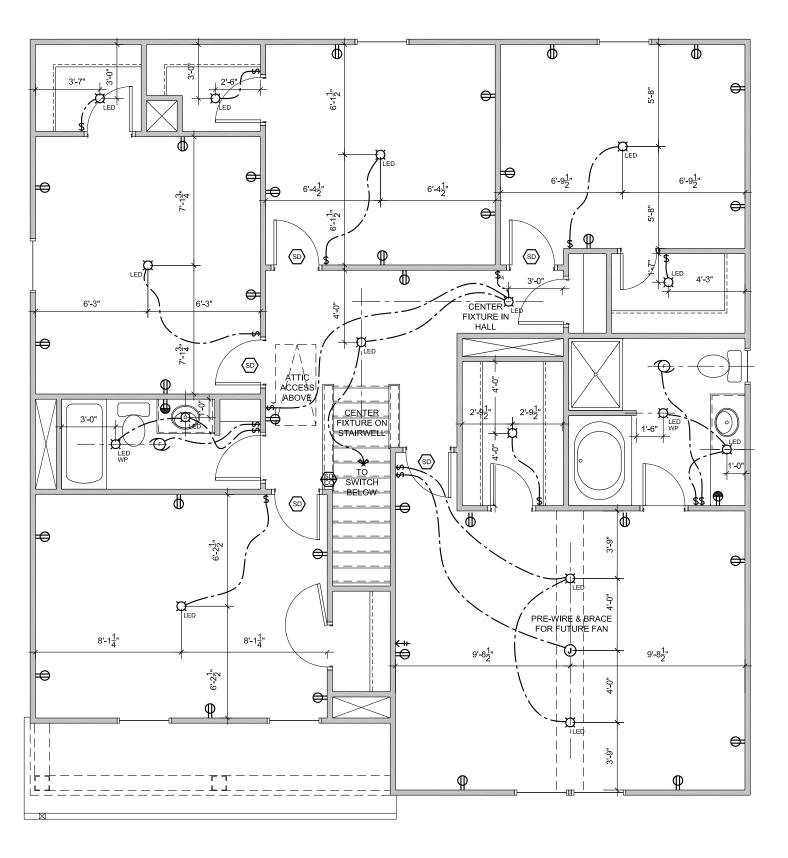
+G GAS CONNECTION +GSO GAS SHUT-OFF

# **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.



SECOND FLOOR ELECTRICAL PLAN 2 3/16" = 1'-0"

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● 14 OCTOBER 2021

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ELECTRICAL **PLAN** 

E1.1

# DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ 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

# Design Loads:

ign L	oaas:		
~ l.	Roof	Live Loads	
	1.1.	Conventional 2x	20 PSF
	1.2.	Truss	20 PSF
		12.1. Attic Truss	60 PSF
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truss	20 PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	1.0
4.		Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
	4.3.	Decks	40 PSF
	4.4.	Passenger Garage	50 PSF
5.		Dead Loads	
	5.l.	Conventional 2x	10 PSF
	5.2.	I-Joist	15 PSF
		Floor Truss	
6.	Ultima	te Design Wind Speed (3 sec. gust)	130 MPH
	6.1.	Exposure	В
	6.2.	Importance Factor	1.0
		Wind Base Shear	
		6.3.l. Vx =	

MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2
ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-20.7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

6.3.2.Vy = 1. Component and Cladding (in PSF)

8	Seismi	ic.
٠.	8.1.	Site ClassD
	82.	Design Category
	8.3.	Importance Factor10
		Seismic Use Group
		Spectral Response Acceleration
		8.5.1. Sms = %q
		$8.5.2.\mathrm{Sml} = \%q$
	8.6.	Seismic Base Shear
		8.6.l. Vx =
		8.6.2.Vy =
	8.T.	Basic Structural System (check one)
		Bearing Wall
		☐ Building Frame
		☐ Moment Frame
		□ Dual w/ Special Moment Frame
		□ Dual w/ Intermediate R/C or Special Steel
		□ Inverted Pendulum

Wind  $\boxtimes$ 

. 2000bsf

88. Arch/Mech Components Anchored .....

8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity ......



STRUCTURAL PLANS PREPARED FOR:

# MADISON STUDY HOME OFFICE

PROJECT ADDRESS: TBD

OWNER:
LGI Homes

7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

ARCHITECT/DESIGNER:

COX Architecture & Design, PLLC 1310 South Tryon Street, Suite 111 Charlotte. NC 28203

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory & Testing, INC. before construction begins.

# PLAN ABBREVIATIONS:

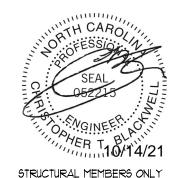
AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	ŤJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
OC	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory 4 Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by LGI HOMES. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

# SHEET LIST:

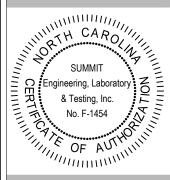
Sheet No.	Description
CSI	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
S1.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
S1.0c	Crawl Space Foundation
S1.Ø.4b	4-Sides Brick Crawl Space Foundation
S1.0b	Basement Foundation
S2.Ø	Basement Framing Plan
S3.Ø	First Floor Framing Plan
S4.Ø	Second Floor Framing Plan
S5.Ø	Roof Framing Plan
S6.Ø	Basement Bracing Plan
S7.Ø	First Floor Bracing Plan
58.0	Second Floor Bracing Plan

Revision No.	Date	Project No.	Description
1	2/22/19	21194	Updated plan per 2018 NCRC & moved engineering to SUMMIT template
2	3/12/19	21194R	Revised per new architecturals
3	6/5/19	21194R 2	Added crawl space foundation
4	10/9/19	21194R3	Revised per new architectural files
5	2/4/21		Revised to add Thermo Ply Bracing
6	7/21/21		Revised Garage Door Openings
7	10/12/21		Revised to create study/home office version of plans





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MADISON STUDY HOME OFFICE Coversheet LGI Homes 7201 Creedmoor Road, Suite 14 Raleigh, NC 27613

CURRENT DRAWING

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/16/17 PROJECT # 11290

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEE

CS1

### GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory \$ Testing, INC. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction beains.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of local building codes.
- 9. All structural assemblies are to meet or exceed to requirements of the current local building code.

- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
- 2. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- 3. Any fill shall be placed under the direction or recommendation of a licensed professional engineer.
- The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- 5. Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- 6. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- 2. Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- All steel shall have a minimum yield stress (F,,) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS Dl.I. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards.

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- 3. Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
  - 3.1. Footings: 5%
  - 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER.
- 5. Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
- 7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour.

### CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance and residual strength
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry standard.
- 5. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, arade 60.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- 1. Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) #2.
- LVL or PSL engineered wood shall have the following minimum design values:
  - 2.1. E = 1,900,000 bsi
  - 2.2. Fb = 2600 psi
  - 2.3.Fv = 285 bsi
  - 24 Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B18.2.1-19.81. Lead holes for lag screws shall be in accordance with NDS specifications
- All beams shall have full bearing on supporting framing members unless otherwise noted.
- Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King stude shall be continuous
- Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 10d nails a 24" OC
- 10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 16" O.C. unless noted otherwise

### WOOD TRUSSES:

- The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum" Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment piping, and architectural fixtures attached to the trusses.
- The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design" Specification for Metal Plate Connected Wood Trusses.
- The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- Anu chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

# EXTERIOR WOOD FRAMED DECKS:

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

### WOOD STRUCTURAL PANELS:

- Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential" and Commercial," and all other applicable APA standards.
- All structurally required wood sheathing shall bear the mark of the
- Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Wood floor sheathing shall be APA rated sheathing exposure I or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

# STRUCTURAL FIBERBOARD PANELS:

- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- All structurally required fiberboard sheathing shall bear the mark of the AFA.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more

William Control

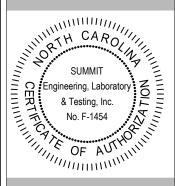
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Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.



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14 Suite Road, 3 Creedmoor F gh, NC 27613 Coversheet I Homes 01 Creed leigh, NC LGI 720: Rale

CURRENT DRAWING

OFFICE

HOME

STUDY I

MADISON

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/16/17 PROJECT # 11290

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

CS2

### FOUNDATION NOTES

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE W CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE W ALL LOCAL AMENDMENTS. STRUCTURAL CONCRETE TO BE F. 3000 PGI, PREPARED AND PLACED IN ACCORDANCE WITH ACL STANDARD 318.

  ACCORDANCE WITH ACL STANDARD 318.
  BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BUILDING DIRECTED BY THE CODE
- BELOW ADJACENT FINISHED GRADE, OR AS O'THENDINE DIRECTED IN THE WOOLE BRONCEPTH O'TEICLAL FOOTING STZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY O'T 2000 PSC. CONTRACTOR 19 SOLELY RESPONSIBLE FOR VERETHING THE SUITABILITY OF THE STIE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FOOTINGS AND PIERS SHALL BE CENTIFEED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" HINIMUM FOOTING PROJECTION FROM THE FACE OF MASONITY. MAXIMUM DEPTH OF WINDLAND FILL AGAINST MASONITY MALLS TO BE AS SPECIFIED IN SECTION ROAD IT. AS SPECIFIED IN SECTION ROAD IT. SINCE NO SECTION RO

- 9FECFIED N SECTION RAPAL OF THE 20th NORTH CAROLINA RESIDENTIAL BUILDING CODE.

  1. PILASTERS TO BE BONDED TO PERFIRETER ROUNDATION WALL.

  3. PROVIDE ROUNDATION WISHERPROCHING, AND DRAIN WITH POSITIVE SLOPE TO CUTLET AS REQUIRED BY SITE CONDITIONS.

  5. PROVIDED PERFIRETER NEWLATION FOR ALL FOUNDATIONS PER 20th NORTH CAROLINA RESIDENTIAL BUILDING CODE.

  CORREL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.

  CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.

  FOUNDATION ANCIONACIES WALL BE CONSTRUCTED FER THE 20th NORTH CAROLINA RESIDENTIAL CODE SECTION RAPASIA: HINMAM 1/2\* DIA BOLTS

  PACED AT A 20th ON CHEMICAL WITH AT "THIMM IT SHEED THEN TIND MASQNET OR CONCRETE HINMAM 1/2\* ANGIOR BOLTS FER PLATE SECTION AND 1/1 LOCATED NOT MORE THAN 12" FROM THE CONCRET ANGION SOLTS SHALL BE LOCATED IN THE CONTRET HIRDO OF THE PLATE.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE
- SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER
- OC = ON CENTER PL = POINT LOAD
- ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY
- THE REST TO BE IN THE THEORY AND ALL TILLISTERS TO BE 3 NO THEORY TYPICAL, (MISO)

  UNLL POOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN A POUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS QUILL PIED REPRESENTATIVE. SOLATED AREAS OF THEILDING MATERIALS, SMOOTO POOTENTIALT EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF SOLIS ARE EDGENCED IN THE FOUND EXCAVATION AT THE TIME CONSTRUCTION, SUPHIT REMOVERING, LABORATOR 1 TESTING, INC. HUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE FACEFRIX.

  ALL FOOTINGS 1 SLASS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FLLL, VERIFIED BY ENGINEER OR CODE OPPICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS, ADDITIONAL INFORMATION PER SECTION R6/02/0/8 AND FIGURE R6/02/0/1 OF THE 2/0/15 IRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND <u>NOT</u> BRICK VENEER, UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN \$LAB IS NISTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSFIED AS GROUP I PER TABLE R405J

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.35 OF THE 2018 NCRC.

ROOF TRUSS AND FLOOR JOIST LAYOUTS. AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PLAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST, INDICATING THE DATE THE LAYOUTS WERE PROVIDED SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY SUMMIT IMMEDIATELY

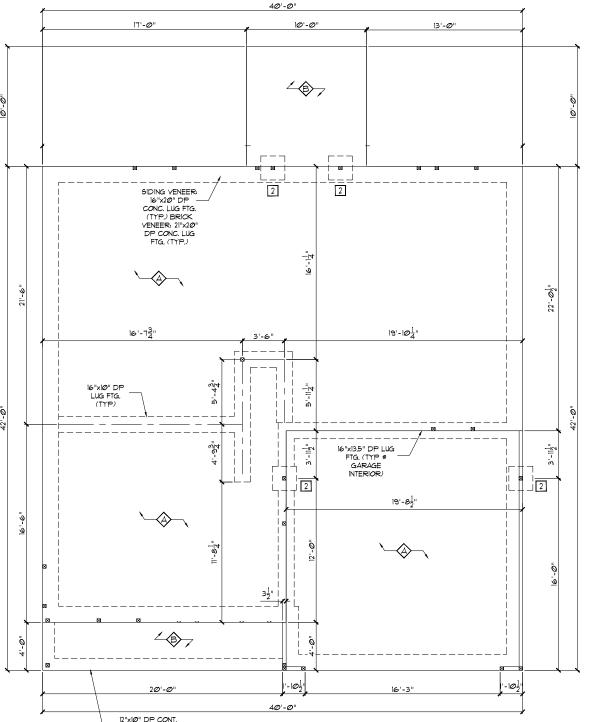
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 10/108/2021, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

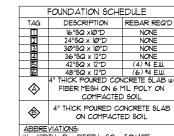
# STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, INC. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION SCALE: 1/8"=1"





ABBREVIATIONS: W = WIDTH, D = DEPTH, SQ = SQUARE, B.D. = BOTH DIRECTIONS, CONT. = CONTINUOUS, MONO = MONOLITHIC SLAB FOOTING



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CURRENT DRAWING

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/16/17 PROJECT # 11290

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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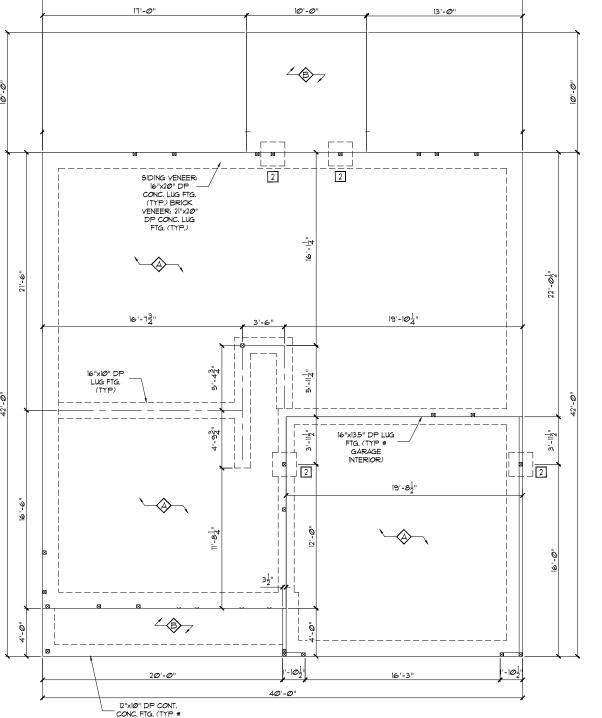
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STRUCTURAL MEMBERS ONLY

NORTH CAROLINA

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### GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 70'B NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMBROMENTS.

  CONTRACTOR SHALL VERIFY ALL DIPENSIONS CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAY.

  CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIDENTIAL TORSPONSIBLE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TETPORARY BRACING REQUIRED TO RESIST ALL PORCES BLOCKDITEED DISRNG ERECTION.
  PROPERTIES USED IN THE DESICAL ARE AS FOLLOUS.
  MICROLLAM (LVL.) Fig. 2 (2600 PS), Fig. 255 PS), Fig. 15 May PS)
  TIMBERSTRAND (LSL.) Fig. 2730 PS), Fig. 15 May PS)
  PARALLAM (PS), Fig. 2730 PS), Fig. 275 PS), Fig. 15 May PS)
  ALL WOOD PROPERS SHALL BE 2°, STY (WA)
  ALL WOOD PROPERS OF HALL BE 2°, STY (WA)
  ALL BEAM'S SHALL BE SUPPORTED WITH A (2) 2x4 2°, STYS FUD COLUMN AT EACH
  END UNLESS NOTED DITHERWISE.
  ALL REPORTIONS STETT SHALL BE 400 PS AREA CONFORMED TO ASTM ASS.

- ALL CEAR OF SHALL BE SUFFICIENT WITH A 177.06 Y 3 PT 5 BIOL COLOR AT EACH POR DILLEGE NOTIFIED OTHERWISE.

  ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTIT A65 AND SHALL HAVE A MINIMUM COVER OF 3'.

  FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RADSILE MINIMUM 12" DIA BOLTO SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. MINIMUM (2) MACHOR BOLTO FER LATE SECTION AND (1) LOCATED NOT MORE THAN 10" FROM THE CORNER ANCHOR BOLTO SHALL BE LOCATED IN THE CENTER THIRD OF THE FLATE.

  CONTRACTOR TO PROVIDED LOCKOUTS WHEN CEILING JOISTS SPAN PERSPENDICIA BY TO RESIDENCE.
- PERPENDICULAR TO RAFTERS. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED
- IDENTICH BEATIN, 4-H-T, TUS AND "ATT. THE CADED UTUS SHALL BE BOTTED TOGETHER WITH 12" DIA THRU BOLTS SPACED AT 74" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS FER DETAIL I/DTI, MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH BOL OF THE BEAM II. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 724 STP 72, PROPPED. FOR NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 724 STP 73, PROPPED, CIVIL EGG NOTED OTHERWISE)

  12. ABBREVIATIONS.

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
GT = GIRDER TRUSS	FT = FLOOR TRUSS
SC = STUD COLUMN	DR = DOUBLE RAF
EE = EACH END	TR = TRIPLE RAFTE
TJ = TRIPLE JOIST	OC = ON CENTER
CL = CENTER LINE	PL = POINT LOAD

WALL STUD SCHEDULE (10 FT HEIGHT)				
STUD SIZE STUD SPACING (O.C.)				
	ROOF ONLY	ROOF # 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2×4	24"	16"	12"	24"
2x6	24"	24"	16"	24"

LINTEL SCHEDULE		
TAG	SIZE	OPENING SIZE
0	L3x3x1/4"	LESS THAN 6'-0"
2	L5x3x1/4"	6'-0" TO 10'-0"
3	L5x3-1/2x5/16"	GREATER THAN 10'-0'
4	L5x3-1/2x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS

NOTES:
L SECURE LINTEL TO HEADER W (2) 1/2" DIAMETER LAG
SCREUS STAGGERED AT 16" O.C. (TYP FOR OPENINGS
GREATER THAN 10"-0".
2. ALL HEADERS WERE BRICK 15 PRESENT, TO BE () (UNO.)

SHADED WALLS INDICATED LOAD BEARING WALLS

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

NOTE:

\_\_\_\_\_\_ DESIGNATES JOIST SUPPORTED LOAD
BEARING WALL ABOVE, PROVIDE BLOCKING UNDER
JOIST SUPPORTED LOAD BEARING WALL.

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY & TESTING, INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PLAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST INDICATING THE DATE THE LAYOUTS WERE PROVIDED. SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY SUMMIT IMMEDIATELY.

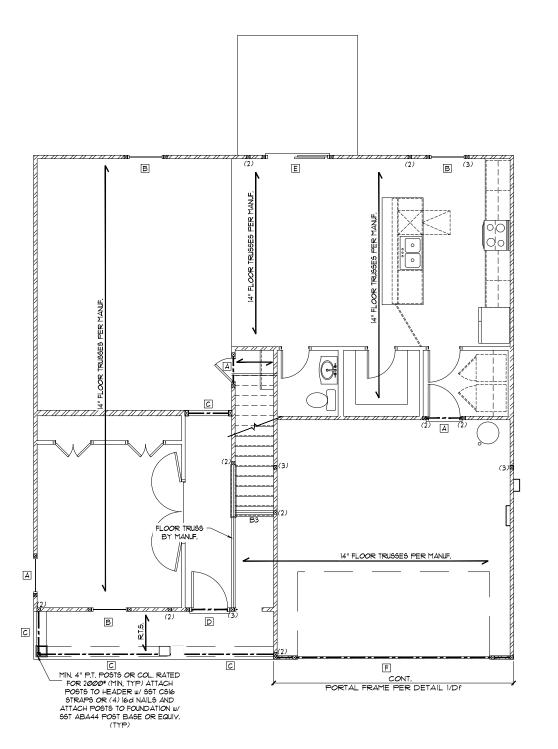
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# STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN SCALE: 1/8"=1"



HEADER SCHEDULE			
TAG	SIZE	JACKS (EACH END)	
Α	(2) 2x6	(1)	
В	(2) 2x8	(2)	
С	(2) 2xlØ	(2)	
D	(2) 2x12	(2)	
E	(2) 9-1/4" LSL/LVL	(3)	
F	(2) 11-7/8" LSL/LVL	(3)	
G	(3) 2x8	(2)	
н	(3) 2xlØ	(2)	
I	(3) 2x12	(2)	

NOTES:

1. HEADER SIZES SHOUN ON PLANS ARE MINIMAS, GREATER
HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPPED (UND.).

3. SHID COLLINS NOTED ON PLAN OVERRIDE STUD COLLING
LISTED ABOVE (UND.).

KING STUD SCHEDULE		
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.	
3'-Ø"	(1)	
4'-0"	(2)	
8'-0"	(3)	
12'-@"	(5)	
16'-0"	(6)	
KING STUD REQUIREMENT LISTED ABOVE DO NOT APPL OPENING WHERE PORTAL FRAME IS SPECIFIED		

BEAM SCHEDULE			
TAG	SIZE		
BI	(1) 11-1/8" FLOOR JOIST OR FLOOR TRUSS		
B2	(2) II-1/8" FLOOR JOIST OR FLOOR TRUSS		
B3	(1) I4" FLOOR JOIST OR FLOOR TRUSS		
B4	(2) 14" FLOOR JOIST OR FLOOR TRUSS		
B5	(1) 9-1/4" L9L/LVL		
B6	(2) 9-1/4" LSL/LVL		
B1	(1) 11-7/8" L9L/LVL		
B8	(2) 11-7/8" L9L/LVL		
B9	(1) 14" LSL/LVL		
BIØ	(2) 14" LSL/LVL		
BII	(2) 2xlØ		
NOTES			

NOTES. 1. BEAM SIZES SHOWN ON PLANS ARE MINIMMS, LARGER BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. BEAMS ARE TO BE SET TOP FLUSH W FLOOR SYSTEM (UNO)

WILL CAD

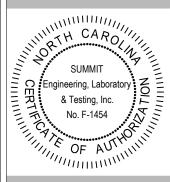
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STRUCTURAL MEMBERS ONLY



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CURRENT DRAWING

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT # 1/16/17 11290

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

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HEADER SCHEDULE					
TAG	SIZE	JACKS (EACH END			
Д	(2) 2x6	(I)			
В	(2) 2x8	(2)			
С	(2) 2xlØ	(2)			
D	(2) 2xl2	(2)			
E	(2) 9-1/4" L5L/LVL	(3)			
F	(2) II-7/8" L5L/LVL	(3)			
G	(3) 2x8	(2)			
H	(3) 2xlØ	(2)			
1	(3) 2x12	(2)			

NOTES.

I. HEADER SIZES SHOUN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPPED (UNO.).

3. STILD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS.

KING STUD SCHEDULE		
MAXIMUM HEADER SPAN	MINIMUM KING STUDS E.E.	
3'-0"	(1)	
4'-0"	(2)	
8'-0"	(3)	
12'-@"	(5)	
16'-0"	(6)	
KING STUD REQUIREMENT LISTED ABOVE DO NOT APPLY TO OPENING WHERE PORTAL FRAME IS SPECIFIED		

WALL STUD SCHEDULE (IØ FT HEIGHT)					
STUD SIZE	TUD SIZE STUD SPACING (O.C.)				
	ROOF ONLY	ROOF 4 I FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING	
2x4	24"	16"	12"	24"	
2x6	24"	24"	16"	24"	

NOTES:
I. BRACED MALLE STUDS SHALL BE A MAX OF 16" O.C.
2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE
SPACED A MAX OF 16" O.C.
3. TUD STORT WALLES SHALL BE FRAMED W: 2x4 STUDS 0 12"
O.C. OR 2x6 STUDS 0 16" O.C. BALLOON FRAMED W!
HORIZONTAL BLOCKING 0 6"-0" O.C. VERTICALLY.

	BEAM SCHEDULE			
TAG	SIZE			
BI	(I) II-1/8" FLOOR JOIST OR FLOOR TRUSS			
B2	(2) II-1/8" FLOOR JOIST OR FLOOR TRUSS			
B3	(1) 14" FLOOR JOIST OR FLOOR TRUSS			
B4	(2) I4" FLOOR JOIST OR FLOOR TRUSS			
B5	(1) 9-1/4" LSL/LVL			
B6	(2) 9-1/4" L6L/LVL			
B1	(1) 11-7/8" LSL/LVL			
B8	(2) 11-7/8" LSL/LVL			
B9	(1) 14" LSL/LVL			
BIØ	(2) 14" L8L/LVL			
BII (2) 2xiØ				

NOTES:

1. BEAM SIZES SHOUN ON PLANS ARE MINIMUMS, LARGER BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION

2. BEAMS ARE TO BE SET TOP FLUSH UF FLOOR SYSTEM (UNO)

SHADED WALLS INDICATED LOAD BEARING WALLS

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

LINTEL SCHEDULE SIZE OPENING SIZE L3x3x1/4" LESS THAN 6'-0" L5x3xI/4" 6'-0" TO 10'-0" L5x3-1/2x5/16" GREATER THAN 10'-0" 4

NOTES: I, SECURE LINTEL TO HEADER W/ (2) I/2" DIAMETER LAG SCREWS STAGGERED AT W" O.C. (TYP FOR OPENINGS GREATER THAN 10'-0". 2. ALL HEADERS WHERE BRICK IS PRESENT, TO BE ( UNO.)

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING. LABORATORY & TESTING, INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PLAN REVISIONS BASED ON ROOF TRUSS AND FLOOR JOIST LAYOUTS SHALL BE NOTED IN THE REVISION LIST, INDICATING THE DATE THE LAYOUTS WERE PROVIDED.

SHOULD ANY DISCREPANCIES BECOME APPARENT. THE CONTRACTOR

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

NOTE: IST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP.

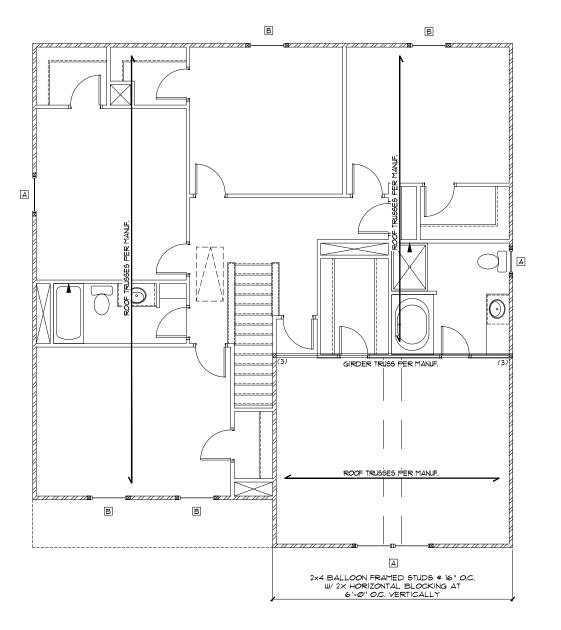
	ROOF TR	RUSS UPLIFT	CONNECTOR	BCHEDULE
	MAX, UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND
_	600 LBS	H2.5A	PER WALL SHEATHIN	G 4 FASTENERS
٦	1200 LBS	(2) H2.5A	CSI6 (END = II")	DTT2Z
	1450 LBS	HT92Ø	C916 (END = 11")	DTT2Z
	2000 LBS	(2) MTS2Ø	(2) CSI6 (END = 11")	DTT2Z
	2900 LBS	(2) HTS2Ø	(2) CSI6 (END = II")	HTT4
	3685 LBS	LGT3-6D62.5	M6TC52	HTT4

- I. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.

  2. UPLIFT VALUES LISTED ARE FOR SYP 9' GRADE MEMBERS.

  3. REFER TO TRUSS LATOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO
- TRUSS CONNECTIONS, CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

  4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED
- THOSE LISTED ABOVE.





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CURRENT DRAWING

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/16/17 PROJECT # 11290

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REQUIRED BRACED WALL PANEL CONNECTIONS				
		MIN.	REQUIRED CONNECTION	
METHOD	MATERIAL	THICKNESS	e PANEL EDGES	INTERMEDIATE     SUPPORTS
C9-W6P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS # 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAIL5** € 1" O.C.
W6P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS # 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.l06.4	PER FIGURE R602.10.6.4
	"OR	QUIVALENT	PER TABLE R10235	

- WALLS SHALL BE DESIGNED IN ACCORDANCE W SECTION R60210 FROM THE 2015 NTERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AMENDMENTS, WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND WLTIMATE DESIGN WIND

- NIEWATIONAL RESIDENTIAL CODE WALL TO ALL MY STATE APPENDENTS.

  WALLS ARE DEGIGED FOR SEISMIC ZORES A-C AND LITHRAT DESIGN WIND 
  SPEEDS UP 10 180 MPH.

  SEPER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES.

  BRACKING MATERIALS, NETHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH 
  TABLE REGOLULAY.

  ALL BRACED WALL PARELS SHALL BE FILL WALL HEIGHT AND SHALL NOT 
  SECRETO IP FEET FOR ISOLATED PANEL METHOD AND IN TEST FOR CONTINUOUS 
  SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  THE INTERIORS SIDE OF EXTERIORS WALLS AND BOTH SIDES OF INTERIOR WALLS 
  SHALL BE SHEATED CONTINUOUSLY WITH MINIMIM 1/2" GYBBUT BOARD (WAS).

  FOR CONTINUOUS SHEATHING METHOD. EXTERIOR WALLS SHALL BE SHEATED CONTINUOUSLY WITH MINIMIM 1/2" GYBBUT BRACED WALL 
  PARELS, ABDOVE AND BELOW WALL OFFENINGS, AND ON GABLE END WALLS. 
  PLOORS SHALL NOT BE CANTILEVERED PLOOR THAN 2"A BEFORD THE FORMOTION 
  OR BEARNS WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS, 
  A BRACED WALL PAREL SHALL BE LOCATED WITHIN 10" RETOR CALCULATIONS. 
  BRACED WALL FAMEL SHALL BE BEACED WALL PARELS SHALL BE SHALL NOT BE CANTILEVERED PLOOR THAN 2"A BEFORD CALCULATIONS. 
  A BRACED WALL PAREL SHALL BE LOCATED WITHIN 10" RETOR CALCULATIONS. 
  BRACED WALL LINE.

- EXCEED 20 FEET.
- IN THE FRACTION STATE DISTANCE DES LIVEN PRICED WILL PARKET SHALL NO
  EXCEPTION PETET.

  2. ACCURATION OF THE PRICED STATES OF TRANSPERS OF BRACING LOADS AND
  EXCEPTION OF SHALL COPPETY WITH IRC SECTION REQUISE.

  3. HAGONEY OR CONCERTE STEM WALLS WITH A LENGTH OF 49" OR LESS
  SUPPORTING A BRACED WALL PAREL SHALL BE DESIGNED IN ACCORDANCE WITH
  FIGURE REQUISED OF THE 20'S IRC.

  4. BRACED WALL PAREL CONNECTIONS TO BLOOS/CEILING SHALL BE CONSTRUCTED
  IN ACCORDANCE WITH SECTION REQUISES.

  5. BRACED WALL PAREL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN
  ACCORDANCE WITH SECTION REQUISES.

  6. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
  ACCORDANCE WITH SECTION REQUISES.

  7. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
  ACCORDANCE WITH SECTION REQUISES.

  10. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REQUISES.

- (UNO)
  18. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
  19. ABBREVIATIONS:

NSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.103 AND FIGURE R602.10.1 OF THE 2015 IRC.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC.

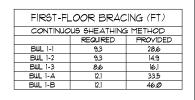
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SCALE: 1/8"=1"





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# CURRENT DRAWING DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT # 1/16/17 11290

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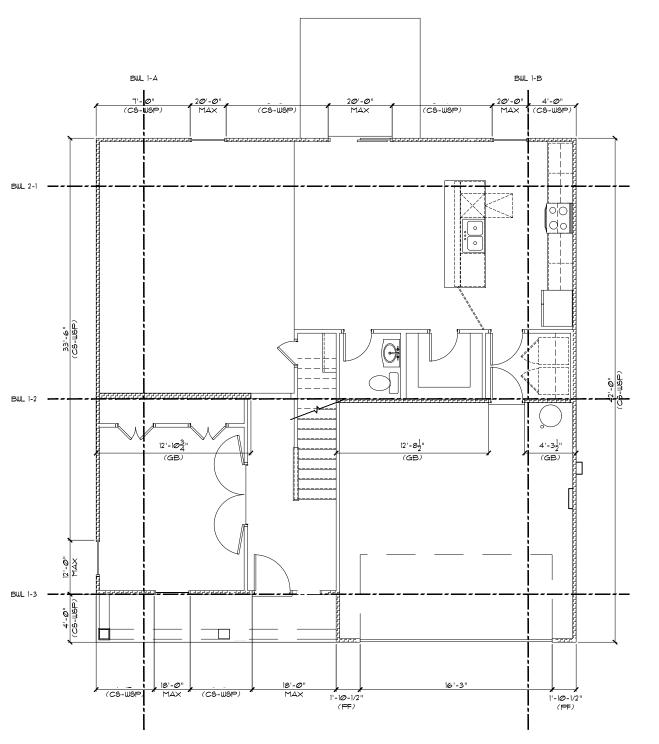
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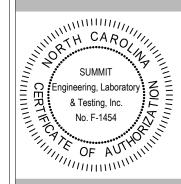
FIRST FLOOR BRACING PLAN

	REQUIRED BRACED WALL PANEL CONNECTIONS				
		MIN.	REQUIRED CONNECTION		
METHOD	MATERIAL	THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS	
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** 9 7" O.C.	
ENG-TP	FIBROUS LAMINATED STRUCTURAL SHEATHING	PER PRODUCT	E" CROWN X 1-1/2" LEG STAPLES @3"O.C.	E" CROWN X 1-1 LEG STAPLES @3"O.C.	
ENG-PF	FIBROUS LAMINATED STRUCTURAL SHEATHING	PER PRODUCT	PER DETAIL I/D8f	PER DETAIL I/D8f	
	В	ASED ON 16	" O.C. STUD SPACING		

FIRST-FLOOR BRACING (FT)					
CONTINUC	US SHEATHING	METHOD			
REQUIRED PROVIDE					
BWL 1-1	9.3	28.6			
BWL 1-2	9.3	14.9			
BWL 1-3	8.6	16.1			
BWL 1-A	12,1	33.5			
BWL 1-B	12,1	47.Ø			

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ENGINEERING LABORATORY TESTING

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PROJECT # 11290

LGI 720: Rale

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# BRACED WALL NOTES:

- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE DESIGN WIND
- SPEEDS UP TO 130 MPH.
  BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH

- BRACOME MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH THE TABLE ABOVE.

  REFER TO ARCHITECTURAL FLAN FOR DOORWINDOW OPENING SYZES.

  ALL BRACED WALL FAMELS SHALL BE FILL WALL HEIGHT AND SYZES.

  ALL BRACED WALL FAMELS SHALL BE FILL WALL HEIGHT AND SYZES.

  FIXED BY THE FLOW BIGLATED PAPEL METHOD AND IT HEID FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  THE INTERIOR SIDE OF EXTEROR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 12" GYPSWIN BOARD (WIND).

  EXTERNOR WALLS SHALL BE SHEATHED ON ALL SHEATHARD SWIFFACES INCLIDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OFFENING AND ON GABLE BND WALLS.

- N. LUDIK SHALL SERILED ON ALL SHALLS AND ALLS AND ALLS SHALLS AND ALLS SHALLS AND ALLS SHALLS AND ALLS SHEEN BRACED WALL PARELS, ARD ALL SHALLS AND ALLS SHALLS AND ALLS SHALLS AND ALLS SHALL SHALLS SHALLS SHALL SHALLS S
- SPACED AT 6" O.C. ALONG THE LENGTH OF BRACED WALL PANEL. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

ALLOWED FIBROUS LAMINATED STRUCTURAL SHEATHING REQUIRED CONNECTION TECHNICAL EVALUATION BRAND MATERIAL PRODUCT # PANEL EDGES # INTERMEDIATE SUPPORTS FIBROUS LAMINATED STRUCTURAL SHEATHING NATIONAL SHELTER RED: 1407-06 BLUE: 1407-07 E" CROWN X 1-1" LEG STAPLES @ 3"O.C. STAPLES @ 3"O.C. PRODUCTS INC. BI ACK: 1407-09 OX ENGINEERED FIBROUS LAMINATED THERMOPLY RED 8 CROWN X I-\frac{1}{2}" LEG PRODUCTS, LLC STRUCTURAL SHEATHING OR BLUE STAPLES @ 3"O.C. " CROWN X 1-1" LEG STAPLES @ 3"O.C. RED: 1004-01 BLUE: 1004-02 BARRICADE FIBROUS LAMINATED THERMOBRACE TO CROWN X 1-\frac{1}{4}" LEG STRUCTURAL SHEATHING RED OR BLUE STAPLES @ 3"O.C. "B" CROWN X 1-4" LEG STAPLES @ 3"O.C. RED: 1507-08 BLUE: 1507-09 PRODUCTS \*BASED ON TECHNICAL EVALUATION REPORTS FROM DrJ ENGINEERING, LLC

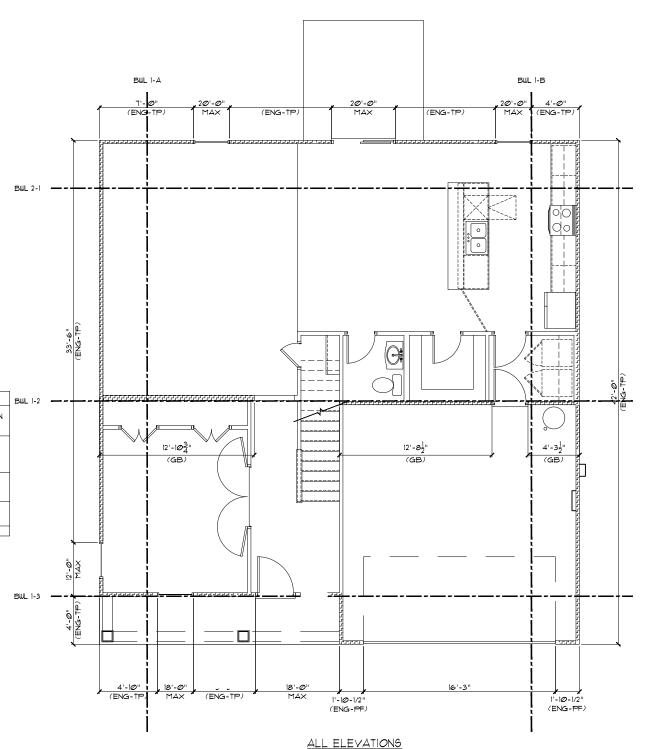
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN SCALE: 1/8"=1"



FIBROUS LAMINATED STRUCTURAL SHEATHING OPTION

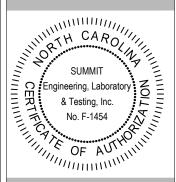
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1	REQUIRED BRACED WALL PANEL CONNECTIONS			
		MIN.	REQUIRED CONNECTION	
METHOD	MATERIAL	THICKNESS	e PANEL EDGES	INTERMEDIATE     SUPPORTS
C5-W6P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS ● 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** @ T" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS
PF.	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4
	"OR I	QUIVALENT	PER TABLE R10235	

# SECOND-FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD

	REQUIRED	PROVIDE			
JL 2-1	I.F	34 <i>Ø</i>			
L 2-2	T.I	27.8			
L 2-A	6.8	35.Ø			
1 2-B	68	100			

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CURRENT DRAWING

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DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

LGI 720: Rale

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE

PROJECT # 1/16/17 11290

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

WILL CAN'T ORTH CAROLA

NGINEER OF 14/21

STRUCTURAL MEMBERS ONLY

S8.0

## BRACED WALL NOTES:

- BRACED WALL NOTES

  L WALLS SHALL BE DESIGNED IN ACCORDANCE W SECTION REGIZIO FROM THE 2015
  NITERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AMENDMENTS.

  2. WALLS ARE DESIGNED FOR SEISMIC ZORES AND ULTIMATE DESIGN WIND
  SPEEDS UP TO 180 PMT.

  3. REFER TO ARCHITECTURAL PLAN FOR DOORNUNDOW OFFENDS SIZES.

  4. BRACINE MATERIALS, PHILLODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
  TABLE REGIZION

  5. ALL BRACED WALL PANELS SHALL BE FILL WALL HEIGHT AND SHALL NOT
  EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND D FEET FOR CONTINUOUS
  SHALTING INTENDED TO THE PANELS SHALL BE SHALL DESIGNEDS.

  6. MINIMIT PANEL LENGTH SHALL BE FIER TABLE REGIZIOS.

  1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS
  SHALL BE SHEATHED CONTINUOUS, WITH INNIVIAL 12" STYPSMI BOARD (WO).

  6. FOR CONTINUOUS SHEATHED THENDE PETEROR WALLS SHALL BE SHEATHED ON
  ALL SHEATHABLE SURFACES INCLIDING INTLE MEASS BETWEEN BRACED WALL
  FANELS, ABOVE AND BECOM WALL OFFINIONS, AND ON AGALL END WALL
  FANELS, ABOVE AND BECOM WALL OFFINIONS, AND ON AGALL END WALL
  OR BEARTH WALL BE HALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
  BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
  BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
  BRACED WALL PANEL SHALL BE BUREND BRACED WALL PANELS OF THE PANELS ON A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
  BRACED WALL PANEL SHALL BE BUREND BRACED WALL PANELS SHALL NOT

  1. THE MANIMITY BORD DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT

  1. DECEMBER OF THE PANELS OF THE PANEL

- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET.

  APPEALATE COMINIOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY UTIL NEC SECTION R80723.

  MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FOURE R807109 OF THE 20'S INC.

  BRACED WALL PANEL CONNECTIONS TO FLOORICELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R807109.

  BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R8071093.

  CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R8071093.

- ACCORDANCE WITH SECTION R602.10.11
  PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4
- (UNC)

  18. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

  19. ABBREVIATIONS:

NSTALL HOLD-DOUNS FOR BRACED WALL END CONDITIONS PER SECTION R602.108 AND FIGURE R602.10.1 OF THE 2015 IRC.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC.

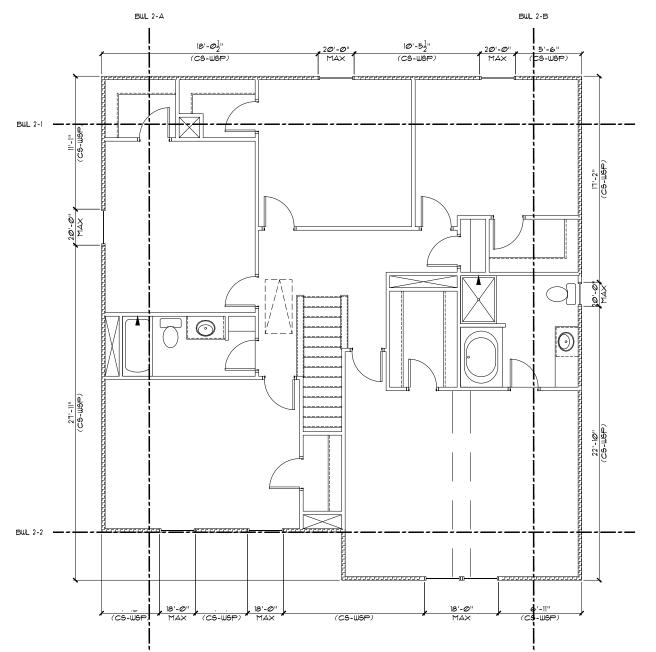
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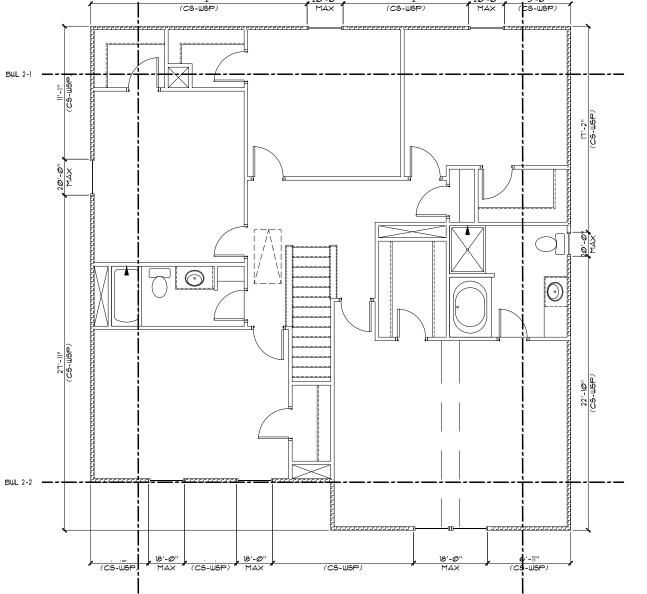
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR BRACING PLAN SCALE: 1/8"=1"





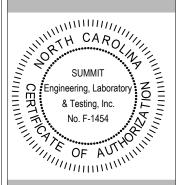
ALL ELEVATIONS

	REQUIRED BRACED WALL PANEL CONNECTIONS			
	MIN.		REQUIRED CONNECTION	
METHOD	MATERIAL	THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** ® 7" O.C.	5d COOLER NAILS** ⊕ 7" O.C.
ENG-TP	FIBROUS LAMINATED STRUCTURAL SHEATHING	PER PRODUCT	E" CROWN X 1-1 LEG STAPLES @3"O.C.	E" CROWN X 1-1 LEG STAPLES @3"O.C.
ENG-PF	FIBROUS LAMINATED STRUCTURAL SHEATHING	PER PRODUCT	PER DETAIL I/D8f	PER DETAIL I/D8f
	·B	ASED ON 16	" O.C. STUD SPACING	

SECOND-FLOOR BRACING (FT)				
CONTINUOUS SHEATHING METHOD				
	REQUIRED	PROVIDED		
BWL 2-1	1.1	34.0		
BWL 2-2	1.1	27.8		
BWL 2-A	6.8	35.0		
BIII 2-B	68	400		

	SUMMIT
П	ENGINEERING LABORATORY TESTING

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# 4 OFFICE Suite STUDY HOME Road, Bracin Creedmoor F gh, NC 27613 loor LGI Homes 7201 Creed Raleigh, NC 正 MADISON Second

CURRENT DRAWING

DATE: 10/12/21

SCALE: 1/8"=1'-0"

PROJECT #: 1203-08R: 21194R3

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE

PROJECT # 11290

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OR SEESSION

ONGINE 10/14/21

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S8.1

# BRACED WALL NOTES:

- FIBROUS LAMNATED STRUCTURAL SHEATHING BRACED WALLS HAVE BEEN DESIGNED IN ACCORDANCE WITH SECTION R3/0/13 OF THE 2/0/8 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE DESIGN WIND SPEEDS UP TO 130 MPH.

- SPEEDS UP TO 190 MPL

  BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH

  THE TABLE ABOVE.

  BEFER TO ARCHITECURAL, PLAN FOR DOORWINDOW OPENING SIZES,

  ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT

  EXCEED IVER BET FOR ISIOLATED PANEL METHOD AND IVER THE FOR CONTINUOUS

  SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCILATIONS,

  SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCILATIONS,

  SHEATHING SIZE OF CHITECORY WALLS AND BOTH SIDES OF INTERIOR WALLS

  SHALL BE SHEATHED CONTINUOUSLY WITH MINIMAN IN" GYPBUN BOARD (UNO).

  EXTERIOR WALLS SHALL BE VERATHED ON ALL SHEATHALED ENGRACES

  INCLUDING INFILL AREAS BETWEEN BRACED WALL FANELS, ABOVE AND BELOW

  WALLD CHINGS, AND ON GABLE FIDI WALLS.

- EXTENOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE WIFARDLE WIFACH.

  MICLIONIS NIFLL AREAS BETWEEN PRACED WALL PANELS, ABOVE AND BELOW

  WALL OPENINGS, AND ON GABLE END WALLS.

  FLOORS SHALL NOT BE CARTILLEVERED MORE THAN 24" BEYOND THE FOUNDATION

  OR BEARNIS WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 PEET OF EACH END OF A

  BRACED WALL LINE.

  THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A

  BRACED WALL LINE SHALL BE LOCATED HER OF THE THAN 10 PEET.

  MASONET OR CONCRETE STEM WALLS WITH A LEWSTH OF 49 OR LESS

  SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH

  FIGURE REACED WALLS SHALL HAVE FULL DEFTH BLOCKING INSTALLED

  BETWEEN DISTS THAT SHAM PERPENDICULAR OVER THE WALL WHERE JOSTS

  SPAN PERPENDICULAR ADJACENT TO INTERIOR BRACED WALLS FILL DEPTH

  BLOCKING SHALL BE INSTALLED BETWEEN DISTS SPACED AND INTO OCCUPANT OF THE

  BLOCKING SHALL BE NOTATION BY THE ADDITION OF THE WALL WHERE JOSTS

  SPAN PERPENDICULAR ADJACENT TO INTERIOR BRACED WALL WITH (3)

  DO TON NAIL OF THE TRUBES OF THAT ADDITION OF THE PRACED WALL WITH (3)

  TO THE RAFFERS/PROFT FRIESDES EXCEEDS 5-147 2V4 BLOCKING SHALL BE

  NISTALLED BETWEEN THE TOP OF BRACED WALL PANEL TO THE TOP

  OF THE RAFFERS/PROFT FRIESDES EXCEEDS 5-147 2V4 BLOCKING SHALL BE

  NISTALLED BETWEEN THE TOP OF BRACED WALL PANEL.

  WHERE THE DISTANCE BETWEEN THE TOP OF BRACED WALL PANEL.

  WE TO CO. CLANCE THE LIBSTH OF BRACED WALL PANEL.
- SPACED AT 6" O.C. ALONG THE LENGTH OF BRACED WALL PANEL.
  ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS,
  ABBREVIATIONS:

GB = GYPSUM BOARD USP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION PF-ENG = ENG. PORTAL FRAME

	ALLOWED FIBROUS LAMINATED STRUCTURAL SHEATHING					
BRAND	RAND MATERIAL	PRODUCT -	REQUIRED CONNECTION		TECHNICAL EVALUATION	
DRAND			@ PANEL EDGES	• INTERMEDIATE SUPPORTS	REPORT:	
NATIONAL SHELTER PRODUCTS, INC.	FIBROUS LAMINATED STRUCTURAL SHEATHING	DRYLINE TSX RED, BLACK, OR BLUE	FI CROWN X I-1/4" LEG STAPLES @ 3"O.C.	F CROWN X I-4" LEG STAPLES @ 3"O.C.	RED: 1401-06 BLUE: 1401-01 BLACK: 1401-09	
OX ENGINEERED PRODUCTS, LLC	FIBROUS LAMINATED STRUCTURAL SHEATHING	THERMOPLY RED OR BLUE	F CROWN X 1-1" LEG STAPLES # 3"O.C.	E" CROWN X 1-¼" LEG STAPLES ⊕ 3"O.C.	RED: 1004-01 BLUE: 1004-02	
BARRICADE BUILDING PRODUCTS	FIBROUS LAMINATED STRUCTURAL SHEATHING	THERMOBRACE RED OR BLUE	E" CROWN X 1-1;" LEG STAPLES @ 3"O.C.	E" CROWN × 1-¼" LEG STAPLES ⊕ 3"O.C.	RED: 15Ø1-Ø8 BLUE: 15Ø1-Ø9	
	*BASED ON TECHNICAL EVALUATION REPORTS FROM Dr.J ENGINEERING, LLC					

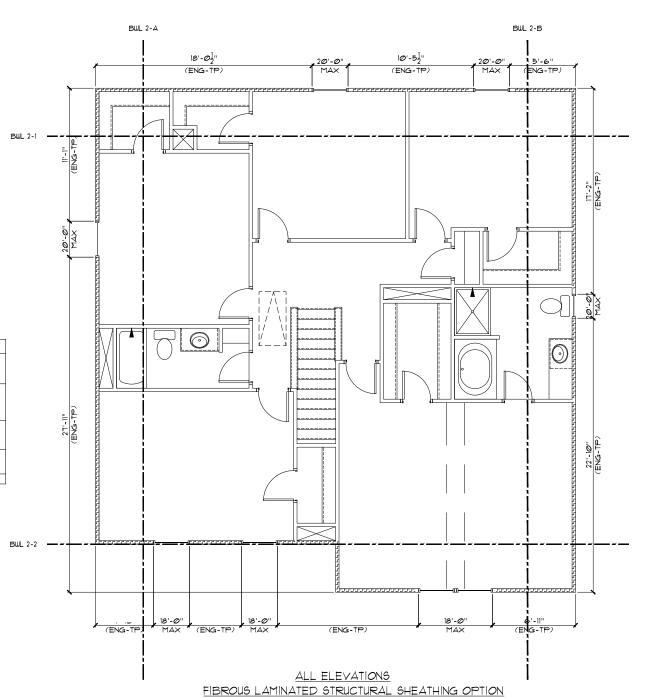
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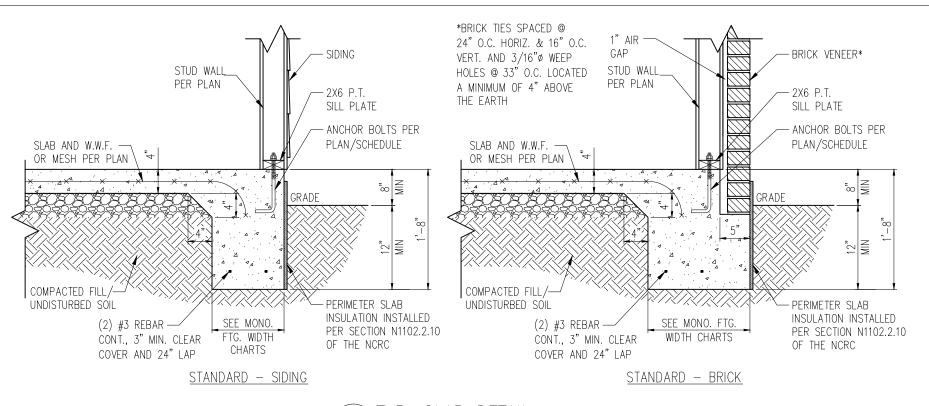
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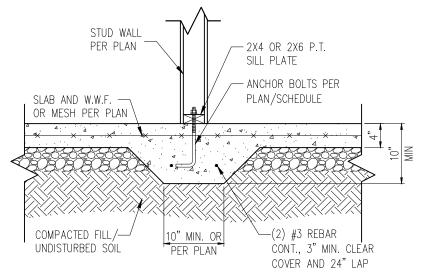
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

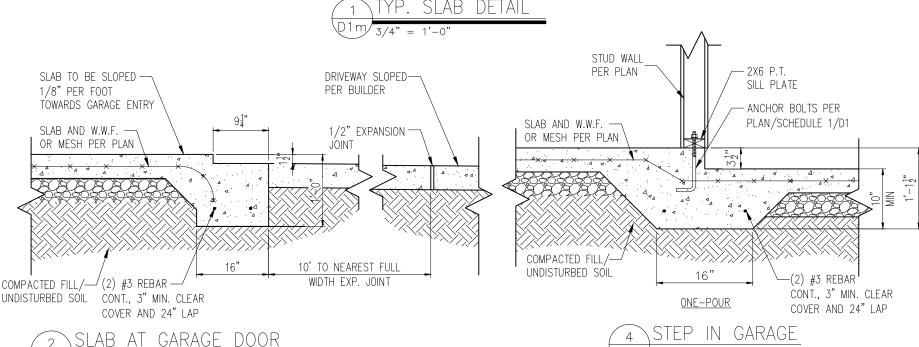
SECOND FLOOR BRACING PLAN SCALE: 1/8"=1"







THICKENED SLAB DETAIL



WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MASA	4"	6'-0"	NO	YES
1/2"ø THREADED ROD w/	7"	6'-0"	YES	YES
w/ SST SET-XP EPOXY				
1/2"ø SST TITEN HD	4-1/4"	6'-0"	YES	YES

- 1) INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.
- 2) EQUIVALENT ANCHORS MAY BE USED. SIZE & SPACING PER MANUF. SPECS.

# MONOLITHIC FOOTING WIDTH

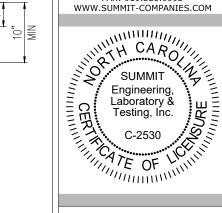
FOOTING WIDTH FOR BRICK SUPPORT

# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
1 STORY - STD.	16"	16"	16"	
1 STORY - BRICK VENEER	21"*	21"*	21"*	
2 STORY - STD.	16"	16"	16"	
2 STORY - BRICK VENEER	21"*	21"*	21"*	
3 STORY - STD.	23"	18"	18"	
3 STORY - BRICK VENEER	32"*	24"*	24"*	
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC				



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# Details LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Slab Standard Details Monolithic

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

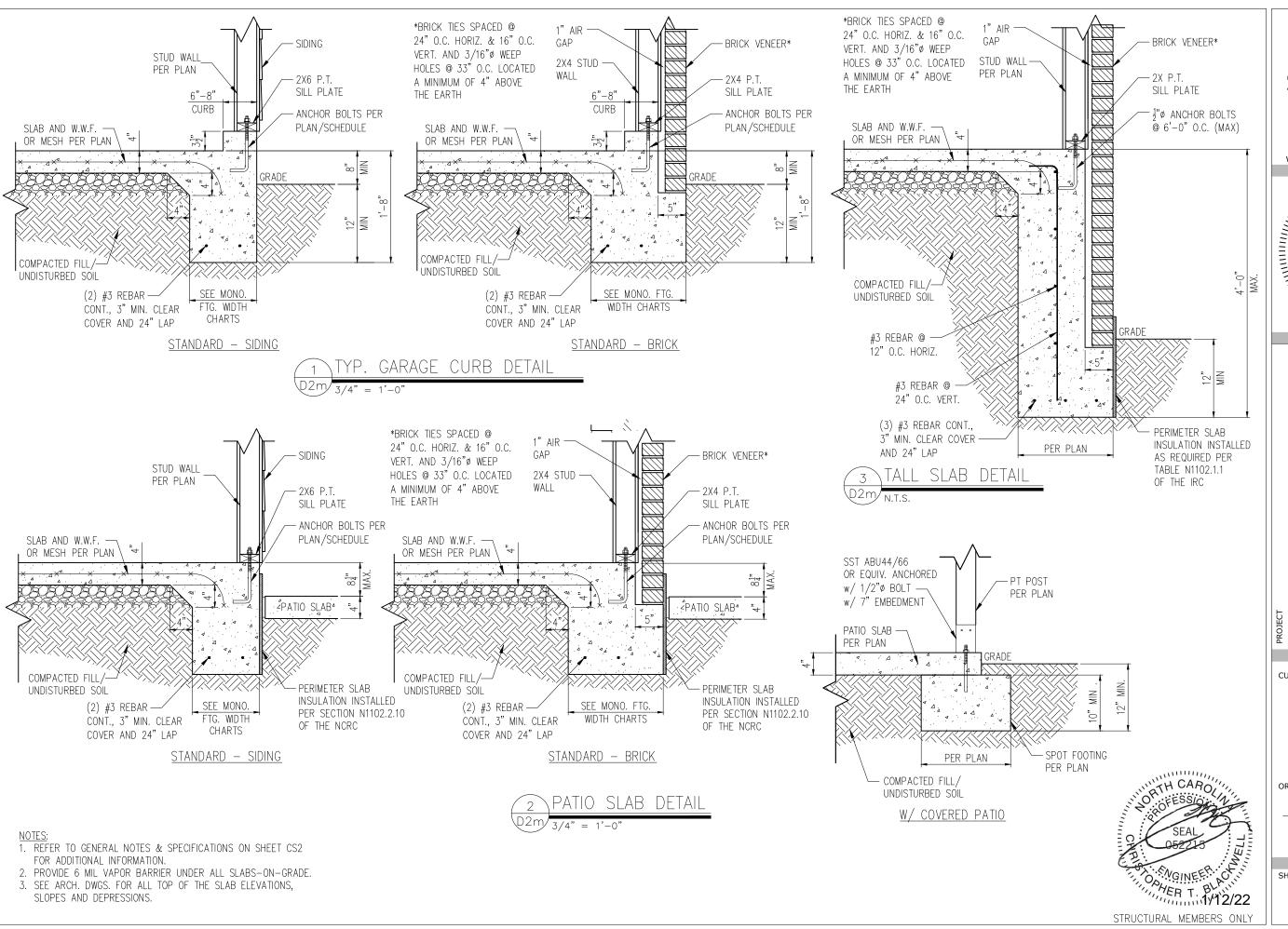
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D<sub>1</sub>m

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

SLOPES AND DEPRESSIONS.

2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,





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CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: CTB

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DATE 10/01/19

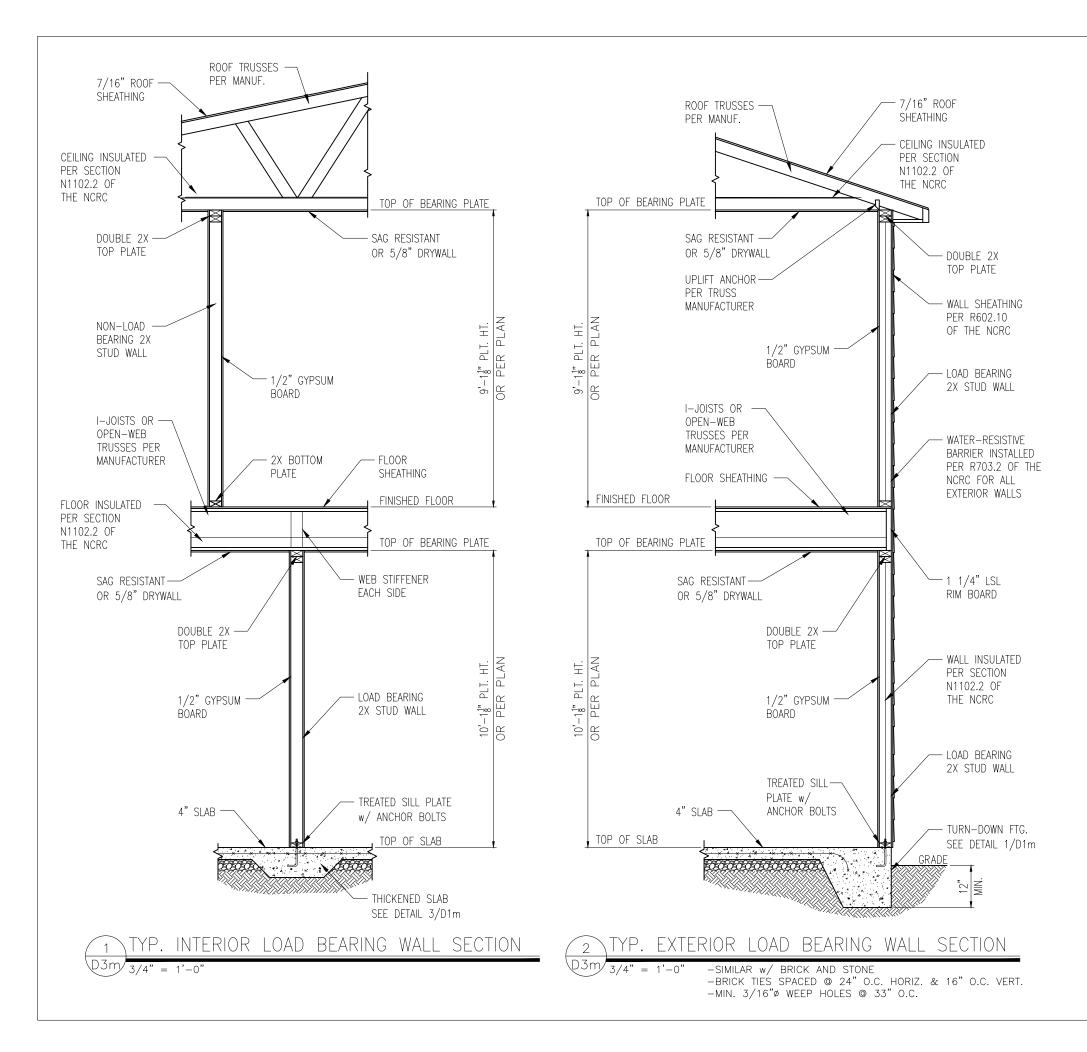
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COMPLETE LIST OF REVISIONS

D<sub>2</sub>m





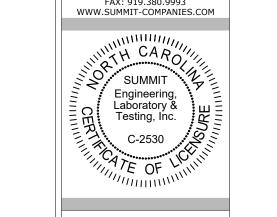
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3. SEE ARCH. DWGS. FOR ALL SLOPES AND DEPRESSIONS.



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Details LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Slab Standard Details Monolithic

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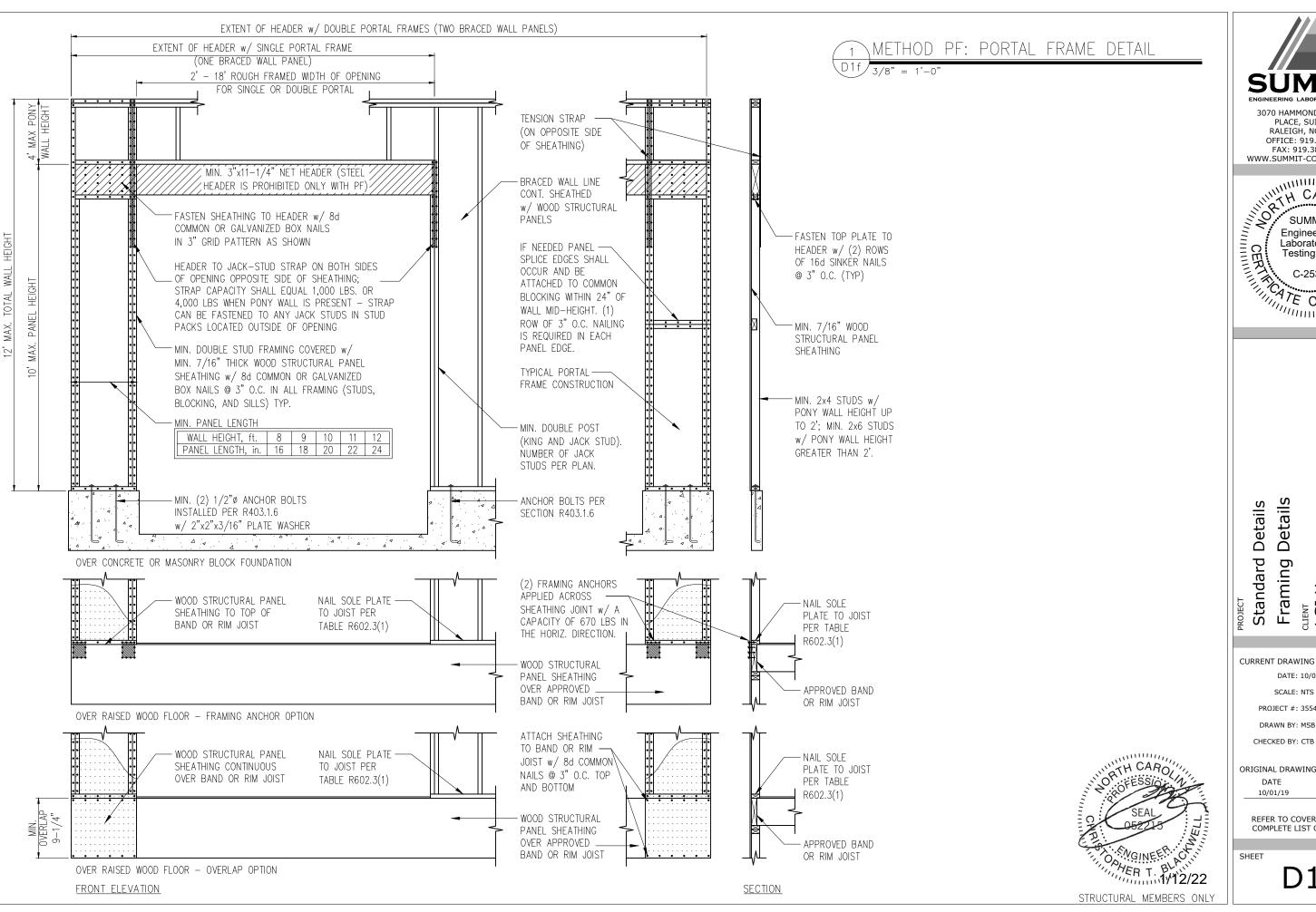
SHEET

D<sub>3</sub>m

SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

TOP OF THE SLAB ELEVATIONS,

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> Details Details CLEI Homes 3037 Sherma Lancaster, SC Framing Standard

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10/01/19

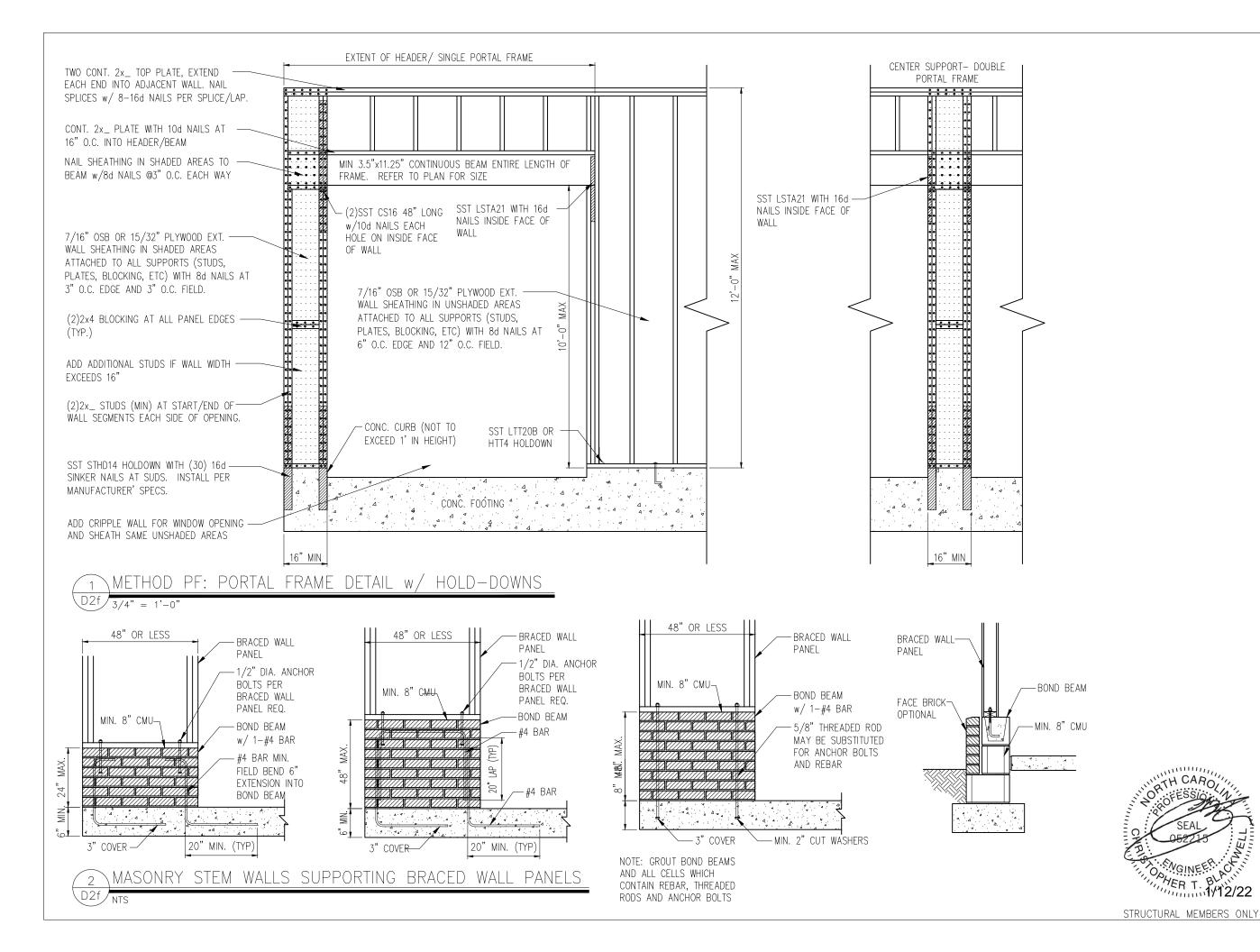
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PROJECT #

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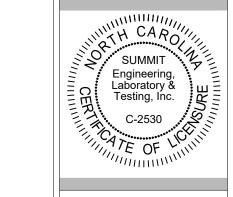
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Standard Details
Framing Details - Bracing
LGI Homes
3037 Sherman Drive
Lancaster, SC 29720

CURRENT DRAWING

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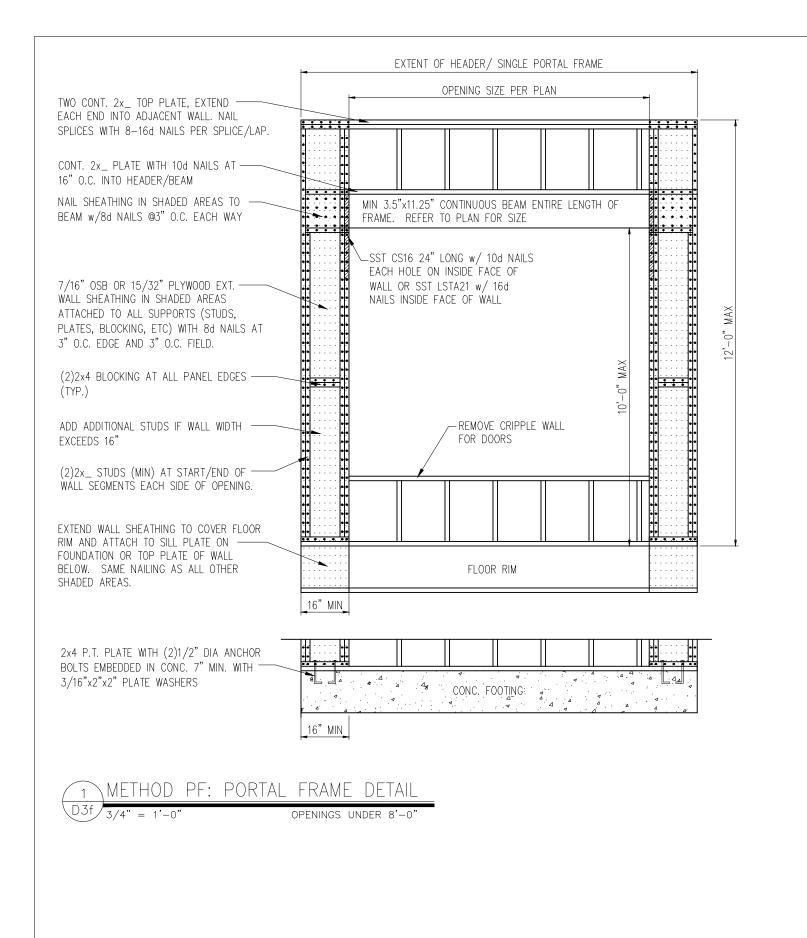
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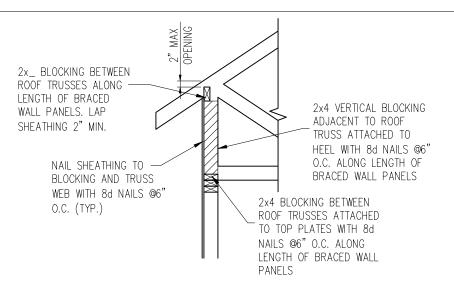
PROJECT # 24512

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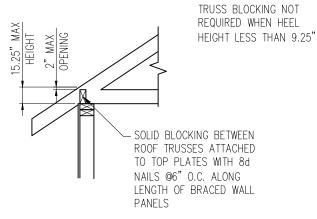
SHEET

D2f





HEEL HEIGHT BETWEEN 15.25" AND 48"



HEEL HEIGHT BETWEEN 9.25" AND 15.25"

TYP. WALL PANEL TO ROOF TRUSS CONNECTION





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> Bracing LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Details Details Framing Standard

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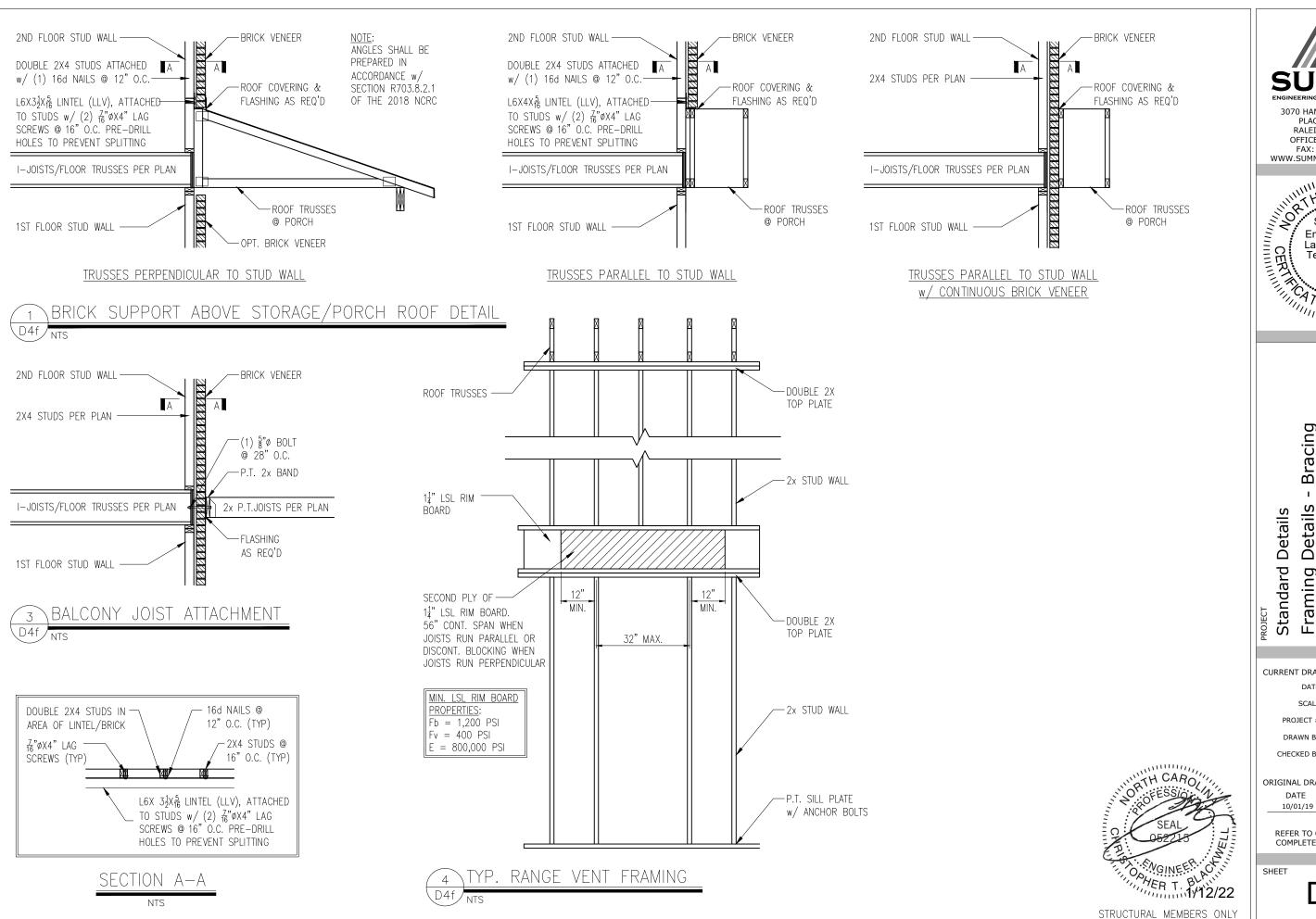
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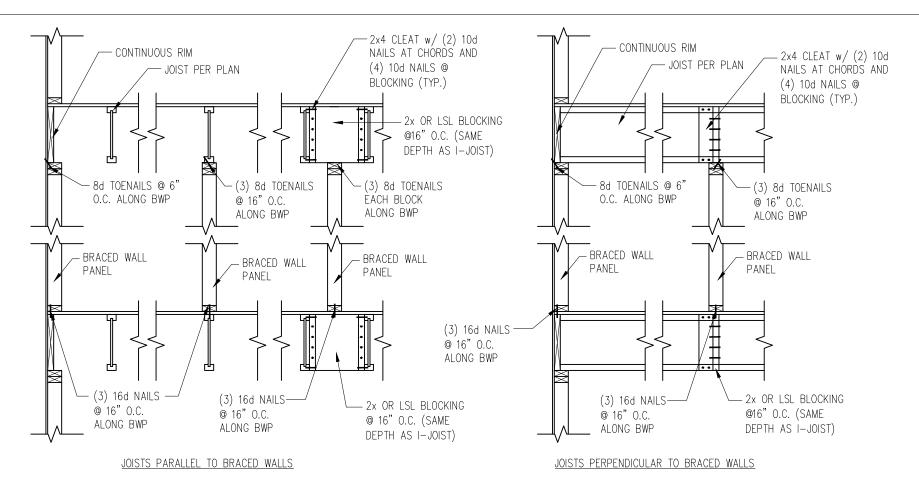
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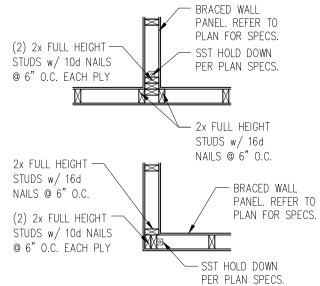
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PROJECT # 24512

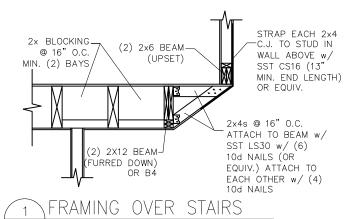
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4f



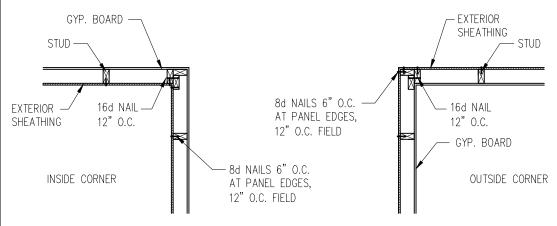


# TYP. HOLD DOWN DETAIL D5f 1" = 1'-0"

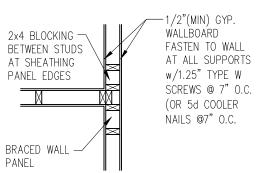


TYP. WALL PANEL TO FLOOR/CEILING CONNECTION

D5f 1" = 1'-0"







3 INTERIOR 3-STUD WALL INTERSECTION



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C-2530

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Standard Details
Framing Details - Bracing
LGI Homes
3037 Sherman Drive
Lancaster, SC 29720

CURRENT DRAWING

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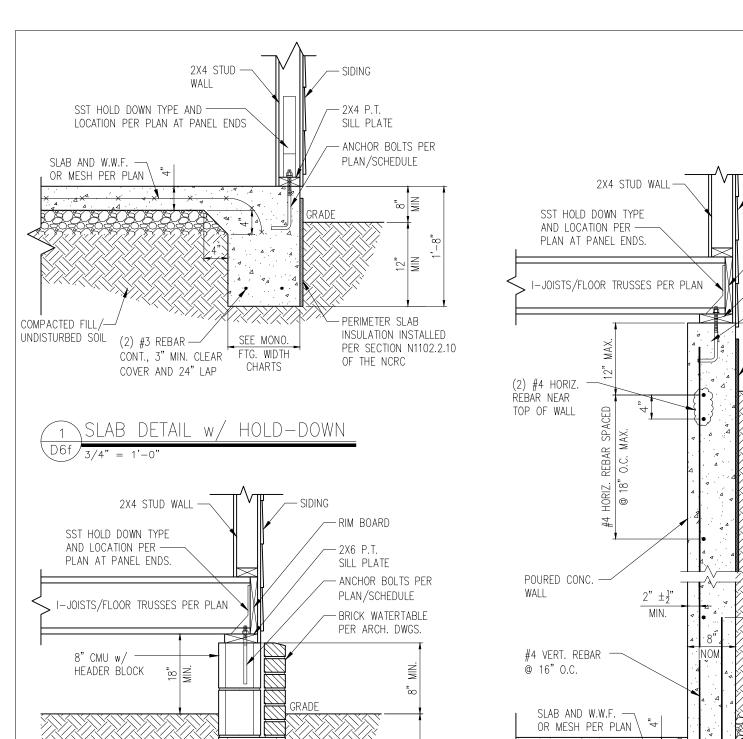
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D5f



(2) #3 REBAR

CONT., 3" MIN. CLEAR

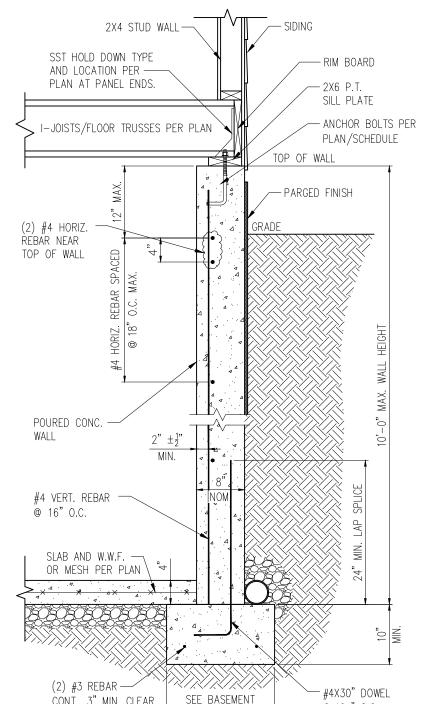
COVER AND 24" LAP

SEE CRAWL SPACE

FTG. WIDTH CHARTS

CRAWL FOUNDATION WALL DETAIL W/ H-D

12" CMU



FTG. WIDTH CHARTS

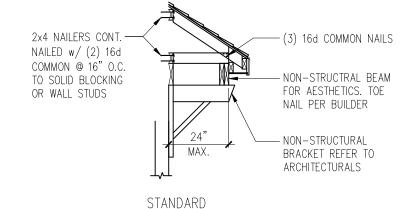
STANDARD - SIDING

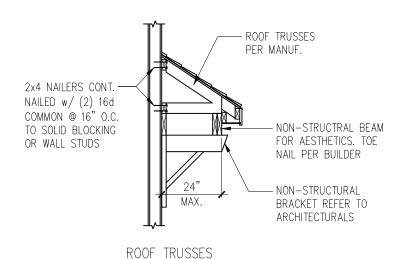
@ 16 " O.C.

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN

CONT., 3" MIN. CLEAR

COVER AND 24" LAP







ONGINEER OF SHER T. BY 12/22

STRUCTURAL MEMBERS ONLY



3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Bracing LGI Homes 3037 Sherman Drive Lancaster, SC 29720 Framing Details Standard Details

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

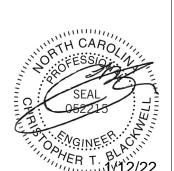
ORIGINAL DRAWING

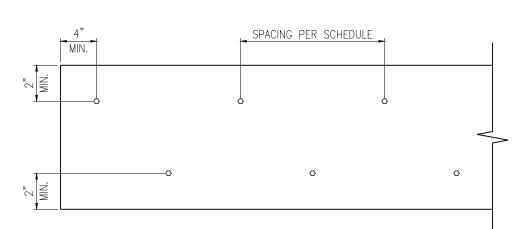
DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

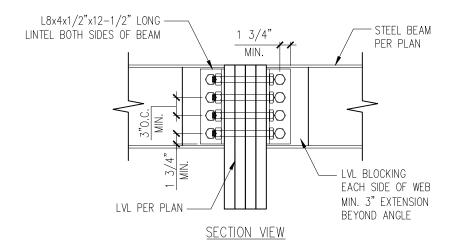
D6f

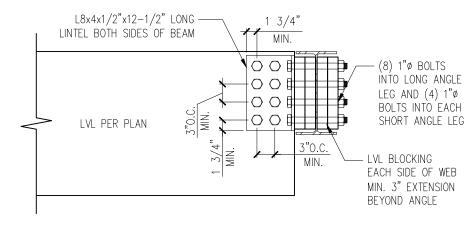




ELEVATION VIEW

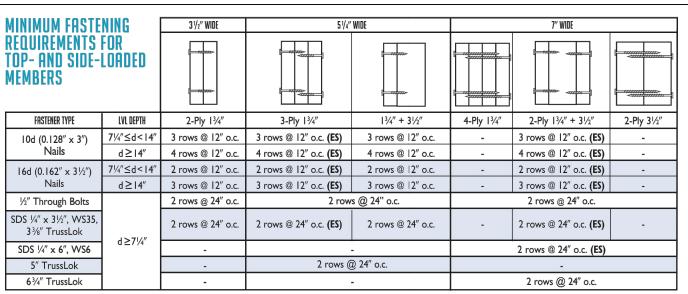
# 1 MULTI-PLY BEAM CONNECTION DETAIL D7f N.T.S





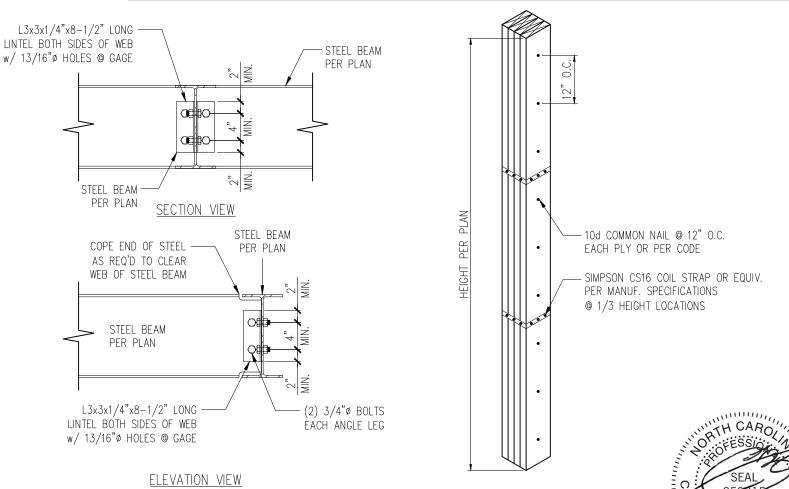
ELEVATION VIEW

2 LVL TO STEEL DETAIL D7f N.T.S



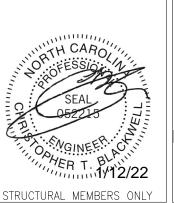
### NOTES:

- I.All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- 2. Minimum fastening requirements for depths less than  $7\frac{1}{4}$ " require special consideration. Please contact your technical representative.
- $3. Three general rules for staggering or offsetting for a certain fastener schedule: \\ (I) if staggering or offsetting is not referenced, then none is required;$
- (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and
- (3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



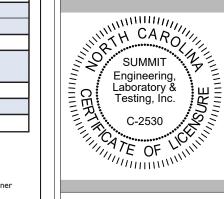






SUMMIT ENGINEERING LABORATORY TESTING

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Standard Details
Framing Details - Bracing
LGI Homes
3037 Sherman Drive
Lancaster, SC 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19

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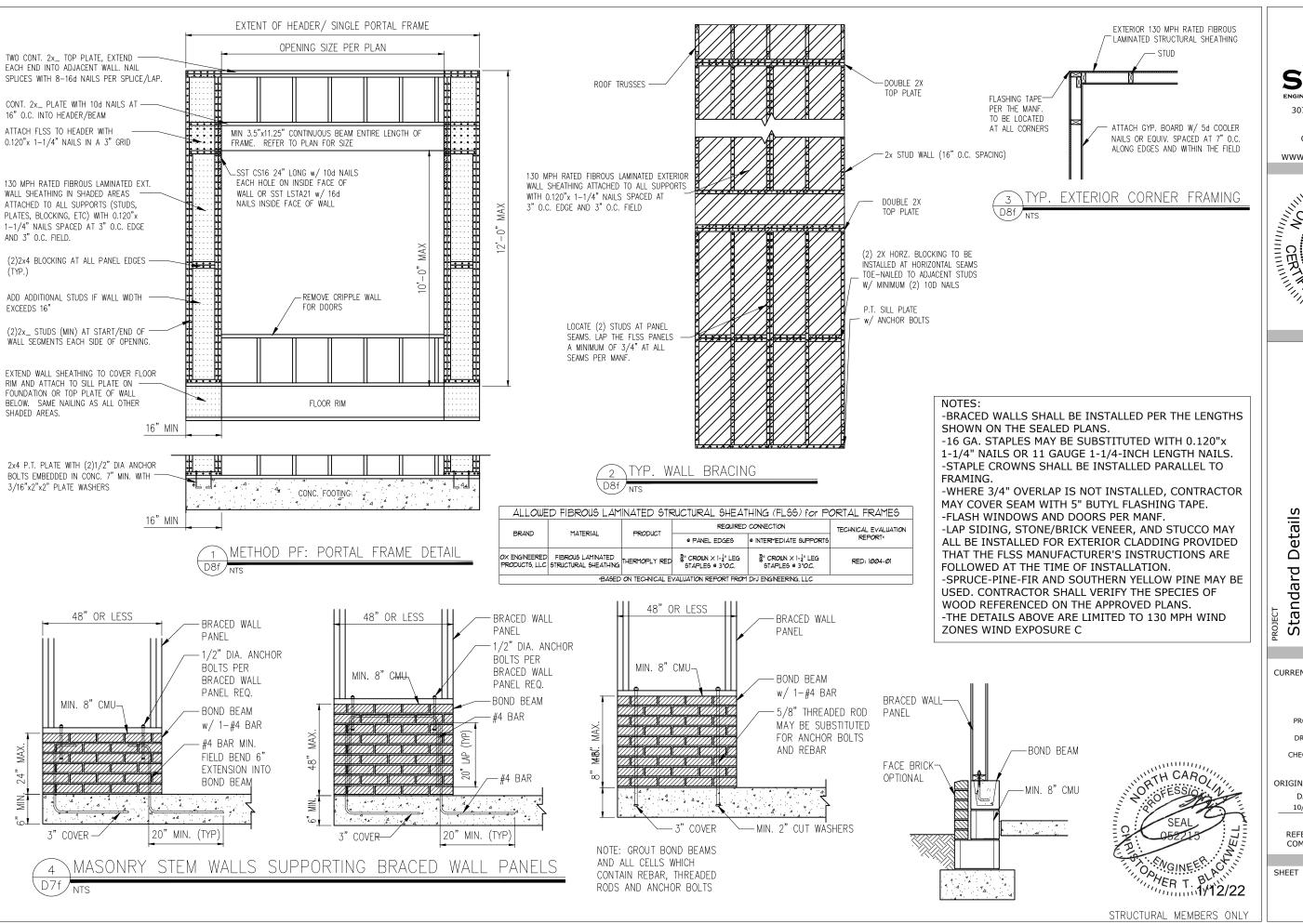
PROJECT #

24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D7f



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# Bracing Details Details CLENT LGI Homes 3037 Sherma Lancaster, SC Framing

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CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

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D8f