

# THE HENDERSON AT ATHERSTONE COMMUNITY

## SQUARE FOOTAGES

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.)	= 625 sf <u>= 835 sf</u> 1460 sf
GARAGE FRONT PORCH	= 250 sf = 25 sf
TOTAL	= 1735 sf

## INDEX OF SHEETS

A1.0	COVER SHEET
A1.1	GENERAL NOTES
A2.0	FIRST FLOOR PLAN & NOTES
A2.1	SECOND FLOOR PLAN
A3.0	EXTERIOR ELEVATIONS & NOTES
A3.1	EXTERIOR ELEVATIONS
E1.0	FIRST FLOOR ELECTRICAL PLAN
E1.1	SECOND FLOOR ELECTRICAL PLAN

# INDEX OF SHEETS (CONT.)

CS1	COVER SHEET, SPECIFICATIO
CS2	COVER SHEET (CONTINUED)
S1.0m	MONOLITHIC SLAB FOUNDAT
S3.0	FIRST FLOOR FRAMING PLAN
S4.0	SECOND FLOOR FRAMING PL
S7.0	FIRST FLOOR BRACING PLAN
S8.0	SECOND FLOOR BRACING PL

# 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, ARCHITECT 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 NC / SC 704-953-3824



ONS, REVS.

ΓΙΟΝ N

LAN N

LAN

#### GENERAL NOTES

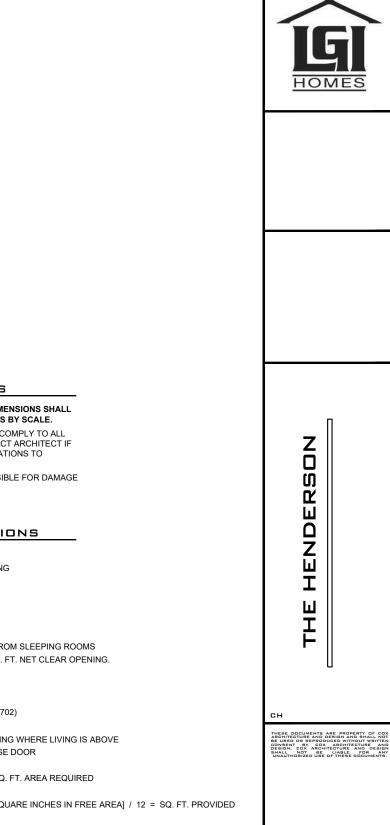
## -DO NOT SCALE DRAWINGS; DESIGNATED DIMENSIONS SHALL BE USED IN PREFERENCE TO MEASUREMENTS BY SCALE.

-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 % 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



PERMIT SET

● 30 SEPTEMBER 2022

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 SUBFL, / CONC, 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 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

6'-8'

3'-0"

<u>30</u>	<u>68</u>	
		Height: Width:
		WIDTH.

DOORS: P = POCKET WINDOWS: SH = SINGLE HUNG F = FIXED

#### INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

### CLIMATE ZONE 3A

TABLE N1102.1.2

CEILING: R-38 FLOOR: R-19 WALL R-15 SLAB: R-0

#### SQUARE FOOTAGES

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.)	= 625 s = 835 s 1460 s
GARAGE FRONT PORCH	= 250 s = 25 s
TOTAL	= 1735 s

#### FLOOR PLAN LEGEND

5S	5 SHELVES
1R 2S	1 ROD, 2 SHELVES
2R 2S	2 ROD, 2 SHELVES
HR	HANGING ROD
CO	CASED OPENING
W D	WASHER, DRYER
D/W	DISH WASHER
FRIG	REFRIGERATOR
LS	LAZY SUSAN
М	MIRROR
	SHOWER HEAD
RH	RAIN HEAD
Ō	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 STAIR CONSTRUCTION

#### CEILING HEIGHT NOTES

8' - 1 ½" CEILING HEIGHTS ON FIRST FLOOR 8' - 1 ½" CEILING HEIGHTS ON SECOND FLOOR

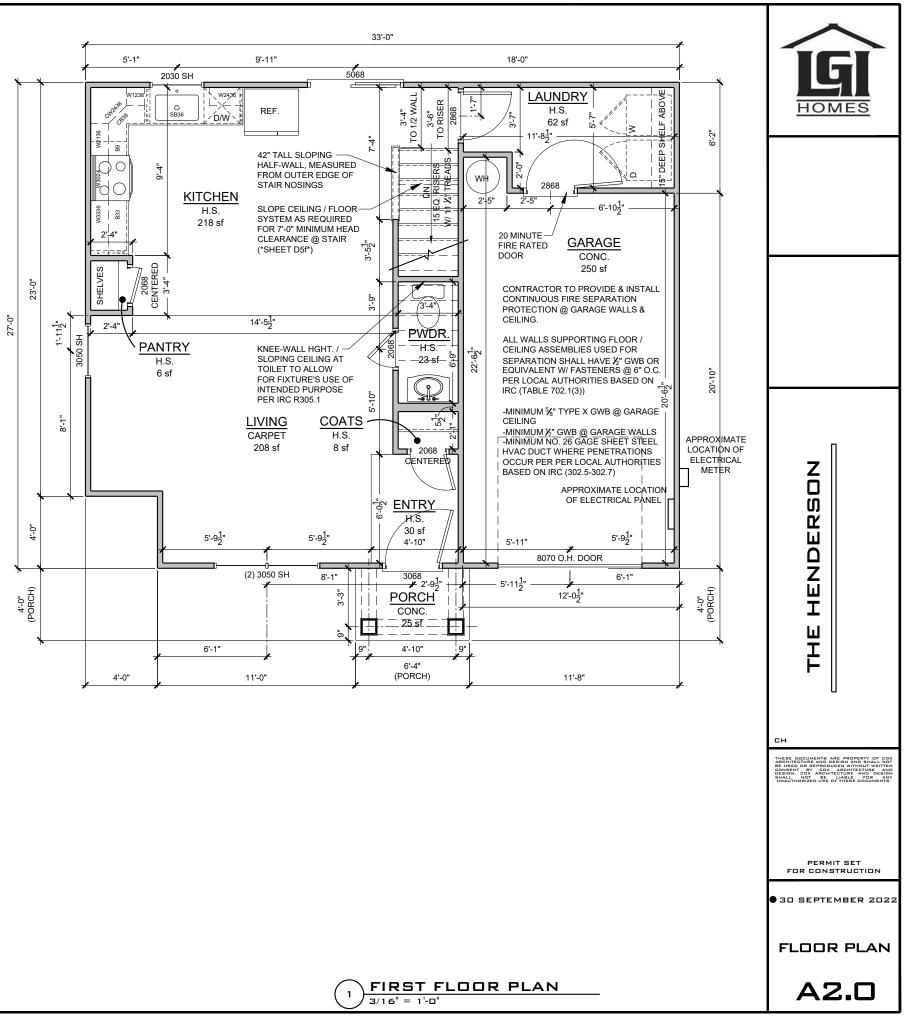
> MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

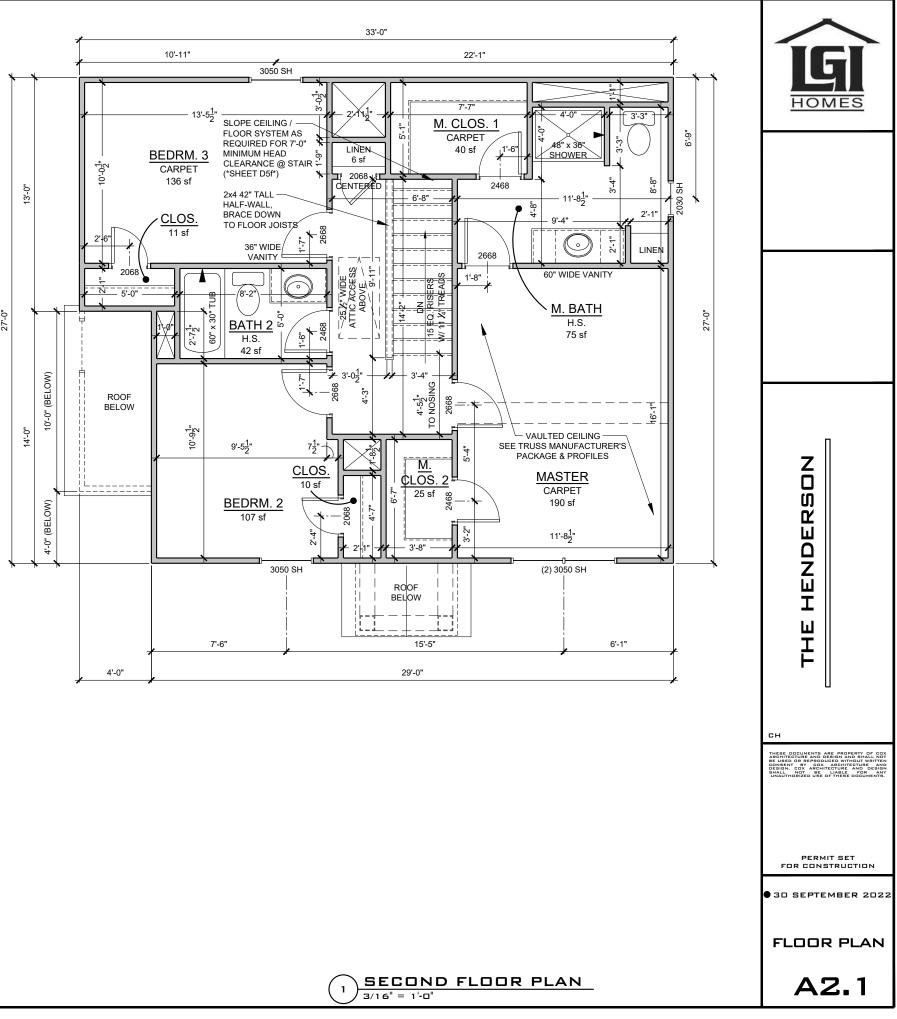
#### COLUMN NOTES

COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM) TOP CONNECTION: (2) #8 - ½" 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) 1/2" 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.





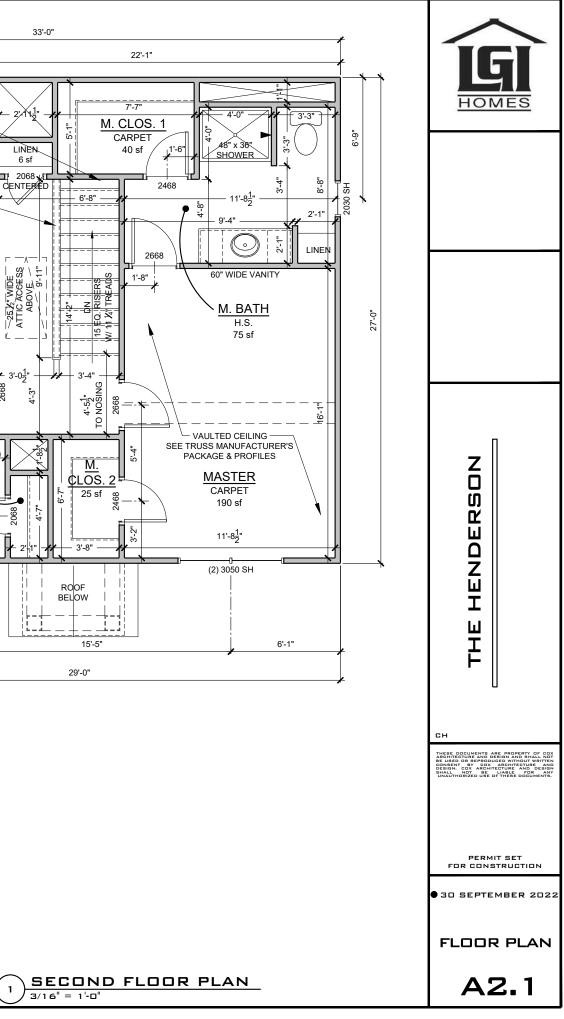
## SQUARE FOOTAGES

FIRST FLOOR (HTD.) SECOND FLOOR (HTD.)	= 625 sf = 835 sf 1460 sf
GARAGE FRONT PORCH	= 250 sf = 25 sf
TOTAL	= 1735 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



### CEILING HEIGHT NOTES

8' - 1 %" CEILING HEIGHTS ON FIRST FLOOR 8' - 1 ½" CEILING HEIGHTS ON SECOND FLOOR

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

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

#### 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.

-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.

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

#### 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 -ROOF SHEATHING TO BE 2/2" T&G PLYWOOD W/ METAL CLIPS @ ENDS. SEPARATION DISTANCE BETWEEN SHALL COMPLY WITH LOCAL AUTHORITIES BASED ON IRC (R302.1.1):

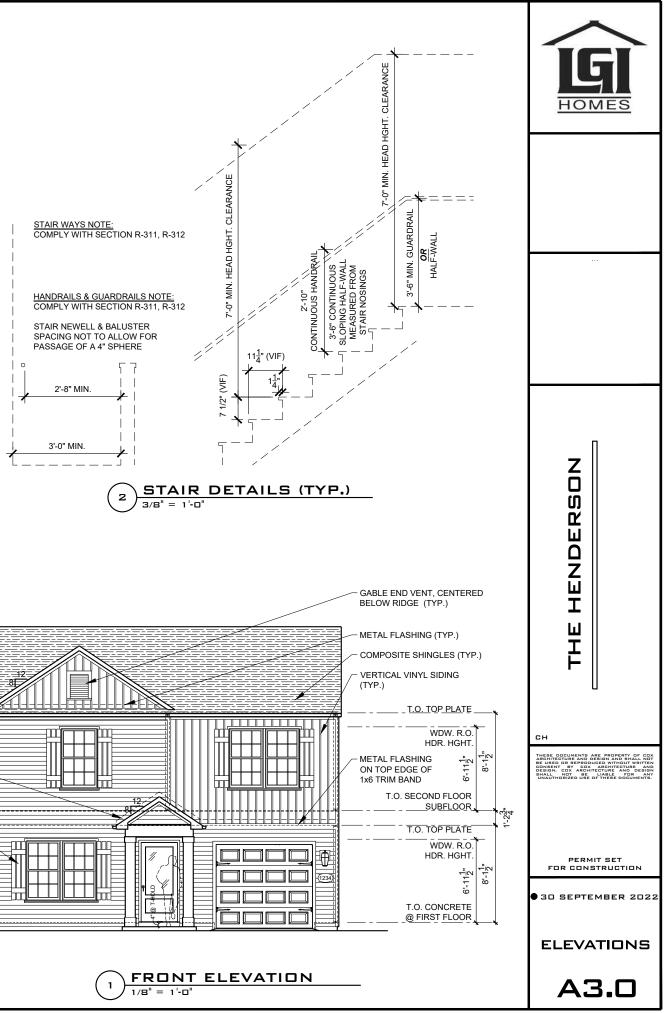
IN CONSTRUCTION USING VINYL OR ALUMINUM SOFFIT MATERIAL. THE FOLLOWING APPLICATION SHALL APPLY. SOFFIT ASSEMBLIES MUST BE SECURELY ATTACHED TO FRAMING MEMBERS AND APPLIED OVER FIRE-RETARDANT-TREATED WOOD, 23/32-INCH WOOD SHEATHING OR 5/8-INCH EXTERIOR GRADE OR MOISTURE SUB-CONTACTOR TO VERIFY NUMBER & LOCATION OF DOWNSPOUTS ALL SUNCE OF DOORS WITH A DITCH OF 4/12 OF LESS DECILIDE ALL SUNCE OF DOORS WITH A DITCH OF 4/12 OF LESS DECILIDE PROVIDED IN BOTH SOFFIT AND UNDERLAYMENT. VENTS SHALL BE 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.

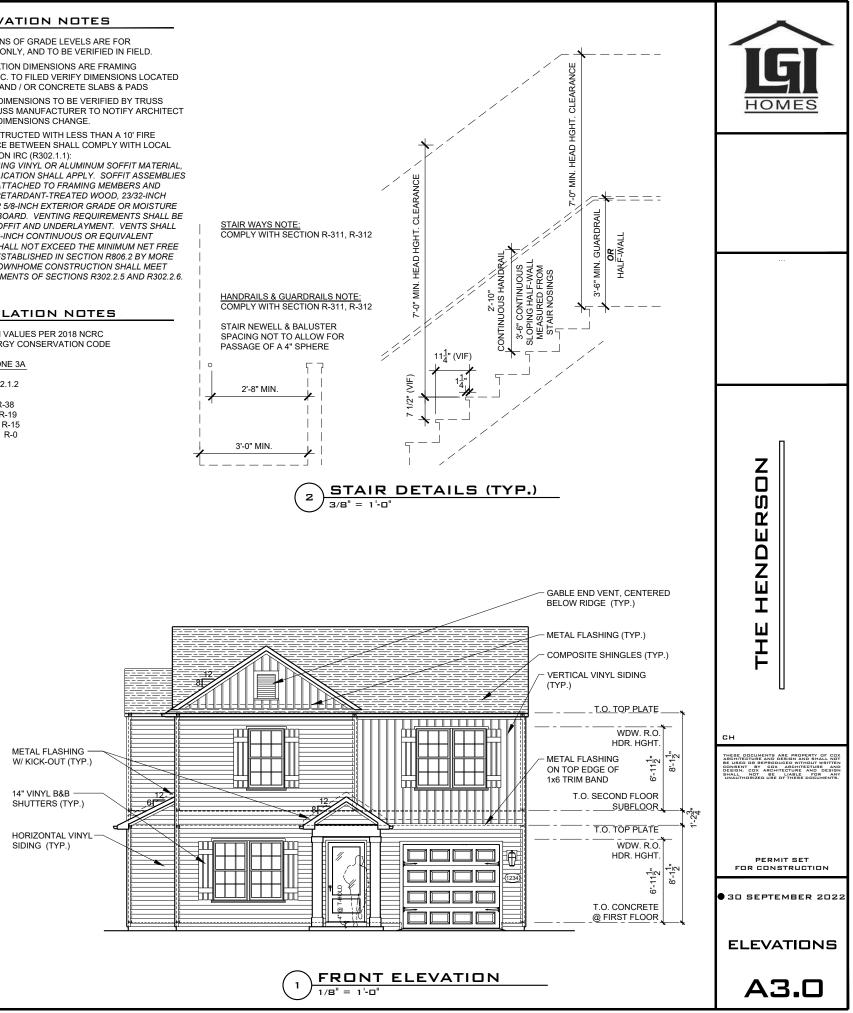
#### INSULATION NOTES

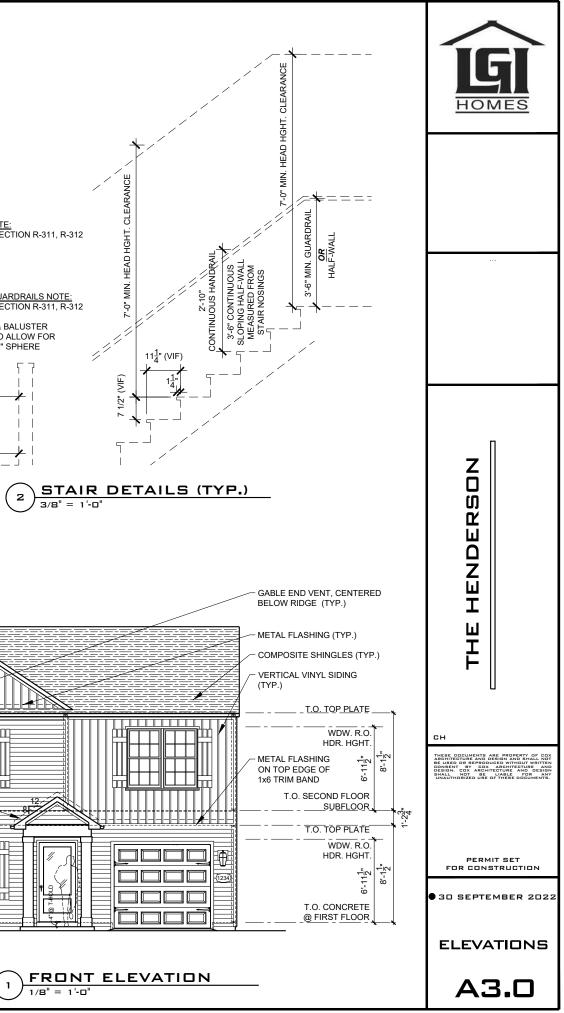
**INSULATION VALUES PER 2018 NCRC** CH. 11 ENERGY CONSERVATION CODE

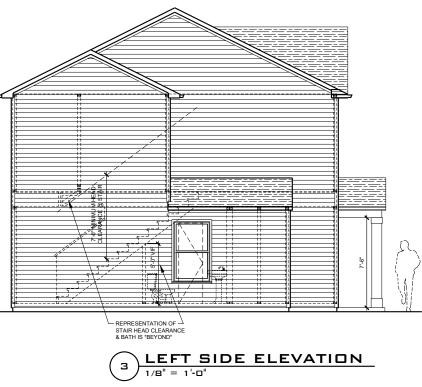
#### CLIMATE ZONE 3A

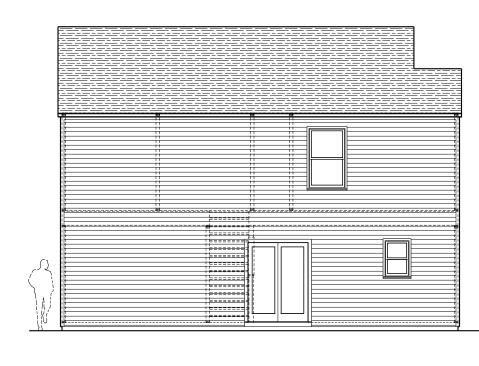
TABLE N1	102.1.2
CEILING:	R-38
FLOOR:	R-19
WALL:	R-15
SLAB:	R-0







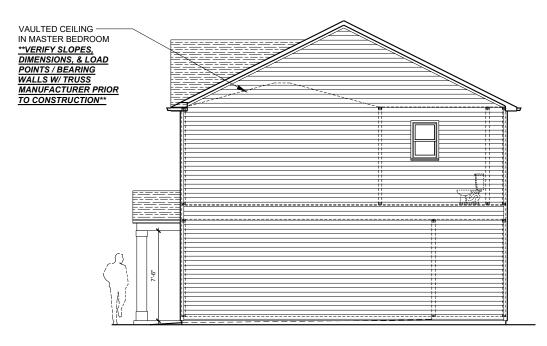




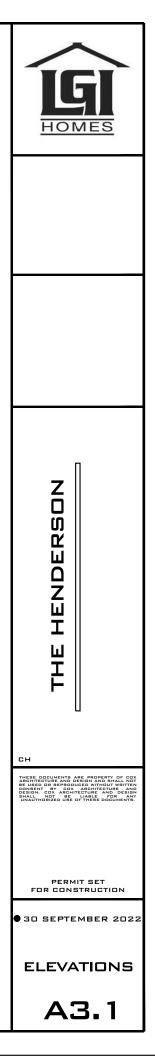
z

1/8" = 1'-0"

REAR ELEVATION

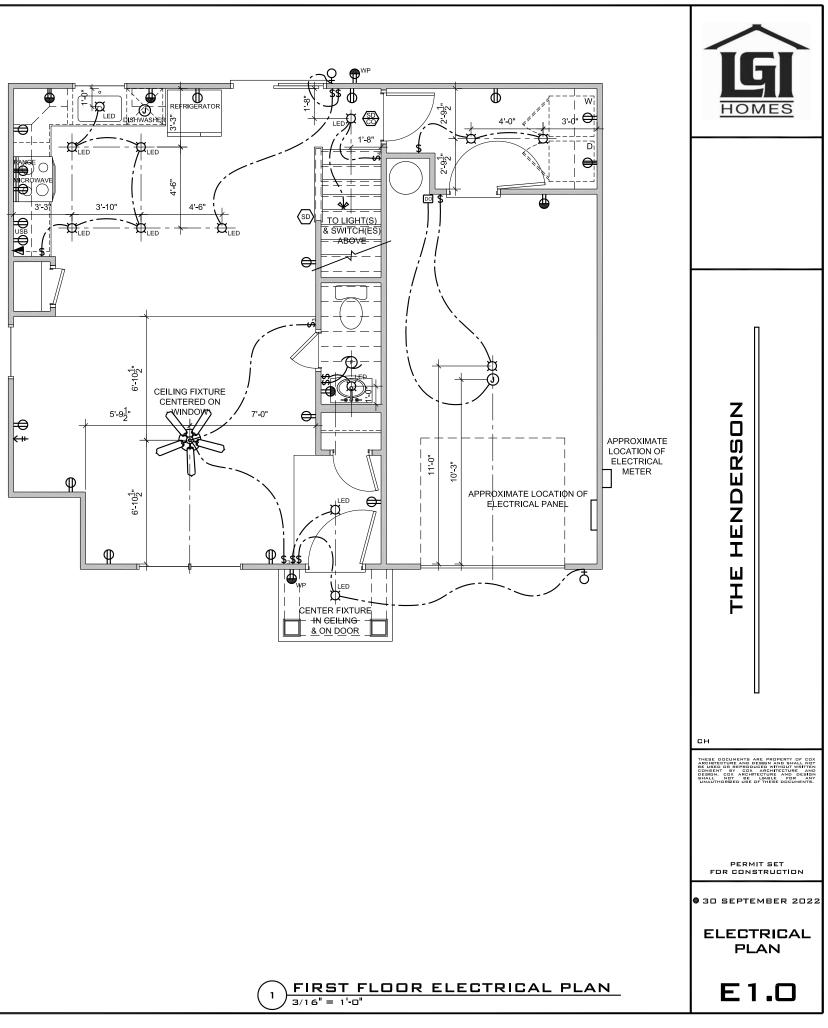






### ELECTRICAL LEGEND

Ð	120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	<b>⊕</b>	SMOKE/CARBON MONOXIDE DETECTOR
-	G.F.I. 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	₽₽₽	DOOR BELL DOOR BELL CHIME
€	WEATHER PROOF GFI 120 OUTLET	Ø	DOOR BELL TRANSFORMER
W		\$	WALL SWITCH, 48" A.F.F. TO CENTER
•	240 OUTLET. COORDINATE EXACT LOCATION WITH EQUIPMENT SPECIFICATIONS	\$°	DIMMER SWITCH, 48" A.F.F. TO CENTER
-	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.	₽₄	4 WAY SWITCH, 48" A.F.F. TO CENTER
₩	TO CENTER	<b>\$</b> 3	3 WAY STACKED SWITCH
-OSB	USB OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	-	PHONE, 18" A.F.F. TO CENTER, 'W' INDICATES WALL MOUNTED @ 48" A.F.F.
۲	FLOOR 120 OUTLET (FLUSH) (TBD IN FIELD W/ OWNER)		DATA, 18" A.F.F. TO CENTER, 'W' INDICATES WALL MOUNTED @ 48" A.F.F.
ົ	JUNCTION BOX	_++→	CABLE
ŏ	CEILING LIGHT FIXTURE (LED)		FLUORESCENT LIGHT FIXTURE
+Ò	WALL LIGHT FIXTURE		ZENON UNDER CABINET LIGHT TO BE MTD. TO
O	4" RECESSED LIGHT FIXTURE		BOTTOM OF WALL CAB. NEAR FRONT EDGE
$\bigcirc$	4" RECESSED DAMP LOCATION		PLUG MOLD TO BE MTD. TO BOTTOM OF WALL CAB. NEAR WALL
_	EIGHT HATORE	<b></b>	LED TAPE LIGHT
O	4" RECESSED EYEBALL FIXTURE	DO	DOOR OPENER
F.	FAN/LIGHT RECESSED FIXTURE		
Ø	FAN/LIGHT RECESSED DAMP	EP	ELECTRICAL PANEL
Ø	LOCATION FIXTURE	EM	ELECTRICAL METER
X		TWH	TANKLESS WATER HEATER
Ų		<b>+</b> HB	HOSE BIBB
ÞŶ.	FLOOD LIGHT	+G	GAS CONNECTION
Ō	THERMOSTAT	+GSO	GAS SHUT-OFF



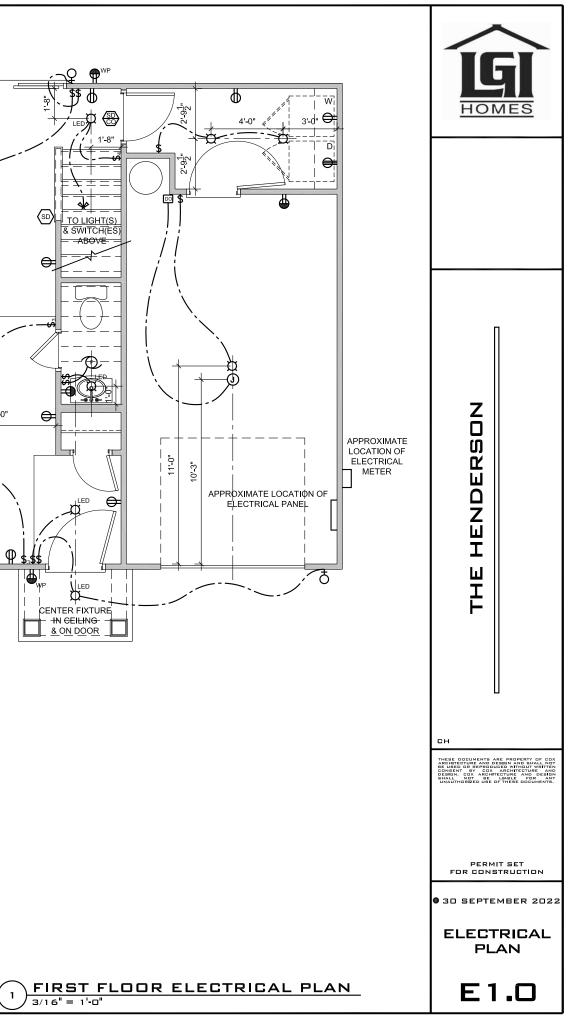
### ELECTRICAL NOTES

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

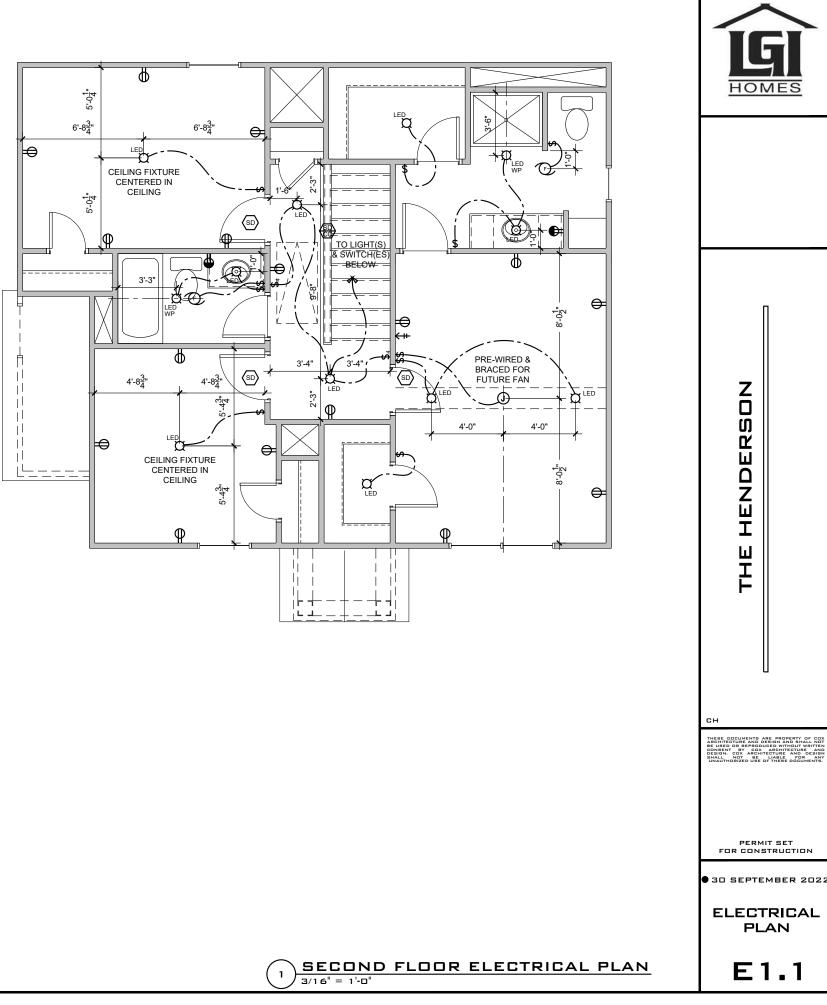
ELECTRICAL PANEL / METER

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



### ELECTRICAL LEGEND

€	120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	•	SMOKE/CARBON MONOXIDE DETECTOR
-9	G.F.I. 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	T	DOOR BELL DOOR BELL CHIME
	WEATHER PROOF GFI 120 OUTLET	σ	DOOR BELL TRANSFORMER
€	240 OUTLET. COORDINATE EXACT	\$	WALL SWITCH, 48" A.F.F. TO CENTER
_	LOCATION WITH EQUIPMENT SPECIFICATIONS	\$°	DIMMER SWITCH, 48" A.F.F. TO CENTER
-	1/2 SWITCHED 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS	<b>\$</b> ₃	3 WAY SWITCH, 48" A.F.F. TO CENTER
-#	120 QUADRAPLEX OUTLET, 18" A.F.F.	₽₄	4 WAY SWITCH, 48" A.F.F. TO CENTER
Ā		<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" INDICATES WALL MOUNTED @ 48" A.F.F.
۲	FLOOR 120 OUTLET (FLUSH) (TBD IN FIELD W/ OWNER)	◄	DATA, 18" A.F.F. TO CENTER, 'W' INDICATES WALL MOUNTED @ 48" A.F.F.
J	JUNCTION BOX	++→	CABLE
¢	CEILING LIGHT FIXTURE (LED)		FLUORESCENT LIGHT FIXTURE
÷Ò	WALL LIGHT FIXTURE		ZENON UNDER CABINET LIGHT TO BE MTD. TO
Ο	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
	4" RECESSED EYEBALL FIXTURE	<b>~~~</b>	LED TAPE LIGHT
		DO	DOOR OPENER
FL	FAN/LIGHT RECESSED FIXTURE	EP	ELECTRICAL PANEL
Ø	FAN/LIGHT RECESSED DAMP LOCATION FIXTURE	EM	ELECTRICAL METER
X	CEILING FAN (*PROVIDE BLOCKING)	TWH	TANKLESS WATER HEATER
T	,	<b>+</b> нв	HOSE BIBB
2	FLOOD LIGHT	<b>+</b> G	GAS CONNECTION
T	THERMOSTAT	+GSO	GAS SHUT-OFF



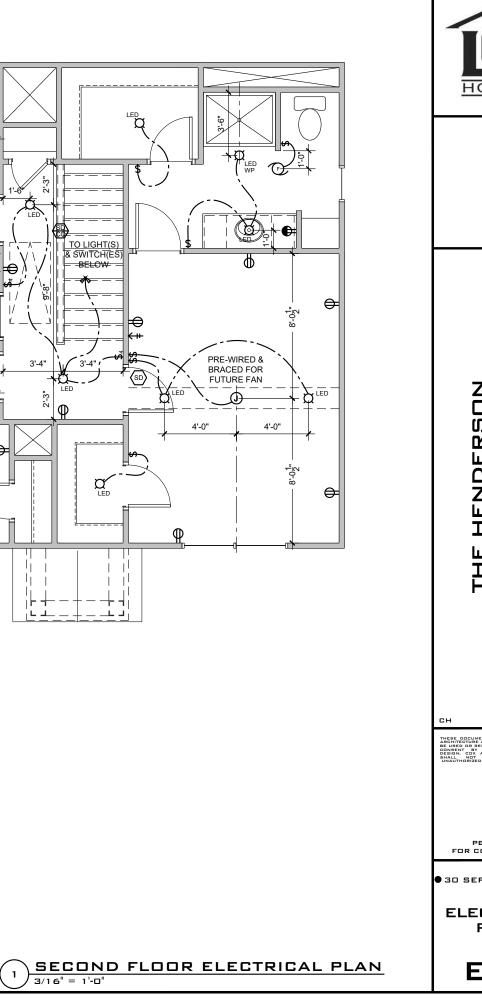
### ELECTRICAL NOTES

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.



# DESIGN SPECIFICATIONS:

Construction Type: Commerical Residential 🛛

Applicable Building Codes:

- 2018 North Carolina Residential Building Code with All Local Amendments
- ASCE 1-10: Minimum Design Loads for Buildings and Other Structures

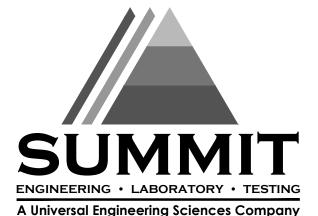
#### Desid

gn L	oads:					
1.			Loads			
	1.1.					
	1.2.					
2	Poof		d Loads			. 60 151
۷.	2.1					10 PSF
	2.2.					
3.	Snow					
	3.1.	Impo	ortance Facto	or		1.Ø
4.	Floor I					
	4.2.					
	4.3.					
5			d Loads	9e		. 90 F 9F
ν.	5.1					10 PSF
	5.2.					
	5.3.	Floc	or Truss			. 15 PSF
6.	Ultimat				gust)	
	6.1.	Ехр	0sure		-	В
	6.2.					. 1.Ø
	6.3.		d Base Shear	•		
			3.1. Vx = 3.2. Vy =			
٦	Compo		t and Claddi	na (in PSF)		
ME	IAN RO	OF	UP TO 30'	30'1"-35'	35'1"-40'	40' "-45'
	HT. ZONE 1		16.7,-18.0			
	ZONE 1 ZONE 2		16.1,-10.0 16.7,-21.0	17.5,-18.9 17.5,-22.1	18.2,-19.6 18.2,-22.9	18.7,-20.2 18.7,-23.5
	ZONE 3		16.T,-21.Ø	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	2Ø.4,-21.3
	ZONE 5	1	18.2,-24.Ø	19.2,-25.2	19.9,-26.1	2Ø.4,-26.9
~	<i>~ · ·</i>					
8.	Seismi 8.1.	-	Class			
	0.1. 8.2.					
	8.3.					
8.3. Importance Factor						
8.5. Spectral Response Acceleration						
8.5.1. Sms = %g						
8.5.2. Sml = %g						
8.6. Seismic Base Shear						
861. VX =						
8.6.2.Vy = 8.7. Basic Structural System (check one)						
	<ul> <li>Basic Structural System (Crieck One)</li> <li>⊠ Bearing Wall</li> </ul>					
	Building Frame					

- Moment Frame
- Dual w/ Special Moment Frame
- Dual w/ Intermediate R/C or Special Steel
- 🗌 inverted Pendulum

8.8. Arch/Mech Components Anchored ..... .. No

- 8.9. Lateral Design Control: Seismic 🗌 Wind 🖂
- 9. Assumed Soil Bearing Capacity ...... . 2000bsf



STRUCTURAL PLANS PREPARED FOR:

# HENDERSON RH

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.

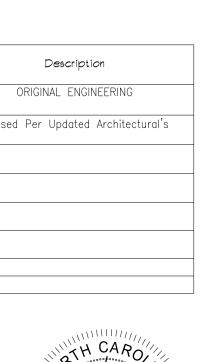
#### PLAN ABBREVIATIONS:

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	ТJ	TRIPLE JOIST
NTS	NOT TO SCALE	16P	TRIPLE STUD POCKET
OC	ON CENTER	TYP	TYPICAL
P6F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WW⊨	WELDED WIRE FABRIC

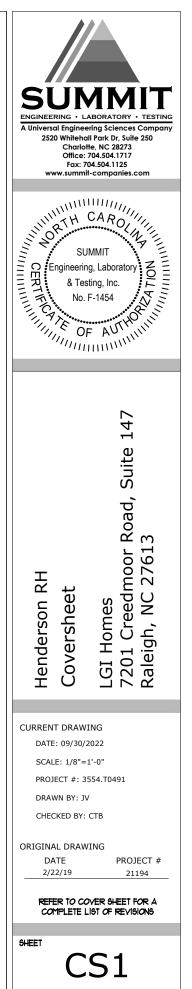
Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by LGI HOMES. Subsequent plan revisions 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.

Sheet No.	Description
CSI	Cover Sheet, Specifications, Revisions
C52	Specifications Continued
S1.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
SI.Øc	Crawl Space Foundation
S1.Ø.4b	4-Sides Brick Crawl Space Foundation
SI.Øb	Basement Foundation
S2.Ø	Basement Framing Plan
53.Ø	First Floor Framing Plan
54.Ø	Second Floor Framing Plan
55.Ø	Roof Framing Plan
56.Ø	Basement Bracing Plan
ST.Ø	First Floor Bracing Plan
58.0	Second Floor Bracing Plan

Revision No.	Date	Project No.	
0	1.18.22		
1	9.30.22		Revise
L		1	







#### 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 4 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 occur
- 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.

#### FOUNDATIONS:

- 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 dru densitu
- 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

- 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.
- 3 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 DI.I. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above standards.

#### CONCRETE:

- 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 2. containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- 3 Application of fibermesh per cubic yard of concrete shall equal a minimum of Ø.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.

#### WOOD FRAMING:

- 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 Ec = 100 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 B182.1-1981. Lead 5 holes for lag screws shall be in accordance with NDS specifications
- All beams shall have full bearing on supporting framing members 6 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.
- 9 Multi-ply beams shall have each ply attached with (3) lod nails @ 24" 0'C
- 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.
- 2 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 bibing, and architectural fixtures attached to the trusses.
- 3 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.
- Any 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:

- ΔPΔ
- Building Code.
- recommended in accordance with the APA.

# STRUCTURAL FIBERBOARD PANELS:

- 2 mark of the AFA.
- information.
  - recommended in accordance with the AFA.

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.

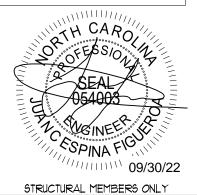
Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the 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

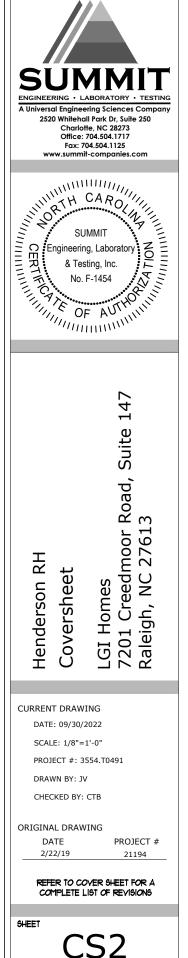
Wood floor sheathing shall be APA rated sheathing exposure I or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have 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

Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards. All structurally required fiberboard sheathing shall bear the

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

Sheathing shall have a 1/8" gap at panel ends and edges are





#### FOUNDATION NOTES

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE W CHAPTER 4 OF THE 2016 NORTH CAROLINA RESIDENTIAL BUILDING CODE W ALL LOCAL AMENDMENTS. STRUCTURAL CONCRETE TO BE F. = 3000 PRI. NEPERARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 38 POOTINGS TO BE FLACED ON INDIGINIZED EARTH, BEARING A MINIMUM OF IV BELOUI ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BENDROTEMENT CHIEFUL
- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PS: CONTRACTOR 15 SOLELY RESPONSIBLE FOR VERIFING THE SUITABILITY OF THE STIE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. FOOTINGS AD PIERS SHALL BE CONTINED ADDRET THEIR RESPECTIVE ELEMENTS. FROUTE: 2" INNIMULY BOOTING PROJECTION FROM THE FACE OF MASOWRY. MAXIMUL DEPTH OF WARALLAGED FILL AGAINST MASORYRY WALLS TO BE AS SPECIFIED IN SECTION RAVAU OF THE 2016 NORTH CAROUNA RESIDENTIAL FUILIDING CODE
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- 9,

- SPECIFIED IN SECTION RAPAIL OF THE 20% NORTH CAROLINA RESIDENTIAL BUILDING CODE. PILLIDING CODE. PROVIDE FORMATION MURRENCOPING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET 45 RECAIRED BY SITE CONDITIONS. PROVIDED RERIFETER NEULATION FOR ALL FOUNDATIONS FER 20% NORTH CAROLINA RESIDENTIAL BUILDING CODE. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VENERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VENERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VENERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VENERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VENERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VORERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VORERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VORERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPODATE BRICK VORERS. CORREL FONDATION WILL AS RECUIRED TO ACCOMPONENT INTO MASONRY OR CONCREL FINITUDY (2) ANCOME BOLTS FER FLATE SECTION AND (1) LOCATED NOT HORE THAN D' FROM THE CORREL ANCHOR BOLTS SHALL BE LOCATED IN THE CONTREL THEO OTHE FLATE.

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
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EE = EACH END	TR = TRIPLE RAFTER
TJ = TRIPLE JOIST	OC = ON CENTER
CL = CENTER LINE	PL = POINT LOAD

14. ALL PIERS TO BE 16"X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY

- H. ALL FIESD OF 18 XIB THROWS AND ALL FILIPSIEND OF 25 XIB THROWS TYPICAL (INO)
  B. WALL FROM THE CONTINUOUS CONCEPTS, SIZES FER STRUCTURAL PLAN (B. AFONDATION EXCAVATION OBSERVATION SHOLD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL BUSINEER, OR HIS GUILA FIED REPRESENTATIVE (SOLATED AREAS OF YIELDING MATERIALS ADVICE OPTIMILATE VERYASIVE SOLATED AREAS OF YIELDING MATERIALS ADVICES OPTIMILATE VERYASIVE SOLATED AREAS OF YIELDING MATERIALS ADVICES OPTIMILATE VERYASIVE NTATIVE F CONSTRUCTION REPRESENTATION REPORTATIONS AT THE INFO OF CONSTRUCTION STIMIT REMARKING, LABORATORY I TESTING, IC: MIST BE REVOLUED THE OPERATION TO REVEN THE ROOTING DESIGN FROM TO CONCRETE FLACEMENT. ALL ROOTINGS I SLASS ARE TO BEAR ON UNDISTURBED SOIL OR \$55 CONTRACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL
LOCATIONS AND ANY REQUIRED HOLD-DOWNS.
ADDITIONAL INFORMATION PER SECTION R602.08
AND FIGURE R602.10.1 OF THE 2015 IRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

NOTE: A 4° CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN \$LAB IS NSTALLED ON WELL-DRANED OR SAND-GRAVE INKTURE SOILS CLASSIFIED AS GROUP I PER TABLE R406J

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS UNIT UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC.

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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>LGI HOMES</u> COMPLETED/REVISED ON <u>Ø3/30/22</u>. 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 SUMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

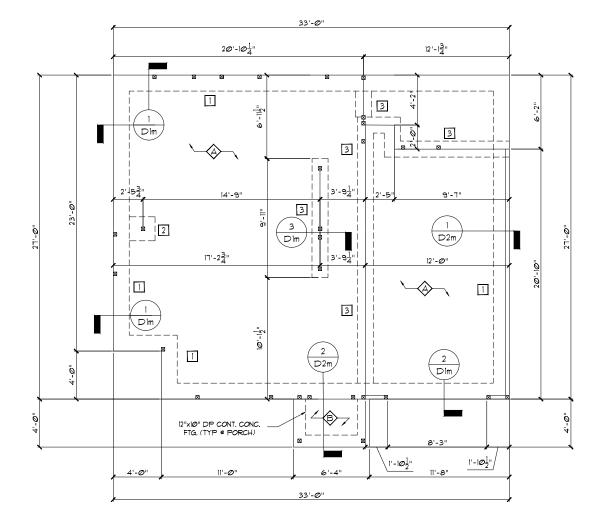
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

WALL ANCHOR OPTION SCHEDULE FOR MONO S MIN. CONC. EMBEDMENT INTERIOR EX ANCHORS SPACING 1/2"¢ A307 BOLTS 7" 6'-0" YES w/ STD. 90° BEND 1/2" # HILTI KWIK BOLT, SST WEDGE-ALL, OR EQUIVALENT WEDGE ANCHOR 1/2" # THREADED ROD w/ SST SET 4" 6'-0" YES 4" 6'-0" YES EPOXY

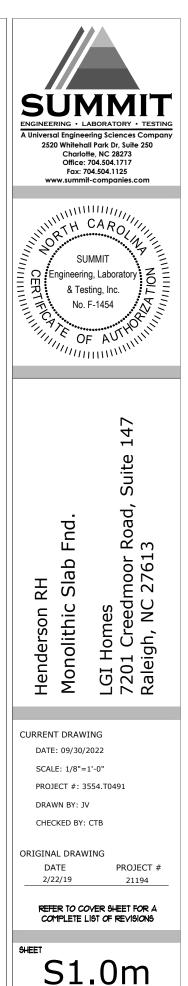
NOTE: 1. NOTE: 1. NOTALL ALL ANCHORS I2" MAX. FROM ALL BOTTOM WALL PLATE ENDS JOINTS. 2. MINNIM CONCRETE EMBEDMENT AND SPACINGS SHOWN ARE TYPICAL. DIFFERENT EMBEDMENTS OR SPACINGS ARE EXPLICITLY CALLED FOR THE PLAN OR DETAILS, DEFER TO THOSE. 3. EXPANSION ANCHORS MAY BE INSTALLED ONLY AS ALLOWED PER MANUFACTURE SPECIFICATIONS.



ALL ELEVATIONS

6LAB	FC	FOUNDATION SCHEDULE			
TERIOR TAG		DESCRIPTION	REBAR REQ'D		
WALL	11	16"W x 20"D MONO	(2) #3 CONT.		
YES	2	24"SQ x 10"D	NONE		
YES <sup>3</sup>	3	16"W x 10"D LUG (13.5"D @ GARAGE INTERIOR)	(2) #3 CONT.		
	4	30"SQ × 10"D	NONE		
	5	36"SQ × 12"D	(5) #4 E.W.		
YES	6	16"SQ x10"D	NONE		
	7	PLAN SPECIFIC NONE			
1054 4L. IF	\$	4" THICK POURED CONCRETE SLAB w/ FIBER MESH ON 6 MIL POLY ON COMPACTED SOIL			
OR ON	\$	4" THICK POURED CONCRETE SLAB ON COMPACTED SOIL			
	B.D. = BOTH	<u>BBREVIATIONS</u> : W = WIDTH, D = DEPTH, SQ = SQUARE, B.D. = BOTH DIRECTIONS, CONT. = CONTINUOUS, MONO = MONOLITHIC SLAB FOOTING			





<u>4L</u>	STRUCTURAL	NOT	E5:			

GENER/

- EXERCI-DISACLERAL INVELTE CONSTRUCTION SHALL CORFORM TO 2008 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS. CONTRACTOR SHALL VERIFY ALL DIFENSIONS CONTRACTOR SHALL COMPLY WITH THE CONTRUCTOR SHALL VERIFY ALL DIFENSIONS CONTRACTOR SHALL COMPLY WITH THE CONTRUCTOR IS RESPONSIBLE FOR REAVING FEMOLARTY BRACING REGULIRED TO RESID IN THE DEVIATIONS FRACTI THIS PLAN. CONTRACTOR SESSION SHELL FOR REAVING TETPORARY BRACING REGULIRED TO RESID THE DEVIATIONS FRACTI THIS PLAN. PROMERTIES USED IN THE DEVIA PARA SHOULD BENECTION. PROMERTIES USED IN THE DEVIA PARA SHOULD BENECTION. MICROLLAM (LVL.) FS. = 2600 FSI, F. = 250, FSI, E. = 150, KOP FSI THERESTRALD (LSL.) FS. = 2300 FSI, FS. = 250, KOP FSI PARALLAM (FSL.) FS. = 2300 FSI, FS. = 250, KOP FSI ALL WOOD FUENERS SHALL BE 2 STP (INC). ALL BEAMS SHALL BE SENTED WITH A (2) 244 STP STUD COLUMN AT EACH END NLESS NOTED OTHERWISE.

- ALL EQUID SHALL BE SUFFORIED WITH A 127.44 Y 3115 SILD COLUMN AT EACH FOID INLESS ONED OTHERWISE CRADE 60 BARS CONFORMUM AT EACH ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMUM TO ASTM 465 AND SHALL HAVE A TINITIMU COVER OF 3'. FONDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 2018 NORTH CARDINA RESIDENTIAL COST SECTION RAGILS (MINIMU 12' DIA BOLTS SPACED AT 6'-0' ON CENTER WITH A 1' MINIMU PHEDMENT INTO MASONEY OR CONCRETE MINIMU (1) ANCHOR BOLTS FER LATE SECTION AND (1) LOCATED NOT MORE THAN 10' FROM THE CORRER ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THRO OF THE FLORER, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THRO OF THE FLORER, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THRO OF THE FLORER. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THRO OF THE FLORE.

- PERPENDICULAR TO RAFTERS, FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED iØ.
- FLICH BEAMS, 4-PLT IVIS AND 3-PLT SIDE LOADED IVIS SHALL BE BOLIED TOGETHER WIT IVIZ 'DIA THAL BOLTS SPACED AT 44' CC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS FER DETAIL IVIT, MIN. EDGE DISTANCE SHALL BE 2' ADD (2) BOLTS SHALL BE LOATED INIMIMI" (FROM EACH BND OF THE BEAM ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STP 9, DROPPED. OR NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STP 9, DROPPED. OR NON-LOAD BEARING HEADERS SHALL BE (2) FLAT 2x4 STP 9, DROPPED. (MLESS NOTED OTHERWISE) ABDREVATIONS.

- 12
- DJ = DOUBLE JOIST SJ = SINGLE JOIST

GT = GIRDER TRUSS	FT = FLOOR TRUSS
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WALL STUD SCHEDULE (10 FT HEIGHT)				
STUD SIZE		STUD SPA	CING (0,C,)	
	ROOF ONLY	ROOF # 1 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING
2x4	24"	16"	12"	24"

2x6 24" 24" 16" 24" NOTES: L BRACED WALLS STUDS SHALL BE A MAX. OF 16" OC. 2. STUDS SUPPORTS OFTICALL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" OC. 3. TWO STORY: WALLS SHALL BE RRAMED #" 2x4 STUDS = 12" OC. OR 2x5 STUDS = 16" OC. CALLOCAN RRAMED #" HORIZONTAL BLOCKINS = 0- 0" OC. VERTICALLY.

LINTEL SCHEDULE			
SIZE	OPENING SIZE		
L3x3x1/4"	LESS THAN 6'-Ø"		
L5x3x1/4"	6'-0" TO 10'-0"		
L5x3-1/2x5/16*	GREATER THAN 10'-0"		
L5x3-1/2x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS		
	6/ZE L3x3x//4" L5x3x//4" L5x3-1/2x5//6" L5x3-1/2x5//6"		

NOTES: L SECURE LINTEL TO HEADER W (2) 1/3" DIAMETER LAG SCREUS STACCERED AT 16" OC. (TYP FOR OPENINGS GREATER THAN 10"-0". 2. ALL HEADERS UNERE DRICK 15 PRESENT, TO BE () (UNO)

SHADED WALLS INDICATED LOAD BEARING WALLS

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

NOTE: 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 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.

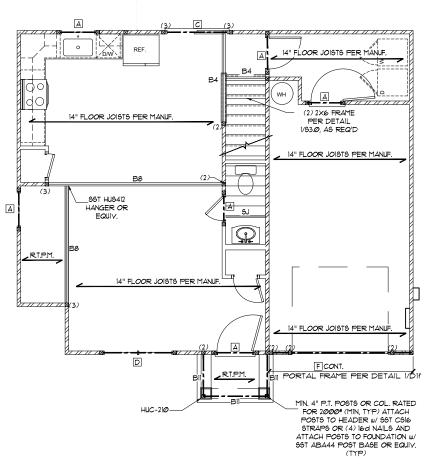
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STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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



ALL ELEVATIONS

E	BEAM SCHEDULE			
TAG	SIZE			
в	(1) 11-7/8" FLOOR JOIST OR FLOO			
B2	(2) 11-1/8" FLOOR JOIST OR FLOO			
B3	(1) 14" FLOOR JOIST OR FLOOR			
B4	(2) 14" FLOOR JOIST OR FLOOR			
B5	(1) 9-1/4" LSL/LVL			
B6	(2) 9-1/4" LSL/LVL			
BT	(1) 11-7/8" LSL/LVL			
B8	(2)   -1/8" LSL/LVL			
B9	(1) 14" L9L/LVL			
BIØ	(2) 14" LSL/LVL			
BII	(2) 2x1Ø			
SIZES MAY BE USED	N ON PLANS ARE MINIMUMS, LARGEI FOR EASE OF CONSTRUCTION E SET TOP FLUSH W/ FLOOR SYSTEM			



TRUSS
TRUSS
RUSS
RUSS

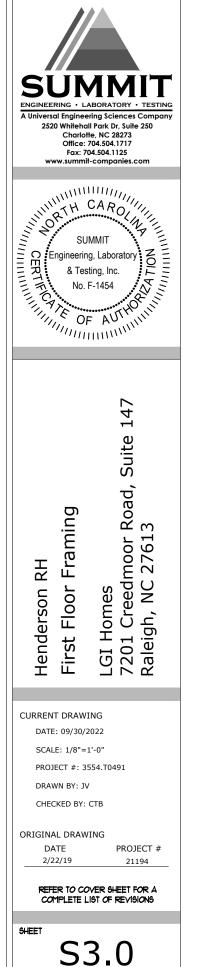
ER BEAM

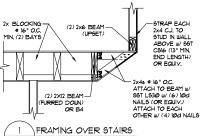
M (UNO)

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END)		
А	(2) 2x6	(I)		
в	(2) 2x8	(2)		
с	(2) 2x1Ø	(2)		
D	(2) 2x12	(2)		
E	(2) 9-1/4" LGL/LVL	(3)		
F	(2) 11-7/8" LSL/LVL	(3)		
G	(3) 2x8	(2)		
н	(3) 2x1Ø	(2)		
I	(3) 2xl2	(2)		

NOTES: L HEADER 9/259 94/2011 ON PLANG ARE MINIMUMG, GREATER HEADER 9/259 MAY BE USED FOR EASE OF CONSTRUCTION, 2. ALL HEADERS TO BE DROPPED (UNO.). 3. 910D COLUMNS MOTED ON PLAN OVERRIDE 910D COLUMNS LIGTED ABOVE (UNO.).

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







TAG	SIZE	JACKS (EACH END
A	(2) 2x6	(I)
в	(2) 2x8	(2)
с	(2) 2x1Ø	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL/LVL	(3)
F	(2)   -7/8" LSL/LVL	(3)
G	(3) 2x8	(2)
н	(3) 2x1Ø	(2)
I	(3) 2x12	(2)

I. HEADER SIZES SHOW ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. ALL HEADERS TO BE DROPPED (UN.O.). 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS

LISTED ABOVE (UN.O.).
-----------------------

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

WALL STUD SCHEDULE (10 FT HEIGHT)					
STUD SIZE	STUD SIZE STUD SPACING (O.C.)				
	ROOF ONLY	ROOF # I FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING	
2x4	24"	16"	12"	24"	
2x6	24" 24" 16" 24"				

NOTES: 1. BRACED WALLS STUDS SHALL BE A MAX. OF 16<sup>4</sup> O.C. 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16<sup>4</sup> O.C. 3. TWO STORT WALLS SHALL BE FRAMED W 2x4 STUDS = 16<sup>40</sup> O.C. OR X6 STUDS = 16<sup>40</sup> O.C. PATHED W HORIZONTAL BLOOKING = 6<sup>1</sup>-0<sup>40</sup> O.C. VERTICALLY.

BEAM SCHEDULE		
TAG	SIZE	
BI	(1) 11-7/8" 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) 14" FLOOR JOIST OR FLOOR TRUSS	
B5	(1) 9-1/4" LOL/LVL	
B6	(2) 9-1/4" LSL/LVL	
B1	(1) 11-1/8" LSL/LVL	
B8	(2) 11-1/8" L9L/LVL	
B9	(1) 14" LSL/LVL	
BIØ	(2) 14" LOL/LVL	
Bl	(2) 2x1Ø	
NOTES: L BEAM SIZES SHOWN ON PLANS ARE MINIMUMS, LARGER BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. BEAMS ARE TO BE SET TOP FLUSH W/FLOOR SYSTEM (UNO)		

SHADED WALLS INDICATED LOAD BEARING WALLS

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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

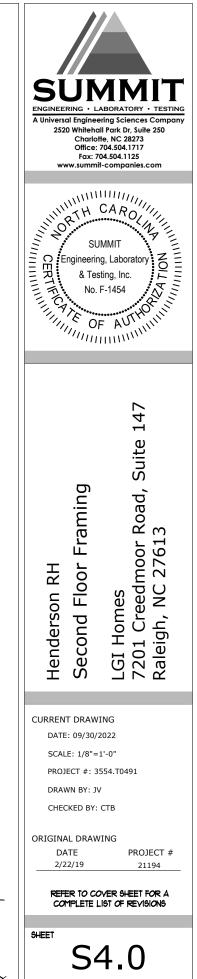
SECOND FLOOR FRAMING PLAN SCALE: 1/8"=1

TAG SIZE OPENING SIZE			
L3x3x1/4" LESS THAN 6'-Ø"			
0	L5x3x1/4"	6'-0" TO 10'-0"	
3	L5x3-1/2x5/16"	GREATER THAN 10'-0'	
L5x3-1/2x5/6" ALL ARCHED     ROLLED OR EQUIV. OPENINGS			
NOTES: 1. SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGERED AT 16" O.C. (TYP FOR OPENINGS GREATER THAN 10"-0"			

А // // // // // // // // // // // | || || || || || || || || ||  $\odot$  $\odot$ 111111 ROOF BELOW VAULTED CEILING SEE TRUSS M PACKAGE & PROFILES А С

ALL ELEVATIONS

21 11 11 11 11 11 11





REQUIRED BRACED WALL PANEL CONNECTIONS				
	MIN.	REQUIRED CONNECTION		
METHOD	MATERIAL	THICKNESS	@ PANEL EDGES	· INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS <sup>,</sup> @ 6" O.C.	6d COMMON NAILS* @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** # 1" O.C.	5d COOLER NAILS** @ 1" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS <sup>,</sup> @ 6" O.C.	6d COMMON NAILS* @ 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4
BASED ON 16" O.C. STUD SPACING OR EQUIVALENT PER TABLE R102.3.5				

#### BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- 2) WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF 130
- 3) BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.10.4.
- PEFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
   ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD
- MITHOUT ADDITIONAL ENGINEERING CALCULATIONS. MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL
   BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
   FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL
- HEATHABLE SURFACES INCLUDING INTLL AREAS BETUEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR
- 9) BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS. 10) A BRACED WALL PANEL SHALL BEGIN WITHIN 10 FEET FROM EACH END OF A BRACED
- THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20 FEET. ID.
- ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH IRC SECTION R60235.
   MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A
- BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FLORE REØ2109, BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN 14)
- ACCORDANCE WITH SECTION R602.008 (SEE DETAIL 1/D5/ FROM DETAIL PACKAGE). I5) BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6021082 AND FIGURES R602108(1)4(2)4(3).
- IGO CRIPTICE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00.11
   PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.06.4 (UNO)
- 18) ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS: 19)

GB = GYPSUM BOARD CS-XXX = CONT. SHEATHED PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL ENG = ENGINEERED SOLUTION ENG-PF = ENGINEERED PORTAL FRAME

# INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 AND FIGURE R602.10.1 OF THE 2015 IRC.

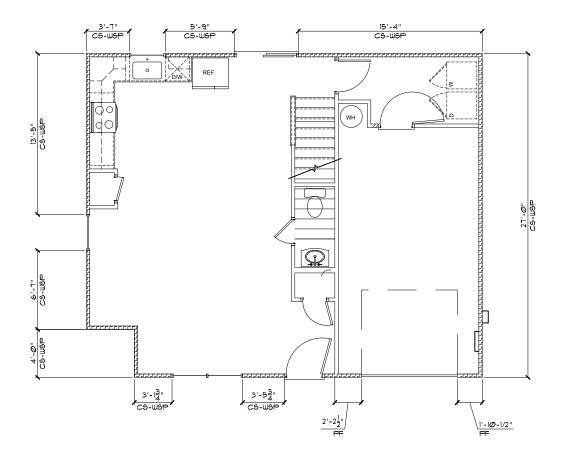
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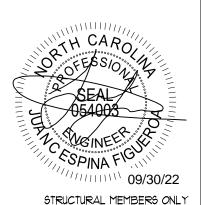
FIRST FLOOR BRACING PLAN SCALE: 1/8"=1



ALL ELEVATIONS

FIRST FI	FIRST FLOOR BRACING (FT)			
CONT	CONTINUOUS SHEATHING METHOD			
	REQUIRED	PROVIDED		
FRONT SIDE	9.8	12.8		
RIGHT SIDE	8.2	27.0		
REAR SIDE	9.8	24.6		
LEFT SIDE	8.2 24.0			







	REQUIRED B	RACED	WALL PANEL CON	NECTIONS
		MIN.	REQUIRED	CONNECTION
METHOD	MATERIAL	THICKNESS	@ PANEL EDGES	· INTERMEDIATE SUPPORTS
CS-WSP	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** @ 1" O.C.	5d COOLER NAILSיי @ ס" O.C.
WSP	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 R602.10.6.4	PER FIGURE R602.10.6.4
	"BASED ON 16" O.C. 9	STUD SPACIN	G "OR EQUIVALENT PER	TABLE R10235

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC
- RESIDENTIAL CODE. 2) WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF 130
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC 3) TABLE R602.0.4. ADEL ROOZION,
   APOLITECTURAL PLAN FOR DOOR/UNDOW OPENING SIZES
- ALL BRACED WALL PARELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD
- THEIT FOR ISOLATED FAREL METHOD AND IN FEEL FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.05. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 12' GYRSWI BOARD (UNO). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL 8)
- SHEATHABLE SURFACES INCLUDING INFILL AREA BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR
- BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS. (0) A BRACED WALL PANEL SHALL BEGIN WITHIN 10 FEET FROM EACH END OF A BRACED
- WALL LINE.
   III) THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20 FEET.
   ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT
- LOADS SHALL COMPLY WITH IRC SECTION RE0235. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A
- 13)
- BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REØ2/09, BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REØ2/08 (SEE DETAIL VD5/ FROM DETAIL PACKAGE). 14)
- (b) BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.1082 AND FIGURES R602.108(1)4(2)4(3).
- 16) CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN
- ACCORDANCE WITH SECTION REØ2/10/1 11) PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6Ø2/06.4 (UNO) 18) ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS: GB = GYPSUM BOARD

CS-XXX = CONT. SHEATHED PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL ENG = ENGINEERED SOLUTION ENG-PF = ENGINEERED PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.0.8 AND FIGURE R602.10.1 OF THE 2015 IRC.

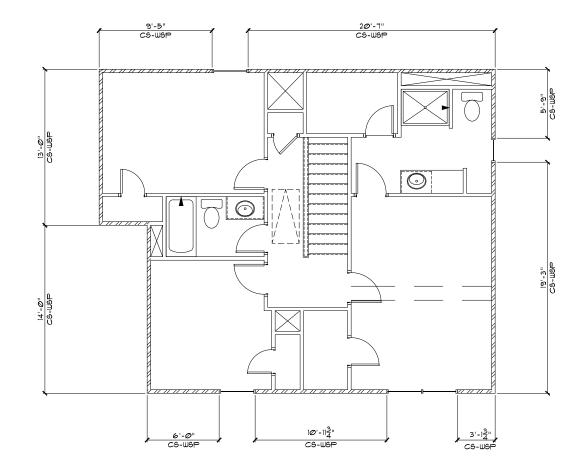
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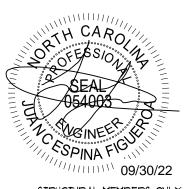
SECOND FLOOR BRACING PLAN SCALE: 1/8"=1

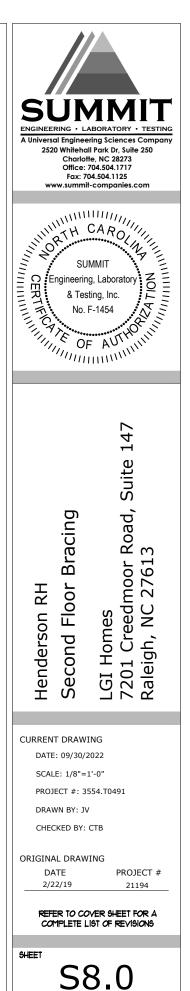


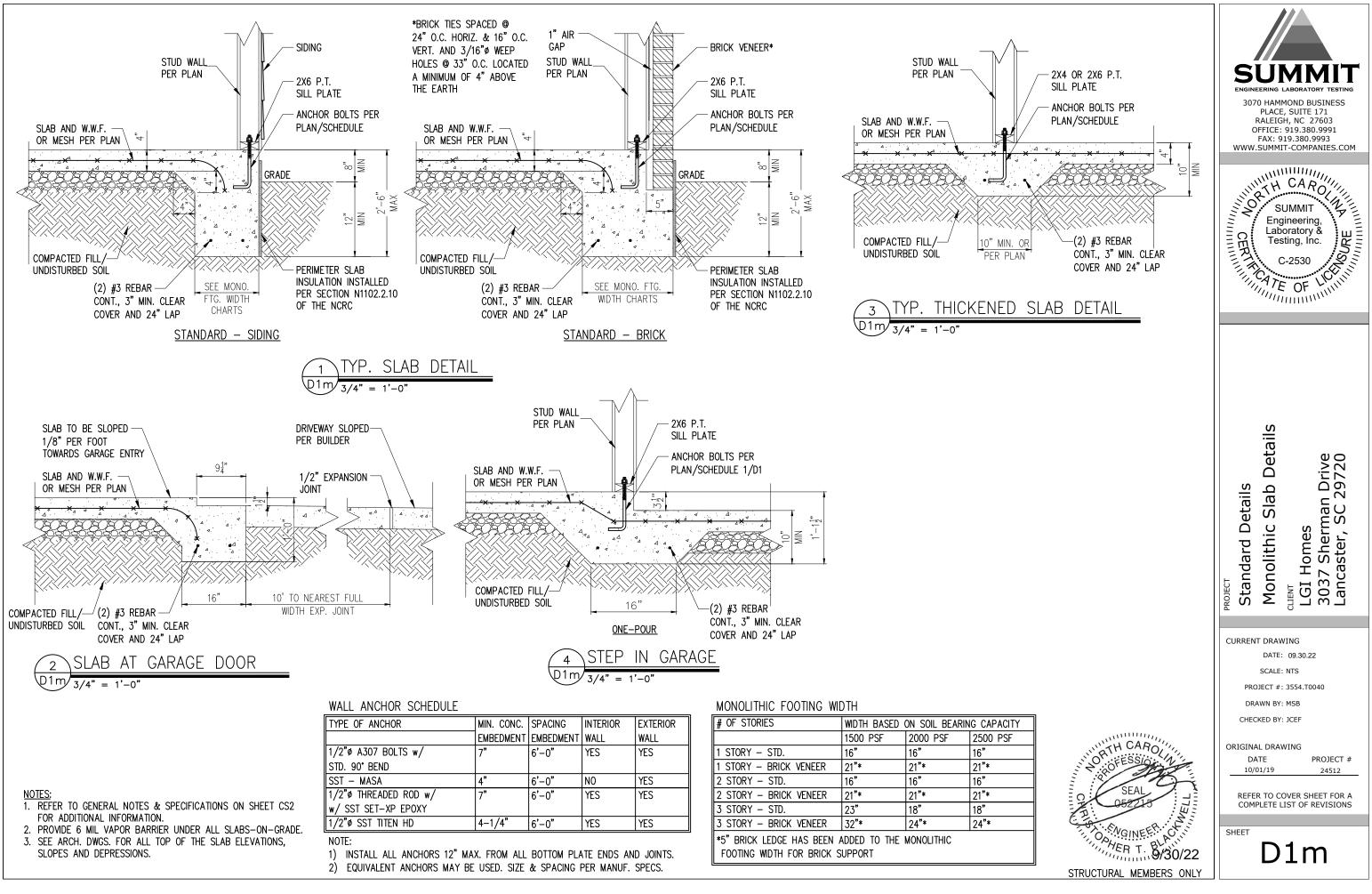
ALL ELEVATIONS

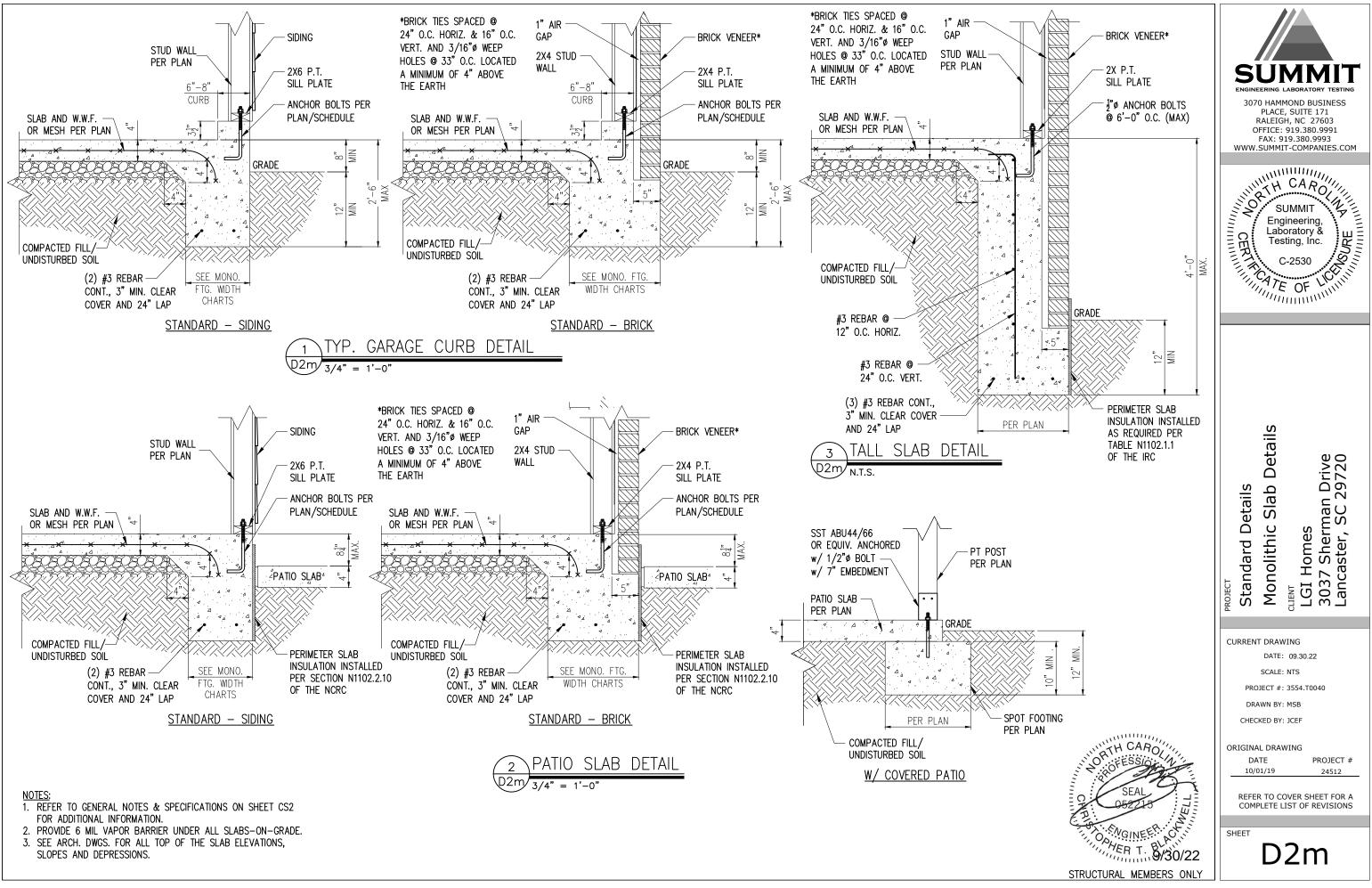
SECOND FLOOR BRACING (FT)			
CONTINUOUS SHEATHING METHOD			
	REQUIRED PROVIDED		
FRONT SIDE	4.3	20.1	
LEFT SIDE	3.5	27.0	
REAR SIDE	4.3	30.0	
RIGHT SIDE	3.5	25.0	

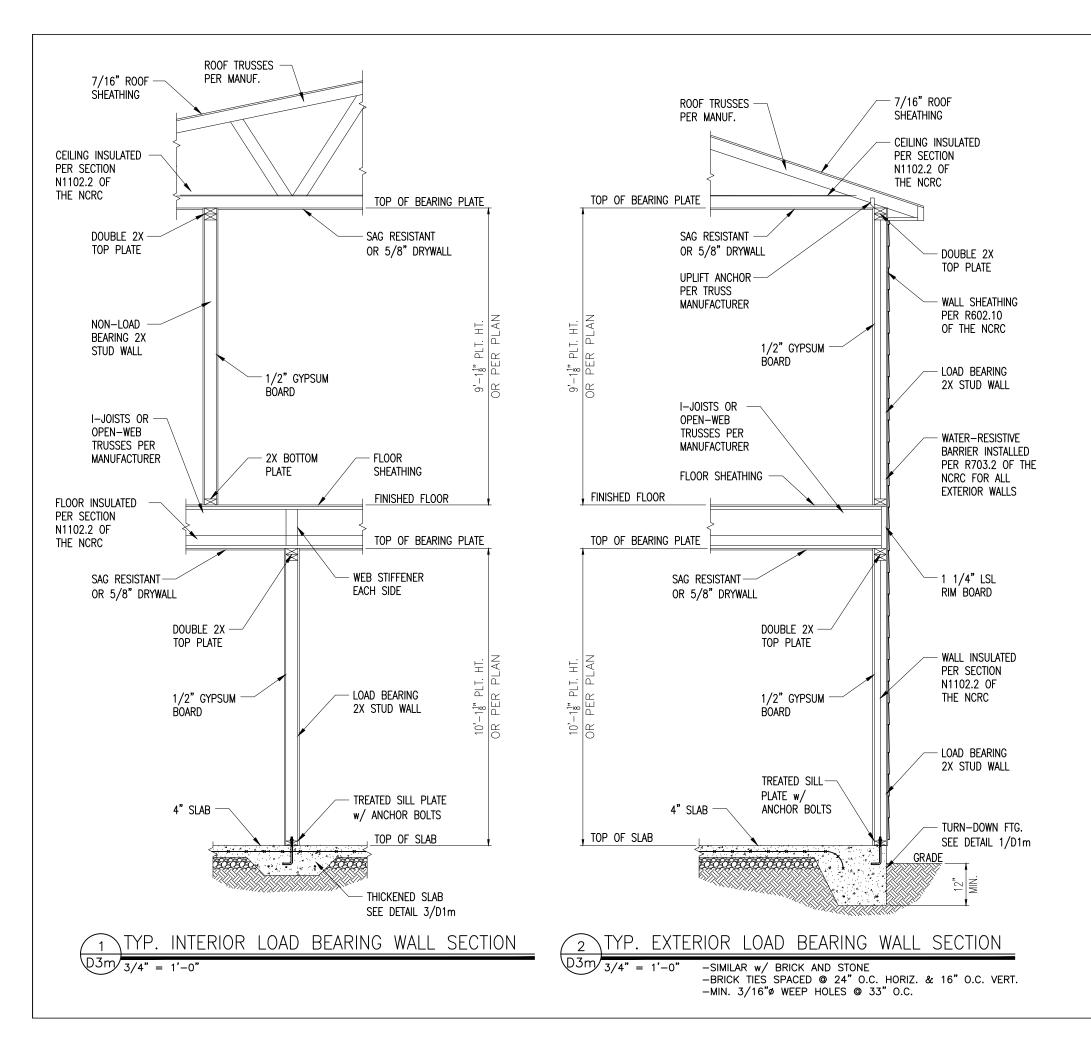


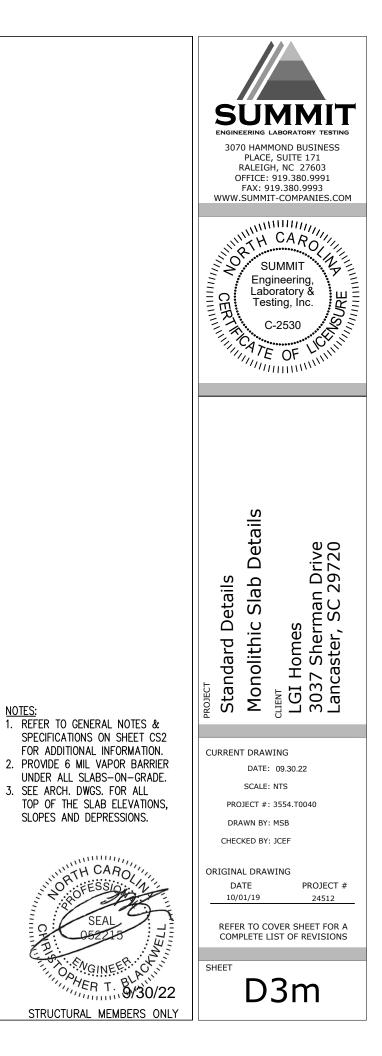


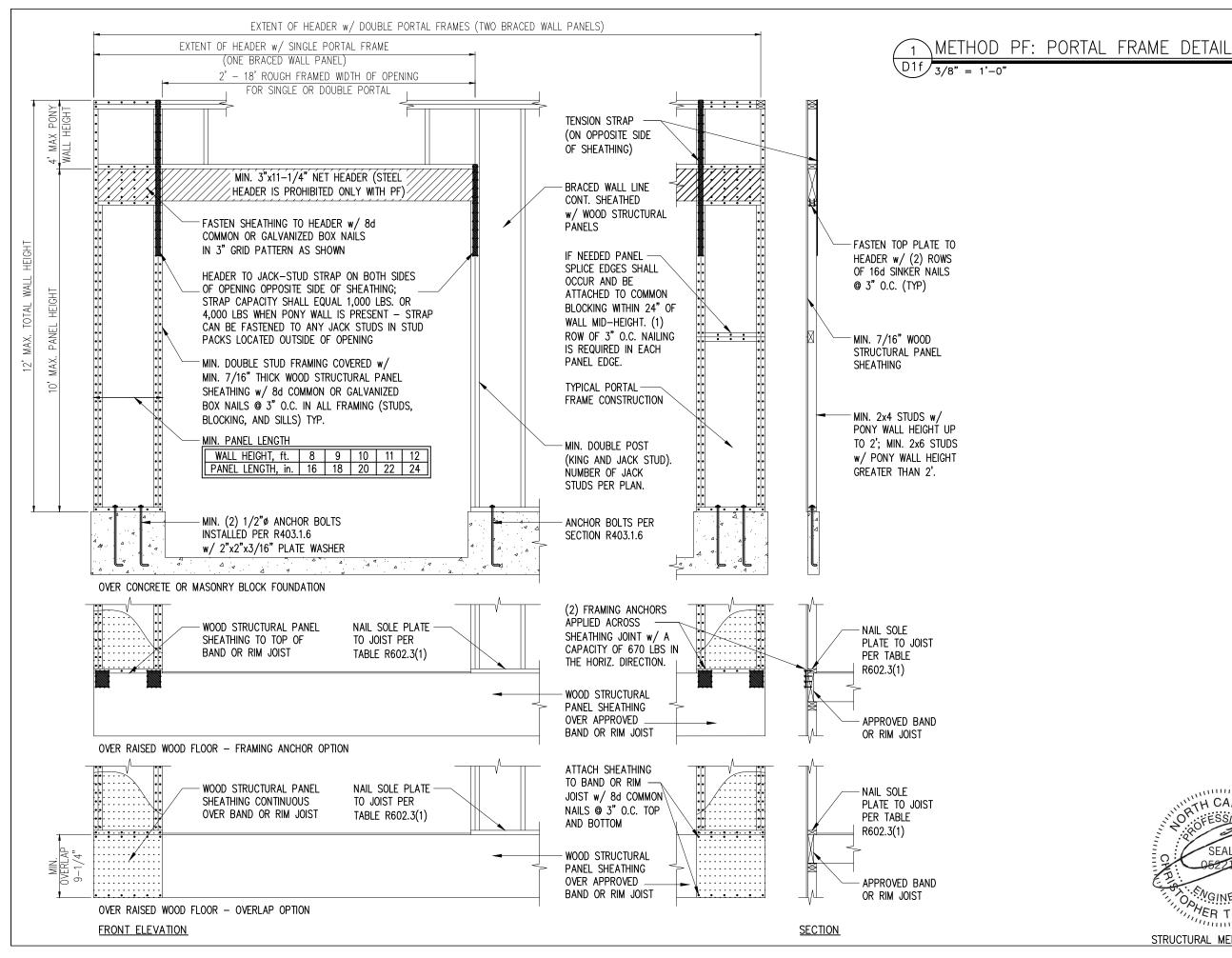


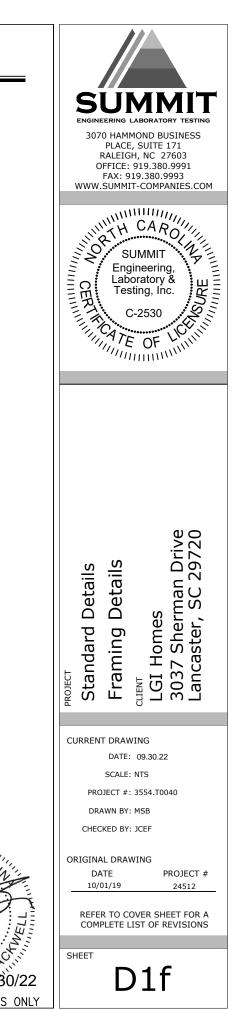


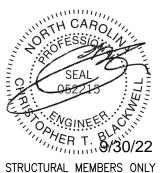


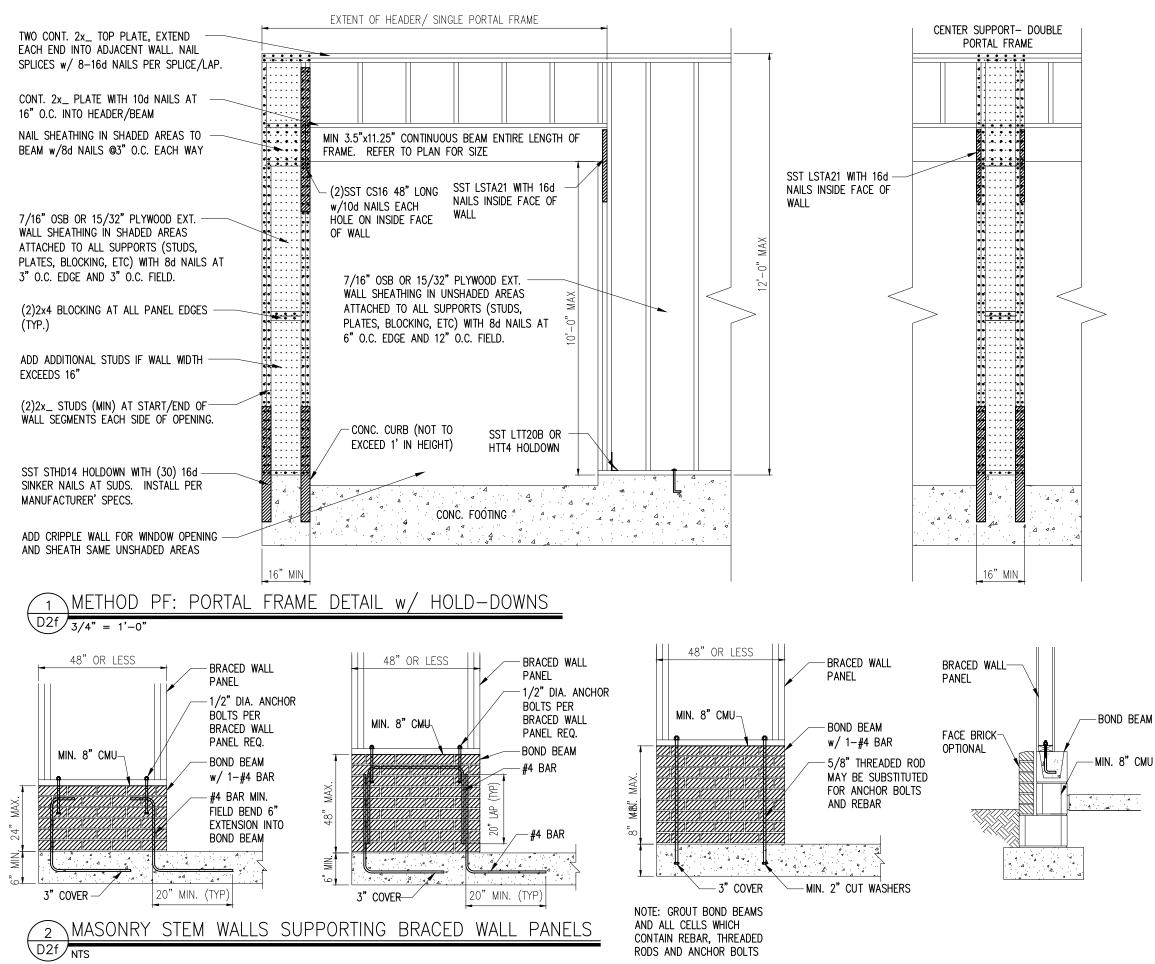


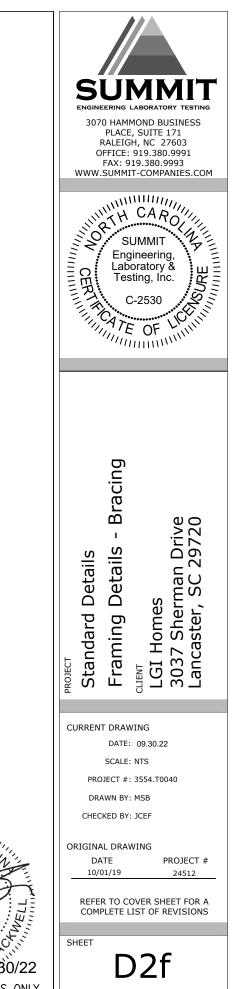




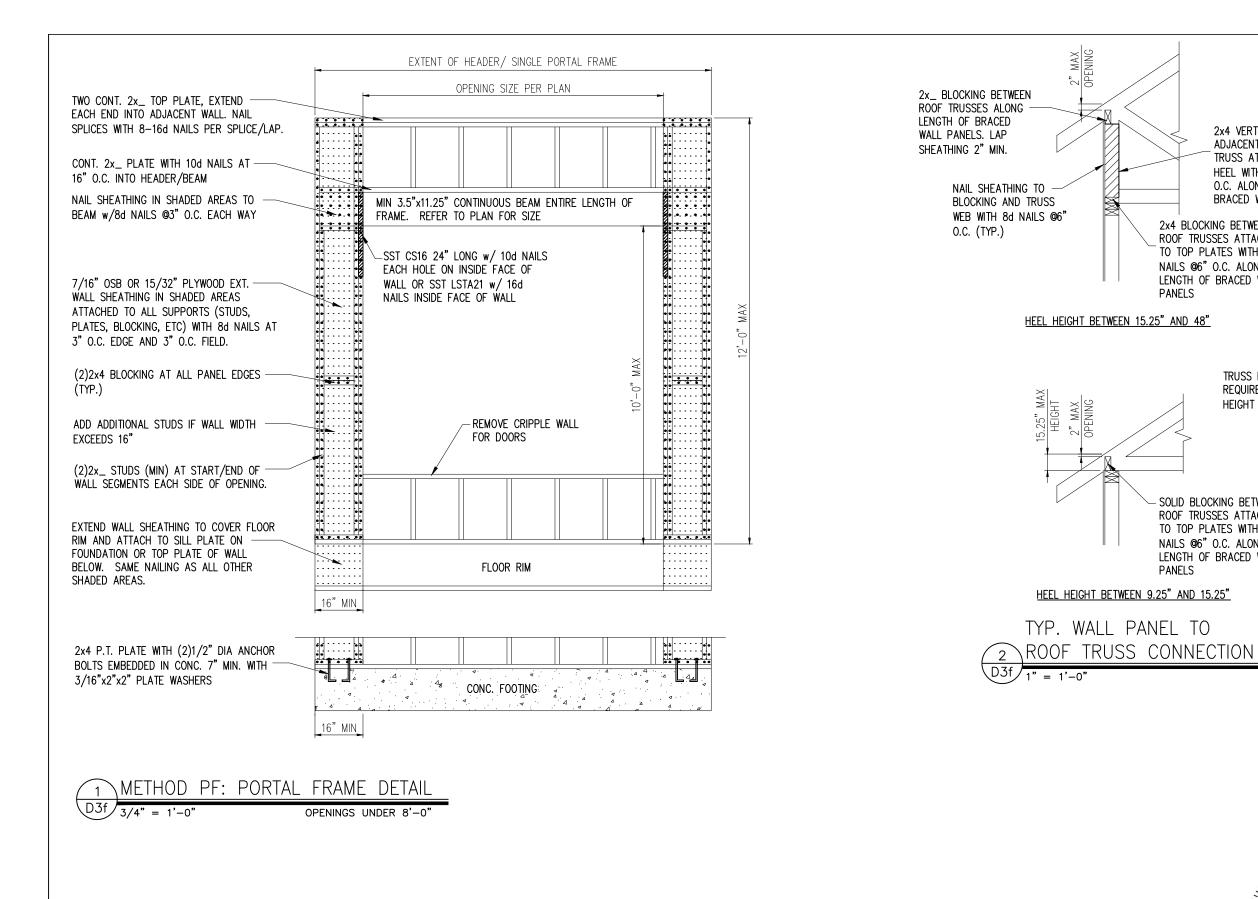


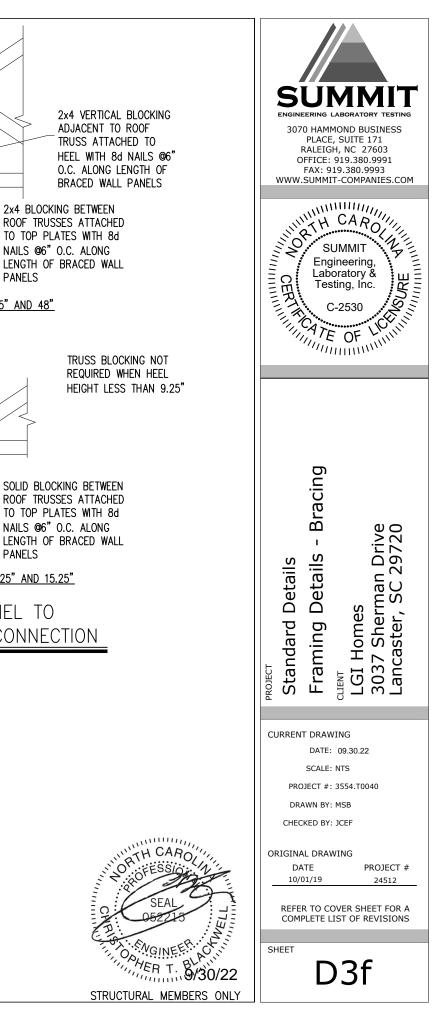


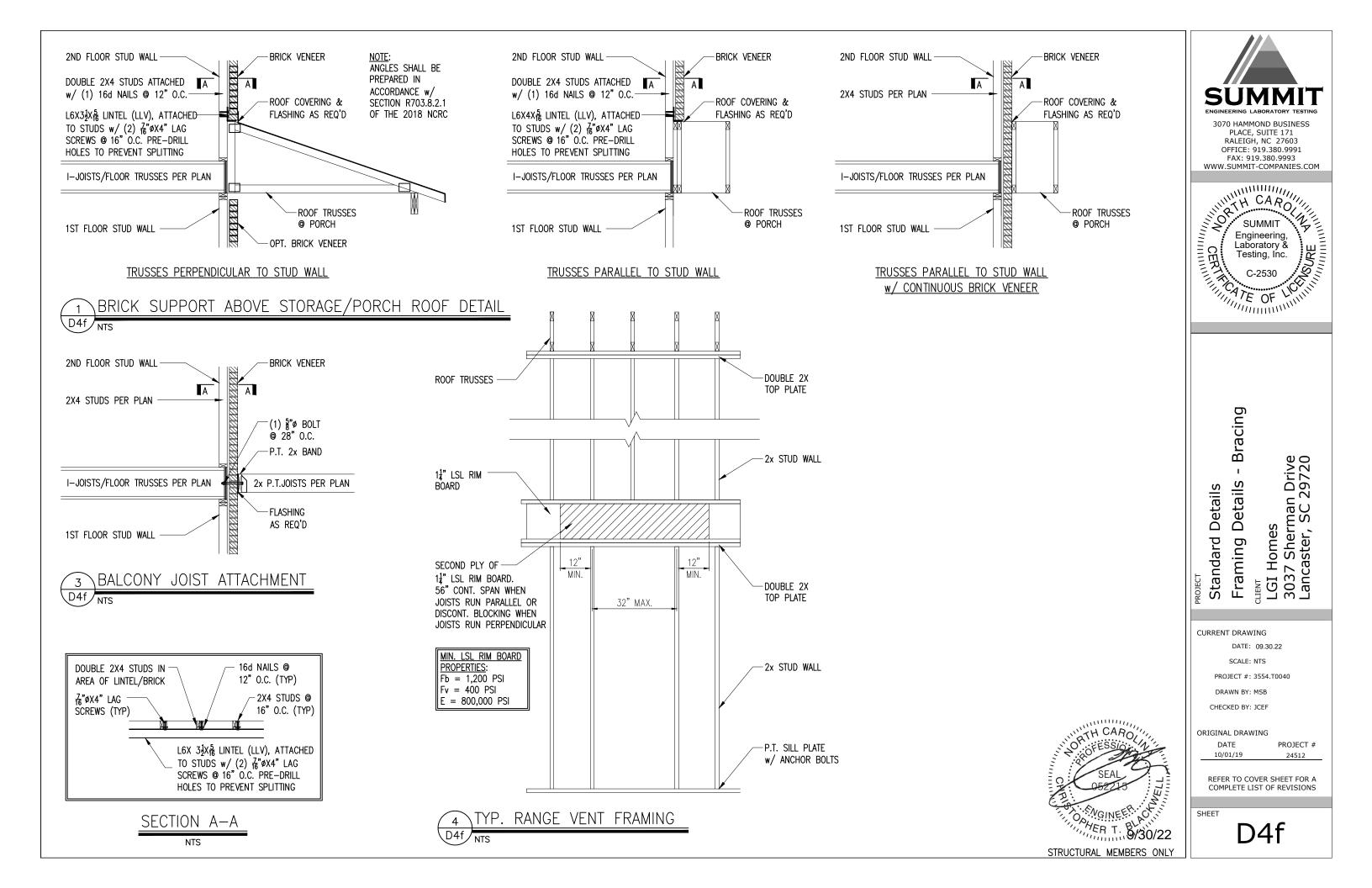


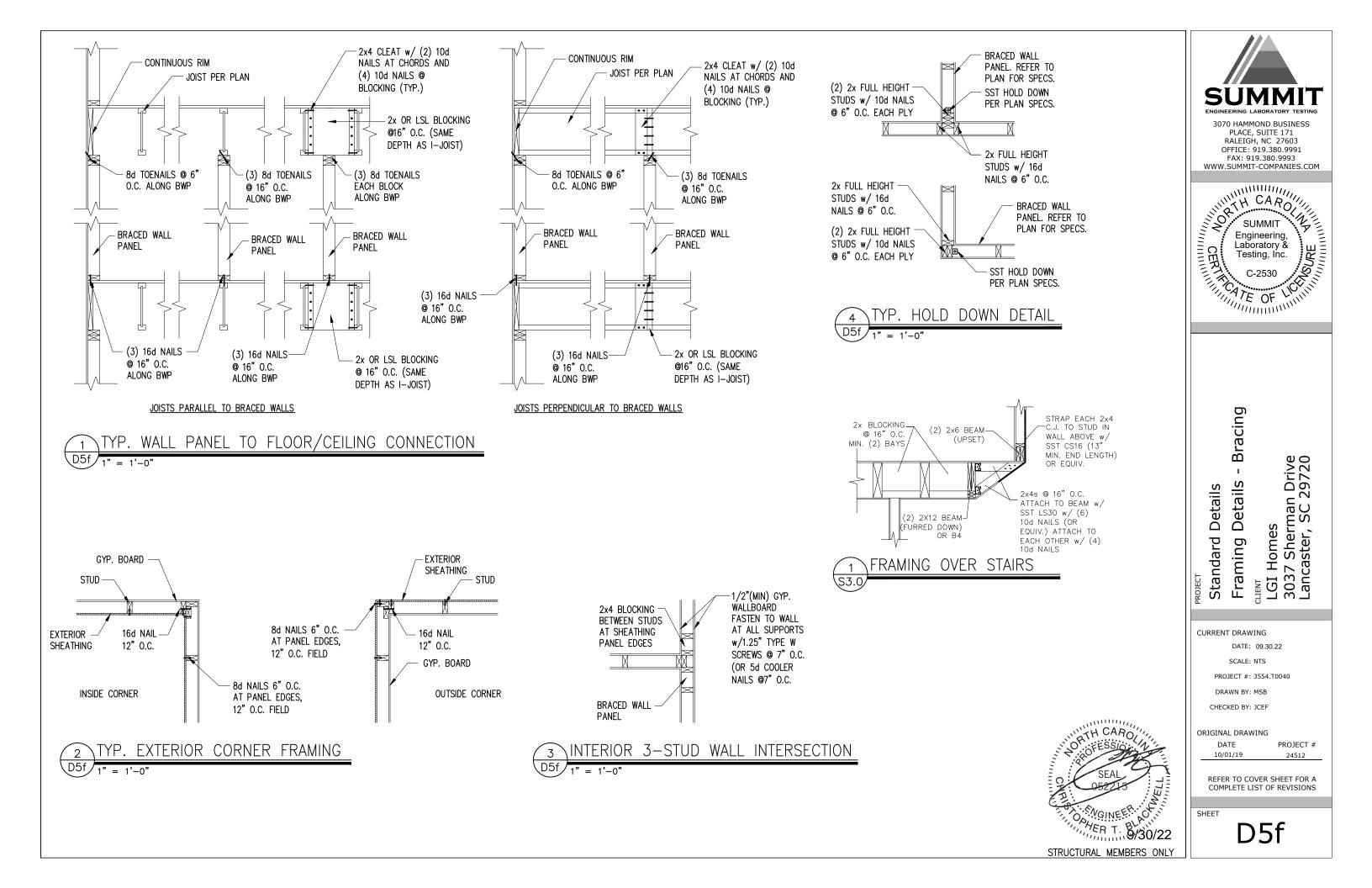


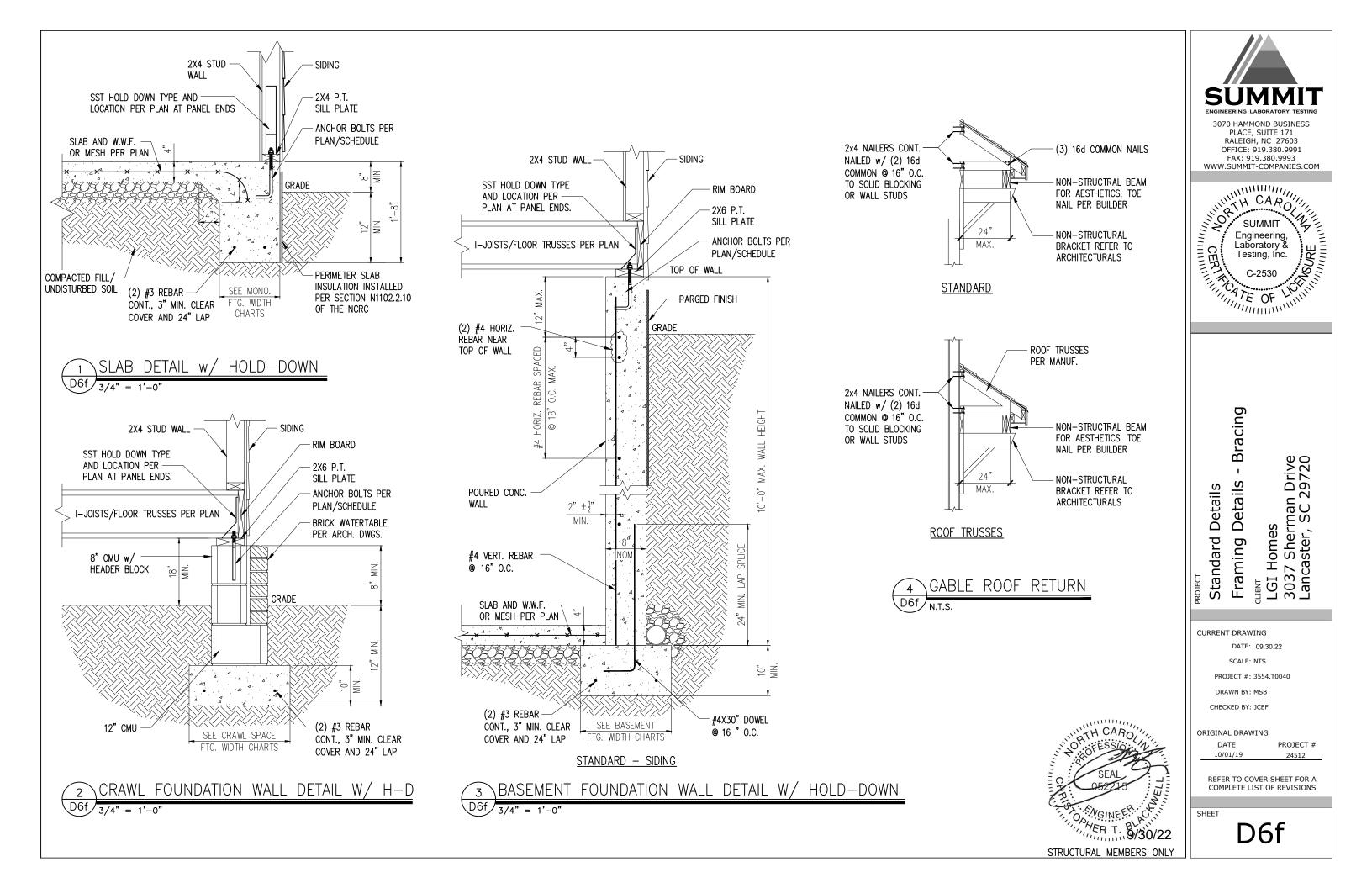


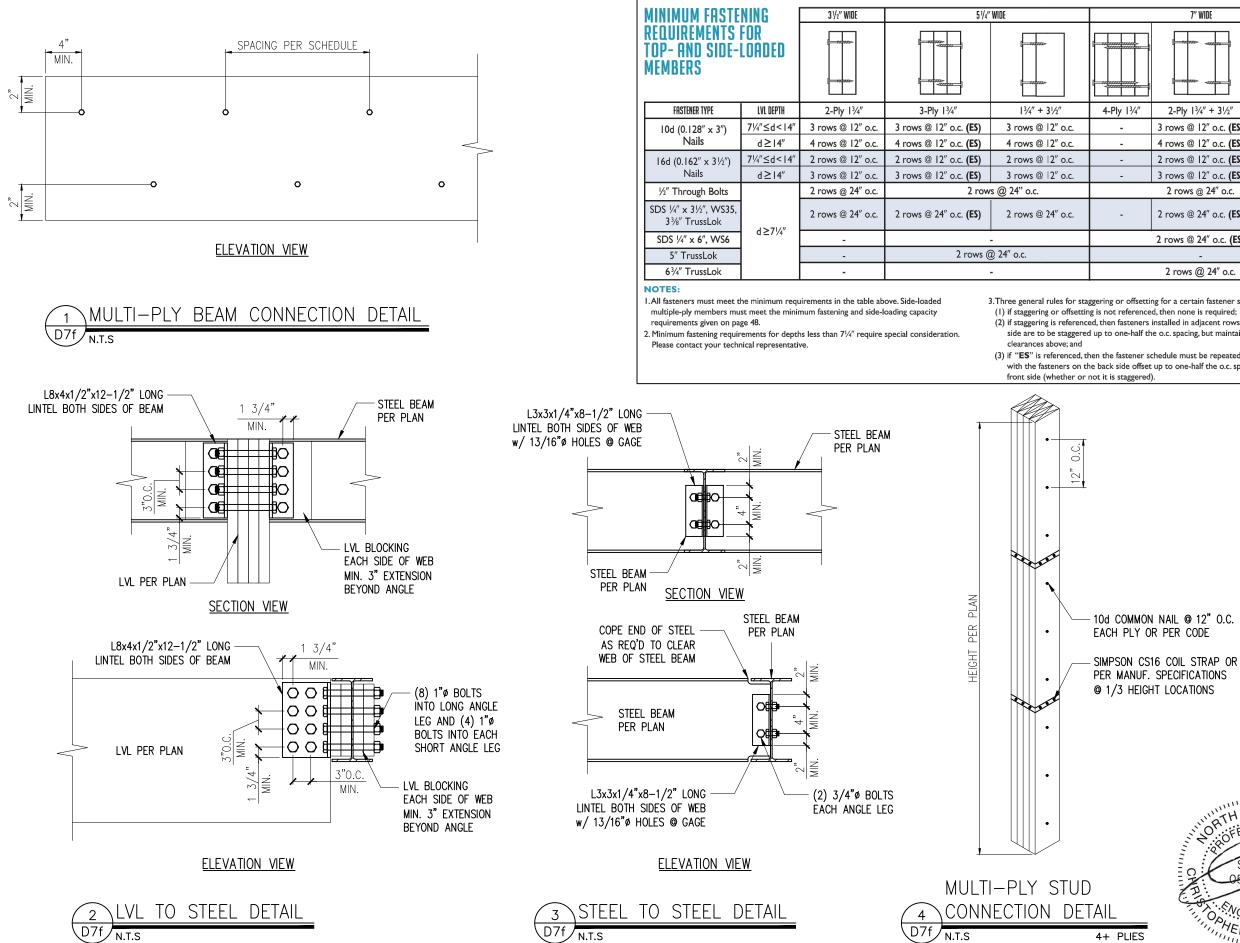












4+ PLIES

