CAROLINA

AT ATHERSTONE ANGIER, NORTH

A1.0



THE ALEXANDER AT ATHERSTONE COMMUNITY

SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1506 sf

GARAGE = 379 sfFRONT PORCH = 30 sf

TOTAL = 1915 sf

INDEX OF SHEETS

A1.0 COVER SHEET

GENERAL NOTES FLOOR PLAN & NOTES

EXTERIOR ELEVATIONS & NOTES

A3.1 EXTERIOR ELEVATIONS

FIRST FLOOR ELECTRICAL PLAN

INDEX OF SHEETS (CONT.)

CS1 COVER SHEET, SPECIFICATIONS, REVS.

COVER SHEET (CONTINUED)

S1.0m MONO SLAB FOUNDATION

S3.0 FIRST FLOOR FRAMING PLAN

FIRST 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



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)

 $\frac{1}{2}$ " GYPSUM WALL BOARD

% Type "X" Gypsum board ceiling where Living is above

20 MINUTE RATED GARAGE / HOUSE DOOR

ATTIC VENTILATION: (IRC 806)

1915 TOTAL SF / [300] = <u>6.38 SQ. FT. AREA REQUIRED</u>

RIDGE VENT:

59 FT RIDGE VENT X [18 SQUARE INCHES IN FREE AREA] / [12] = 88.5 SQ. FT. PROVIDED SOFFIT VENT:

56 FT VENTED SOFFIT X [7 SQUARE INCHES IN FREE AREA] / 12 = 32.67 SQ. FT. PROVIDED

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PERMIT SET
FOR CONSTRUCTION

● 29 DECEMBER 2021

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 BASED ON IRC 2018. 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

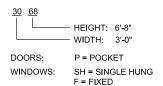
DOOR NOTES

-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



INSULATION NOTES

INSULATION VALUES PER 2009 SC ECC CH. 3 & 4 ENERGY CONSERVATION CODE

COLUMBIA, SC RICHLAND COUNTY - CLIMATE ZONE 3A

TABLE 402.1.1

CEILING: R-30 FLOOR: R-19 WALL: R-13

SQUARE FOOTAGES

FIRST FLOOR (HTD.)	= 1506 s
GARAGE FRONT PORCH	= 379 s = 30 s

= 1915 sf

TOTAL

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.00R	PLAN LEGEN
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
M	MIRROR
>	SHOWER HEAD
(RH)	RAIN HEAD
(T)	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 1/2" CEILING HEIGHTS ON FIRST FLOOR

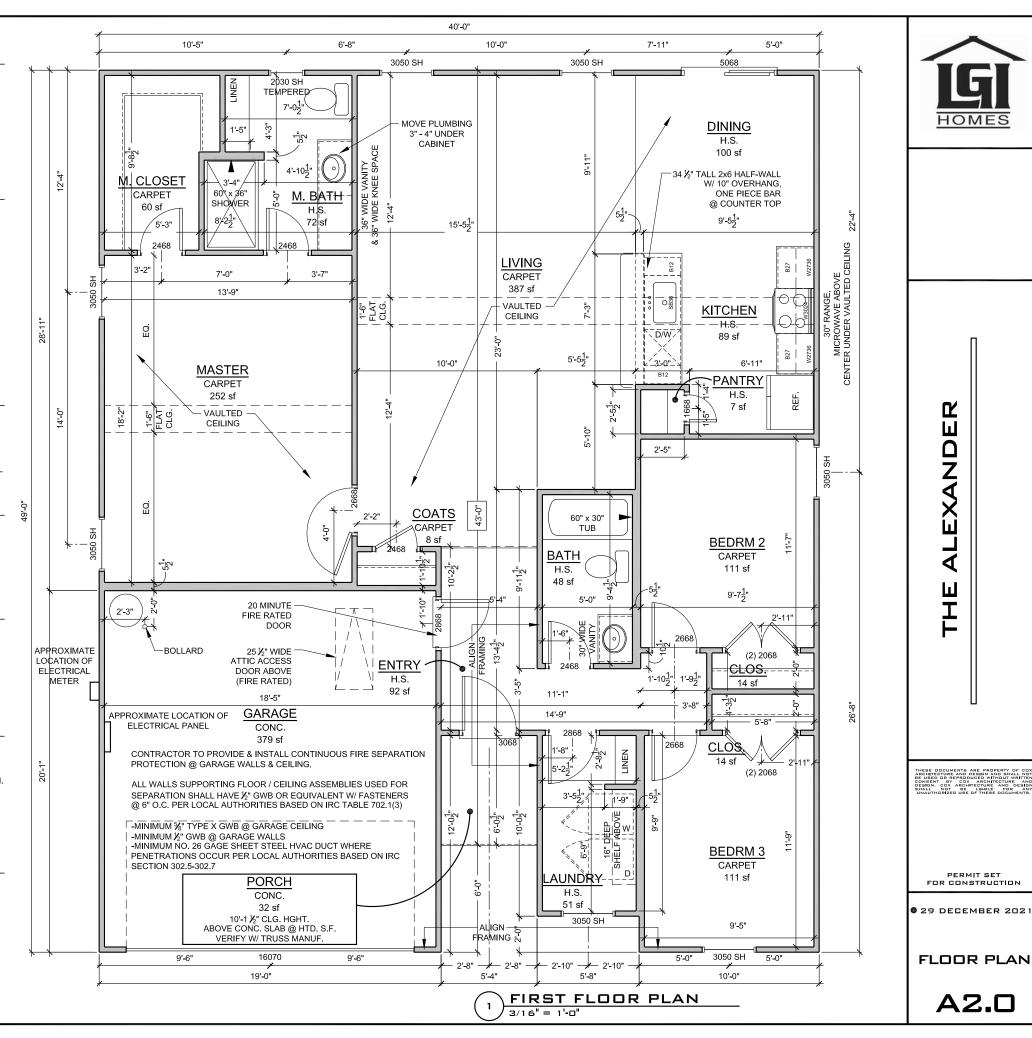
MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

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.



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 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' - 1 $\frac{1}{2}$ " CEILING HEIGHTS ON FIRST 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) 1/4" x 1 1/4" SCREWS INTO COLUMN & (2) ½" x 3 ½" 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.

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

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

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

-ALL SHINGLED ROOFS WITH A PITCH OF 4:12 OR LESS REQUIRE (2) LAYERS OF 30# FELT PAPER PER LOCAL AUTHORITIES BASED ON IRC 2018

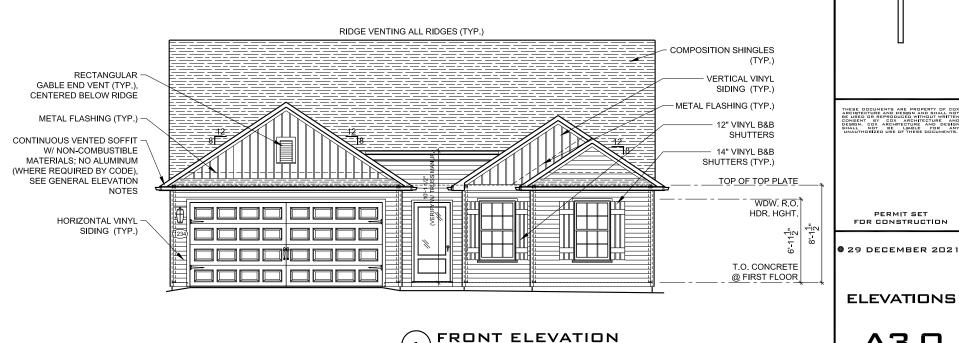
INSULATION NOTES

INSULATION VALUES PER 2009 SC ECC CH. 3 & 4 ENERGY CONSERVATION CODE

COLUMBIA, SC RICHLAND COUNTY - CLIMATE ZONE 3A

TABLE 402.1.1

FLOOR: WALL: R-13



1/8" = 1'-0'

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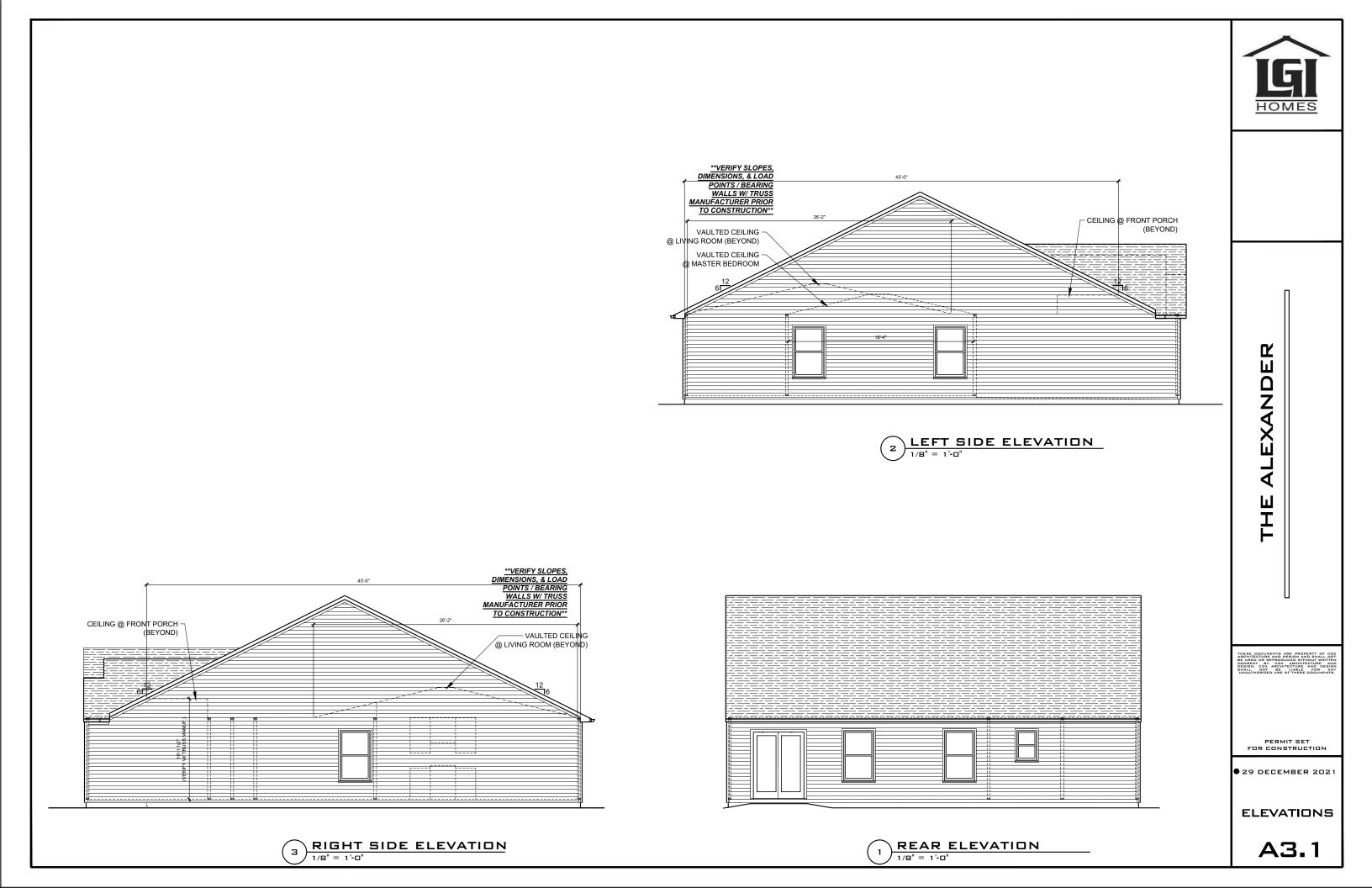
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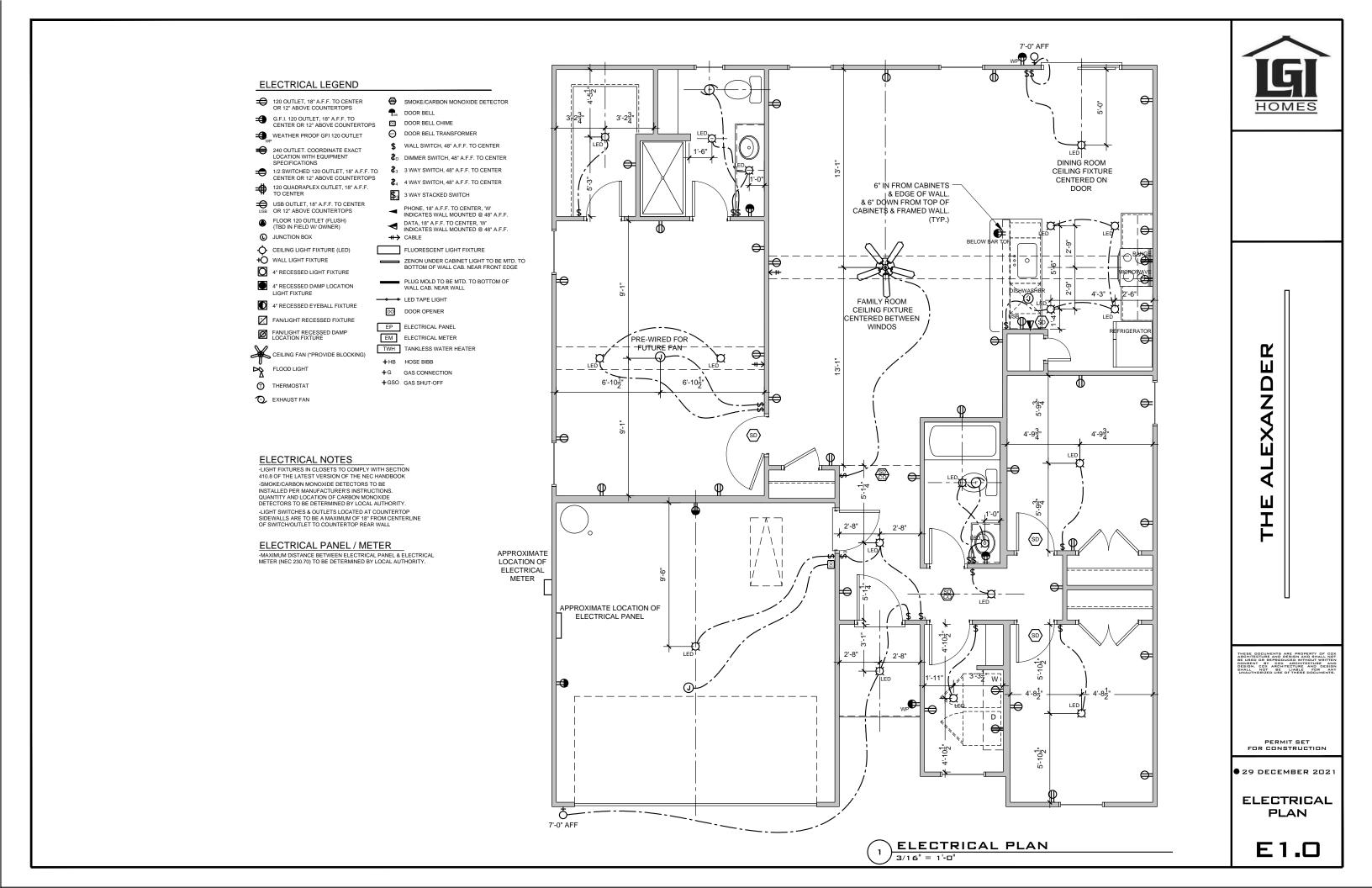
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A3.0





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

Desian Loads:

Caus:		
Roof	Live Loads	
1.1.	Conventional 2x	20 PSF
1.2.	Truss	20 PSF
	1.2.1. Attic Truss	60 PSF
Roof	Dead Loads	
2.1.	Conventional 2x	10 PSF
2.2.	Truss	20 PSF
Snow		15 PSF
3.1.	importance Factor	1.0
Floor	Live Loads	
4.1.	Typ. Dwelling	40 PSF
4.3.	Decks	40 PSF
4.4.	Passenger Garage	50 PSF
5.1.	Conventional 2x	10 PSF
5.2.	i-Joist	15 PSF
5.3.	Floor Truss	15 PSF
Ultima	te Design Wind Speed (3 sec. gust)	130 MPH
6.1.	Exposure	В
6.2.	Importance Factor	1.0
	6.3.l. Vx =	
	Roof 1.1. 1.2. Roof 2.1. 2.2. Snow 3.1. Floor 4.1. 4.2. 4.3. 4.4. Floor 5.1. 5.2. 5.3. Ultima 6.1. 6.2.	Roof Live Loads I.I. Conventional 2x I.2. Truss I.2.I. Attic Truss Roof Dead Loads 2.I. Conventional 2x 2.2. Truss Snow 3.I. Importance Factor Floor Live Loads 4.I. Typ. Dwelling 4.2. Sleeping Areas 4.3. Decks 4.4. Passenger Garage Floor Dead Loads 5.1. Conventional 2x 5.2. I-Joist 5.3. Floor Truss Ultimate Design Wind Speed (3 sec. gust) 6.1. Exposure 6.2. Importance Factor 6.3. Wind Base Shear

•		-		
MEAN ROOF HT.	UP TO 30'	3Ø'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
70NE E	192 210	102 252	199 261	201 269

ZONE 5	5 18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9	
<i></i>					
Seismi	С				
8.1.	Site Class			D	
8.2.	Design CategoryC				
8.3.	Importance Fact	ŏr		1.0	
8.4.	Seismic Use Gro	up		1	
8.5.	Spectral Respo	nse Accelera	tíon		

8.5.1. Sms = "%g 8.5.2. Sml = %g

8.6. Seismic Base Shear

6.3.2.Vy = 7. Component and Cladding (in PSF)

8.6.1. Vx =

9. Assumed Soil Bearing Capacity ...

	0.0.2.vy	=		
8.7.	Basic Str	uctural System (check one)		
	\boxtimes	Bearing Wall		
		Building Frame		
		Moment Frame		
		Dual w/ Special Moment Frame		
		Dual w/ Intermediate R/C or Specia	l St	ee
		Inverted Pendulum		
8.8.	Arch/Mec	h Components Anchored		No
8.9.	Lateral D	esian Control: Seismic 🗆 Wir	nd	\boxtimes

. 2000psf



STRUCTURAL PLANS PREPARED FOR:

ALEXANDER

PROJECT ADDRESS: TBD

OWNFR: 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 T	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	TJ	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 & Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by <u>LGI HOMES</u>. 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.	Descripti <i>o</i> n
CSI	Cover Sheet, Specifications, Revisions
CS2	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
S1.0b	Basement Foundation
S2.Ø	Basement Framing Plan
S3.Ø	First Floor Framing Plan
54.0	Second Floor Framing Plan
S5.Ø	Roof Framing Plan
S6.Ø	Basement Bracing Plan
57.Ø	First Floor Bracing Plan
58.0	Second Floor Bracing Plan

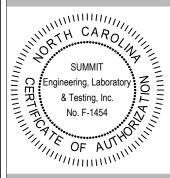
Revision No.	Date	Project No.	Description
0	1/30/19	26545	Original Engineering
1	1/7/21	26545R1	Add stick frame roof option
2	2/2/21	26545R2	Revised to have thermo ply bracing
3	10/18/21	26545R3	Revised per new architecturals
4	12/29/21	26545R4	Updated Seal



STRUCTURAL MEMBERS ONLY



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



Suite 14 LGI Homes 7201 Creedmoor Road, S Raleigh, NC 27613

CURRENT DRAWING

ALEXANDER (LH)

DATE: 12/29/2021

Coversheet

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/29/2020 PROJECT #

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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.
- The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 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.
- 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 begins.
- 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.
- All structural assemblies are to meet or exceed to requirements of the current local building code.

<u>FOUNDATION</u>

- 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.
- 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.
- 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.
- 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.
- Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- 3. All steel shall have a minimum yield stress (F_y) of 36 ksi unless otherwise noted
- 4. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.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

- 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.
- 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".
- 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%
- 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.
- 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 of 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.
- IØ. All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF. 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.
- 2. 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 CIllb, 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, grade 60.
- 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"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or comer bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 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.
- ID. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

JOOD 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) 12.
- LVL or PSL engineered wood shall have the following minimum design values:
 - 2.1. E = 1,900,000 psi
 - 2.2. Fb = 2600 psi
 - 2.3.Fv = 285 psi
- 2.4.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
- 4. Nails shall be common wire nails unless otherwise noted.
- 5. Lag screws shall conform to ANSI/ASME standard B182,1-1981. 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.
- T. 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 studs 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) lod 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.
- 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, 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."
- 4. 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:

- 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 APA.
- 3. 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 (I)-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 1/8ⁱⁱ 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 information.

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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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LGI Homes 7201 Creedmoor Road, Suite Raleigh, NC 27613

14

CURRENT DRAWING

ALEXANDER (LH)

DATE: 12/29/2021

Coversheet

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/29/2020 PROJECT # 26545

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

C. IEE

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 ACI STANDARD 318.

 FOOTINGS TO BE FLACED ON NODSTRURED EARTH, BEARING A NINIMM OF 12" BELOW ADJACENT ENIGHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BUSINGS WITH ACID ADJACENT ENIGHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BUSINGS WITH ACID ADJACENT ENIGHED.
- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE
 ENFORCEMENT OFFICIAL.
 FOOTNAS SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000
 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFTING THE SUITABILITY OF
 THE STIE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
 FOOTNAS AND PIERS SHALL BE CENTIFEED UNDER THEIR RESPECTIVE ELEMENTS.
 FROVIDE 2" INNIMIT FOOTNAS PROJECTION FROM THE FACE OF MASOWEY.
 MAXIMUM DEPTH OF UNBAL MACED FILL AGAINST MASORYS WILLS TO BE AS
 SPECIFIED IN SECTION RADA! OF THE 2008 NORTH CAROLINA RESIDENTIAL
 BUILDING COST.

- SPECIFIED IN SECTION REQUIRED THE 2009 NORTH CAROLINA RESIDENTIAL PROPERTY OF THE 2009 NORTH CAROLINA RESIDENTIAL PROPERTY OF THE 2009 NORTH CAROLINA RESIDENTIAL PROVIDE POLICIAIN AND THE POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CANDITIONS, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CANDITIONS.

 FRONDED PERIFETER NISLLATION FOR ALL FOUNDATIONS PER 2009 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 CORRELL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.

 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2009 NORTH CAROLINA RESIDENTIAL CODE SECTION REVISION. INITIALITY O'D AS OWNER OF SPECIAL SECTION OF THE PLATE SECTION AND (IN DISCOVERY OR CONCRETE INITIALITY O'D AS OWNER OF THE SECTION AND (IN DISCOVERY OR CONCRETE INITIALITY O'D AS OWNER WITH AN DISCOVERY OR CONCRETE INITIALITY OF A CHIEF CONTRET AND IN THE CONTRET HISTORY OF THE PLATE.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS 9C = 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
- 14. ALL PIERS TO BE 16 "XI6" MASONRY AND ALL PILASTERS TO BE 8 "XI6" 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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 12/29/2021. 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

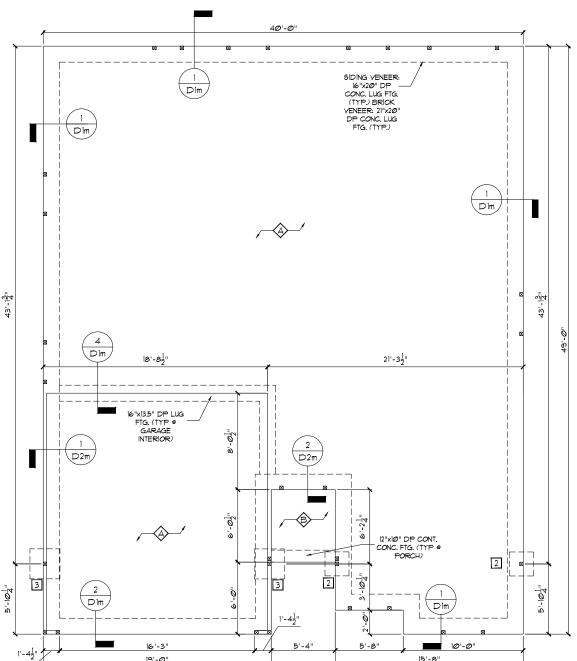
ROOF TRUSS AND FLOOR JOIST LAYOUTS. AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO SUMMIT ENGINEERING, LABORATORY & TESTING. INC. (SUMMIT) PRIOR TO THE INITIAL DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE INFORMATION PROVIDED BY LGI HOMES, SUBSEQUENT PLAN REVISIONS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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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



ALL ELEVATIONS - ROOF TRUSS ROOFS

FOUNDATION SCHEDULE				
TAG	DESCRIPTION	REBAR REQ'D		
	16"5Q x1Ø"D	NONE		
2	24"5Q x 10"D	NONE		
3	30"5Q x 10"D	NONE		
4	36"5Q x 12"D	NONE		
5	42"5Q x 12"D	(4) *4 E.W.		
6	48"5Q x 12"D	(6) *4 E.W.		
	4" THICK POURED CON	ICRETE SLAB W/		
A>	FIBER MESH ON 6 N	11L POLY ON		
COMPACTED SOIL				
A	4" THICK POURED CON	CRETE SLAB ON		
COMPACTED SOIL				
ABBREVIATIONS: W = WIDTH, D = DEPTH, SQ = SQUARE				

B.D. = BOTH DIRECTIONS, CONT. = CONTINUOUS, MONO = MONOLITHIC SLAB FOOTING



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CURRENT DRAWING

Fnd

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Monolithic

LEXANDER

DATE: 12/29/2021

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 1/29/2020

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STRUCTURAL MEMBERS ONLY

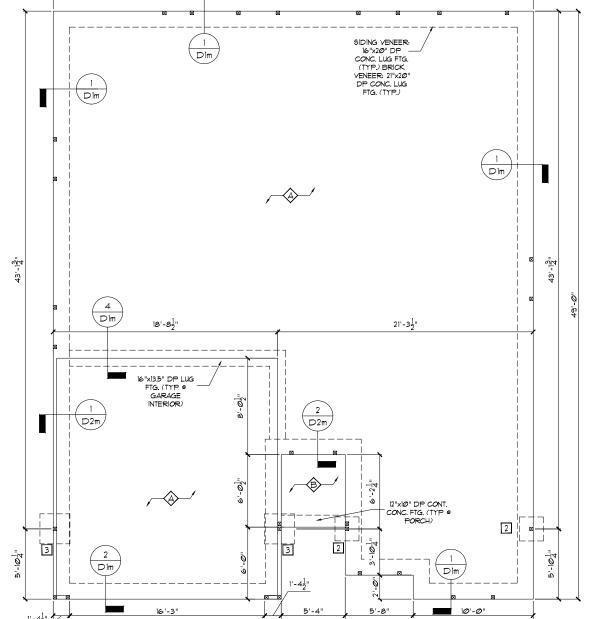
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PROJECT # 26545

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 70'80 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 RESIDENT AND INSPERS AND INTEREST NISHBUR ERECTTON.

- ALL EVENT OF HALL BE SUPPONED WITH A 177.06 Y 9 TH 9 SIDU COUNT AT EACH NO INLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORTING TO ASTH A65 AND SHALL HAVE A MINIMUM COVER OF 97.

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

 CONTRACTOR TO PROVIDED LOCKOUTS WHEN CEILING JOISTS SPAN DESCRIPTION AND TO ALL THE PROVIDED LOCKOUTS WHEN CEILING JOISTS SPAN DESCRIPTION.
- PERPENDICULAR TO RAFTERS. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED
- FILICH BEAMS, 4-M2T IVLS AND 3-MLT SIDE LOADED LYLS SHALL BE BOULED TOGETHER BITH JO PLA THAN BOULTS SHACED AZ 4º OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS FER DETAIL (D'IT, MN EDGE DISTANCE SHALL BE 2° AND (2') BOLTS SHALL BE LOCATED INIMIMA* FROM EACH BOO FT HE BEAM. ALL NON-LOAD BEARNIA HEADERS SHALL BE (0') FLAT 2'A 5'TP 9, DROPFED. FOR NON-LOAD BEARNIA HEADERS SHALL BE (0') FLAT 2'A 5'TP 9, DROPFED. (NON-BOULD BEARNIA HEADERS EXCEEDING 3'-0' M WIDTH AND/OR WITH MORE THAN 2'-0' OF CRIPPLE WALL ABOVE, SHALL BE (2') FLAT 2'x4 5'YP 12, DROPFED. (NESS NOTED OTHERWISE) ABBREVIATIONS.

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

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

NOTES:
L BRACED WALLS 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 STORM WALLS SHALL BE FRAMED W 2x4 STUDS 6" 12"
O.C. OR 2x6 STUDS 6" 16" O.C. BALLOON RRAMED W
HORZONIAL BLOCKING 6" 6" O'C. KERTICALLY.

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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURA PLANS PROVIDED BY <u>LGI HOMES</u> COMPLETED/REVISED ON 12/29/2021. 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.

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.

STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED FER TRUSS MANACATRER IN ACCORDANCE WITH SECTION REQUILI WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH HETHOD 3 OF SECTION REG0335 OF THE 2008 NCRC. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

NOTE: OVERFRAMING PER ROOF TRUSS MANUF, OR AS FOLLOUS: NOTE: OVERFRAMMS FER ROOT TRUSS MANE, OR AS POLICIUSMN 2: 26 RAFFERS 9.2" OC. FOR SPANS UP TO 10"-0"
MN 2: 26 RAFFERS 9.2" OC. FOR SPANS UP TO 10"-0"
MN 2: 26 RAFFERS 9.2" OC. FOR SPANS UP TO 10"-1"
MN 2: 26 RAFFERS 9.2" OC. FOR SPANS UP TO 10"-1"
MN 2: 26 RAFFERS 9.2" OC. FOR SPANS UP TO 10"-1"
MN 2: 27 RAFFERS 9.4" OC. FOR SPANS UP TO 10"-1"
MN 2: 27 RAFFERS 9.4" OC. ED PURISSON LUMBER SIZE LARGER
THAN OPPOSITE RAFFERS 9.4"
RAFFERS SHALL BESCURED TO ROOT ENGISS UP (2)"-16" NALIS.
SHALL BE SECURED TO PLACE MOVE ALT PLACE VALLEY, VALLEY
SHALL BE SECURED TO PLACE MN (3)"-16" NALIS.
GPANS ARE BASED ON HORIZ PROJECTED RAFTER LENGTH.

A

2X4 BALLOON FRAMED STUDS @16"@.C. w/ 2X BLOCKING 96' O.C. VERTICALLY (TYP 9 VAULTED CLG.)

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(5) (3)-

ALL ELEVATIONS - ROOF TRUSSES

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GIRDER TRUSS BY MANUE

ROOF TRUSSES PER MANUE

PORTAL FRAME PER DETAIL I/DIF

NOTE: 1ST 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, UNO)

REFER TO DETAIL 4/D61 FOR EYEBROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

2X4 BALLOON FRAMED STUD @16 "O.C. w/ 2× BLOCKING @6' O.C. VERTICALLY (TYP @ VAULTED CLG.)

GIRDER TRUSS BY MANUE

ROOF TRUSSES PER MANUF.

A

TRUSS UPLIFT CONNECTOR SCHEDULE					
MAX, UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND		
600 LBS	H2.5A	PER WALL SHEATHIN	IG 4 FASTENERS		
1200 LBS	(2) H2.5A	CSI6 (END = II")	DTT2Z		
145Ø LBS	HT52Ø	C616 (END = 11")	DTT2Z		
2000 LBS	(2) MT62Ø	(2) C516 (END = 11")	DTT2Z		
2900 LBS	(2) HT52Ø	(2) CSI6 (END = 11")	HTT4		
3685 LB6	LGT3-6D62.5	M6TC52	HTT4		
LALL PRODUCTS LISTED ARE SIMPLED STRONG TIE FOUNDALENT					

PRODUCTS MAY 2. UPLIFT VALU

ADDITIONAL WITHORAW STRENGTH FROM REQUIRED TRUSS TO TOP PLATE TOE MALING FOR CHAPTER OF THE NCRC.

3. REFER TO TRUSS CONNECTIONS, CONNECTIONS SPECIFIED BY TRUSS AND TRUSS TO TRUSS CONNECTIONS (SOMECTIONS SPECIFIED BY TRUSS MANIFACTURER OVERRODE THOSE LISTED ABOVE.

4. TRUSS MALACTURER IS REPONSIBLE FOR VERIFYING CONNECTIONS SATISFIES ALL TRUSS BEARING REQUIREMENTS.

5. CONTACT SYMMIT FOR REQUIRED CONNECTIONS WHEN LOADS EXCEED THOSE LISTED ABOVE.

USS UPLIFT C	ONNECTOR SCHE	EDULE	H	EADER SCHEDU	_
ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND	TAG	SIZE	Ī
H2.5A	PER WALL SHEATHIN	IG 4 FASTENERS	A	(2) 2x6	ī
(2) H2.5A	C916 (END = 11")	DTT2Z	В	(2) 2x8	i
HTS2Ø	CSI6 (END = II")	DTT2Z	С	(2) 2xlØ	ī
(2) MT52Ø	(2) C516 (END = 11")	DTT2Z	D	(2) 2xt2	ī
(2) HT52Ø	(2) CSI6 (END = 11")	HTT4	E	(2) 9-1/4" LSL/LVL	Ĺ
LGT3-6D62.5	M6TC52	HTT4	F	(2) 11-1/8" LSL/LVL	Ĺ
	IMPSON STRONG-TIE. EQ		G	(3) 2x8	L
	IANUFACTURER'S SPECIFI OR SYP 12 GRADE MEMB		н	(3) 2xlØ	L
	LI FROM REQUIRED TRUS		1	(3) 2xl2	ı

NOTES: I. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER L HEADER SIZED SHOUN ON PLANS ARE MINIMINS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

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

3. STUD COLUMN OVER ONE ON PLAN OVERRIDE STUD COLUMNS (UND.).

KING STUD	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 AROVE DO NOT ARREY TO					

	BEAM SCHEDULE				
TAG	SIZE				
BI	(1) II-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				
В6	(2) 9-1/4" L9L/LVL				
В1	(1) 11-7/8" L9L/LVL				
B8	(2) II-7/8" L9L/LVL				
B9	(1) 14" L9L/LVL				
BIØ	(2) I4" L5L/LVL				
Bil	(2) 2xlØ				

NOTES: 1. BEAMS ARE TO BE SET FOR EASE OF CONSTRUCTION. 2. BEAMS ARE TO BE SET TOP FLUSH W FLOOR SYSTEM (UNO)

LIGHED ADOVE (WINDS.				
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)			

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					
BEAM SCHEDULE					
TAG	TAG: SIZE				
Bl (I) II-7/8"		FLOOR JOIST OR FLOOR TRUSS			
D0 (0) II 7(0)		EL COD LOIST OD EL COD TRUSS			

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STRUCTURAL MEMBERS ONLY

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Suite Road, 3 Framing Creedmoor | gh, NC 2761 Floor Homes leigh, First LGI 7203 Ralei

4

CURRENT DRAWING

LEXANDER

DATE: 12/29/2021

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT # 1/29/2020 26545

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S3.0

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** # 7" 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 R602.10.6.4	PER FIGURE R602.10.6.4	
"OR EQUIVALENT PER TABLE R10235					

FIRST FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD REQUIRED PRO

BRACED WALL NOTES:

- WALLE SHALL BE DESIGNED IN ACCORDANCE W SECTION REGIZIO FROM THE 2015
 MIERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AMENDMENTS.

 WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND LITHATE DESIGN UND
 SPEEDS BY TO ISO MPH.

 REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OFFENS SIZE.

 BRACKING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
 TABLE REGIZIOA

 ALL PRACED WALL PANELS SHALL BE FILL WALL HEIGHT AND SHALL NOT
 EXCEED WETER FOR ISOLATED PANEL METHOD AND IT RET FOR CONTINUOUS
 SHEATHING THEIROD WITHOUT ADDITIONAL BRISINEERING CALCULATIONS.

 MINIMUM PANEL LENGTH SHALL BE FIER TABLE REGIZIOS.

 SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM IN GYPOWN BOARD (MKO).
 FOR CONTINUOS SHEATHING METHOD, EXTERNOR MULLS SHALL BE SHEATHED ON
 ALL SHEATHER SHEFACES NICLIONIA WITH ANEAS BETWEEN BRACED WALLS.

 FOR CONTINUOS SHEATHING METHOD, EXTERNOR MULLS SHALL BE SHEATHED ON
 ALL SHEATHER SHEFACES NICLIONIA WITH ANEAS BETWEEN BRACED WALLS.

 FLOORS SHALL NOT BE CANTILEVERED MORE THAN 124" BETWOEN THE OWN DATION.

- PRACED, RECVIR AND BELLOW WILL PREID PROPE THAN 14" BEYOND THE FOUNDATION OF PLOOPS SHALL NOT BE CANTILEVERED PROPE THAN 14" BEYOND THE FOUNDATION OF A BRANCH WALL BY PAREL SHALL BE LOCATED WILL PANEL SHALL BE LOCATED WINN TO FEED OF A BRANCH WALL BE LOCATED WINN TO FEED OF SHALL INST.

 11" PRAVINTING THE EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEPT 20" FEET THAN 15" FOR TRANSFER OF BRACING LOADS AND APPLY THE SHALL BE DESIGNED IN ACCORDANCE WITH FREE SHALL BE DESIGNED IN ACCORDANCE WITH FREE SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REPORTS.

 1 PRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REPORTS.

 1 PRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REPORTS.

 1 PRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REPORTS.

 1 PRACED WALL AND WALL OUT BASETIETT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REPORTS.

 1 PROPERTY WAS A SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REPORTS.

 1 PROPERTY WAS A SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REPORTS.

- (INC)

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

 19. ABBREVIATIONS:

GB = GYP9UM BOARO USP = 1000D STRUCTURAL PANEL CS- $\times\times\times$ = CONT. SHEATHED ENG = ENG. PORTAL FRAME FF-ENG = ENG. PORTAL FRAME

NSTALL HOLD-DOWNS 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 RE60235 OF THE 2018 NORC.

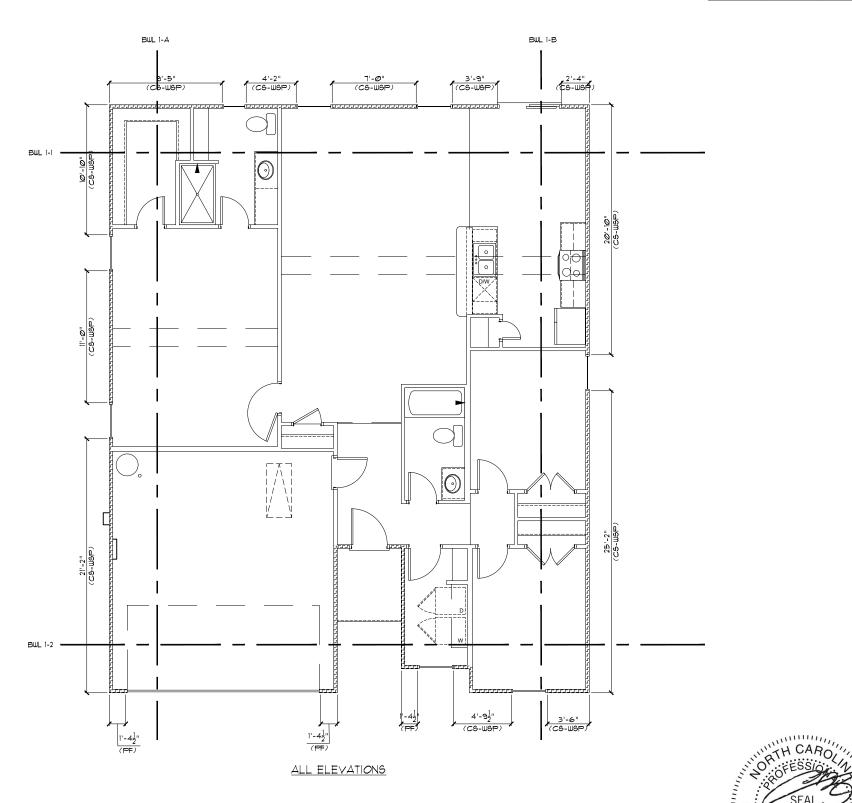
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 12/19/2021. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT 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.

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





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14

CURRENT DRAWING

ALEXANDER

Bracing

Floor

First

DATE: 12/29/2021

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE

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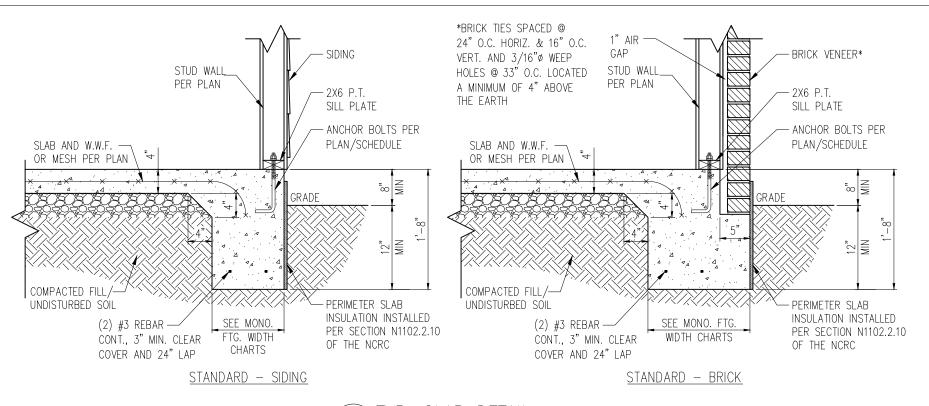
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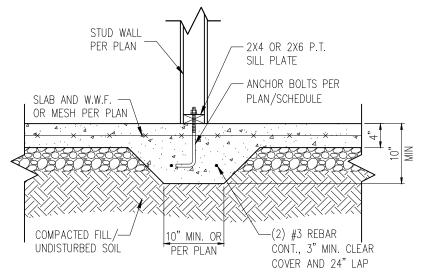
PROJECT # 26545

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

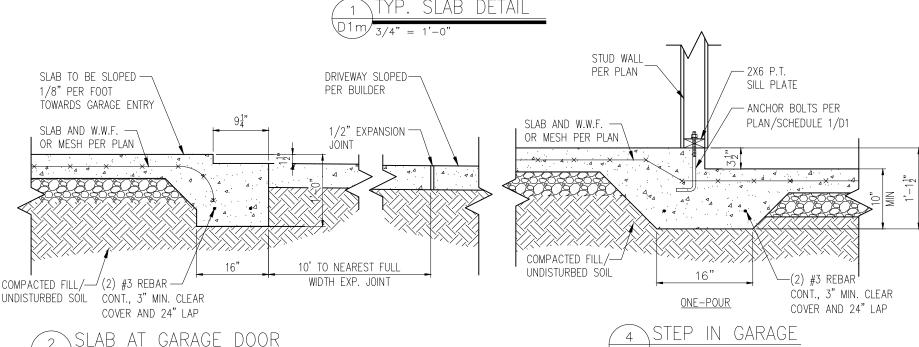
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THICKENED SLAB DETAIL



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

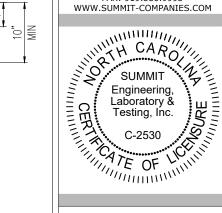
FOOTING WIDTH FOR BRICK SUPPORT

# 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

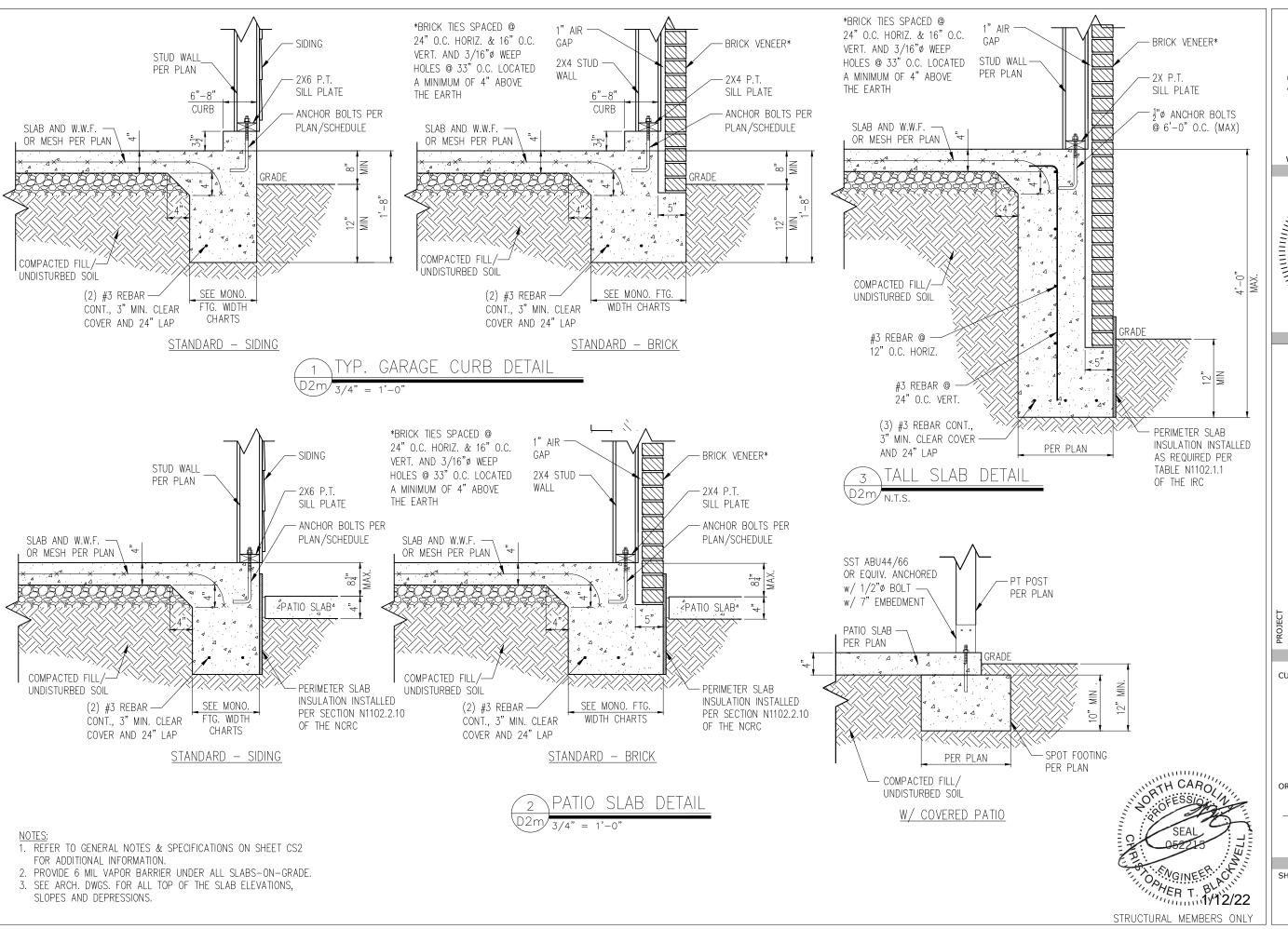
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D₁m

SLOPES AND DEPRESSIONS.

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

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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PROJECT #: 3554.T0040

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CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19

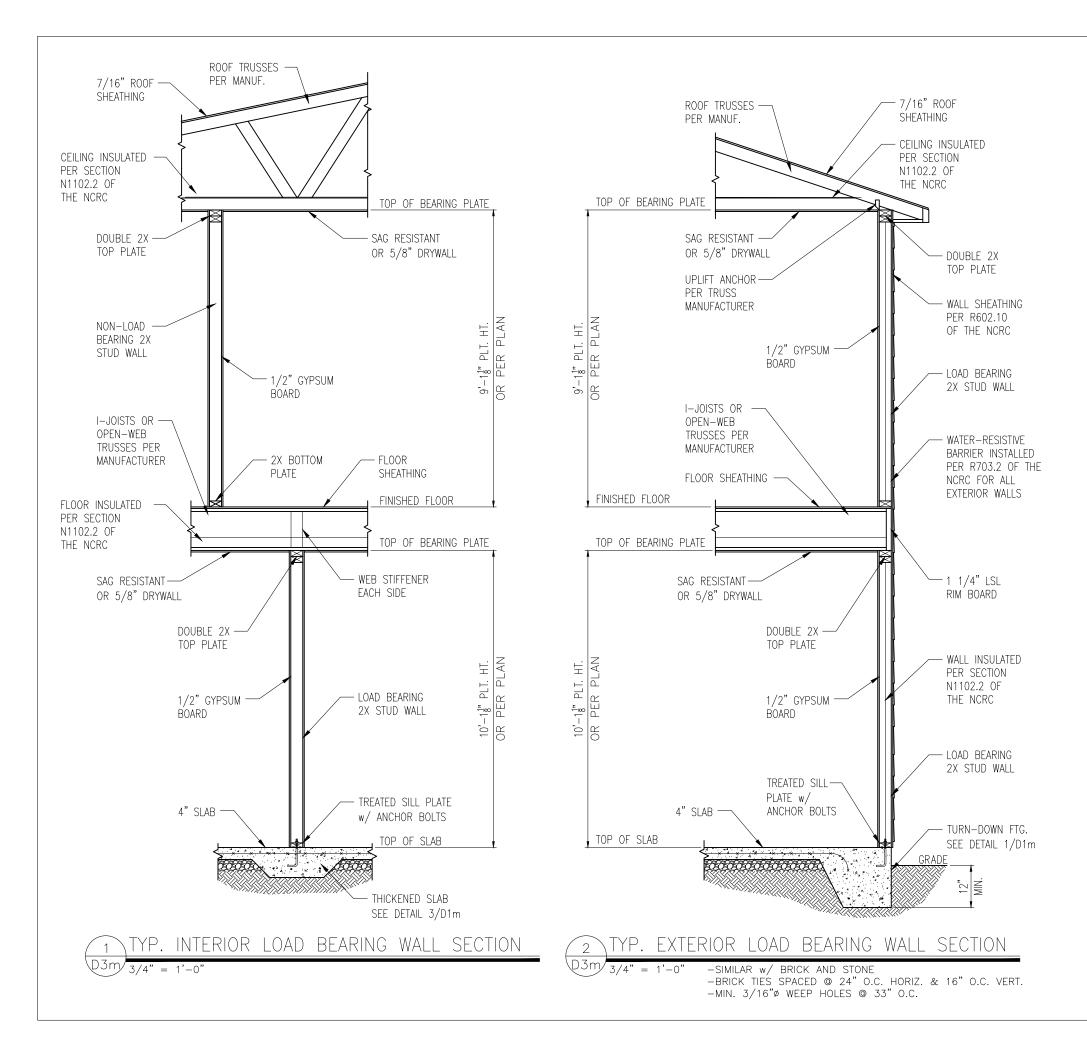
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PROJECT #

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COMPLETE LIST OF REVISIONS

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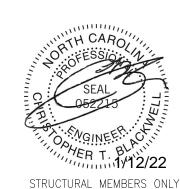




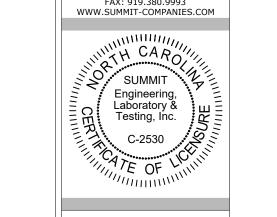
NOTES:
1. REFER TO GENERAL NOTES &

2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.

3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



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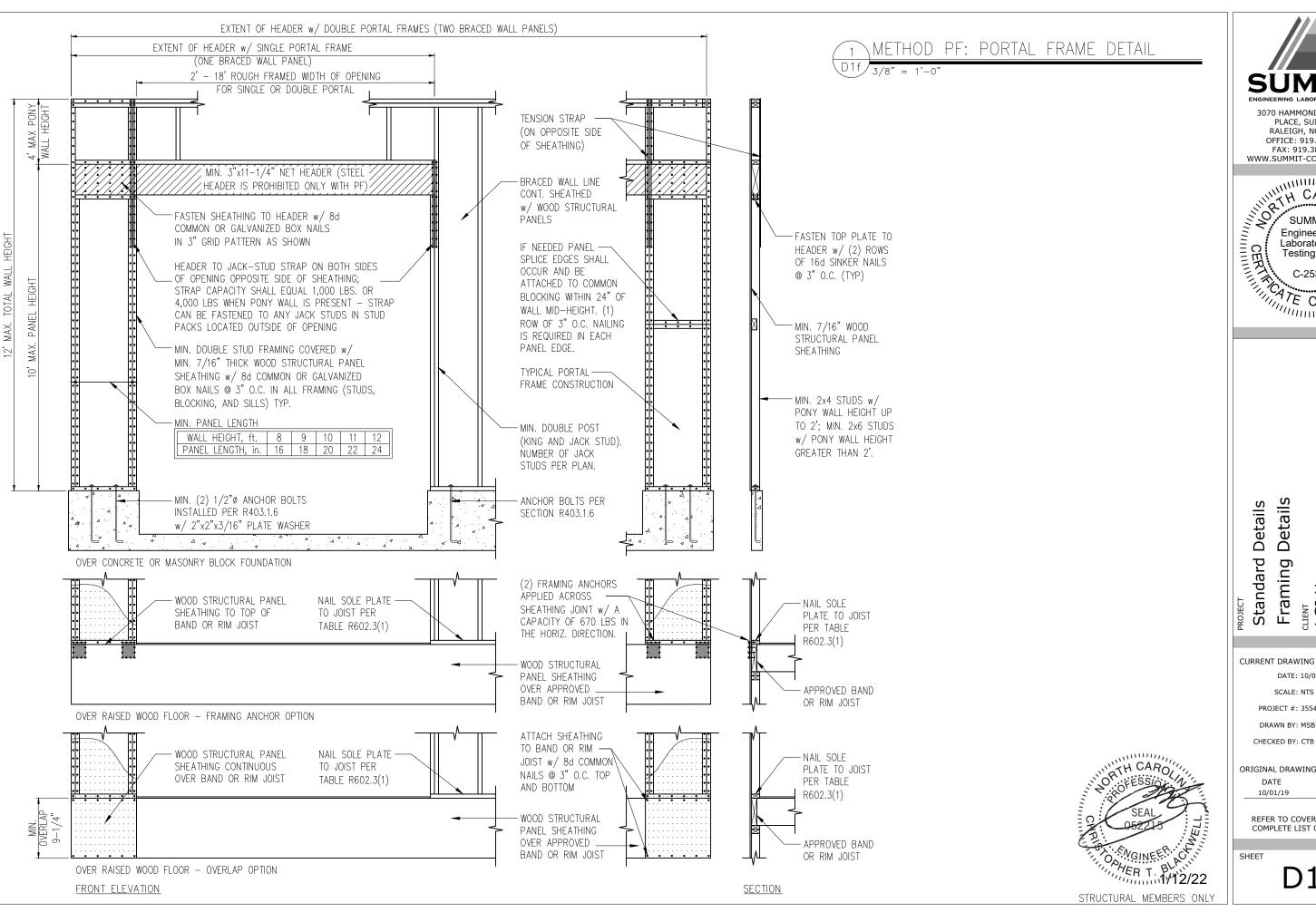
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SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.





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ian Drive C 29720

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10/01/19

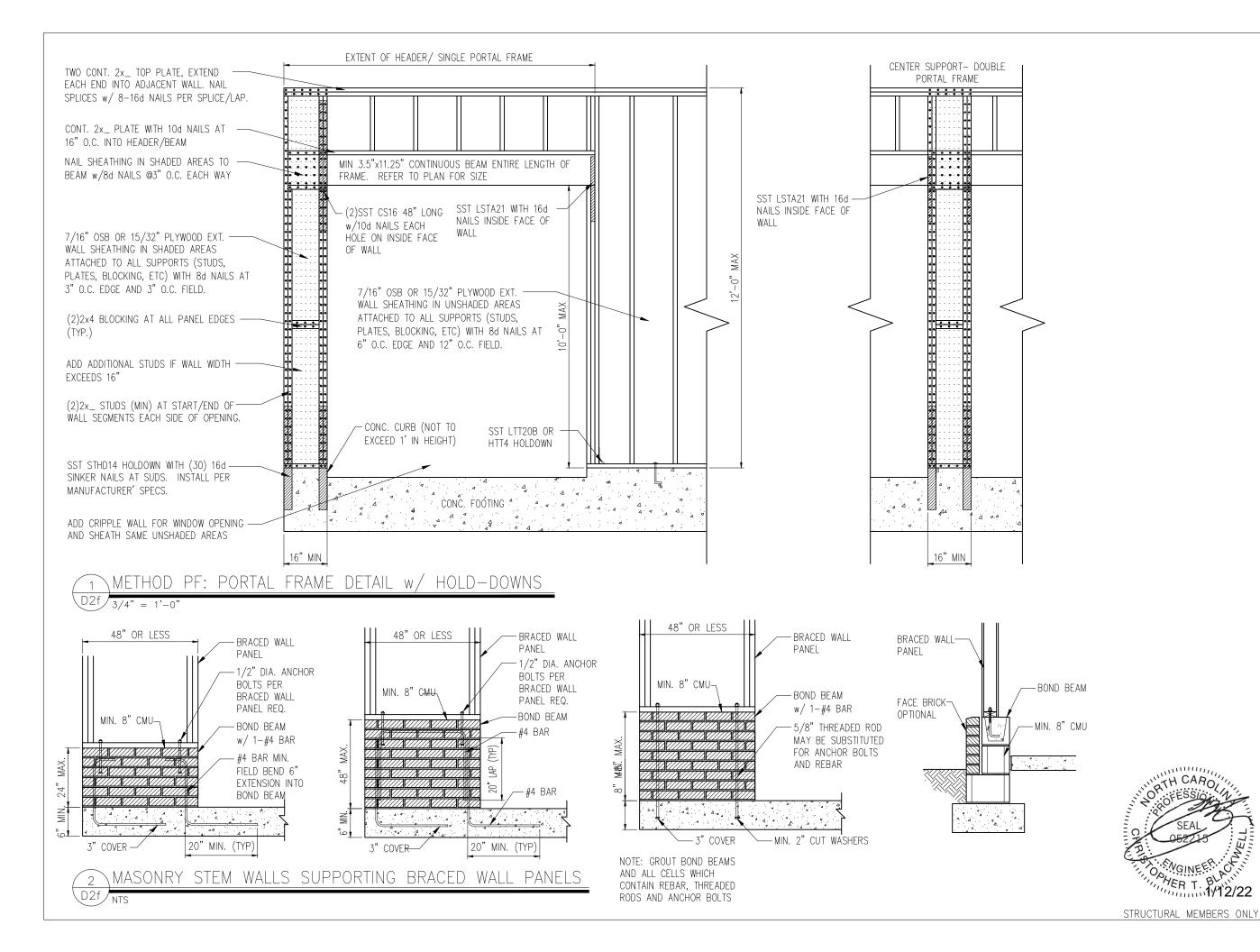
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PROJECT #

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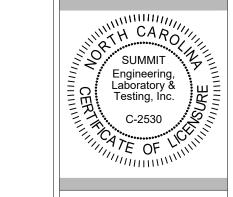
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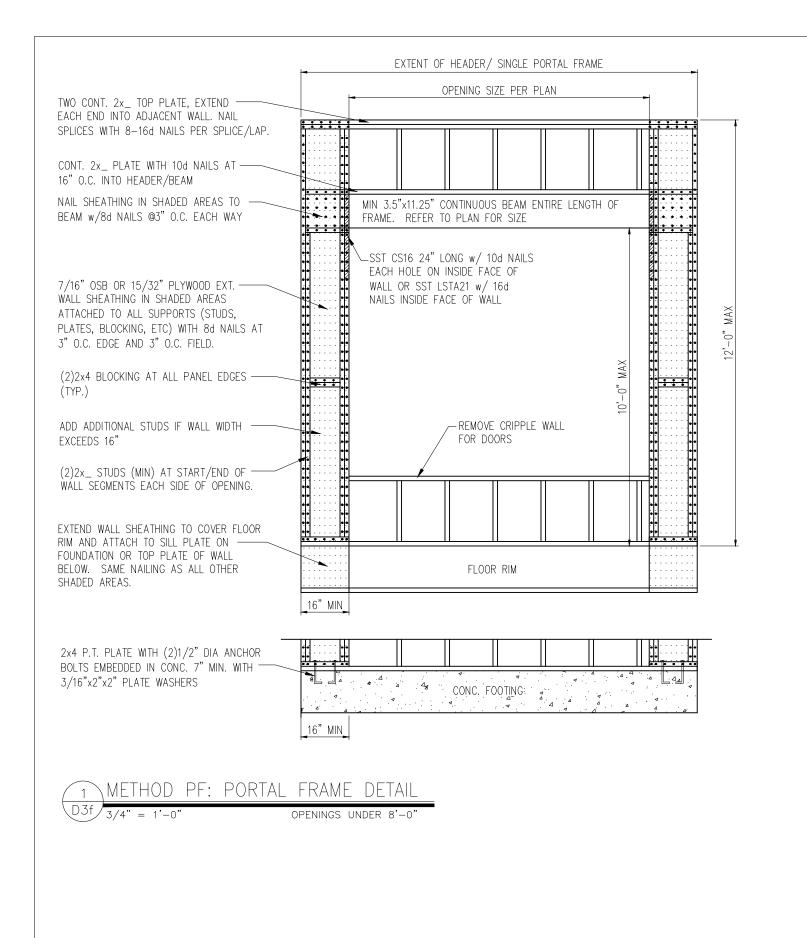
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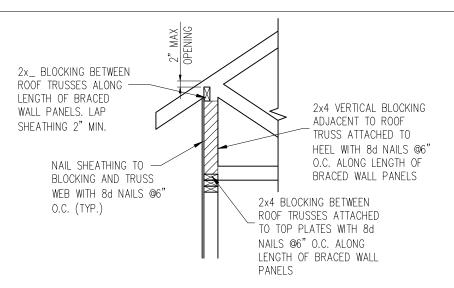
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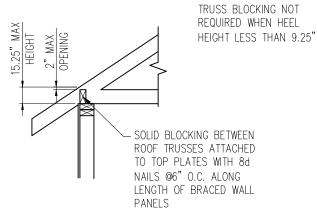
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D2f





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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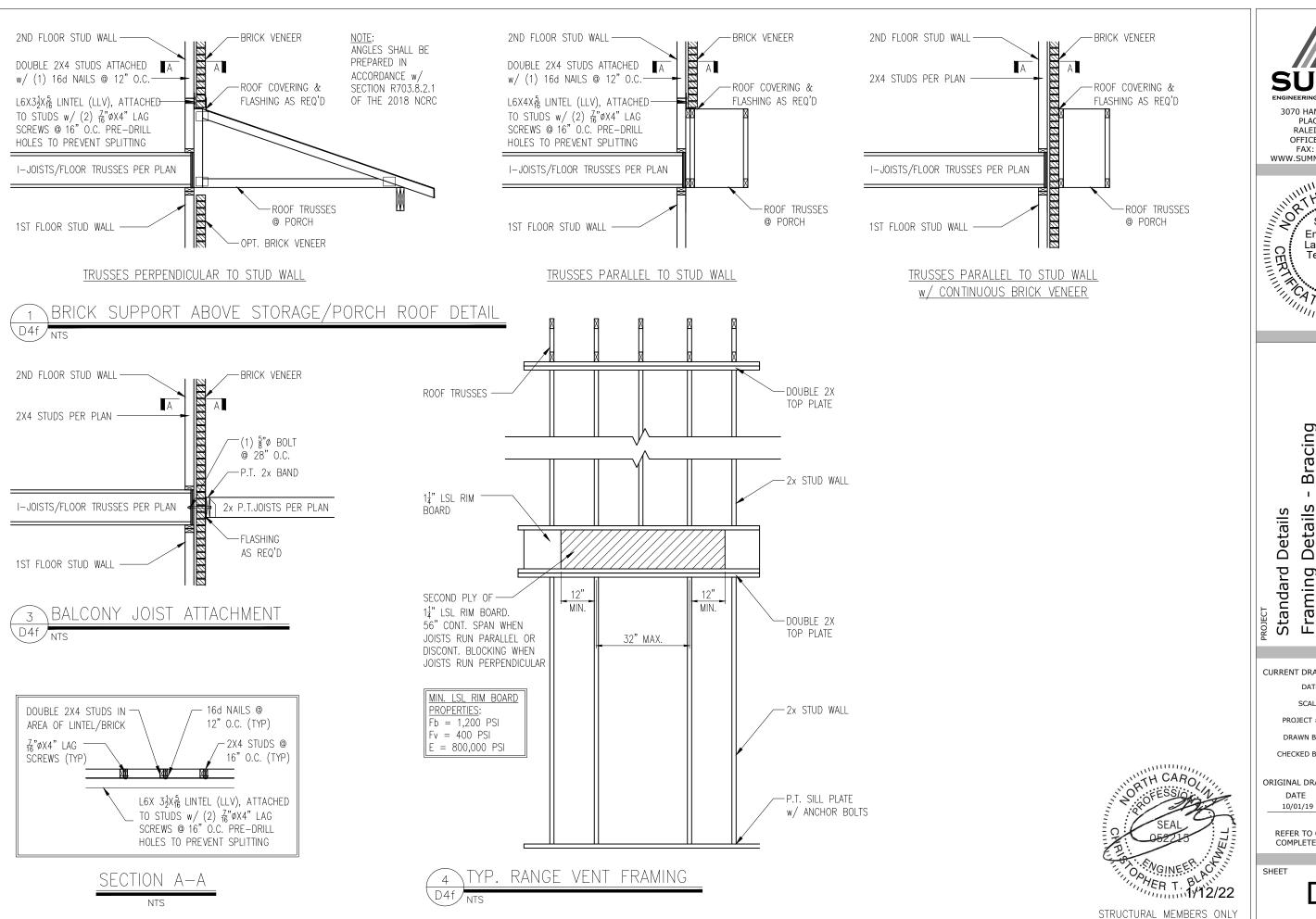
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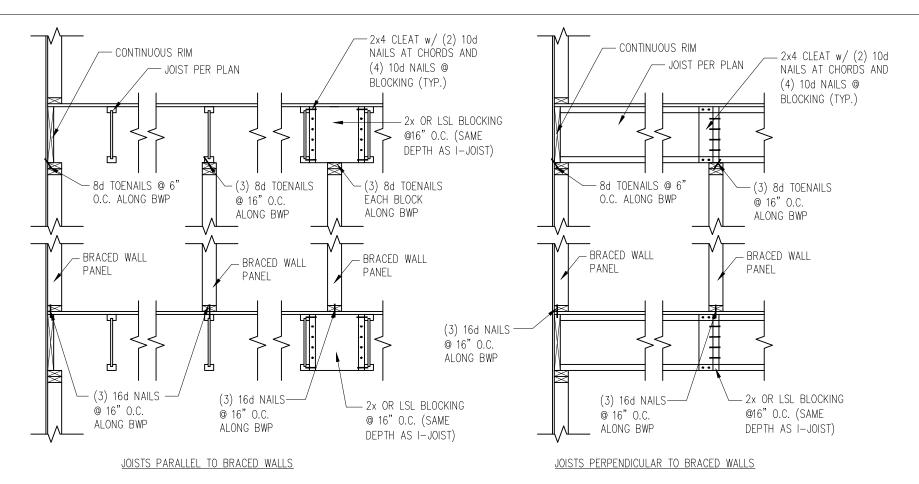
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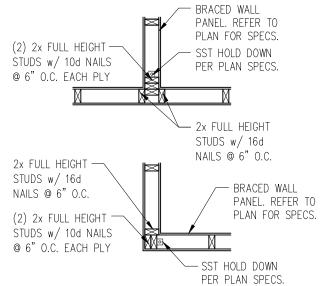
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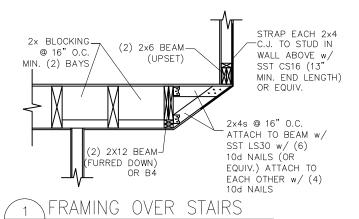
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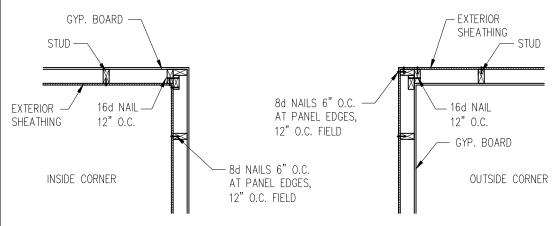


TYP. HOLD DOWN DETAIL D5f 1" = 1'-0"

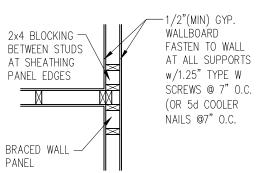


TYP. WALL PANEL TO FLOOR/CEILING CONNECTION

D5f 1" = 1'-0"







3 INTERIOR 3-STUD WALL INTERSECTION



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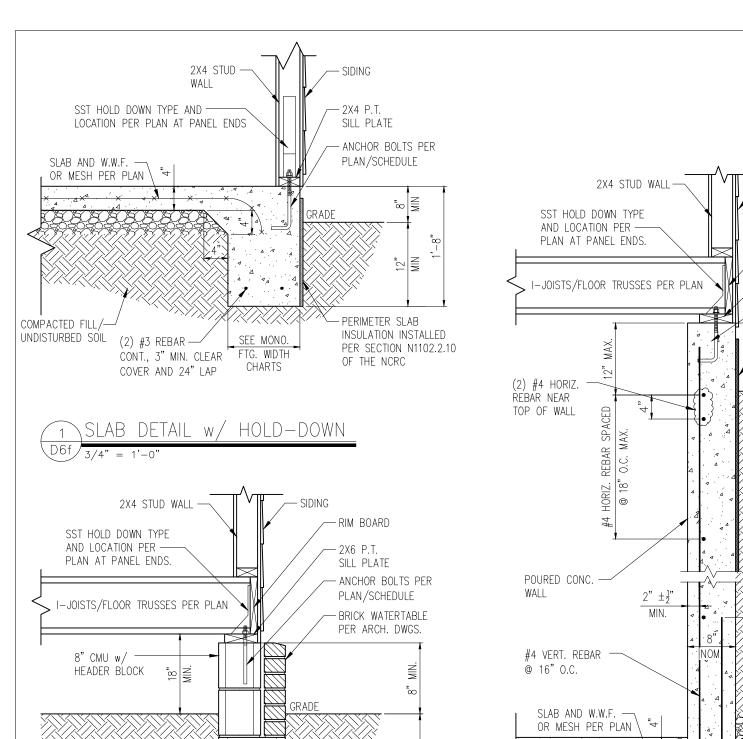
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SHEET

D5f



(2) #3 REBAR

CONT., 3" MIN. CLEAR

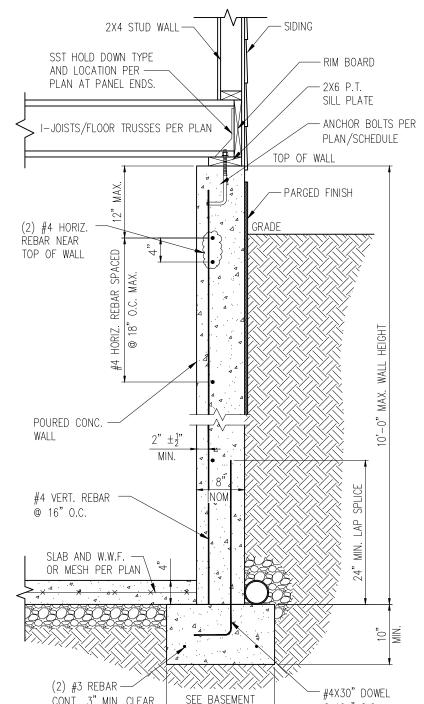
COVER AND 24" LAP

SEE CRAWL SPACE

FTG. WIDTH CHARTS

CRAWL FOUNDATION WALL DETAIL W/ H-D

12" CMU



FTG. WIDTH CHARTS

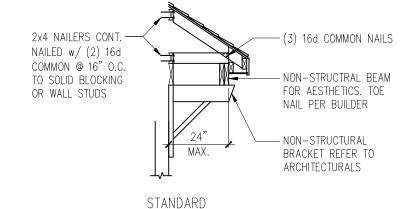
STANDARD - SIDING

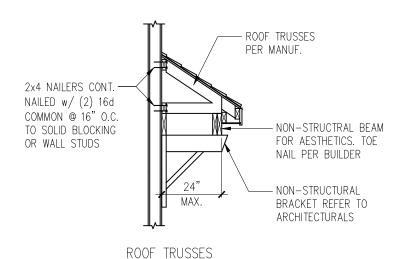
@ 16 " O.C.

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN

CONT., 3" MIN. CLEAR

COVER AND 24" LAP







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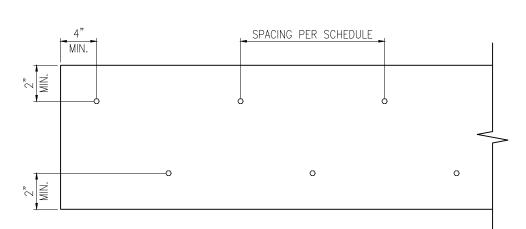
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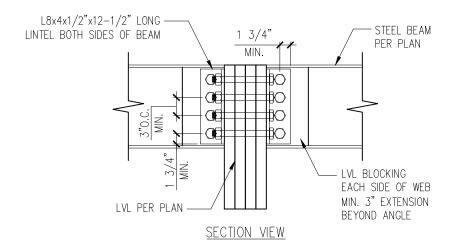
D6f

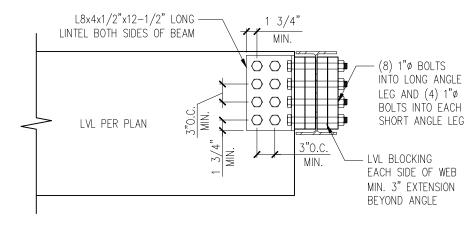




ELEVATION VIEW

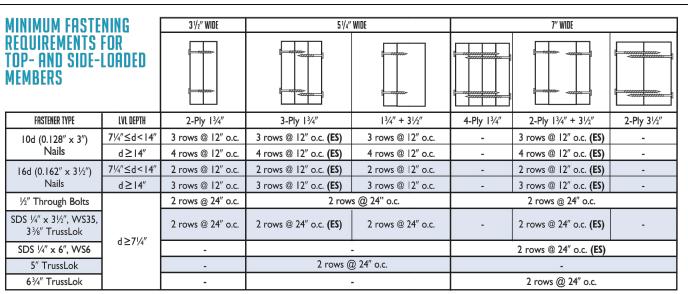
1 MULTI-PLY BEAM CONNECTION DETAIL D7f N.T.S





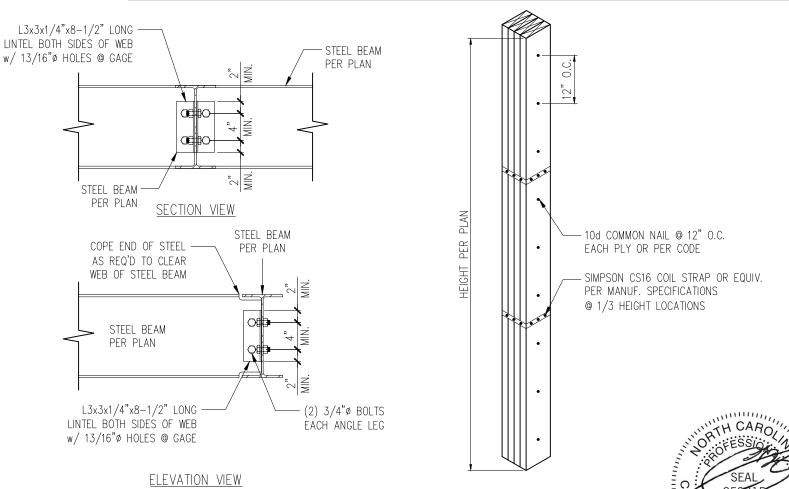
ELEVATION VIEW

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).







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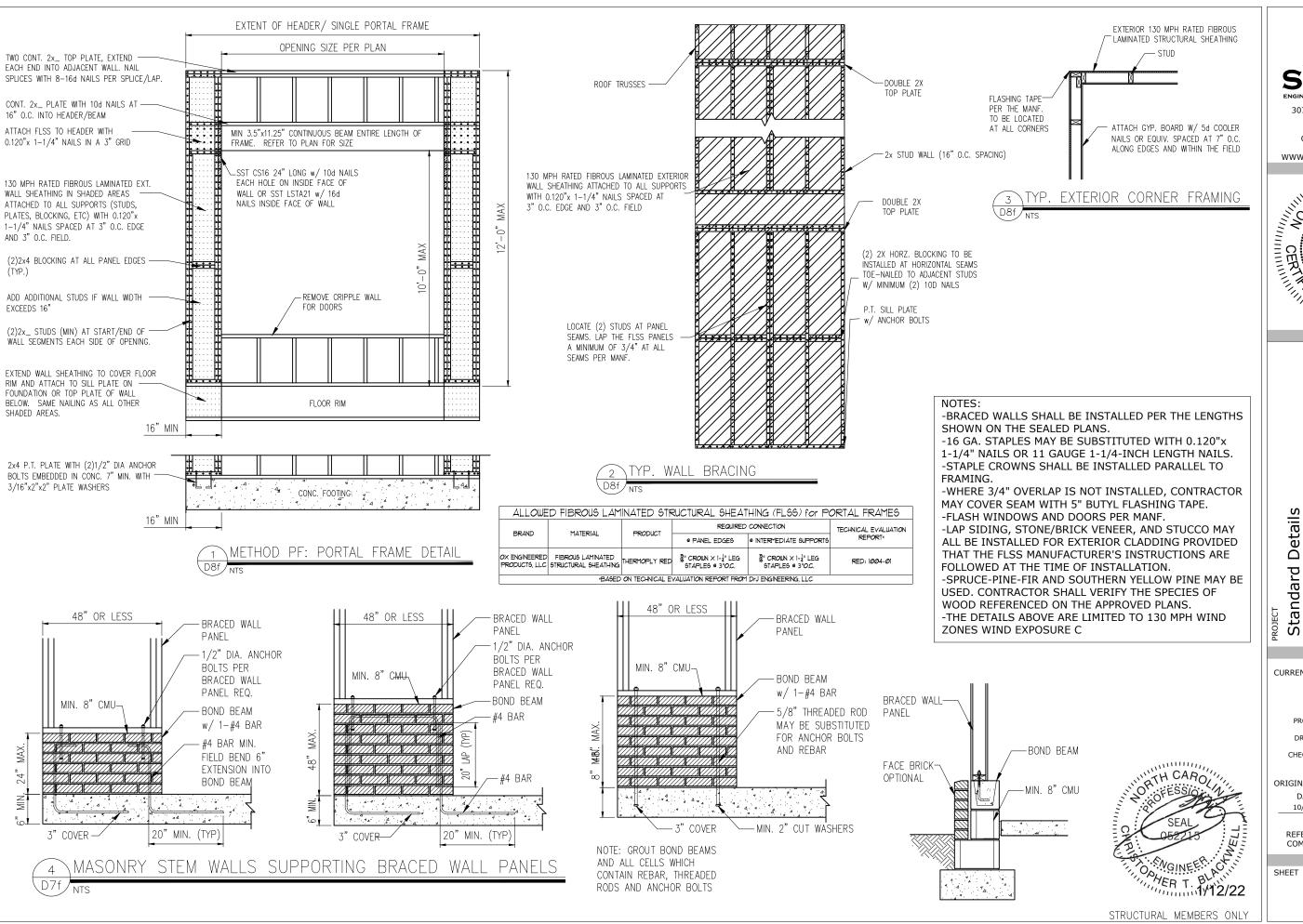
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D8f