CAROLINA

**COVER SHEET** 

A1.0



# THE ALEXANDER AT ATHERSTONE COMMUNITY

# SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 1506 sf

GARAGE = 379 sf FRONT PORCH = 30 sf

TOTAL = 1915 sf

# INDEX OF SHEETS

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FLOOR PLAN & NOTES A2.0

**EXTERIOR ELEVATIONS & NOTES** 

**EXTERIOR ELEVATIONS** 

FIRST FLOOR ELECTRICAL PLAN

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CS2 COVER SHEET (CONTINUED)

S1.0m MONO SLAB FOUNDATION

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

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

EXANDER

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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  $\ensuremath{\textcircled{@}}$  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 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

ANGIER, NC HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

CEILING: R-38
FLOOR: R-19

WALL:

SLAB:

R-15

R-10, 2FT

SQUARE FOOTAGES

FIRST FLOOR (HTD.)

GARAGE FRONT PORCH

E = 379 sf PORCH = 30 sf

= 1506 sf

TOTAL = 1915 sf

#### FLOOR PLAN LEGEND

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

#### WALL SCHEDULE

-----

FRAMED WALLS

OVERHEAD/BELOW

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

#### STAIR NOTES

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

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

#### CEILING HEIGHT NOTES

8' - 1 1/2" CEILING HEIGHTS ON FIRST FLOOR

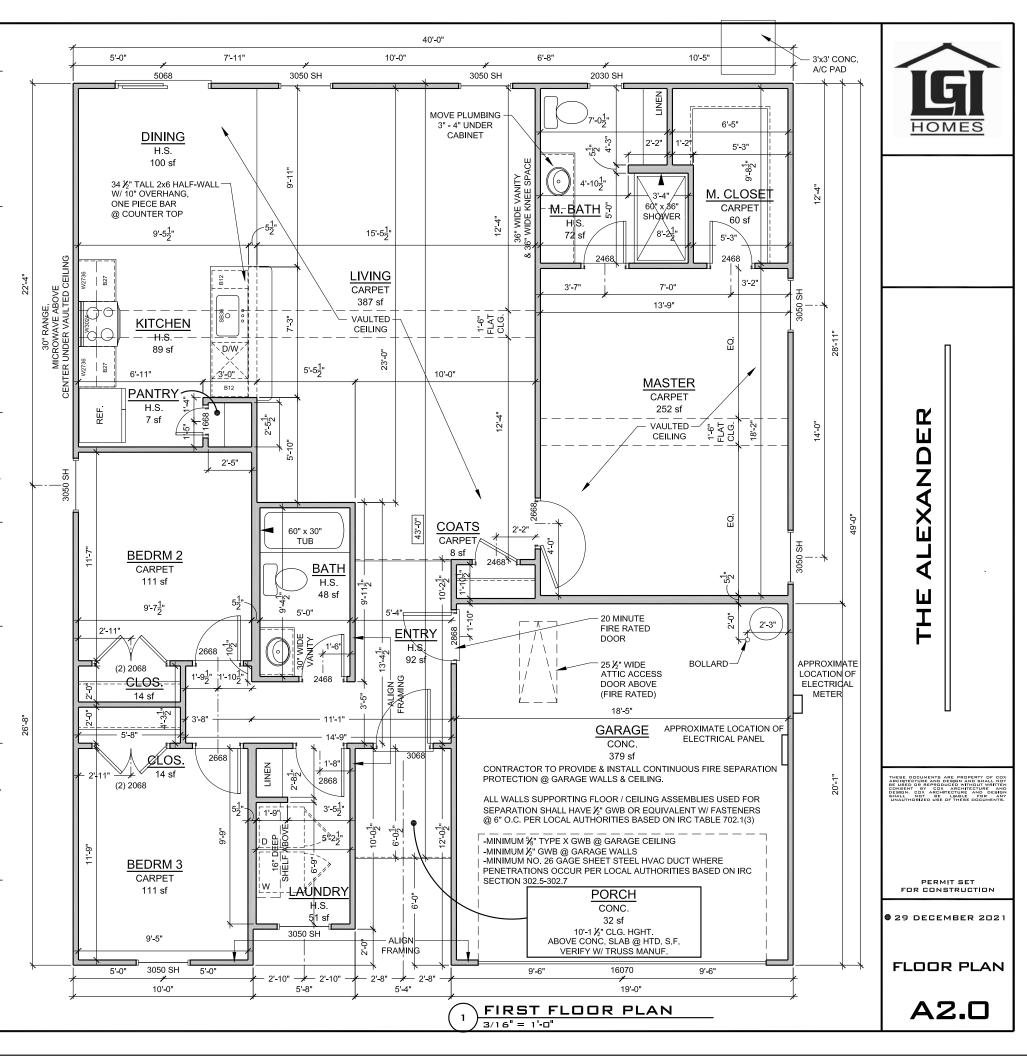
MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

#### COLUMN NOTES

COLUMNS TO BE: AFCO OR COLUMN OF EQUAL BEARING CAPACITY. (6000 # MINIMUM)
TOP CONNECTION: (2) #8 - ½" x 3" STAINLESS STEEL SCREWS PER SIDE INSERTED INTO BEAM.
BOTTOM CONNECTION: (3) UBS - #18043
BRACKETS FASTENED WITH (2) ½" x 1 ½"
SCREWS INTO COLUMN & (2) ½" x 3 ½"
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):

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 - ½" x 3" STAINLESS STEEL SCREWS PER SIDE INSERTED INTO BEAM. BOTTOM CONNECTION: (3) UBS - #18043

BRACKETS FASTENED WITH (2) ½" x 1 ½" SCREWS INTO COLUMN & (2) ½" x 3 ¾" 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  $\frac{1}{2}$ " 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

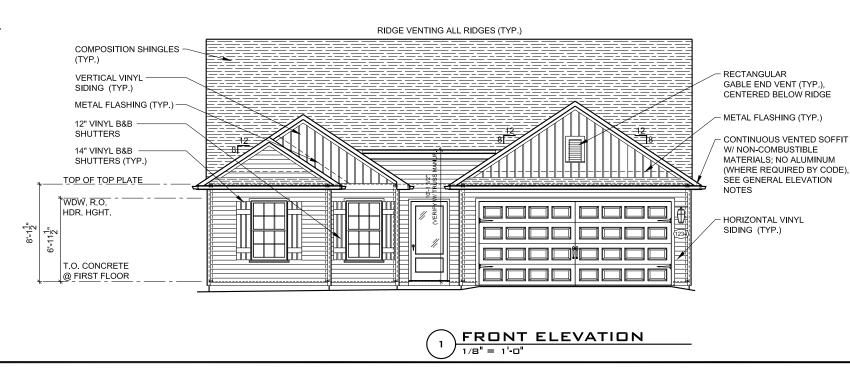
## INSULATION NOTES

INSULATION VALUES PER 2018 NCRC CH. 11 ENERGY CONSERVATION CODE

ANGIER, NC HARNETT COUNTY - CLIMATE ZONE 4A

TABLE N1102.1.2

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





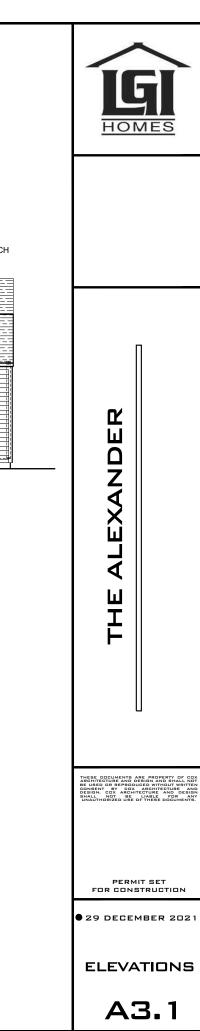
THE ALEXANDE

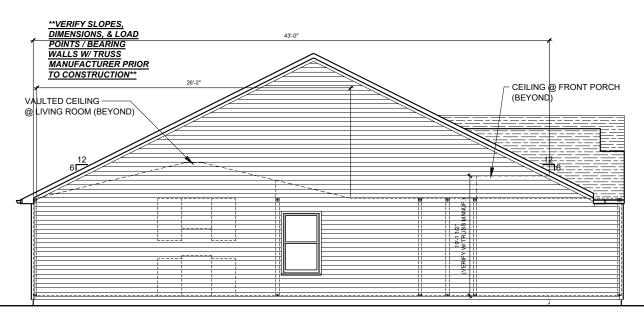
PERMIT SET FOR CONSTRUCTION

● 29 DECEMBER 2021

**ELEVATIONS** 

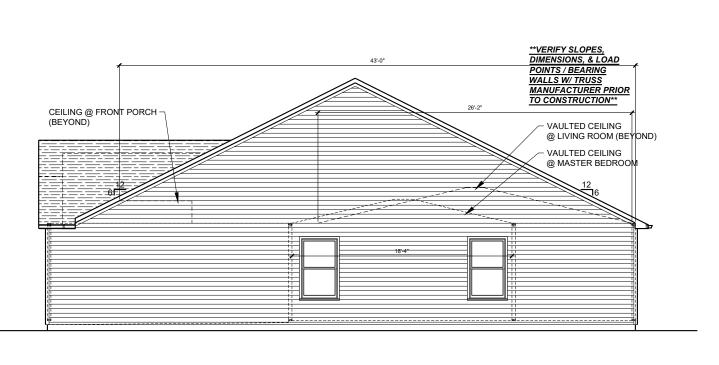
A3.0





LEFT SIDE ELEVATION

1/8" = 1'-0"



**3** 

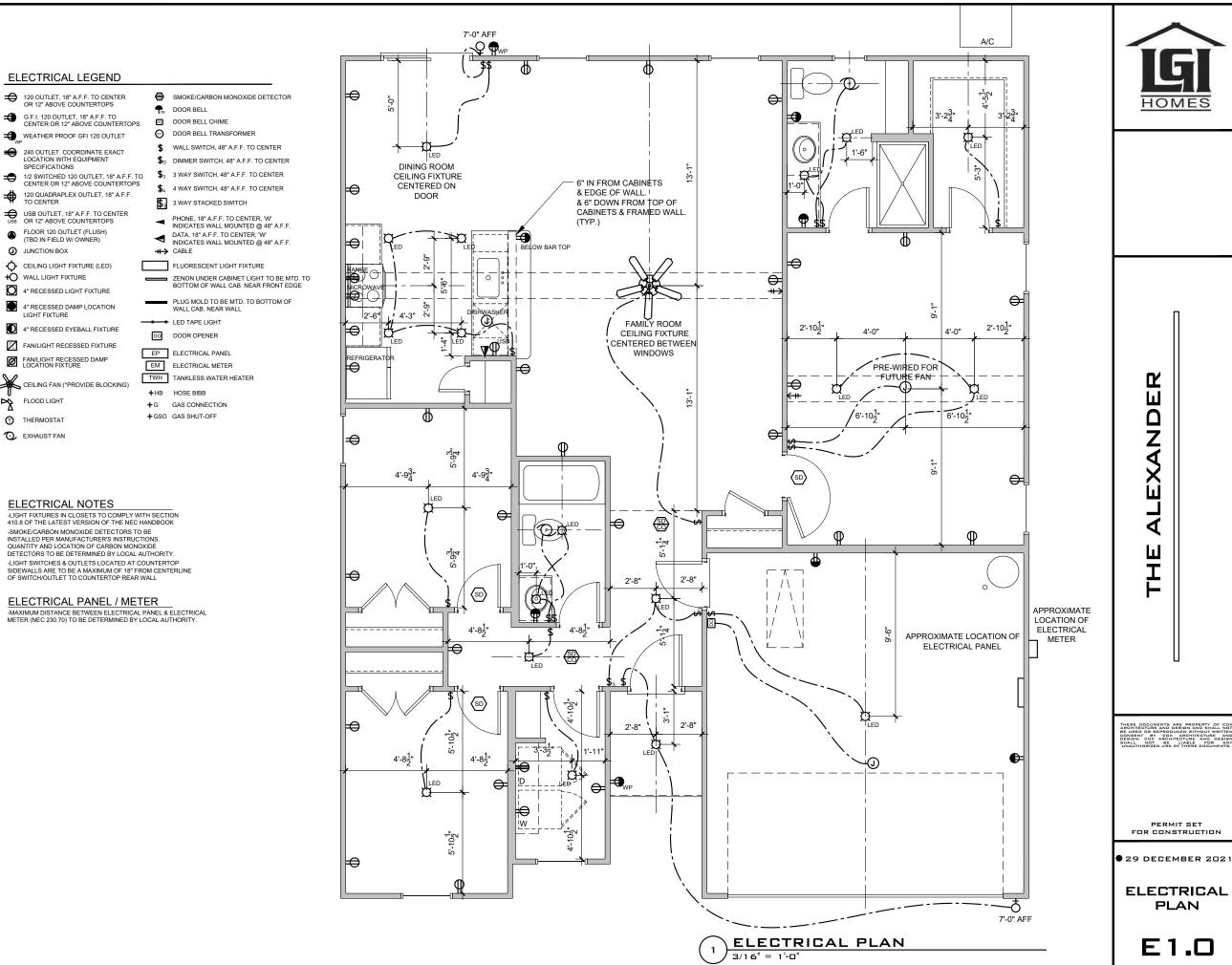
1/8" = 1'-0"

RIGHT SIDE ELEVATION



REAR ELEVATION

1/8" = 1'-0"



## **ELECTRICAL NOTES**

ELECTRICAL LEGEND 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS

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

WEATHER PROOF GFI 120 OUTLET

240 OUTLET. COORDINATE EXACT LOCATION WITH EQUIPMENT SPECIFICATIONS

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

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

FLOOR 120 OUTLET (FLUSH)

4" RECESSED LIGHT FIXTURE

4" RECESSED DAMP LOCATION

4" RECESSED EYEBALL FIXTURE

FAN/LIGHT RECESSED FIXTURE

CEILING FAN (\*PROVIDE BLOCKING)

FAN/LIGHT RECESSED DAMP LOCATION FIXTURE

FLOOD LIGHT

THERMOSTAT EXHAUST FAN

JUNCTION BOX CEILING LIGHT FIXTURE (LED)

WALL LIGHT FIXTURE

(TBD IN FIELD W/ OWNER)

-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 7-10: Minimum Design Loads for Buildings and Other Structures

# Design Loads:

igri Li	Caus:		
~ 1.	Roof	Live Loads	
	1.1.	Conventional 2x	20 PSF
	1.2.	Truss	20 PSF
		1.2.1. Attic Truss	60 PSF
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truss	20 PSF
3.			
	3.1.	Importance Factor	1.0
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
	4.3.	Decks	40 PSF
	4.4.	Passenger Garage	50 PSF
5.	Floor	Dead Loads	
	5.1.	Conventional 2x	10 PSF
	5.2.	i-Joist	15 PSF
	5.3.	Floor Truss	15 PSF
6.	Ultima	te Design Wind Speed (3 sec. gust)	130 MPH
		Exposure	
	6.2.	Importance Factor	1.0
		Wind Base Shear	
		6.3.l. VX =	

'		~		
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
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

8.1.	5ite Class	レ
8.2.	Design Category	С
8.3.	Importance Factor	1.0
8.4.	Seismic Use Group	1

8.5. Spectral Response Acceleration

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

8.6. Seismic Base Shear

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

8.6.1. VX = 8.6.2.Vy =

8.7. Basic Structural System (check one)

Bearing WallBuilding 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. No. Lateral Design Control: Seismic  $\square$  Wind  $\boxtimes$ 

SUMMIT ENGINEERING LABORATORY TESTING

STRUCTURAL PLANS PREPARED FOR:

# **ALEXANDER**

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	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 4 Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by LGI HOMES. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

## SHEET LIST:

Sheet No.	Descripti <i>o</i> n
CS1	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
S1.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
S1.0c	Crawl Space Foundation
S1.Ø.4b	4-Sides Brick Crawl Space Foundation
S1.0b	Basement Foundation
S2.Ø	Basement Framing Plan
\$3.Ø	First Floor Framing Plan
54.0	Second Floor Framing Plan
S5.Ø	Roof Framing Plan
S6.Ø	Basement Bracing Plan
S7.Ø	First Floor Bracing Plan
58.0	Second Floor Bracing Plan

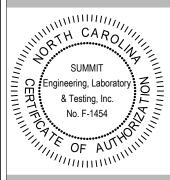
Revision No.	Date	Project No.	Description
0	1/30/19	26545	Original Engineering
1	1/7/21	26545R1	Add stick framed roof option
2	2/2/21		Revised to have thermo ply bracing
3	10/18/21		Revised per new architecturals
4	12/29/21		Updated Seal



STRUCTURAL MEMBERS ONLY



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



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

CURRENT DRAWING

ALEXANDER (RH)

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

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.

#### FOUND ATIONS

- 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.
- 4. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
  5. Excavations of footings shall be lined temporarily with a 6 mil
- 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

- I. 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.
- 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.
- IO. 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 CIllo, any local building code requirements, and shall meet or exceed the current industry standard.
- 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 corner 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.

#### 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 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.
- Lag screws shall conform to ANSI/ASME standard BI82,1-1981. 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 IOd nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 10d nails a 24" O.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, piping, 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."
- 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.
- 5. 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 1/8<sup>ii</sup> 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.
- 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

Coversheet

ALEXANDER (RH)

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

26545

PROJECT #

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

C. IEE

CS2

STRUCTURAL MEMBERS ONLY

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#### FOUNDATION NOTES

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE W CHAPTER 4 OF THE 20% NORTH CAROLINA RESIDENTIAL BUILDING CODE W ALL LOCAL AMENDMENTS. STRUCTURAL CONCRETE TO BE F. 3000 PGI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 38.

  COOTINGS TO BE PLACED ON NODSTRURED EARTH, BEARING A INTIMUM OF 12" BELOU ADJACENT ENIGHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE REPORTED TRAINING TO BE THE CODE REPORTED THE CODE REPORTED TRAINING TO BE THE CODE REPORTED THE CODE REPORTED TRAINING THE CODE REPORTED THE CODE REPORT
- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE 
  BINORCETEM OFFICIAL.
  FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000
  PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERETYING THE SUITABILITY OF 
  THE STE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
  FOOTINGS AND PIERS SHALL BE CENTIFEED UNDER THEIR RESPECTIVE BLETHENTS.
  FROVIDE 2" INNIMIT FOOTING PROJECTION FROM THE FACE OF MASONEY.
  MAKHAM DEPTH OF URBAL AUCED FILL ASSIST MASONEY MALLS TO BE AS 
  SPECIFIED IN SECTION RADA! OF THE 2018 NORTH CAROLINA RESIDENTIAL S.

- 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 SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE
- SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER
- OC = ON CENTER PL = POINT LOAD
- ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY
- THE REST TO BE IN THE THEORY AND ALL TILLISTERS TO BE 3 NO THEORY TYPICAL, (MISO)

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

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

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS, ADDITIONAL INFORMATION PER SECTION R6/02/0/8 AND FIGURE R6/02/0/1 OF THE 2015 IRC.

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

NOTE: À 4° CRUSHED STONE BASE COURSE IS NOT REQUIRED UNEN SLAB IS INSTALLED ON UELL-DRAINEO 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.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

SIDING VENEER 16"x2Ø" DP Dlm CONC. LUG FTG. (TYP.) BRICK VENEER: 21"x20" DP CONC. LUG Dlm Dim **`**-�-\ Dlm 21'-3<sup>1</sup>" 16"x13.5" DP LUG FTG. (TYP @ GARAGE INTERIOR) (2 (D2m) D2m ⑧ 12"x10" DP CONT. 0 CONC. FTG. (TYP 6 PORCH) 2 3 \ Dlm √Dlm 1'-41/2" 10'-0" 16'-3'

ALL ELEVATIONS - ROOF TRUSS ROOFS

FOUNDATION SCHEDULE						
TAG	DESCRIPTION	REBAR REQ'D				
	16"5Q x10"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/				
<b>(</b> A)	FIBER MESH ON 6 MIL POLY ON					
	COMPACTED SOIL					
A	4" THICK POURED CON	CRETE SLAB ON				
I 👻	COMPACTED	SOII				

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



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CURRENT DRAWING

DATE: 12/29/2021

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Monolithic

LEXANDER

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

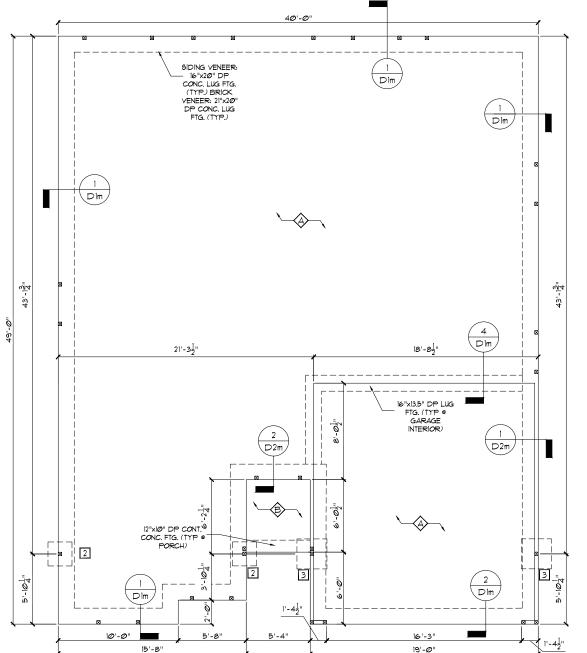
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#### GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 70'00 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMBRIDMENTS.
  CONTRACTOR SHALL VERRY ALL DIMENSIONS 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.

- 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
- FILICE BEATS, 4-M2T IV.LS AND 3-MLT SIDE LOADED LYLS SHALL BE BOULED TOGETHER BITM IP DA THAIR BOLTS 9-RECED AZ 4º OC. (MAX 95 AGGERED OR EQUIVALENT CONNECTIONS PER DETAIL (D'IT. MN EDGE DISTANCE SHALL BE 2° AND (27 BOLTS SHALL BE LOCATED INIMIMA\* FROM EACH BOO FT HE BEAT ALL NOV.LOAD BEARNIS HEADERS SHALL BE (0° FLAT 2\*A 5°TP 9, DROPPED, NOV.LOAD BEARNIS HEADERS DEVERDING 8° 0° M INDIT MAYOR BITM MORE THAN 2° 0° C KRIPPLE BUALL ABOVE, SHALL BE (17 FLAT 2\*A 5°TP 9; DROPPED, LOADERS MOTERNISE) 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 # 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" O.C. 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX OF 16" O.C. 3. TUD STORY WALLS SHALL BE FRAMED W  $^{\circ}$ 24 STUDS @  $^{\circ}$ 20. CR  $^{\circ}$ 24 STUDS  $^{\circ}$ 6 STUDS  $^{\circ}$ 6 CD. BALLOON FRAMED W  $^{\circ}$ 24 STUDS  $^{\circ}$ 27 O.C. GR  $^{\circ}$ 26 STUDS  $^{\circ}$ 36 O.C. BALLOON FRAMED W

HORIZONTAL BLOCKING # 6'-0" OC VERTIGALLY

	LINIEL 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 #/ (2) 1/2" DIAMETER LAG
SCREUS STAGGERED AT 16" O.C. (TYP FOR OPENINGS
GREATER THAN 10"-0".
2. ALL HEADERS WHERE BRICK 15 PRESENT, TO BE () (UNO.)

SHADED WALLS INDICATED LOAD BEARING WALLS

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

NOTE:

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

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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 20% 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 RAFFIES 9: 4" OC. FOR SPANS UP TO IT-0"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IT-0"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IS-1"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IS-1"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IS-6"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IS-6"
MN 2: 26 RAFFIES 9: 4" OC. EN SPANS UP TO IS-6"
MN 2: 26 RAFFIES 9: 4" OC. EN SPANS UP TO IS-6"
MN 2: 26 RAFFIES 9: 4" OC. FOR SPANS UP TO IS-6"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
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MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES SPANL IS SECURED TO IS-1"
MN 3: 26 RAFFIES RAFFIES

(4 BALLOON FRAMED STUDS @16"O.C. w/ 2X BLOCKING 66' O.C. VERTICALLY (TYP @ VAULTED CLG.)

GIRDER TRUSS BY MANUE

ROOF TRUSSES PER MANUF.

A

-(3) (E)-

Α

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

GIRDER TRUSS BY MANUE

ROOF TRUSSES PER MANUE

TRUSS UPLIFT CONNECTOR SCHEDULE					
MAX. UPLIFT ROOF TO WALL		FLOOR TO FLOOR FLOOR TO			
600 LBS	H2.5A	PER WALL SHEATHING & FASTENERS			
1200 LBS (2) H2.5A		CSI6 (END = 11")	DTT2Z		
145Ø LBS	HT52Ø	C616 (END = 11")	DTT2Z		
2000 LBS	(2) MT52Ø	(2) C516 (END = 11")	DTT2Z		
29000 LBS	(2) HT52Ø	(2) C516 (END = 11")	HTT4		
3685 LB6	LGT3-9D62.5	MSTC52	HTT4		
I III manufact lights into the object of the fall of the					

I. ALL PRODUCTS LISTE PRODUCTS MAY BE USE 2. UPLIFT VALUES LISTE ADDITIONAL WITHDRAW

ADDITIONAL WITHORAW STRENGTH FROM REQUIRED TRIBS TO TOP PLATE
TOE MALINA FRE CHAPTER 6 OF THE NCR.

3. REFER TO TRIBS LAYOUT FER MANFACTURER FOR UPLET VALUES AND
TRIBS TO TRIBS CONNECTIONS CONNECTIONS SPECFIED BY TRIBS
MANFACTURER OVERRIDE THOSE LISTED ABOVE.

4. TRIBS MANFACTURER IS REPONSIBLE FOR VERIFYING CONNECTORS
6.ATIGIFES ALL TRIBS BEARING REQUIREMENTS.

5. CONTACT SHOTHIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED
THOSE LISTED ABOVE.

LIFT CONNECTOR SCHEDULE			HEADER SCHEDULE		
O WALL	FLOOR TO FLOOR	FLOOR TO FND	TAG	SIZE	JACKS (EACH END)
БА	PER WALL SHEATHING & FASTENERS		Α	(2) 2x6	(1)
2.5A	CSI6 (END = 11")	DTT2Z	В	(2) 2x8	(2)
20	CSI6 (END = II")	DTT2Z	С	(2) 2xlØ	(2)
T52Ø	(2) CSI6 (END = II")	DTT2Z	D	(2) 2x12	(2)
T52Ø	(2) CSI6 (END = 11")	HTT4	E	(2) 9-1/4" L6L/LVL	(3)
5D62.5	MSTC52	HTT4	F	(2) 11-1/8" LSL/LVL	(3)
ED ARE SIMPSON STRONG-TIE. EQUIVALENT ED PER MANUFACTURER'S SPECIFICATIONS. ED ARE FOR SYP 12 GRADE MEMBERS AND INCLUDE STRENGTH FROM REQUIRED TRUSS TO TOP PLATE			G	(3) 2x8	(2)
			н	(3) 2xlØ	(2)
			I	(3) 2xl2	(2)

NOTES:

I. HEADER SIZES SHOUN ON PLANS ARE MINIMAN, GREATER

HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.

2. ALL HEADERS TO BE DROPFED (UNC).

3. SITUD COLLIFINS NOTED ON PLAN OVERRIDE STUD COLLIFIS

LISTED ABOVE (UNC).

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

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

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

BEAM SCHEDULE		
TAG	SIZE	
ВІ	(1) 11-1/8" FLOOR JOIST OR FLOOR TRUSS	
B2	(2) II-1/8" FLOOR JOIST OR FLOOR TRUSS	
B3	(1) I4" FLOOR JOIST OR FLOOR TRUSS	
B4	(2) I4" FLOOR JOIST OR FLOOR TRUSS	
B5	(1) 9-1/4" L5L/LVL	
B6	(2) 9-1/4" L6L/LVL	
B1	(1) 11-7/8" L9L/LVL	
B8	(2) 11-7/8" L9L/LVL	
B9	(1) 14" LSL/LVL	
BIØ	(2) 14" L5L/LVL	
Bil	(2) 2xlØ	



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4

CURRENT DRAWING

Framing

Floor

First

LEXANDER

DATE: 12/29/2021

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

ORIGINAL DRAWING

DATE PROJECT # 26545

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S3.0

PORTAL FRAME PER DETAIL I/DIF ALL ELEVATIONS - ROOF TRUSSES

А

REQUIRED BRACED WALL PANEL CONNECTIONS					
		MIN.	REQUIRED CONNECTION		
METHOD	MATERIAL	THICKNESS	e PANEL EDGES	INTERMEDIATE     SUPPORTS	
C5-W5P	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.	
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	
"OR EQUIVALENT PER TABLE R102.3.5					

# 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 UP TO ISO MPH.

  REFER TO ARCHITECTURAL PLAN FOR DOORNUNDOW 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 WO FIET FOR ISOLATED PANEL METHOD AND IT FEIT FOR CONTINUOUS
  SHEATHING THEHOD WITHOUT ADDITIONAL PRISONEEMS CALCULATIONS.

  MINIMUM PANEL LENGTH SHALL BE FIET 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 HETHOD, 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.

- PRINCES, SECVE AND BELLOWING PRINCES, AND YOUR SELECTION LLLS.

  FLOORS SHALL NOT BE CANTILEYERED PLORE THAN 14" BEYOND THE POUNDATION.

  A BRACED WALL PANEL SHALL BE LOCATED WITH NO THE TO EACH BRU OF A
  BRACED WALL PANEL SHALL BE LOCATED WITH NO THE TO EACH BRU OF A
  BRACED WALL SHALL BE LOCATED WITH NO THE TO EACH BRU OF A
  ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACINS LOADS AND

  HASTORY OR CONTRETE SHY WALLS WITH A LENGTH OF BRACINS LOADS AND

  HASTORY OR CONCRETE SHY WALLS WITH A LENGTH OF 80 OR LESS

  SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH

  HOUSE ROSING OF THE 20% FIRM SHALL BUT BRACHED WALL PANEL CONNECTIONS TO ROOTS HALL BE CONSTRUCTED

  IN ACCORDANCE WITH SECTION REPOILED.

  BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN

  ACCORDANCE WITH SECTION REPOILED.

  CONTRACT WITH SECTION REPOILED.

  CONTR

- 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.

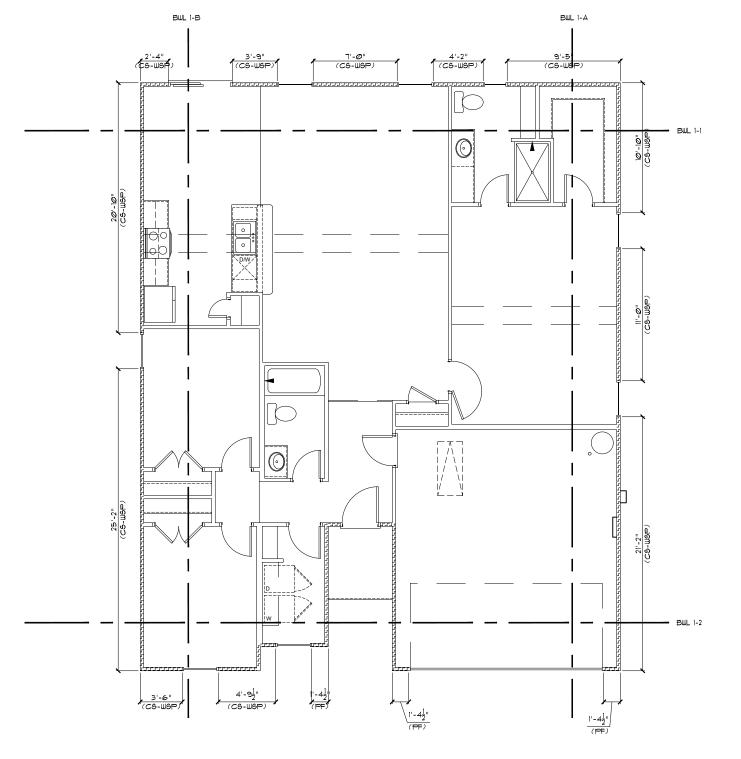
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>LGI HOMES</u> COMPLETED/REVISED ON <u>12/29/2021</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

# STRUCTURAL MEMBERS ONLY

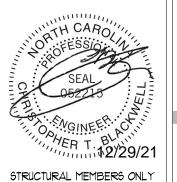
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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



ALL ELEVATIONS



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14

CURRENT DRAWING

Bracing

Floor

First

(RH)

ALEXANDER

DATE: 12/29/2021

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

PROJECT #: 1203-08R: 26545

DRAWN BY: BAF

CHECKED BY: CTB

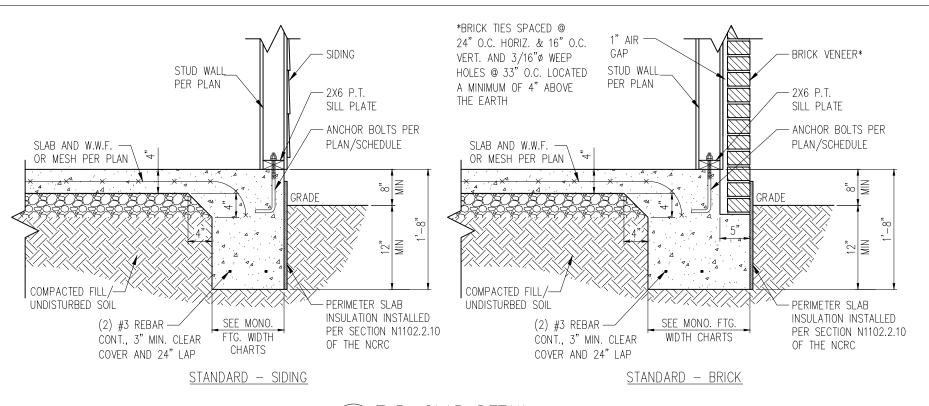
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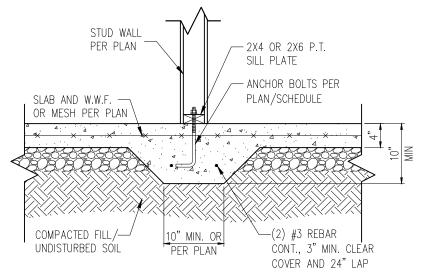
DATE

PROJECT # 26545

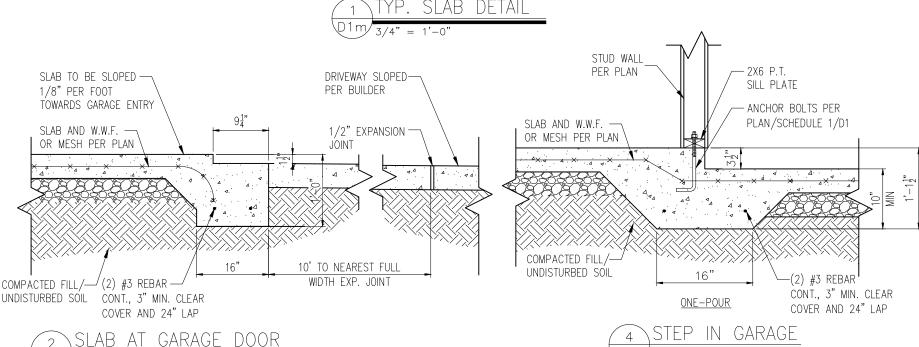
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.0





THICKENED SLAB DETAIL



WALL ANCHOR SCHEDULE

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

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

#### MONOLITHIC FOOTING WIDTH

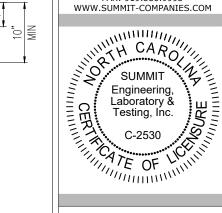
FOOTING WIDTH FOR BRICK SUPPORT

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



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

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

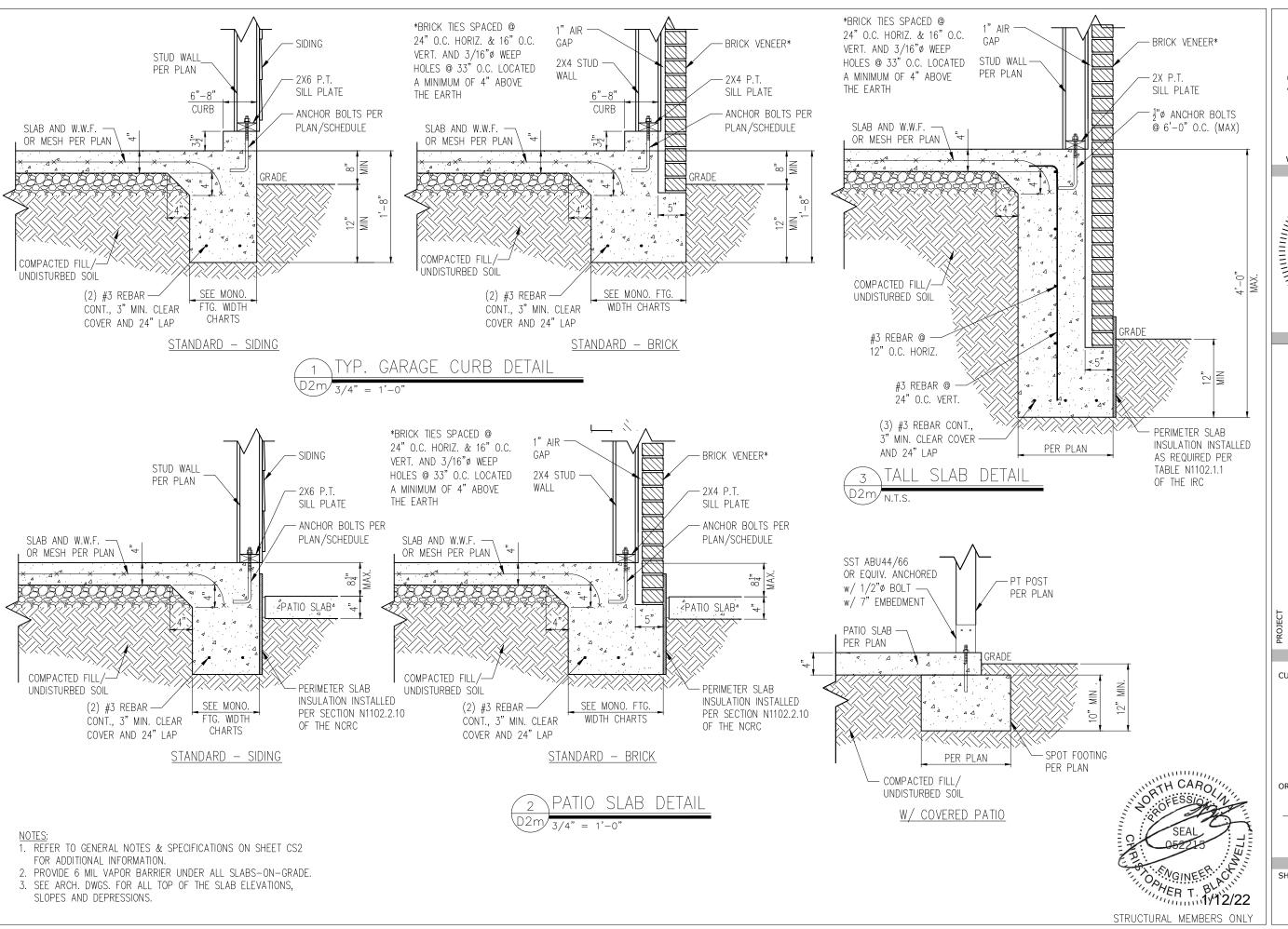
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D<sub>1</sub>m

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

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19

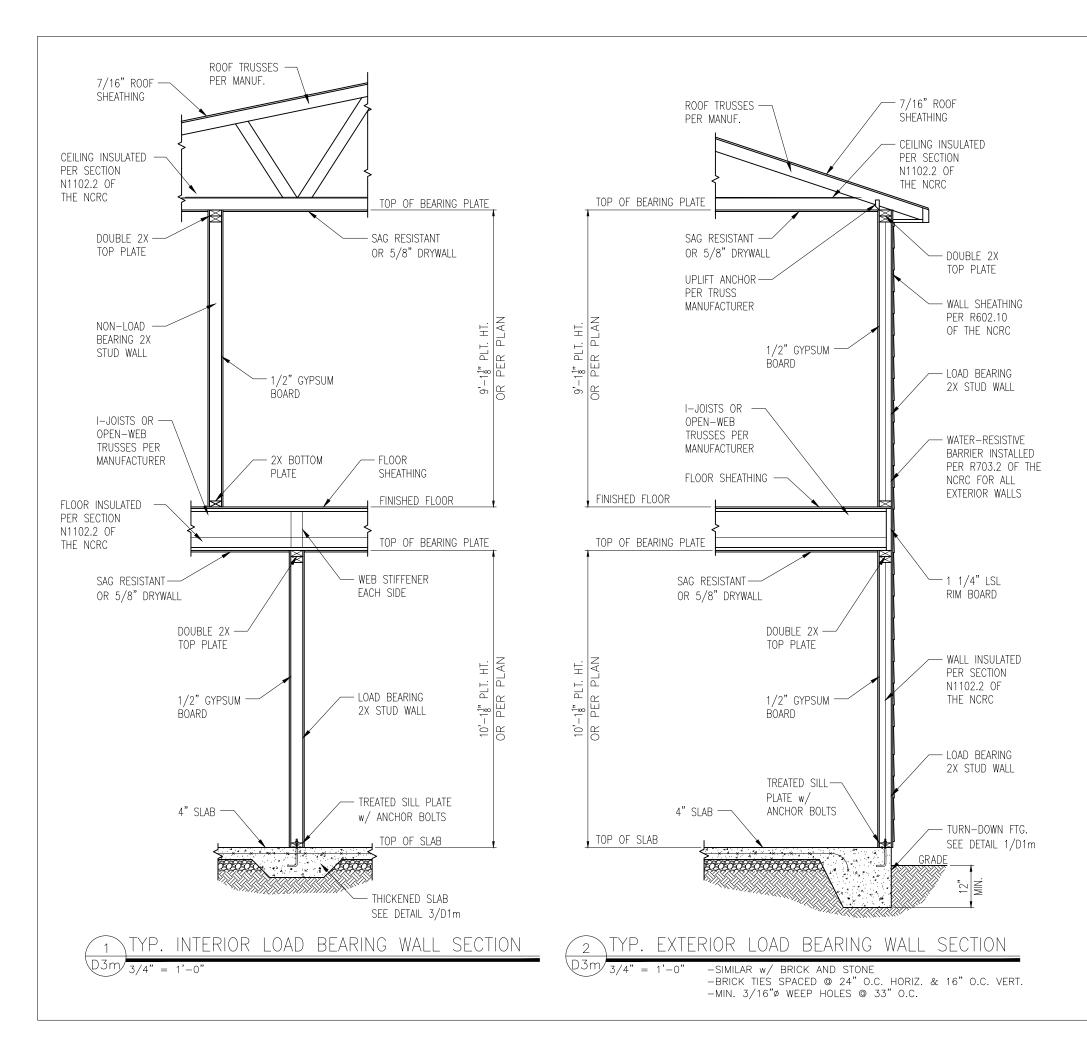
REFER TO COVER SHEET FOR A

PROJECT #

24512

COMPLETE LIST OF REVISIONS

D<sub>2</sub>m

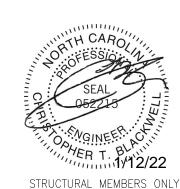




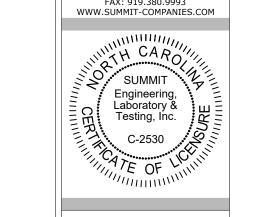
NOTES:
1. REFER TO GENERAL NOTES &

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

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SCALE: NTS

PROJECT #: 3554.T0040

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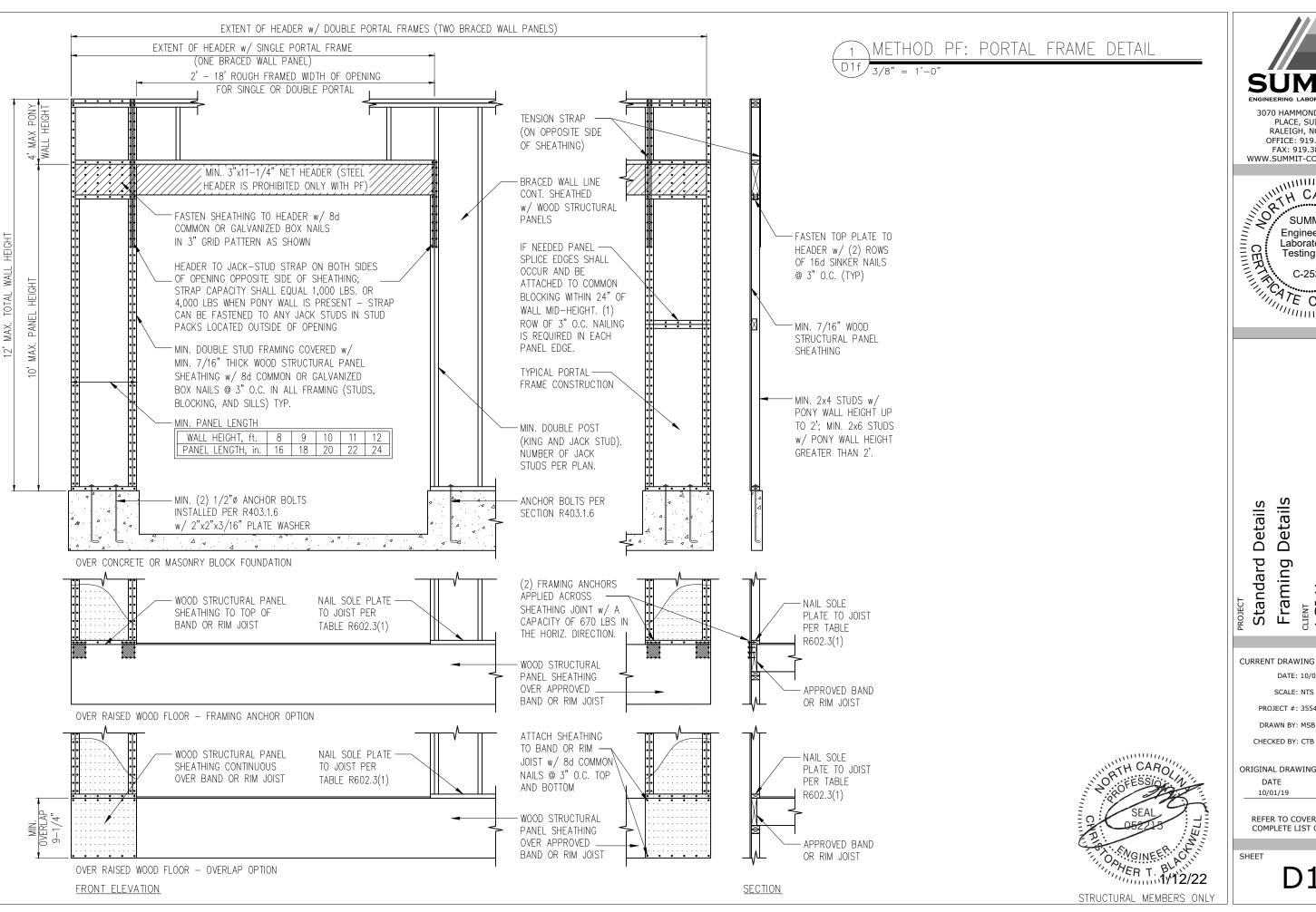
DATE 10/01/19 PROJECT # 24512

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SHEET

D<sub>3</sub>m

SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.





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

ian Drive C 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

ORIGINAL DRAWING DATE

10/01/19

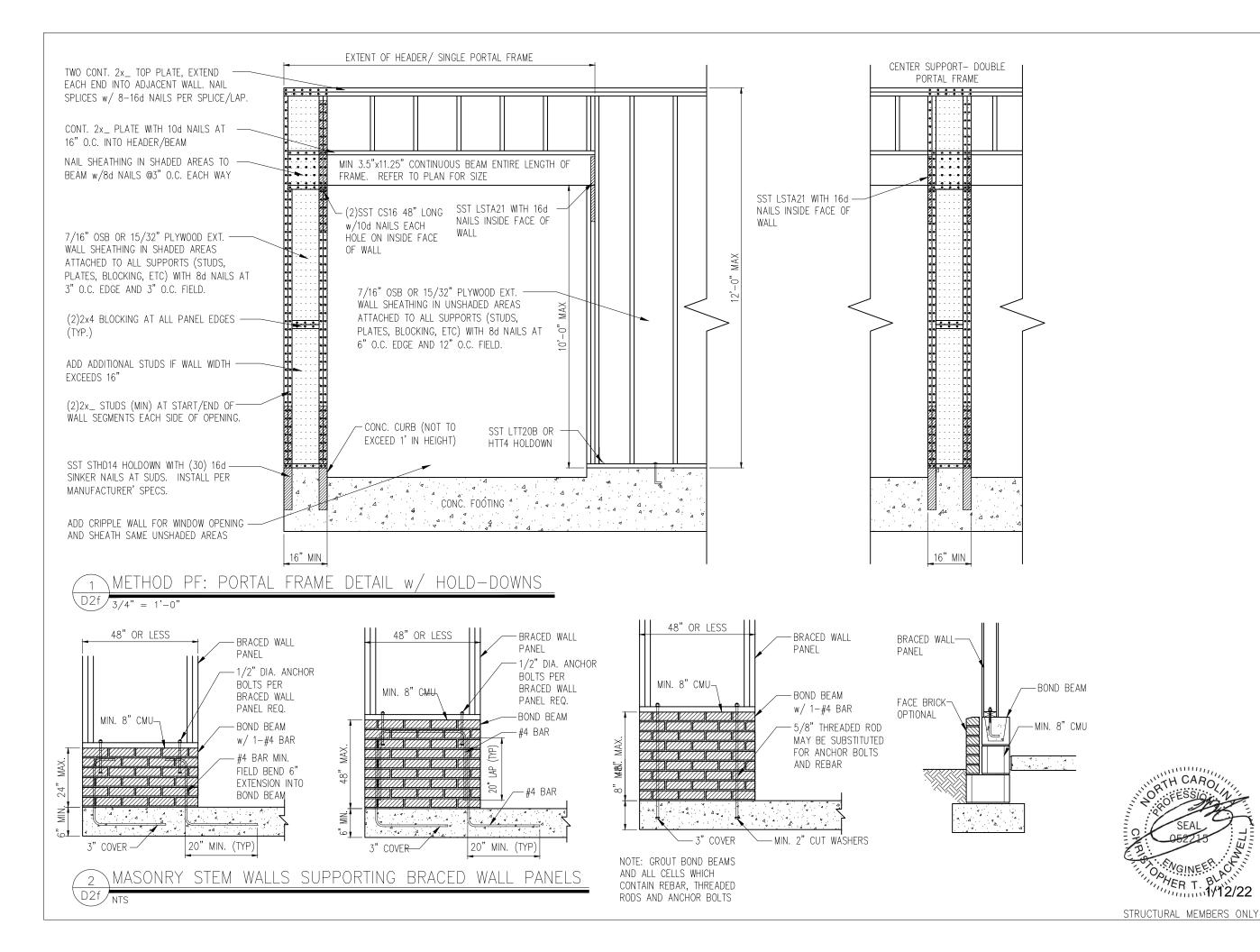
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PROJECT #

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

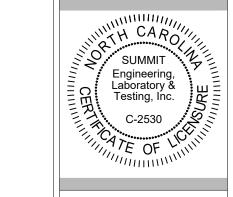
SHEET

D1f





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

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

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ORIGINAL DRAWING
DATE

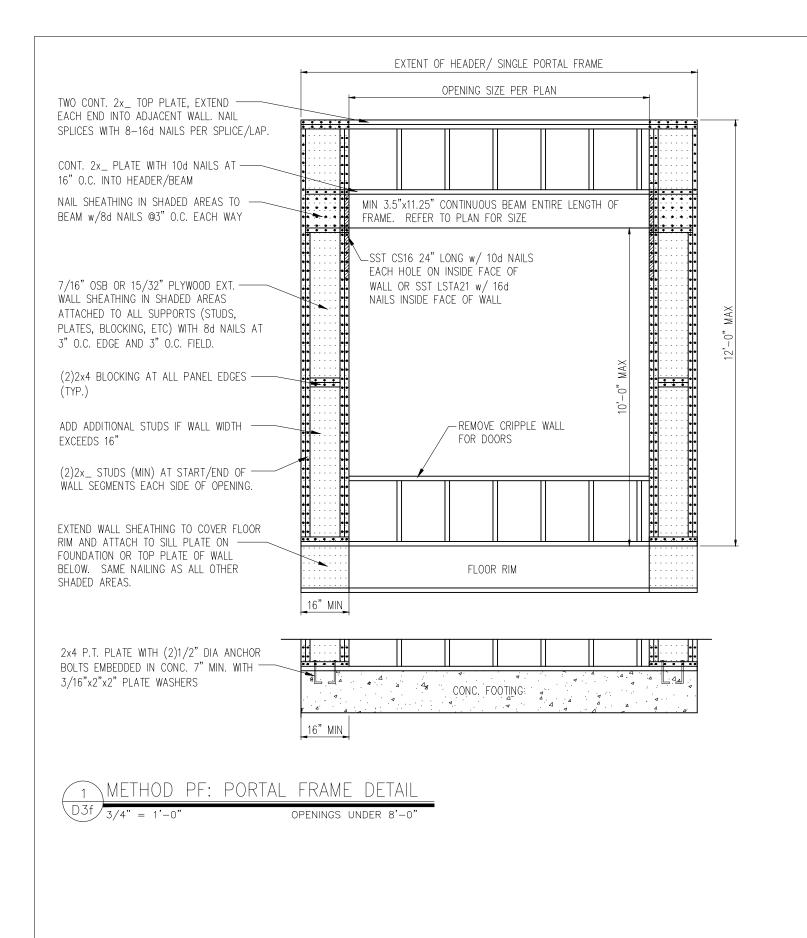
10/01/19

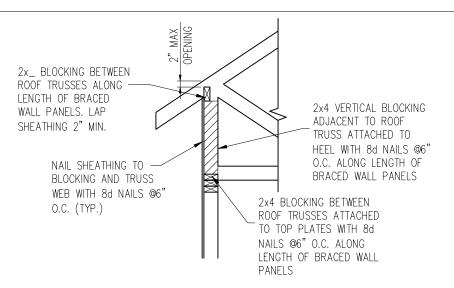
PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

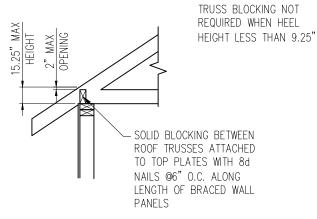
SHEET

D2f





HEEL HEIGHT BETWEEN 15.25" AND 48"



HEEL HEIGHT BETWEEN 9.25" AND 15.25"

TYP. WALL PANEL TO

2 ROOF TRUSS CONNECTION

23f (17 4: 07)





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Lancaster, SC 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

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ORIGINAL DRAWING

DATE 10/01/19

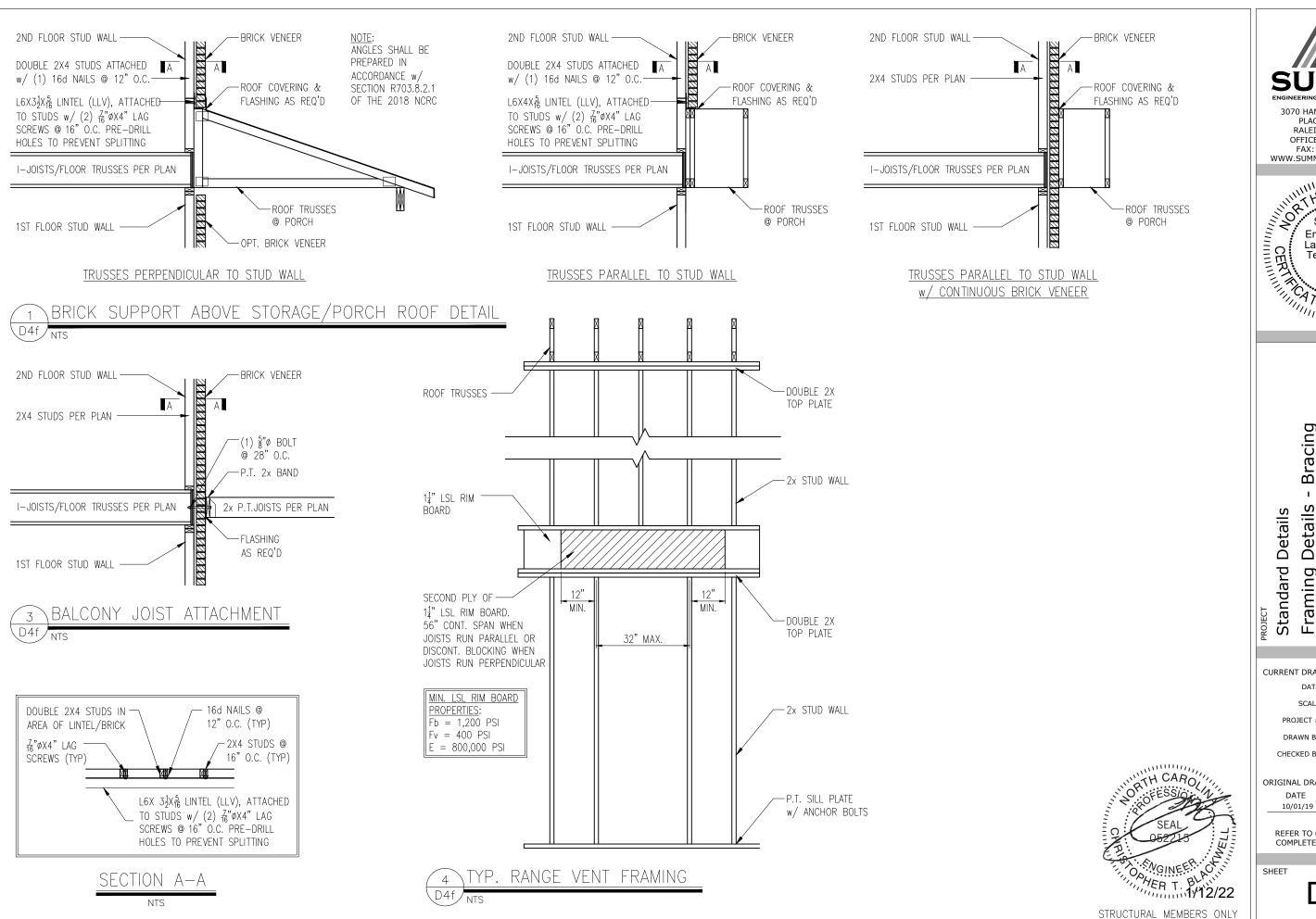
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COMPLETE LIST OF REVISIONS

SHEET

D3f





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CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

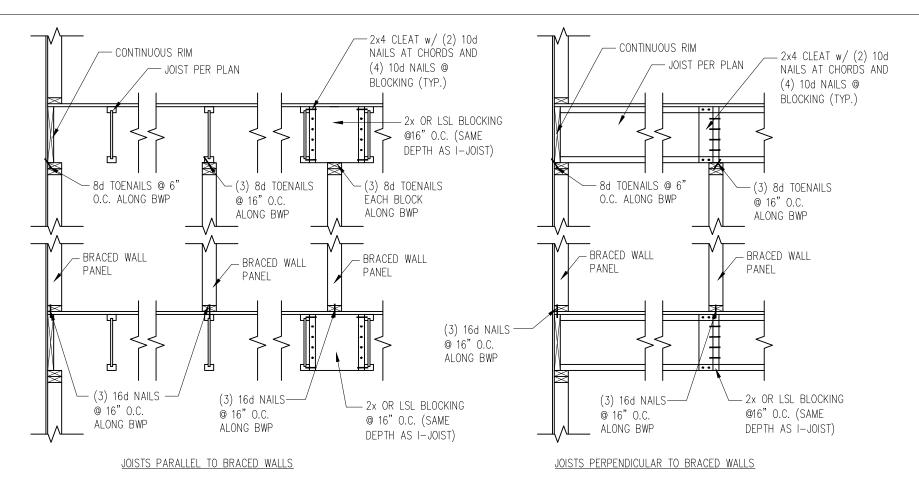
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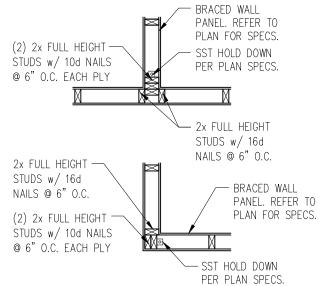
DATE

PROJECT # 24512

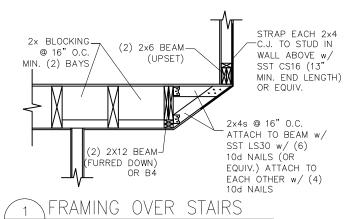
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4f



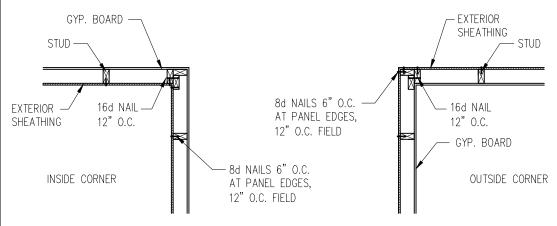


# TYP. HOLD DOWN DETAIL D5f 1" = 1'-0"

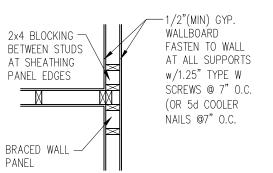


TYP. WALL PANEL TO FLOOR/CEILING CONNECTION

D5f 1" = 1'-0"







3 INTERIOR 3-STUD WALL INTERSECTION



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PROJECT #: 3554.T0040

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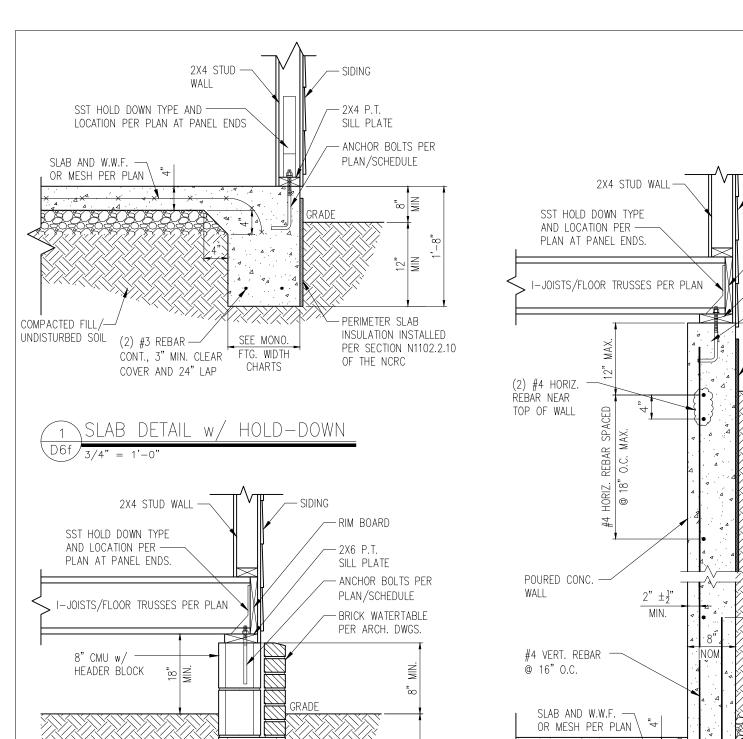
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DATE 10/01/19 PROJECT # 24512

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SHEET

D5f



(2) #3 REBAR

CONT., 3" MIN. CLEAR

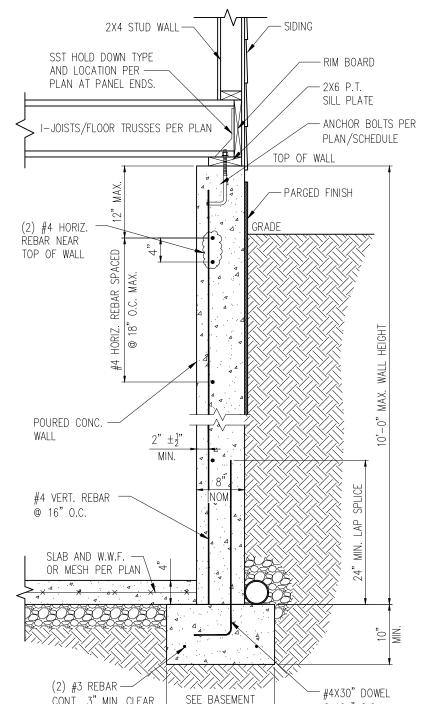
COVER AND 24" LAP

SEE CRAWL SPACE

FTG. WIDTH CHARTS

CRAWL FOUNDATION WALL DETAIL W/ H-D

12" CMU



FTG. WIDTH CHARTS

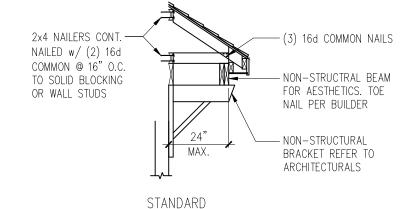
STANDARD - SIDING

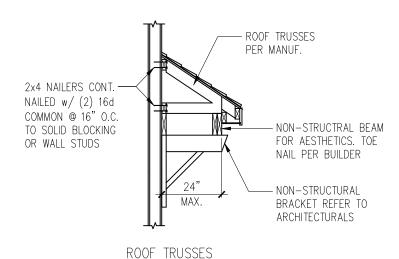
@ 16 " O.C.

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN

CONT., 3" MIN. CLEAR

COVER AND 24" LAP







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CURRENT DRAWING

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SCALE: NTS

PRO1ECT #: 3554 T0040

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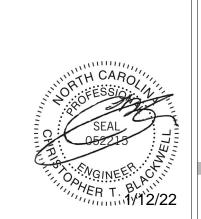
ORIGINAL DRAWING

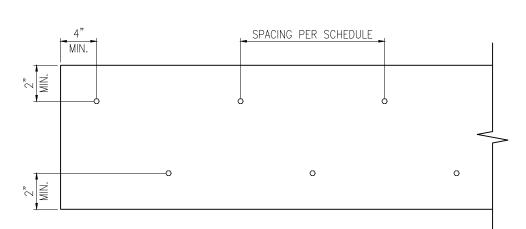
DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

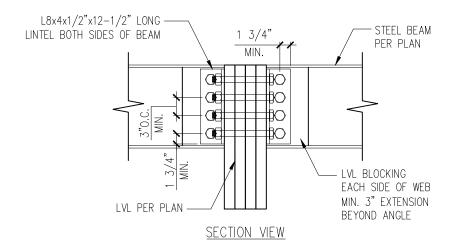
D6f

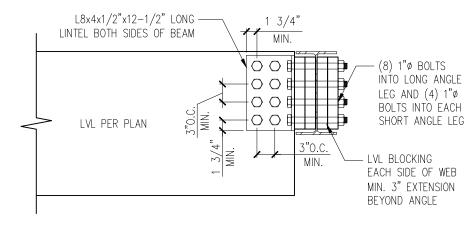




ELEVATION VIEW

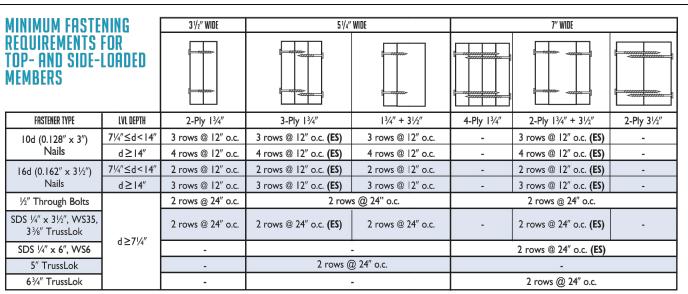
# 1 MULTI-PLY BEAM CONNECTION DETAIL D7f N.T.S





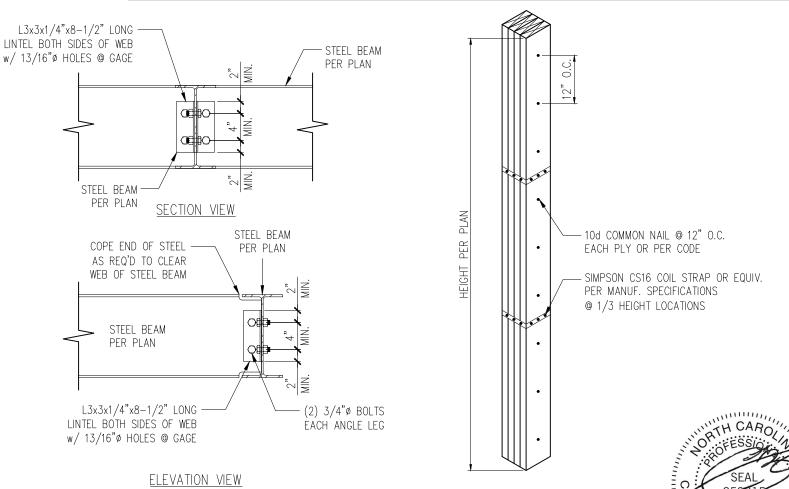
ELEVATION VIEW

2 LVL TO STEEL DETAIL D7f N.T.S



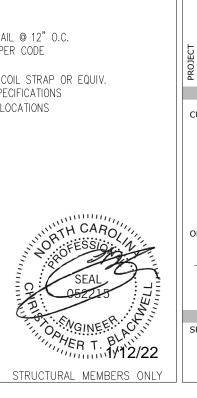
#### NOTES:

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



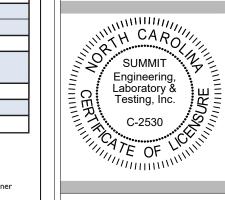








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# Standard Details Framing Details - Bracing LGI Homes 3037 Sherman Drive Lancaster, SC 29720

CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PROJECT #: 3554.T0040

DRAWN BY: MSB

CHECKED BY: CTB

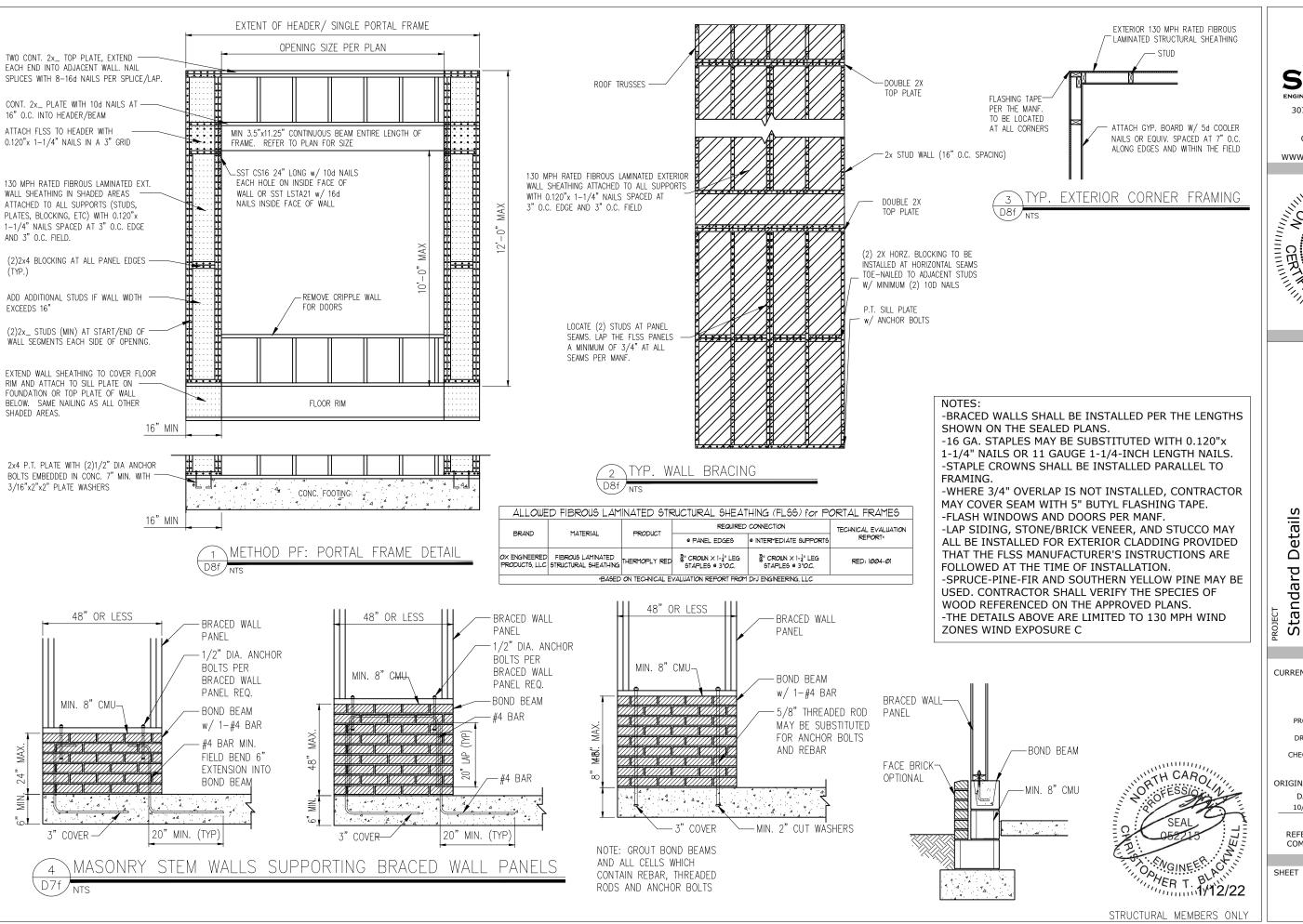
ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D7f



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CURRENT DRAWING

DATE: 10/05/21

SCALE: NTS

PRO1ECT #: 3554 T0040

DRAWN BY: MSB

CHECKED BY: CTB

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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