APPROVED

06/30/2020







THE BURKE

AT AVERY POND COMMUNITY

SQUARE FOOTAGES

FIRST FLOOR (HTD.) $= 748 \, sf$ SECOND FLOOR (HTD.) = 1167 sf1915 sf

GARAGE = 416 sf FRONT PORCH = 40 sf

TOTAL = 2371 sf

INDEX OF SHEETS

COVER SHEET A1.0 **GENERAL NOTES**

FIRST FLOOR PLAN & NOTES

SECOND FLOOR PLAN **EXTERIOR ELEVATIONS & NOTES** A3.0

EXTERIOR ELEVATIONS

E1.0 FIRST FLOOR ELECTRICAL PLAN SECOND FLOOR ELECTRICAL PLAN

ARCHITECT

COX ARCHITECTURE & DESIGN, PLLC

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

WWW.COXARCHITECTURE.COM CRAIG@COXARCHITECTURE.COM

INDEX OF SHEETS (CONT.)

COVER SHEET, SPECIFICATIONS, REVS.

COVER SHEET (CONTINUED) CS2

S1.0m MONOLITHIC SLAB FOUNDATION

STEM WALL FOUNDATION

S1.0c CRAWL FOUNDATION

FIRST FLOOR FRAMING PLAN S3.0 SECOND FLOOR FRAMING PLAN S4.0

FIRST FLOOR BRACING PLAN

S8.0 SECOND FLOOR BRACING PLAN

D1-D7 STANDARD DETAILS

GENERAL CONTRACTOR

LGI HOMES

SCOTT STERLING V.P. OF CONSTRUCTION FOR N.C. & S.C. 704-953-3824



BURKE THE

AT AVERY POND COMMUNITY QUAY VARINA, NORTH CAROLI

PERMIT SET FOR CONSTRUCTION

31 DECEMBER 2019

COVER SHEET

A1.0

ENGINEER

SUMMIT ENGINEERING

120 PENMARC DRIVE - SUITE 108 RALEIGH, NC 27603 919-308-9991



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

5/8" TYPE "X" GYPSUM BOARD CEILING WHERE LIVING IS ABOVE

20 MINUTE RATED GARAGE / HOUSE DOOR

ATTIC VENTILATION: (IRC 806)

[TOTAL ATTIC SQ. FT.] / [300] = SQ. FT. AREA REQUIRED

[LINEAR FEET OF VENT] X [18 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

SOFFIT VENT:

[LINEAR FEET OF VENT] X [7 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

EDGE SHINGLE OVER VENT:

[LINEAR FEET OF VENT] X [9 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

[LINEAR FEET OF VENT] X [9 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDE ROOF LOUVER VENTS:

[NUMBER OF VENTS] X [70 SQUARE INCHES IN FREE AREA] / 12 = SQ. FT. PROVIDED

CRAWL SPACE VENTILATION: (IRC 408)

[TOTAL CRAWL SPACE SQ. FT.] / [300] = SQ. FT. AREA REQUIRED

FOUNDATION VENT:

FREE SPACE PROVIDED BY VENT = F

[FREE AREA REQUIRED] / F = NUMBER OF VENTS REQUIRED

THE BURKE

AT AVERY POND COMMUNITY FUQUAY VARINA, NORTH CAROLIN

THESE DOCUMENTS ARE PROPERTY OF COMMENTS ARE INTERESTORE AND DESIGN AND SHALL NOT USED TO ARROW THE STATE OF THE PROPERTY OF T

PERMIT SET FOR CONSTRUCTION

● 31 DECEMBER 2019

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.

WINDOW NOTES

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

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

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

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

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

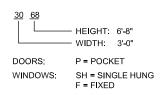
DOOR NOTES

-ATTIC ACCESS DOORS TO INCLUDE WEATHER STRIPPING & INSULATION

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

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

DOOR & WINDOW LEGEND



SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 748 sf SECOND FLOOR (HTD.) = 1167 sf 1915 sf

GARAGE = 416 sf FRONT PORCH = 40 sf

FLOOR PLAN LEGEND

= 2371 sf

| 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 |
| <u> </u> | SHOWER HEAD |
| (RH) | RAIN HEAD |
| Ť | 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' - 1½" CEILING HEIGHTS ON FIRST FLOOR 8' - 1½" CEILING HEIGHTS ON SECOND FLOOR

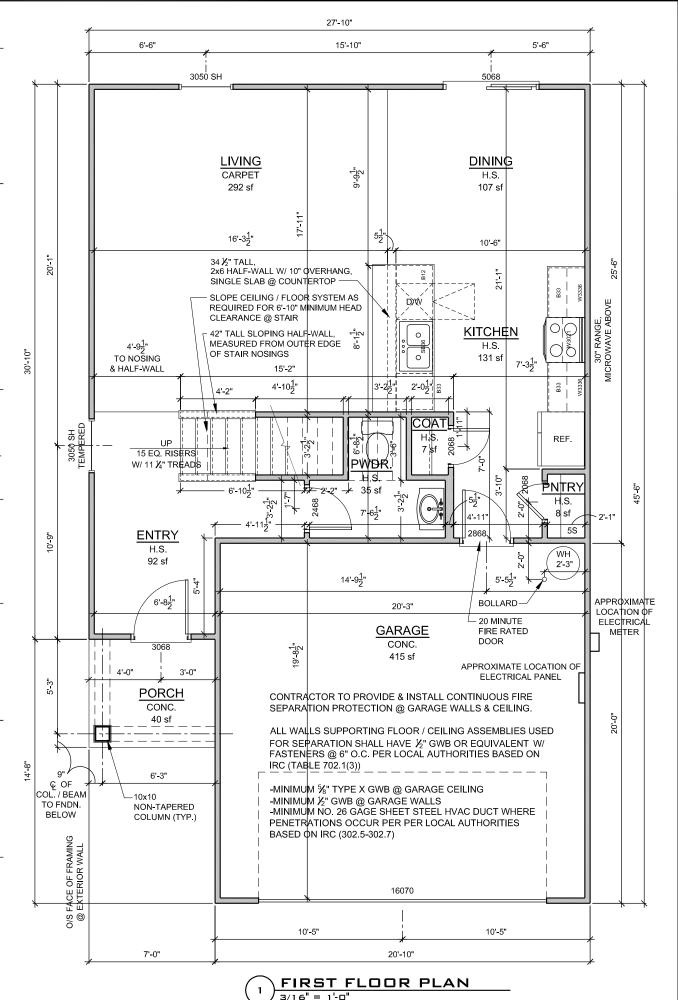
> MEASURED FROM TOP OF SUBFLOOR / CONCRETE SLAB TO BOTTOM OF FLOOR JOISTS / ROOF TRUSSES

COLUMN NOTES

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





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AT AVERY P QUAY VARIN

PERMIT SET

● 31 DECEMBER 2019

FLOOR PLAN

A2.0

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SQUARE FOOTAGES

FIRST FLOOR (HTD.) = 748 sf SECOND FLOOR (HTD.) = 1167 sf 1915 sf

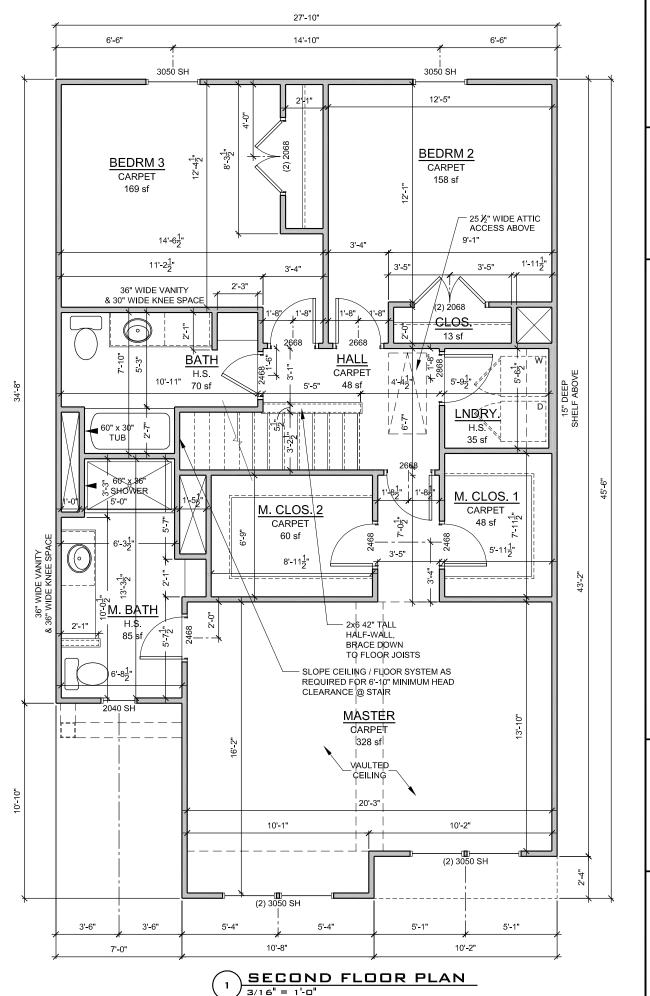
GARAGE = 416 sf FRONT PORCH = 40 sf

TOTAL = 2371 sf

CEILING HEIGHT NOTES

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

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





THE BURKE

AT AVERY POND COMMUNITY
FUQUAY VARINA, NORTH CAROLIN

IEEE DOCUMENTS ARE PROPERTY OF LOS LUSEC OR REPRODUCED WITHOUT WRITTEN INSENT BY COX ARCHITECTURE AND SIGN. COX ARCHITECTURE AND OSIGN NAUTHORIZED USE OF THESE OCCUMENTS.

PERMIT SET FOR CONSTRUCTION

31 DECEMBER 2019

FLOOR PLAN

A2.1

ROOF NOTES

-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS 8 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 OF IRC

ELEVATION NOTES

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

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

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

-ALL BUILDINGS CONSTRUCTED WITH LESS THAN A 10' FIRE 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.

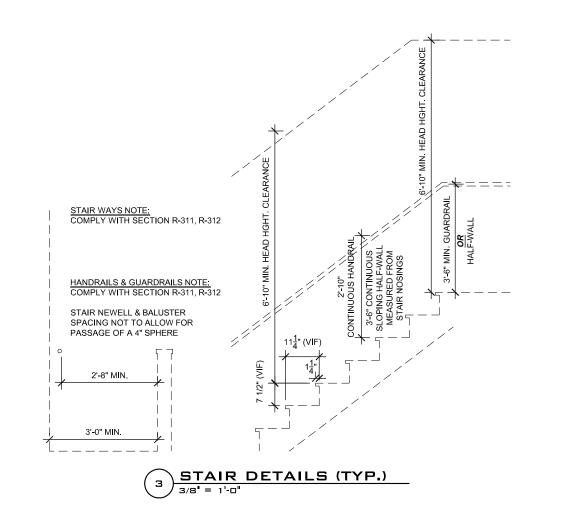
CEILING HEIGHT NOTES

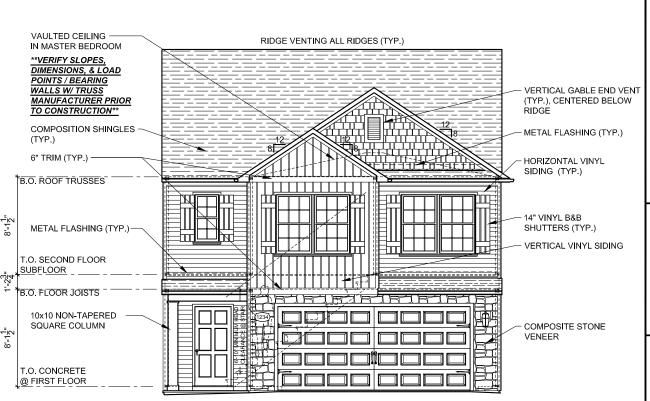
8' - 1 1/2" CEILING HEIGHTS ON FIRST FLOOR 8' - 1 1/2" CEILING HEIGHTS ON SECOND FLOOR

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

COLUMN NOTES

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







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AT AVERY P QUAY VARIN

PERMIT SET FOR CONSTRUCTION

● 31 DECEMBER 2019

ELEVATIONS

A3.0

FRONT ELEVATION







METAL FLASHING \(\times \)
W/ KICK-OUT (TYP.)





THE BURKE

AT AVERY POND COMMUNITY FUQUAY VARINA, NORTH CAROLINA

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PERMIT SET FOR CONSTRUCTION

31 DECEMBER 2019

ELEVATIONS

A3.1

ELECTRICAL LEGEND

120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS SMOKE/CARBON MONOXIDE DETECTOR nd Door Bell G.F.I. 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS DOOR BELL CHIME DOOR BELL TRANSFORMER WEATHER PROOF GFI 120 OUTLET \$ WALL SWITCH, 48" A.F.F. TO CENTER 240 OUTLET. COORDINATE EXACT LOCATION WITH EQUIPMENT SPECIFICATIONS \$_D DIMMER SWITCH, 48" A.F.F. TO CENTER \$3 3 WAY SWITCH, 48" A.F.F. TO CENTER 1/2 SWITCHED 120 OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS \$4 4 WAY SWITCH, 48" A.F.F. TO CENTER 120 QUADRAPLEX OUTLET, 18" A.F.F. TO CENTER 3 WAY STACKED SWITCH USB OUTLET, 18" A.F.F. TO CENTER OR 12" ABOVE COUNTERTOPS PHONE, 18" A.F.F. TO CENTER, 'W'
INDICATES WALL MOUNTED @ 48" A.F.F. FLOOR 120 OUTLET (FLUSH)
(TBD IN FIELD W/ OWNER) DATA, 18" A.F.F. TO CENTER, W'
INDICATES WALL MOUNTED @ 48" A.F.F. JUNCTION BOX CEILING LIGHT FIXTURE (LED) FLUORESCENT LIGHT FIXTURE ₩ WALL LIGHT FIXTURE ZENON UNDER CABINET LIGHT TO BE MTD. TO BOTTOM OF WALL CAB. NEAR FRONT EDGE 4" RECESSED LIGHT FIXTURE PLUG MOLD TO BE MTD. TO BOTTOM OF WALL CAB. NEAR WALL 4" RECESSED DAMP LOCATION LIGHT FIXTURE —● LED TAPE LIGHT 4" RECESSED EYEBALL FIXTURE DO DOOR OPENER FAN/LIGHT RECESSED FIXTURE EP ELECTRICAL PANEL
EM ELECTRICAL METER FAN/LIGHT RECESSED DAMP LOCATION FIXTURE TWH TANKLESS WATER HEATER CEILING FAN (*PROVIDE BLOCKING) +HB HOSE BIBB FLOOD LIGHT +G GAS CONNECTION +GSO GAS SHUT-OFF THERMOSTAT

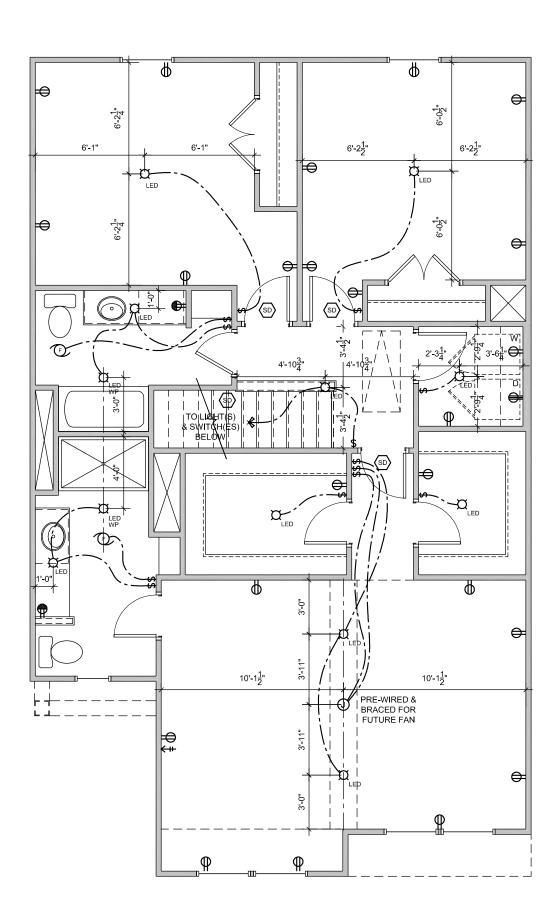
ELECTRICAL NOTES

EXHAUST FAN

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

ELECTRICAL PANEL / METER

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



SECOND FLOOR ELECTRICAL PLAN



THE BURKE

AT AVERY POND COMMUNITY FUQUAY VARINA, NORTH CAROLI

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PERMIT SET FOR CONSTRUCTION

31 DECEMBER 2019

ELECTRICAL PLAN

E1.1

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

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

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

JUNCTION BOX

CEILING LIGHT FIXTURE (LED) ₩ WALL LIGHT FIXTURE

4" RECESSED LIGHT FIXTURE 4" RECESSED DAMP LOCATION

4" RECESSED EYEBALL FIXTURE

FAN/LIGHT RECESSED FIXTURE

FAN/LIGHT RECESSED DAMP LOCATION FIXTURE

CEILING FAN (*PROVIDE BLOCKING) FLOOD LIGHT

THERMOSTAT

EXHAUST FAN

SMOKE/CARBON MONOXIDE DETECTOR

noor Bell

■ DOOR BELL CHIME

DOOR BELL TRANSFORMER

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

\$3 3 WAY SWITCH, 48" A.F.F. TO CENTER

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

\$3 WAY STACKED SWITCH

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

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

FLUORESCENT LIGHT FIXTURE

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

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

----- LED TAPE LIGHT

DO DOOR OPENER

EP ELECTRICAL PANEL EM ELECTRICAL METER

TWH TANKLESS WATER HEATER

+HB HOSE BIBB

+G GAS CONNECTION

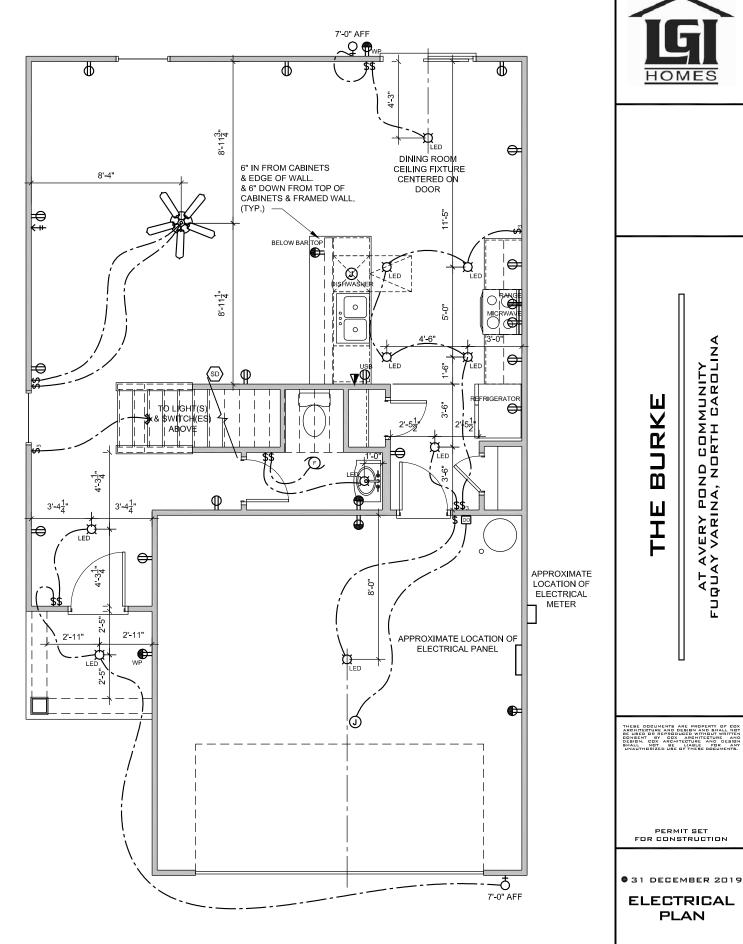
+GSO GAS SHUT-OFF

ELECTRICAL NOTES

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

ELECTRICAL PANEL / METER

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



FIRST FLOOR ELECTRICAL PLAN

AT AVERY POND COMMUNITY FUQUAY VARINA, NORTH CAROL

BURKE

THE

PERMIT SET FOR CONSTRUCTION

PLAN

E1.0

DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

Applicable Building Codes:

- 2018 North Carolina Residential Building Code
- ASCE 7—10: Minimum Design Loads for Buildings and Other Structures

Design Loads:

| I. Koot |
|--------------------------------------|
| 1.1 Live 20 PSF |
| 1.2 Dead 10 PSF |
| 1.3 Snow 15 PSF |
| 1.3.1 Importance Factor1.0 |
| 2. Floor Live Loads |
| 2.1 Typ. Dwelling 40 PSF |
| 2.2 Sleeping Areas 30 PSF |
| 2.3 Balconies (exterior) and Decks |
| 2.4 Garage Parking 50 PSF |
| 3. Floor Dead Loads |
| 3.1 Conventional 2x 10 PSF |
| 3.2 I-Joist |
| 3.3 Floor Truss 15 PSF |
| 4. Ultimate Wind Speed (3 sec. gust) |
| 4.1 Exposure B |
| 4.2 Importance Factor 1.0 |
| 4.3 Wind Base Shear |
| $4.3.1 \ \forall x =$ |
| 4.3.2 Vy = |
| 5. Component and Cladding (in PSF) |

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

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| Ю. | Seism | HC. |
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| 6.1 | Site ClassD |
|-----|---|
| | Design CategoryC |
| | Importance Factor1.0 |
| | Seismic Use Group1 |
| | Spectral Response Acceleration |
| | 6.5.1 Sms = %q |
| | 6.5.2 Sm1 = % g |
| 6.6 | Seismic Base Shear |
| | 6.6.1 Vx = |
| | 6.6.2 Vy = |
| 6.7 | Basic Structural System (check one) |
| | ■ Bearing Wall |
| | ☐ Building Frame |
| | ☐ Moment Frame |
| | ☐ Dual w/ Special Moment Frame |
| | ☐ Dual w/ Intermediate R/C or Special Steel |
| | ☐ Inverted Pendulum |
| 6.8 | Arch/Mech Components Anchored?No |
| | , |
| 0.9 | Lateral Design Control: Seismic□ Wind ⊠ |

7. Assumed Soil Bearing Capacity......2000psf



STRUCTURAL PLANS PREPARED FOR:

BURKE

PROJECT ADDRESS: TBD

OWNER: LGI Homes 7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

ARCHITECT/DESIGNER:
COX Architecture & Design, PLLC

Charlotte, NC 28203

1310 South Tryon Street, Suite 111

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, P.C. before construction begins.

PLAN ABBREVIATIONS:

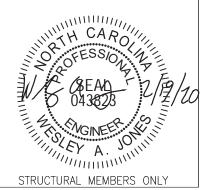
| AB | Anchor Bolt | OC | On Center | |
|--------------|---|-----|-------------------------------|--|
| | American Concrete Institute | PCF | Pounds per Cubic Foot | |
| ASCE | American Society of Civil Engineers | PCI | Pounds per Cubic Inch | |
| $A \vdash A$ | American Fiberboard Association | PSF | Pounds per Square Foot | |
| AFF | Above Finished Floor | PSI | Pounds per Square Inch | |
| | American Institute for Steel Construction | | Pressure Treated | |
| APA | American Plywood Association | SC | Stud Column | |
| AWS | American Welding Society | SER | Structural Engineer of Record | |
| CJ | Ceiling Joist | SJ | Single Joist | |
| CLR | Clear | | Spruce Pine Fir | |
| DBL | Double | SST | Simpson Strong Tie | |
| DJ | Double Joist | ST | Single Truss | |
| DSP | Double Stud Pocket | STD | Standard | |
| EA | Each | TJ | Triple Joist | |
| EE | Each End | TOF | Top of Footing | |
| EOS | Edge of Slab | TSP | Triple Stud Pocket | |
| EW | Each Way | TYP | Typical | |
| HDG | Hot Dipped Galvanized | UNO | Unless Noted Otherwise | |
| NDS | Nation Design Spec. for Wood | WWF | Welded Wire Fabric | |
| NTS | Not to Scale | | | |

SHEET LIST:

| Sheet No. | Description |
|-----------|--|
| CS1 | Cover Sheet, Specifications, Revisions |
| CS2 | Specifications Continued |
| S1.0m | Monolithic Slab Foundation |
| S1.0s | Stem Wall Foundation |
| S1.0c | Crawl Space Foundation |
| S1.0b | Basement Foundation |
| S2.0 | Basement Framing Plan |
| S3.0 | First Floor Framing Plan |
| S4.0 | Second Floor Framing Plan |
| S5.0 | Roof Framing Plan |
| \$6.0 | Basement Bracing Plan |
| S7.0 | First Floor Bracing Plan |
| S8.0 | Second Floor Bracing Plan |

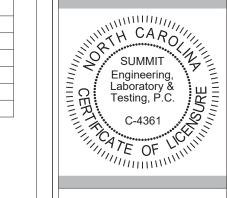
REVISION LIST:

| Revision No. | Date | Project No. | Description |
|-----------------|---------|----------------|---|
| 1 | 1/16/19 | 20993 | Updated plan per 2018 NCRC & moved engineering to SUMMIT template |
| 2 | 6/4/19 | 20993R | Added crawl space foundation |
| 3 | 10/9/19 | 20993R2 | Revised per new architecturals |
| 4 | 2/19/20 | 26836 | Added crawlspace foundation |
| | | | |
| | | | |
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| | | | |





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LGI Homes 7201 Creedmoor Road, Suite 147 Raleigh, NC 27613

CURRENT DRAWING

Coversheet

Burke (RH)

DATE: 2/19/20

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

PROJECT #: 1203-08R: 26836

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 11/20/18 PROJECT # 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS1

GENERAL STRUCTURAL NOTES:

- 1. 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, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences. methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

FOUNDATIONS:

- 1. Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones 130mph and above)
- 2. Footing sizes based on a presumptive soil bearing capacity of 2000 PSF. Contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- 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.
- 6. 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.
- 7. 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.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- 9. Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter foundation wall
- 10. Crawl spaced to be graded level and clear of all debris
- 11. Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

- 1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings"
- 3. Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicina chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows: 3.1. Footings: 5%
 - 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER
- 5. Concrete slabs—on—grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction"
- The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.
- 7. Control or saw cut joints shall be spaced in interior slabs—on—grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of W.W.F.

CONCRETE REINFORCEMENT:

- 1. 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 strenath.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement
- 3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- 4. Fibermesh shall comply with ASTM C1116, 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.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice
- 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

- 1. 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.
- 2. LVL or PSL engineered wood shall have the following minimum design values:
 - 2.1. E = 1,900,000 psi
 - 2.2. Fb = 2600 psi2.3. Fy = 285 psi
 - 2.4. Fc = 700 psi
- 3. 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 B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. All beams shall have full bearing on supporting framing members unless otherwise noted.
- 7. 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.
- 8. 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 fully blocked at all floor levels to ensure proper load transfer.
- 9. Multi-ply beams shall have each ply attached wth (3)10d nails @ 24" O.C.
- 10. Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

- 1. 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.
- 5. 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.

WOOD STRUCTURAL PANELS:

- 1. 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.
- 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)-8dCC 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
- Wood floor sheathing shall be APA rated sheathina exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building
- 6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

STRUCTURAL FIBERBOARD PANELS:

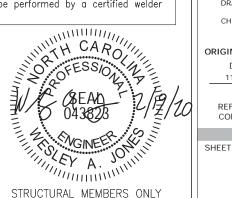
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
- 3. Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

EXTERIOR WOOD FRAMED DECKS:

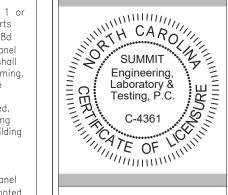
1. Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

STRUCTURAL STEEL:

- 1. 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 of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- 2. All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shopt and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.



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4

CURRENT DRAWING

DATE: 2/19/20

Coversheet

(RH)

Burke

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

PROJECT #: 1203-08R: 26836

DRAWN BY: I BV CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 11/20/18

20440

PROJECT #

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS₂

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- STRUCTURAL CONCRETE TO BE Fc = 3000 PSI, PREPARED AND PLACED IN
- ACCORDANCE WITH ACI STANDARD 318.
 FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE
- CODE ENFORCEMENT OFFICIAL.
 FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY
- OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
 FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.

 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS
- SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- WILE I AS REQUIRED DI SITE CONDITIONS.

 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- VENEERS. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16, MINIMUM 1/2" DIA, BOLTS SPACED AT 6"-0" ON CENTER WITH A T" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- - DJ = DOUBLE JOIST SJ = SINGLE JOIST FT = FLOOR TRUSS
 DR = DOUBLE RAFTER
 TR = TRIPLE RAFTER GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END
 - TJ = TRIPLE JOIST CL = CENTER LINE OC = ON CENTER PL = POINT LOAD
- 14. ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16"
- MASONRY, TYPICAL. (UNO)

 WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN
 A FOUNDATION EXCAYATION OBSERVATION SHOULD BE CONDUCTED BY A
 PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL

REFER TO BRACED IIIALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED. THE IN O DRAFED WALL FLAN FOR FANEL LOCATIONS AND ANT RECUIRED HOLD-DOUBN, ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURE R602.10.1 OF THE 2015 IRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.1

ANCHOR SPACING SHALL BE REDUCED TO 4'-0" ON CENTER IN LOCATIONS WHERE THE DESIGN WIND SPEED IS 130 MPH

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE VERBAL INFORMATION PROVIDED BY LGI HOMES.

THE FOLLOWING LOADS WERE ASSUMED FOR THE DESIGN:

ROOF LIVE LOAD - 20 PSF ROOF DEAD LOAD - 20 PSF FLOOR LIVE LOAD - 40 PSF FLOOR DEAD LOAD - 15 PSF

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 8/9/19. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. 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, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

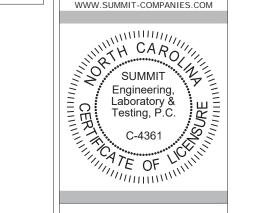
12"x10" DP CONT CONC FTG (TYP @ 27'-10' SIDING VENEER: 16"x20" DP D2m (Dlm) CONC. LUG FTG. (TYP.) BRICK VENEER: 21"x2@" DP CONC. LUG \ Dlm / FTG. (TYP.) **`** D1m 16"x1Ø" DP LUG FTG. Dlm. Dim/ 16"x13.5" DP LUG FTG. (TYP @ GARAGE D2m 2 2 1 INTERIOR D2m 4\$ $- \diamondsuit$ 12"x10" DP CONT. CONC. FTG. (TYP & PORCH) √Dlm

ALL ELEVATIONS

| | 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"SQ x 12"D | (4) *4 E.W. | | |
| | 6 | 48"5Q x 12"D | (6) *4 E.W. | | |
| | 4" THICK POURED CONCRETE SLAB W/ | | | | |
| | FIBER MESH ON 6 MIL 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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Suite Road, 3 Creedmoor gh, NC 2761; Homes 7201 Cre Raleigh, CLIENT

4

CURRENT DRAWING

Fnd

Slab

Monolithic

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: I BV

CHECKED BY: WAJ

ORIGINAL DRAWING

THE CAROLLING TH CAROL

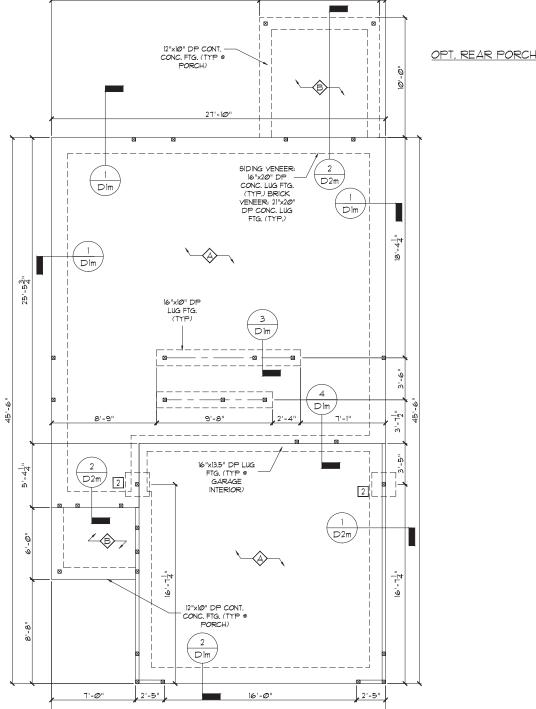
TO VGINE JOHN

STRUCTURAL MEMBERS ONLY

DATE 11/20/18 PROJECT # 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S1.0m



FOUNDATION NOTES:

- 1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
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 FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE
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 FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE
- ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.

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- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS. 12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE IZ" FROM THE END OF EACH PLATE SECTION, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 13. 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

SHALL BE REDUCED TO 4'-0" ON CENTER IN LOCATIONS WHERE THE DESIGN WIND SPEED IS 130 MPH.

ANCHOR SPACING

- 14. ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY, TYPICAL, (UNO)
- IS JULI FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.

 16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS, ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURE R602.10.1 OF THE 2015 IRC.

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R4051

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.4.3 OF THE 2018

DECK FJ SHALL BE SPACED AT MAX. 12" ON CENTER WHEN DECKING INSTALLED DIAGONALLY

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE VERBAL INFORMATION PROVIDED BY LGI HOMES.

THE FOLLOWING LOADS WERE ASSUMED FOR THE DESIGN:

ROOF LIVE LOAD - 20 PSF ROOF DEAD LOAD - 20 PSF FLOOR LIVE LOAD - 40 PSF FLOOR DEAD LOAD - 15 PSF

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 8/9/19. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. 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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

STEM WALL FOUNDATION SCALE: 1/8"=1"

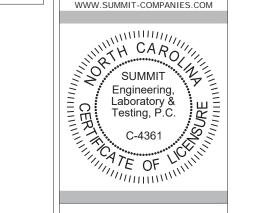
UNGROUTED CMU WALLS SHALL NOT EXCEED 48" OF UNBALANCED FILL 27'-10' D25/ SIDING VENEER: 8" CMU FND WALL ON 16"X10" DP CONT. Dls CONC. FTG. (TYP.) BRICK VENEER: 8" MAS FND WALL W/ Dls BRICK VENEER ON 21"xIØ" DP CONT. CONC. FTG. (TYP.) -⟨⟨> Dls , 16"x10" DF LUG FTG. Dls s----s Dis D25 2 1 D25/ **∕**� UNGROUTED CMU WALLS SHALL

ALL ELEVATIONS

| FOUNDATION SCHEDULE | | | | |
|----------------------------------|---------------------|---------------|--|--|
| TAG | DESCRIPTION | REBAR REQ'D | | |
| 1 | 16"9Q 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"SQ x 12"D | (4) *4 E.W. | | |
| 6 | 48"5Q x 12"D | (6) *4 E.W. | | |
| 4" THICK POURED CONCRETE SLAB W/ | | | | |
| FIBER MESH ON 6 MIL 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

3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919 380 9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Suite Road, 3 61 Creedmoor 27 $\frac{1}{2}$ Homes 7201 Cre Raleigh, LGI LGI

4

CURRENT DRAWING

Fnd

Wall

Stem

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 11/20/18

THE CARONIA

THEY A. JOHN

STRUCTURAL MEMBERS ONLY

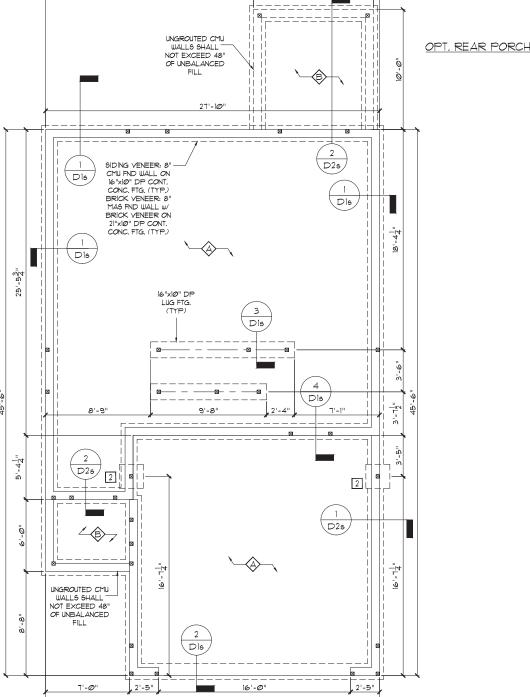
TH CAROL

PROJECT # 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S1.0s



FOUNDATION NOTES:

- 1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- 2. STRUCTURAL CONCRETE TO BE F_c = 3000 PSI, PREPARED AND PLACED IN
- ACCORDANCE WITH ACI STANDARD 318.
 FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
 FOOTING 61ZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000
- PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY
- OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
 FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF
- MASONRY.

 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY
- OR CONCRETE. ANCHOR BOLTS SHALL BE IZ" FROM THE END OF EACH PLATE SECTION, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS
- SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER
- SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST
- CL = CENTER LINE
- TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD
 - ON CENTER IN LOCATIONS WHERE THE DESIGN WIND SPEED IS 130 MPH.

ANCHOR SPACING

SHALL BE REDUCED TO 4'-0"

- 14. ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY, TYPICAL, (UNO)
- IS JULI FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.

 16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING
- LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT. ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS, ADDITIONAL INFORMATION PER SECTION R602.008 AND FIGURE R602.10.1 OF THE 2015 IRC.

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY PILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MINIMUM 4" SOLID MASONRY BEARING.

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R405.1

DECK FJ SHALL BE SPACED AT MAX. 12" ON CENTER WHEN DECKING INSTALLED DIAGONALLY

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE VERBAL INFORMATION PROVIDED BY LGI HOMES.

THE FOLLOWING LOADS WERE ASSUMED FOR THE DESIGN:

ROOF LIVE LOAD - 20 PSF ROOF DEAD LOAD - 20 PSF FLOOR LIVE LOAD - 40 PSF FLOOR DEAD LOAD - 15 PSF

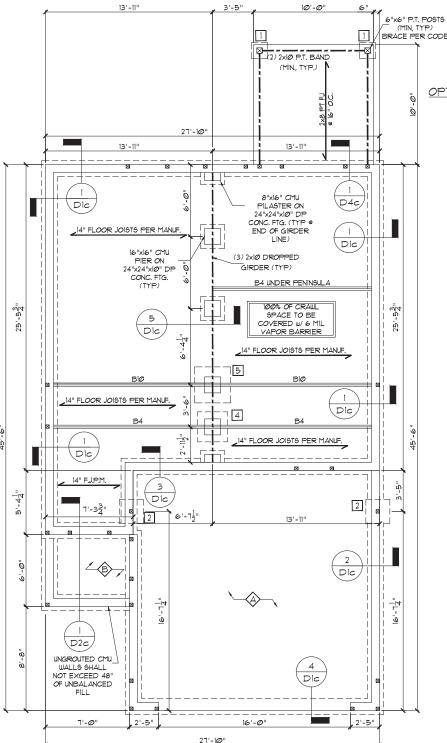
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION SCALE: 1/8"=1"



| 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"SQ x 12"D | (4) *4 E.W. | | |
| 6 | 48"5Q x 12"D | (6) *4 E.W. | | |
| \langle | FIBER MESH ON 6 N COMPACTED | 11L POLY ON SOIL | | |
| ♠ | 4" THICK POURED CON COMPACTED | | | |
| ABBREVIATIONS: W = WIDTH, D = DEPTH, SQ = SQUARE | | | | |
| B.D. = BOTH DIRECTIONS, CONT. = CONTINUOUS, | | | | |
| MONO = MONOLITHIC SLAB FOOTING | | | | |
| | TAG 1 2 3 4 5 6 ABBREVIATIC BD. = BOTH | TAG DESCRIPTION | | |

| BEAM SCHEDULE | |
|---------------|-----------------------------------|
| TAG | SIZE |
| BI | (1) 11-7/8" FLOOR JOIST OR TRUSS |
| B2 | (2) 11-7/8" FLOOR JOISTS OR TRUSS |
| B3 | (1) 14" FLOOR JOIST OR TRUSS |
| B4 | (2) 14" FLOOR JOISTS OR TRUSS |
| B5 | (1) 9-1/4" LVL |
| B6 | (2) 9-1/4" LVL |
| ВТ | (1) 11-7/8" LVL |
| B8 | (2) 11-7/8" LVL |
| B9 | (1) 14" LVL |
| BIØ | (2) 14" LVL |
| BII | (2) 2×1Ø |

BEAM SIZES SHOWN ARE MINIMUM SIZES, LARGER SIZES MAY BE SUBSTITUTED FOR EASE OF CONSTRUCTION.
BEAMS ARE TO BE FLUSH WITH TOP OF TFLOOR

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

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.4.3 OF THE 2018 NCRC.

18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE LOCATED IN FIELD PER BUILDER PROVIDE MIN. (2) 2×IØ HEADER OVER DOOR W/ MIN. 4" BEARING EACH END. AVOID SHOWN POINT LOADS.

FRONT PORCH DIMENSIONS SHOWN ARE TO FINISHED EXTERIOR INSET CMU WALL AS REQUIRED WHERE BRICK/STONE VENEER IS TO BE USED. REFER TO ARCHITECTURAL FILES FOR VENEER THICKNESS PORCH POSTS SHALL BEAR ABOVE CMU. DO NOT BEAR ABOVE VENEER.

> THE CAROLLING TH CAROL

> > TIMEY A. JOHN

STRUCTURAL MEMBERS ONLY



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SUMMIT SUMMIT SUMMIT SINGERING, TORY & TORY TH CAROL SUMMERS Eng. Labora Testing, C-4361

> Suite Road, 3 moor 61 _ \sim Creedr $\frac{1}{2}$ Homes 7201 Cre Raleigh, LGIENT

4

CURRENT DRAWING

Fnd

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Space

Crawl

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: I BV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 11/20/18

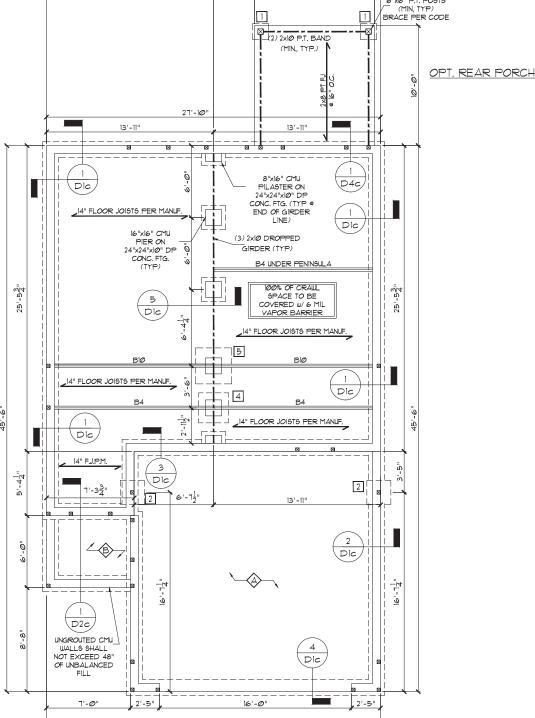
> REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

PROJECT #

20440

SHEET

S1.0c



ALL ELEVATIONS

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING
- CODE UITH ALL LOCAL AMENOMENTS.

 CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH
 THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT
- RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- TO RESIST ALL FORCES ENCOUNTERED DUMING ERECLION

 PROPERTIES (SUED IN THE DESIGN ARE AS FOLLOUS.

 MICROLLAM (LV.) F_D = 2600 PSI, F_V = 285 PSI, E = 19x10⁶ PSI

 PARALLAM (PSI.): F_D = 3900 PSI, F_V = 290 PSI, E = 125x10⁶ PSI

 ALL WOOD MEMBERS SHALL BE 72 SYP UNLESS NOTED ON PLAN ALL STUD COLUMNS

 AND JOISTS SHALL BE 72 SYP (WAO).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 12 SYP STUD COLUMN AT EACH
- END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615
- AND SHALL HAVE A MINIMUM COVER OF 3".
 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RADAILE MINIMAN IN?" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMAM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMAM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE, ANCHOR SPACING SHALL BE REDUCED TO 4"-0" ON CENTER IN LOCATIONS WHERE THE DESIGN WIND SPEED IS 130 MPH.
- CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.

 10. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/DTF, MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP 12, DROPPED, FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP *2, DROPPED. (UNLESS
- ABBREVIATIONS:

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

NOTE:

DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL.

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE VERBAL INFORMATION PROVIDED BY LGI HOMES.

THE FOLLOWING LOADS WERE ASSUMED FOR THE DESIGN:

ROOF LIVE LOAD - 20 PSF ROOF DEAD LOAD - 20 PSF FLOOR LIVE LOAD - 40 PSF FLOOR DEAD LOAD - 15 PSF

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STRUCTURAL MEMBERS ONLY

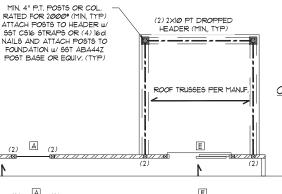
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

NOTE: IST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF IJALL (TYP INO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)



(2) A (2) B8 BIØ OR B4 W/ (3) S.C. E. SST LUS21Ø-2 (2) 2×12 05 А B3 OR EQUIV SST (OR B3 U21Ø-2 OR 14" FLOOR JOISTS PER MANUF (2) 2XIØ DROPPED HEADER MIN. 6" P.T. POSTS OR COL. _ (MIN, TYP) ATTACH POSTS TO SST LUS21Ø-2 HEADER III/ SST CSI6 STRAPS OR EQUIV. FOUNDATION W/ SST ABA66 POST BASE OR EQUIV. (TYP) 14" FJ.P.M (2) 2×12 OR FICONTINUOUS

ALL ELEVATIONS

PORTAL FRAME PER DETAIL I/DI

ROOF TRUSS UPLIFT CONNECTOR SCHEDULE

| MAX, UPLIFT | ROOF TO WALL | FLOOR TO FLOOR | FLOOR TO FND |
|-------------|--------------|----------------------|---------------|
| 600 LBS | H2.5A | PER WALL SHEATHIN | G & FASTENERS |
| 1200 LBS | (2) H2.5A | CS16 (END = 11") | DTT2Z |
| 145Ø LBS | HT52Ø | CS16 (END = 11") | DTT2Z |
| 2000 LBS | (2) MT92Ø | (2) CSI6 (END = II") | DTT2Z |
| 2900 LBS | (2) HTS2Ø | (2) CSI6 (END = II") | HTT4 |
| 3685 LB6 | LGT3-9D92.5 | MSTC52 | HTT4 |
| | | | |

ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIF FOULVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.

2. UPLIFT VALUES LISTED ARE FOR SYP 2 GRADE MEMBERS. 3. REFER TO TRUSS LAYOUT PER MANUF, FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS, CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE

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

OPT. REAR PORCH

| HEA | ULE | |
|-----|---------------------|--------------------|
| TAG | SIZE | JACKS (EAC END) |
| А | (2) 2x6 | (1) |
| В | (2) 2x8 | (2) |
| С | (2) 2xlØ | (2) |
| D | (2) 2xl2 | (2) |
| E | (2) 9-1/4" LSL/LVL | (3) |
| F | (2) 11-7/8" LSL/LVL | (3) |
| G | (3) 2x8 | (2) |
| Н | (3) 2x1Ø | (2) |
| I | (3) 2xl2 | (2) |

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

2. ALL HEADERS TO BE DROPPED (UN.O.).

3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO.).

| BEAM SCHEDULE | | |
|---------------|--------------------------------------|--|
| TAG | SIZE | |
| ы | (1) 11-7/8" FLOOR JOIST OR TRUSS | |
| B2 | B2 (2) 11-7/8" FLOOR JOISTS OR TRUSS | |
| B3 | (1) 14 FLOOR JOIST OR TRUSS | |
| B4 | (2) 14" FLOOR JOISTS OR TRUSS | |
| B5 | (1) 9-1/4" LVL | |
| В6 | (2) 9-1/4" LVL | |
| вт | (1) 11-7/8" LVL | |
| B8 | (2) 11-7/8" LVL | |
| B9 | (1) 14" LVL | |
| BIØ | (2) 14" LVL | |
| BII | (2) 2×1Ø | |
| | | |

BEAM SIZES SHOWN ARE MINIMUM SIZES, LARGER SIZES MAY BE SUBSTITUTED FOR EASE OF CONSTRUCTION.

BEAMS ARE TO BE FLUSH WITH TOP OF FLOOR UNLESS

| WALL STUD SCHEDULE | | | | |
|--------------------|--------|----------|-------------|----------|
| (10 FT HEIGHT) | | | | |
| STUD SIZE | | STUD SPA | CING (0.C.) | |
| | ROOF | R00F & | | NON-LOAD |
| | ONLY | 1 FLOOR | 2 FLOORS | BEARING |
| 2×4 | 24" | 16" | 12" | 24" |
| 2x6 | 24" | 16" | 24" | |
| NOTES. | NOTES. | | | |

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. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS

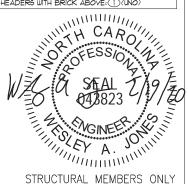
© 12" O.C. OR 2x6 STUDS © 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.

| KING STUD REQUIREMENTS | | |
|--|------------------|----------------|
| OPENING WIDTH | KINGS (EACH END) | |
| (FT) | 16" O.C. | 24" O.C. |
| LESS THAN 3'-@" | (1) | (1) |
| 3'-Ø TO 4'-Ø" | (2) | (1) |
| 4'-0" TO 8'-0" | (3) | (2) |
| 8'-0" TO 12'-0" | (5) | (3) |
| 12'-Ø" TO 16'-Ø" | (6) | (4) |
| KING STUD DEQUIDEMENTS ABOVE DO NOT ADDI | | A NOT APPLY TO |

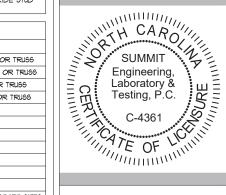
PORTAL FRAMED OPENINGS

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

LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3)) ALL HEADERS WITH BRICK ABOVE: (1) (UNO)



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4

CURRENT DRAWING

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836 DRAWN BY: I BV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 11/20/18 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S3.0

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING
- CODE UITH ALL LOCAL AMENOMENTS.

 CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH
 THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT, ENGINEER IS NOT
- RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- TO RESIST ALL FORCES ENCOUNTERED DUMING ERECLION

 PROPERTIES (SUED IN THE DESIGN ARE AS FOLLOUS.

 MICROLLAM (LV.) F_D = 2600 PSI, F_V = 285 PSI, E = 19x10⁶ PSI

 PARALLAM (PSI.): F_D = 3900 PSI, F_V = 290 PSI, E = 125x10⁶ PSI

 ALL WOOD MEMBERS SHALL BE 7° SYP UNLESS NOTED ON PLAN ALL STUD COLUMNS

 AND JOISTS SHALL BE 7° SYP (NIAO).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 12 SYP STUD COLUMN AT EACH
- END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA
- RESIDENTIAL CODE SECTION RADAILE MINIMAN INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION, MINIMAM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE, ANCHOR SPACING SHALL BE REDUCED TO 4"-0" ON CENTER IN LOCATIONS WHERE THE DESIGN WIND SPEED IS 130 MPH.
- CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.

 10. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/DTF, MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP 12, DROPPED, FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP *2, DROPPED. (UNLESS
- ABBREVIATIONS:

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

DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL.

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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

ROOF TRUSS AND FLOOR JOIST LAYOUTS, AND THEIR CORRESPONDING LOADING DETAILS, WERE NOT PROVIDED TO THE STRUCTURAL ENGINEER PRIOR TO THE DESIGN. THEREFORE, TRUSS AND JOIST DIRECTIONS WERE ASSUMED BASED ON THE VERBAL INFORMATION PROVIDED BY LGI HOMES.

THE FOLLOWING LOADS WERE ASSUMED FOR THE DESIGN:

ROOF LIVE LOAD - 20 PSF ROOF DEAD LOAD - 20 PSF FLOOR LIVE LOAD - 40 PSF FLOOR DEAD LOAD - 15 PSF

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 8/9/19. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. 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 BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

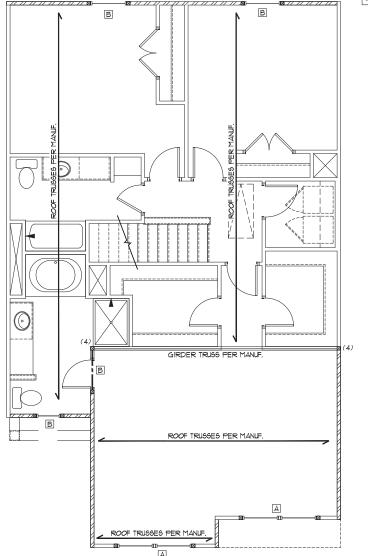
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SCALE: 1/8"=1"

SECOND FLOOR FRAMING PLAN

NOTE: IST PLY OF ALL SHOWN GIRE TRUSSES TO ALIGN WITH INSIDE FA IJALL (TYP INO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)



ALL ELEVATIONS

| DER CE OF | ROOF T | RUS |
|--------------|------------|-----|
| (CL 0) | MAY HOLIET | Tec |

| | MAX. UPLIFT | ROOF TO WALL | FLOOR TO FLOOR | FLOOR TO FNI |
|---|------------------|--------------|--------------------------|---------------|
| | 600 LBS | H2.5A | PER WALL SHEATHIN | G & FASTENERS |
| | 1200 LBS | (2) H2.5A | CS16 (END = 11") | DTT2Z |
| | 145Ø LB6 | HT52Ø | C616 (END = 11") | DTT2Z |
| | 2 <i>000</i> LBS | (2) MTS2Ø | (2) CSI6 (END = II") | DŤŤ2Z |
| , | 2900 LBS | (2) HTS2Ø | (2) CSI6 (END = II") | HTT4 |
| | 3685 LBS | LGT3-9D92.5 | MSTC52 | HTT4 |
| | 1 411 55651 | | 011 400 011 000 0114 010 | |

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

 2. UPLIFT VALUES LISTED ARE FOR SYP 12 GRADE MEMBERS. 3. REFER TO TRUSS LAYOUT PER MANUF, FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS, CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE
- 4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

| OF | TRUSS | UPLIFT | CONNECTOR | SCHEDULE |
|----|-------|--------|-----------|----------|
| | | | | |

| | MAX, UPLIFT | ROOF TO WALL | FLOOR TO FLOOR | FLOOR TO FND |
|--|-------------|--------------|----------------------|---------------|
| | 600 LBS | H2.5A | PER WALL SHEATHIN | G & FASTENERS |
| | 1200 LBS | (2) H2.5A | CS16 (END = 11") | DTT2Z |
| | 145Ø LBS | HT52Ø | CS16 (END = 11") | DTT2Z |
| | 2000 LBS | (2) MT92Ø | (2) CSI6 (END = II") | DTT2Z |
| | 2900 LBS | (2) HTS2Ø | (2) CSI6 (END = II") | HTT4 |
| | 3685 LB6 | LGT3-9D92.5 | MSTC52 | HTT4 |
| | | | E COURT AND ENTER | |

| HEA | ULE | |
|-----|---------------------|---------------------|
| TAG | SIZE | JACKS (EACH END) |
| A | (2) 2x6 | (1) |
| В | (2) 2x8 | (2) |
| С | (2) 2xlØ | (2) |
| D | (2) 2xl2 | (2) |
| E | (2) 9-1/4" LSL/LVL | (3) |
| F | (2) 11-7/8" LSL/LVL | (3) |
| G | (3) 2x8 | (2) |
| Н | (3) 2x1Ø | (2) |
| 1 | (3) 2xl2 | (2) |

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

2. ALL HEADERS TO BE DROPPED (UN.O.).

3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (UNO.).

| BEAM SCHEDULE | | | | |
|---------------|-----------------------------------|--|--|--|
| TAG | SIZE | | | |
| ВІ | (1) 11-7/8" FLOOR JOIST OR TRUSS | | | |
| B2 | (2) 11-7/8" FLOOR JOISTS OR TRUSS | | | |
| B3 | (1) 14 FLOOR JOIST OR TRUSS | | | |
| B4 | (2) 14" FLOOR JOISTS OR TRUSS | | | |
| B5 | (1) 9-1/4" LVL | | | |
| В6 | (2) 9-1/4" LVL | | | |
| вт | (1) 11-7/8" LVL | | | |
| B8 | (2) 11-7/8" LVL | | | |
| B9 | (1) 14" LVL | | | |
| BIØ | (2) 14" LVL | | | |
| BII | (2) 2×1Ø | | | |
| | | | | |

- BEAM SIZES SHOWN ARE MINIMUM SIZES, LARGER SIZES MAY BE SUBSTITUTED FOR EASE OF CONSTRUCTION.
- BEAMS ARE TO BE FLUSH WITH TOP OF FLOOR UNLESS

| WALL STUD SCHEDULE | | | | | | | |
|--------------------|-----------------|-------------------------------------|-----|-----|--|--|--|
| | (10 | FT HEIG | HT) | | | | |
| STUD SIZE | | STUD SPACING (O.C.) | | | | | |
| | ROOF | | | | | | |
| | ONLY | ONLY 1 FLOOR 2 FLOORS BEARING | | | | | |
| 2×4 | 24" | 16" | 12" | 24" | | | |
| 2x6 | 24" 24" 16" 24" | | | | | | |
| NOTES. | | | | | | | |

. 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. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS

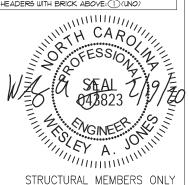
@ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-Ø" O.C. VERTICALLY.

| KING STUD REQUIREMENTS | | | | |
|--|------------------|----------|--|--|
| OPENING WIDTH | KINGS (EACH END) | | | |
| (FT) | 16" O.C. | 24" O.C. | | |
| LESS THAN 3'-0" | (1) | (1) | | |
| 3'-Ø TO 4'-Ø" | (2) | (1) | | |
| 4'-0" TO 8'-0" | (3) | (2) | | |
| 8'-0" TO 12'-0" | (5) | (3) | | |
| 12'-0" TO 16'-0" | (6) | (4) | | |
| KING STUD DEGUIDEMENTS ABOVE DO NOT ADDLY TO | | | | |

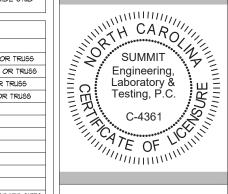
PORTAL FRAMED OPENINGS

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

LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3)) ALL HEADERS WITH BRICK ABOVE: (1) (UNO)



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uite S Framing Road, 3 61 Creedmoor \sim Floor \mathcal{C} $\frac{1}{2}$ Homes 7201 Cre Raleigh, Second LGI LGI

4

CURRENT DRAWING

DATE: 2/19/20

(RH)

urke

面

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: I BV

CHECKED BY: WAJ

ORIGINAL DRAWING

PROJECT # DATE 11/20/18 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S4.0

| REQUIRED BRACED WALL PANEL CONNECTIONS | | | | | |
|---|--------------------------|-----------|--------------------------------|--------------------------------|--|
| | | MIN. | MIN REQUIRED CONNECTION | | |
| METHOD | MATERIAL | THICKNESS | @ PANEL EDGES | @ INTERMEDIATE SUPPORTS | |
| C5-W5P | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS+ @ 6" O.C. | 6d COMMON NAILS: 9 12" O.C. | |
| GB | GYPSUM BOARD | 1/2" | 5d COOLER NAILS** ⊕ T" O.C. | 5d COOLER NAILS** ® 7" O.C. | |
| WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS+ @ 6" O.C. | 6d COMMON NAILS: 9 12" O.C. | |
| PF | WOOD STRUCTURAL PANEL | 7/16" | PER FIGURE R602.10.6.4 | PER FIGURE R602.10.6.4 | |
| "BASED ON 16" O.C. STUD SPACING "OR EQUIVALENT PER TABLE R10235 | | | | | |

BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- 2) WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.104.
 REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED WO FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINITUM PANEL LENGTH SHALL BE PER TABLE R603.105.

 THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- OR DEARING WALL DELOW WITHOUT ADDITIONAL ENGINEERING CALCULATION.

 10) A BRACED WALL LINE.

 11) THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A

- THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20 FEET.

 ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH IRC SECTION RE0235.

 MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602109
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.108 (SEE DETAIL 1/D51 FROM DETAIL PACKAGE).
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN
- ACCORDANCE WITH SECTION R602/082 AND FIGURES R602/08/1/(2)/(3).

 16) CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0/II
- 17) PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4
- 18) ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS: GB = GYPSUM BOARD

CS-XXX = CONT. SHEATHED PF = PORTAL FRAME

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

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY LGI HOMES COMPLETED/REVISED ON 8/9/19. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. 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.

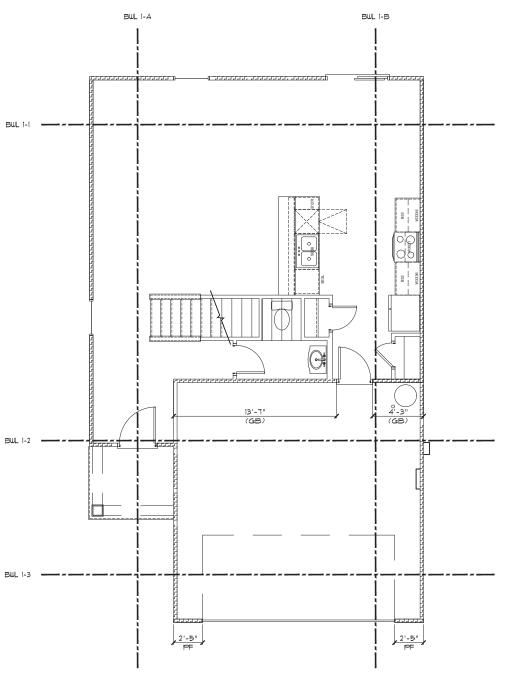
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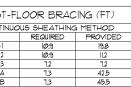
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN



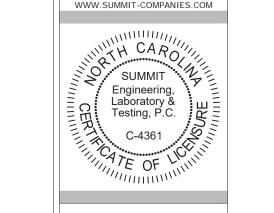


ALL ELEVATIONS





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Suite Road, 3 Creedmoor gh, NC 2761; Homes 7201 Cre Raleigh, LGI LGI

4

CURRENT DRAWING

acing

Br

Floor

First

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 11/20/18 PROJECT # 20440

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S7.0



| | REQUIRED BRACED WALL PANEL CONNECTIONS | | | | |
|--|--|-----------|--------------------------------|--------------------------------|--|
| | | MIN. | REQUIRED (| CONNECTION | |
| METHOD | MATERIAL | THICKNESS | @ PANEL EDGES | @ INTERMEDIATE SUPPORTS | |
| CS-WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS: 9 6" O.C. | 6d COMMON NAILS: 9 12" O.C. | |
| GB | GYPSUM BOARD | 1/2" | 5d COOLER NAILS** ⊕ T" O.C. | 5d COOLER NAILS** a T" O.C. | |
| WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS+ 9 6" O.C. | 6d COMMON NAILS, 9 12" O.C. | |
| PF | WOOD STRUCTURAL PANEL | 7/16" | PER FIGURE R602.10.6.4 | PER FIGURE R602.106.4 | |
| "BASED ON 16" O.C. STUD SPACING "OR EQUIVALENT PER TABLE RT023.5 | | | | | |

BRACED WALL NOTES:

- 1) IIIALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIR FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- 2) WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.10.4.
 REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING SIZES.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED WO FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINITUM PANEL LENGTH SHALL BE PER TABLE R602.105.
 THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- OR DEARING WALL DELOW WITHOUT ADDITIONAL ENGINEERING CALCULATION.

 10) A BRACED WALL LINE.

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 ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH IRC SECTION RE0235.

 MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602109
- 14) BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.103 (SEE DETAIL 1/D5f FROM DETAIL PACKAGE).
- BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN
- ACCORDANCE WITH SECTION R602/082 AND FIGURES R602/08/1/(2)/(3).

 16) CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0/II
- 17) PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4
- 18) ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS: GB = GYPSUM BOARD

CS-XXX = CONT. SHEATHED PF = PORTAL FRAME

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

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.8 AND FIGURE R602.10.7 OF THE 2015 IRC.

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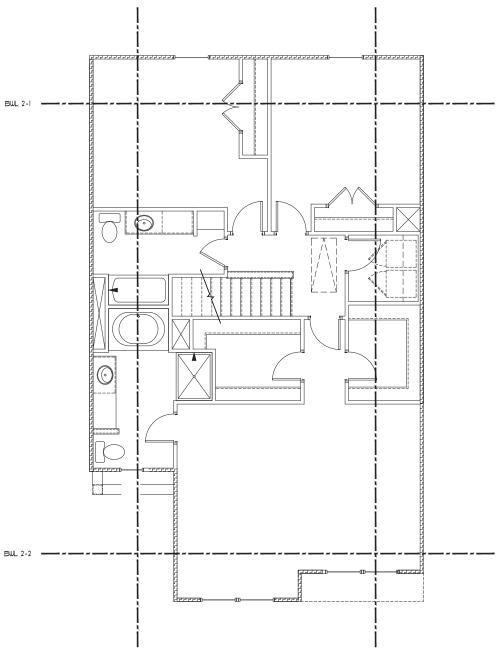
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

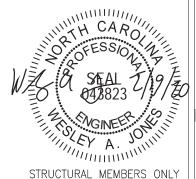
SECOND FLOOR BRACING PLAN

SECOND-FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD REQUIRED PROVIDED 6.7



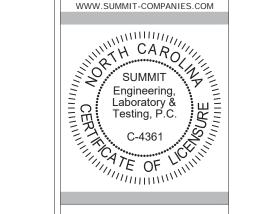
BWL 2-B

BWL 2-A





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uite S Road, 3 | Creedmoor | igh, NC 27613 Homes LGI Hom 7201 Cre Raleigh,

4

CURRENT DRAWING

Bracing

Second Floor

(RH)

Burke

DATE: 2/19/20

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

PRO IECT #: 1203-08R: 26836

DRAWN BY: LBV

CHECKED BY: WAJ

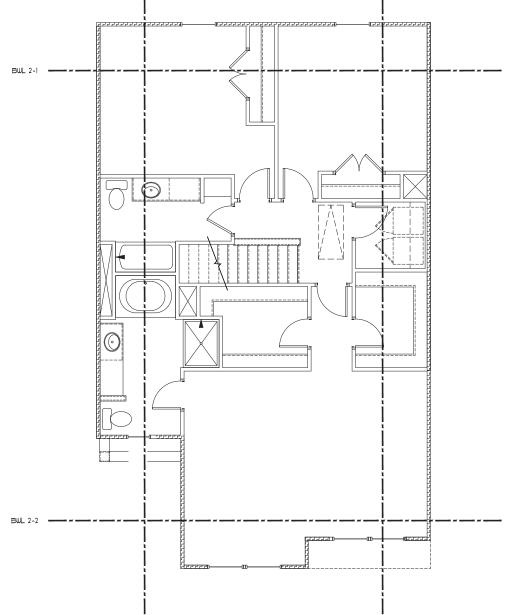
ORIGINAL DRAWING

DATE 11/20/18 PROJECT # 20440

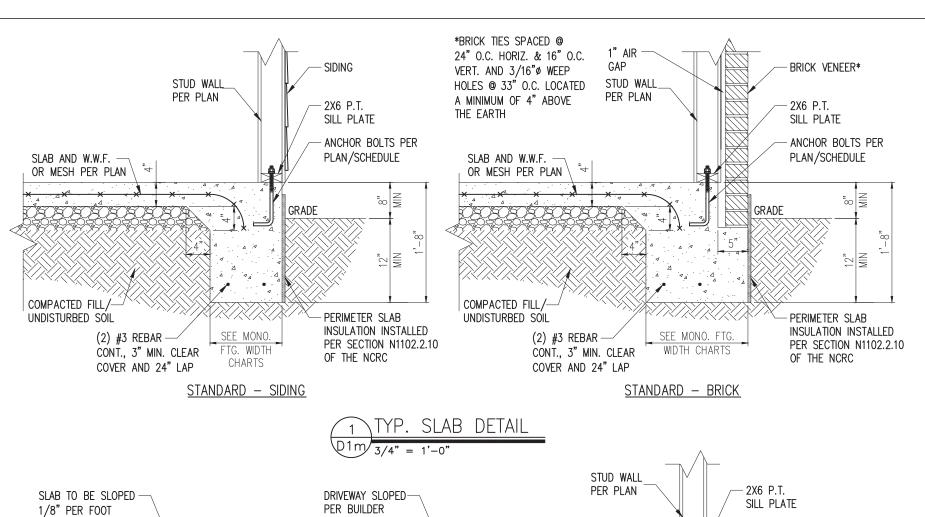
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

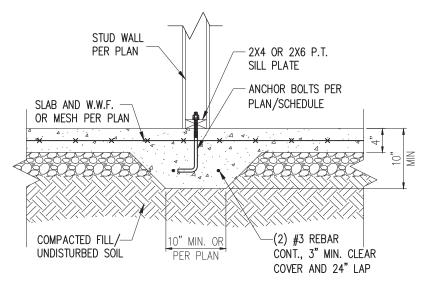
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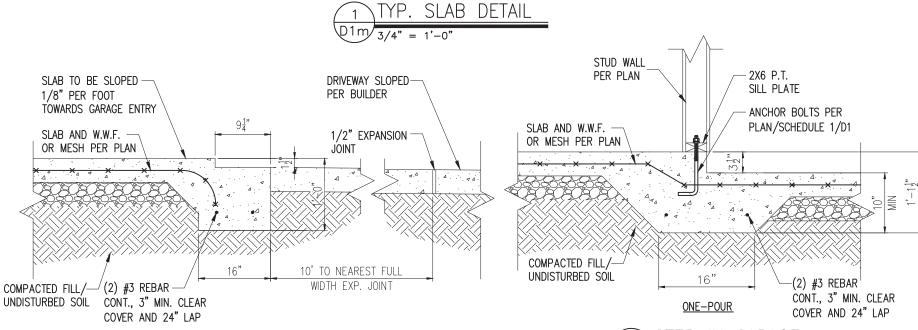
ALL ELEVATIONS





TYP. THICKENED SLAB DETAIL

3/4" = 1'-0"



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 |

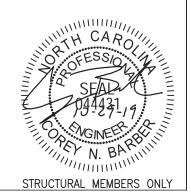
NOT

- 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

| # 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"* | |
| *E" PRIOR LEDGE HAC BEEN APPED TO THE MONOLITHIO | | | | |

*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT

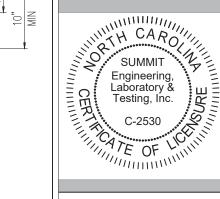




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Standard Details
Monolithic Slab Details

LGI Homes
7201 Creedmoor Road, Suite 147
Raleigh, NC 27613

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 10/01/19

TE PROJECT #
1/19 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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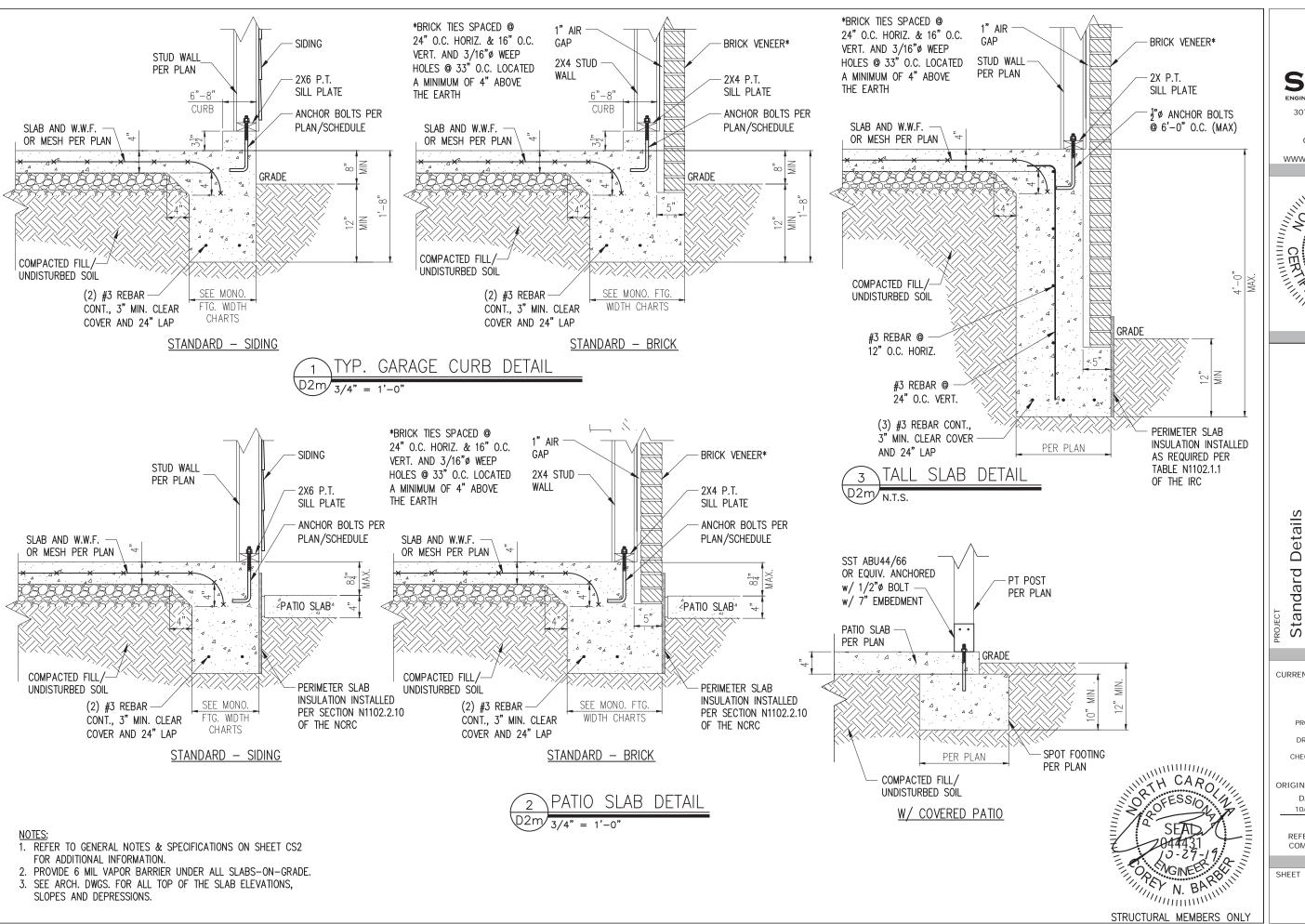


1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

AB AT GARAGE DOOR

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

SLOPES AND DEPRESSIONS.





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> 147 Suite Details Road, 3 CLIENT LGI Homes 7201 Creedmoor F Raleigh, NC 27613 Slab Standard Details Monolithic

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PRO IECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

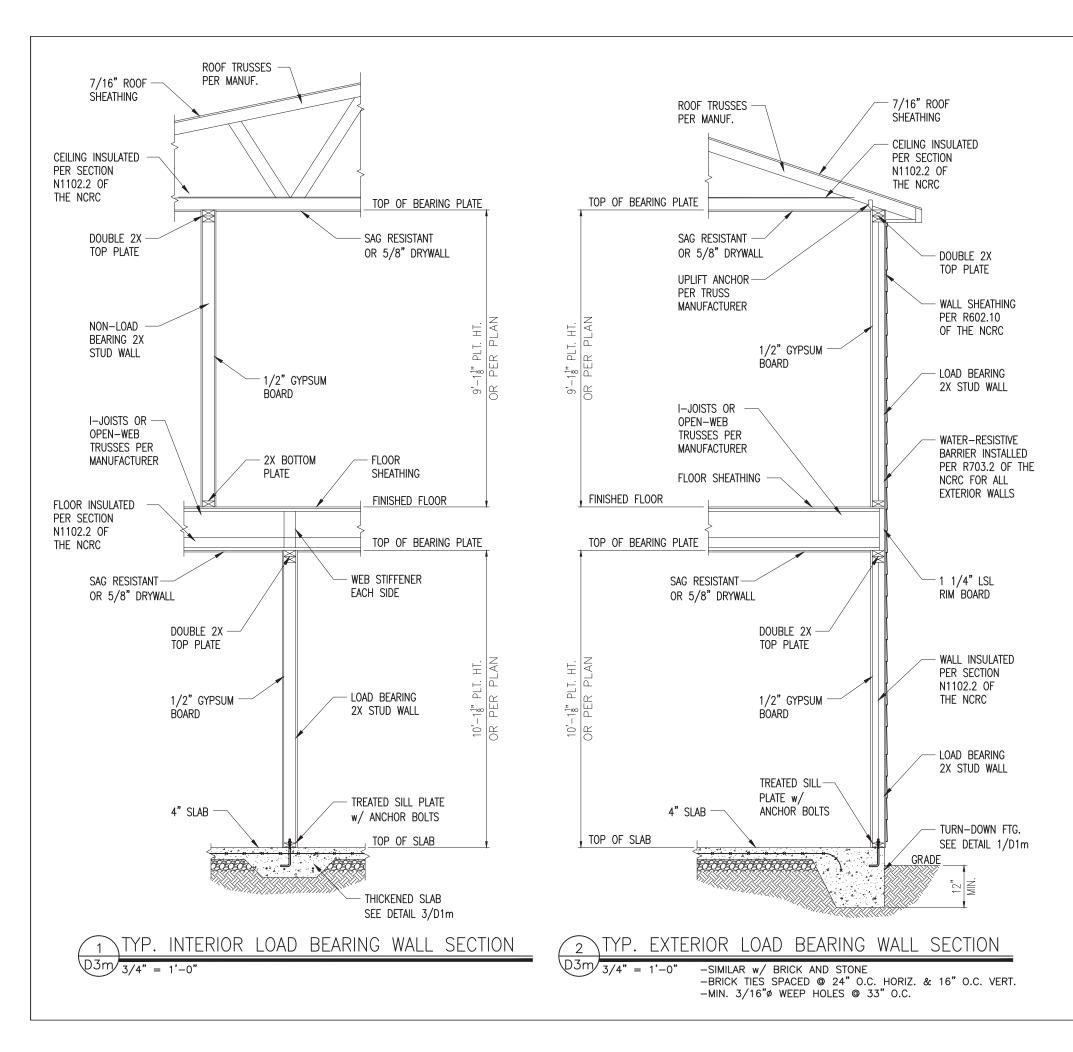
DATE 10/01/19

24512

PROJECT #

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Standard Details

Monolithic Slab Details

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

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

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ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

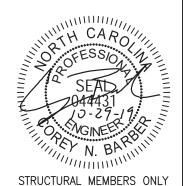
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

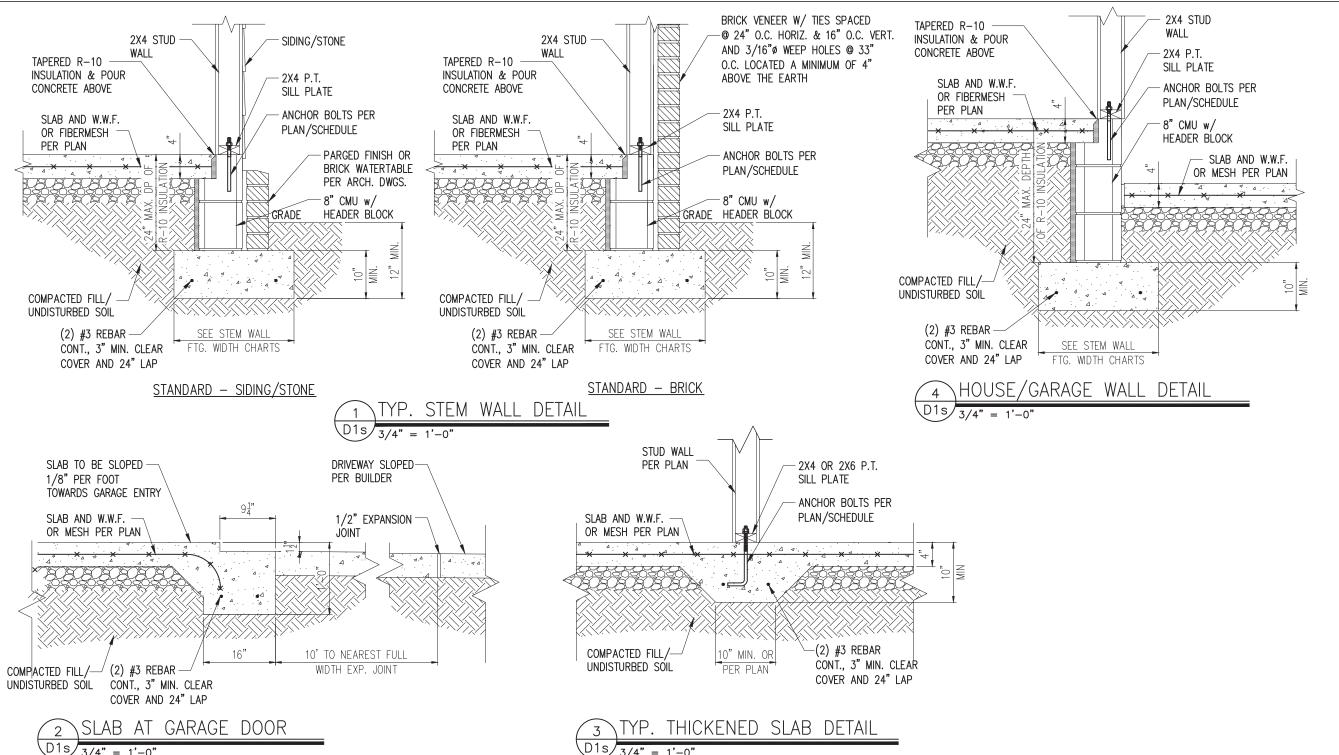
SHEET

D3m

NOTES:

- 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,
 SLOPES AND DEPRESSIONS.





- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS—ON—GRADE.
- SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

WALL ANCHOR SCHEDULE

| WALL ANOHOR SOFILBULL | | | | |
|---|------------|----------------|-----------|------------|
| 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 INTO HEADER BLOCK | 4" | 4'-6" | NO | YES |
| 1/2"ø THREADED ROD w/ | 7" | 6'-0" | YES | YES |
| w/ SST SET-XP EPOXY | | | | |
| 1/2"ø SST TITEN HD INTO CONC. | 4-1/4" | 6'-0" | NO | YES |
| 1/2"ø SST TITEN HD INTO MAS. | 4-1/2" | 4'-8" | YES | NO NO |
| 1/2"ø THREADED ROD w/ w/ SST SET-XP EPOXY 1/2"ø SST TITEN HD INTO CONC. | 7" | 6'-0" 6'-0" | YES NO | YES YES |

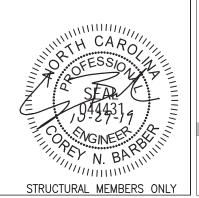
NOTE

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

STEM WALL FOOTING WIDTH

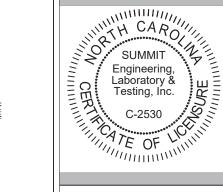
| SIEM WALL FOUTING WIDTH | | | | |
|-------------------------|--------------------------------------|------|------|--|
| # OF STORIES | WIDTH BASED ON SOIL BEARING CAPACITY | | | |
| | 1500 PSF 2000 PSF 2500 PSF | | | |
| 1 STORY - STD. | 16" | 16" | 16" | |
| 1 STORY - BRICK VENEER | 21"* | 21"* | 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 STEM WALL FOOTING WIDTH FOR BRICK SUPPORT





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Stem Wall Details

CLIENT

LGI Homes
7201 Creedmoor Road, Suite 147
Raleigh, NC 27613

CURRENT DRAWING

Standard Details

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

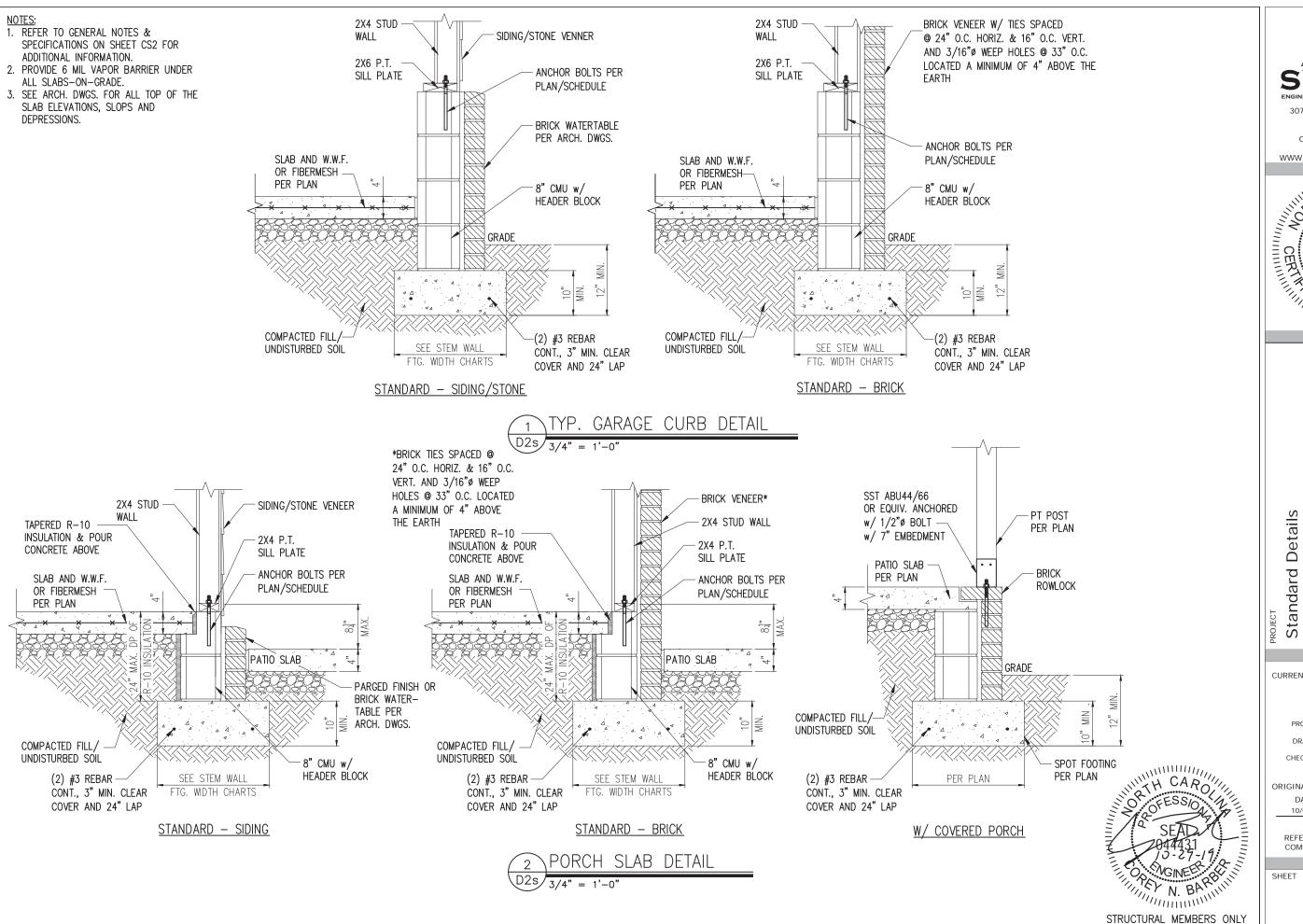
ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

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Stem Wall Details

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LGI Homes
7201 Creedmoor Road, Suite 147

Raleigh, NC 27613

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

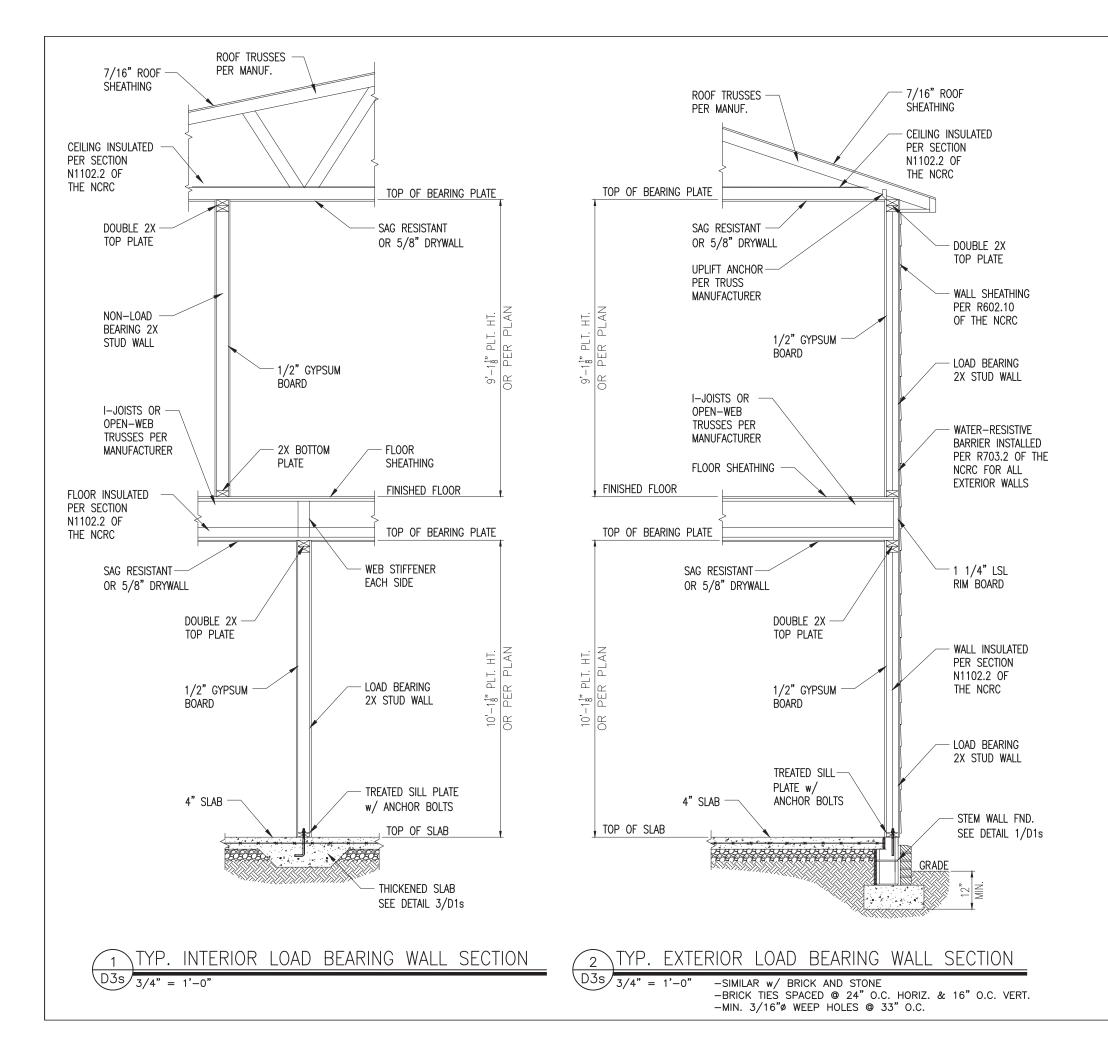
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THE CAROLLING PART SUMMA Eng.
Labora
Testing,
C-2530

> 14 Suite LGI Homes 7201 Creedmoor Road, S Raleigh, NC 27613 Stem Wall Details

DATE: 10/29/19

CURRENT DRAWING

Standard Details

SCALE: NTS PRO IECT #: 1203-08R: 24512R

DRAWN BY: CNB

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ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

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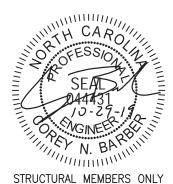
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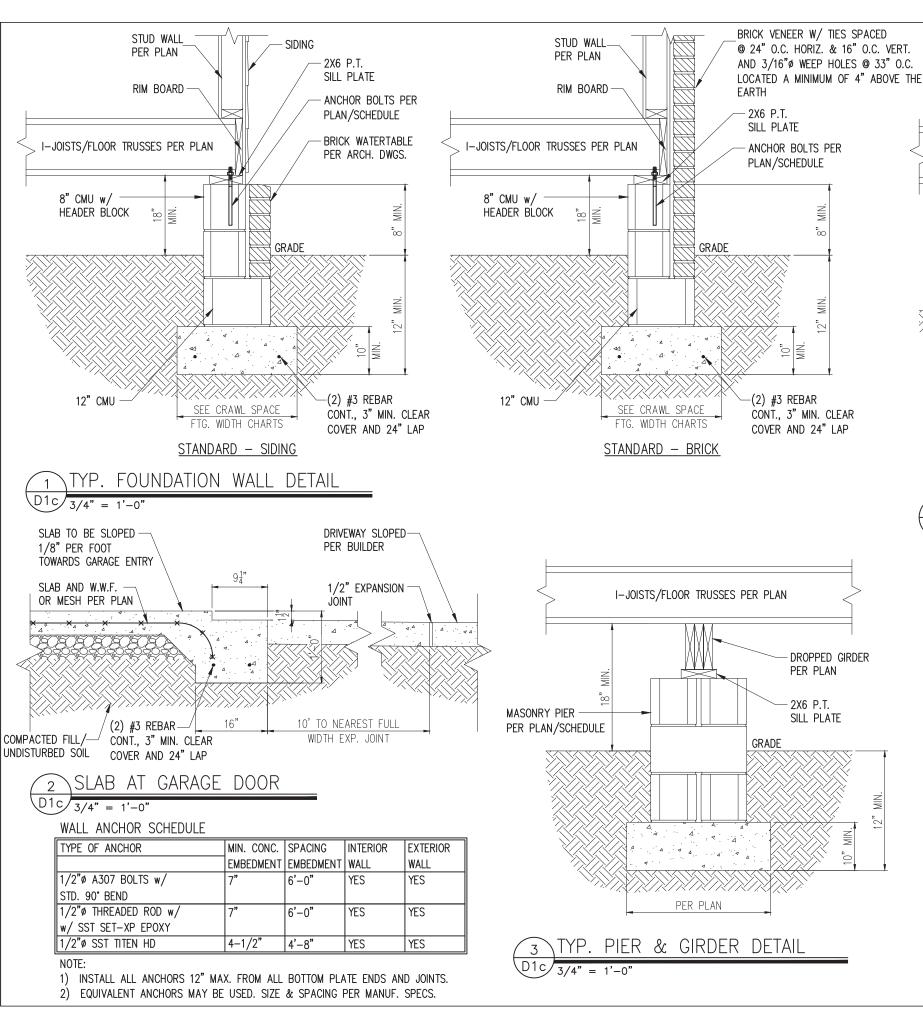
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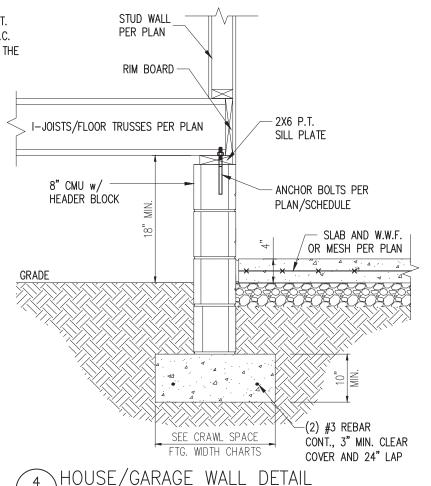
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

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

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





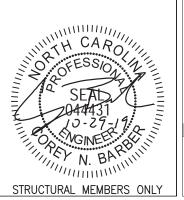


CRAWL SPACE FOOTING WIDTH

| 01171112 017102 1 00 11110 | *************************************** | | | |
|---|---|----------|----------|--|
| # 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 CRAWL SPACE FOOTING WIDTH FOR BRICK SUPPORT | | | | |

IOTES:

- 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, SLOPES AND DEPRESSIONS.





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Crawl Space Details

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LGI Homes
7201 Creedmoor Road, Suite 147
Raleigh, NC 27613

CURRENT DRAWING

Standard Details

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 10/01/19

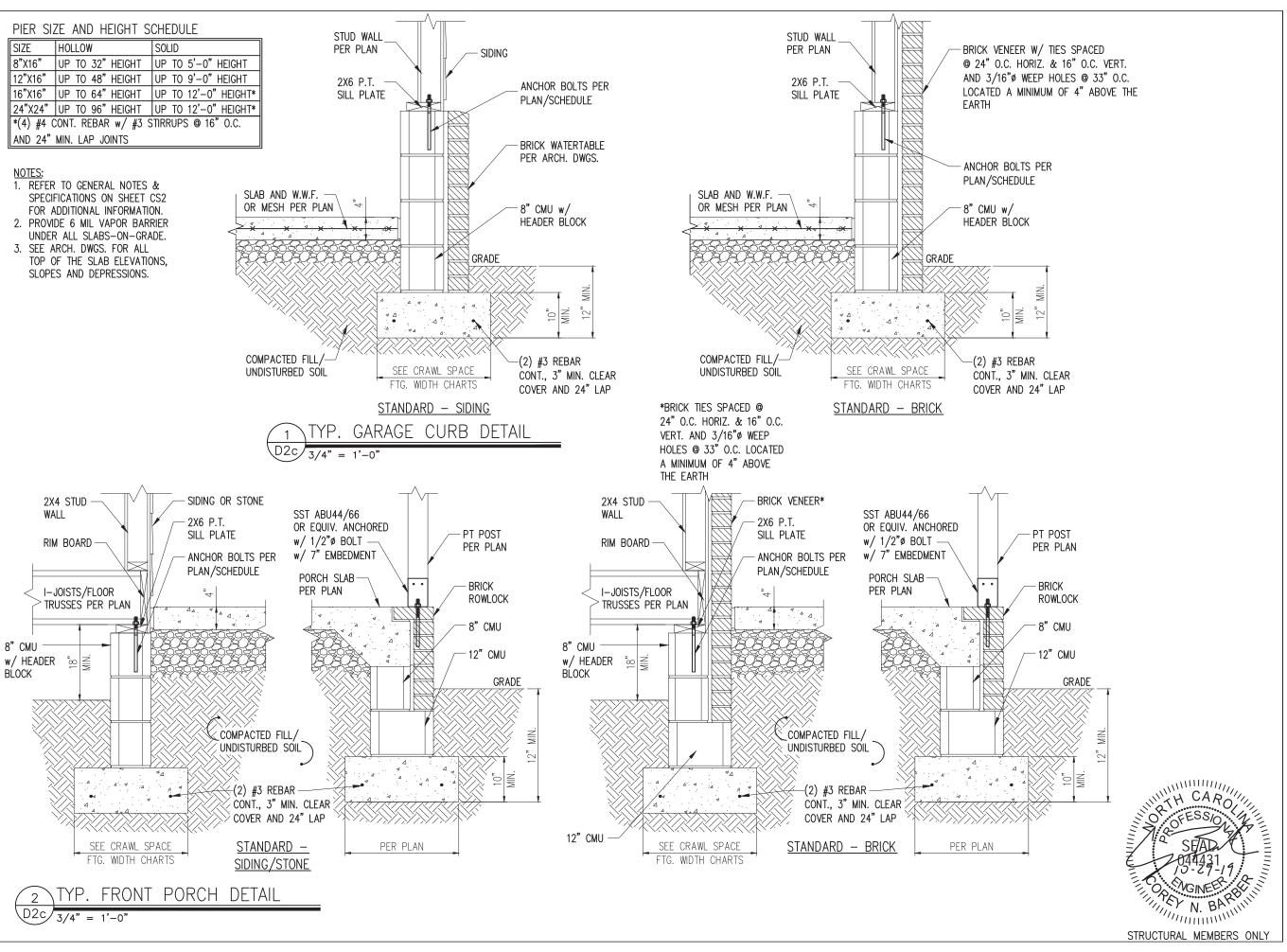
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PROJECT #

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Crawl Space Details

LGI Homes
7201 Creedmoor Road, Suite 147
Raleigh, NC 27613

CURRENT DRAWING

Standard Details

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

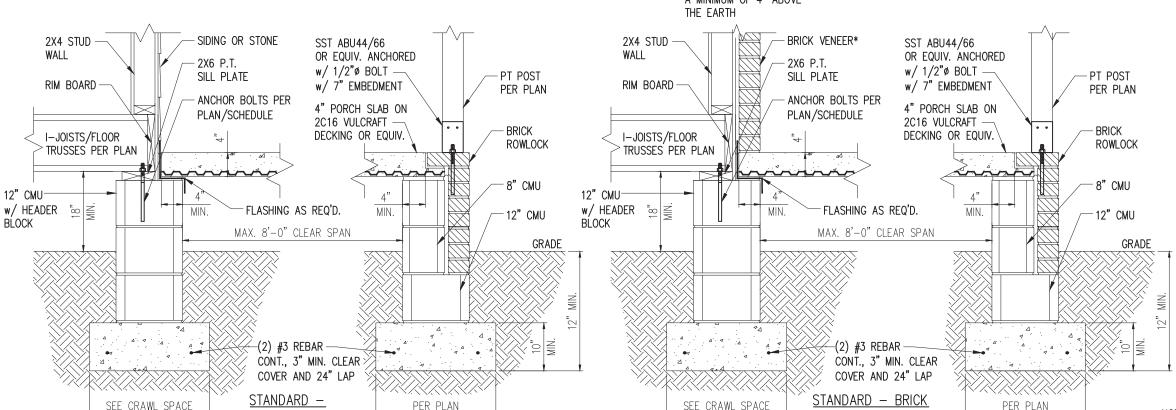
ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D2c



SIDING/STONE

FRONT PORCH DETAIL w/ SUSPENDED SLAB

FTG. WIDTH CHARTS

 $D3c \sqrt{3/4"} = 1'-0"$

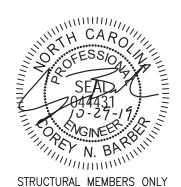
*BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C. LOCATED A MINIMUM OF 4" ABOVE

FTG. WIDTH CHARTS

NOTES:

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,
 SLOPES AND DEPRESSIONS.
- 4. CONTACT SUMMIT, ECS. IF UNBALANCED FILL EXCEEDS 48" AT FOUNDATION WALLS FOR ENGINEERED DESIGN.



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Standard Details
Crawl Space Details
LGI Homes
7201 Creedmoor Road, Suite
Raleigh, NC 27613

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

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ORIGINAL DRAWING

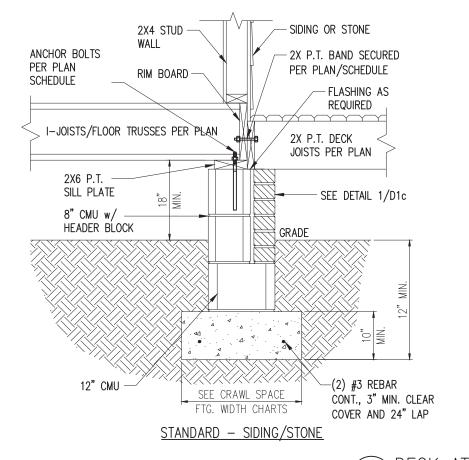
DATE 10/01/19 PROJECT # 24512

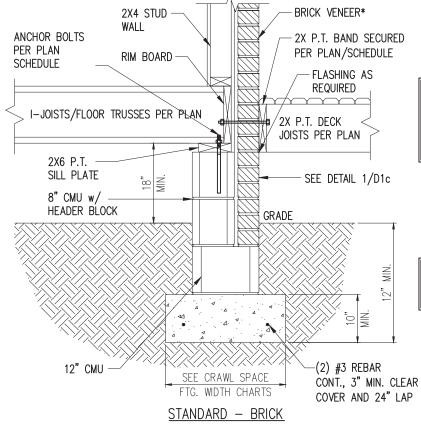
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D3c

*BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT. AND 3/16"ø WEEP HOLES @ 33" O.C. LOCATED A MINIMUM OF 4" ABOVE THE EARTH





DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

| Blanch deliberation (Mile entre Line) | | | | | |
|---------------------------------------|------------------|-------------------|--|--|--|
| FASTENERS | MAX. 8'-0" JOIST | MAX. 16'-0" JOIST | | | |
| | SPAN | SPAN | | | |
| 5/8" GALV. BOLTS w/ NUT & WASHER b | (1) @ 3'-6" O.C. | (1) @ 1'-8" O.C. | | | |
| AND | AND | AND | | | |
| 12d COMMON GALV. NAILS C | (2) @ 8" O.C. | (3) @ 6" O.C. | | | |
| | | | | | |

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS 23".
- c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF $1\frac{17}{2}$

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

| FASTENERS | MAX. 8'-0" JOIST | MAX. 16'-0" JOIST |
|---|------------------|-------------------|
| | SPAN | SPAN |
| 5/8" GALV. BOLTS w/ NUT & WASHER ^b | (1) @ 2'-4" O.C. | (1) @ 1'-4" O.C. |

a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.

b. MINIMUM EDGE DISTANCE FOR BOLTS IS $2\frac{1}{2}$ ".

DECK ATTACHMENT DETAIL

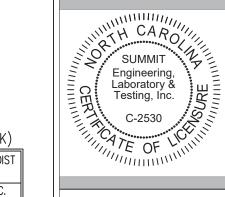
NOTES:

- UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL





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

CURRENT DRAWING

Standard Details

DATE: 10/29/19

SCALE: NTS

Space Details

Crawl

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

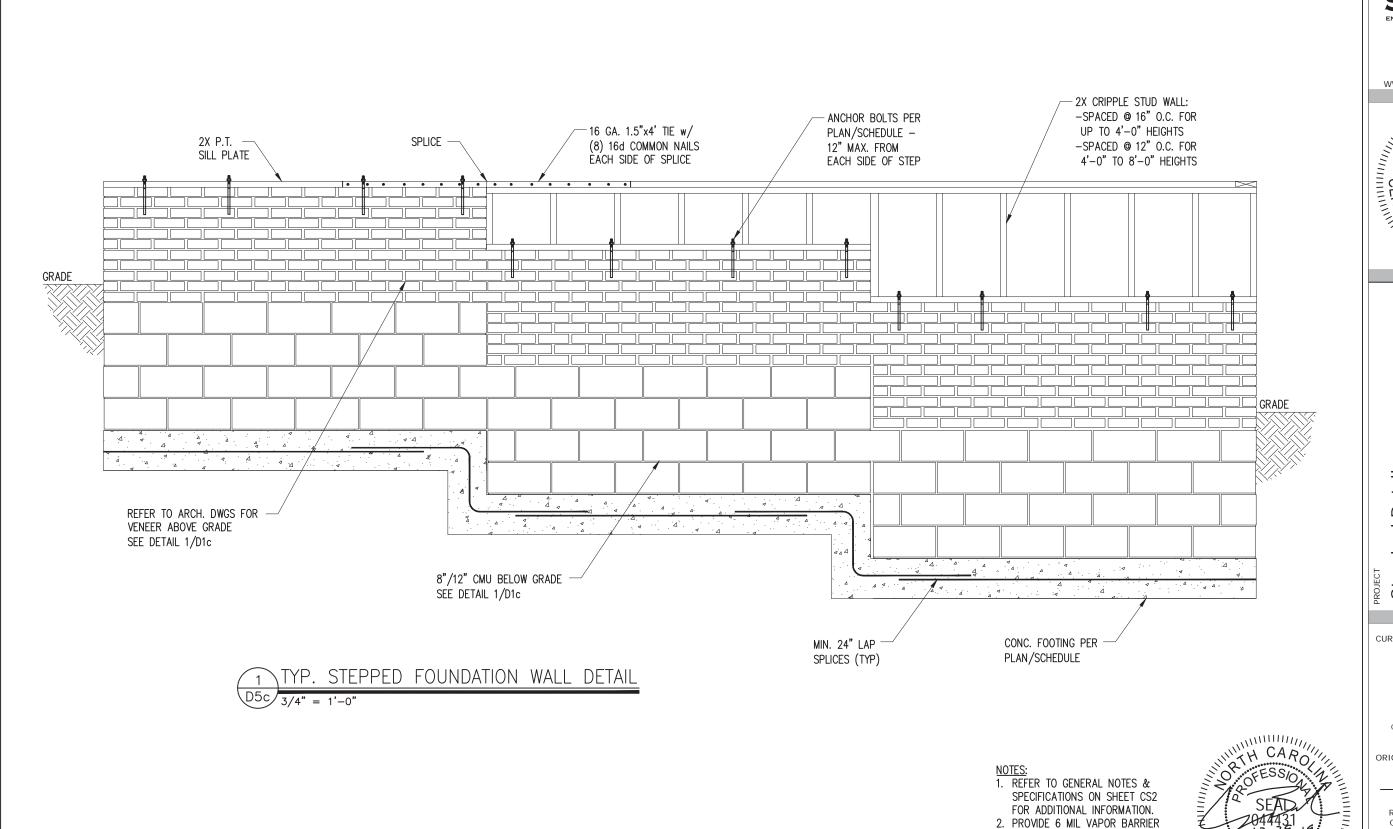
PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4c

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION. 2. PROVIDE 6 MIL VAPOR BARRIER

TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



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Suite LGI Homes 7201 Creedmoor Road, S Raleigh, NC 27613 Details Standard Details Crawl Space

147

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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STRUCTURAL MEMBERS ONLY

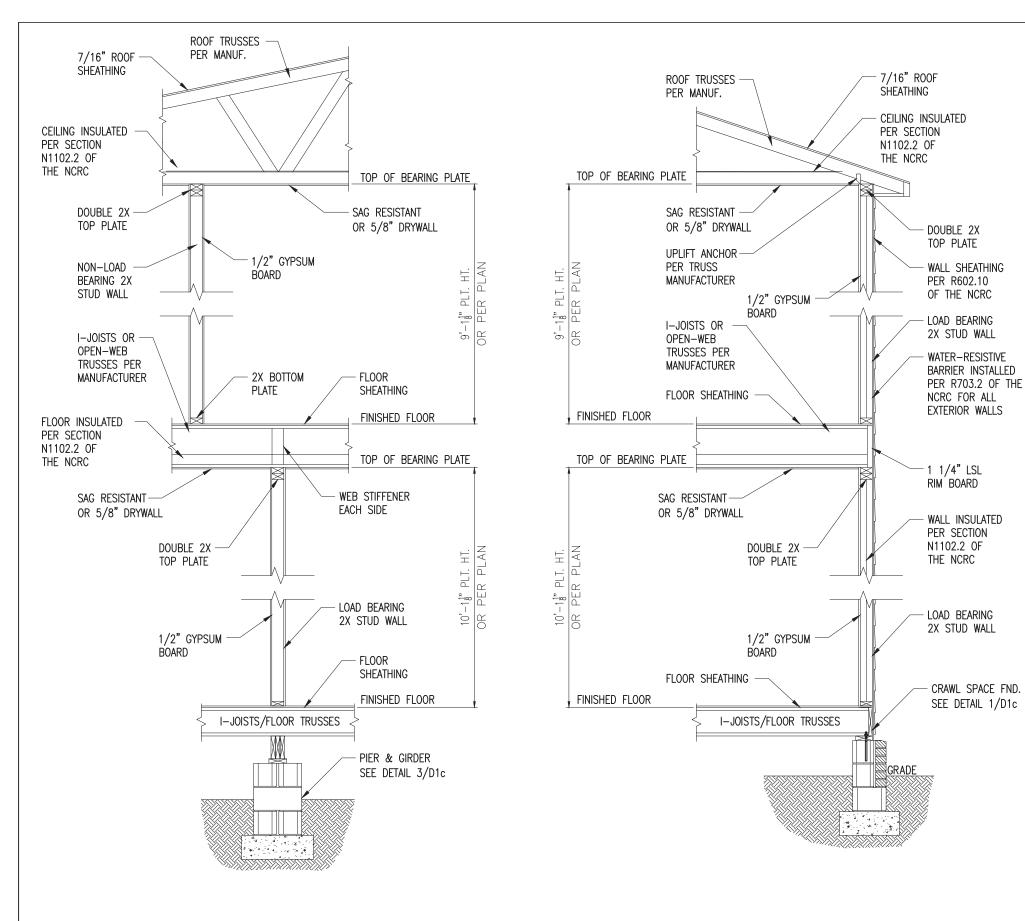
UNDER ALL SLABS-ON-GRADE.

TOP OF THE SLAB ELEVATIONS,

3. SEE ARCH. DWGS. FOR ALL

SLOPES AND DEPRESSIONS.

D₅c





D6c -SIMILAR w/ BRICK AND STONE

-BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT. -MIN. 3/16" WEEP HOLES @ 33" O.C.

TYP. EXTERIOR LOAD BEARING WALL SECTION

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Testing,
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> Suite Road, 3 Details CLIENT LGI Homes 7201 Creedmoor F Raleigh, NC 27613 Space Crawl

14

CURRENT DRAWING

Standard Details

NOTES:

1. REFER TO GENERAL NOTES &

2. PROVIDE 6 MIL VAPOR BARRIER

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

SLOPES AND DEPRESSIONS.

UNDER ALL SLABS-ON-GRADE.

TH CAROLLING NTH CARO

W. D. D.

STRUCTURAL MEMBERS ONLY

SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.

DATE: 10/29/19

SCALE: NTS

PRO IECT #: 1203-08R: 24512R

DRAWN BY: CNB

CHECKED BY: WAJ

ORIGINAL DRAWING

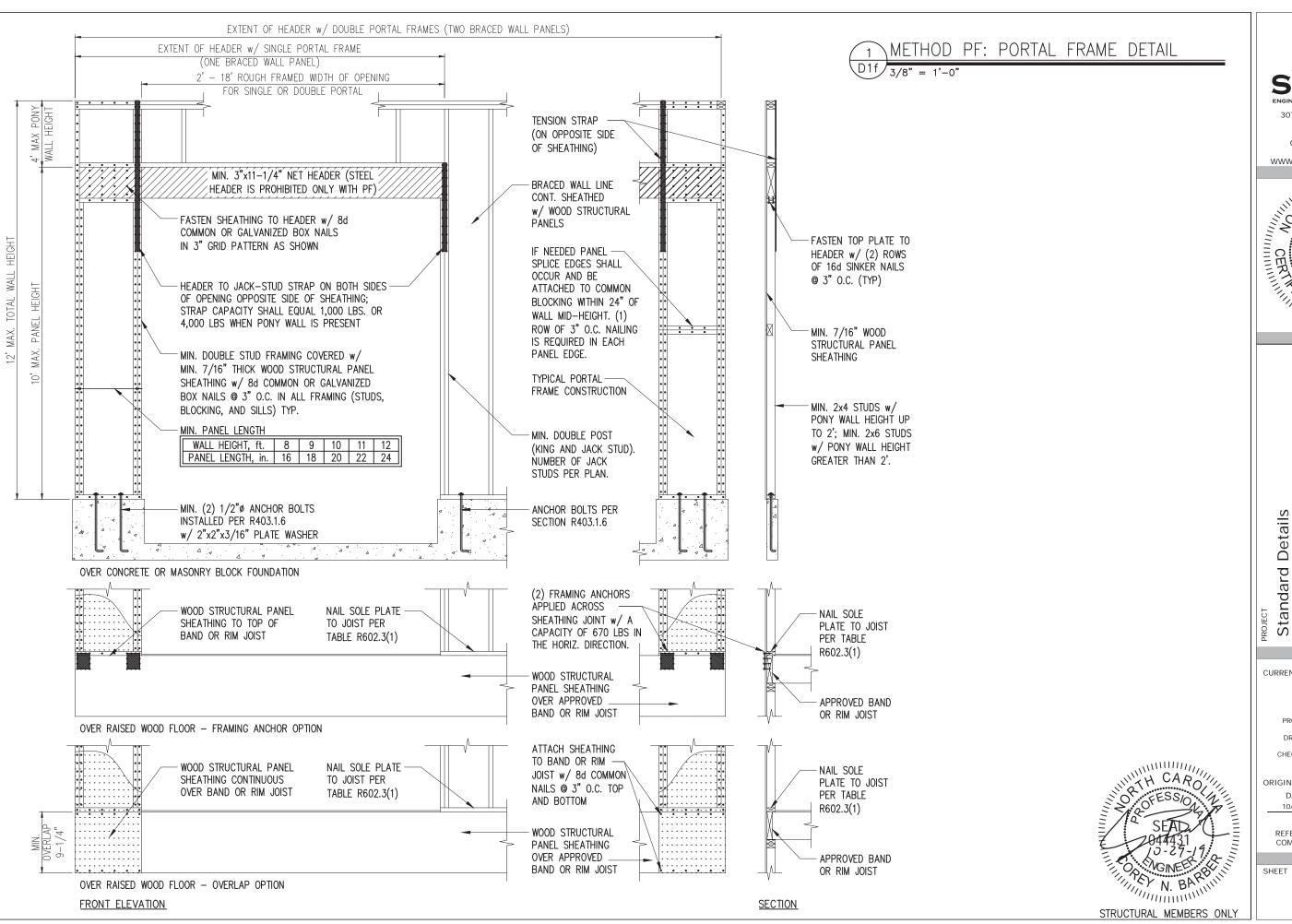
DATE 10/01/19 PROJECT # 24512

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

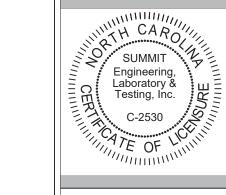
D₆c

TYP. INTERIOR LOAD BEARING WALL SECTION D6c/3/4" = 1'-0"





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4

CURRENT DRAWING

Details

Framing

DATE: 10/29/19

SCALE: NTS

PRO IECT #: 1203-08R: 24512R

DRAWN BY: CNB

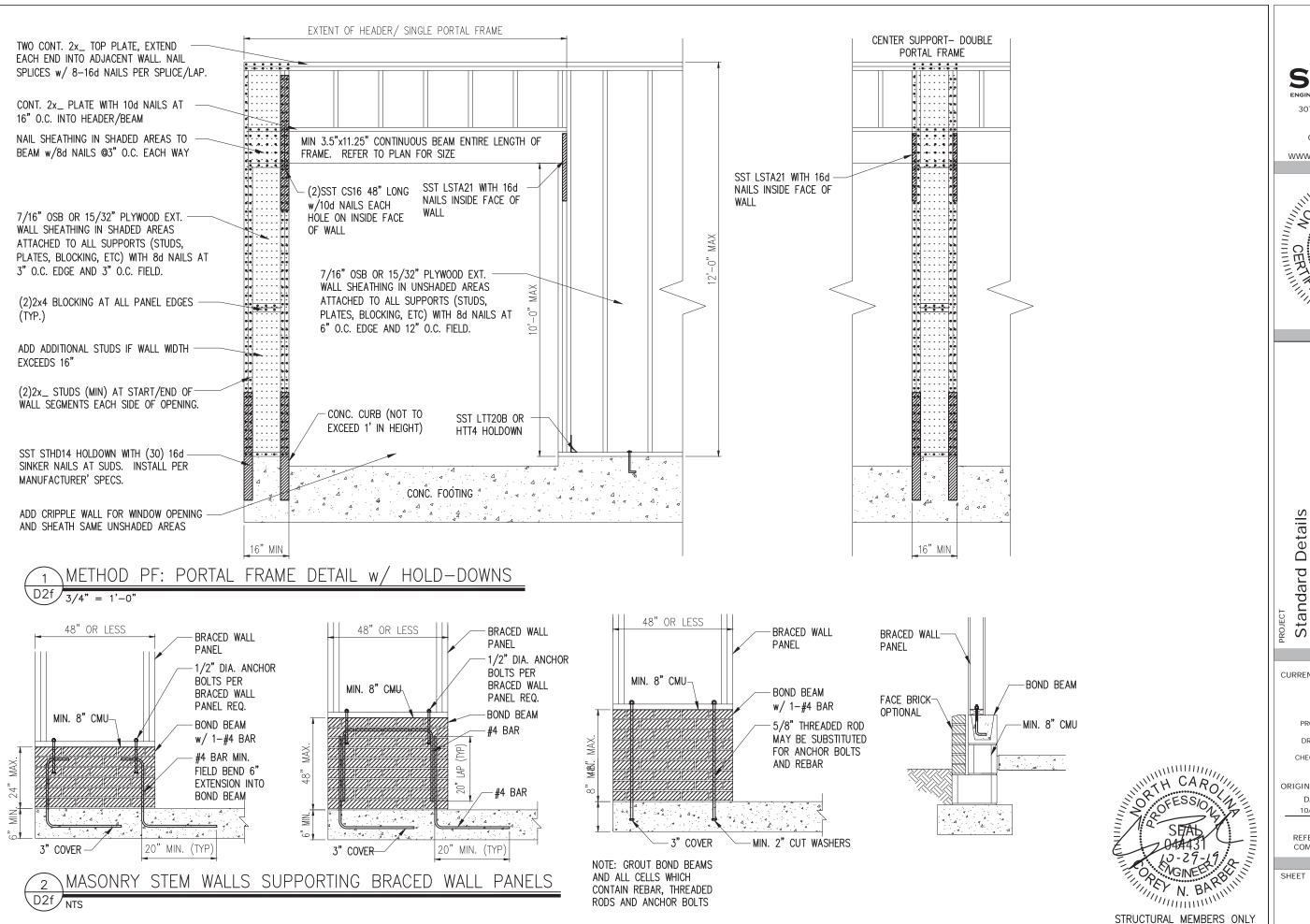
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DATE 10/01/19 PROJECT # 24512

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4

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PRO IECT #: 1203-08R: 24512R

DRAWN BY: CNB

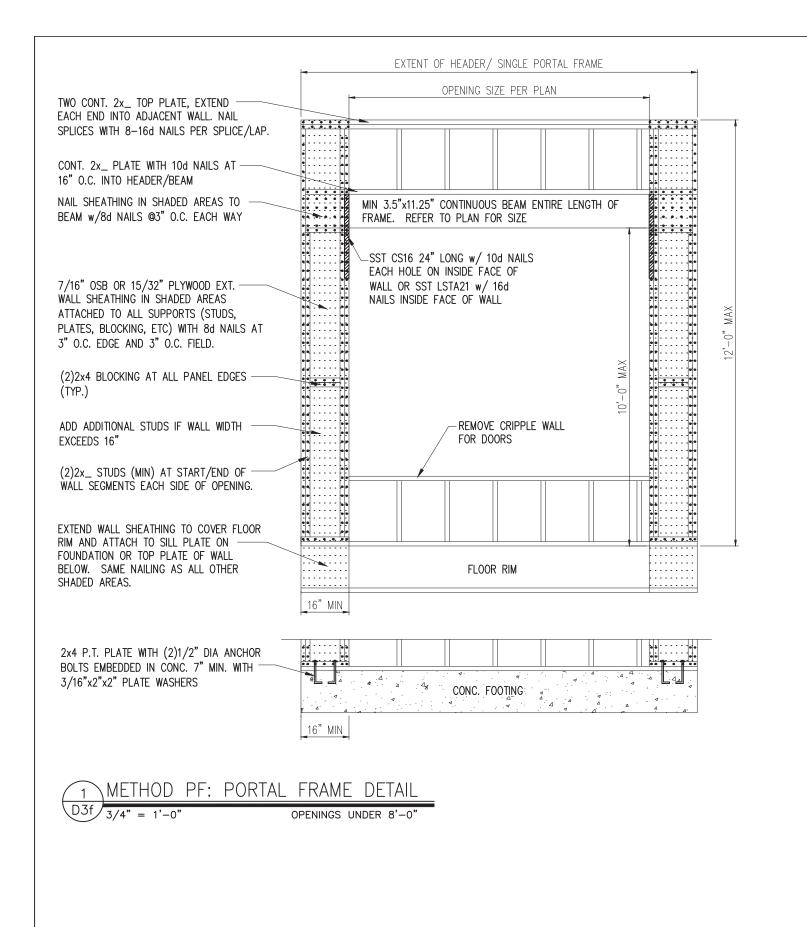
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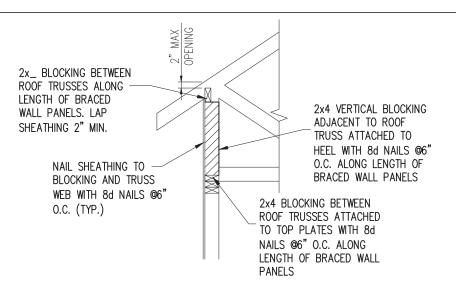
ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

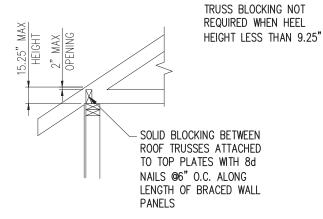
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D₂f





HEEL HEIGHT BETWEEN 15.25" AND 48"

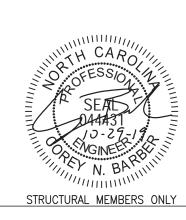


HEEL HEIGHT BETWEEN 9.25" AND 15.25"

TYP. WALL PANEL TO

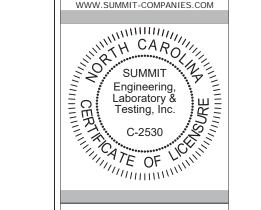
2 ROOF TRUSS CONNECTION

1" = 1'-0"





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Framing Details - Bracing
LGI Homes
7201 Creedmoor Road, Suite 147
Raleigh, NC 27613

CURRENT DRAWING

DATE: 10/29/19

SCALE: NTS

PROJECT #: 1203-08R: 24512R

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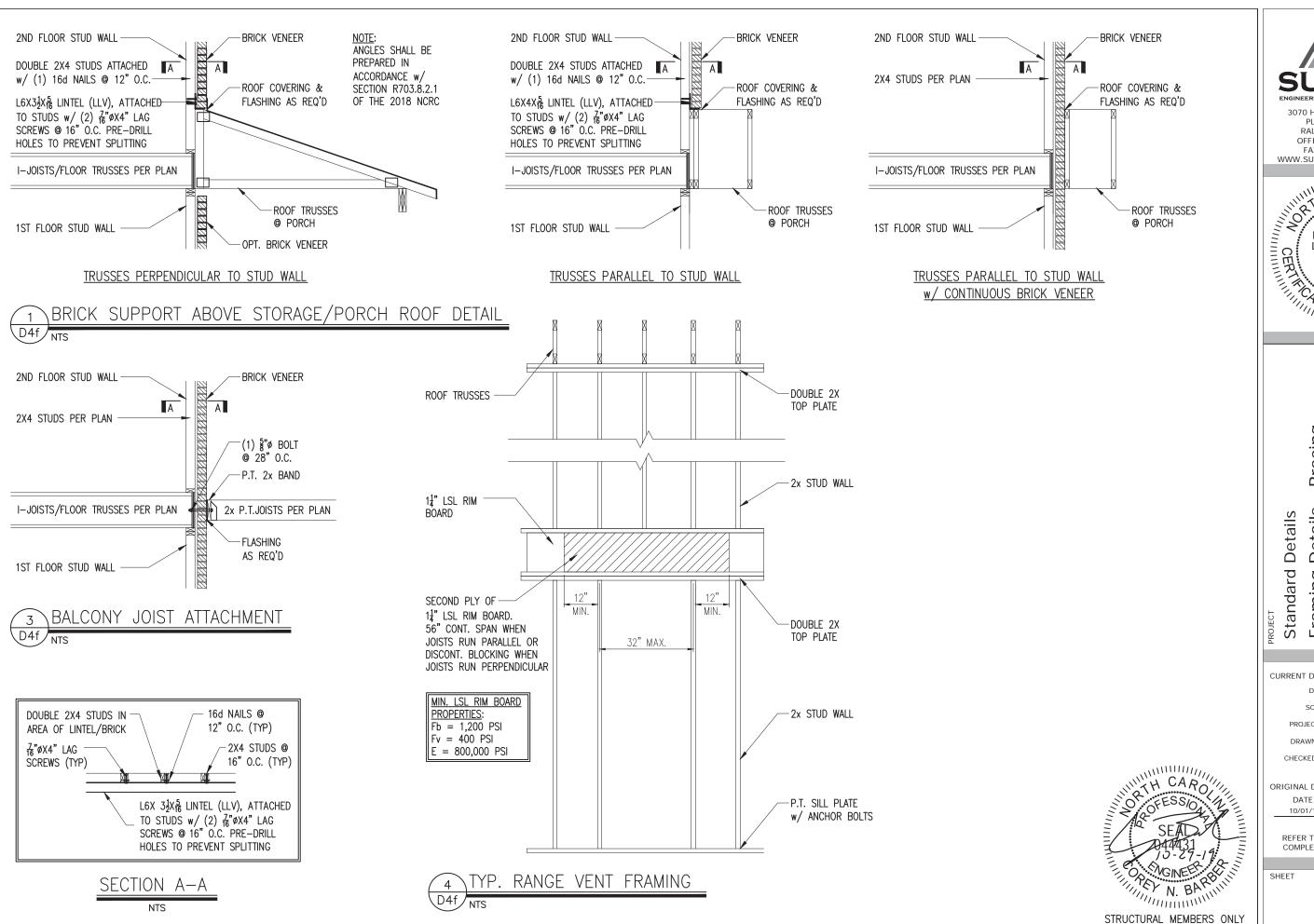
ORIGINAL DRAWING

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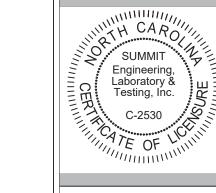
SHEET

D3f



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147 Suite Bracing Road, 3 CLIENT LGI Homes 7201 Creedmoor R Raleigh, NC 27613 Details Framing

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SCALE: NTS

PRO IECT #: 1203-08R: 24512R

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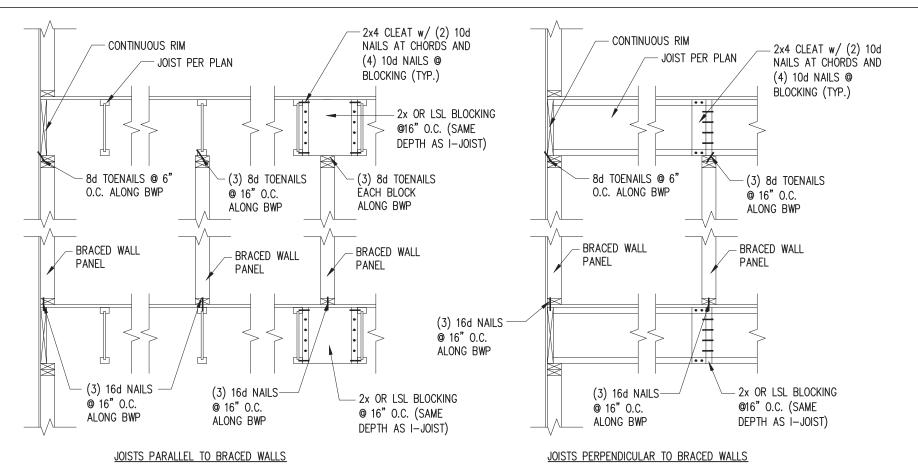
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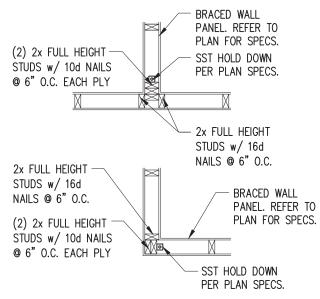
10/01/19

PROJECT # 24512

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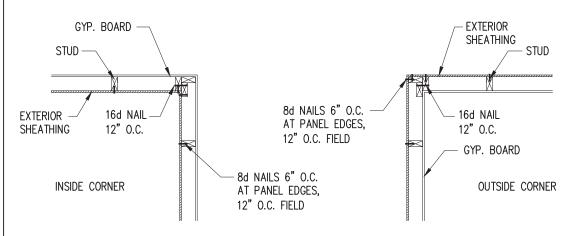
D4f

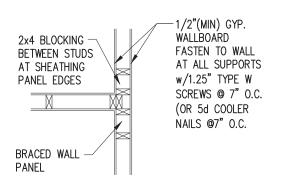




 $\begin{array}{c}
4 \\
D5f \\
1" = 1'-0"
\end{array}$

TYP. WALL PANEL TO FLOOR/CEILING CONNECTION D5f

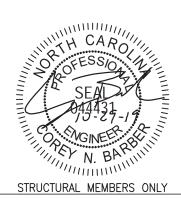




2 TYP. EXTERIOR CORNER FRAMING

3 INTERIOR 3-STUD WALL INTERSECTION

D5f 1" = 1'-0"





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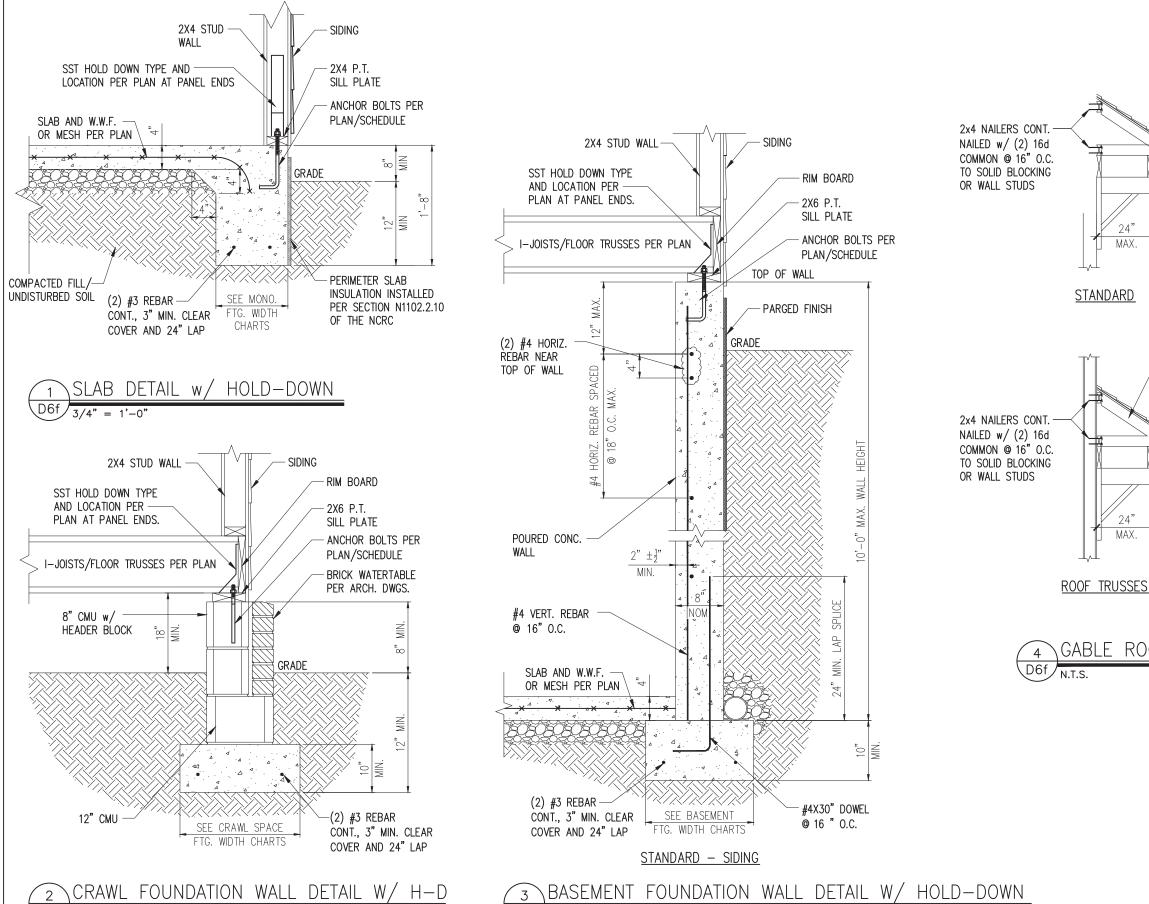
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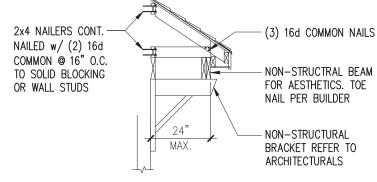
DATE 10/01/19 PROJECT # 24512

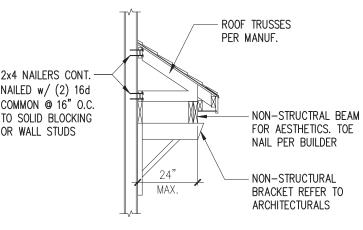
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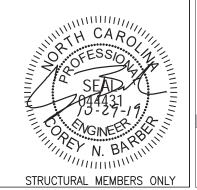
D5f













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147

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PRO IECT #: 1203-08R: 24512R

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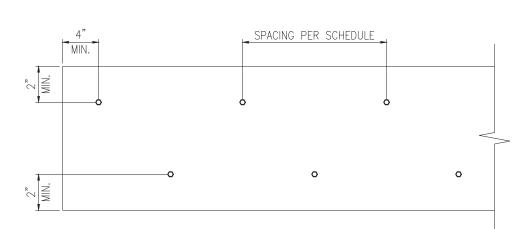
CHECKED BY: WAJ

ORIGINAL DRAWING

DATE 10/01/19 PROJECT # 24512

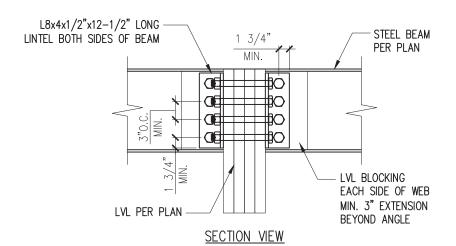
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

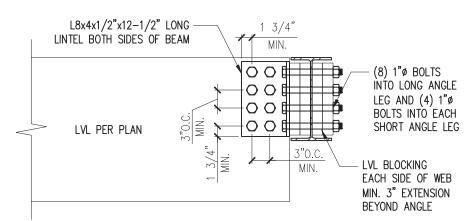
D6f



ELEVATION VIEW

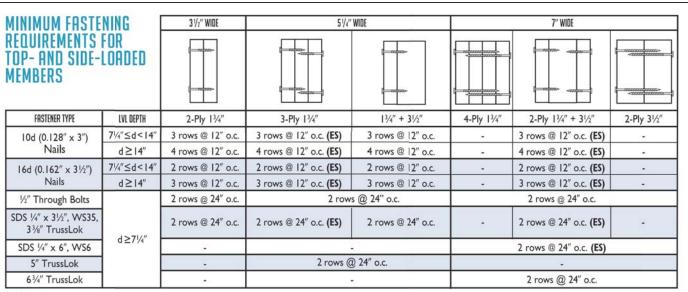
MULTI-PLY BEAM CONNECTION DETAIL D7f N.T.S





ELEVATION VIEW

2 LVL TO STEEL DETAIL D7f N.T.S



NOTES:

STEEL TO STEEL DETAIL

- 1.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.
- ${\it 3.} Three\ general\ rules\ for\ staggering\ or\ offsetting\ for\ a\ certain\ fastener\ schedule:$
- (1) 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

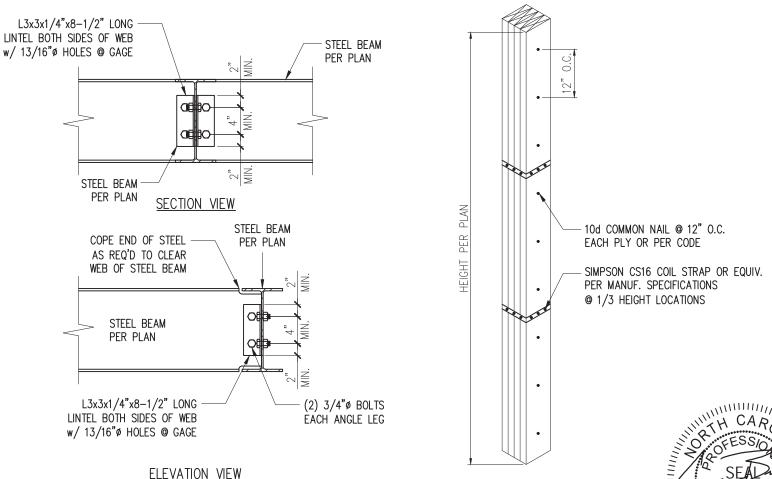
MULTI-PLY STUD

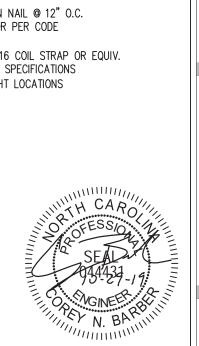
N.T.S

CONNECTION DETAIL

4+ PLIES

(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).

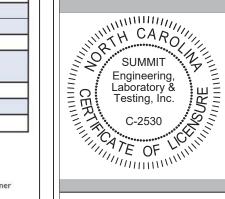




STRUCTURAL MEMBERS ONLY



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ORIGINAL DRAWING

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SHEET

D7f