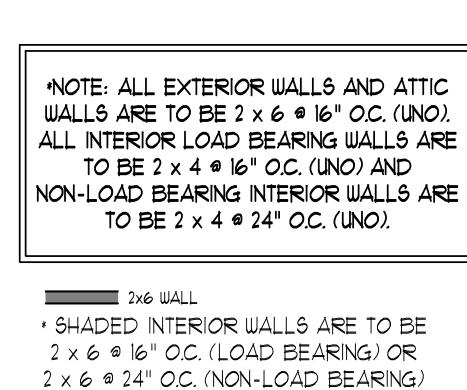
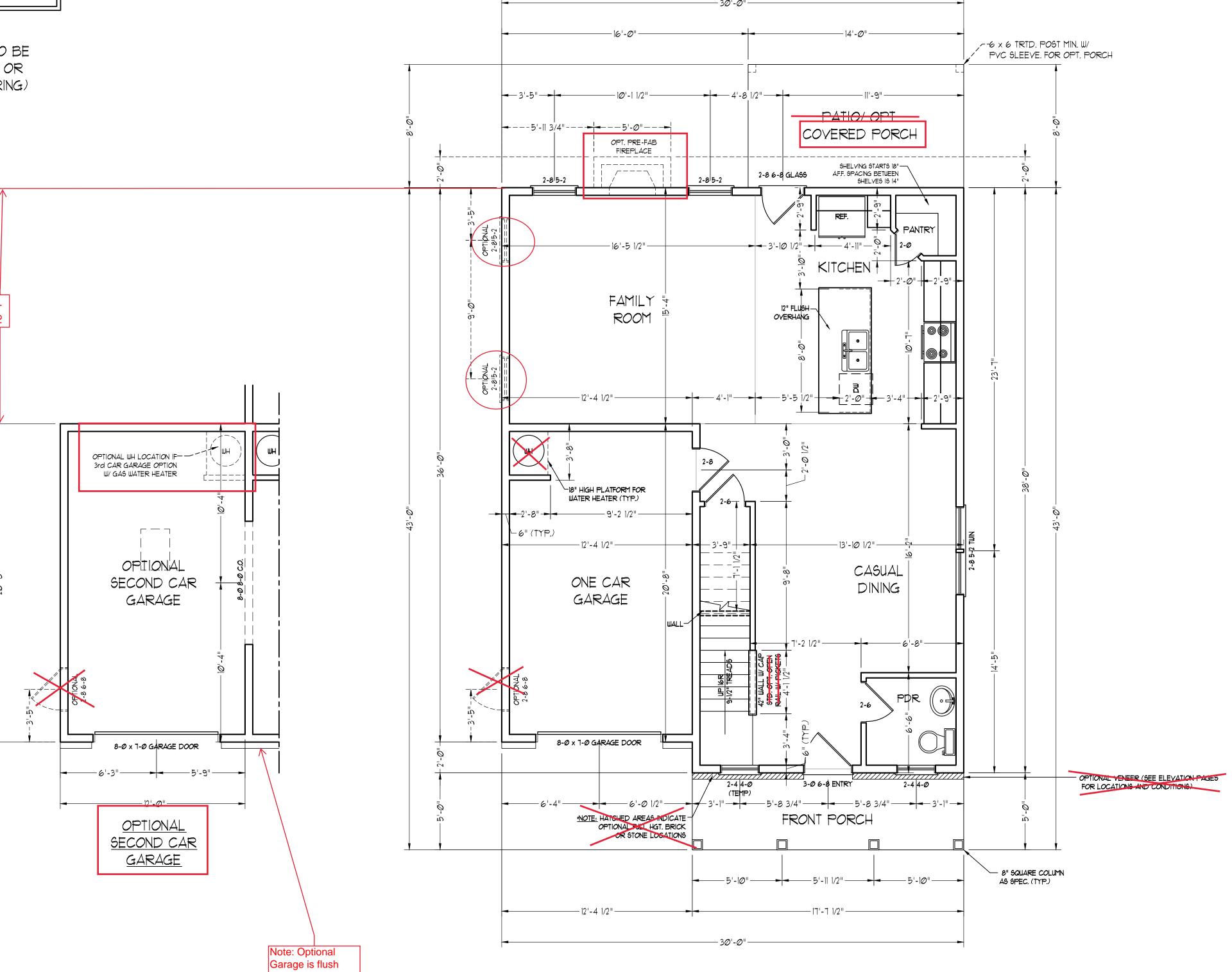


C:\Users\Wade\Documents\Projects\A&G\Hampton\Hampton_GL_2-10-20.dwg, 3/12/2020 6:13:05 AM





across front

SQUARE FOOTAGE (STANDARD)

1st FLOOR: 866 SQ. FT. 1115 SQ. FT. 2nd FLOOR: 1981 SQ. FT. TOTAL: 250 SQ. FT. GARAGE: 88 SQ. FT. FRONT PORCH: 112 SQ. FT. COVERED PORCH OPT. 2nd CAR GARAGE: 256 SQ. FT.

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N.C. CERTIFICATE NO.: C-1733



A&G RESIDENTIAL HAMPTON DRIVE LEFT

DATE: MARCH 9, 2020

SCALE: 1/4"=1'-0"

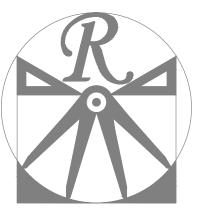
DRAWN BY: WG

ENGINEERED BY: WFB

REVIEWED BY: MGS

FIRST FLOOR PLAN

*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" O.C. (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO). 2x6 WALL * SHADED INTERIOR WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING)



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A&G RESIDENTIAL HAMPTON DRIVE LEFT

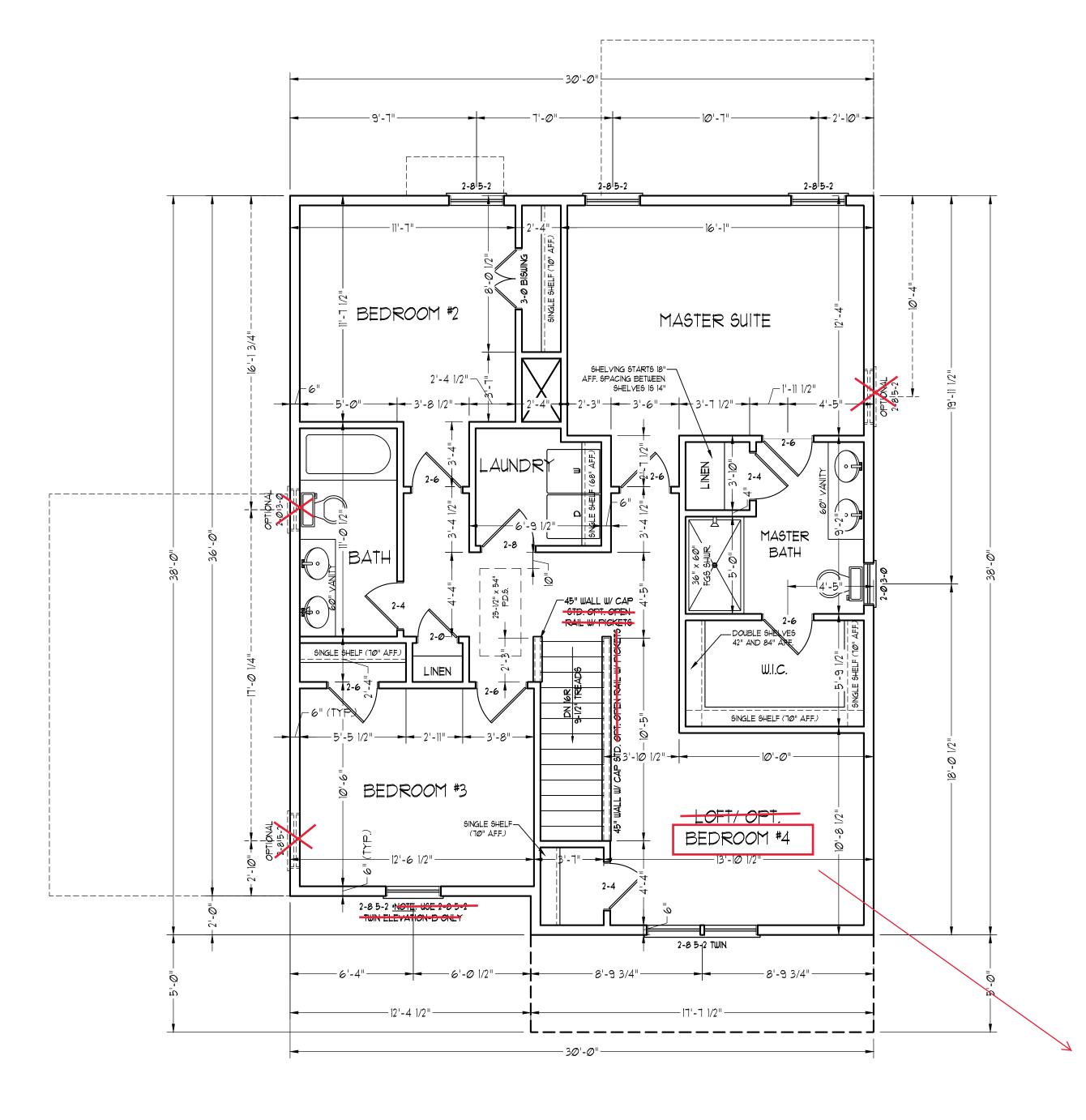
DATE: MARCH 9, 2020

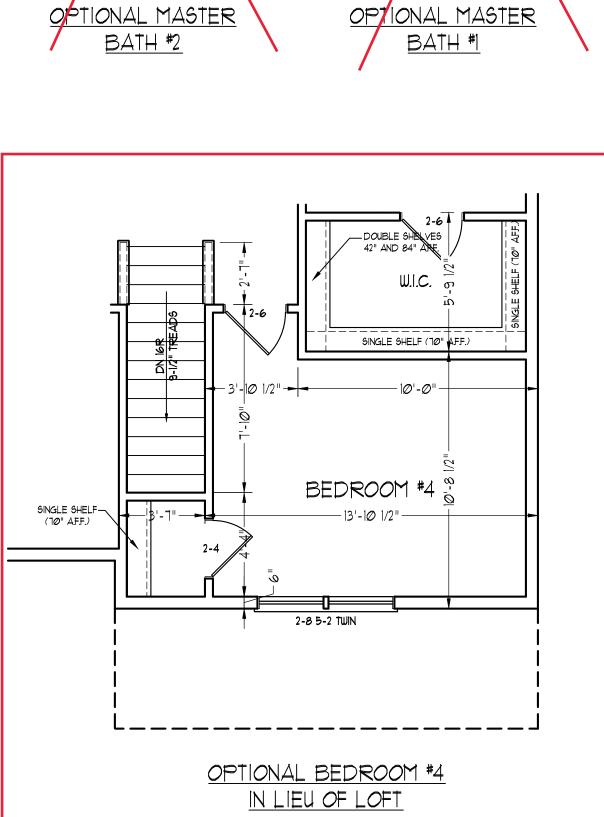
SCALE: 1/4"=1'-0" DRAWN BY: WG

ENGINEERED BY: WFB REVIEWED BY: MGS

SECOND FLOOR PLAN

A-5

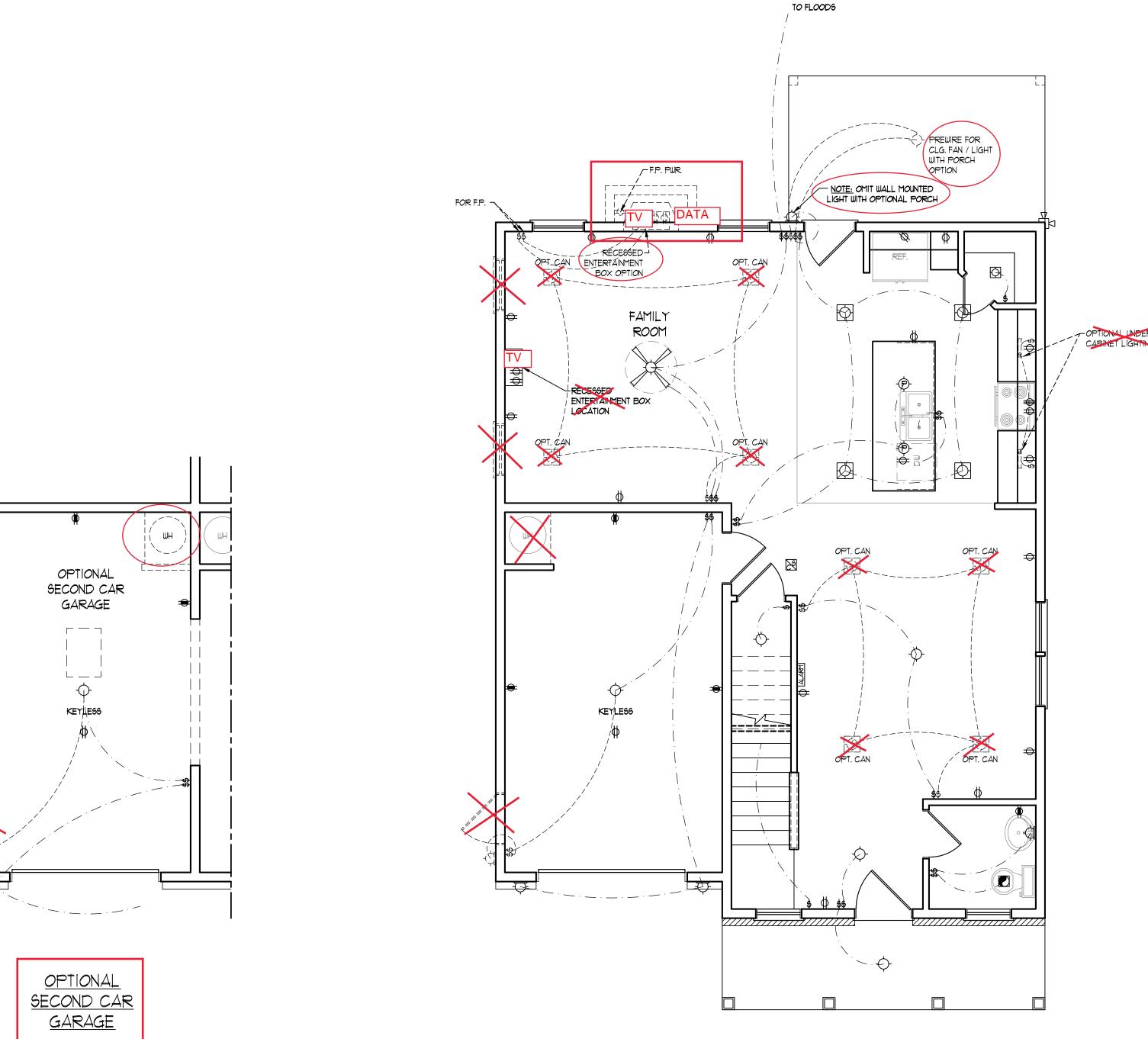


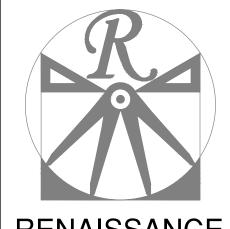


SINGLE SHELF (70" AFF.)

OPTIONAL MASTER

SINGLE SHELF (70" AFF.)





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ELECTRICAL LAYOUT NOTES:

1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET

3.) ADDITIONAL EXTERIOR OUTLETS

4.) PLACE SWITCHES 8" (MIN.) FROM

REQUIRED BY CODE TO BE

LOCATED BY ELECTRICIAN.

@ 90" A.F.F. (TYP.)

ROUGH OPENINGS.

ELECTRICAL LEGEND

⇒ IIØ ∨ OUTLET

4-PLEX

 ⇒
 IIØ ∨ GFI OUTLET

₩EATHERPROOF **⇒** 22*0* ∨ *O*UTLET

= 110 V SWITCHED OUTLET

BB 👄 110 V BASEBOARD OUTLET

COUNTER OR FLOOR MOUNTED

Ø 110 V DEDICATED CIRCUIT

220 V DEDICATED CIRCUIT

- WALL MOUNT LIGHT

(P)- PENDANT LIGHT

MINI CAN LIGHT

EYEBALL LIGHT

FLUORESCENT LIGHT undercabinet light FLOOD LIGHT

\$D DIMMER SWITCH

TV- TV CONNECTION

TV/ DATA

SP SPEAKER

EXHAUST FAN

TELEPHONE AND DATA

CD- CONDUIT FOR COMPONENT WIRING

MOKE/CM DETECTOR

5D 110 Y SMOKE DETECTOR

LOW VOLTAGE PANEL

CEILING FAN W/ LIGHT

ALARM PANEL

TELEPHONE

\$ SWITCH

 \triangle data

RECESSED CAN LIGHT

● SPECIAL PURPOSE (240 V, ETC.)

COUNTER OR FLOOR MOUNTED 110V GF1

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N.C. CERTIFICATE NO.: C-1733



A&G RESIDENTIAL HAMPTON DRIVE LEFT

DATE: MARCH 9, 2020

REV.:

SCALE: 1/4"=1'-0"

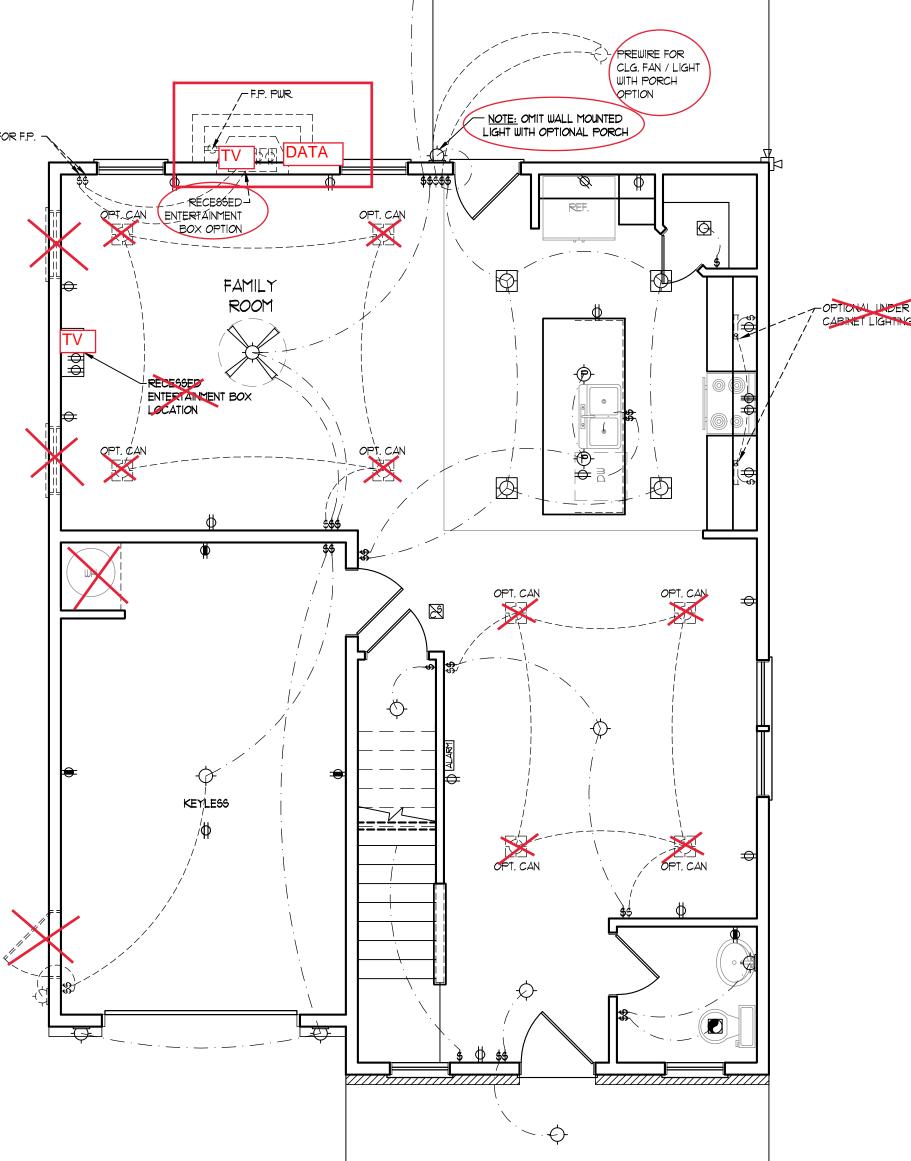
DRAWN BY: WG

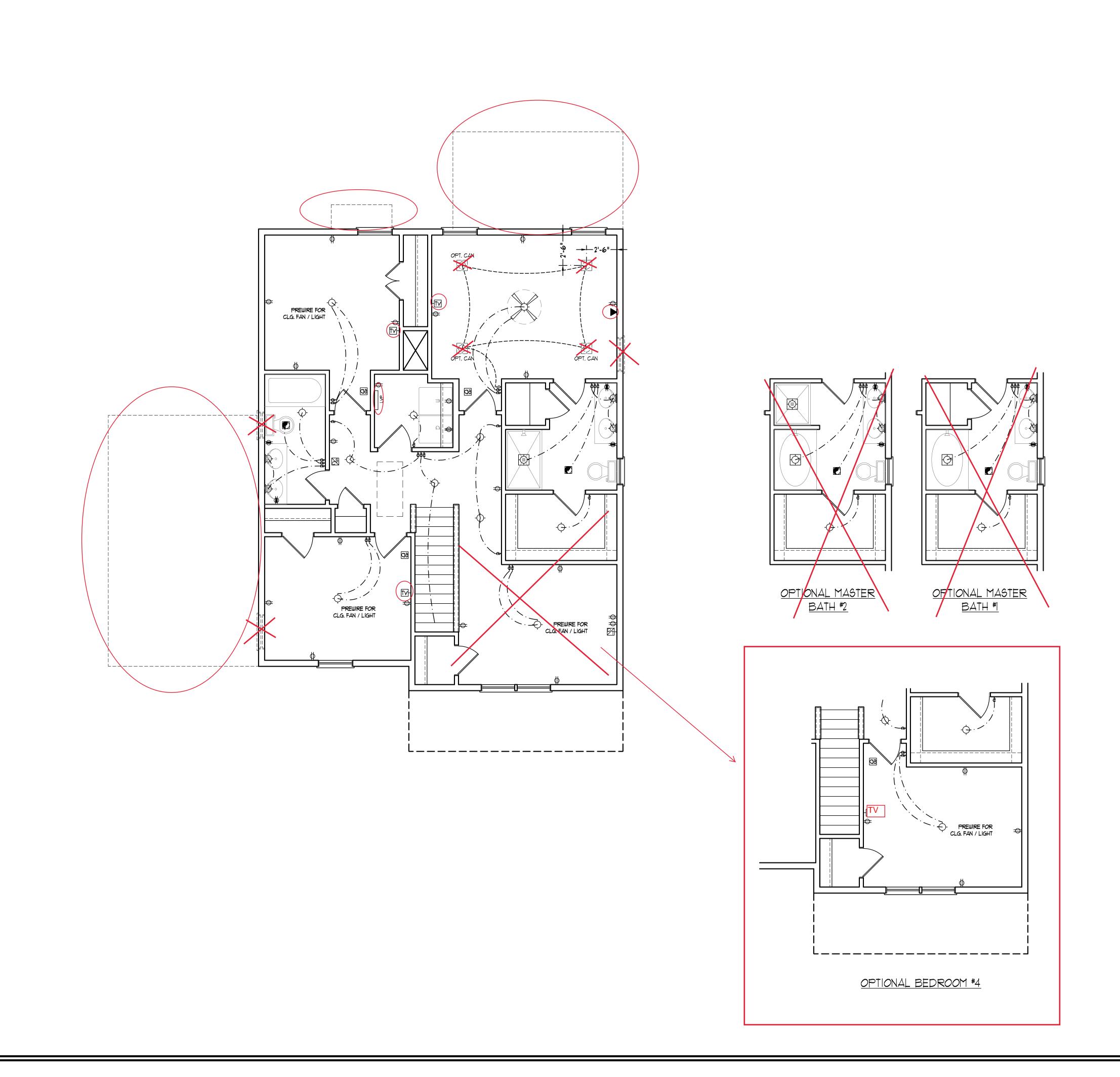
ENGINEERED BY: WFB

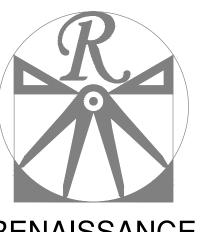
REVIEWED BY: MGS

FIRST FLOOR ELECTRICAL PLAN

E-1







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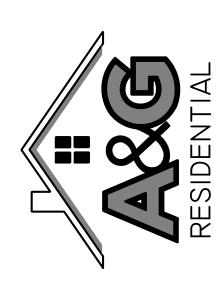
ARCHITECTURAL CONCEPT ONLY. RENAISSANCE RESIDENTIAL DESIGN, INC.

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RESIDENT PTON

DATE: MARCH 9, 2020

SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WFB REVIEWED BY: MGS

SECOND FLOOR

ELECTRICAL PLAN

 →
 IIØ ∨ OUTLET

4-PLEX

₩EATHERPROOF **⇒** 220 ∨ OUTLET

- WALL MOUNT LIGHT

-P- PENDANT LIGHT

MINI CAN LIGHT

EYEBALL LIGHT

FLUORESCENT LIGHT

□ UNDERCABINET LIGHT

RECESSED CAN LIGHT

😝 110 V GF1 OUTLET

 →
 IIØ ∨ SWITCHED OUTLET

BB 👄 IIØ V BASEBOARD OUTLET

COUNTER OR FLOOR MOUNTED

Ø 110 V DEDICATED CIRCUIT

220 V DEDICATED CIRCUIT

● SPECIAL PURPOSE (240 V, ETC.)

COUNTER OR FLOOR MOUNTED 110V GF1

ELECTRICAL LAYOUT NOTES:

1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET @ 90" AFF. (TYP.)

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

FLOOD LIGHT

\$D DIMMER SWITCH

TV- TV CONNECTION

TV/ DATA

SP SPEAKER

EXHAUST FAN

▲ TELEPHONE AND DATA

CD- CONDUIT FOR COMPONENT WIRING

☑ IIØ V SMOKE/ CO DETECTOR

SD 110 V SMOKE DETECTOR

LOW VOLTAGE PANEL

CEILING FAN W/ LIGHT

ALARM PANEL

TELEPHONE

\$ SWITCH

 \triangle data

No Pedestrian



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&G RESIDENTIAI AMPTON RIVE LEFT

DATE: MARCH 9, 2020

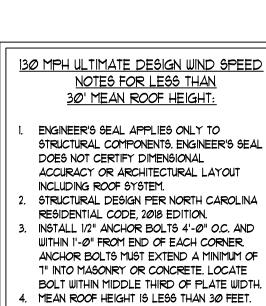
REV.:

SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WFB REVIEWED BY: MGS

STEMWALL SLAB FOUNDATION PLAN



5. EXTERIOR WALLS DESIGNED FOR 130 MPH 6. WALL CLADDING DESIGNED FOR +18.2 PSF AND -24 PSF (+/- INDICATE POSITIVE /

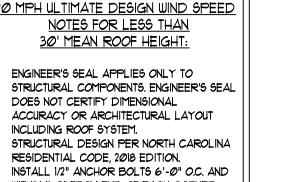
NEGATIVE PRESSURE (TYP). . ROOF CLADDING DESIGNED FOR +16.7 PSF AND -21 PSF FOR ROOF PITCHES 1/12 TO 12/12 AND +10.5 PSF AND -43 PSF FOR ROOF PITCHED 2.25/12 TO 1/12. 8. INSTALL 1/16" OSB SHEATHING ON ALL

EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION. B. ENERGY EFFICIENCY COMPLIANCE AND

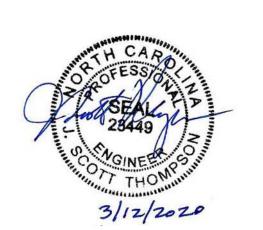
INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION. 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN

- DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
- RESIDENTIAL CODE, 2018 EDITION.
- 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.5. EXTERIOR WALLS DESIGNED FOR 120 MPH
- ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18 PSF FOR ROOF PITCHES 1/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO 1/12.



- STRUCTURAL DESIGN PER NORTH CAROLINA . INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER.
- ANCHOR BOLTS MUST EXTEND A MINIMUM OF 1" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- 6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).
- 8. INSTALL 1/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- 9. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.
- 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.





5" BRICK LEDGE FOR OPTIONAL VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)

COVERED PORCH

- OPTIONAL COVERED

PORCH (PATIO STD.)

=====

THICKENED SLAB (TYP.)

-4" CONC.-

SEE STEMWALL FND. DETAIL -

SHEET FOR FND. OPTIONS.

No Pedestrian

-Note: Optional Garage is flush across front

Door

- SEE WALL BRACING —

DETAIL SHEET FOR

FOUNDATION DETAILS

—24" x 24" x 10"— CONC. FTG.

OPTIONAL SECOND CAR GARAGE

----5'-|| 3/4"----|---5'-∅"----|

— SEE WALL BRACING -DETAIL SHEET FOR

FOUNDATION DETAILS

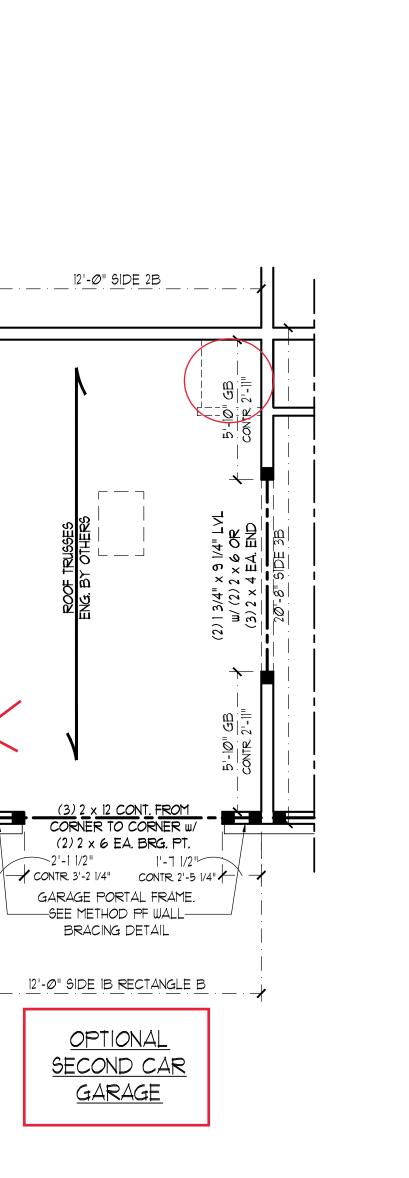
~24" x 24" x 10" CONC. FTG.

FIREPLACE

(2) 1-3/4" CONDUIT

FROM ISLAND TO

WALL BEHIND REF.



12'-0" SIDE 2B

(2) 2 x 6 EA. BRG. PT.

GARAGE PORTAL FRAME.

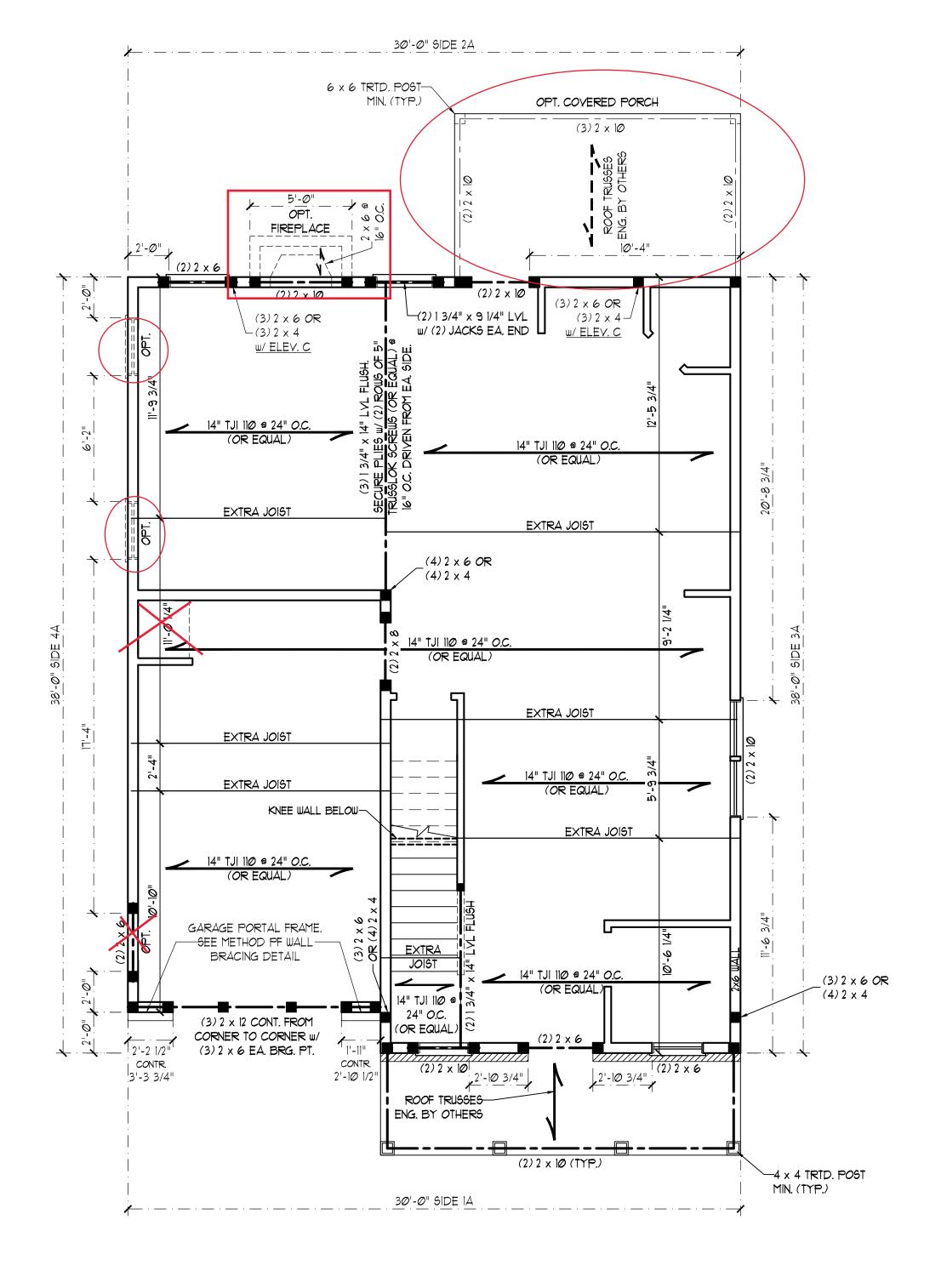
—SEE METHOD PF WALL—

BRACING DETAIL

OPTIONAL

SECOND CAR

<u>GARAGE</u>



*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16" | O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 X 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).



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FAX: (919) 789-9921

N.C. CERTIFICATE NO.: C-1733

LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS.

LINTEL SCHEDULE FOR

BRICK/NATURAL STONE SUPPORT

SIZE OF LINTEL

L 3 1/2 x 3 1/2 x 1/4

L 5 x 3 1/2 x 5/16 LLV

L 6 x 4 x 5/16 LLV

- LENGTH = CLEAR OPENING
- SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO
- FOR ALL BRICK SUPPORT @ ROOF LINES,
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED

BRACED WALL DESIGN

RECTANGLE A	RECTANGL
<u> A</u>	SIDE IB
OD: CS-WSP/PF	METHOD: CS-WSP/PF

BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC

STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" OSB

ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6"

*GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL

1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS.

FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C.

ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND

CS-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD

O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

TOTAL REQUIRED LENGTH: 9.88' TOTAL REQUIRED LENGTH: 2.38' SIDE 2A METHOD: CS-WSP TOTAL REQUIRED LENGTH: 9.88' TOTAL REQUIRED LENGTH: 2.38' TOTAL PROVIDED LENGTH: 17.33' TOTAL PROVIDED LENGTH: 12.0' METHOD: CS-WSP

BRACED WALL DESIGN NOTES:

2018 EDITION.

BOTTOM PLATES.

WALL INFORMATION.

TOTAL REQUIRED LENGTH: 8.07' TOTAL REQUIRED LENGTH: 10.07' TOTAL PROVIDED LENGTH: 32.29' TOTAL PROVIDED LENGTH: 23.6' <u>SIDE 4A</u> METHOD: CS-WSP

3/12/2020

LE B

TOTAL PROVIDED LENGTH: 11.98' TOTAL PROVIDED LENGTH: 5.63' <u> SIDE 2B</u> METHOD: CS-WSP SIDE 3B & 4A COMBINED METHOD: CS-WSP/GB

<u> SIDE 4B</u> METHOD: CS-WSP TOTAL REQUIRED LENGTH: 8.07' TOTAL REQUIRED LENGTH: 2' TOTAL PROVIDED LENGTH: 29.5' TOTAL PROVIDED LENGTH: 17.83'

BRICK SUPPORT NOTES:

8 AND GREATER

LENGTH (FT.)

UP TO 4 FT.

- (LLY) = LONG LEG VERTICAL
- EMBED ALL ANGLE IRONS MIN. 4" EACH
- HEADER W/ 1/2" LAG SCREWS @ 12" O.C. STAGGERED.
- FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 12d NAILS PER PLY. FASTEN A 6" \times 4" \times 5/16" STEEL ANGLE TO (2) 2 \times 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION RT03.8.2.1 OF THE 2018 NCRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
- PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE
- ALL LOAD BEARING HEADERS TO BE (2) 2×6 (UNO).
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/(1) JACK STUD AND(1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.) 6. ALL 4 x 4 POSTS SHALL BE
- ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.) FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN.
- THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHE (PER TABLE R602.3(5)	
(FEET)	16	24
UP TO 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

TABLE R602.7.5

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES (PER TABLE R602.3(5)		
(1661)	16	24	
UP TO 3'	1	1	
4'	2	1	
8'	3	2	
12'	5	3	
16'	6	4	

SIDENT

DATE: MARCH 9, 2020 REV.:

SCALE: 1/4"=1'-0" DRAWN BY: WG ENGINEERED BY: WFB

SECOND FLOOR FRAMING PLAN

REVIEWED BY: MGS

*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 6 @ 16"
O.C. (UNO). 2 x 4 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 6 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

BRACED WALL DESIGN NOTES:

- 1. BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC
- 2. CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" OSB ON ALL EXTERIOR WALLS ATTACHED W/8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 3. *GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I 1/4" SCREWS OR I 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
 FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED
 IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
 SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
 WALL INFORMATION.

NOTE

- 1. PER SECTION R602.10.3.2 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- 2. SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- 3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.1.5 FOR ADDITIONAL KING STUD
- REQUIREMENTS.

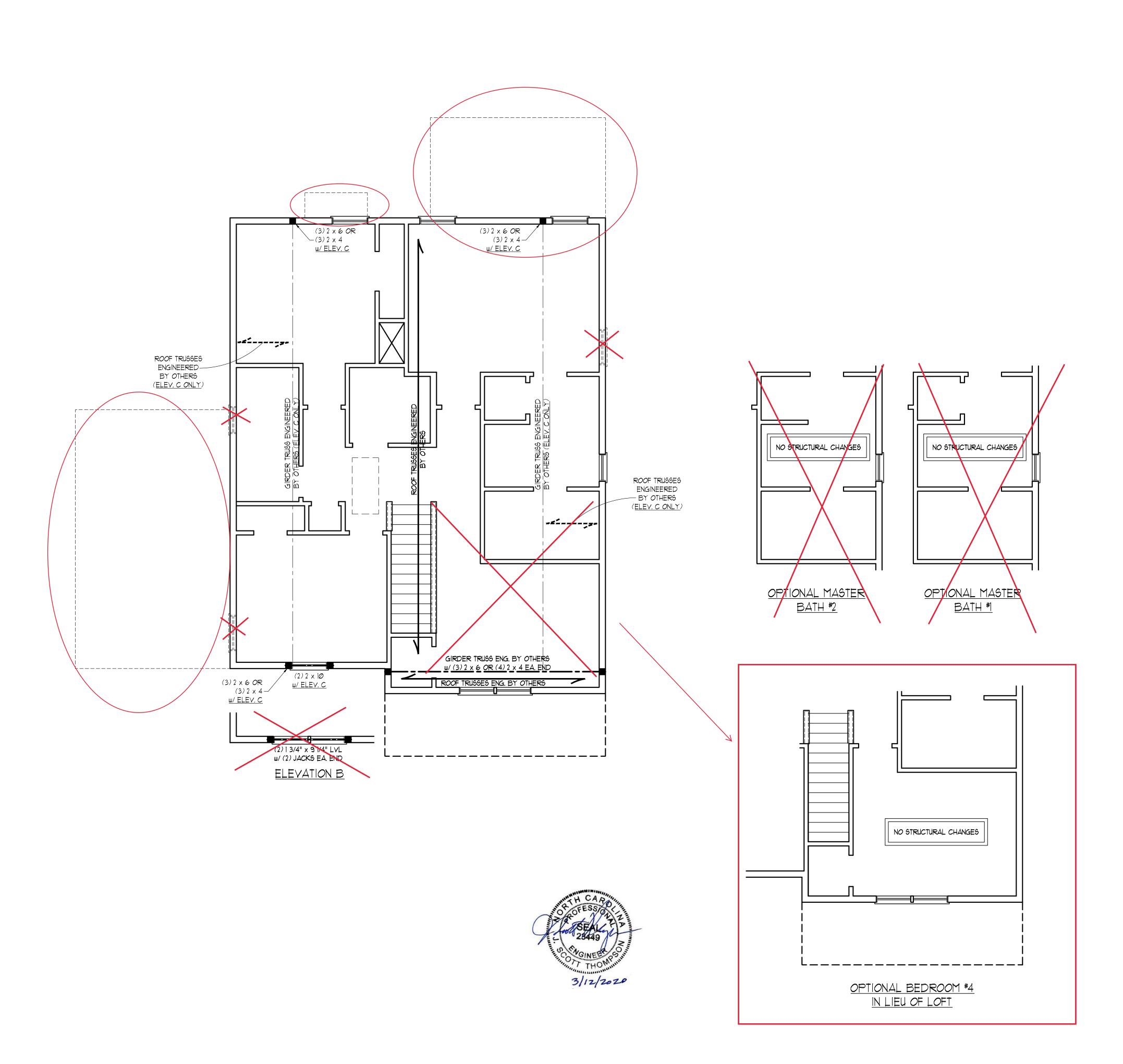
 4. SQUARES DENOTE POINT LOADS
 WHICH REQUIRE SOLID BLOCKING TO
 GIRDER OR FOUNDATION. SQUARES
 TO BE (2) STUDS (UNO.)
- 5. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

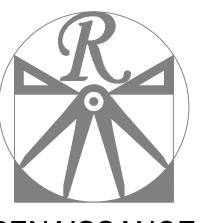
TABLE R602.7.5

MINIMUM NUMBER OF FULL HEIGHT STUDS

AT EACH END OF HEADERS IN EXTERIOR WALLS

AT EACH END OF HEADERS IN EXTERIOR WA			
HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHI (PER TABLE R602.3(5)		
(1 1)	16	24	
UP TO 3'	1	1	
4'	2	1	
8'	3	2	
12'	5	3	
16'	6	4	





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N.C. CERTIFICATE NO.: C-1733



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A&G RESIDENTIAL HAMPTON DRIVE LEFT

DATE: MARCH 9, 2020

KEV.:

SCALE: 1/4"=1'-0"

DRAWN BY: WG

ENGINEERED BY: WFB

REVIEWED BY: MGS

ATTIC FLOOR FRAMING PLAN

S-3

[-----]

303 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 2.0 SQ. FT. OF NET FREE VENTILATING AREA (MIN.).

<u>|------</u>

ATTIC VENT CALCULATION: 128 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 0.9 SQ. FT. OF NET FREE VENTILATING AREA (MIN.). COVERED PORCH <u>L------</u> OPTIONAL COVERED PORCH (PATIO STD.) __------OPTIONAL FIREPLACE ROOF TRUSSES ENGINEERED BY OTHERS OPTIONAL THIRD -CAR GARAGE ROOF TRUSSES
ENGINEERED
BY OTHERS F1 _ _ _ _ _ ENG. BY PTHERS _ _ _ _ _ _ _ _ ROOF TRUESES-ENG. BY OTHERS

[-----]

ATTIC VENT CALCULATION:

1348 SQ. FT. OF ATTIC DIVIDED BY 150 REQUIRES 9.0 SQ. FT. OF NET FREE VENTILATING AREA (MIN.).

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE #2

FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS. HIP SPLICES ARE TO BE SPACED

MEMBERS WITH THREE ROWS OF

12d NAILS @ 16" O.C. (TYP.)

. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES,

2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE

SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d

REFER TO SECTION R802.11 OF THE

2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH

CIRCLES DENOTE (3) 2 x 4 POSTS

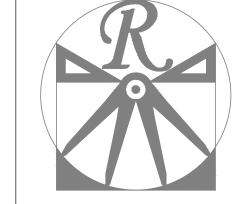
SPF (UNO).

FOR ROOF SUPPORT.

A MIN. OF 8'-0". FASTEN

VALLEY TRUSSES.

TOE NAILS.



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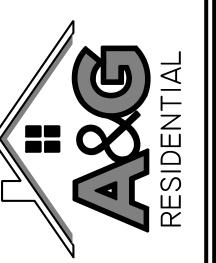
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A&G RESIDENTIAL HAMPTON DRIVE LEFT

DATE: MARCH 9, 2020

SCALE: 1/4"=1'-0"

DRAWN BY: WG
ENGINEERED BY: WFB

REVIEWED BY: MGS

ROOF PLAN ELEVATION - C

ELEVATION S-4

ELEVATION C

SCALE: NTS

ENGINEERED BY: JST

DETAILS

STEM WALI FOUNDATION DE

DATE: NOVEMBER 1, 2018

DRAWN BY: JST

FOUNDATION

MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" BRICK AND (FEET) 8" CMU 12" CMU 2 AND UNGROUTED UNGROUTED UNGROUTED GROUT SOLID BELOW UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID GROUT SOLID REBAR @ 48" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 36" O.C. REBAR @ 36" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/#4 NOT APPLICABLE REBAR @ 24" O.C. REBAR @ 24" O.C. REBAR @ 64" O.C. 7 AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER

STRUCTURAL NOTES:

- 1) WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2) TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3) CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4) BACKFILL OF CLEAN #57 / #67 WASHED STONE IS ALLOWABLE.
- 5) BACKFILL OF WELL DRAINED OR SAND GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
- 6) PREP SLAB PER <u>R506.2.1</u> AND <u>R506.2.2</u> BASE AND <u>EXCEPTION</u> OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
- 1) MINIMUM 24" LAP SPLICE LENGTH.
- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S) 5HEATHING 2 x 4 TRTD. BOTTOM PLATE(S) SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS 4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC
6 MIL. VAPOR BARRIER 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE TOP TWO COURSES OF STEM WALL AND ALL CELLS W/ REINFORCEMENT TO BE FILLED SOLID. FOR OPTIONAL BRICK WATERTABLE, INCREASE TO 20" WIDE BY 8" DEEP CONC. FTG.
CONT. CONC. FTG. STEM WALL FDN. W/ OPTIONAL

BRICK WATERTABLE DETAIL

2 x 4 STUD FRAMING (UNO) W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(6)-

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS

W/ FIBER REINFORCING

4" CONCRETE SLAB-

6 MIL. VAPOR-BARRIER

UNDISTURBED EARTH,

COMPACTED FILL

OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

FILLED SOLID.

OR WELDED WIRE FABRIC

4" WASHED STONE

BRICK TIES @

1'-4" VERTICALLY AND

LADDER WIRE

EVERY OTHER

-12" CMU BLOCK

(4)

COURSE

WALL REINFORCEMENT,

-20" WIDE BY 8" DEEP

CONT. CONC. FTG.

STEM WALL FDN. W/ BRICK AND CURB (2)

SEE CHART FOR SPACING

2'-6" HORIZONTALLY

-4" BRICK VENEER

WEEP HOLES

Γ				
	ANCHOR SPACING AND EMBEDMENT			NOTE:
	WIND ZONE	120 MPH	130 MPH	THREADED ROD WITH
	SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	SIMPSON TITEN HD, O ANCHORS SPACED A TO PROVIDE EQUIVA ANCHORAGE TO 1/2" I ANCHOR BOLTS MAY
	EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE	LIEU OF 1/2" ANCHOR

-SIDING AS SPEC.

-LADDER WIRE IN TOP TWO

-OPTIONAL BRICK VENEER

COURSES (W/ VENEER ONLY)

-FINISHED GRADE

EVERY OTHER

-8" CMU BLOCK

COURSE

-WALL REINFORCEMENT, SEE

CHART FOR SPACING

-16" WIDE BY 8" DEEP

BRICK TIES @

-4" BRICK VENEER

-FLASHING

WEEP HOLES

1'-4" VERTICALLY AND

LADDER WIRE

EVERYMOTHER

-12" CMU BLOCK

COURSE

-WALL REINFORCEMENT, SEE

CHART FOR SPACING

-20" WIDE BY 8" DEEP CONT. CONC. FTG.

2'-6" HORIZONTALLY

CONT. CONC. FTG.

STEM WALL FON. DETAIL

-SHEATHING

2 x 4 STUD FRAMING (UNO)— W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(S)—

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

THICKENED SLAB

4" CONCRETE SLAB-

6 MIL. VAPOR-

UNDISTURBED EARTH,

COMPACTED FILL

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

2 x 4 STUD FRAMING (UNO)

W/ TRTD. BOTTOM PLATE(S)

2 x 4 TRTD. BOTTOM PLATE(S) -

SECURED BY 1/2" DIA. BOLTS.

EMBEDMENT REQUIREMENTS

SEE CHART FOR SPACING AND

4" CONCRETE SLAB

6 MIL. VAPOR-

UNDISTURBED EARTH,

COMPACTED FILL OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS w/ REINFORCEMENT TO BE

FILLED SOLID.

STEM WALL FDN. W/ BRICK DETAIL

4" WASHED STONE

BARRIER

W/ FIBER REINFORCING
OR WELDED WIRE FABRIC

FILLED SOLID.

OR WASHED STONE

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

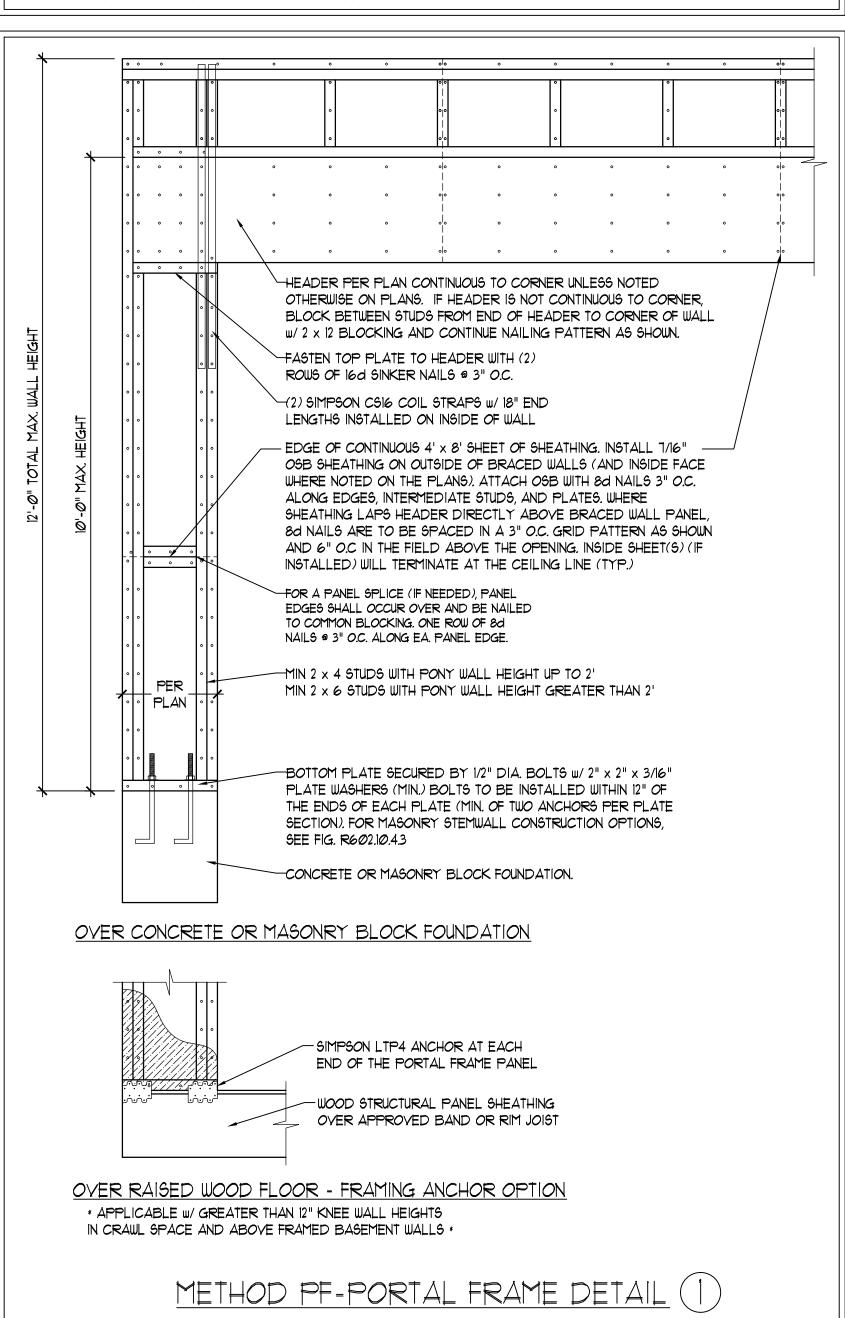
EMBEDMENT REQUIREMENTS

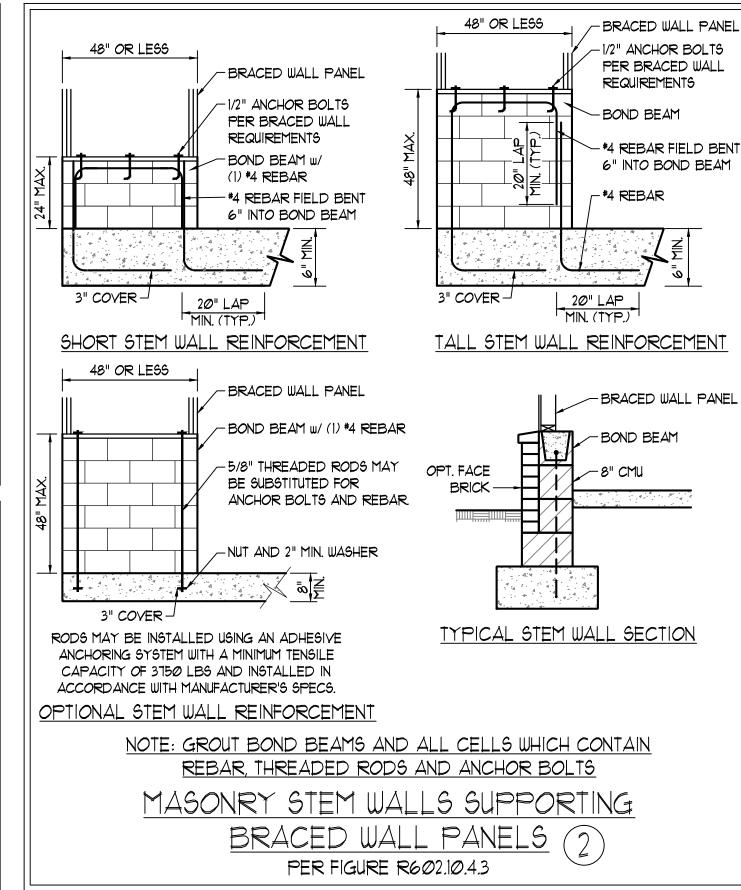
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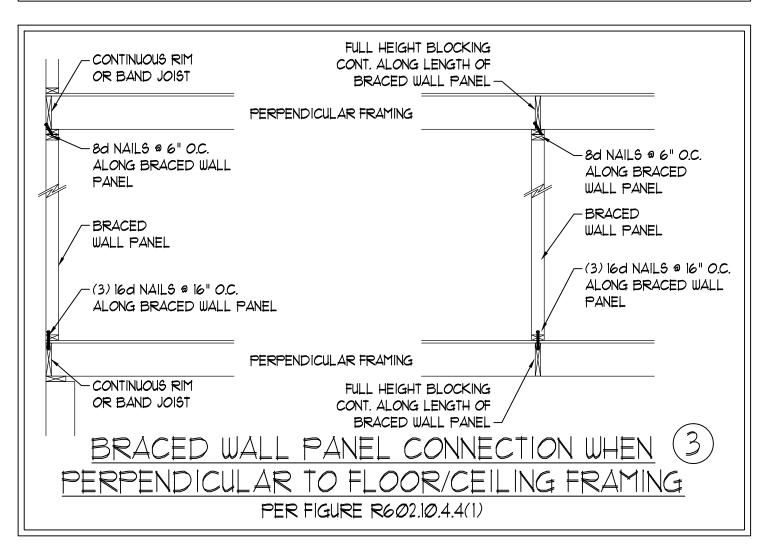
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT
- AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
- . ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE
- FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1 CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/6d COMMON NAILS OR 8d (2 1/2" LONG x Ø.113"

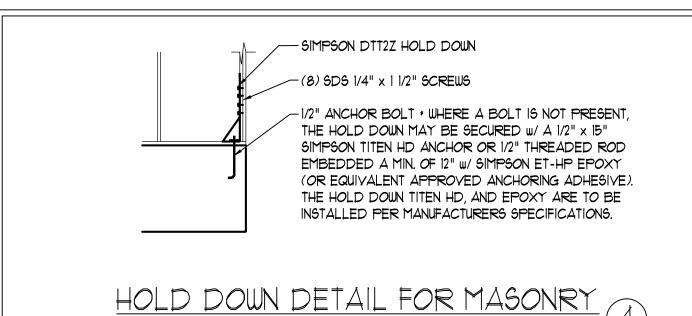
DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UN.O.

- GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.), VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R1/02.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602. 10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.









FOUNDATION OR MONOLITHIC SLAB

* APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

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AND INSTALLED IN ACCORDANCE

CONTINUOUS WOOD

STRUCTURAL PANEL

BRACED WALL LINE -

WITH CHAPTER 1 (TYP.)-

16d NAIL (3 1/2" x Ø.131") (2 ROWS @ 24" O.C. -

SHEATHING PER PLAN-

-CONTINUOUS RIM OR BAND JOIST

8d NAILS @ 6" O.C. ALONG

BRACED WALL PANEL

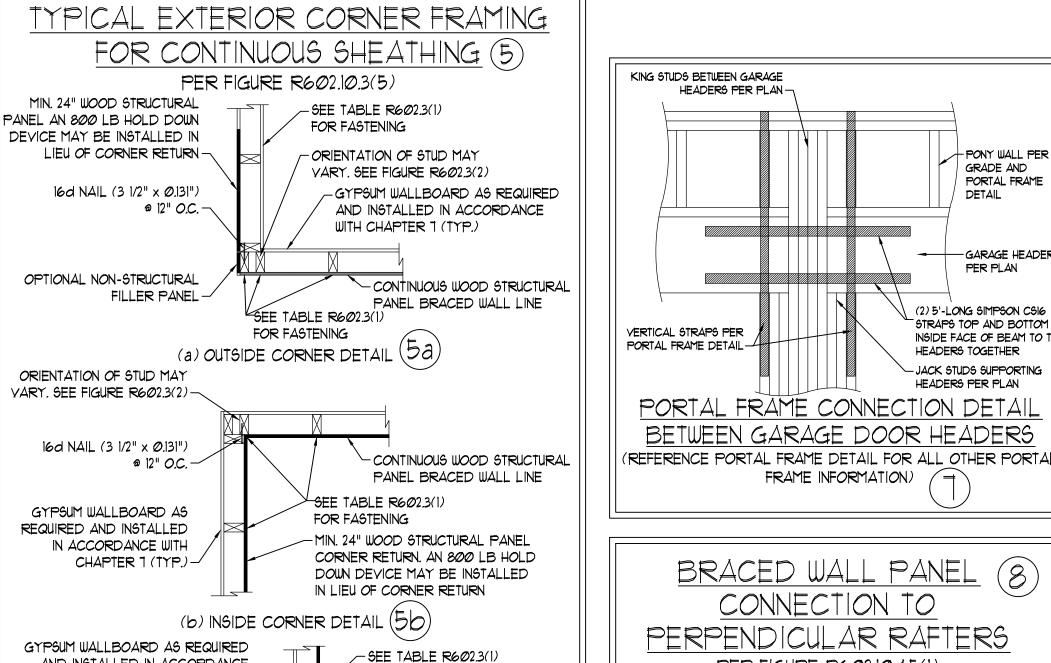
BRACED WALL PANEL

-(3) 16d NAILS @ 16" O.C.

ALONG BRACED WALL PANEL

CONTINUOUS RIM W/ FINGER

JOISTS OR DBL. BAND JOIST



FOR FASTENING

-MIN. 24" WOOD STRUCTURAL

PANEL CORNER RETURN. AN

800 LB HOLD DOWN DEVICE

-FULL HEIGHT BLOCKING @

16" O.C. ALONG LENGTH OF

TOE NAIL (3) 8d NAILS AT

EA. BLOCKING MEMBER

-BRACED WALL PANEL

/-(3) 16d NAILS @ 16" O.C.

(2) 16d NAILS EA. SIDE

FULL HEIGHT BLOCKING @

16" O.C. ALONG LENGTH OF

BRACED WALL PANEL

AT EA. BLOCKING

MEMBER

BRACED WALL PANEL

MAY BE INSTALLED IN LIEU

OF CORNER RETURN

FASTENERS ON EACH STUD (50)

BRACED WALL PANEL CONNECTION WHEN (6)

- ADDITIONAL FRAMING

BRACED WALL PANEL

MEMBER DIRECTLY ABOVE

-8d NAILS @ 6" O.C. ALONG

BRACED WALL PANEL

BRACED WALL PANEL

-(3) 16d NAILS @ 16" O.C.

ADDITIONAL FRAMING

BRACED WALL PANEL

MEMBER DIRECTLY BELOW

ALONG BRACED WALL PANEL

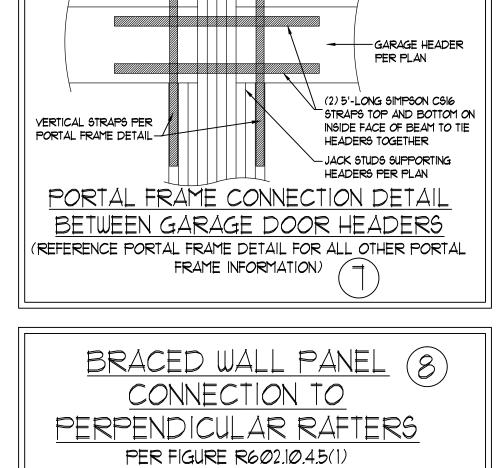
PARALLEL TO FLOOR/CEILING FRAMING

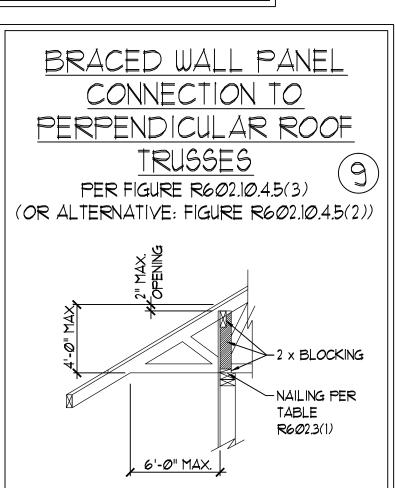
PER FIG. R602.10.4.4(2)

AT EACH PANEL EDGE

(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)





SOLID BLOCKING BETWEEN

ATTACHED TO TOP PLATES WITH

8d NAILS 6" O.C. ALONG LENGTH

RAFTERS OR TRUSSES

OF BRACED WALL PANEL

ES

DATE: OCTOBER 30, 2018

SCALE: 1/4" = 1'-0" DRAWN BY: JST

ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS AND PF DETAIL

3/12/2020

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	100	L/360
DECK9	40	10	L/360
EXTERIOR BALCONIES	4Ø	10	L/360
FIRE ESCAPES	4Ø	10	L/360
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø
PASSENGER VEHICLE GARAGE	5Ø	10	L/360
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360
SLEEPING ROOMS	3 <i>Ø</i>	10	L/360
STAIRS	4Ø	10	L/360
WIND LOAD	(BASED ON TABLE R3Ø1.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480 - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD

- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION, CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL. SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL COMFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PS1, Fv = 375 PS1, E = 1600000 PS1) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv =175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb =2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36 ASTM A36 PLATES AND BARS: HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B STEEL PIPE: ASTM A53, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS B. CONCRETE (2) 1/2" DIA. x 4" WEDGE ANCHORS C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W/ (2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION, SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3ØT) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- II. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (UN.O.). FOR ALL HEADERS 8'-Ø" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG. SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 YALLEYS (UNO).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HE OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.





DATE: OCTOBER 29, 2018

SCALE: 1/4" = 1'-0"

DRAWN BY: JES

ENGINEERED BY: JST

STRUCTURAL NOTES