- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- 3. ALL ANGLED WALLSHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- 4. STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- 6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

## **SQUARE FOOTAGE**

HEATED SQUARE FOOTAGE		<b>UNHEATED SQUARE FOOTAG</b>		
FIRST FLOOR=	1915	GARAGE=	637	
SECOND FLOOR=	N/A	FRONT PORCH=	200	
THIRD FLOOR=	N/A	COVERED PORCH=	251	
BASEMENT=	N/A	DECK=	192	
		STORAGE=	N/A	

TOTAL HEATED= 1915 TOTAL UNHEATED= 1280

#### CRAWL SPACE VENTILATION CALCULATIONS

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

1915 SQ. FT. OF CRAWL SPACE/1500

1.28 SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: 3 VENTS AT 0.45 SQ. FT. NET FREE

VENTILATION EACH= 1.35 SQ. FT. OF VENTILATION

\*\*FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.

## **ATTIC VENTILATION CALCULATIONS**

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTIALTION PROVIDED BE EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

3002 SQ. FT. OF ATTIC/300= 10.01

EACH OF INLET AND OUTLET REQUIRED.

#### \*WALL AND ROOF CLADDING DESIGN VALUES

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

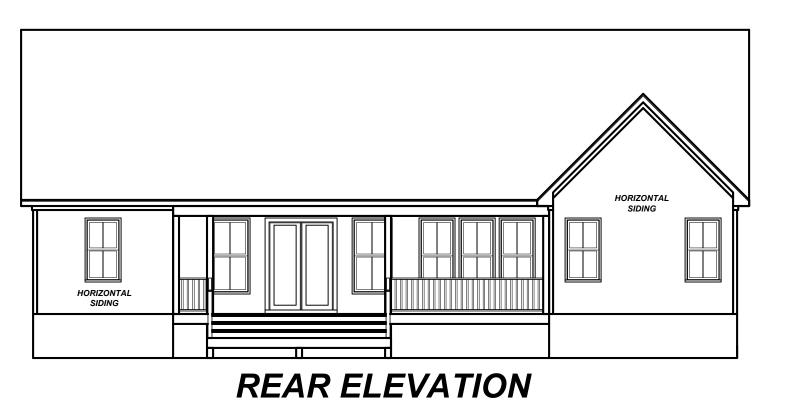
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

\*\* MEAN ROOF HEIGHT 30' OR LESS



FRONT ELEVATION

1/4" = 1'-0"



1/8" = 1'-0"





Project #:
23-033

Date:
2-24-23

Drawn/Design By:
KBB

Scale:
REFER TO ELEV.

REVISIONS

Date: Remarks

Remarks

aleigh, NC 27603 Office: (919) 302-0693



<u>Doyle</u> Residence

Lee Doyle 1446 Leroy Autry Rd. Autryville, NC 28318

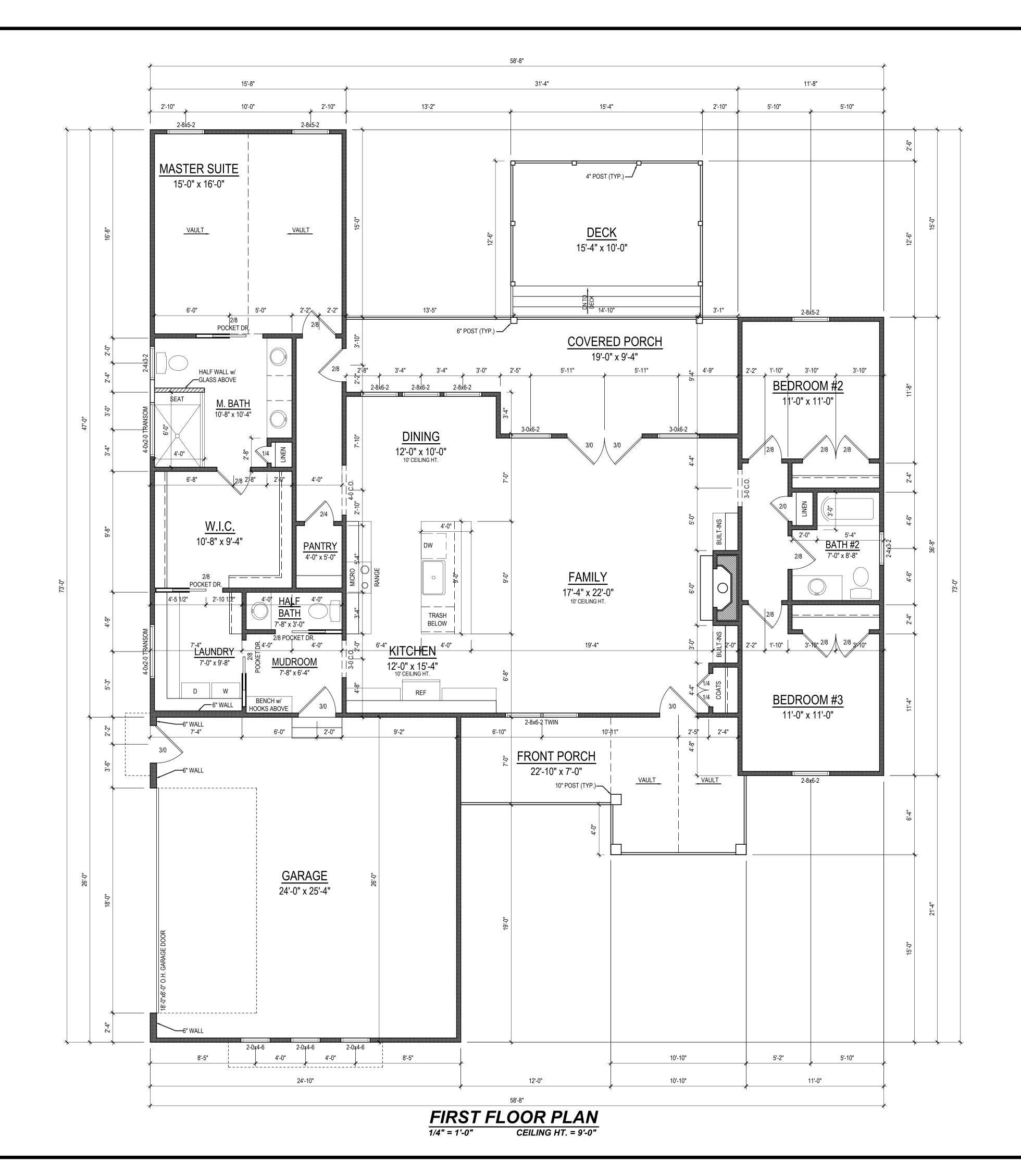
ELEVATIONS

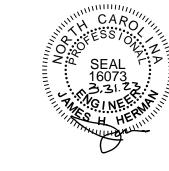
Sheet Number

Lee Doyle 1446 Leroy Autry Rd. Autryville, NC 28318

FIRST FLOOR

Sheet Numb





FOUNDATION STRUCTURAL NOTES

(3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.

CONCRETE BLOCK PIER SIZE SHALL BE: <u>HOLLOW</u> UP TO 32" UP TO 48" 24×24 UP TO 96"

WALL FOOTING AS FOLLOWS

MIDTH: 16" - UP TO 2 STORY 20" - 3 STORY 16" - I STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.I.I (I THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

• "TJ" = TRIPLE JOIST

9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

NC (2018 NCRC): Wind: 115-120 mph - CRAWL

UP TO 5'-0" UP TO 9'-0" UP TO 64" UP TO 12'-0" WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

DEPTH: 8" - UP TO 2 STORY 10" - 3 STORY 20" - 2 STORY 24" - 3 STORY

(4) 2xIO SPF #2 OR SYP #2 GIRDER

(2) 1.75x9.25 LVL OR LSL GIRDER

(3) 1.75x9.25 LVL OR LSL GIRDER

7. "■" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

ABBREVIATIONS:

"SJ" = SINGLE JOIST • "DJ" = DOUBLE JOIST

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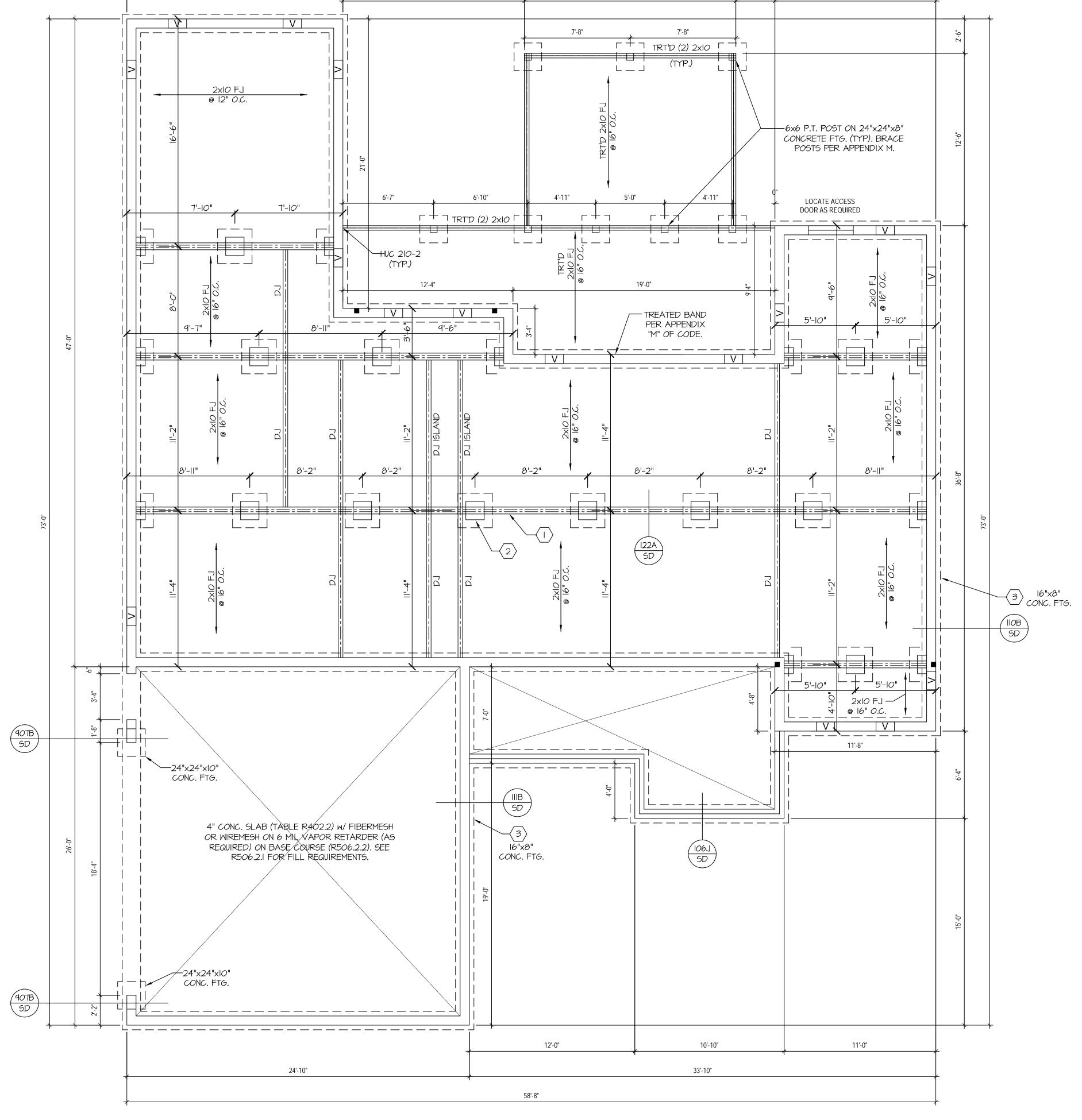
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PROJECT #

23-1183

Doyle Residence



58'-8"

13'-2"

43'-0"

2'-10"

11'-8"

15'-4"

15'-8"

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

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

PROJECT #

23-1183

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nson Ur Phone:

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outhern

**Sou** 3716



## FRAMING NOTES

BALLOON FRAME GABLE END WALL WITH 2x4 STUDS AT 12" OC. INSTALL SCISSOR TRUSS ON GABLE END.

VAULT

906 SD

(2) 2x10

ROOF

TRUSSES

VAULT

ROOF TRUSSES

(2) 2x10

-HUC 210-2

(TYP.)

(2) 1.75x9.25 LVL

(3) 2x10 (TYP.)

(2) 2xIO

/--- HUC 210-2 (TYP.)

2 (2) 2xlO

- I. BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- 2. EXTERIOR WALL SHEATHING: WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANEL SHEATHING (WSP) (EXPOSURE B: 7/16". EXPOSURE C: 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BE SPLICED ALONG CONTINUOUS BAND OR THE WSP SHEATHING MAY BE SPLICED ACROSS STUDS (CONTINUOUS ACROSS FLOOR SYSTEM) WITH BLOCKING AT PANEL EDGES. (MINIMUM 12" BEYOND FLOOR BREAK) OR OTHER APPROVED METHOD.
- \*\*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS20 OR CSHP20 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (7) 8d NAILS.
- 5. INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH I/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
- 6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/6" WSP SHEATHING WITH 8d NAILS AT A 6"/12" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH I/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 7" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.

## PORCH POST NOTES

\_\_\_\_\_

GIRDER TRUSS

-MIN. 4x4 POST. SEE

PORCH NOTES.

TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC): Wind: 115-120 mph

ENGINEERS.

SCHEMATICS.

TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)

STRUCTURAL PLANS. ANY NEED TO CHANGE

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO

REQUIREMENTS AS SPECIFIED ON THE TRUSS

UPLIFT OR BEARING SHALL MEET THE

ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

2. TRUSS SCHEMATICS (PROFILES) SHALL BE

SHALL BE DESIGNED IN ACCORDANCE WITH SEALED

TRUSSES SHALL BE COORDINATED WITH SOUTHERN

PREPARED AND SEALED BY TRUSS MANUFACTURER.

TRUSSES

VAULT

ROOF TRUSSES

(2) 2x10 (TYP.)

HEADER/BEAM & COLUMN NOTES

I. ALL EXTERIOR AND LOAD BEARING HEADERS

2. THE NUMBER SHOWN AT BEAM AND HEADER

HEADERS IN EXTERIOR WALLS SHALL BE

UP TO 3' SPAN: (1) KING STUD

SHALL BE MIN. (2)2x10 (4" WALL) OR (3)2x10 (6"

SUPPORTS INDICATES THE NUMBER OF SUPPORT

STUDS REQUIRED IN STUD POCKET OR COLUMN.

THE NUMBER OF KING STUDS AT EACH END OF

ACCORDING TO ITEM "d" IN TABLE R602.3(5)

OR AS BELOW PER NCDOI COMMENTARY "KING

STUDS AT WALL OPENINGS" REVISED 1-9-2020:

OVER 3' UP TO 6' SPAN: (2) KING STUDS

OVER 6' UP TO 9' SPAN: (3) KING STUDS

OVER 9' UP TO 12' SPAN: (4) KING STUDS OVER 12' UP TO 15' SPAN: (5) KING STUDS

WALL) WITH (I) SUPPORT STUD, UNLESS NOTED

VAULT

OTHERWISE.

- 4X4 (6x6) TRT'D POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- 2. POST CAP AT CORNER: (2) SIMPSON LCE4
- 3.2. <u>CMU</u>: %" ANCHOR (EXTEND TO FOOTING -
- HIGH WIND ONLY) 4. POST BASE: WOOD FOUNDATION: (2) SIMPSON CSI6 STRAPS AT POSTS. EXTEND 12" ONTO

EACH POST (UPPER AND LOWER) OR TO GIRDER.

- I. (2) PLY 1.75" LVL BEAMS:
- (3) ROWS OF IOD NAILS @ 12" O.C. OR • (2) ROWS OF SIMPSON SDW22338 (OR UP TO 18"
- 2. *(*3*)* PLY 1.75" LVL BEAMS:
- EACH SIDE OR • (2) ROWS OF SIMPSON SDW22500 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22500 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- GREATER THAN 18".

NC (2018 NCRC): Wind: 115-120 mph

- 3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING BRACED WALLS PER CODE. WSP SHEATHING BETWEEN FLOORS SHALL
- 4. "HD" = HOLDOWN: HOLD-DOWN DEVICE (NOTED AS "HD" ON PLANS) SHALL BE AN 800 POUND CAPACITY ASSEMBLY AS NOTED ON PLANS. SEE DETAILS FOR HD ASSEMBLY. • \*\*GROUND/FIRST FLOOR: USE "HD HOLD-DOWN DETAIL" ON SD SHEET

- POST CAP: SIMPSON AC4-MAX (AC6-MAX) (MITER HEADER AT CORNER). HIGH WIND; ADD (I) SIMPSON H6.
- 3. <u>POST BASE</u>: SIMPSON ABU44 (ABU66). 3.1. <u>MONO</u>: %" ANCHOR (EMBED 7")
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

## LVL CONNECTION LEGEND

- EQUAL) SCREMS @ 16" O.C. FOR BEAMS
- (3) ROWS OF SIMPSON SDW22338 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- (3) ROWS OF IOD NAILS @ 8" O.C. ON
- 3. (4) PLY 1.75" LVL BEAMS:
- (2) ROWS OF SIMPSON SDW22634 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
- (3) ROWS OF SIMPSON SDW22634 (OR EQUAL SCREWS @ 16" O.C. FOR BEAMS

## STRUCTURAL FLOOR PLAN

SCALE: 1/4"=1'-0" REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

**S-2** 

Residence

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Maple | North

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## ROOF FRAMING NOTES:

- 4) 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY
- (5.) FALSE FRAME VALLEY ON 2x10 FLAT PLATE
- (8) EXTEND RIDGE 12" BEYOND INTERSECTION

- "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2X6 STUDS OR 6X6 POST FOR SUPPORT OVER 10'-0" IN

## TRUSS SYSTEM REQUIREMENTS

- I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) STRUCTURAL PLANS. ANY NEED TO CHANGE ENGINEERS.
- 2. TRUSS SCHEMATICS (PROFILES) SHALL BE

## NC (2018 NCRC): Wind: 115-120 mph

1. 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.

- (2) 2xIO OR 1.75xII.875 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER
- (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- (6) 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
- 7. 2xIO RAFTERS @ I6" O.C. W/ 2xI2 RIDGE, UNO.
- "SR" = SINGLE RAFTER"DR" = DOUBLE RAFTER"TR" = TRIPLE RAFTER

- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H-2.5A" OR EQUIVALENT. TIES TO BE INSTALLED ON THE OUTSIDE FACE OF FRAMING.
  INSTALL RAFTER TIES AND COLLAR TIES PER SECTION R802.3.I OF THE 2018 NC RESIDENTIAL CODE.

## NC (2018 NCRC): Wind: 115-120 mph

- SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSSES SHALL BE COORDINATED WITH SOUTHERN
- PREPARED AND SEALED BY TRUSS MANUFACTURER.
- 3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

## INC HOME DESIGN,

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PROJECT #

23-1183

# Doyle Residence 685 Maple Road Angier, North Carolina

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

ROOF STRUCTURAL PLAN

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

\_\_T<u>RUSS</u> SUPPORT \_\_TRUSS SUPPORT \_TRUSS\_ SUPPORT \_ \_ \_ \_ \_ \_ + \_ -RIDGE ROOF TRUSSES 12:12 TRUSS SUPPORT TRUSS/SUPPORT GIRDER TRUSS 12:12 ROOF TRUSSES - - - - - - - - - - - -12:12 TRUSSES ROOF TRUSSES 12:12 12:12

> -AWNING BY BUILDER, TYPICAL.

\_\_\_\_\_\_

12:12

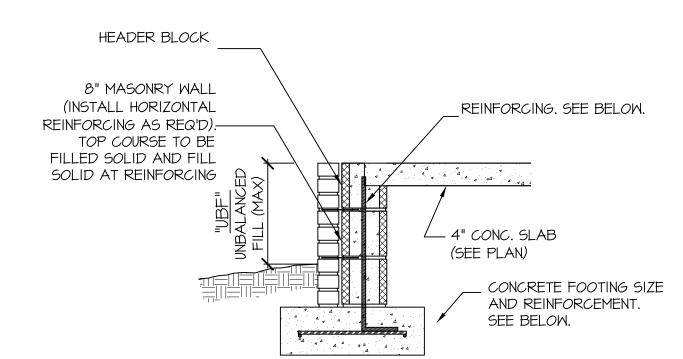
ROOF TRUSSES

**12:12** 

#### STRUCTURAL NOTES

NC (2018 NCRC): Wind: 115-120 mph

- I. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM. ALL REQUIREMENTS FOR PROFESSIONAL CERTIFICATION SHALL BE PROVIDED BY THE APPROPRIATE PROFESSIONAL. SOUTHERN ENGINEERS, P.A. CERTIFIES ONLY THE STRUCTURAL COMPONENTS AS SPECIFICALLY STATED.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2018 NC RESIDENTIAL CODE, 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 FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT ALL MEMBERS SHALL BE FRAMED ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 3. DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
- ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, IO PSF, L/360)
- SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
- ATTIC WITH PERMANENT STAIR: (40 PSF, IO PSF, L/360)
- ATTIC WITHOUT PERMANENT STAIR: (20 PSF, IO PSF, L/360)
- ATTIC WITHOUT STORAGE: (10 PSF, 10 PSF, L/240)
- STAIRS: (40 PSF, 10 PSF, L/360)
- DECKS AND EXTERIOR BALCONIES: (40 PSF, IO PSF, L/360) • PASSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360)
- SNOW: (20 PSF)
- 4. WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- 5. SEE APPENDIX M (DCA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 6. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +-30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF I/D. (I.E. 4" CONCRETE SLABS SHALL HAVE 4" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-10'-0" x +-10'-0" GRID).
- 7. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 8. ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- 9. L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9xI0 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0xI0 PSI. 9.2. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55xI0 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- IO. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- II. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- 12. REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 13. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A325) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 14. BRICK LINTELS (WHEN REQUIRED) SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0". SEE PLANS FOR SPANS OVER 9'-0". SEE ALSO SECTION R703.8.3 LINTELS.

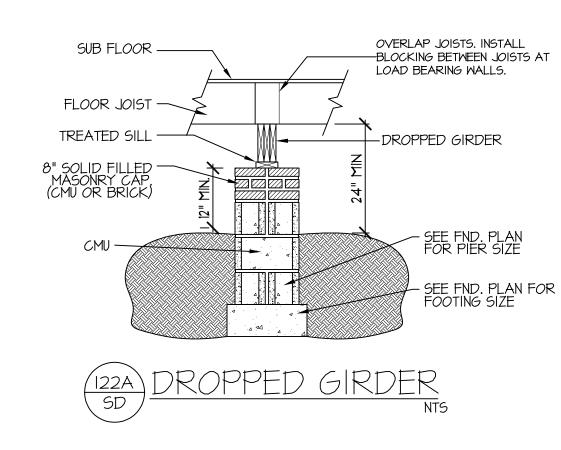


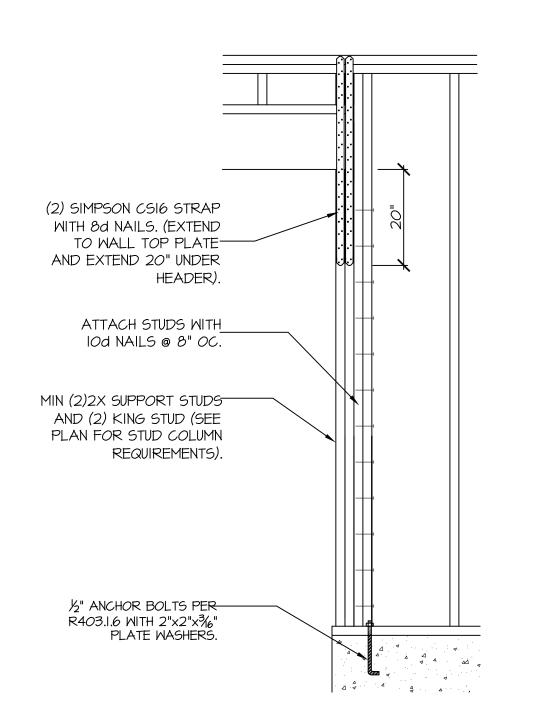
8" MASONRY (UN-REINFORCED) ON 16" WIDE BY 8" DEEP (MIN) CONC. FTG.

REINFORCE WALL W/ #5 BAR @ 48" O.C. W/ 7.5" BEND INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48" O.C.

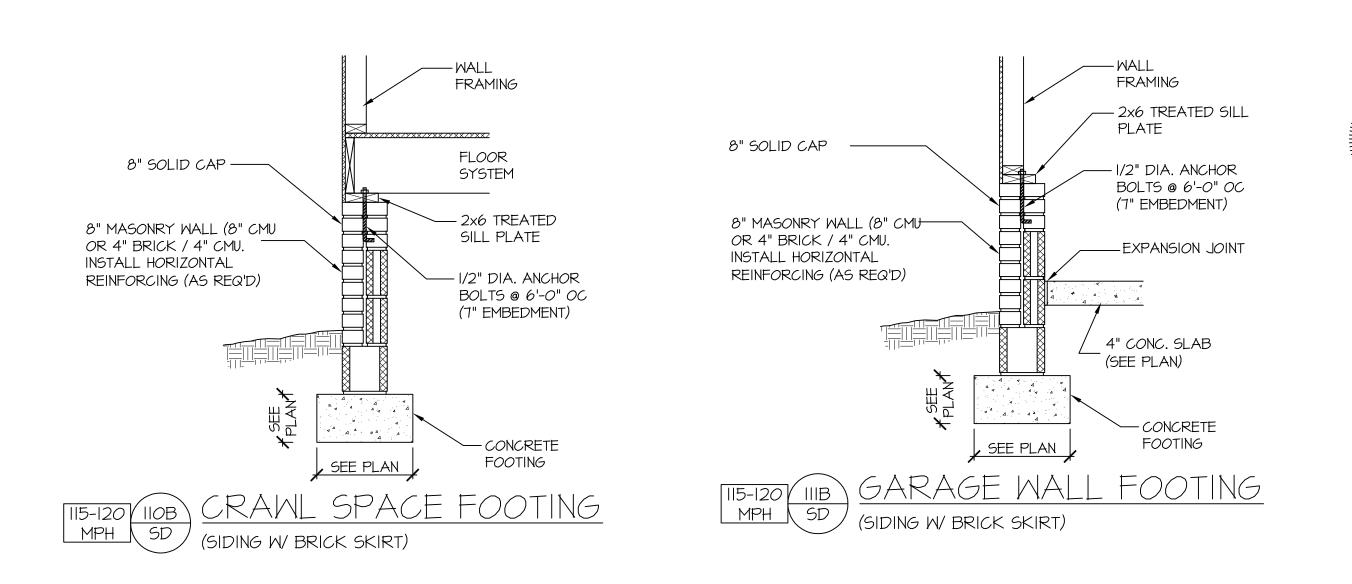
REINFORCE WALL W/ #5 BAR @ 24" O.C. W/ 7.5" BEND "UBF" = 24" UP TO 48" ---INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 24" O.C.

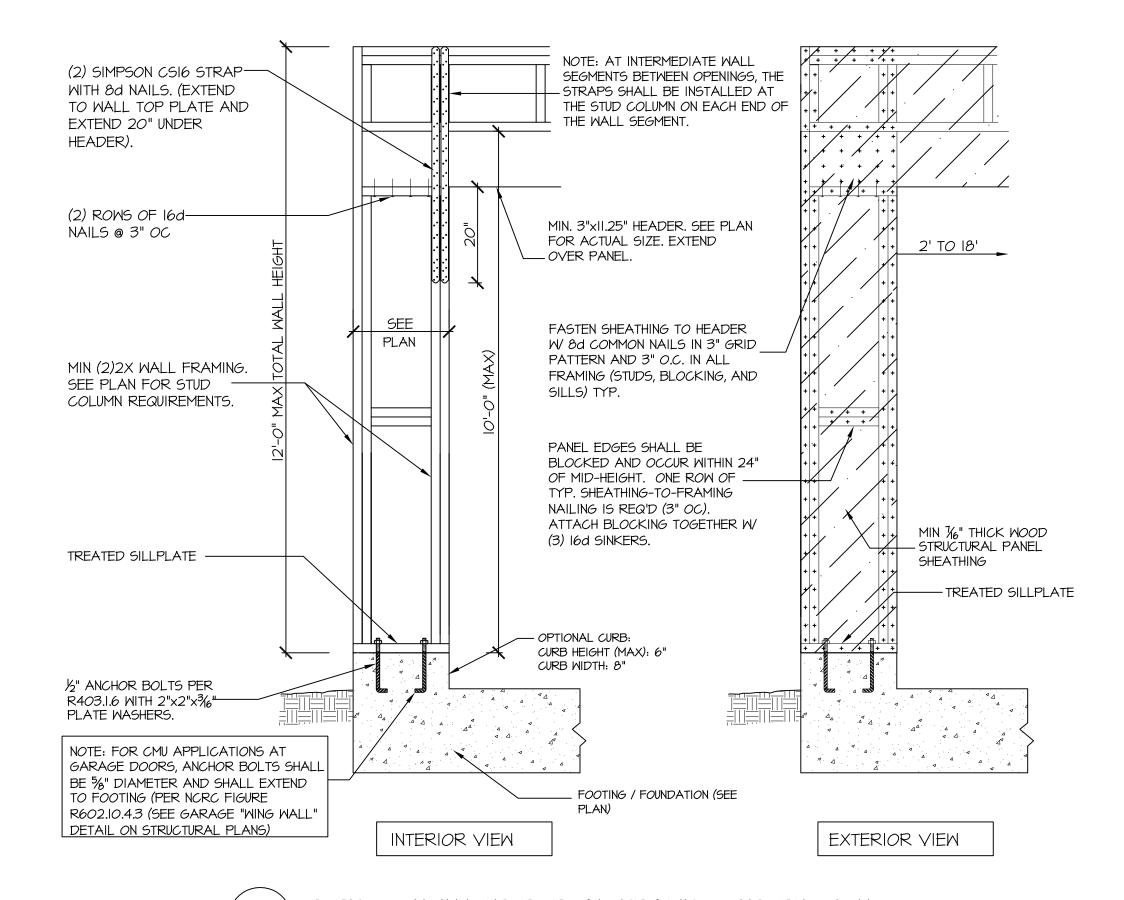


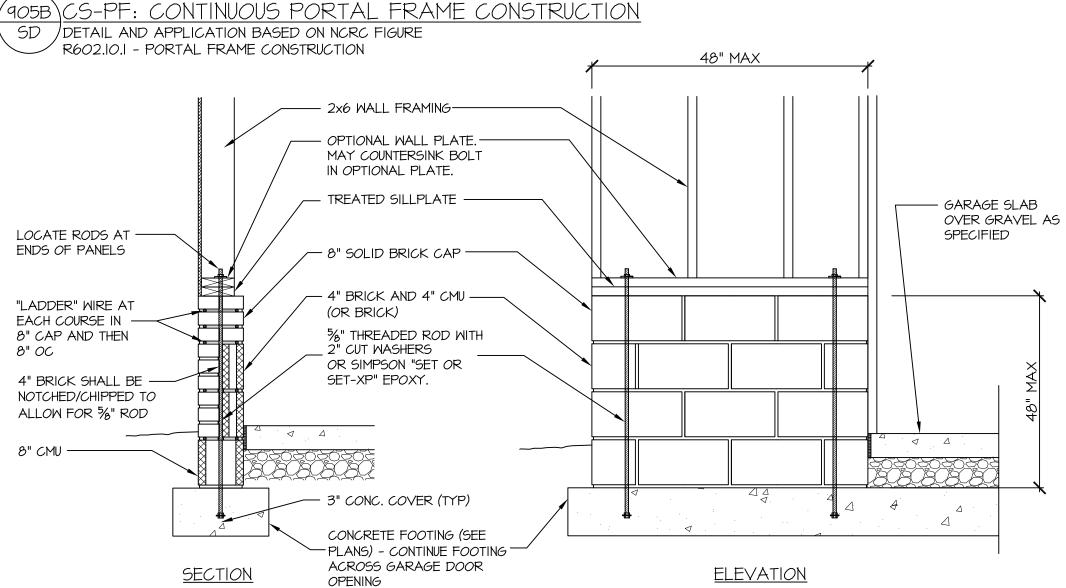




CS-PF: END CONDITION DETAIL (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NORC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION







907B GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3

PROJECT # 23-1183

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South 3716 Ben

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