PROJECT #

22-1659



- FLOOR FRAMING NOTES:
- I. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS (IE. 16" OC FOR CERAMIC TILE)
- 2. NON-BEARING PARTITIONS SHALL BE ADEQUATELY ATTACHED TO THE FLOOR. IT IS RECOMMENDED TO INSTALL AN ADDITIONAL JOIST OR PERPENDICULAR BLOCKING AT NON-BEARING PARTITION WALLS IN ORDER TO ATTACH THE SOLE PLATE.
- 3. IT IS RECOMMENDED TO INSTALL ADDITIONAL JOISTS UNDER KITCHEN ISLANDS FOR IMPROVED PERFORMANCE (DOUBLE EACH JOIST). IN ADDITION, IT IS RECOMMENDED TO INSTALL BLOCKING AS REQUIRED FOR BASE UNIT CONNECTION.
  - FOUNDATION STRUCTURAL NOTES NC (2018 NCRC): Wind: 115-120 mph - CRAWL
  - (3)2xIO SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.
  - (2) CONCRETE BLOCK PIER SIZE SHALL BE: <u>SIZE</u> 8x16 <u>SOLID</u> UP TO 5'-0" UP TO 32" 12x16 UP TO 48" UP TO 9'-0" UP TO 64" UP TO 12'-0" 16x16 24x24 UP TO 96"
  - WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.
  - (3) WALL FOOTING AS FOLLOWS DEPTH: 8" - UP TO 2 STORY 10" - 3 STORY
  - 16" UP TO 2 STORY 20" - 3 STORY 16" - I STORY 20" - 2 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.

24" - 3 ST*O*RY

- (4) 2xIO SPF #2 OR SYP #2 GIRDER
- (5) (2) 1.75×9.25 LVL OR LSL GIRDER
- (6) (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.
- 8. ABBREVIATIONS: "SJ" = SINGLE JOIST
- "DJ" = DOUBLE JOIST "TJ" = TRIPLE JOIST
- 9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF SOUTHERN ENGINEERS, P.A. THIS PLAN IS FOR ONE TIME USE FOR THE CLIENT AND LOCATION NOTED. SOUTHERN ENGINEERS, P.A. ASSUMES NO LIABILITY FOR THIS PLAN IF IT IS REPRODUCED AND/OR USED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM SOUTHERN ENGINEERS, P.A. STRUCTURAL PLANS SHALL BE REVIEWED BY DESIGNER, BUILDER, AND/OR OWNER FOR CONFORMANCE WITH THE ARCHITECTURAL FOR CONFORMANCE WITH THE ARCHITECTURAL DESIGN CONCEPT PROVIDED. ALL DIMENSIONS SHALL BE VERIFIED BY DESIGNER, BUILDER, AND/OR OWNER PRIOR TO CONSTRUCTION.

# FOUNDATION STRUCTURAL PLAN

SCALE: 3/6"=1'-0" REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

Yellowbrick Road Pittsboro, North Carolina alton

Residence

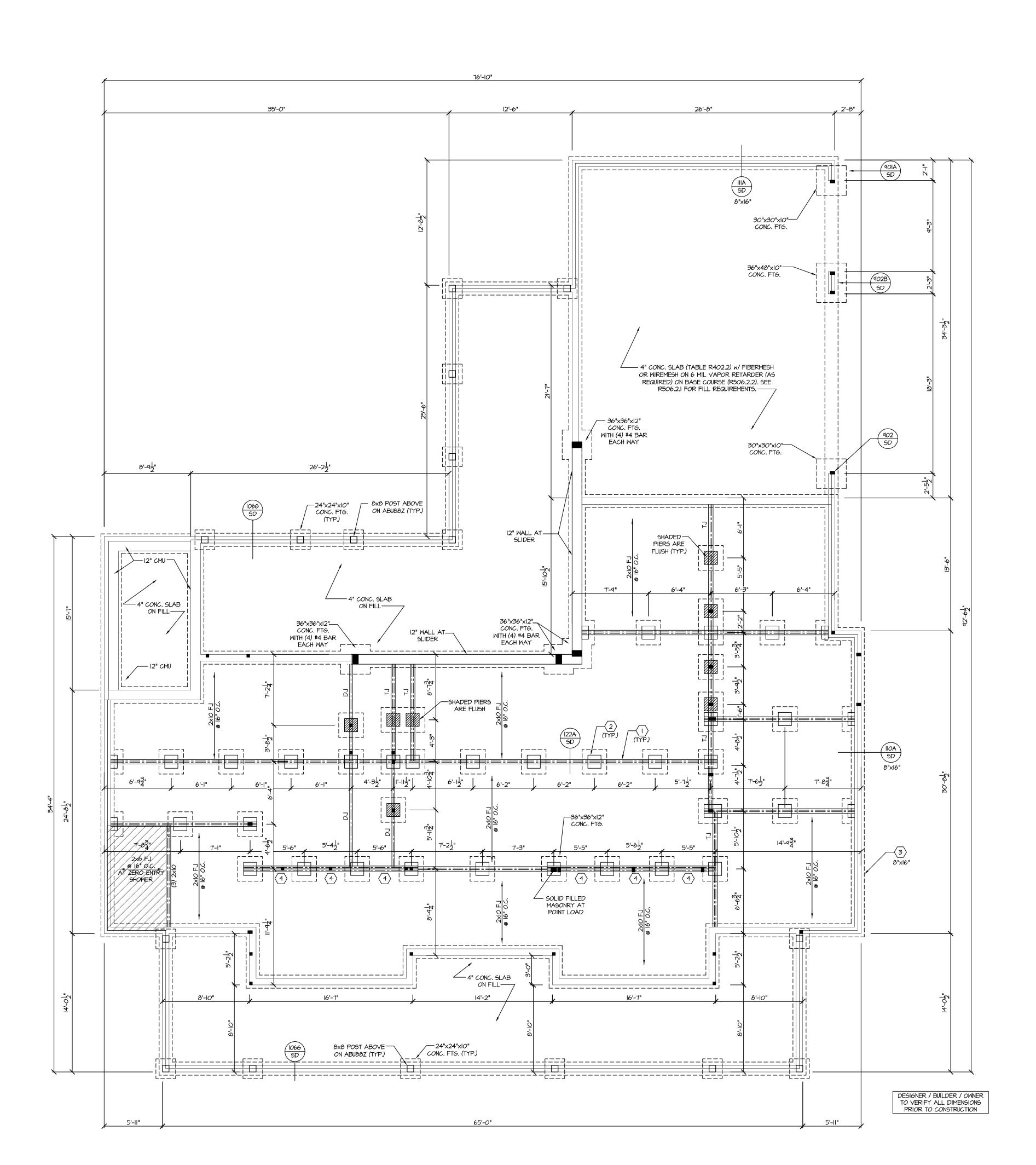
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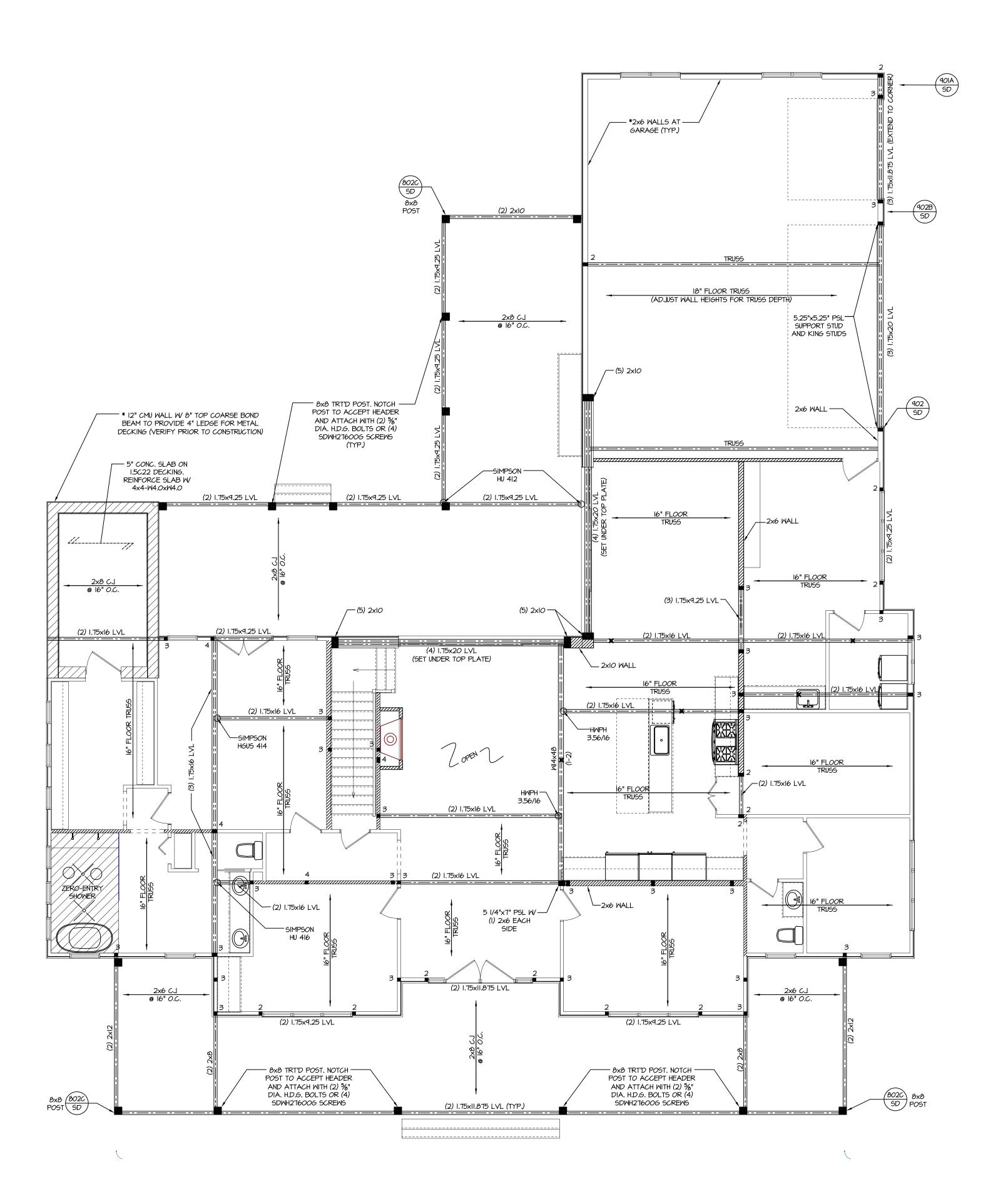
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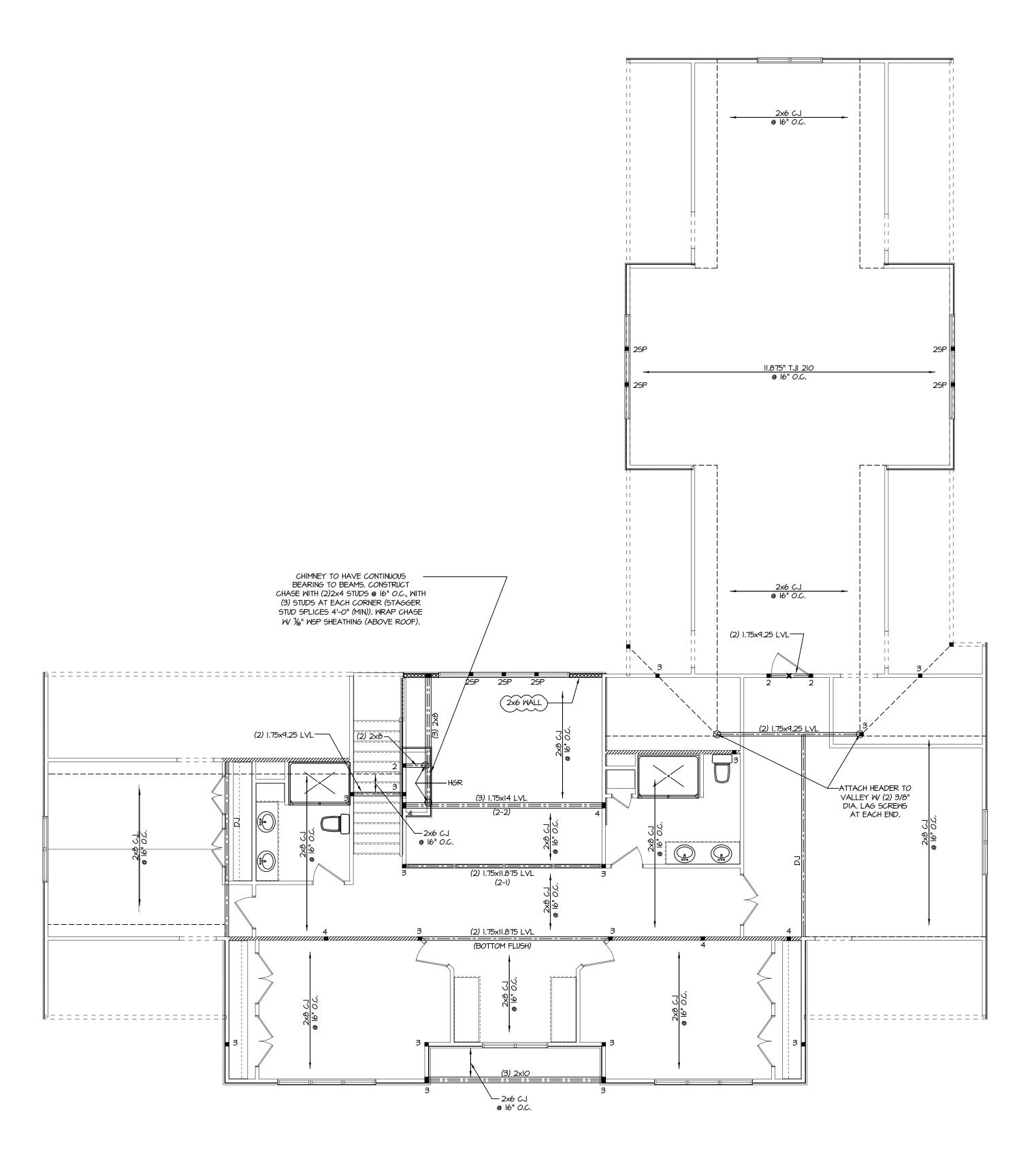
Residence

Yellowbrick Road Pittsboro, North Carolina Dalton

FIRST FLOOR STRUCTURAL PLAN

THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF SOUTHERN ENGINEERS, P.A. THIS PLAN IS FOR ONE TIME USE FOR THE CLIENT AND LOCATION NOTED. SOUTHERN ENGINEERS, P.A. ASSUMES NO LIABILITY FOR THIS PLAN IF IT IS REPRODUCED AND/OR USED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM SOUTHERN ENGINEERS, P.A. STRUCTURAL PLANS SHALL BE REVIEWED BY DESIGNER, BUILDER, AND/OR OWNER FOR CONFORMANCE WITH THE ARCHITECTURAL DESIGN CONCEPT PROVIDED. ALL DIMENSIONS SHALL BE VERIFIED BY DESIGNER, BUILDER, AND/OR OWNER PRIOR TO CONSTRUCTION.





DIANE RIVES

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PROJECT #

22-1659

DESIGNS

Residence

Yellowbrick Road Pittsboro, North Carolina Dalton

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SECOND FLOOR STRUCTURAL PLAN

PROJECT #

22-1659

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RIVE

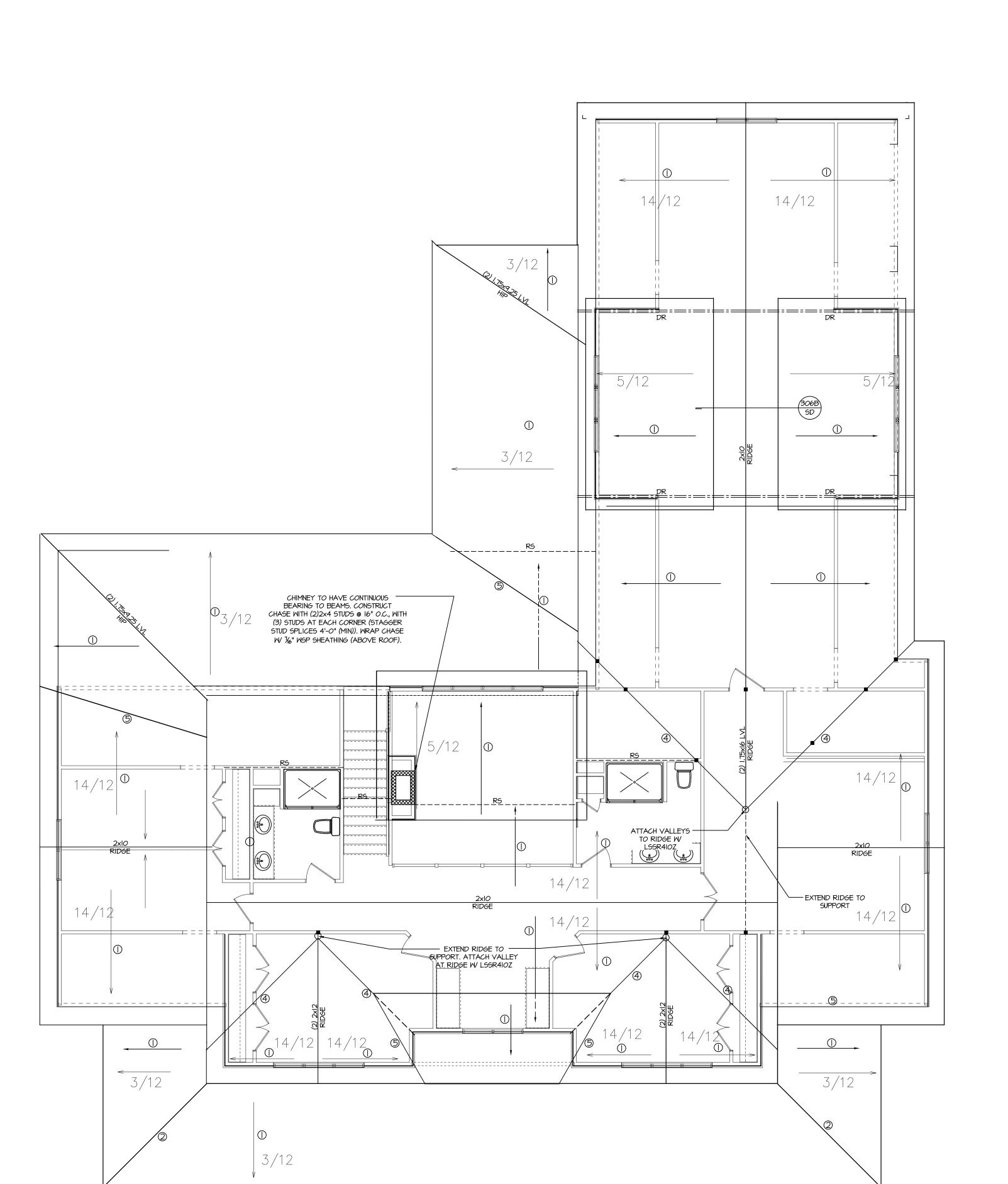
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Residence

Dalton

Yellowbrick Road Pittsboro, North Carolina

DESIGN



ROOF FRAMING NOTES: NC (2018 NCRC): Wind: 115-120 mph

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

(2) 2xIO OR I.75xII.675 LVL HIP. (2) 2xIO HIPS MAY BE SPLICED WITH A MIN. 6'-O" OVERLAP AT CENTER

(3) (2) 2xIO OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS

(4) (2)1.75×9.25 LVL VALLEY

(5.) FALSE FRAME VALLEY ON 2XIO FLAT PLATE 6) 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.

7.) 2x10 RAFTERS @ 16" O.C. W 2x12 RIDGE, UNO.

8) EXTEND RIDGE 12" BEYOND INTERSECTION

"SR" = SINGLE RAFTER
"DR" = DOUBLE RAFTER
"TR" = TRIPLE RAFTER

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

HEIGHT)
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.

THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF SOUTHERN ENGINEERS, P.A. THIS PLAN IS FOR ONE TIME USE FOR THE CLIENT AND LOCATION NOTED. SOUTHERN ENGINEERS, P.A. ASSUMES NO LIABILITY FOR THIS PLAN IF IT IS REPRODUCED AND/OR USED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM SOUTHERN ENGINEERS, PA. STRUCTURAL PLANS SHALL BE REVIEWED BY DESIGNER, BUILDER, AND/OR OWNER FOR CONFORMANCE WITH THE ARCHITECTURAL DESIGN CONCEPT PROVIDED. ALL DIMENSIONS SHALL BE VERIFIED BY DESIGNER, BUILDER, AND/OR OWNER PRIOR TO CONSTRUCTION.

# ROOF STRUCTURAL PLAN

SCALE: 3/6"=1'-0" REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES

#### 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 B' 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, IO PSF, L/360)
- EXTERIOR BALCONIES: (60 PSF, I0 PSF, L/360) DECKS: (40 PSF, IO PSF, L/360)

SNOW: (20 PSF)

- GUARDRAILS AND HANDRAILS: (200 LBS)
- PASSSENGER VEHICLE GARAGES: (50 PSF, IO PSF, L/360) FIRE ESCAPES: (40 PSF, IO PSF, L/360)
- 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 以" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +-IO'-O" x +-IO'-O" 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) =
- 9. L.Y.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=1.55xIO 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
- 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'-O". SEE ALSO SECTION R703.8.3 LINTELS.

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

- 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.
- 3. WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING PLATE. BLOCK AT ROOF PER SECTION R602.10.4.5 AND ATTACH BRACED WALLS PER CODE, WSP SHEATHING BETWEEN FLOORS SHALL 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.
- 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 • \*\*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON CS22
- 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

6. INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBM-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.

### HEADER/BEAM & COLUMN NOTES

INTERMEDIATE SUPPORTS.

- I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2xIO (4" WALL) OR (3)2xIO (6" WALL) WITH (I) SUPPORT STUD, UNLESS NOTED
- 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020: •• UP TO 3' SPAN: (I) KING STUD
- •• 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

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

- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- 2. TRUSS SCHEMATICS (PROFILES) SHALL BE 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.

### LVL CONNECTION LEGEND

- I. (2) PLY 1.75" LVL BEAMS:
- (3) ROWS OF IOD NAILS @ 12" O.C. OR • (2) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C.
- 2. (3) PLY 1.75" LVL BEAMS: (3) ROWS OF IOD NAILS @ 8" O.C. ON
- EACH SIDE OR • (2) ROWS OF SIMPSON SDW22500 (OR
- EQUAL) SCREMS @ 16" O.C. 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 GREATER THAN 18".

GIRDER EXTENSION-

(WHEN APPLICABLE)

(4) SDWH27600G -

(4) SDWH27400G -

8"x8" TRT -

PILING/POST

PLAN VIEW

NOTE: FOR 3" WIDE -

AT STRAPS.

HEADER).

HEADERS IN 2x6 WALLS,

PROVIDE SOLID BLOCKING

(2) SIMPSON CSI6 STRAP

TO WALL TOP PLATE AND -

NAILS @ 8" OC.

REQUIREMENTS).

1,000 LB HOLDOWN

HOLDOWN W/ 18-10d

(SIMPSON HTT4

NAILS OR EQUAL)

HOLDOWN ANCHOR

TITEN HD (THD501200H)

STRAP OPTION (MONO:

STRAP-TIE HOLDOWN.

(EMBEDDED 12") WITH

SIMPSON SET EPOXY.

ROD TO FOOTING)

CMU: %" THREADED ROD

SIMPSON STHD14

ATTACH KING STUD TO-

AND (1) KING STUD (SEE

PLAN FOR STUD COLUMN

SUPPORT STUDS WITH IOD

WITH 8d NAILS. (EXTEND

EXTEND 20" UNDER

-SIMPSON PSQ218

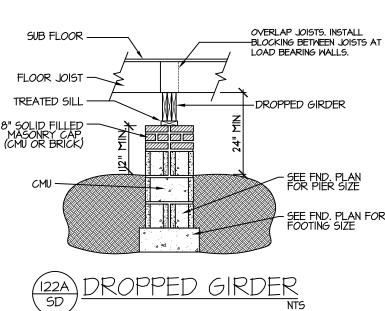
STRAP W/ SDWH

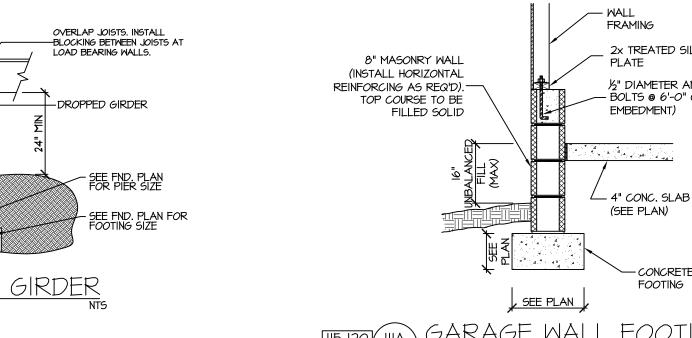
SCREWS

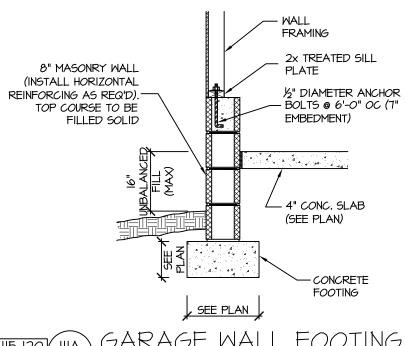
-SIMPSON PSQ218

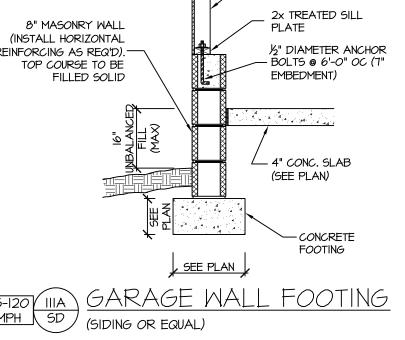
STRAP W/ SDWH

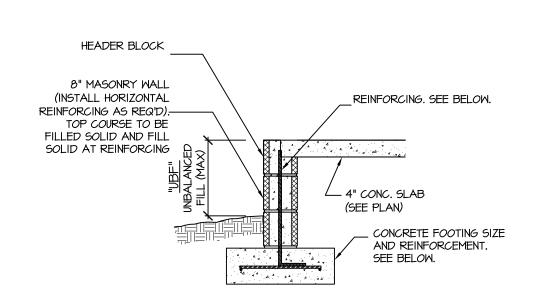
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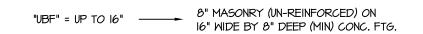








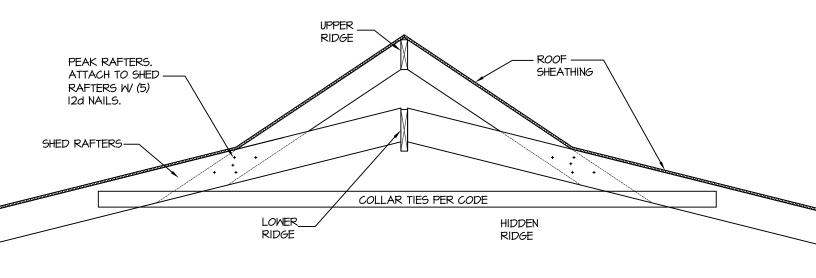


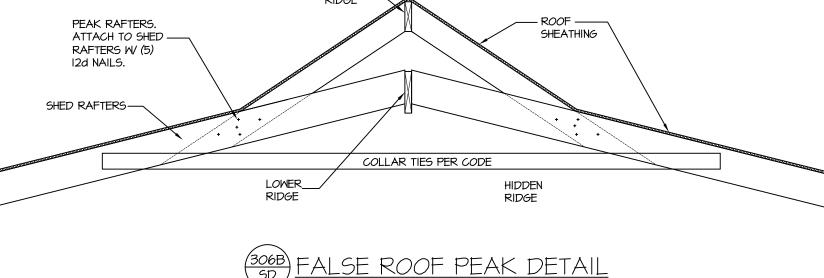


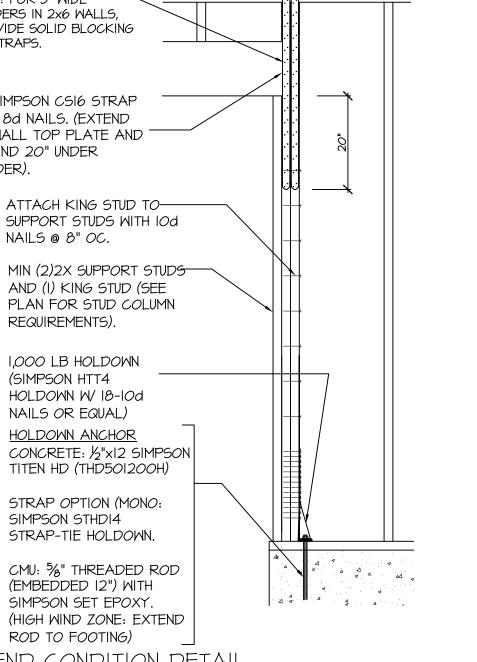
REINFORCE WALL W/ #5 BAR @ 48" O.C. W/ 7.5" BEND INTO FTG. 24" WIDE BY IO" DEEP CONC FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48" O.C.

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.

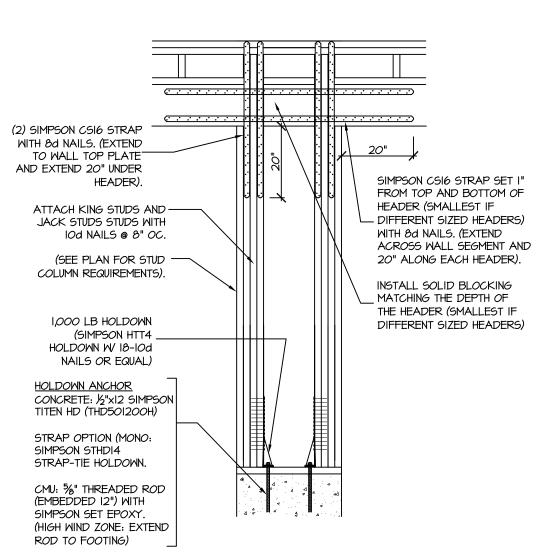






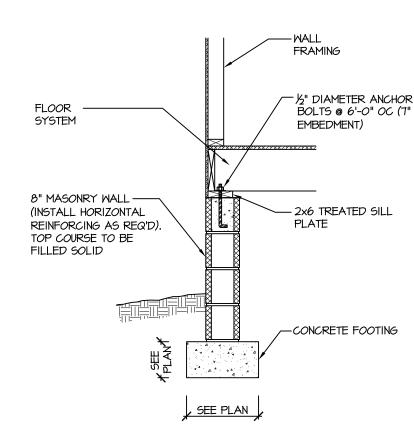


END CONDITION DETAIL (FOR USE WITH SINGLE APA PORTAL FRAME CONDITION) DETAIL AND APPLICATION BASED ON APA TT-100F WITH USE OF TABLE I FOR APA PORTAL FRAME WITH HOLD-DOWN CAPACITIES.

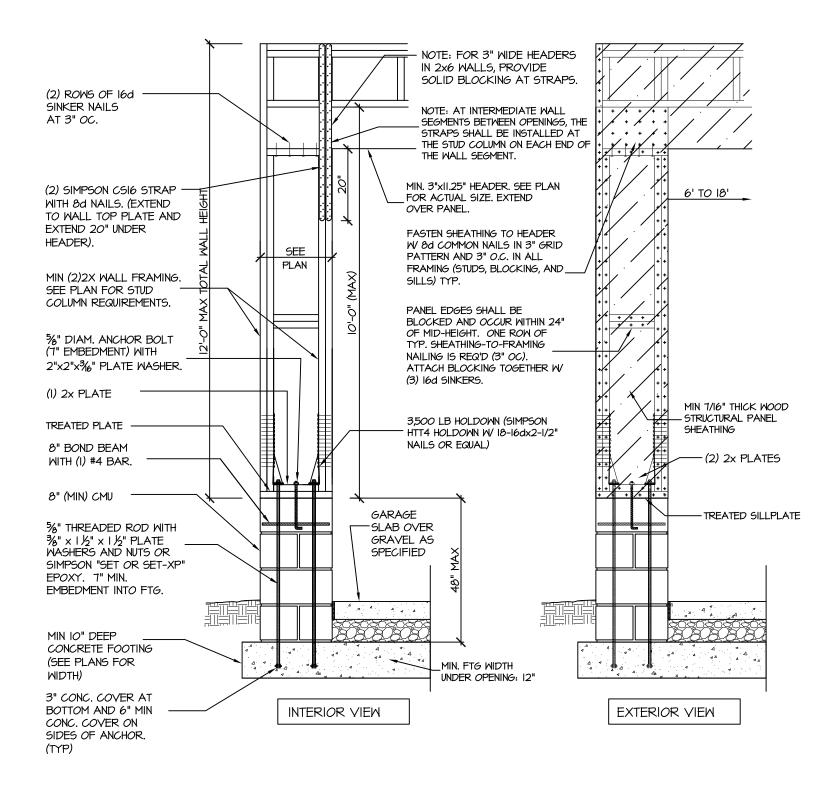


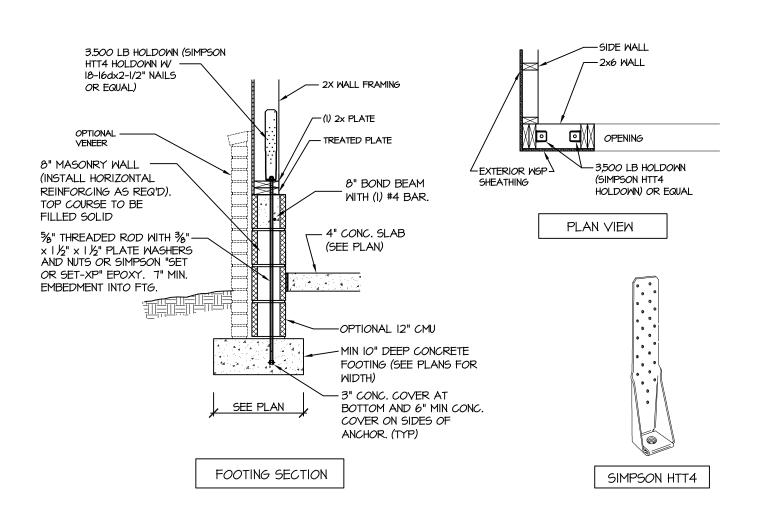
<u>DUAL END CONDITION DETAIL</u> (FOR USE WITH APA PORTAL FRAME CONDITION OR AS OTHERWISE SPECIFIED) DETAIL AND APPLICATION BASED ON APA TT-100F WITH USE OF

TABLE I FOR APA PORTAL FRAME WITH HOLD-DOWN CAPACITIES.









APA PORTAL FRAME W/ HOLD-DOWNS DETAIL AND APPLICATION BASED ON APA TT-100F WITH USE OF TABLE I FOR APA PORTAL FRAME WITH HOLD-DOWN CAPACITIES.

22-1659

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