



**FRONT ELEVATION**  
 SCALE: ..... 1/8" = 1'-0"

ATTIC VENTILATION	
REQUIRED	2156 SQ. FT. OF ATTIC / 300 = 7.19 SQ. FT. OF INLET & OUTLET
PROVIDED (INLET)	07 SQ. FT. PER LINEAR FT. OF VENT. x 140 LINEAR FT. OF VENT. = 9.80 SQ. FT. OF VENT. (TOTAL OF INLET)
PROVIDED (OUTLET)	11 SQ. FT. PER LINEAR FT. OF VENT. x 69 LINEAR FT. OF VENT. = 7.59 SQ. FT. OF VENT. (TOTAL OF OUTLET)
	17.39 TOTAL SQ. FT. OF VENT.

WALL VENTED CRAWL SPACE	
REQUIRED	1618 SQ. FT. / 150 = 10.79 SQ. FT. OF VENTILATION

CLOSED CRAWL SPACE VENTILATION METHODS	
(SEE REFERENCED SECTIONS IN CODE BOOK FOR DETAILED INSTRUCTIONS)	
(R409.5.1) DEHUMIDIFIER	A PERMANENTLY INSTALLED DEHUMIDIFIER SHALL BE PROVIDED IN THE CRAWL SPACE WITH THE MINIMUM RATED CAPACITY OF 15 PINTS PER DAY.
(R409.5.2) SUPPLY AIR	1618 SQ. FT. / 30 = 54 CFM
(R409.5.3) HOUSE AIR	1618 SQ. FT. / 50 = 33 CFM
(R409.5.4) EXHAUST FAN	1618 SQ. FT. / 50 = 33 CFM
(R409.5.5) CONDITIONED SPACE	THE CRAWL SPACE SHALL BE DESIGNED AS A HEATED AND COOLED, CONDITIONED SPACE WITH WALL INSULATION INSTALLED AS PER THE REQUIREMENTS OF SECTION R409.8.1.

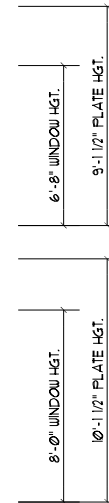
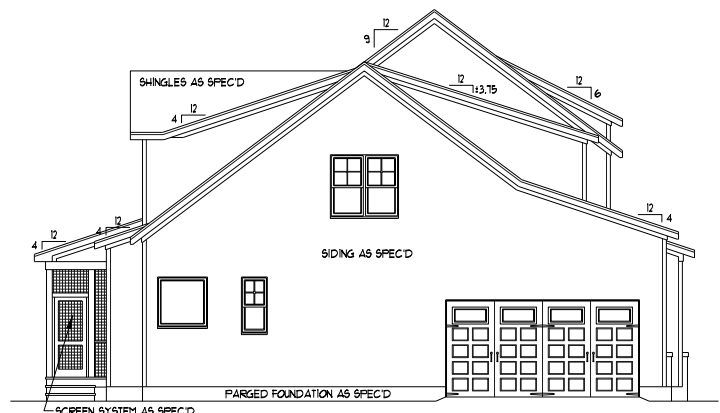


TABLE 402.1.1 ENERGY CONSERVATION CODE INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

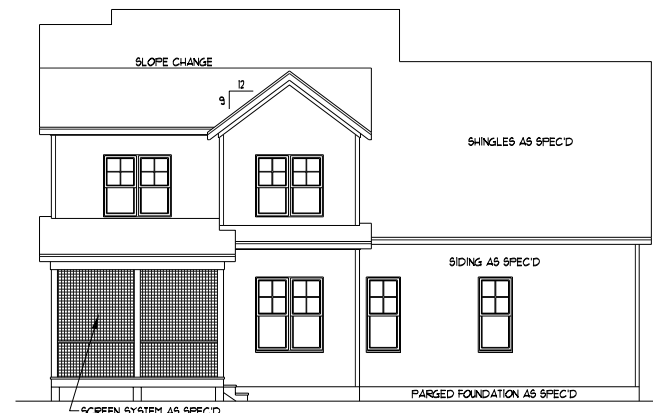
CLIMATE ZONE	FENS. U-FAC	SKY-LIGHT U-FAC	GLAZED FENS. SHGC	MINIMUM INSULATION R-VALUE						
				CEILING	WOOD WALL	MASS WALL	FLOOR	BSPNT WALL & DEPTH	SLAB	CRAWL SPACE
3	0.35	0.35	0.30	30 or 30 cont.	15 or 13.25 or 5/10 cont.	5/13 or 5/10 cont.	19	5/13	0	5/13
4	0.35	0.35	0.30	30 or 30 cont.	15 or 13.25 or 5/10 cont.	5/13 or 5/10 cont.	19	10/13	10	10/13
5	0.35	0.35	NR	30 or 30 cont.	19, 13.25 or 15.13 or 13.125 cont.	13/11 or 13/12.5 cont.	30	10/13	10	10/13

SEE TABLE 301.1 CLIMATE ZONES BY COUNTY ENERGY CONSERVATION CODE  
 SEE FOOTNOTES OF TABLE N101.1 FOR FOOTNOTES AND DETAILED EXPLANATIONS.

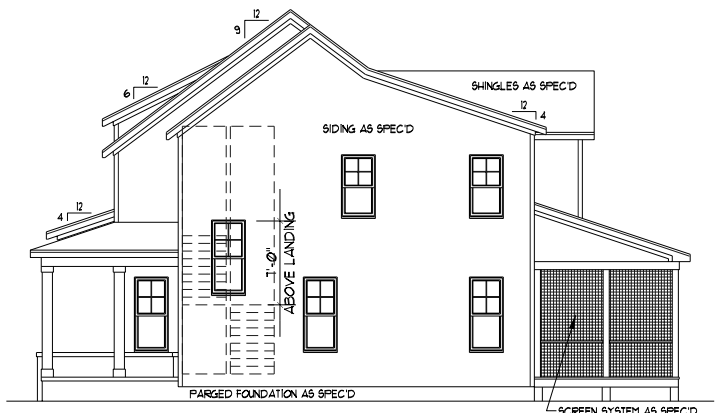
THIS PLAN CONFORMS TO THE 2018 EDITION OF THE I.R.C. / NORTH CAROLINA RESIDENTIAL CODE.



**LEFT SIDE ELEVATION**  
 SCALE: ..... 1/16" = 1'-0"



**REAR ELEVATION**  
 SCALE: ..... 1/16" = 1'-0"



**RIGHT SIDE ELEVATION**  
 SCALE: ..... 1/16" = 1'-0"

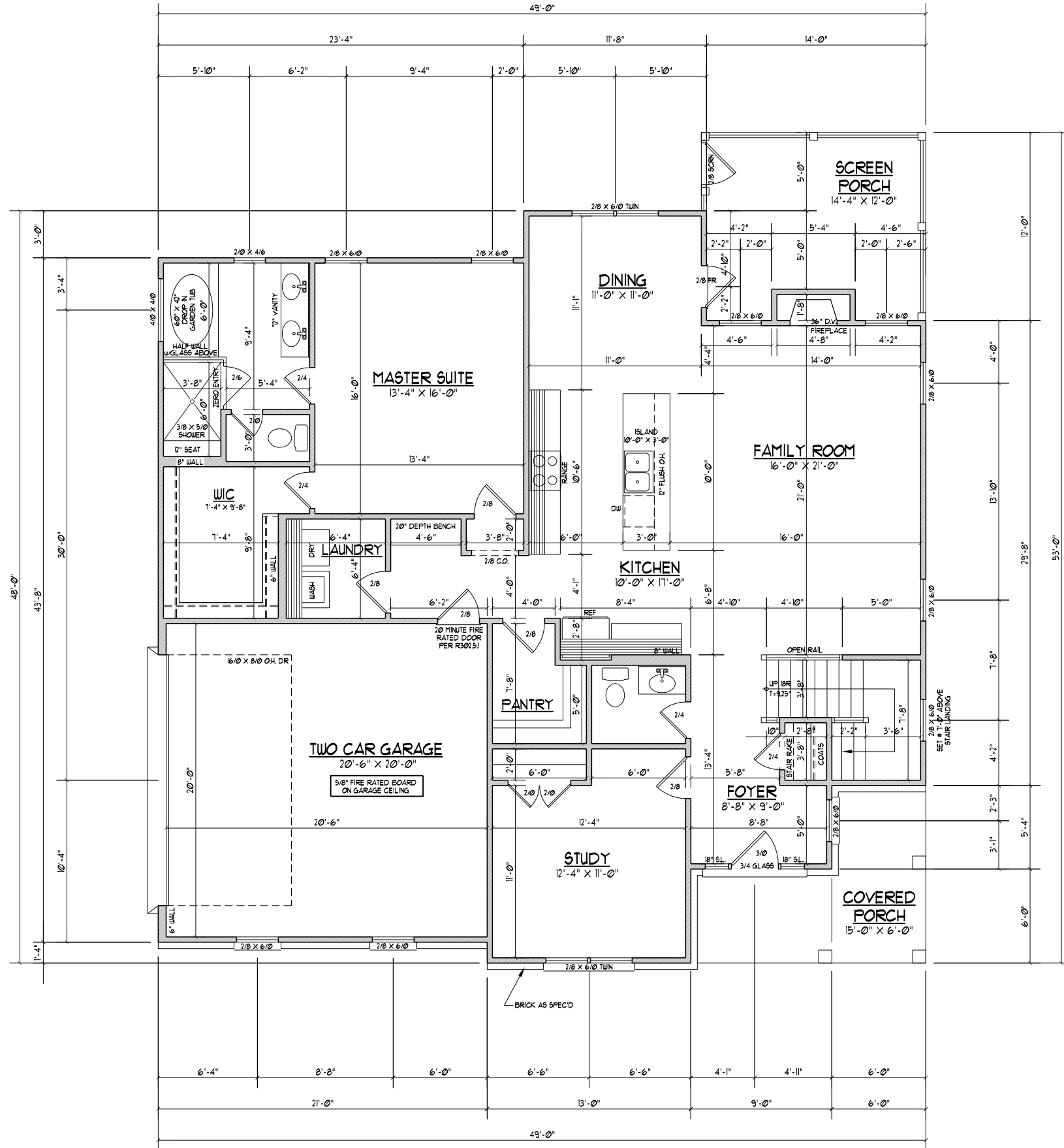
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 www.DynamicDesignGroupinc.com

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Contractor shall verify all conditions and dimensions prior to construction. Any error or omissions shall be reported to Dynamic Design Group for corrections or justification. Once construction has commenced, the contractor shall assume all responsibility. Dimensions govern over scale, code governs over dimensions.

KEN HARVEY HOMES  
 PROJECT FOR:  
 LOCATION: FUQUAY-VARINA  
 LOT: 11  
 SUBDIVISION: COTTON FARMS  
 COUNTY: HARNETT

**LINDSEY**  
 PLAN NAME  
**C-2887-49GL**  
 PLAN I.D.  
**10.5.23**  
 DATE



**FIRST FLOOR PLAN**  
 SCALE: ..... 1/8" = 1'-0"

1601 HEATED SQ. FT.  
 421 SQ. FT. GARAGE  
 122 SQ. FT. SCREEN PORCH  
 170 SQ. FT. PATIO

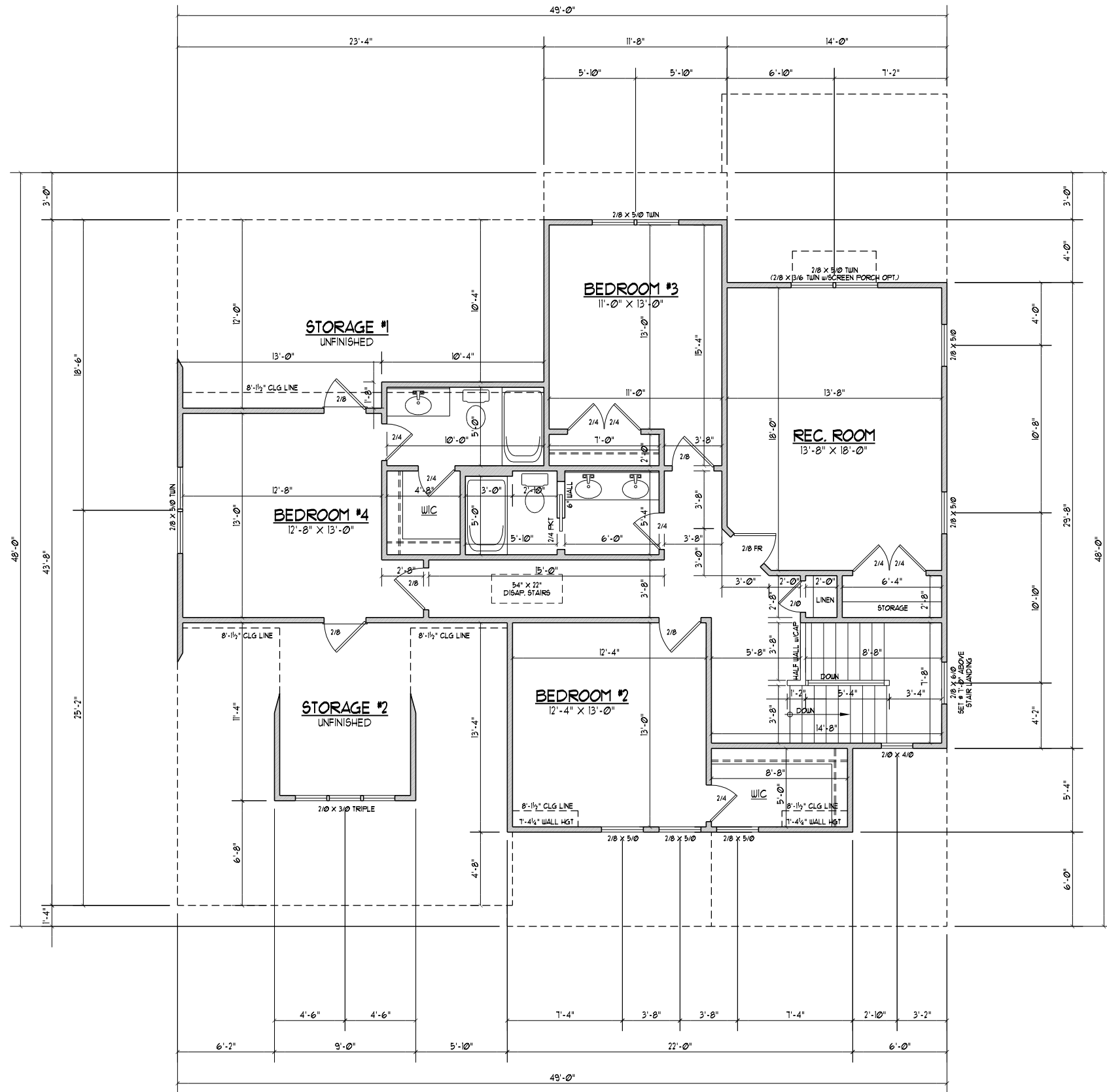
- NOTES:
- 1) 10'-0" CLG. HGT. (10' - 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED.
  - 2) ALL WALLS DRAIN AT 4" WIDTHS
  - 3) SET WINDOWS AT 1'-4" A.S.F. UNLESS OTHERWISE NOTED.
  - 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
  - 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPENINGS.
  - 6) ELECTRICAL LAYOUT BY BUILDER

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**10.5.23**  
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**SECOND FLOOR PLAN**  
 SCALE ..... 1/8"=1'-0"

1280 HEATED SQ. FT.  
 111 SQ. FT. UNFINISHED STORAGE #1  
 160 SQ. FT. UNFINISHED STORAGE #2

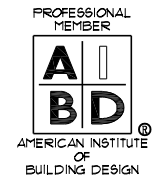
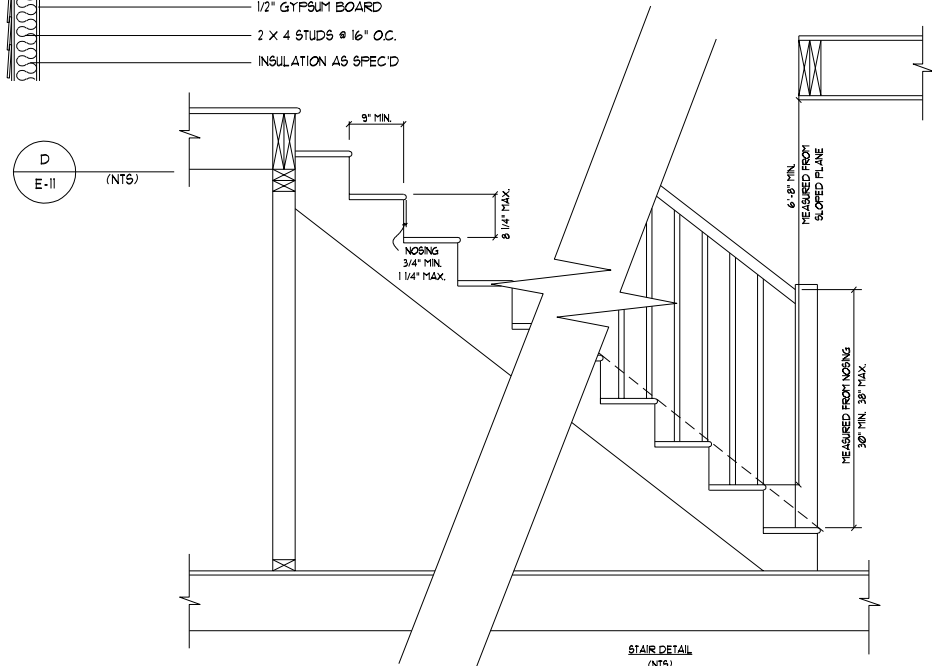
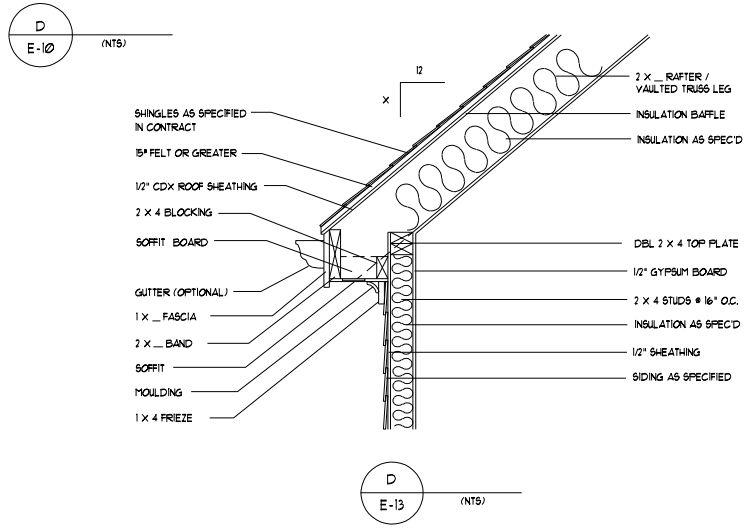
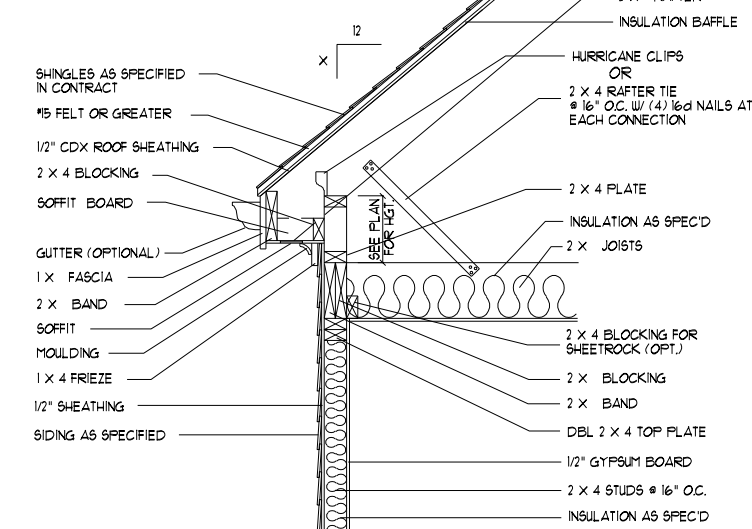
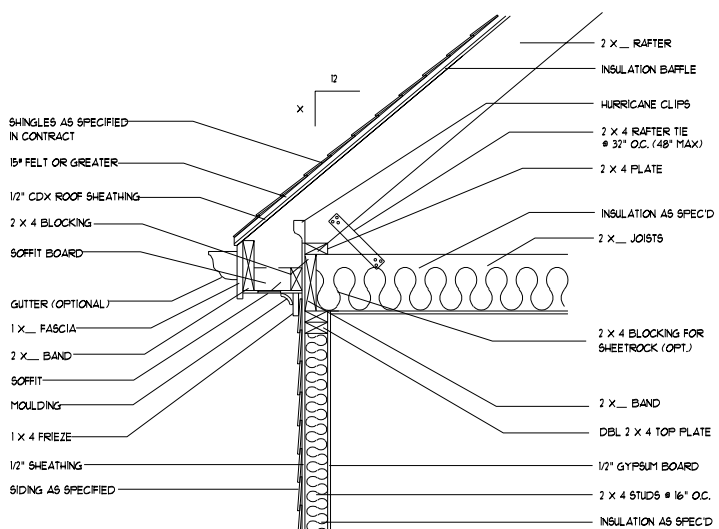
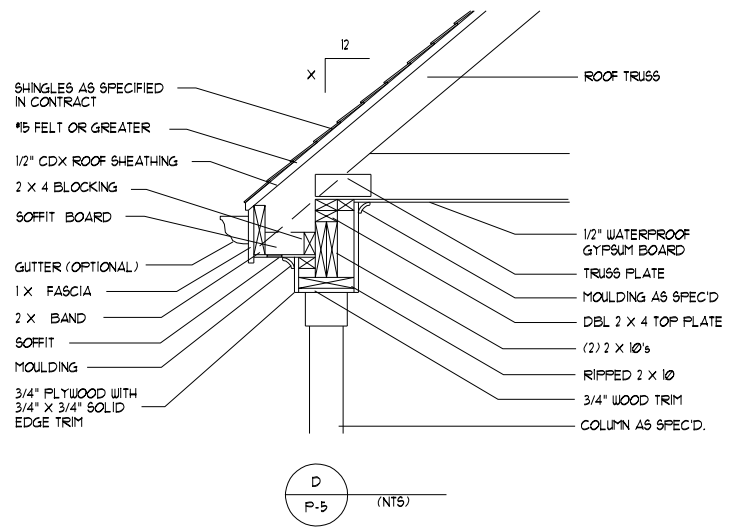
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 LOCATION: FUQUAY-VARINA  
 LOT: 11  
 SUBDIVISION: COTTON FARMS  
 COUNTY: HARNETT

**LINDSEY**  
 PLAN NAME  
**C-2887-49GL**  
 PLAN I.D.  
**10.5.23**  
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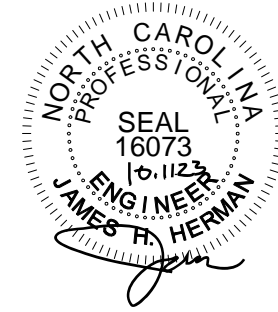
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Dimensions govern over scale, code governs over dimensions.

PROJECT FOR: KEN HARVEY HOMES  
 LOCATION: FUQUAY-VARINA  
 LOT: 11  
 SUBDIVISION: COTTON FARMS  
 COUNTY: HARNETT

**LINDSEY**  
 PLAN NAME  
**C-2887-49GL**  
 PLAN I.D.  
**10.5.23**  
 DATE

**D-1**  
 SHEET

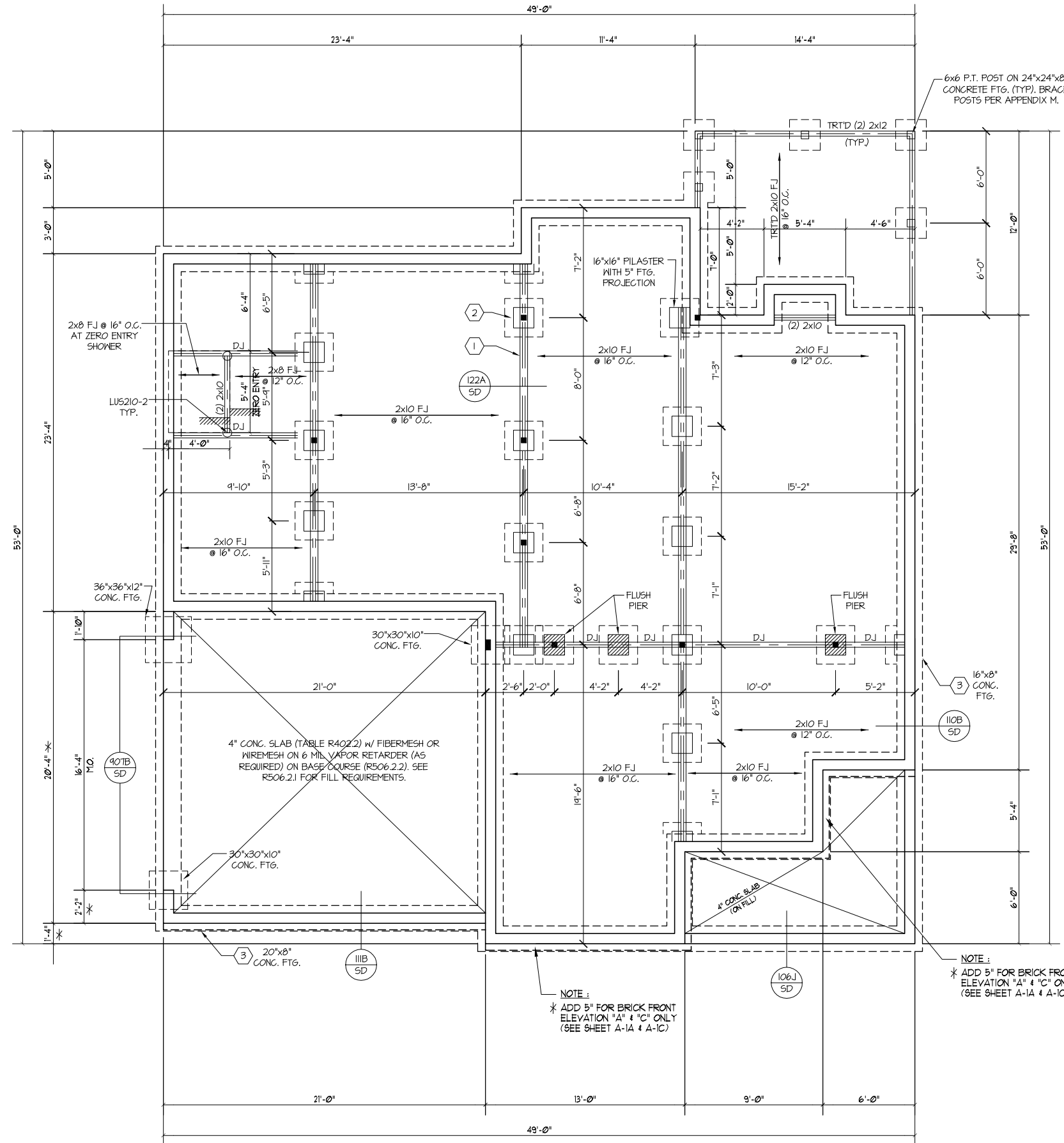


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License: C-4772  
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**DYNAMIC  
DESIGN  
GROUP**

"Lindsey - Garage Left"  
240 Hook Drive  
Fuquay Varina, NC 27526  
Lot 11, Cotton Farms  
KEN HARVEY HOMES



**FOUNDATION STRUCTURAL NOTES**

NC (2018 NRC), Wind: 115-120 mph - GRAHL

- ① (3) 2x10 SYP #2 OR SFF #2 GIRDER, TYPICAL UNO.
- ② CONCRETE BLOCK PIER SIZE SHALL BE:  

SIZE	HOLLOW	SOLID
8x16	UP TO 32"	UP TO 5'-0"
12x16	UP TO 48"	UP TO 4'-0"
16x16	UP TO 64"	UP TO 12'-0"
24x24	UP TO 96"	

 WITH 30" x 30" x 10" CONCRETE FOOTINGS, UNO.
- ③ WALL FOOTING AS FOLLOWS:  

DEPTH	8" - UP TO 2 STORY
10" - 3 STORY	
WIDTH	
SIDING	16" - UP TO 2 STORY
	20" - 3 STORY
BRICK	16" - 1 STORY
	20" - 2 STORY
	24" - 3 STORY
- FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R402.2 (1 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.
- ④ (4) 2x10 SFF #2 OR SYP #2 GIRDER
- ⑤ (2) 1.75x4.25 LVL OR LSL GIRDER
- ⑥ (3) 1.75x4.25 LVL OR LSL GIRDER
- 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 END, TYPICAL.
- 8. ABBREVIATIONS:  
 • "S.J." = SINGLE JOIST  
 • "D.J." = DOUBLE JOIST  
 • "T.J." = TRIPLE JOIST
- 9. ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

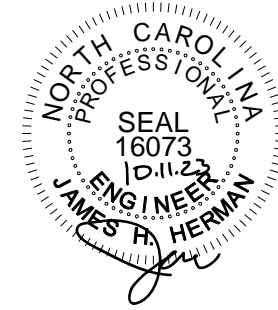
NOTE:  
\* ADD 5" FOR BRICK FRONT ELEVATION "A" & "C" ONLY (SEE SHEET A-1A & A-1C)

NOTE:  
\* ADD 5" FOR BRICK FRONT ELEVATION "A" & "C" ONLY (SEE SHEET A-1A & A-1C)

FOUNDATION STRUCTURAL PLAN

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

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

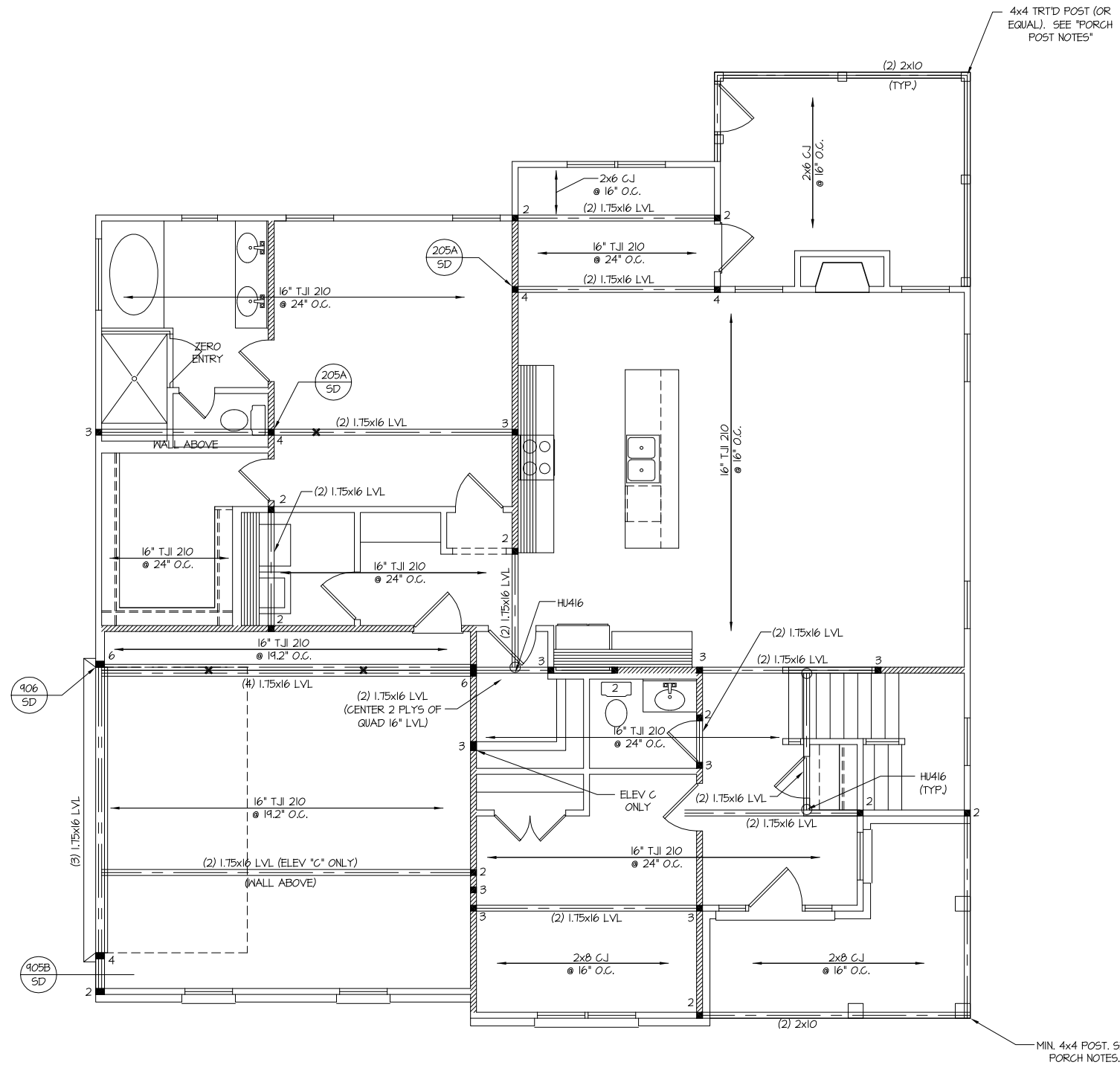


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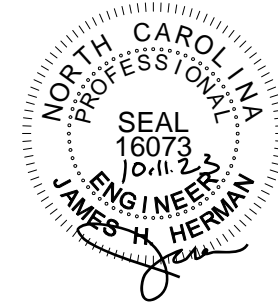
**HEADER/BEAM & COLUMN NOTES**

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x10 (4" WALL) OR (3)2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 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 NCD01 COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-9-2020:
  - UP TO 3' SPAN: (1) 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

**FIRST FLOOR STRUCTURAL PLAN**

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

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



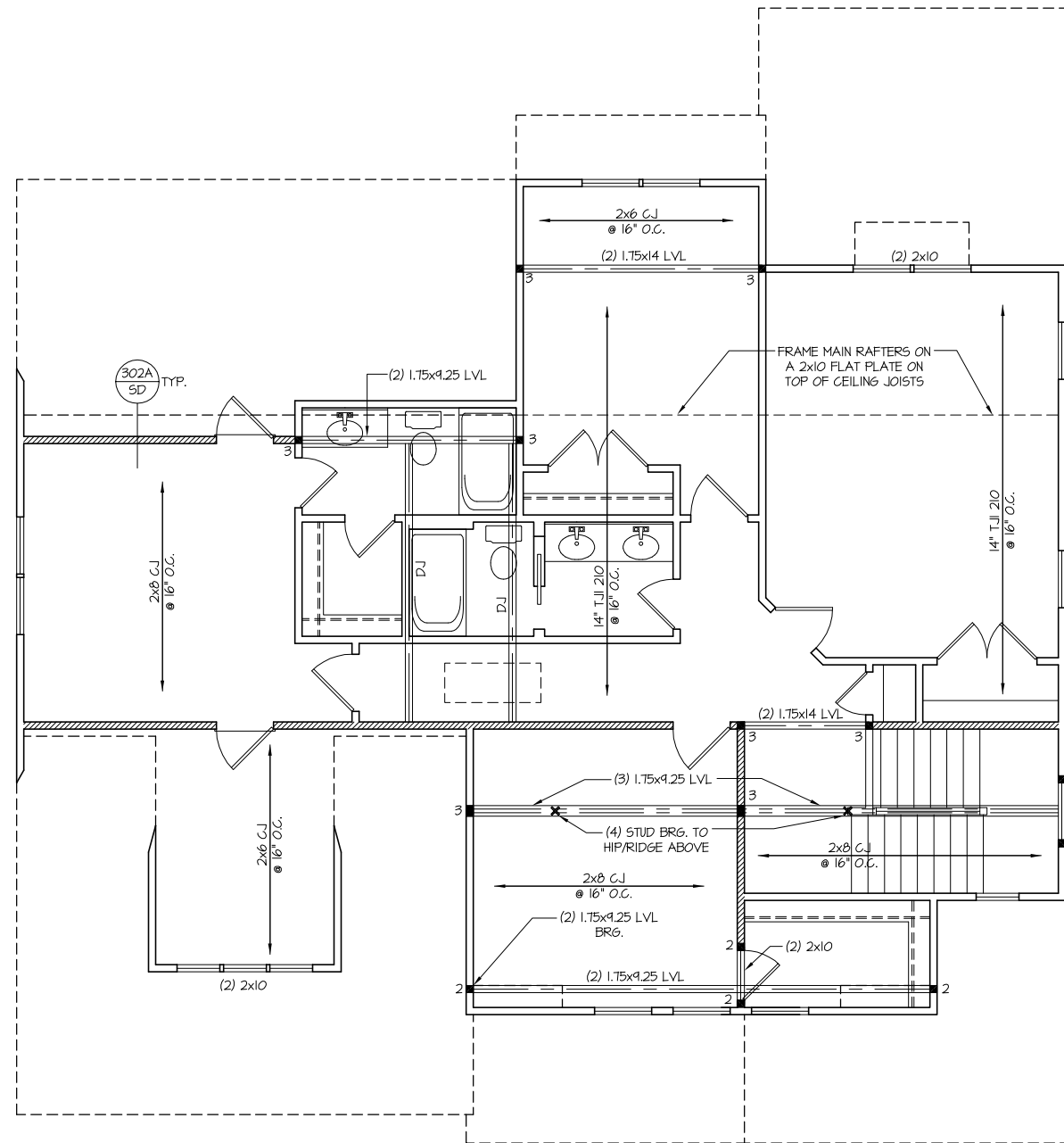
**PROJECT #**  
23-1300 (11CF)

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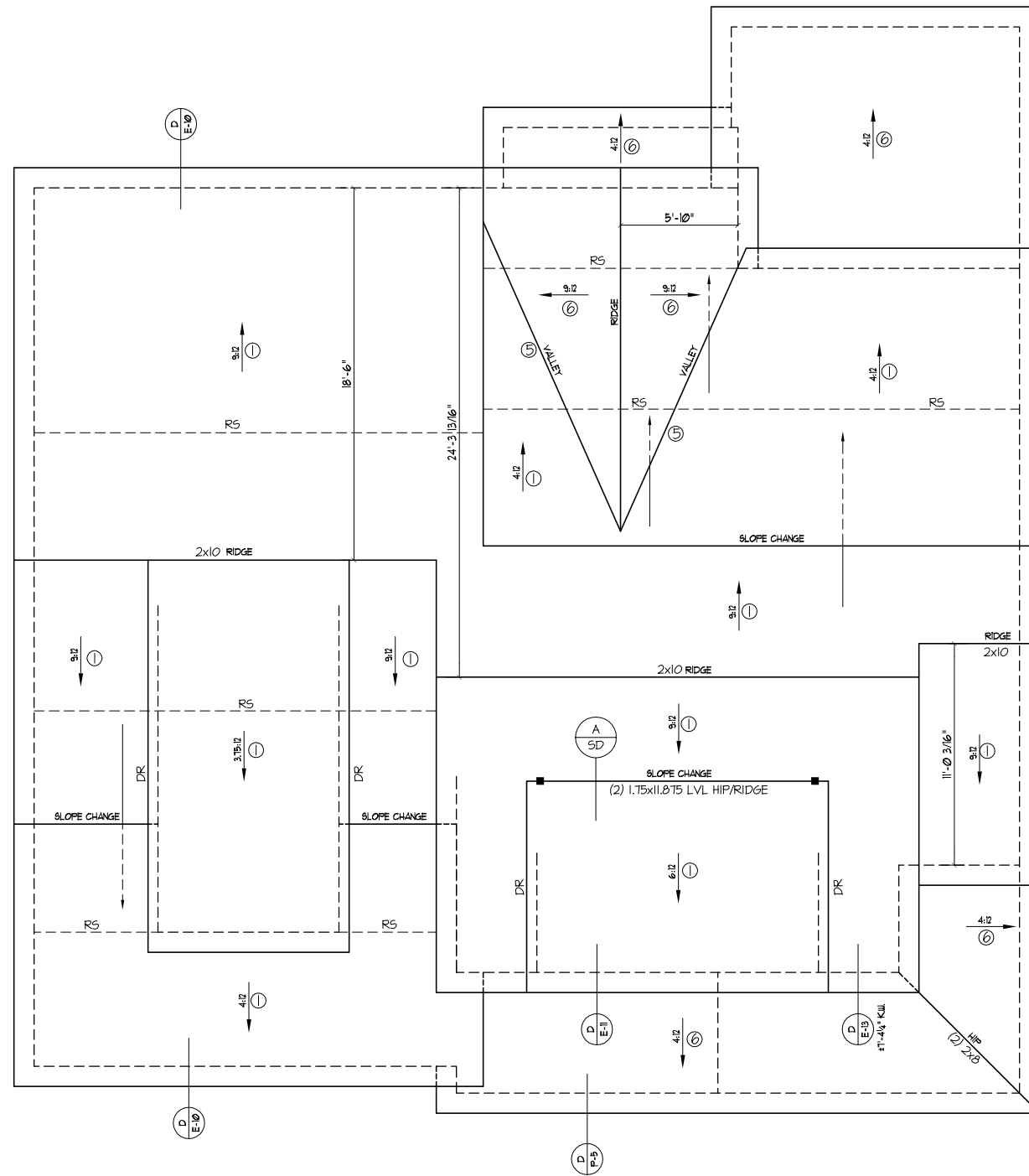
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  - OVER 3' UP TO 6' SPAN: (2) KING STUDS
  - OVER 6' UP TO 9' SPAN: (3) KING STUDS
  - OVER 9' UP TO 12' SPAN: (4) KING STUDS
  - OVER 12' UP TO 15' SPAN: (5) KING STUDS

**SECOND FLOOR STRUCTURAL PLAN**

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

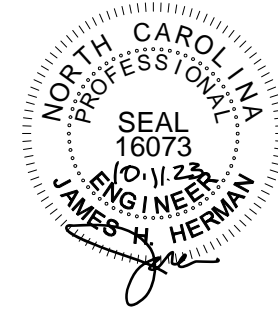
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS AND STRUCTURAL NOTES



**ROOF FRAMING NOTES:**

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

- ① 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
  - ② (2) 2x10 OR 1.75x11.875 LVL HIP, (2) 2x10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
  - ③ (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
  - ④ 1.75x11.875 LVL OR (2)1.75x9.25 LVL VALLEY
  - ⑤ FALSE FRAME VALLEY ON 2x10 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) 5TUD OR 4x4 POST FOR ROOF SUPPORT (USE 2x6 STUDS OR 6x6 POST FOR SUPPORT OVER 10'-0" 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 R802.3.1 OF THE 2018 NC RESIDENTIAL CODE.



**PROJECT #**  
23-1300 (11CF)

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**ROOF STRUCTURAL PLAN**

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

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

**S-4**



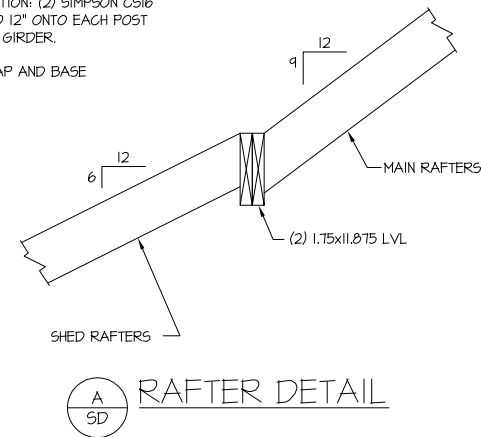
**STRUCTURAL NOTES**

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

- 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.
- 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.
- DESIGN LOADS (LISTED AS: LIVE LOAD, DEAD LOAD, DEFLECTION)
  - ROOMS OTHER THAN SLEEPING ROOMS: (40 PSF, 10 PSF, L/360)
  - SLEEPING ROOMS: (30 PSF, 10 PSF, L/360)
  - ATTIC WITH PERMANENT STAIR: (40 PSF, 10 PSF, L/360)
  - ATTIC WITHOUT PERMANENT STAIR: (20 PSF, 10 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, 10 PSF, L/360)
  - PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
  - SNOW: (20 PSF)
- WALLS SHALL BE BRACED BY SHEATHING WALLS ON ALL STORIES WITH WOOD STRUCTURAL PANELS. SEE FRAMING NOTES FOR THICKNESS AND NAILING REQUIREMENTS.
- SEE APPENDIX M (DGA6) FOR EXTERIOR DECK REQUIREMENTS INCLUDING ATTACHMENTS FOR LATERAL LOADS.
- 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 1/2". (I.E. 4" CONCRETE SLABS SHALL HAVE 1/4" DEEP CONTROL JOINTS SAWCUT IN SLAB ON A +10'-0" x +10'-0" GRID).
- 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.
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2. PLATE MATERIAL MAY BE SYP #3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI.
  - P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2.0x10<sup>6</sup> PSI.
  - L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 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 MANUFACTURER'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- 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.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- 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.
- 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 R103.B.3 LINTELS.

**HEADER/BEAM & COLUMN NOTES**

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x10 (4" WALL) OR (3)2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- 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 NCD01 COMMENTARY "KING STUDS AT WALL OPENINGS" REVISED 1-4-2020.
  - UP TO 3' SPAN: (1) 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



**FRAMING NOTES**

NC (2018 NCRG): 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.
- 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 1/2" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- 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.
- "HD" = HOLD-DOWN: 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 (OR EQUIV.)
  - \*\*UPPER FLOORS: ATTACH BASE OF KING STUD WITH A SIMPSON C520 OR C5HP20 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 1" MIN ALONG EACH STUD (OR HEADER) AND ATTACH EACH END W/ (1) 8d NAILS.
- INTERIOR BRACED WALL: (NOTED AS "IBW" ON PLANS) ATTACH 1/2" GYPSUM BOARD (GB) ON EACH SIDE OF WALL WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 1/4" WSP SHEATHING WITH 8d NAILS AT A 6 1/2" 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 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS. SEE SECTION R602.10.4.4 OF THE CODE.

**FLOOR FRAMING NOTES:**

- ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS (I.E. 16" OC FOR CERAMIC TILE)
- 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.
- 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.

**PORCH POST NOTES:**

- 4x4 (6x6) TRTD POST (OR EQUAL).
  - ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- POST CAP: SIMPSON AC4-MAX (AC6-MAX)
  - POST CAP AT CORNER: (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON H6.
  - POST BASE: SIMPSON ABU44 (ABU66).
    - MONO: 5/8" ANCHOR (EMBED 1")
    - CMU: 5/8" ANCHOR (EXTEND TO FOOTING - HIGH WIND ONLY)
  - POST BASE: WOOD FOUNDATION: (2) SIMPSON CS16 STRAPS AT POSTS. EXTEND 12" ONTO EACH POST (UPPER AND LOWER) OR TO GIRDER.
- NOTE: EQUIVALENT POST CAP AND BASE ACCEPTABLE.

NOTE: DETAILS WITH A 'D' REFERENCE (EX. "D-F10") ARE FOR ARCHITECTURAL REPRESENTATIONS ONLY. REFER TO "SD" SHEET(S) FOR STRUCTURAL DETAILS.

**LVL CONNECTION LEGEND**

- (2) PLY 1.75" LVL BEAMS:
  - (3) ROWS OF 10d NAILS @ 12" O.C. OR
  - (2) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS UP TO 18"
  - (3) ROWS OF SIMPSON SDW22338 (OR EQUAL) SCREWS @ 16" O.C. FOR BEAMS GREATER THAN 18".
- (3) PLY 1.75" LVL BEAMS:
  - (3) ROWS OF 10d NAILS @ 8" O.C. ON 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".
- (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".

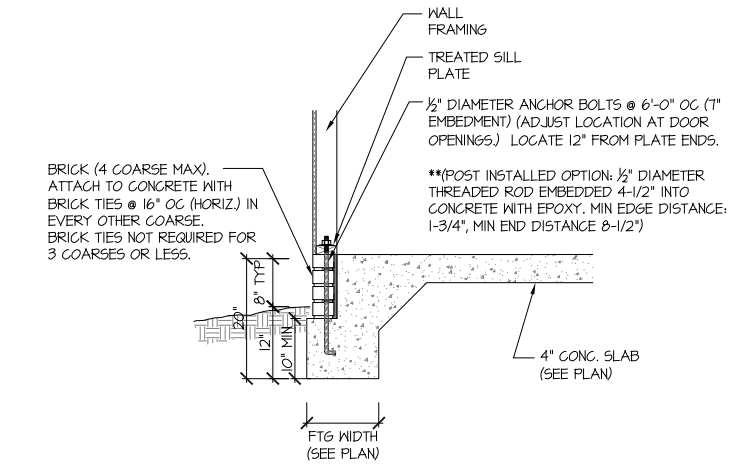
**WOOD I-JOISTS**

(SHALL BE ONE OF THE FOLLOWING):

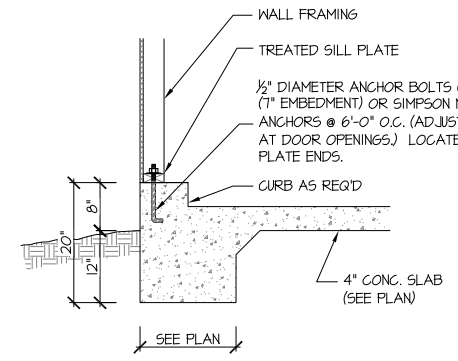
- TJI 210 BY TRUS JOIST
- LPI 20 PLUS BY LP
- ECI 5000s 1.8 BY EC
- BLI 40 BY onCENTER

- ALL I-JOISTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUASH BLOCKS, WEB STIFFENERS, ETC. AS REQUIRED BY AND ACCORDING TO THE I-JOIST MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
- HANGERS FOR I-JOISTS ARE THE RESPONSIBILITY OF THE I-JOIST SUPPLIER.

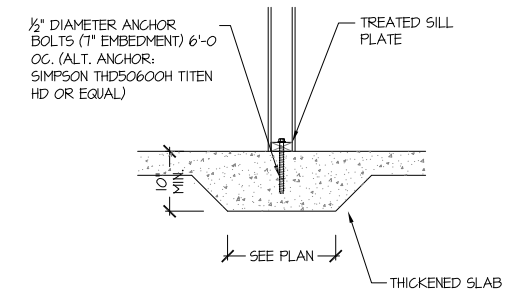
NOTE: I-JOISTS MAY BE SUBSTITUTED WITH FLOOR TRUSSES DESIGNED BY SUPPLIER (SAME DEPTH AND LAYOUT).



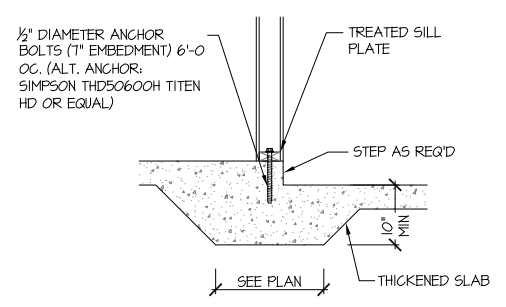
115-120 MPH (100B SD) MONOLITHIC SLAB FOOTING (WITH EXPOSED BRICK AT FOUNDATION) \*\*NOT TO BE USED AT PORTAL FRAME LOCATIONS. \*\*MAX 2 STORY



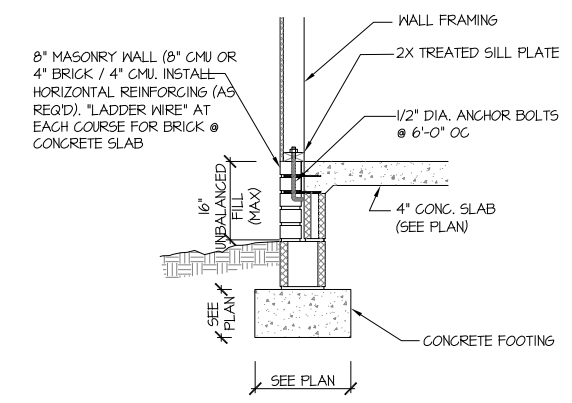
115-120 MPH (101A SD) MONOLITHIC SLAB @ GARAGE (SIDING OR EQUAL)



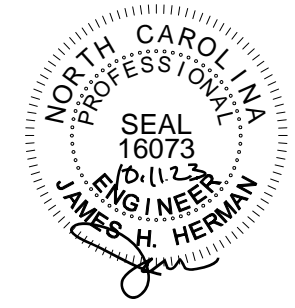
115-120 MPH (104A SD) THICKENED SLAB (INTERIOR BEARING WALL)



115-120 MPH (105A SD) THICKENED SLAB @ GARAGE (INTERIOR GARAGE WALL)



115-120 MPH (106B SD) STEM WALL SLAB FOOTING (SIDING W/ BRICK SKIRT)



**PROJECT #**  
23-1300 (11CF)

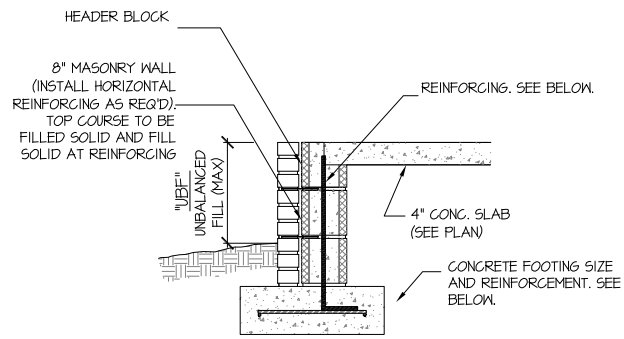
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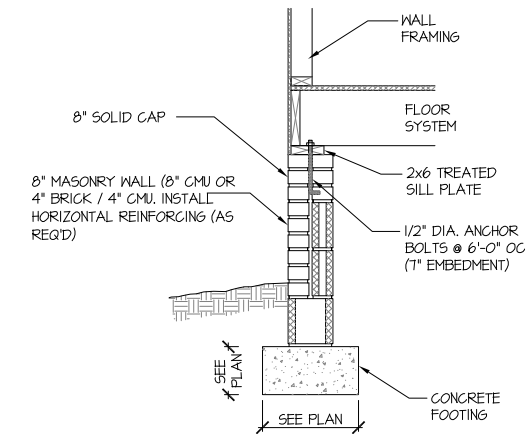
"Lindsey - Garage Left"  
240 Hook Drive  
Fuquay Varina, NC 27526  
Lot 11, Cotton Farms  
KEN HARVEY HOMES

**SD**

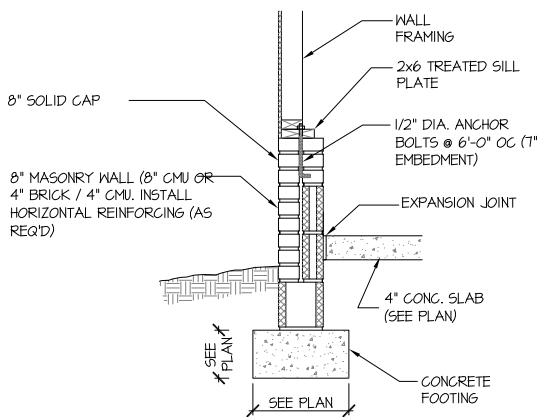


- "UBF" = UP TO 16" → 8" MASONRY (UN-REINFORCED) ON 16" WIDE BY 8" DEEP (MIN) CONG. FTG.
- "UBF" = 16" UP TO 24" → REINFORCE WALL W/ #5 BAR @ 48" O.C. W/ 1.5" BEND INTO FTG. 24" WIDE BY 10" DEEP CONG FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48" O.C.
- "UBF" = 24" UP TO 48" → REINFORCE WALL W/ #5 BAR @ 24" O.C. W/ 1.5" BEND INTO FTG. 24" WIDE BY 10" DEEP CONG FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 24" O.C.

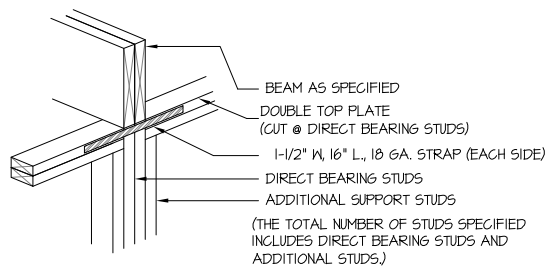
115-120 MPH 106J SD **FILLED PORCH WALL**  
(BRICK SKIRT)



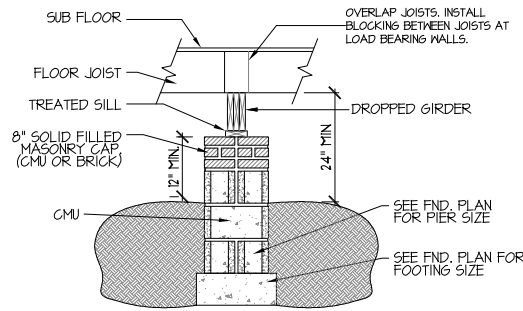
115-120 MPH 110B SD **CRAWL SPACE FOOTING**  
(SIDING W/ BRICK SKIRT)



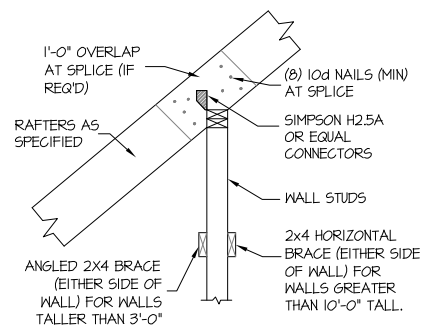
115-120 MPH 111B SD **GARAGE WALL FOOTING**  
(SIDING W/ BRICK SKIRT)



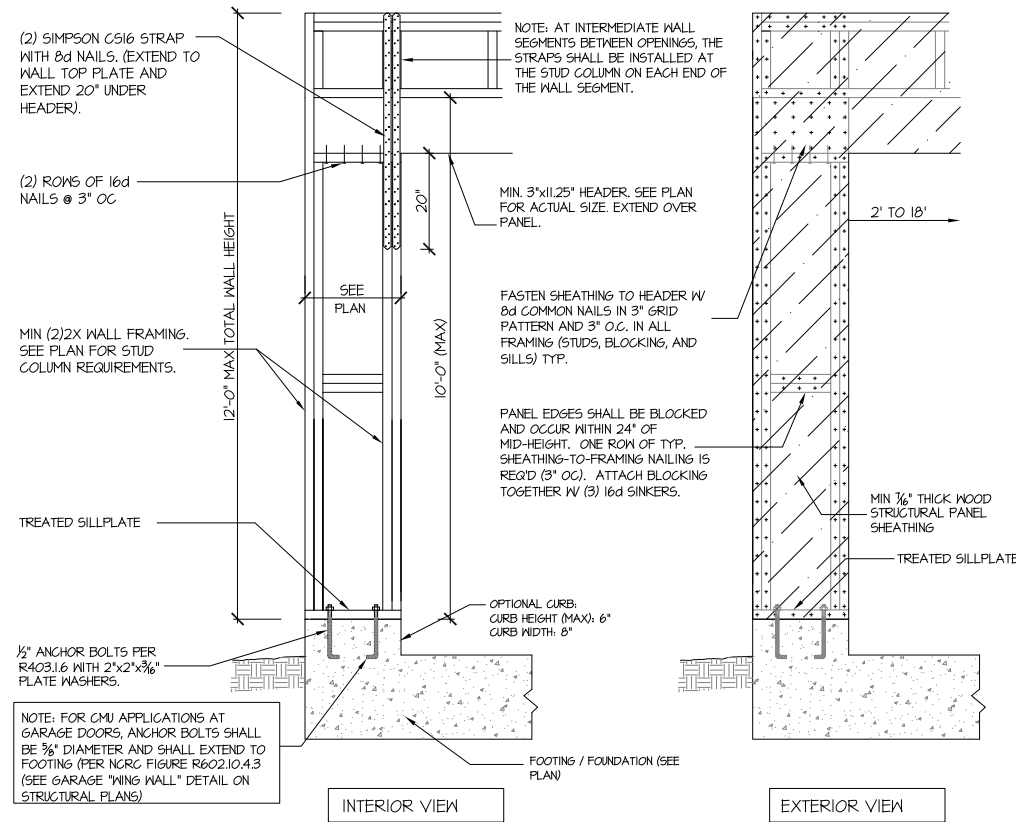
205A SD **DIRECT STUD BEARING**  
NTS



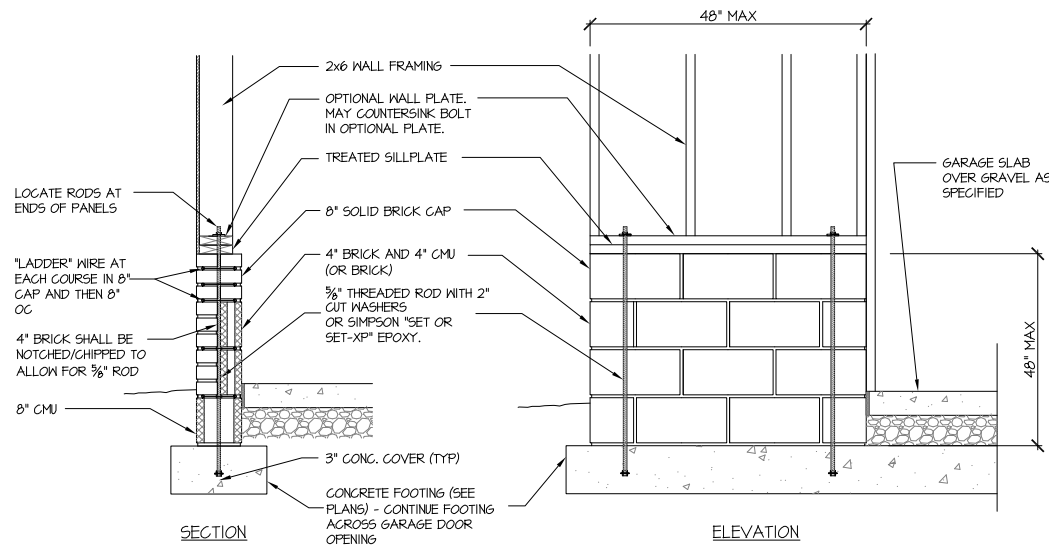
122A SD **DROPPED GIRDER**  
NTS



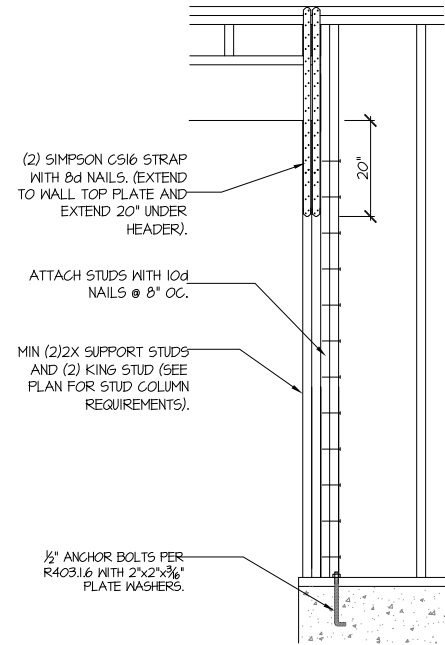
302A SD **TYPICAL RAFTER SUPPORT ON ATTIC KNEEWALL**  
2X4 BRACES NOT REQ'D FOR WALLS THAT ARE SHEATHED W/ WSP OR DRYWALL. NTS.



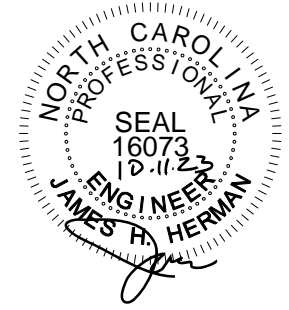
905B SD **CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION**  
DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



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



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



PROJECT #  
23-1300 (11CF)

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