

REVISION LOG

REVISION:001	DATE: 7/22/2022
1. ADD STEM WALL SLAB FOUNDATION SHEETS. 2. ADD "STEM WALL" TO CRAWL ELEVATION TITLES AND ADD NOTE "SEE FOUNDATION PAGES FOR FOUNDATION TYPE". UPDATE SHEET TITLES 3. ADD ELECTRICAL PLANS	
REVISION:2	DATE: 9/14/2022
1. ADD OPT OWNER'S SUITE W/ LARGER WALK-IN CLOSET. UPDATE ELEVATIONS, FLOOR PLANS AND FOUNDATION SHEETS. 2. ADD 2ND ACCESS TO STORAGE @ GAMEROOM. 3. ADD OPTIONAL 2440 WINDOW IN OWNER'S BATH @ OPT OWNER'S SUITE W/ SITTING ROOM.	
REVISION:3	DATE: 8/16/2023
1. CHANGED NAME OF FLEX ROOM TO POCKET OFFICE	

Lot 128 DC
345 Duncan Creek Rd., Lillington, NC 27546

Trademark Plus



10-9-23 - Initial Redlines

PLAN 1
The Clayton - LH

'LOW COUNTRY' ELEVATION



DESIGN CRITERIA:

THIS PLAN IS TO BE BUILT IN CONFORMANCE WITH THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE
 DIMENSIONS SHALL GOVERN OVER SCALE. AND CODE SHALL GOVERN OVER DIMENSIONS.

ARCHITECTURAL DRAWINGS

Sheet No.	Sheet Description
0.0	Cover Sheet
1.1	Foundation (Slab)
1.1.1	Foundation Options (Slab)
1.2	Foundation (Crawl)
1.2.1	Foundation Options (Crawl)
1.3	Foundation (Stem Wall Slab)
1.3.1	Foundation Options (Stem Wall Slab)
2.1	First Floor Plan
2.1.1	First Floor Plan Options
2.1.2	First Floor Plan Options
2.2	Optional Second Floor Plan
2.2.1	Second Floor Plan Options
2.4	Covered Porch Plans & Elevations (Slab)
2.4.1	Covered Porch Plans & Elevations (Crawl/ Stem Wall)
2.5	Extended Covered Porch Plans & Elevations (Slab)
2.5.1	Extended Covered Porch Plans & Elevations (Crawl/ Stem Wall)
3.1	Front & Rear Elevations (Slab)
3.1.1	Front & Rear Elevations (Crawl/ Stem Wall)
3.2	Side Elevations (Slab)
3.2.1	Side Elevations (Crawl/ Stem Wall)
3.3	Side Load Garage Elevations (Slab)
3.3.1	Side Load Garage Elevations (Crawl/Stem Wall)
3.4	Side Load Garage Elevations (Crawl/Stem Wall)
5.1	First Floor Electrical Plan
5.1.1	First Floor Options Electrical Plan
5.1.2	Alternate First Floor Electrical Plan
5.2	Optional Second Floor Electrical Plan

SQUARE FOOTAGE

	LOW COUNTRY	
	UNHEATED	HEATED
FIRST FLOOR	0	1871
FRONT PORCH	147	0
2 CAR GARAGE	468	0
PATIO DECK	196	0
SUBTOTALS	811	1871
TOTAL UNDER ROOF	2682	

	OPTIONS	
	UNHEATED S.F.	HEATED S.F.
SECOND FLOOR	0	803
COVERED PORCH	196	0
EXTENDED COVERED PORCH	+65	0
SMART DOOR	-25	+25

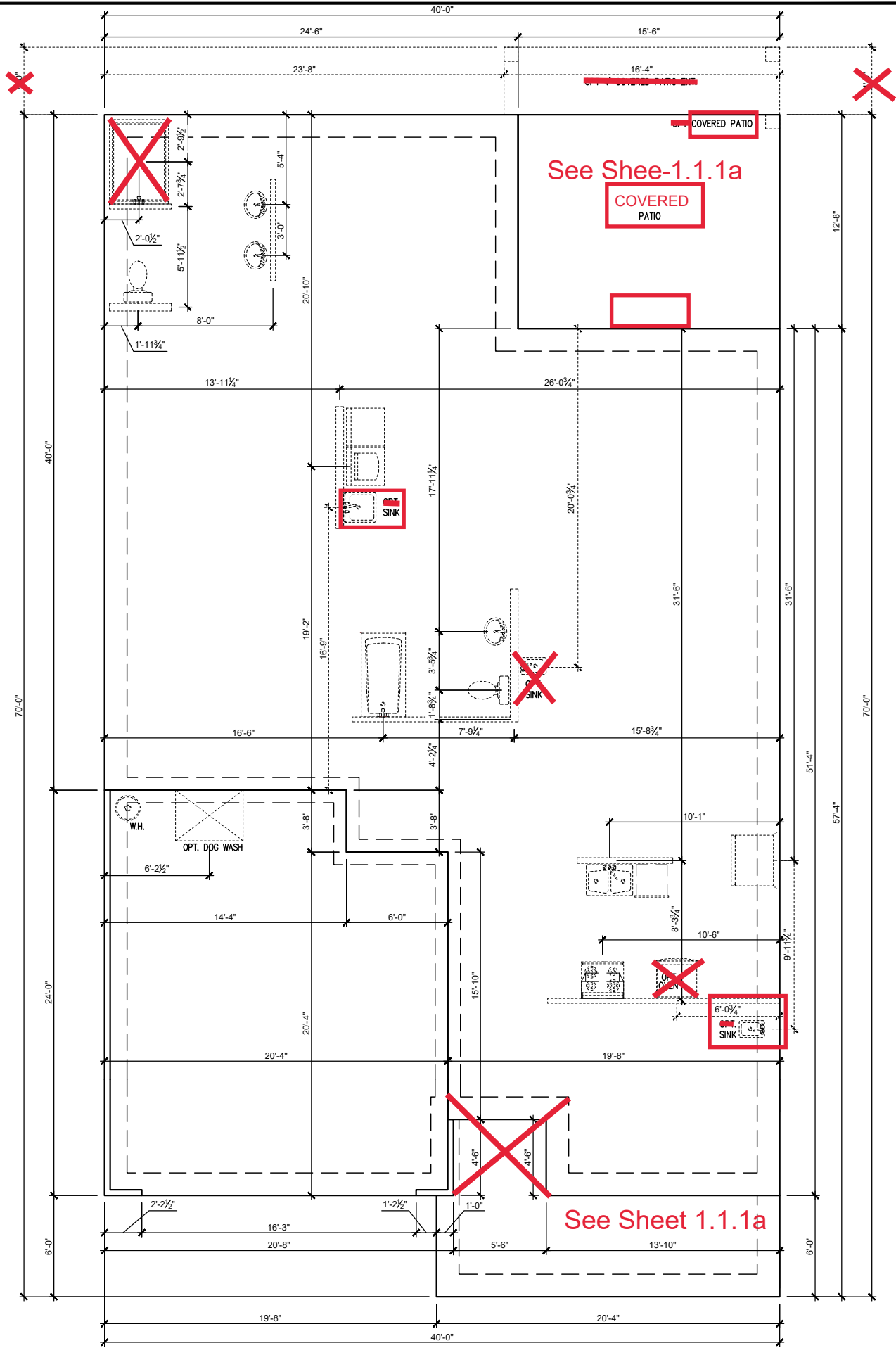
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PLAN 1 - THE CLAYTON - LH
 Cover Sheet 'Low Country'

DRAWN BY:
 South Designs
 ISSUE DATE:
 7/1/2021
 CURRENT REVISION DATE:

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

SHEET
0.0a



SLAB FOUNDATION PLAN 'LOW COUNTRY'
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

PLAN 1 - THE CLAYTON - LH

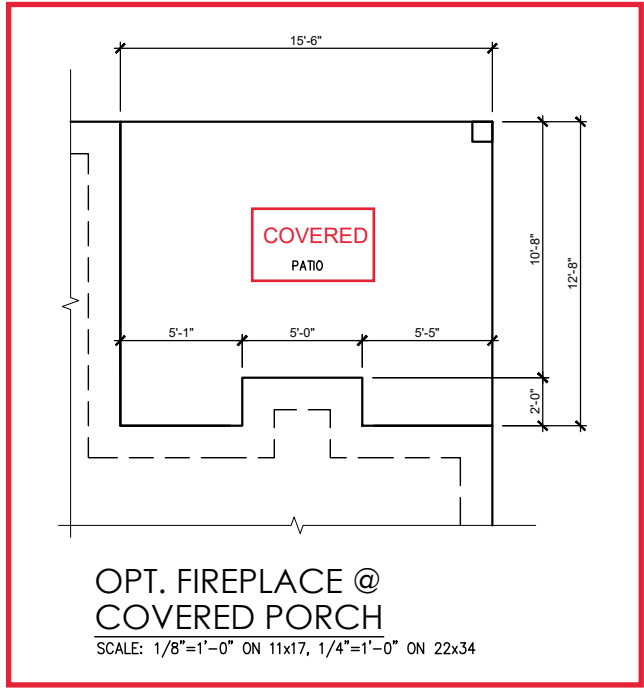
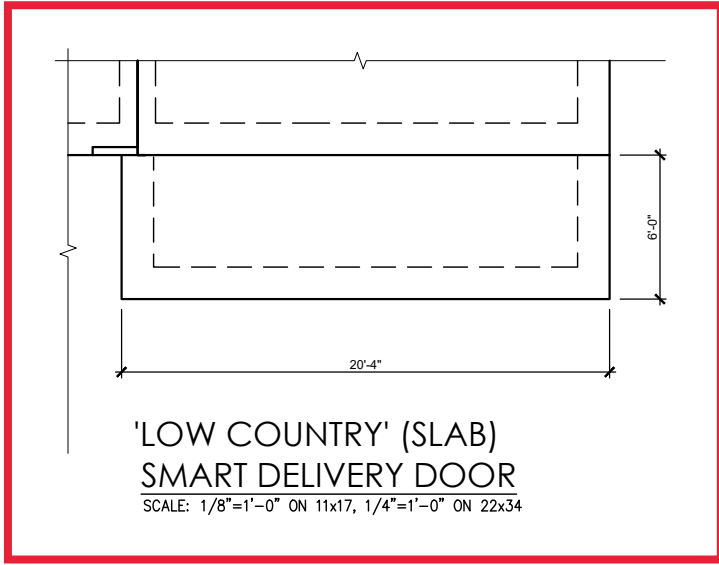
Slab Foundation 'Low Country'

DRAWN BY:
 South Designs
 ISSUE DATE:
 7/1/2021
 CURRENT REVISION DATE:

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

SHEET
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PLAN 1 - THE CLAYTON - LH

Slab Foundation Options 'Low Country'

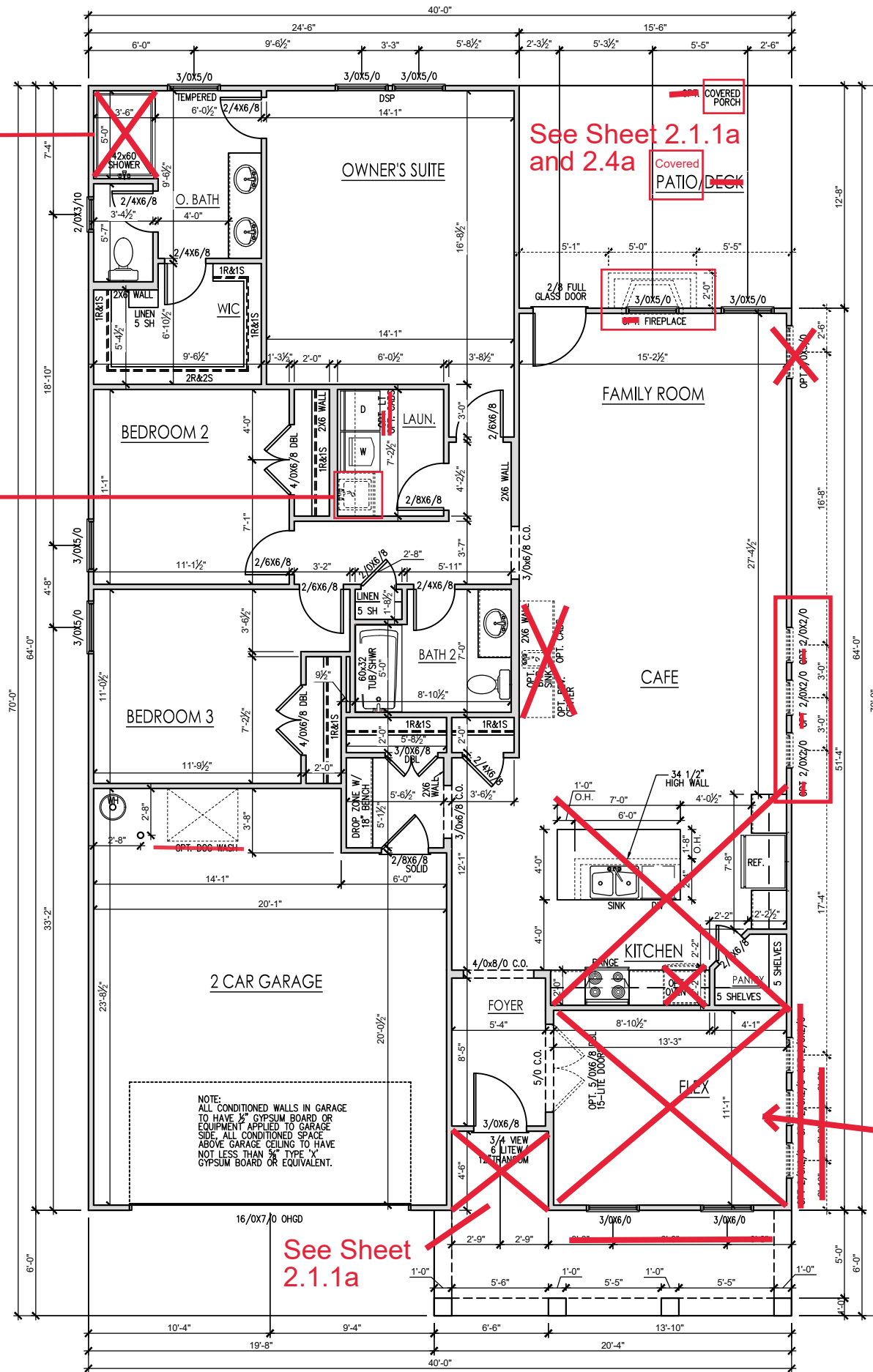
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South Designs
ISSUE DATE:
7/1/2021
CURRENT REVISION DATE:

SCALE:
1/8" = 1'-0"
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General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

1. Wall Heights: Typically 9'-1 1/2" at first floor and second floor, and 9'-1 1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. Wall Thickness is typically 3 1/2". 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. Typical header height shall be 7'-8" AFF at First Floor, and 7'-4" AFF at Second Floor U.N.O.
4. Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
5. Soffits, Coffered Ceilings, Trey Ceilings and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
6. Door & Window Frames, where occurring near corners, shall be a minimum of 4 1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
7. Windows: Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. False windows shall be installed with obscure glazing.
8. Closets for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 4 open equal shelves. Closets for pantries shall have 4 equal wood shelves, painted.
9. Stair treads shall be a min of 9" deep, risers shall be a maximum of 8 1/4", unless noted otherwise, per the current North Carolina Residential Code
10. Handrails and Guards of stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 36" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



FIRST FLOOR PLAN 'LOW COUNTRY'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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PLAN 1 - THE CLAYTON - LH
First Floor Plan 'Low Country'

DRAWN BY:
South Designs
ISSUE DATE:
7/1/2021
CURRENT REVISION DATE:

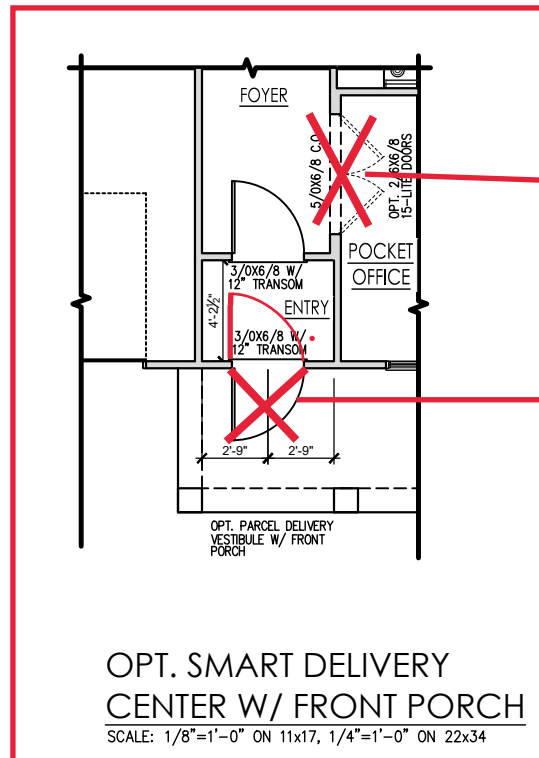
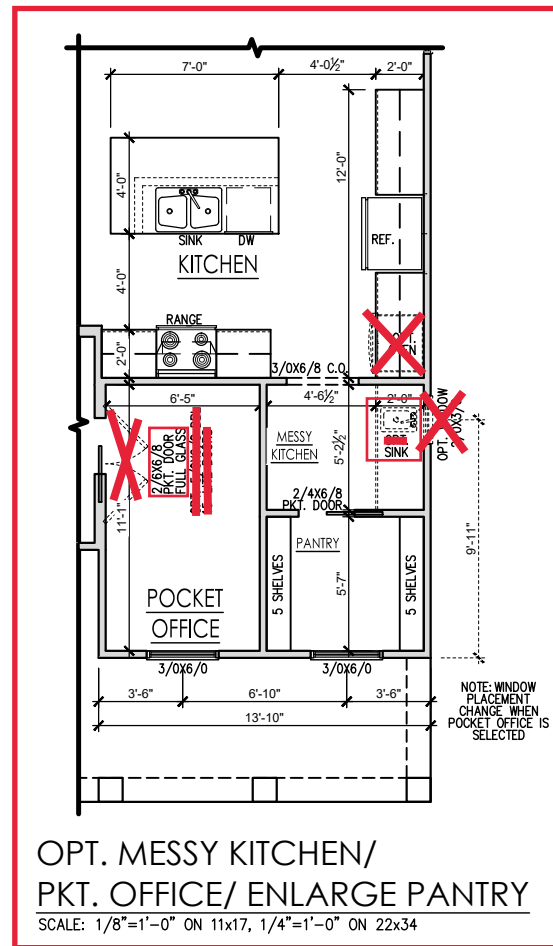
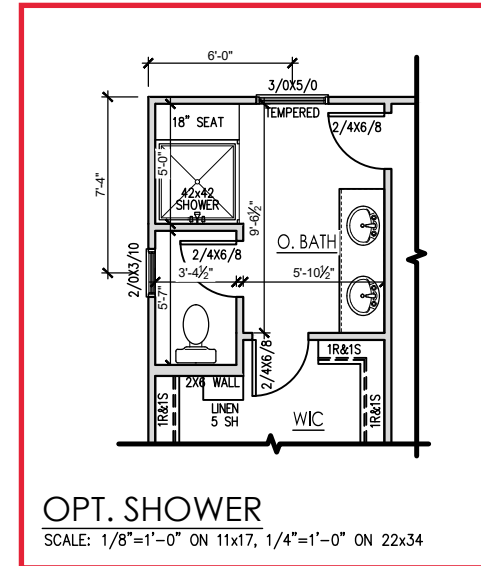
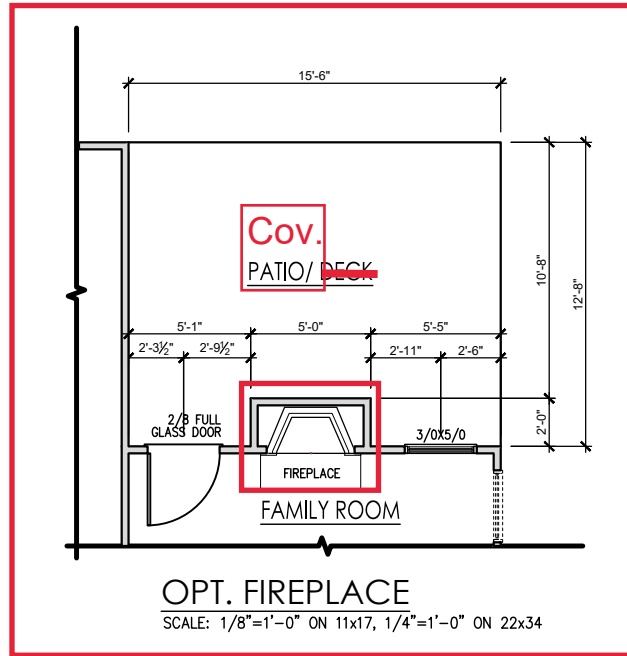
SCALE:
1/8" = 1'-0"

SHEET
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General Floor Plan Notes

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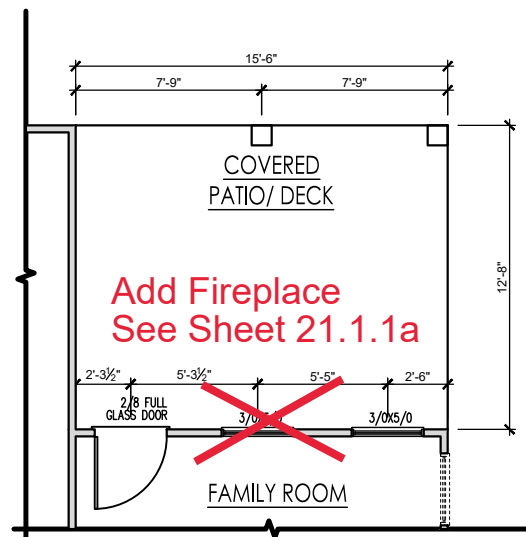
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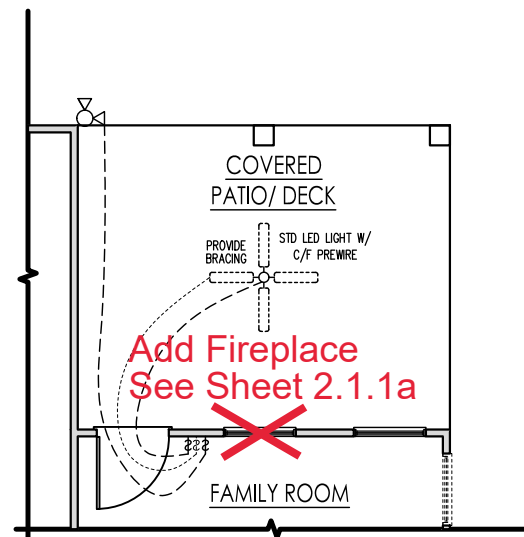
Full Glass Pocket Door

LH Inswing 3/0x6/8 w/ 12" Transom

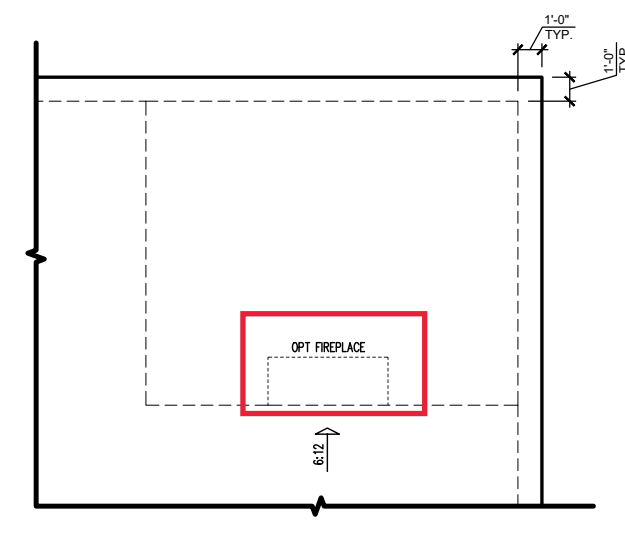
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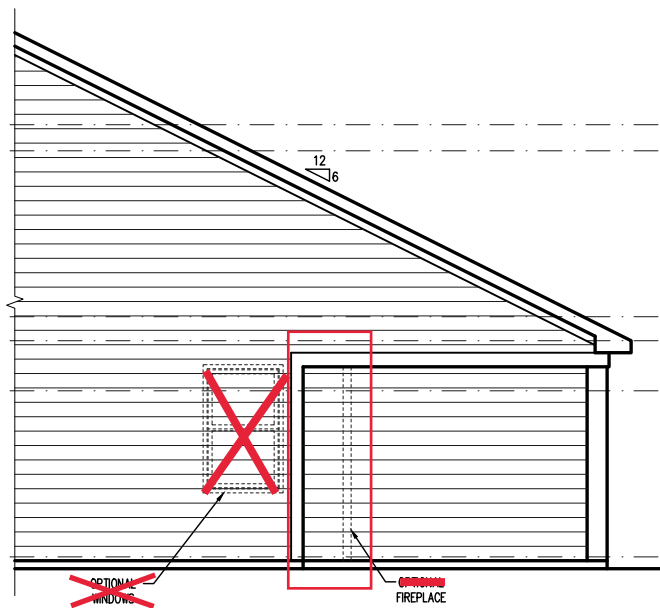
COVERED PORCH FLOOR PLAN
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



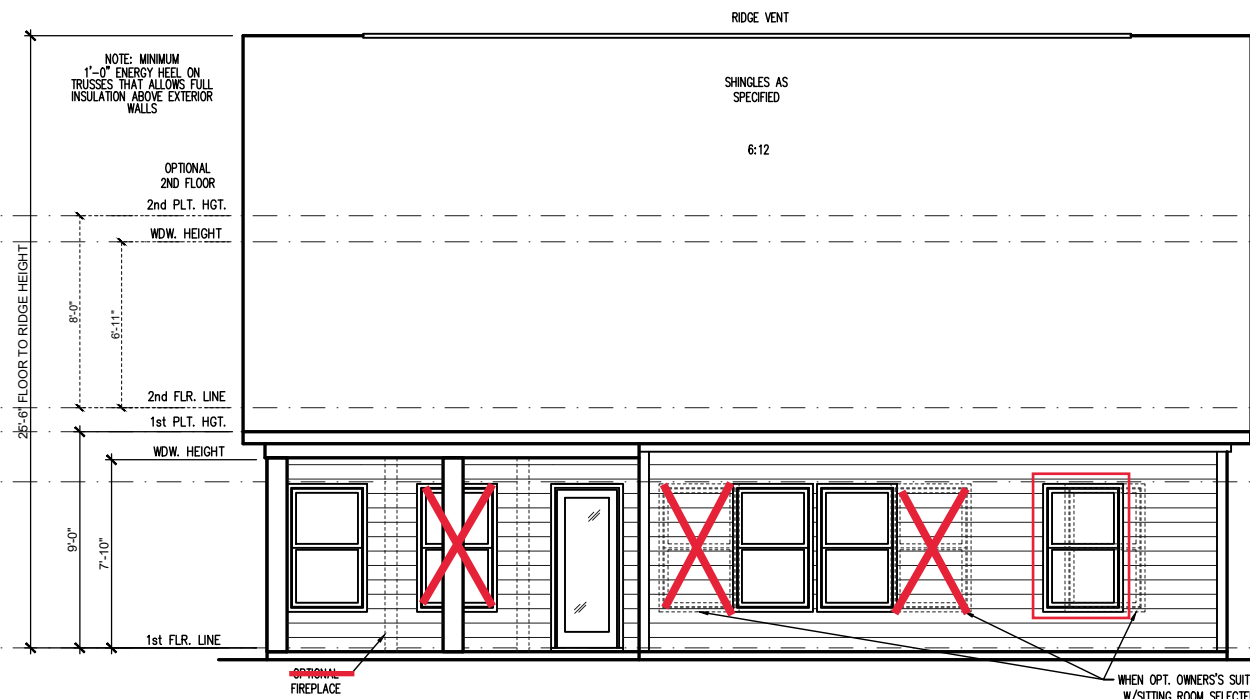
COVERED PORCH ELECTRICAL
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



COVERED PORCH ROOF PLAN
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



PARTIAL RIGHT SIDE ELEVATION (SLAB)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



COVERED PORCH REAR ELEVATION (SLAB)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

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PLAN 1 - THE CLAYTON - LH
Covered Porch Plans & Elevations (Slab) 'Low Country'

DRAWN BY:
South Designs

ISSUE DATE:
7/1/2021

CURRENT REVISION DATE:

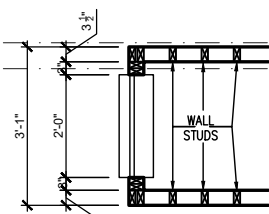
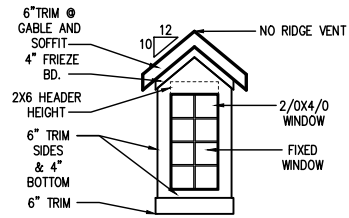
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1/8" = 1'-0"

SHEET
2.4a

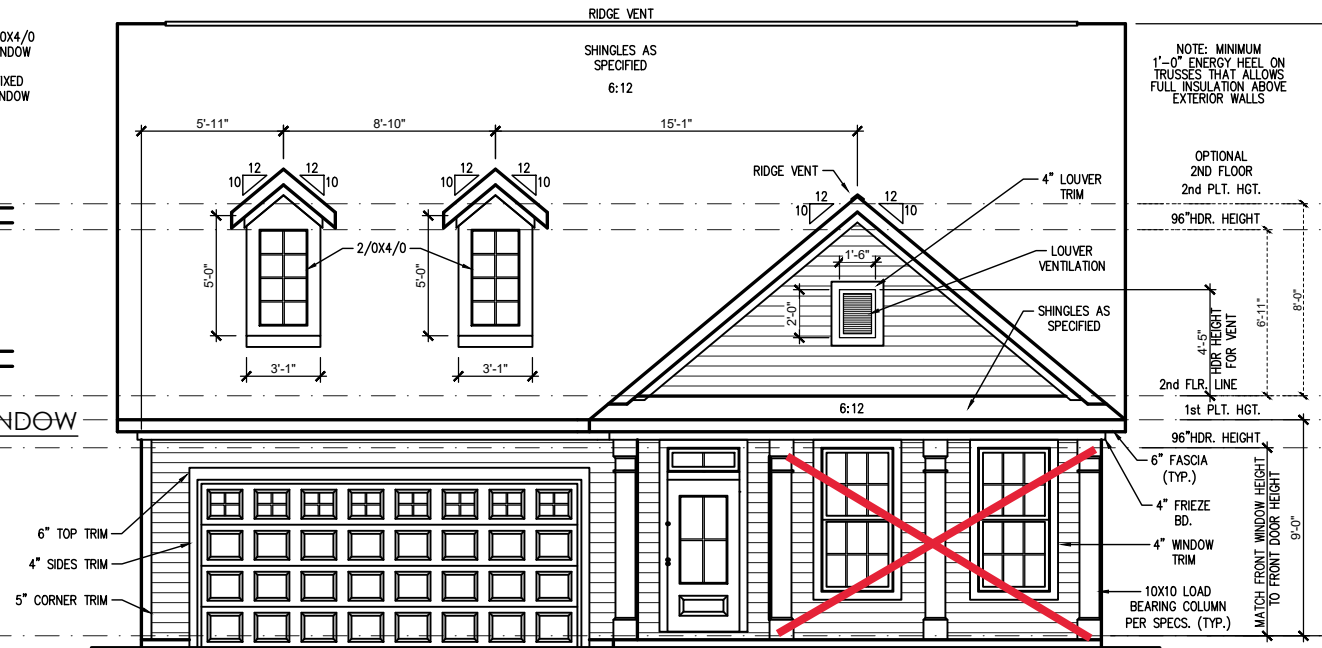
General Elevation Notes

General Elevation Notes shall apply unless noted otherwise on plan.

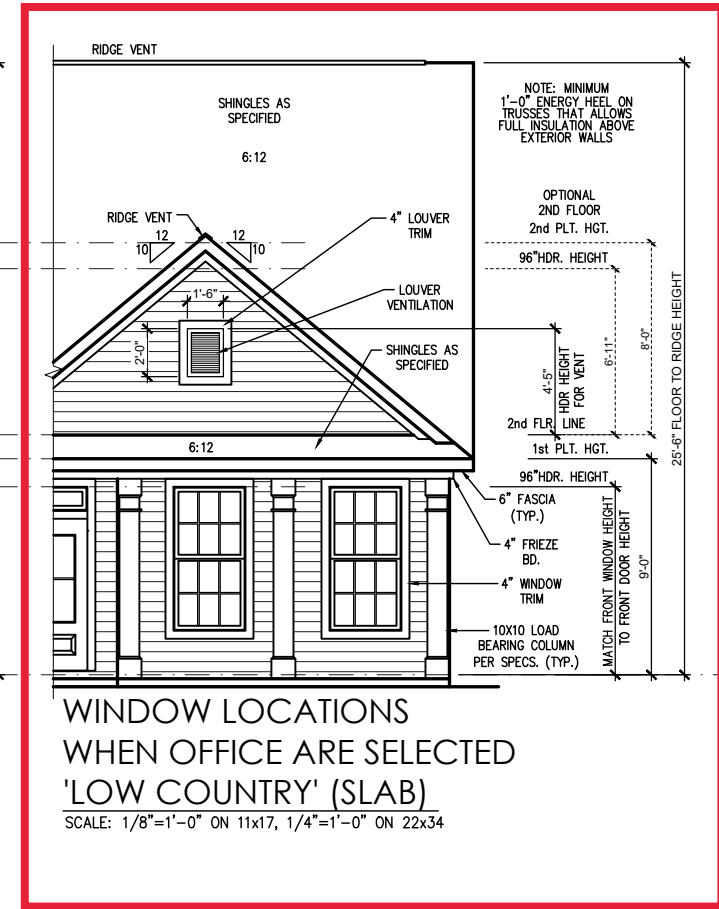
- Roof shall be finished with architectural composition shingles with slopes as noted on plan.
- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- Soffit Vent shall be continuous soffit vent
- House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations.
- Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
- Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
- Finish Wall Material shall be as noted on elevation drawings.
- Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
- Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. Lintels shall be provided as listed in the following schedule and shall have a minimum bearing length of 6". Masonry Lintels shall be provided so that deflection is limited to 1/600.



DETAIL DORMER WINDOW



FRONT ELEVATION 'LOW COUNTRY' (SLAB)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34



WINDOW LOCATIONS
WHEN OFFICE ARE SELECTED
'LOW COUNTRY' (SLAB)
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

Masonry Opening Lintel Schedule

Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV

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PLAN 1 - THE CLAYTON - LH
Front & Rear Elevations (Slab) 'Low Country'

DRAWN BY:
South Designs
ISSUE DATE:
7/1/2021
CURRENT REVISION DATE:

SCALE:
1/8" = 1'-0"
SHEET
3.1a

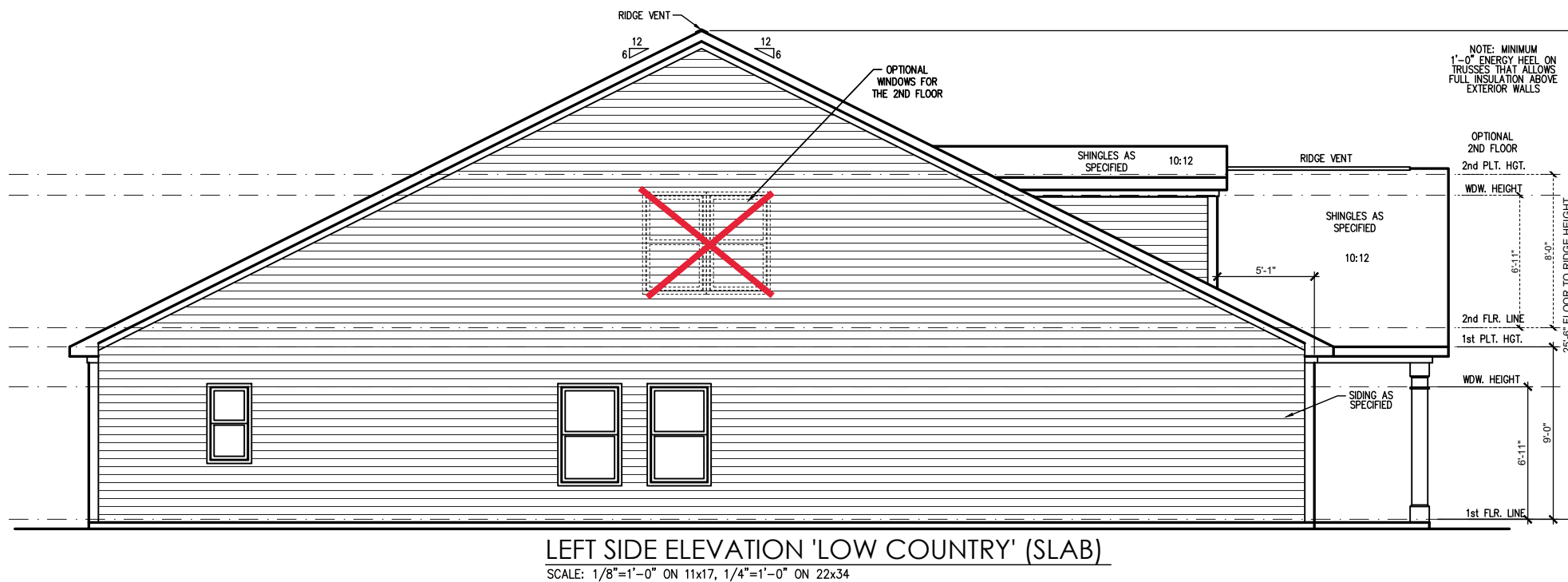
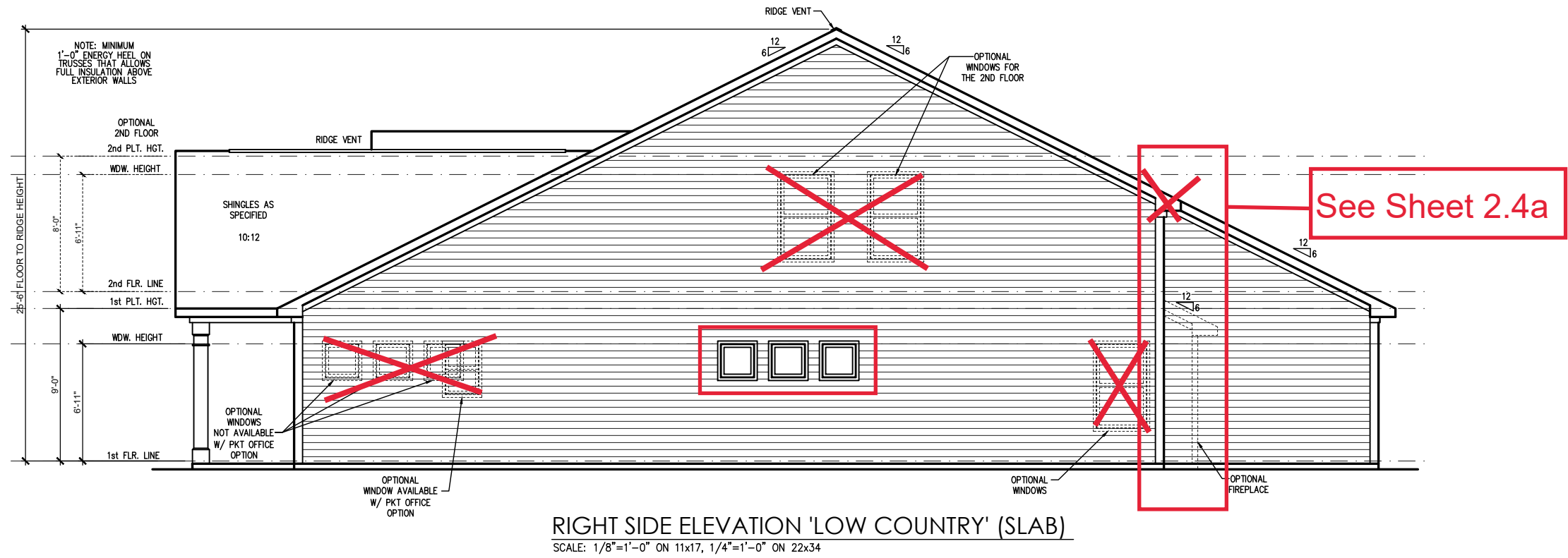
General Elevation Notes

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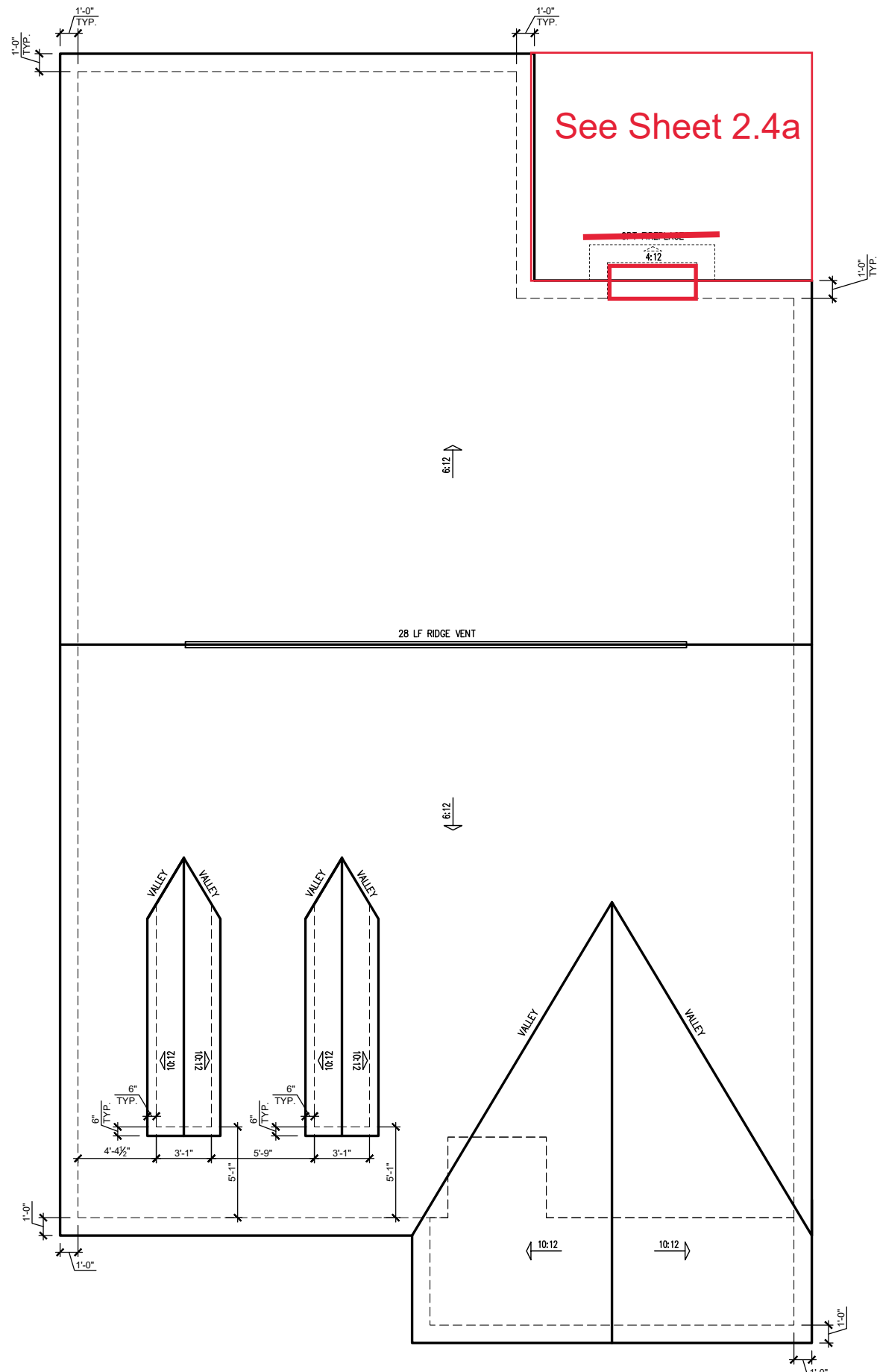
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- Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
- Soffit Vent shall be continuous soffit vent
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Masonry Opening Lintel Schedule

Opening Size	Angle
up to 4'-0"	3-1/2" x 3-1/2" x 5/16"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16" LLV
5'-7" to 6'-6"	5" x 3-1/2" x 5/16" LLV
6'-7" to 8'-4"	6" x 3-1/2" x 5/16" LLV
8'-5" to 16'-4"	7" x 4" x 3/8" LLV

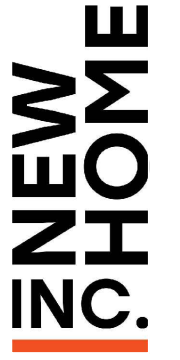


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ATTIC VENT SCHEDULE									
LOW COUNTRY									
MAIN HOUSE		SQ FTG		2486	AT / NEAR RIDGE			AT / NEAR EAVE	
VENT TYPE	SQ. FT. REQUIRED RANGE	SQ. FT. SUPPLIED	PERCENT OF TOTAL SUPPLIED	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)	
				0.4236	0.2778	0.125	0.1944	0.0625	
RIDGE VENT	3.31	4.14	7.50	70.59	0	0	60.00		
SOFFIT VENTS	4.97	4.14	3.13	29.41				0	50.00
TOTAL (MIN)	8.29	8.29	10.63	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE				

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION



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PLAN 1 - THE CLAYTON - LH
 Roof Plan 'Low Country'

DRAWN BY:
South Designs
 ISSUE DATE:
7/1/2021
 CURRENT REVISION DATE:

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

SHEET
3.4a

LOW COUNTRY ROOF PLAN
 SCALE: 1/4" = 1'-0" ON 22x34, 1/8" = 1'-0" ON 11x17

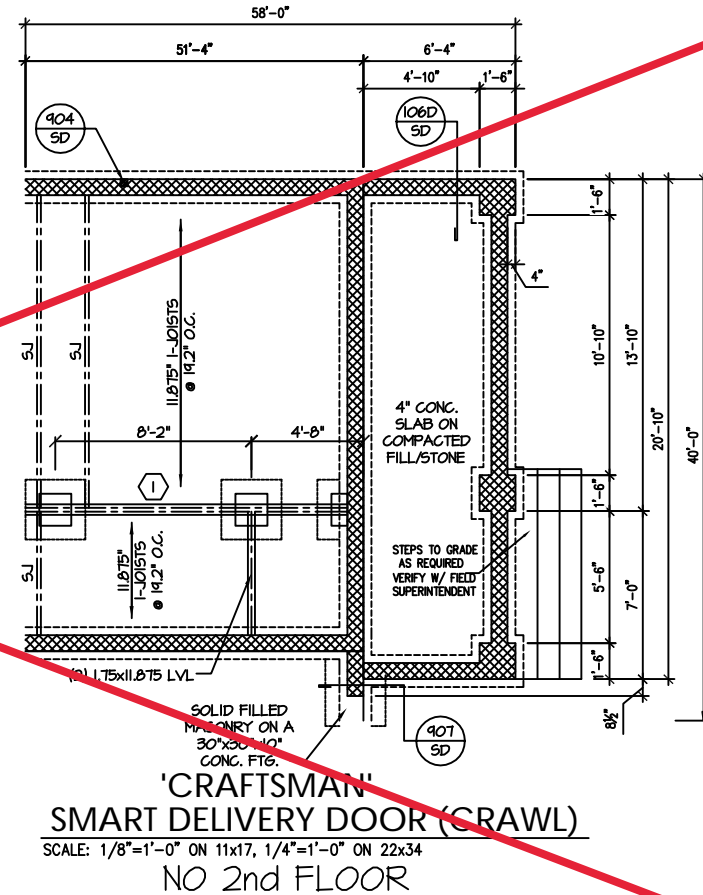
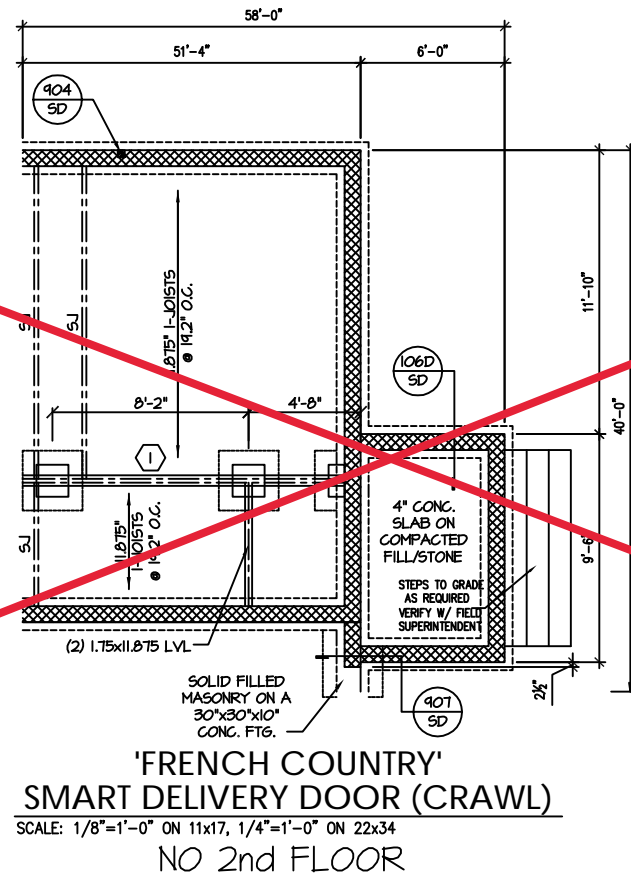
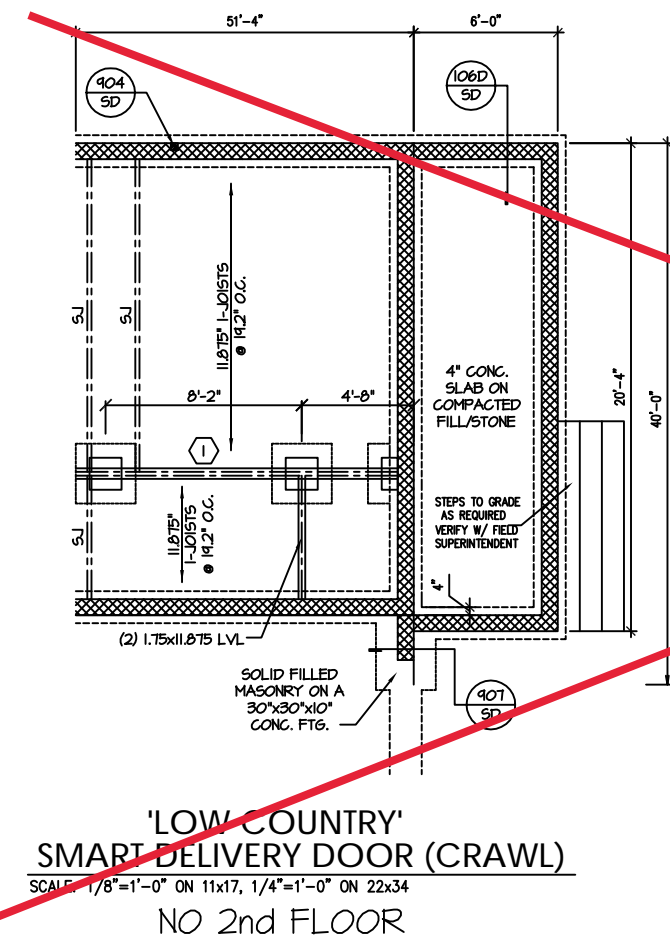
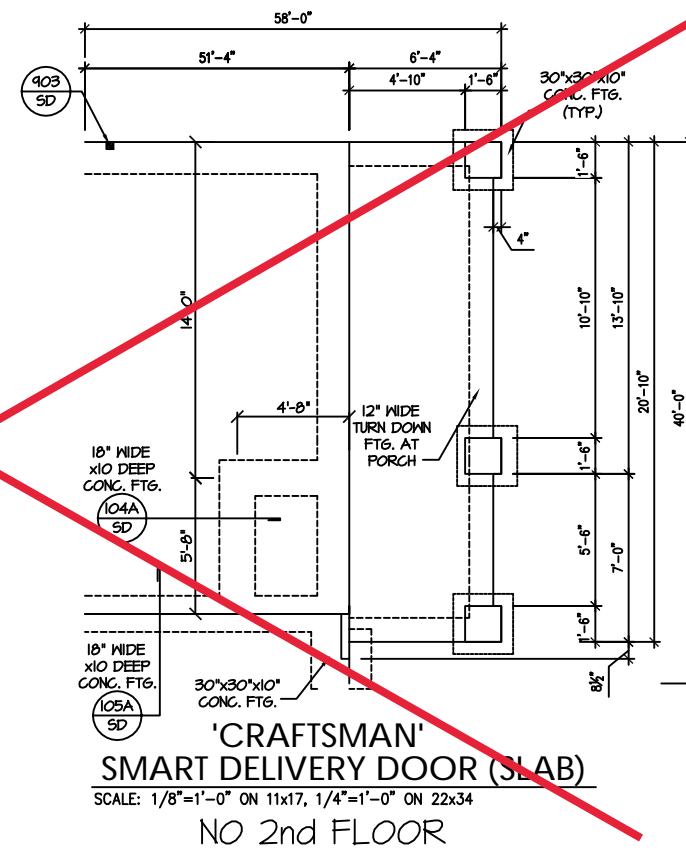
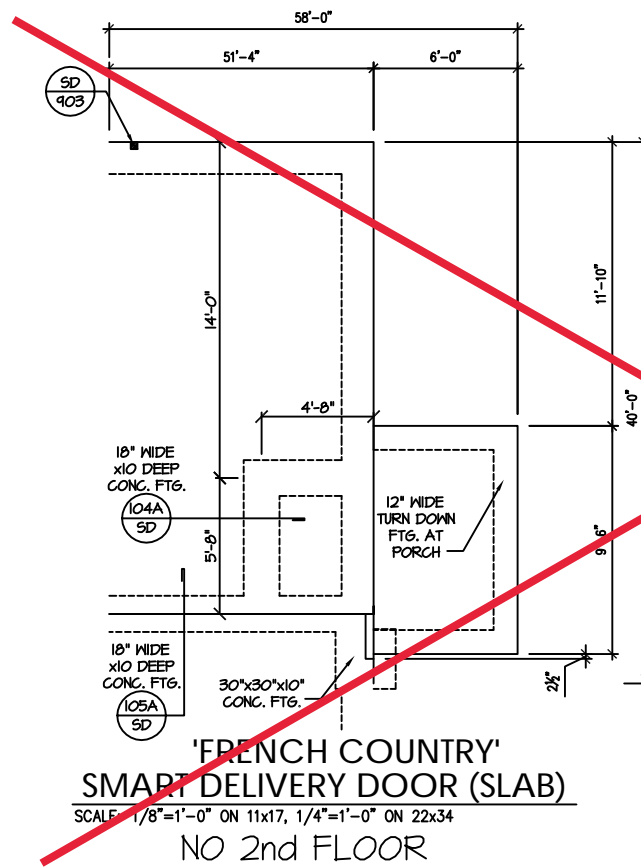
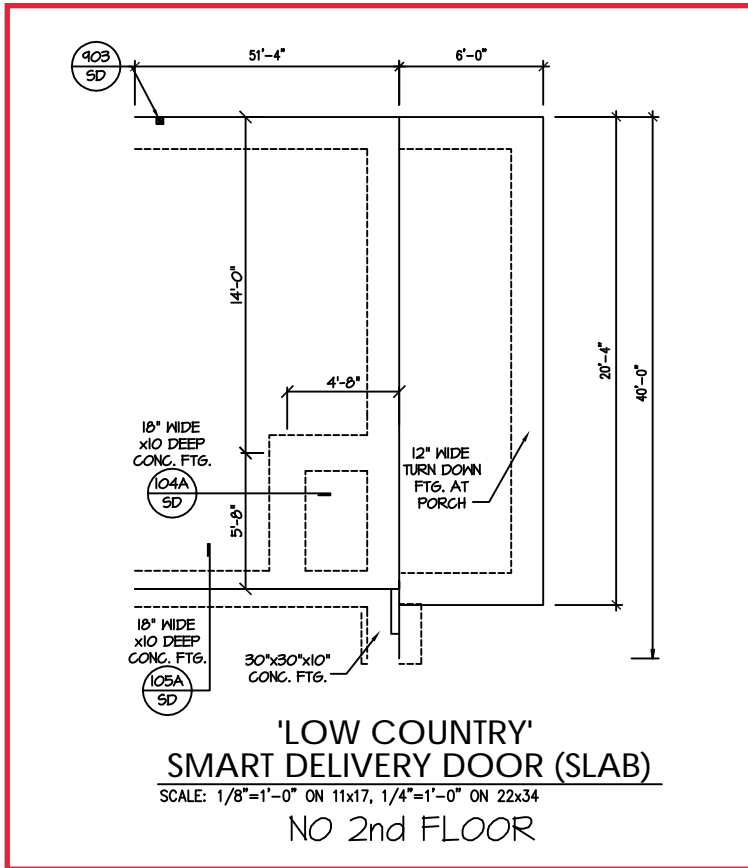
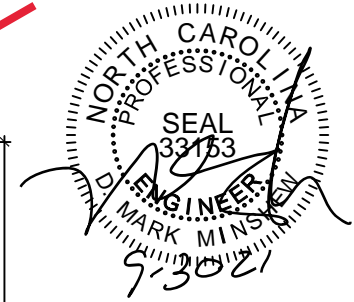
Engineers seal applies only to structural components on this document.
Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability.
Seal is valid for projects permitted one year from date of seal.
Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

Southern Engineers, P.A.
3716 Benson Drive, Raleigh, NC 27609
Phone: (919) 878-1617
License: C-4772
www.southernengineers.com

AJ DESIGNS

Plan 01
Garage Left
NEW HOME, INC.

S-1.4



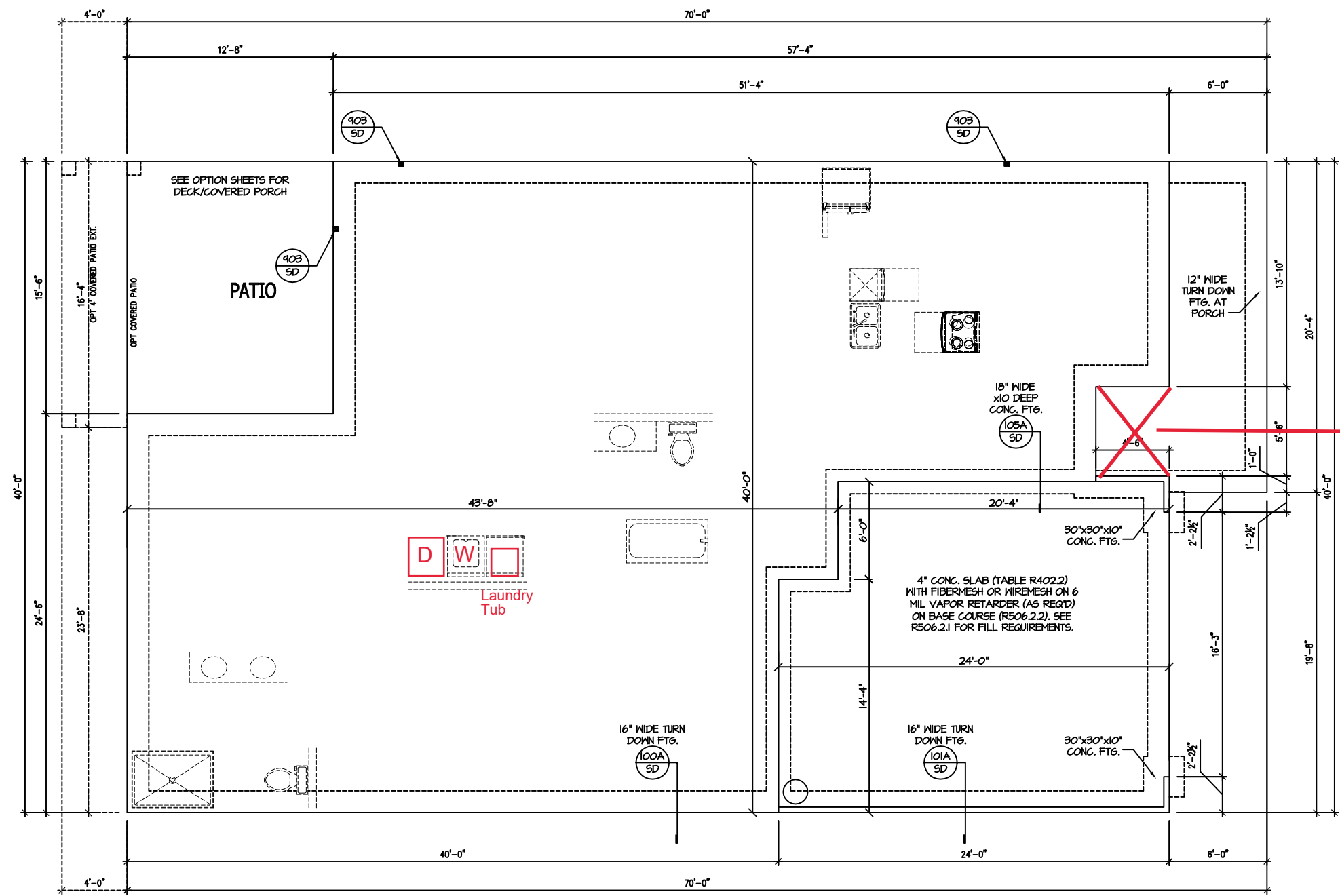


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Southern Engineers, P.A.
3716 Benson Drive, Raleigh, NC 27609
Phone: (919) 878-1617
License: C-4772
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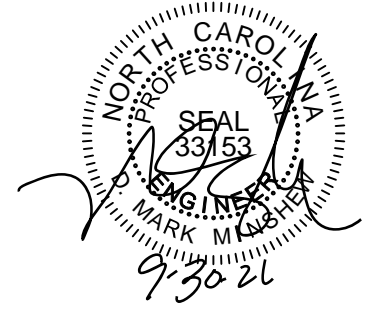
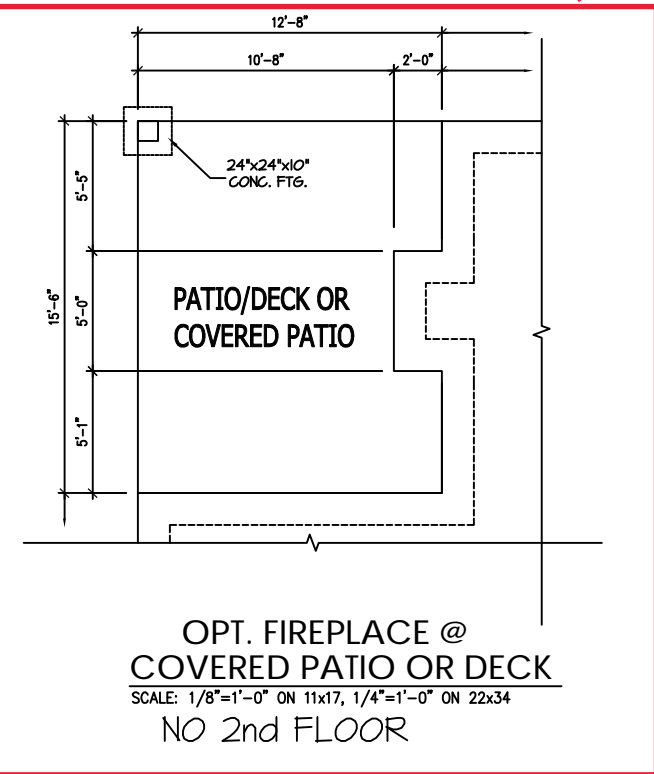
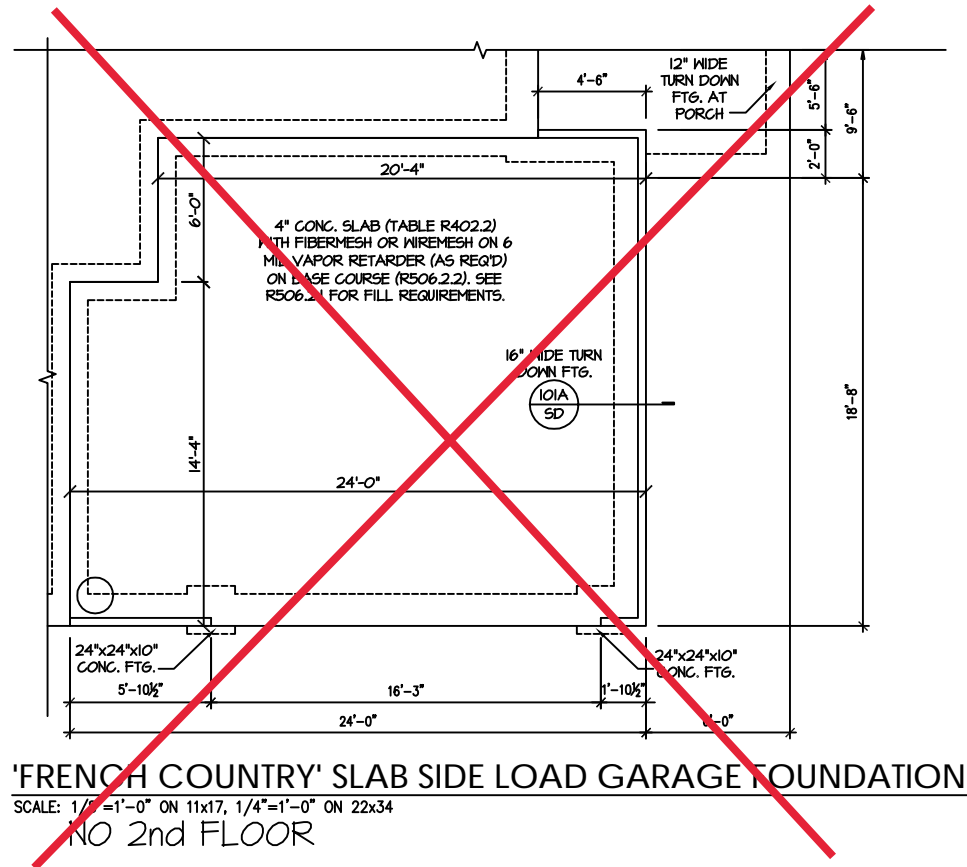
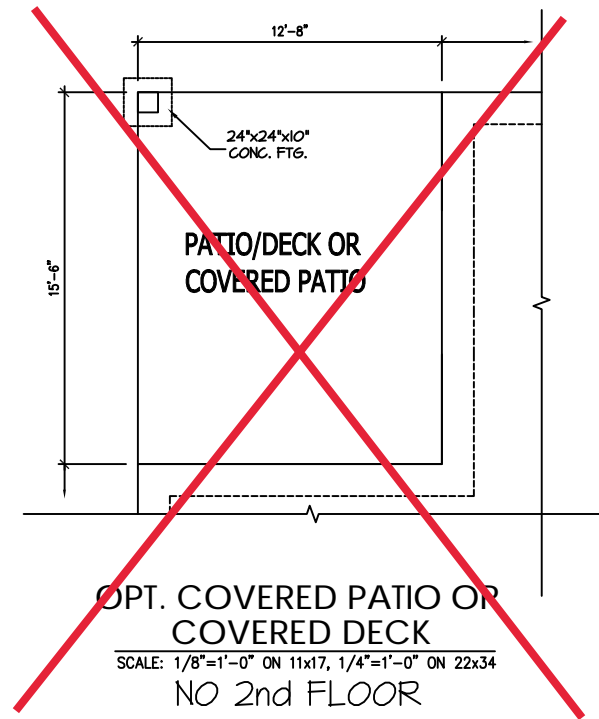
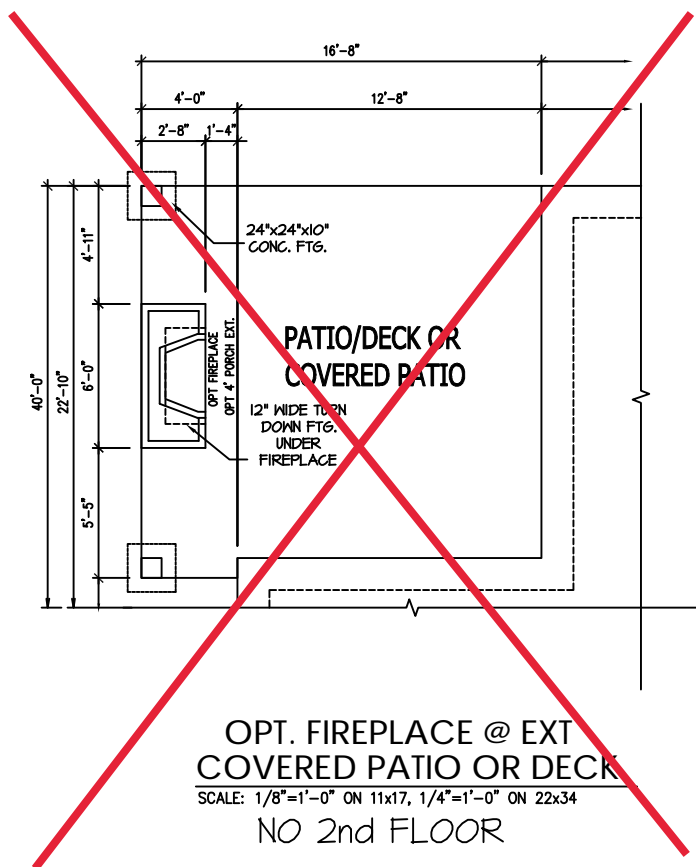
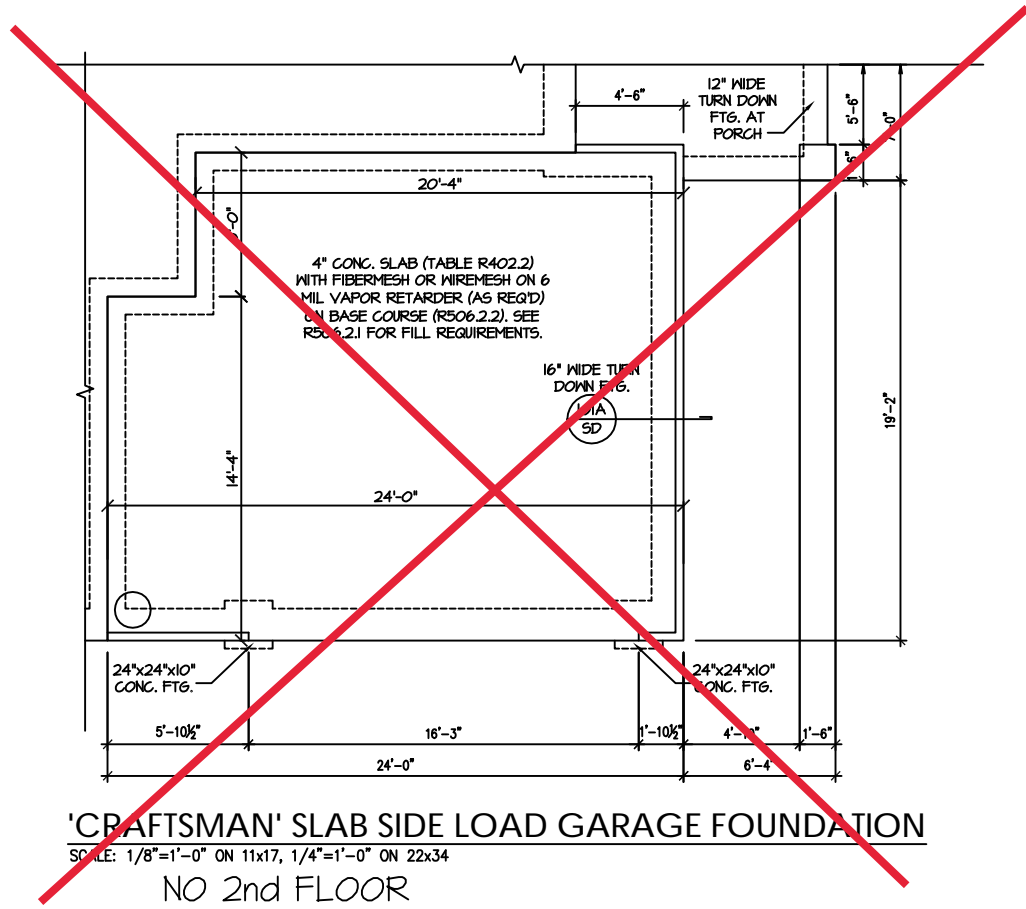
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See Sheet S-1.4

'LOW COUNTRY' BASE SLAB FOUNDATION
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
NO 2nd FLOOR



PROJECT #
 21-2967-GL

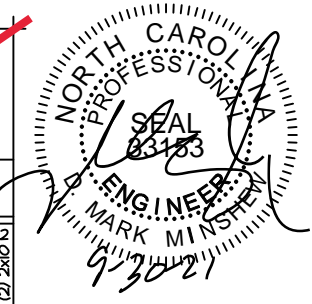
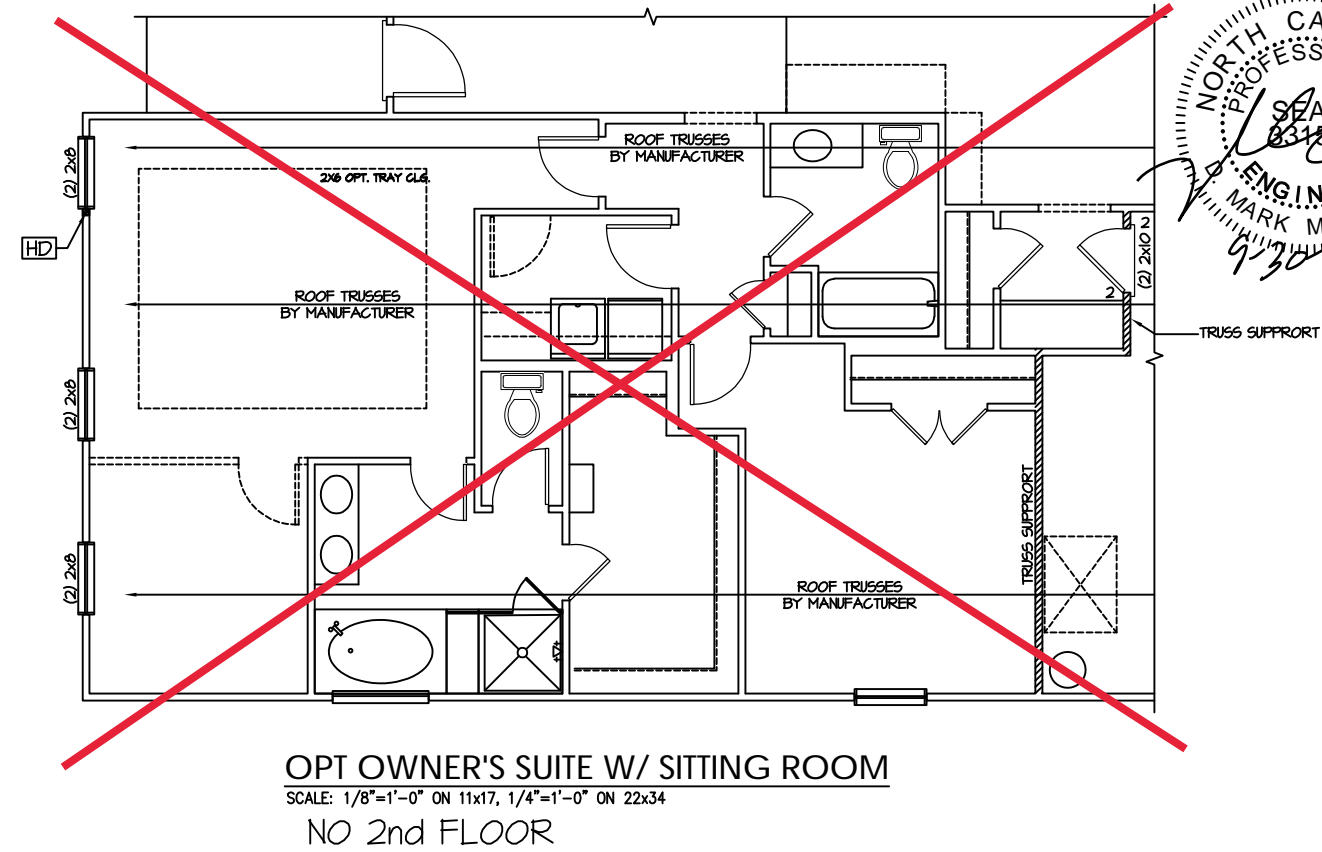
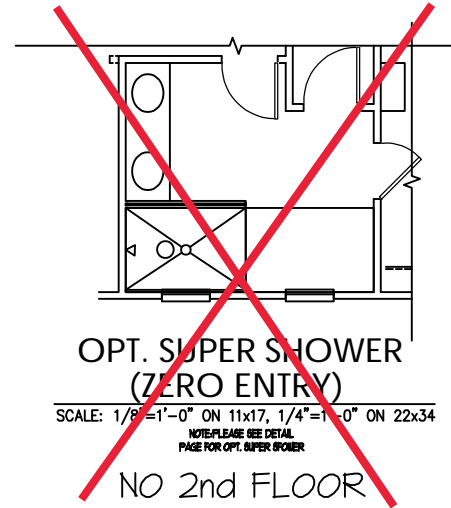
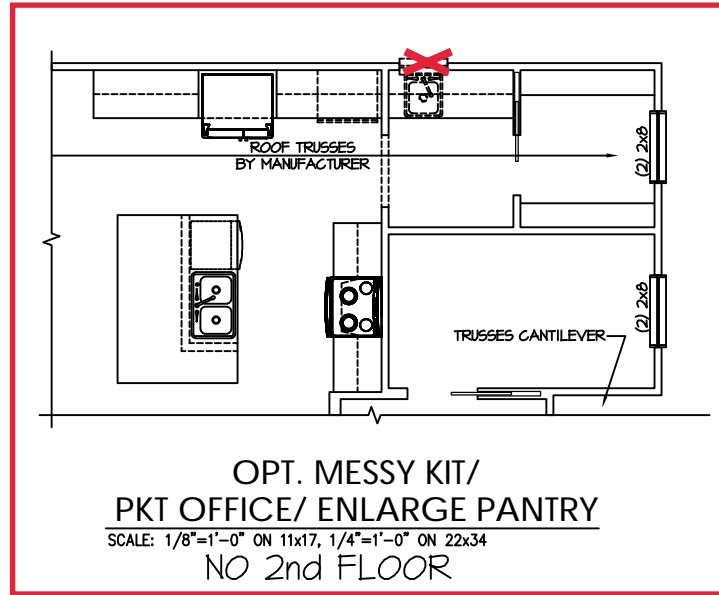
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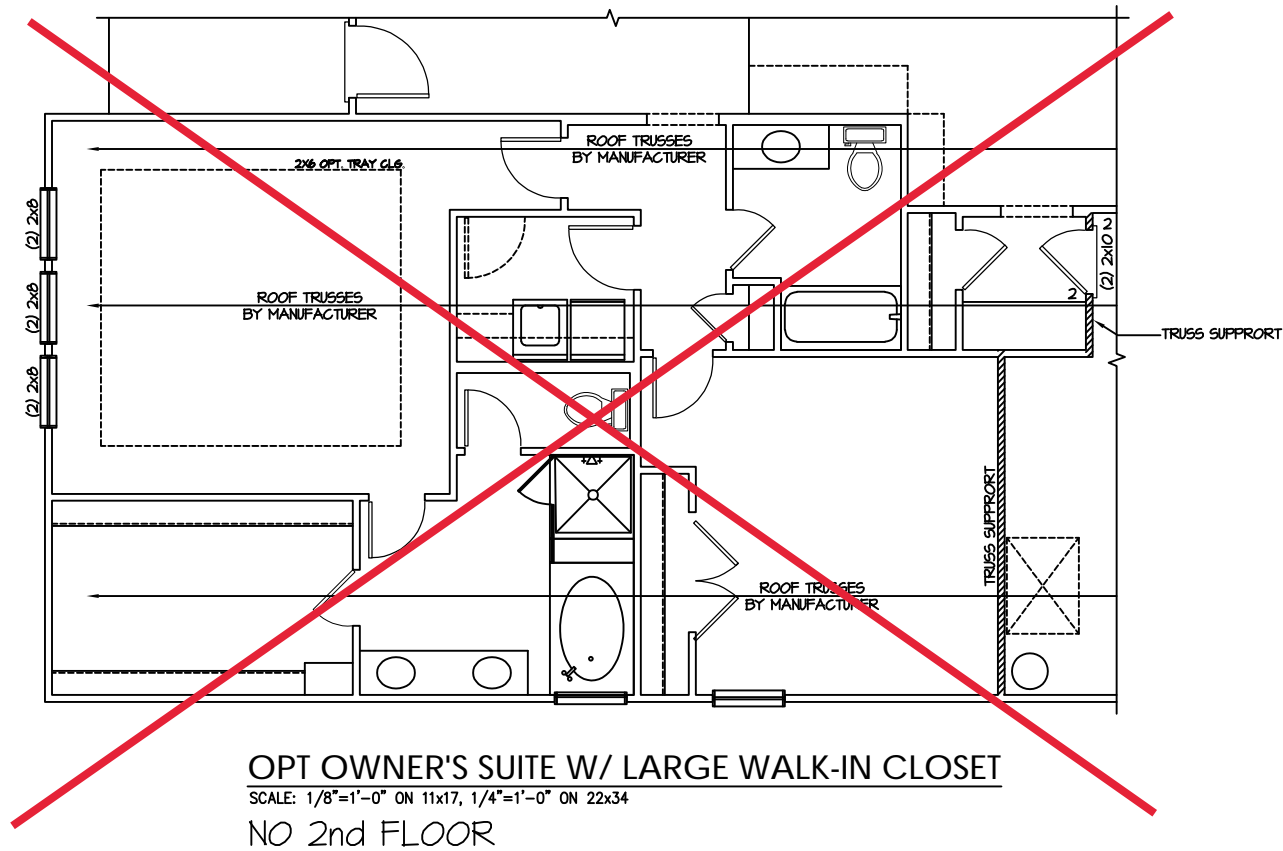
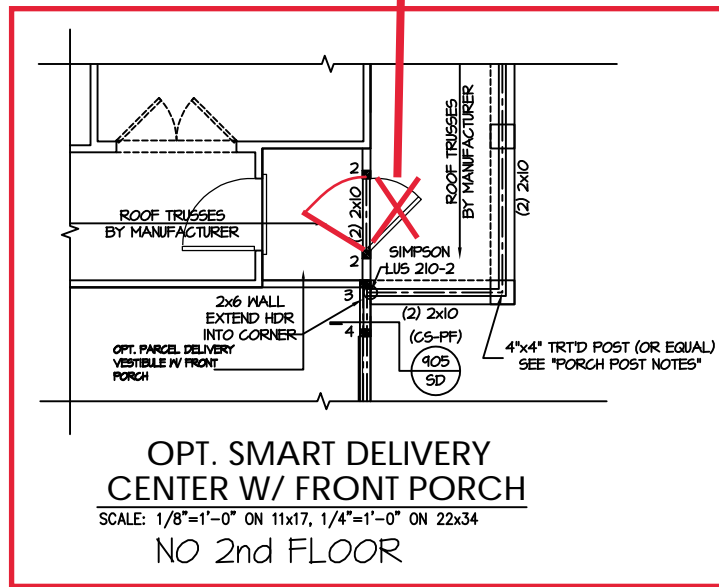
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S-2.3



Inswing Door



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21-2967-GL

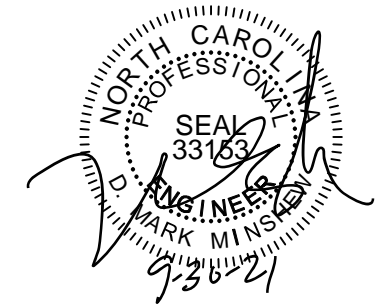
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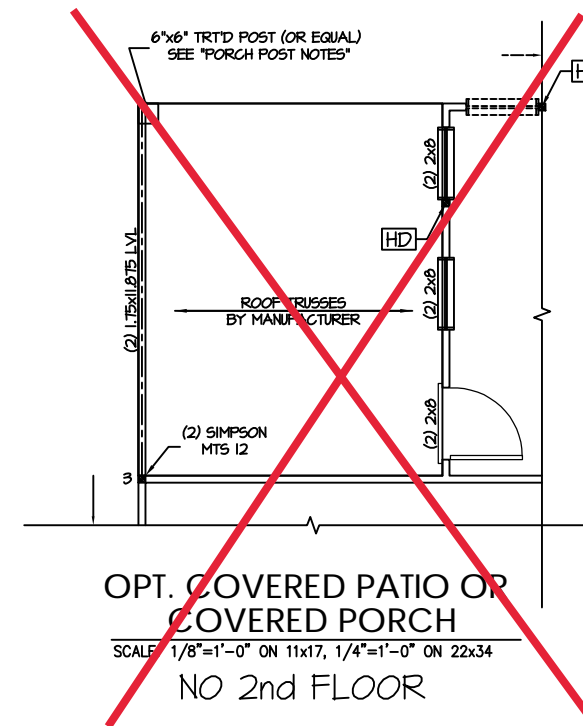
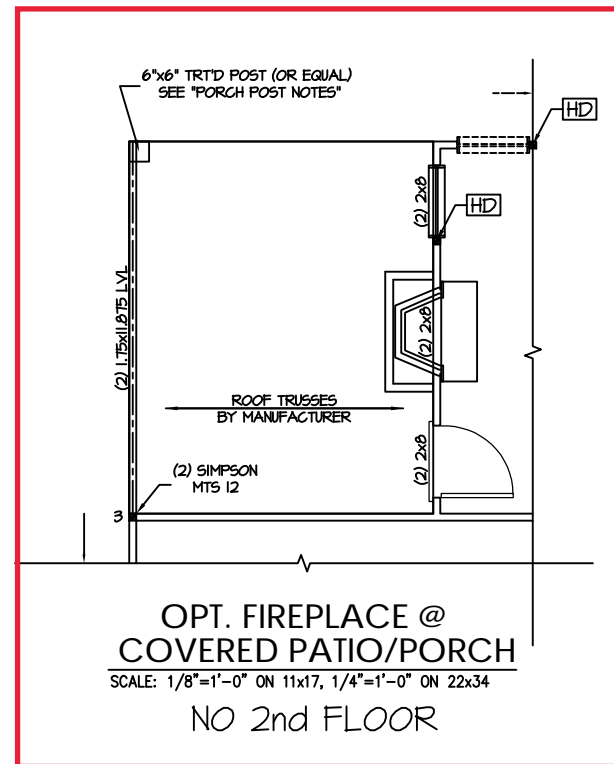
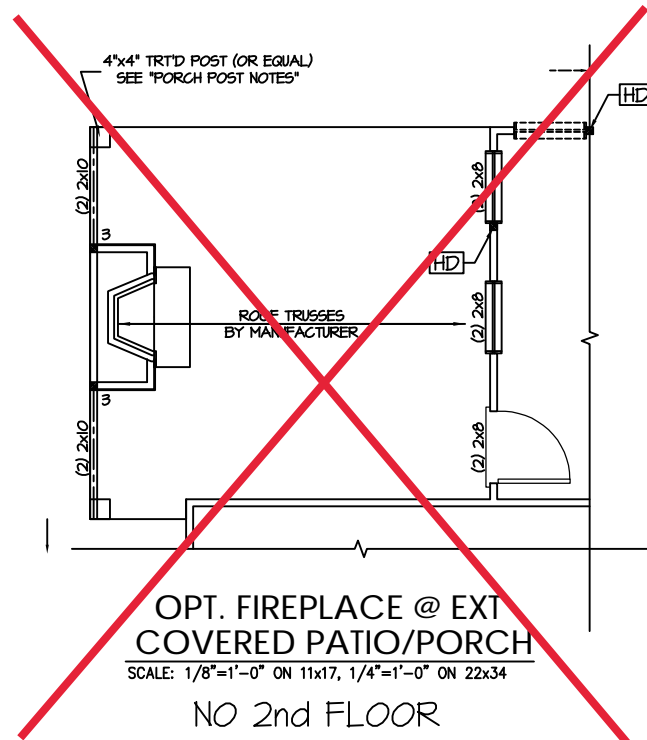
S-3.2



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PORCH POST NOTES:

- 4"x4" (6"x6") TRTD POST (OR EQUAL).
- ATTACH TRUSSES (RAFTERS) AT PORCH WITH HURRICANE CONNECTORS.
- 1. **POST CAP:** SIMPSON AC4-MAX (AC6-MAX)
- 2. **POST CAP AT CORNER:** (2) SIMPSON LCE4 (MITER HEADER AT CORNER). HIGH WIND; ADD (1) SIMPSON H6.
- 3. **POST BASE:** SIMPSON ABU44 (ABU66).
 - 3.1. **MONO:** 3/8" ANCHOR (EMBED 7")
 - 3.2. **CMU:** 3/8" 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.
- **NOTE:** EQUIVALENT POST CAP AND BASE ACCEPTABLE.

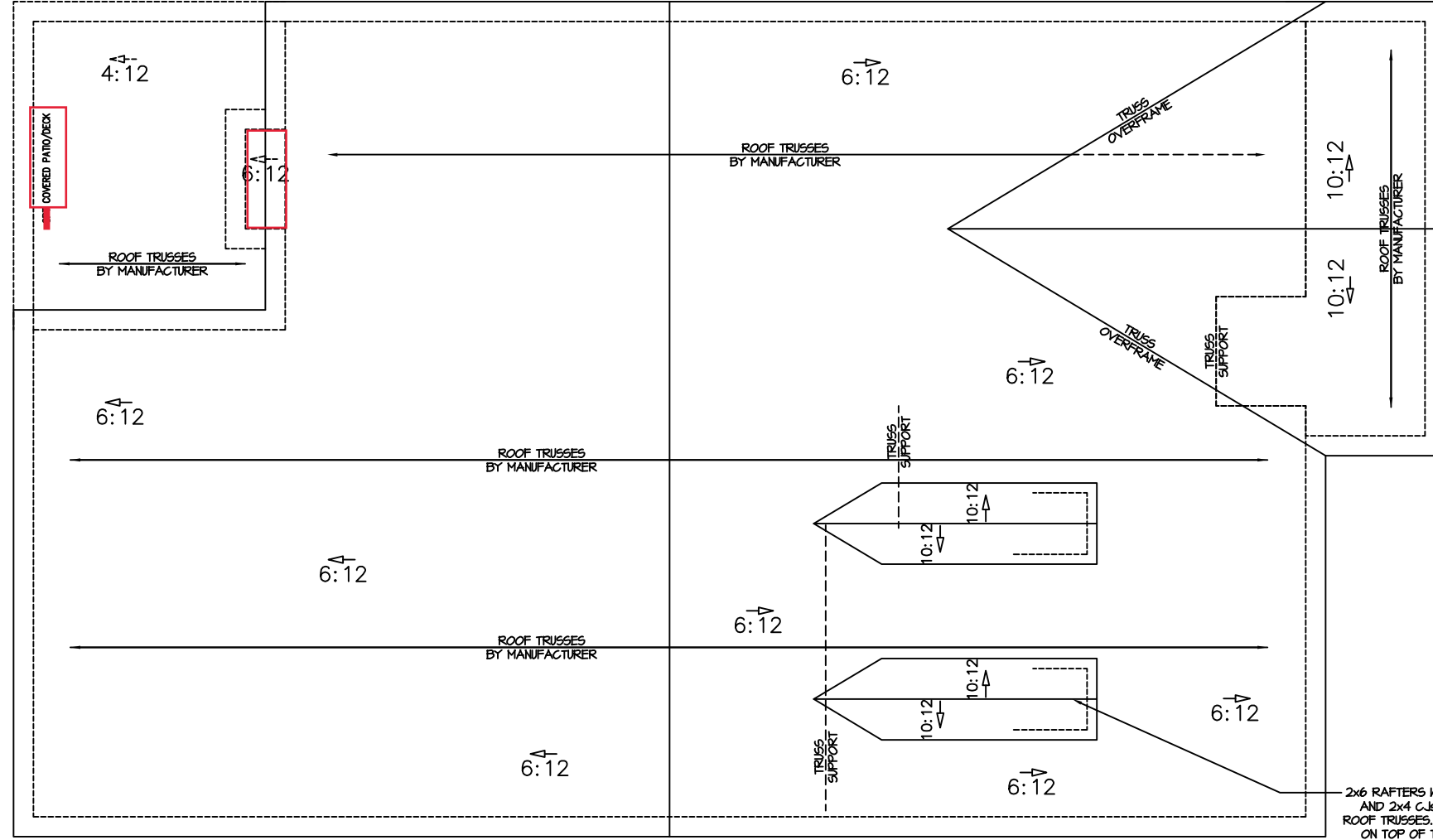
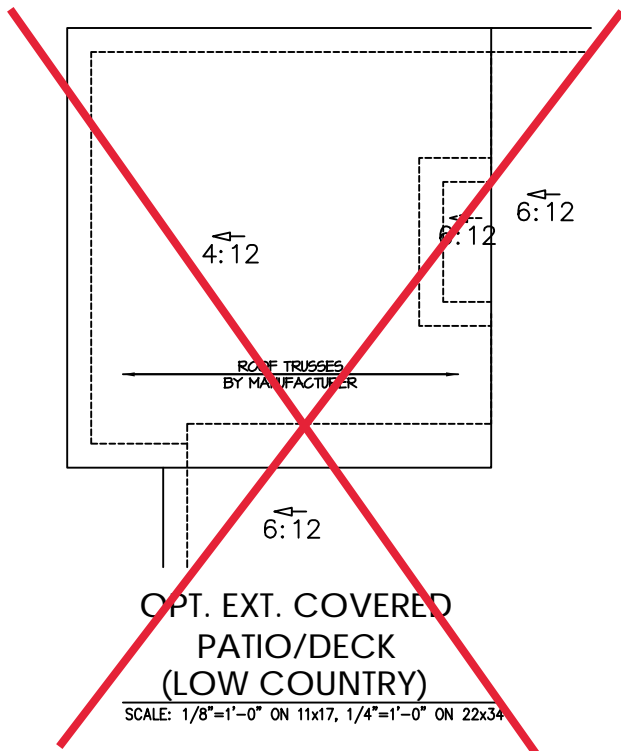


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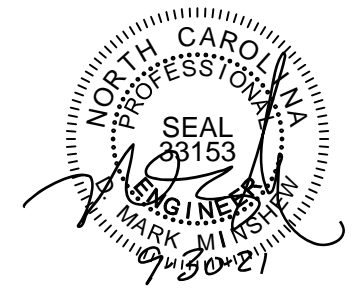
S-3.5



'LOW COUNTRY' ROOF FRAMING PLAN
 SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34
 NO 2nd FLOOR

TRUSS SYSTEM REQUIREMENTS

- NC (2018 NCRG); Wind: 115-120 mph
1. 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.



PROJECT #
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S-4.1

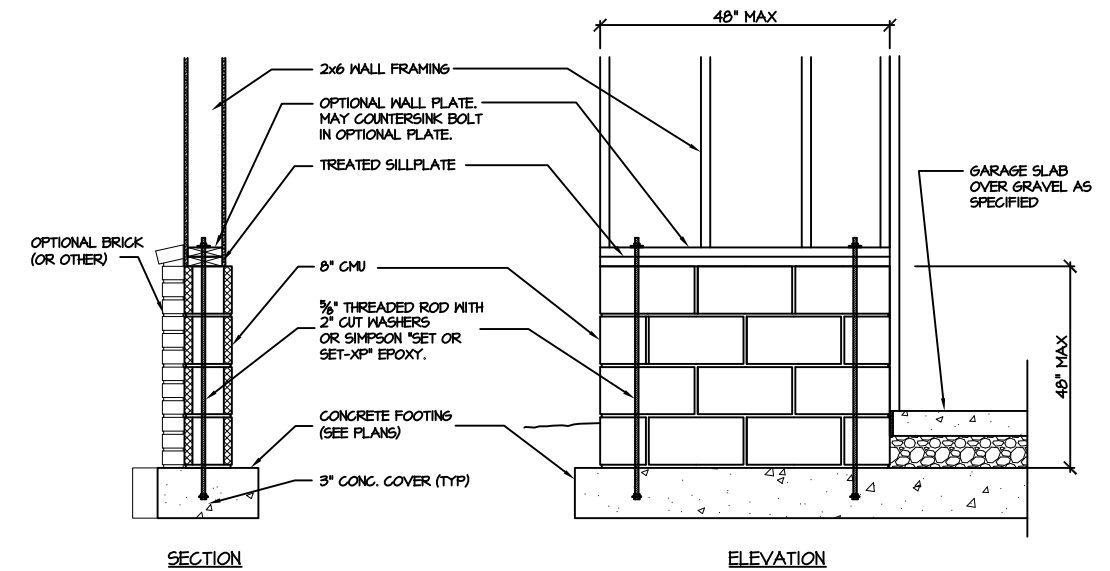
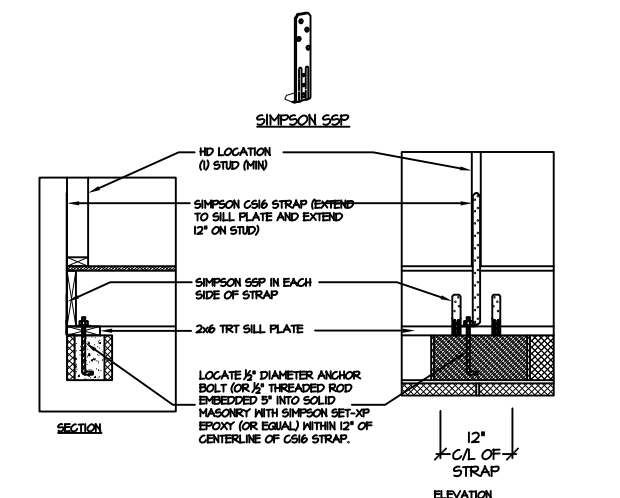
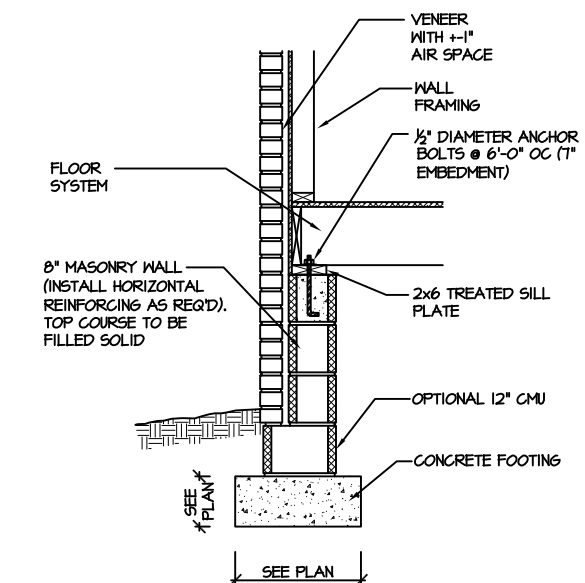
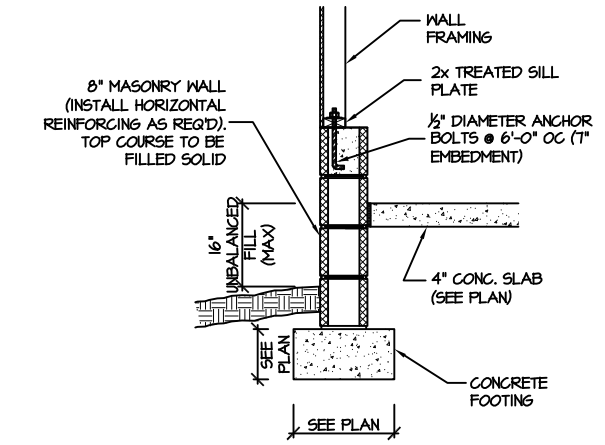
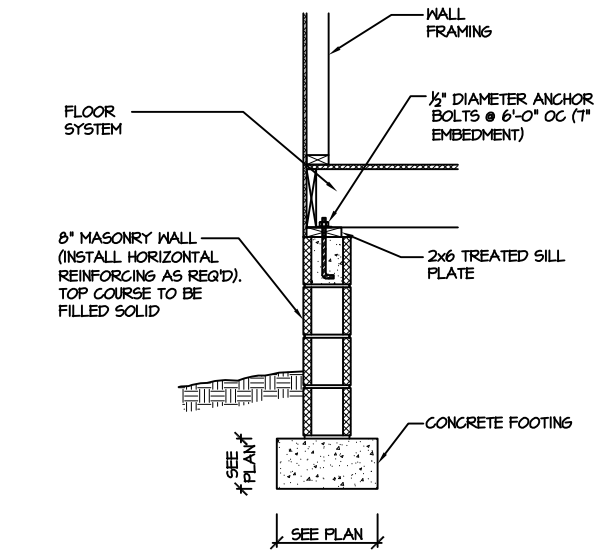
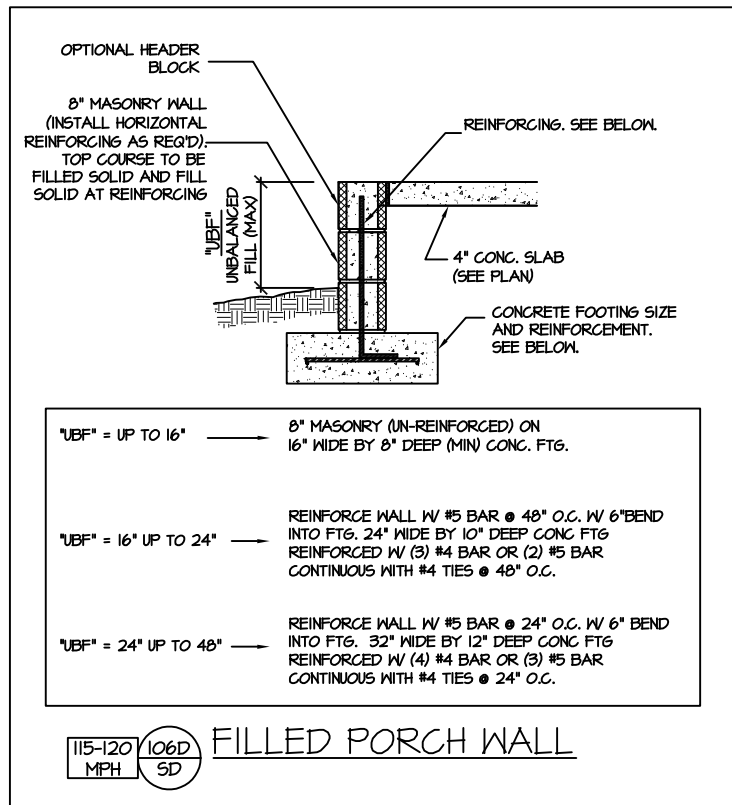
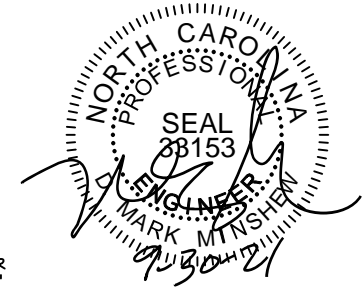
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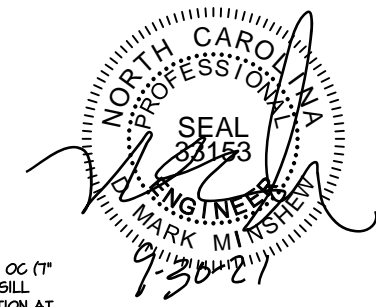
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PLAN 01
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SD



CRAWL SPACE FOUNDATION



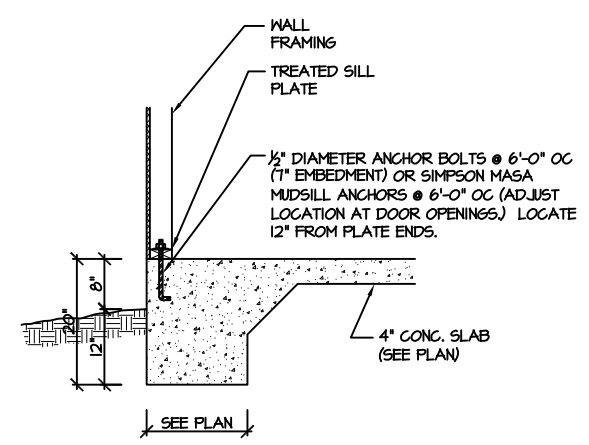
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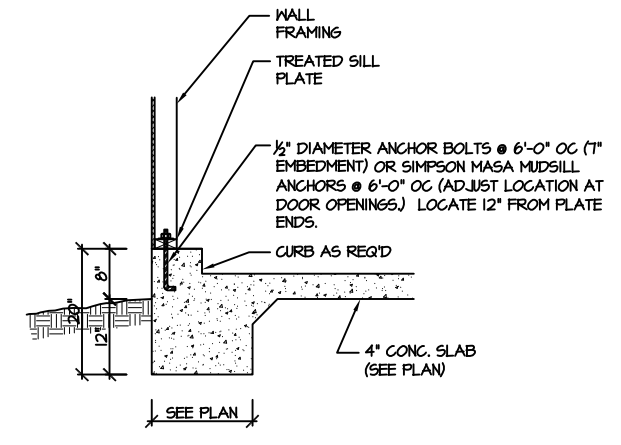
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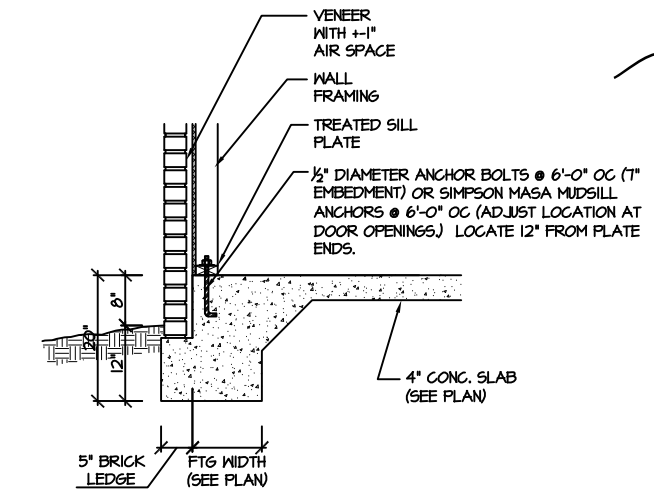
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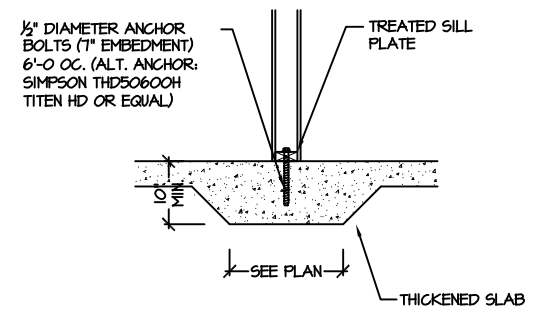
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(SIDING OR EQUAL)



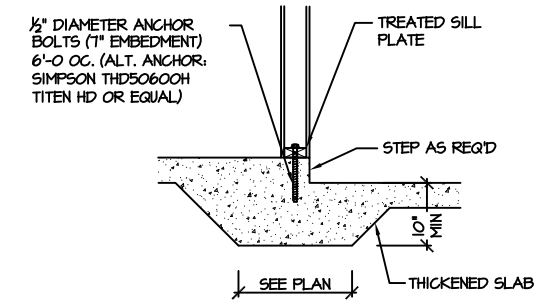
115-120 MPH 101A SD **MONOLITHIC SLAB @ GARAGE**
(SIDING OR EQUAL)



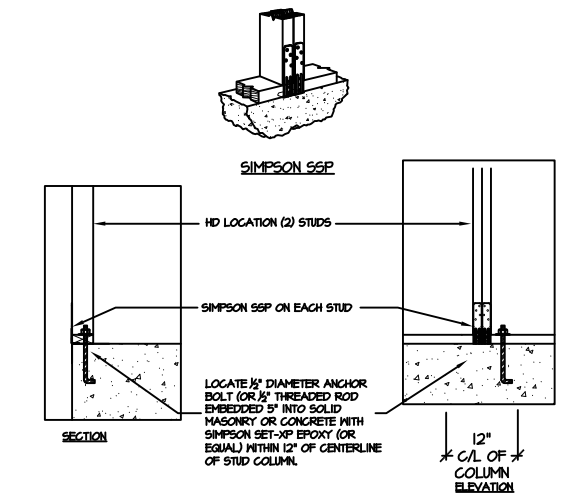
115-120 MPH 102A SD **MONOLITHIC SLAB FOOTING**
(VENEER)



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



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



903 SD **BRACED WALL END CONDITION "HD" HOLD-DOWN DETAIL**
NOTE: SIMPSON DTT-1Z IS ACCEPTABLE ALTERNATE
NOTE: ALTERNATE HD HOLD-DOWN DEVICES OR SYSTEMS MAY BE USED TO MEET THE CODE REQUIRED 800 LB CAPACITY IN LIEU OF THE ABOVE DETAIL.

SLAB FOUNDATION



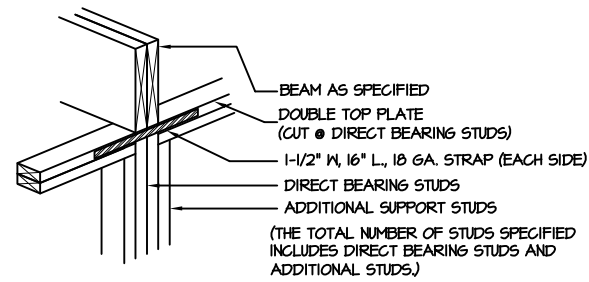
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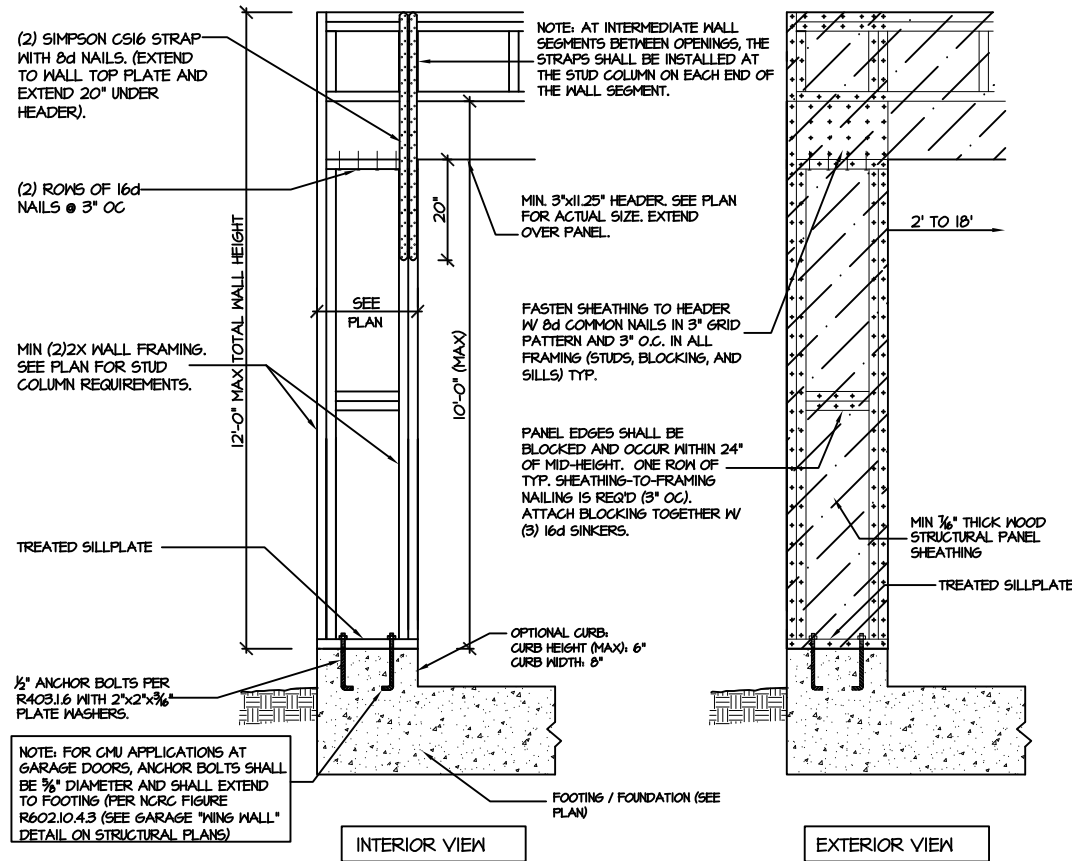
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PLAN 01
NEW HOME, INC.

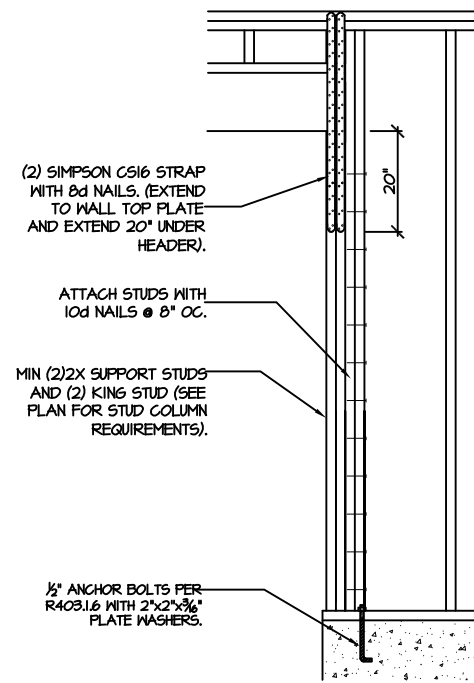
SD



205A
SD
DIRECT STUD BEARING
NTS



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



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

STRUCTURAL NOTES

NC (2018 NCR): 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)
 - EXTERIOR BALCONIES: (60 PSF, 10 PSF, L/360)
 - DECKS: (40 PSF, 10 PSF, L/360)
 - GUARDRAILS AND HANDRAILS: (200 LBS)
 - PASSENGER VEHICLE GARAGES: (50 PSF, 10 PSF, L/360)
 - FIRE ESCAPES: (40 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 (DCA6) 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 (NO). AIR ENTRAINMENT 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 1/3. (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 SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE SYP #2. PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
 - L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10⁶ PSI.
 - P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2.0x10⁶ PSI.
 - L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10⁶ 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 R103.0.3 LINTELS.