

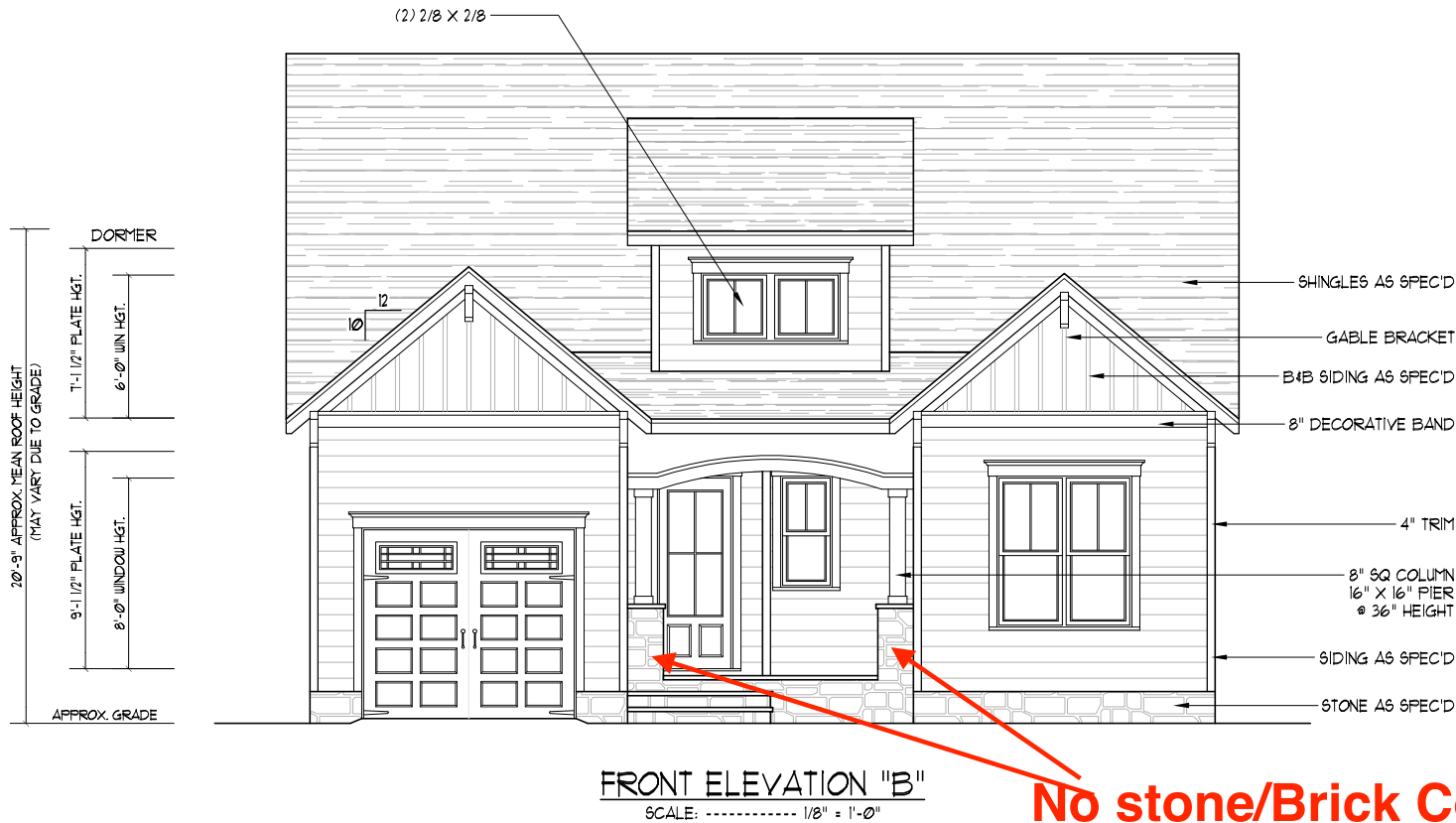
235 Sequoia Dr
Louisburg, NC 27549

Lake Royale Lot 2127



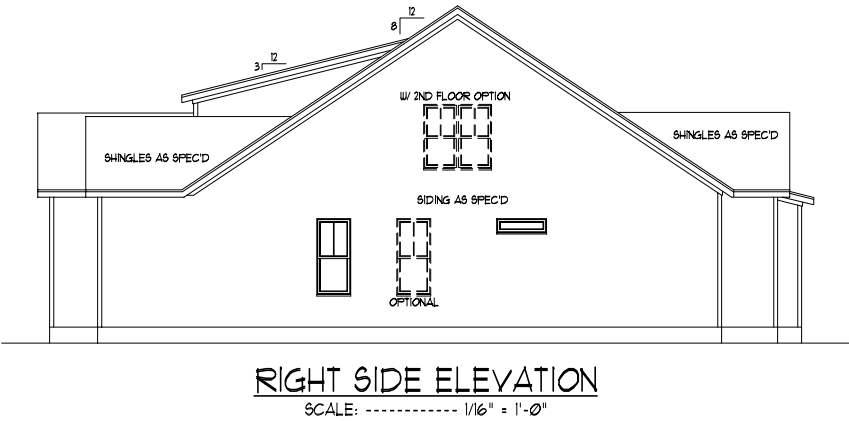
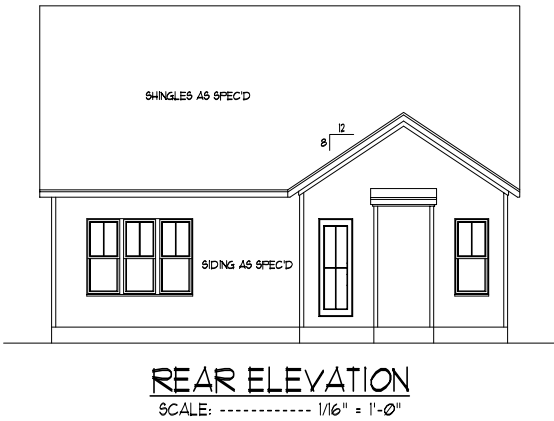
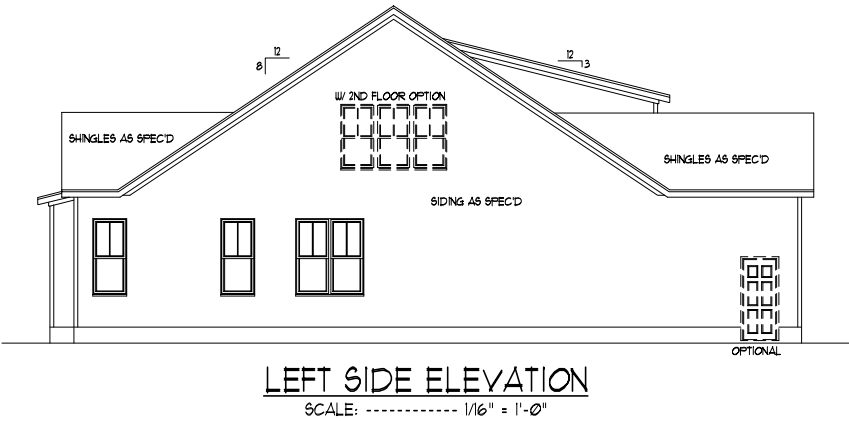
TABLE 402.1.1 ENERGY CONSERVATION CODE INSULATION AND PENETRATION REQUIREMENTS BY COMPONENT										
CRAWL SPACE	SLAB 4 DEPTH	MINIMUM INSULATION R-VALUE					GLAZED FENS. SHGC	SKY-LIGHT U-FAC	FENS. U-FAC	CLIMATE ZONE
		BSMT WALL	FLOOR	MASS WALL	WOOD WALL	CEILING				
5/13	0	10/13	19	5/10	13	30	0.30	0.65	0.35	3
10/13	10	10/13	19	5/10	15 or 13.25	38 or 30 cont	0.30	0.60	0.35	4
10/13	10	10/13	30	13/11	19 13.45 or 15.3	38 or 30 cont	NR	0.60	0.35	5

SEE TABLE 301.1 CLIMATE ZONES BY COUNTY ENERGY CONSERVATION CODE
SEE FOOTNOTES OF TABLE N102.1 FOR FOOTNOTES AND DETAILED EXPLANATIONS.



No stone/Brick Columns

THIS PLAN CONFORMS TO THE 2012 EDITION OF THE
I.R.C. / NORTH CAROLINA RESIDENTIAL CODE.



**DYNAMIC
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KEN HARVEY
PROJECT FOR: HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

JENNIFER
PLAN NAME

A-1758-38GL
PLAN I.D.

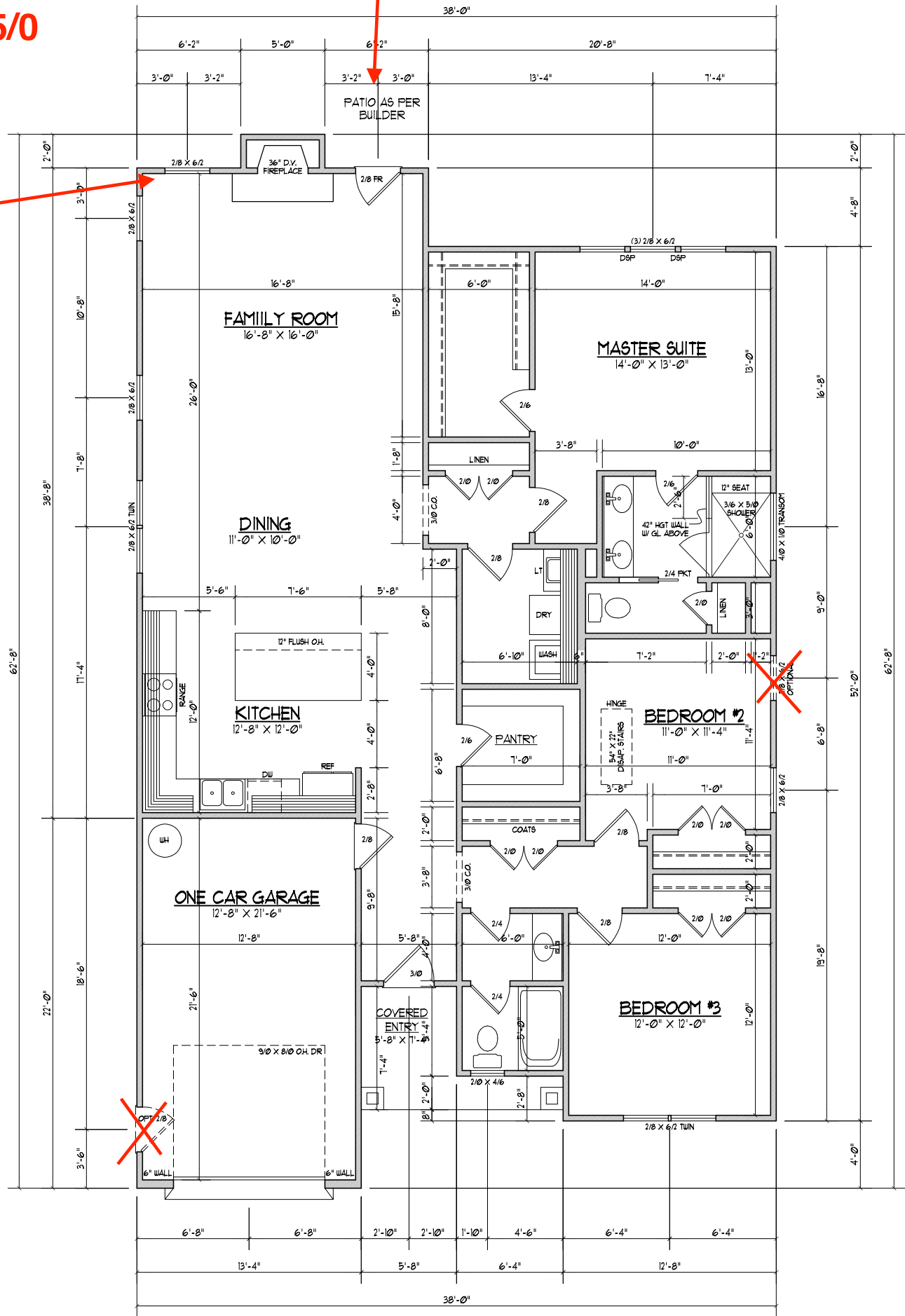
8-16-21
DATE

A-1B
SHEET

All 6/2 Windows will be 5/0

Full fixed 2/8 x 6/8 french door

See covered porch option



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KEN HARVEY
PROJECT FOR: HOMES
LOCATION: MULTI
LOT: MULTI
SUBDIVISION: MULTI
COUNTY: MULTI

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

1758 HEATED SQ. FT.
290 SQ. FT. GARAGE
54 SQ. FT. COVERED ENTRY

- NOTES:
- 9'-0" CL.G. HGT. (9' - 1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
 - ALL WALLS DRAWN AT 4" WIDTHS
 - SET WINDOWS AT 8'-0" ASF. UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
 - CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPENGS.
 - ELECTRICAL LAYOUT BY BUILDER

JENNIFER

PLAN NAME

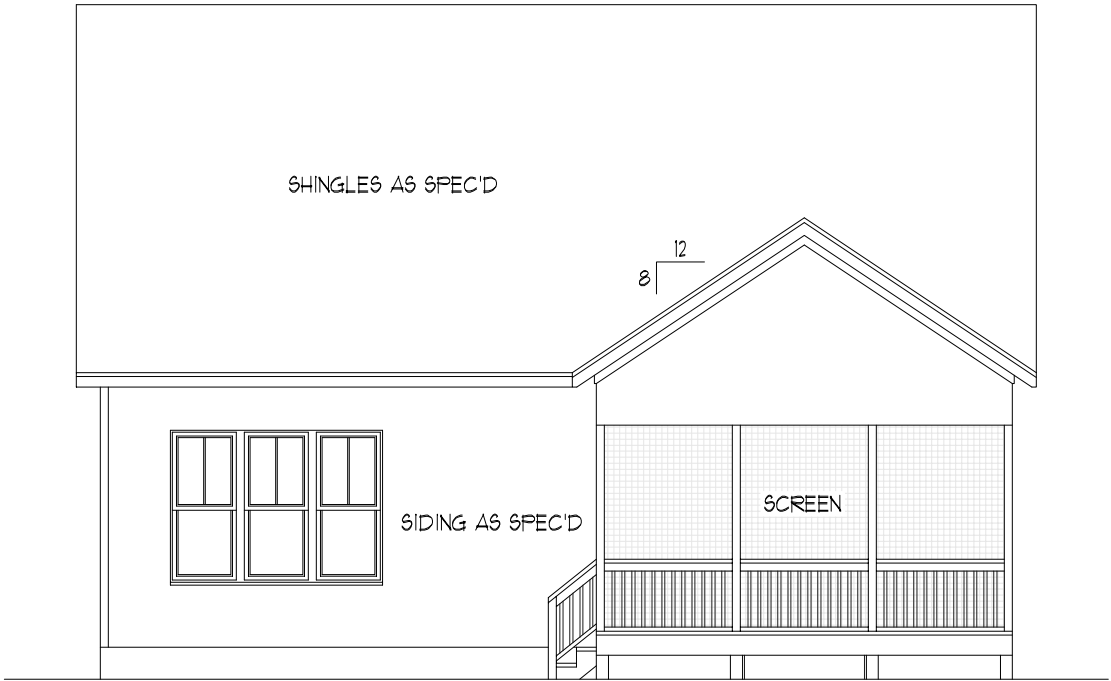
A-1758-38GL

PLAN I.D.

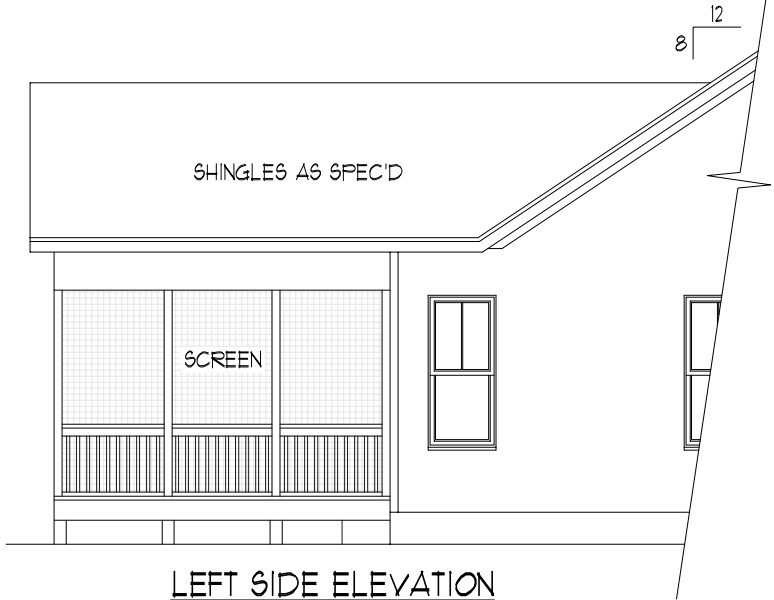
8-16-21

DATE

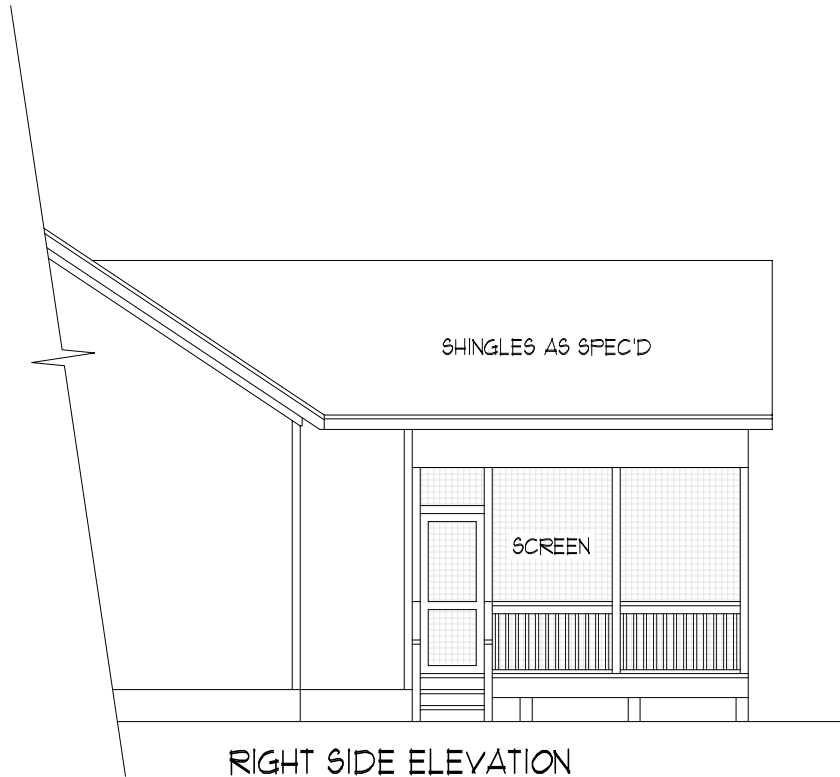
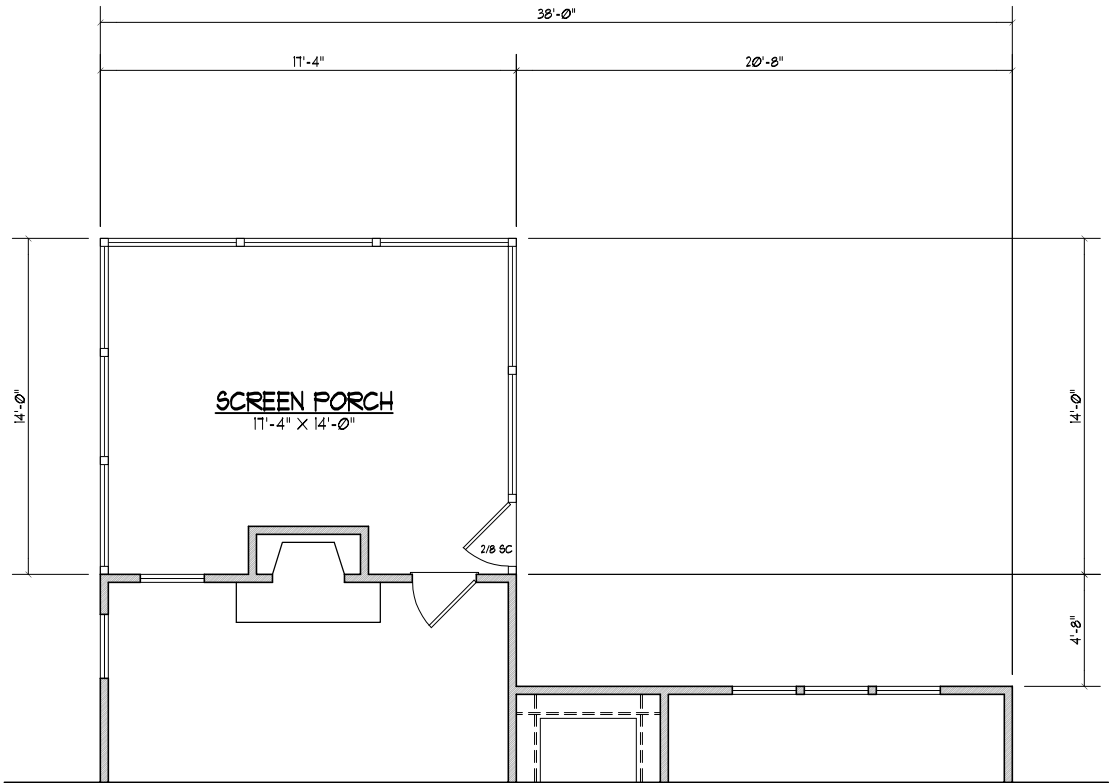
A-2A
SHEET



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



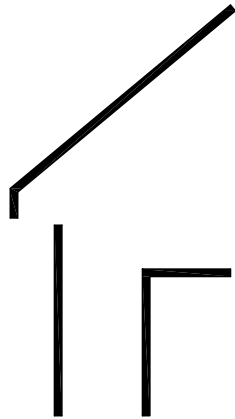
LEFT SIDE ELEVATION
SCALE: ----- 1/8" = 1'-0"



RIGHT SIDE ELEVATION
SCALE: ----- 1/8" = 1'-0"

**OPTIONAL
SCREEN PORCH**
SCALE: ----- 1/8" = 1'-0"

233 SQ. FT. SCREEN PORCH



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KEN HARVEY
PROJECT FOR: HOMES
LOCATION: MULTI
LOT: MULTI
SUBDIVISION: MULTI
COUNTY: MULTI

JENNIFER

PLAN NAME

A-1758-38GL

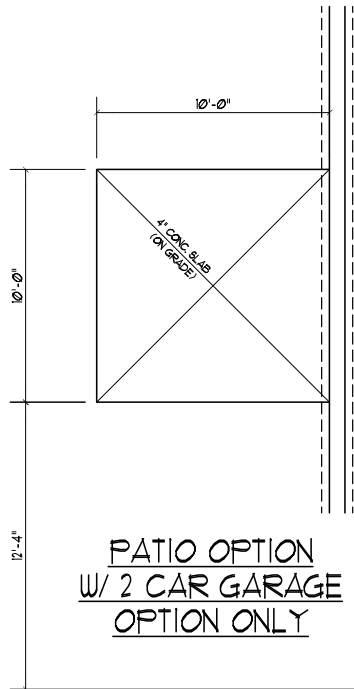
8-16-21

DATE

PLAN I.D.

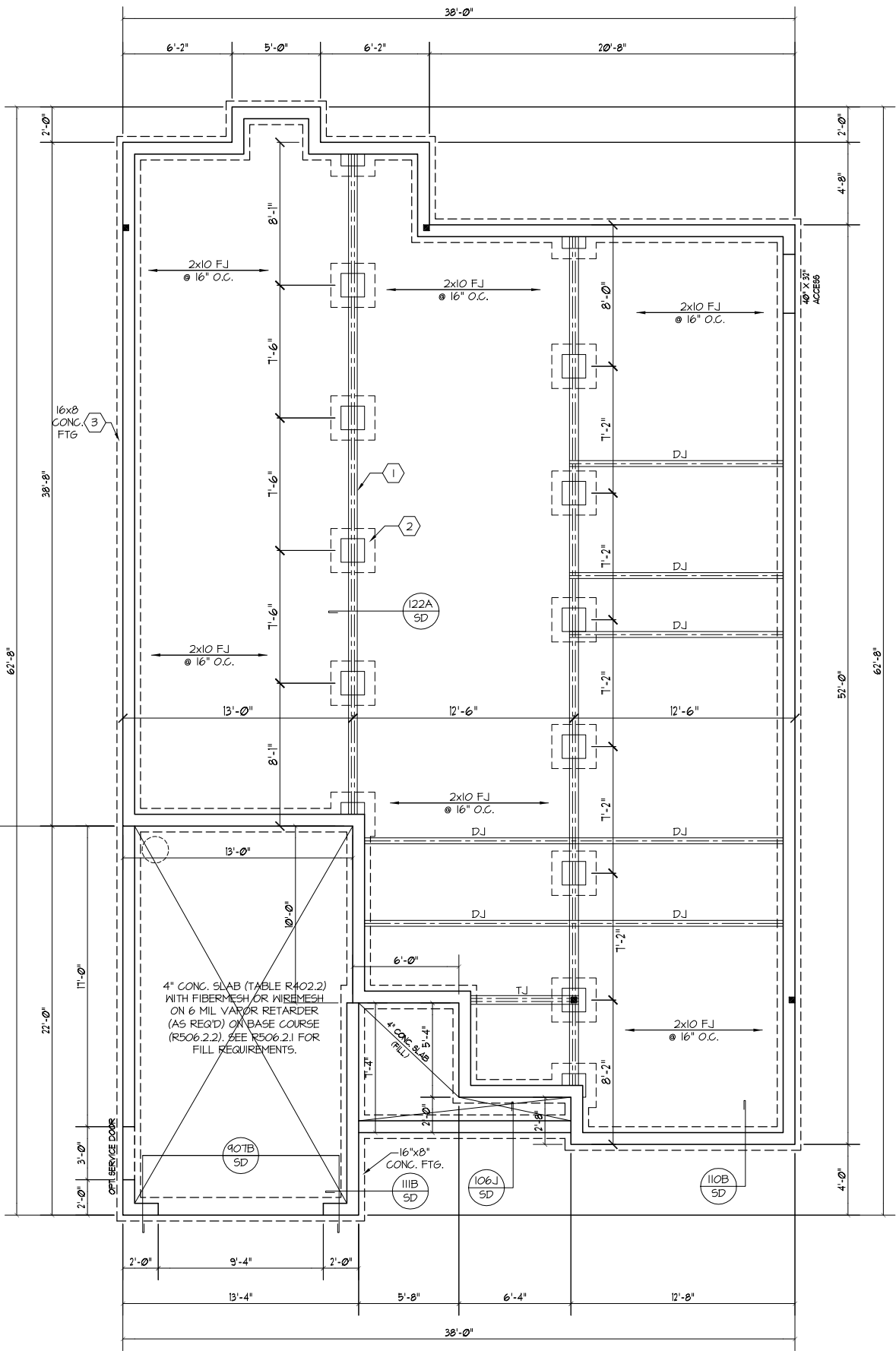
A-2 **SCREEN
PORCH
OPTION**

SHEET



WALL VENTED CRAWL SPACE			
REQUIRED			
1758	SQ. FT. / 50' =	11.72	SQ. FT. OF VENTILATION

CLOSED CRAWL SPACE VENTILATION METHODS			
(SEE REFERENCED SECTIONS IN CODE BOOK FOR DETAILED INSTRUCTIONS)			
(R409.3.1) DEHUMIDIFIER	A PERMANENTLY INSTALLED DEHUMIDIFIER SHALL BE PROVIDED IN THE CRAWL SPACE WITH THE MINIMUM RATED CAPACITY OF 5 PINTS PER DAY.		
(R409.3.2) SUPPLY AIR	1758	SQ. FT. / 30' =	59 CFM
(R409.3.3) HOUSE AIR	1758	SQ. FT. / 30' =	36 CFM
(R409.3.4) EXHAUST FAN	1758	SQ. FT. / 30' =	36 CFM
(R409.3.5) 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 R409.3.1.		



FOUNDATION STRUCTURAL NOTES

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

(1) (3)2x10 SYP#2 OR SPF#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 9'-0"
16x16 UP TO 64" UP TO 12'-0"
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
WIDTH:
SIDING: 16" - UP TO 2 STORY
20" - 3 STORY
16" - 1 STORY
20" - 2 STORY
24" - 3 STORY
BRICK:

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.1.1 (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) 2x10 SPF #2 OR SYP #2 GIRDER

(5) (2) 1.75x9.25 LVL OR LSL GIRDER

(6) (3) 1.75x9.25 LVL OR LSL GIRDER

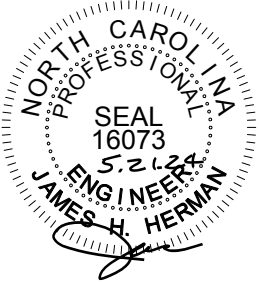
1. "■" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO END, TYPICAL.

8. ABBREVIATIONS:
"SJ" = SINGLE JOIST
"DJ" = DOUBLE JOIST
"TJ" = TRIPLE JOIST

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

CRAWLSPACE FOUNDATION PLAN WITHOUT SECOND FLOOR

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



PROJECT #
21-3072 (235)

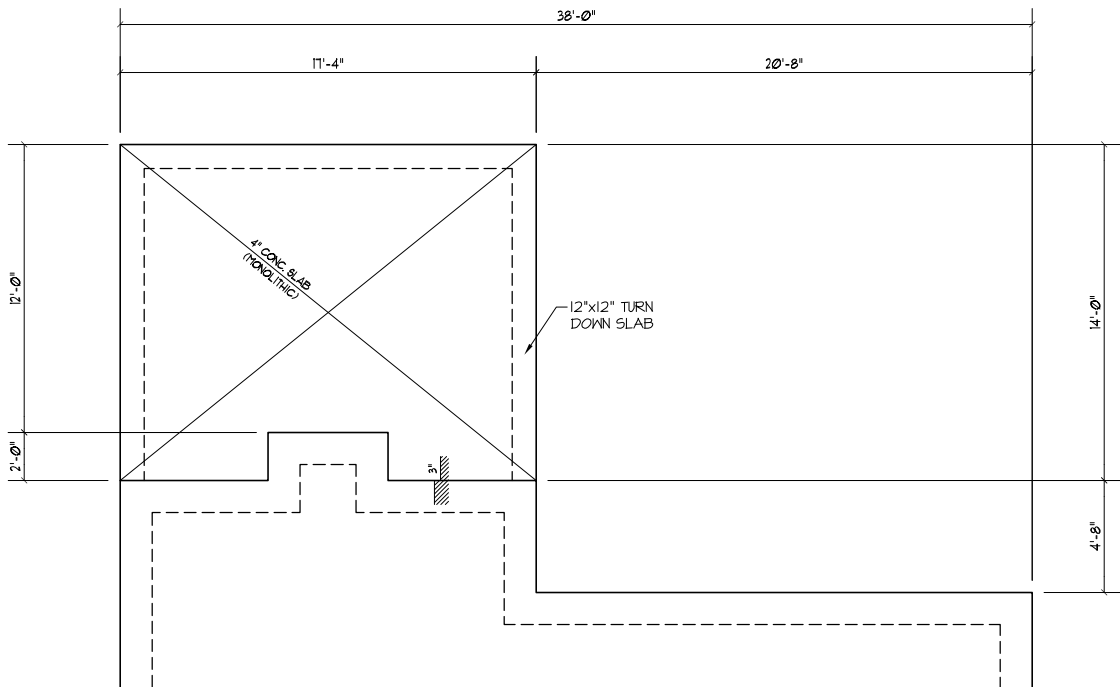
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Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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License: C-4772
www.southernengineers.com

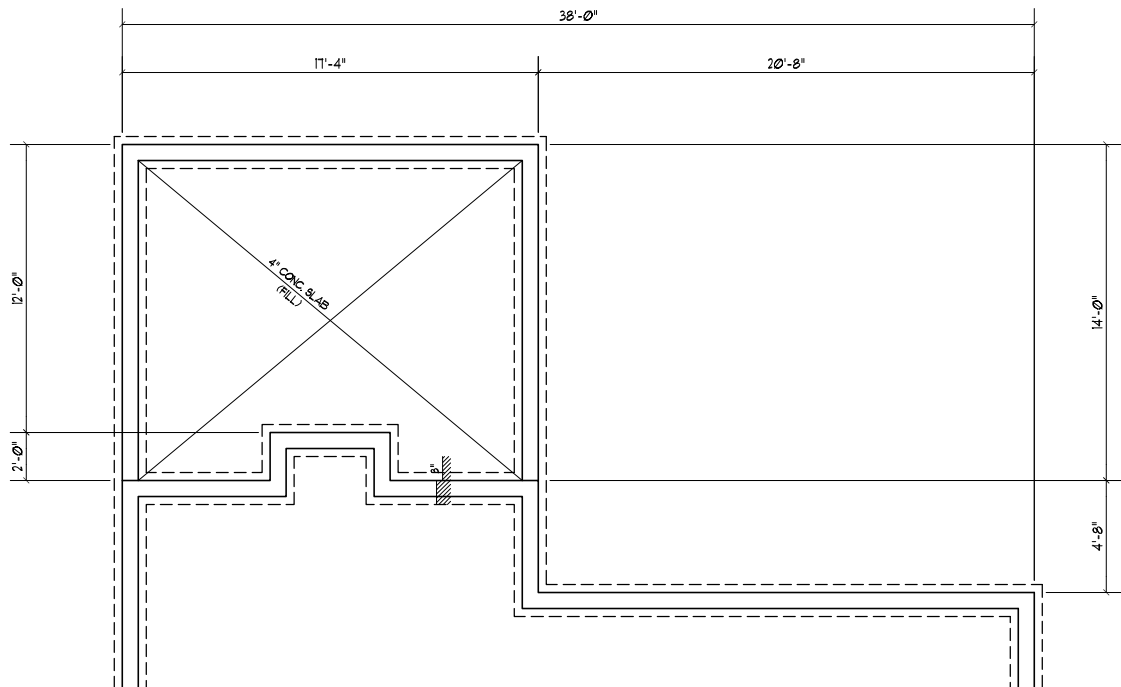
DYNAMIC DESIGN GROUP

235 Sequoia Drive
"Jemifer-GL"
KEN HARVEY HOMES

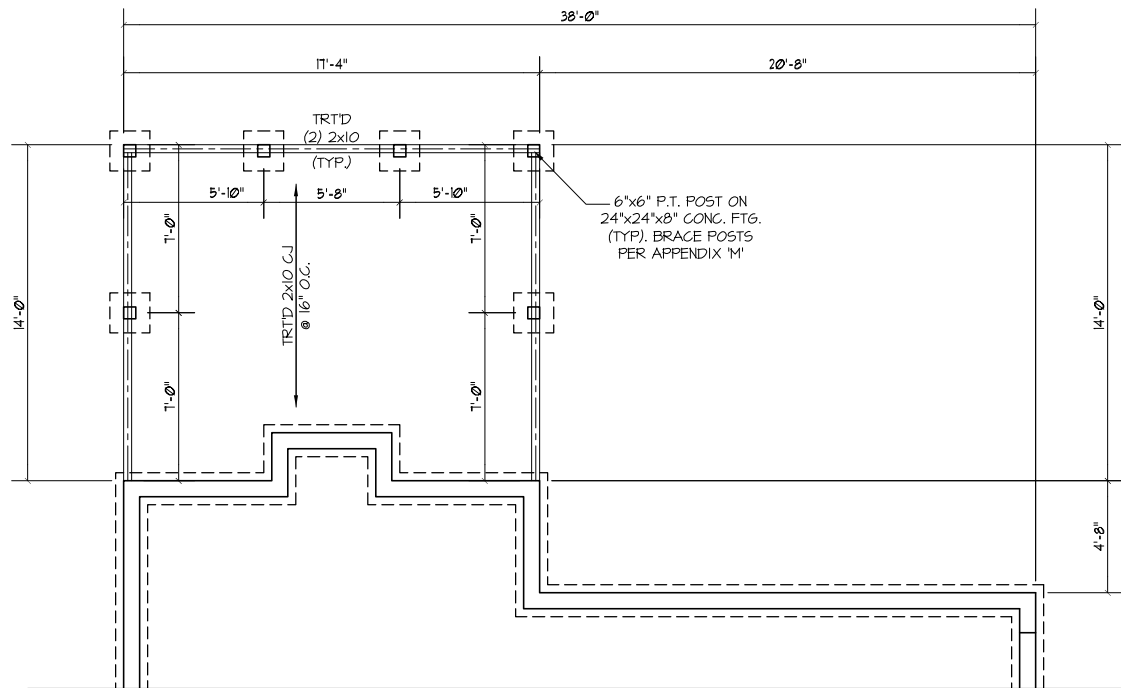
S-1



MONOLITHIC



8" STEM WALL W/ SLAB



CRAWLSPACE

OPTIONAL SCREEN PORCH
FOUNDATION PLAN
SCALE: ----- 1/8" = 1'-0"



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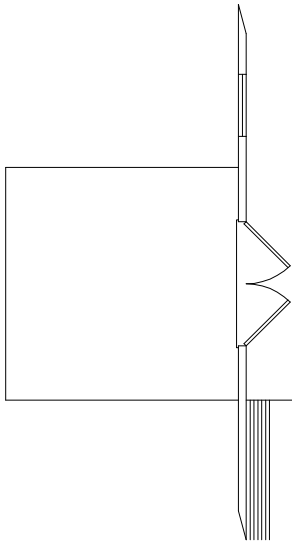
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KEN HARVEY HOMES

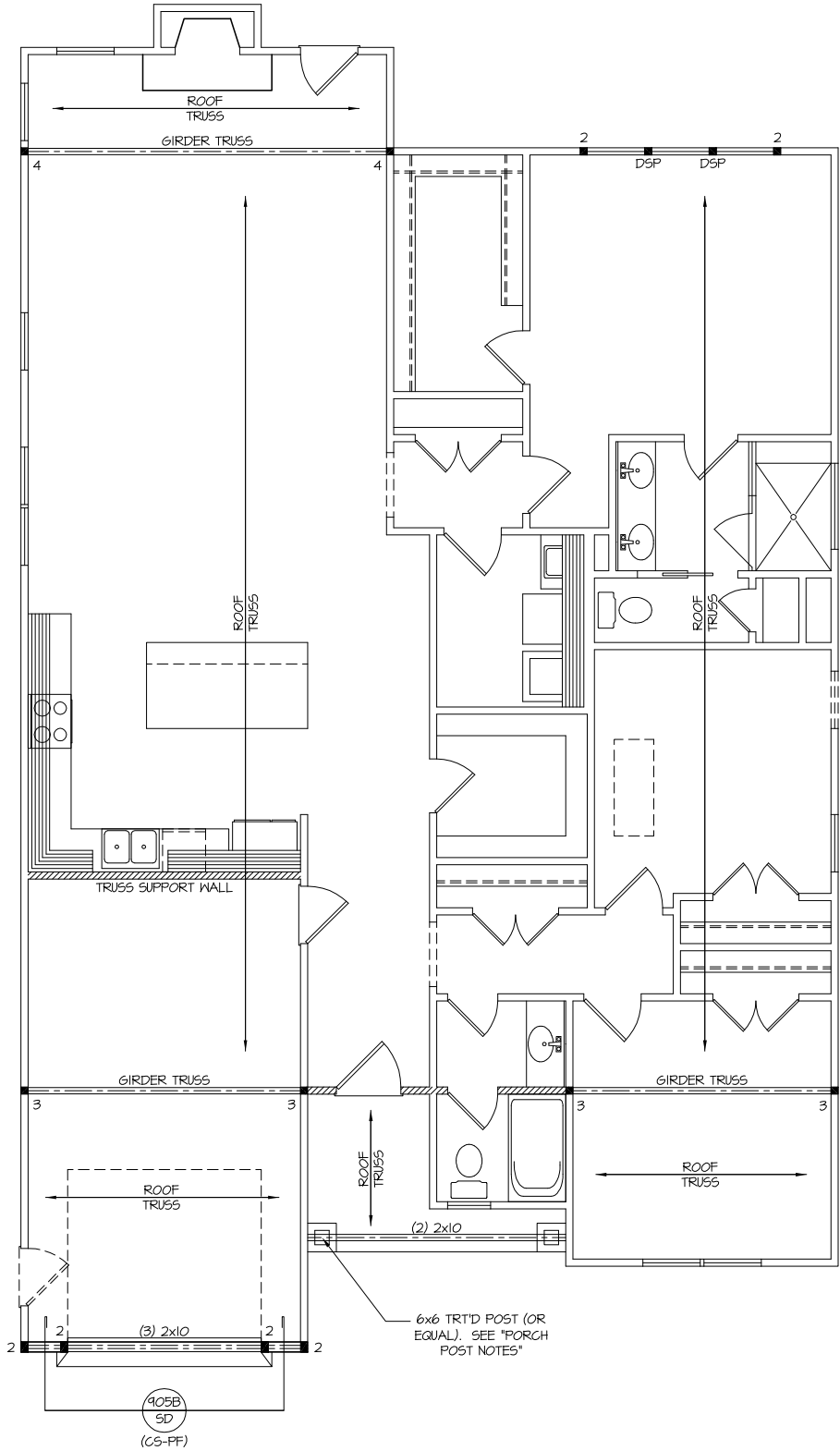
S-1.1

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- TRUSS SYSTEM REQUIREMENTS**
NC (2018 NCRC): 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.



ELEVATION "B"
CEILING / STRUCTURAL PLAN
SCALE: ----- 1/8" = 1'-0"

PROJECT #
21-3072 (235)

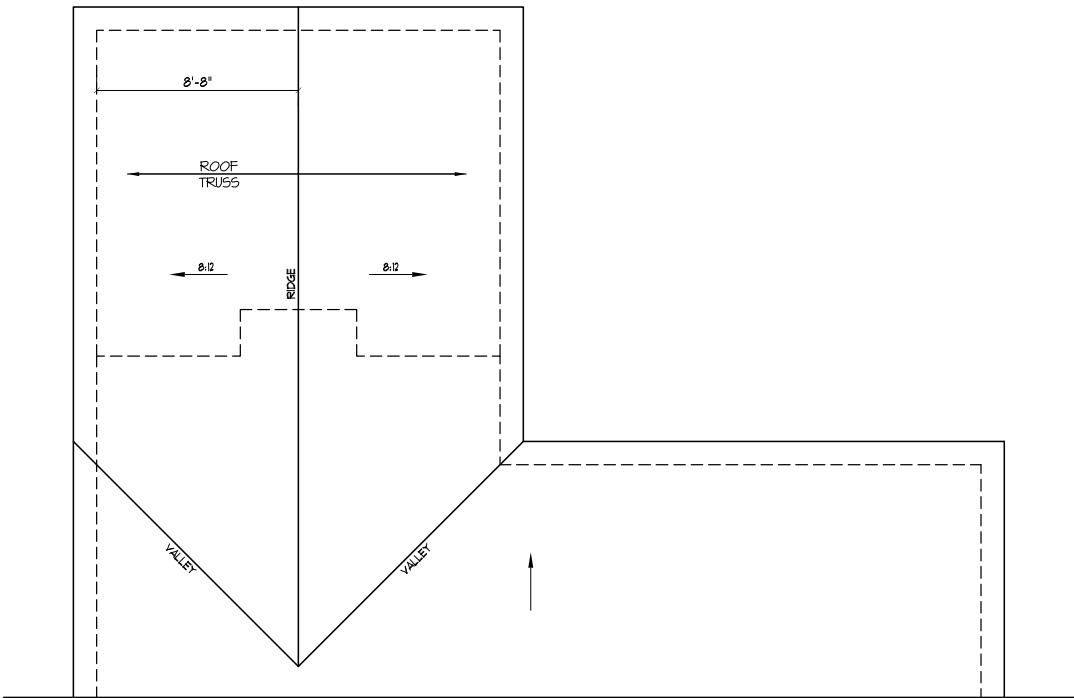
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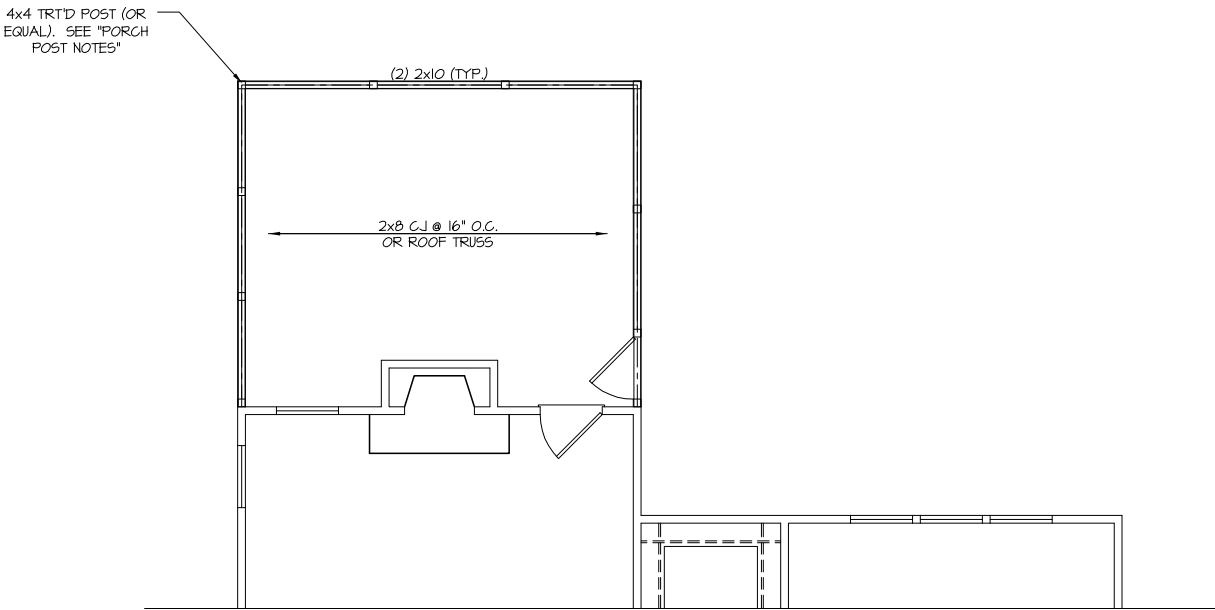
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"Jennifer-GL"
KEN HARVEY HOMES

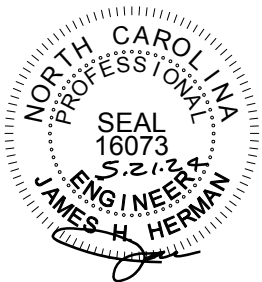
S-2



ROOF FRAMING PLAN



CEILING / STRUCTURAL PLAN



TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC): 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.

ROOF TRUSS
OPTIONAL SCREEN PORCH
CEILING / STRUCTURAL PLAN

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

PROJECT #
21-3072 (235)

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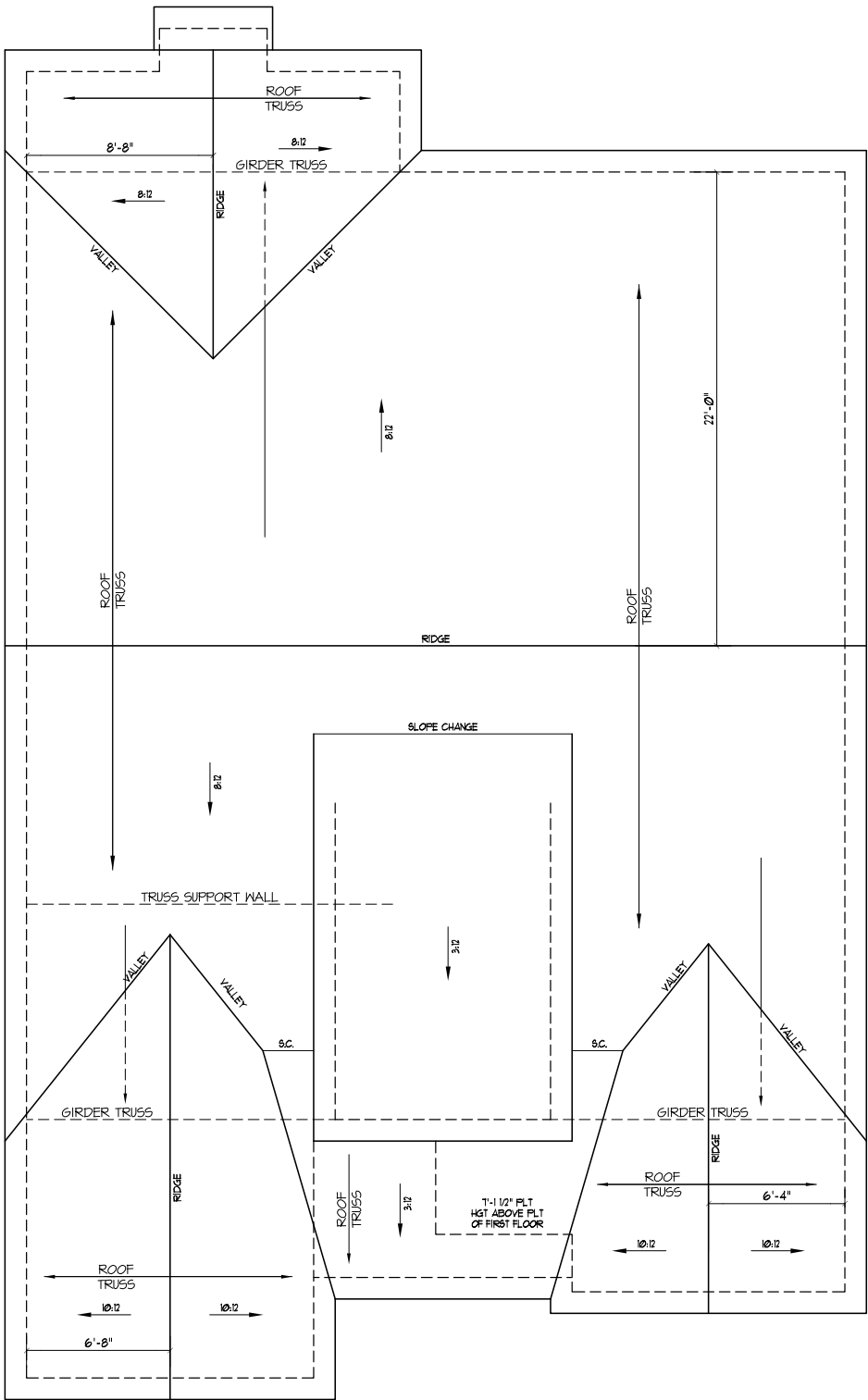
DYNAMIC
DESIGN
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235 Sequoia Drive

"Jennifer-GL"

KEN HARVEY HOMES

S-2.1



TRUSS SYSTEM REQUIREMENTS

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

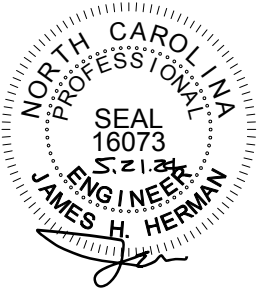
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2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS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

ATTIC VENTILATION			
REQUIRED			
**2112	SQ. FT. OF ATTIC / 300 =	**104	SQ. FT. OF INLET + OUTLET
PROVIDED			
(INLET) SOFFIT	01	SQ. FT. PER x 72	LINEAR FT. = 504
(OUTLET) RIDGE	11	SQ. FT. PER x 56	LINEAR FT. = 616
		1120	TOTAL SQ. FT. OF VENT.
		45	(TOTAL OF INLET)
		55	(TOTAL OF OUTLET)

** SCREEN PORCH OPTION NOT INCLUDED
** TWO CAR OPTION NOT INCLUDED

ELEVATION "B"
ROOF FRAMING PLAN
(TRUSS ROOF)

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



PROJECT #
21-3072 (235)

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235 Sequoia Drive
"Jennifer-GL"
KEN HARVEY HOMES

S-3

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)
 - 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 (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/D. (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 (UNO). 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 R703.8.3 LINTELS.

FRAMING NOTES

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

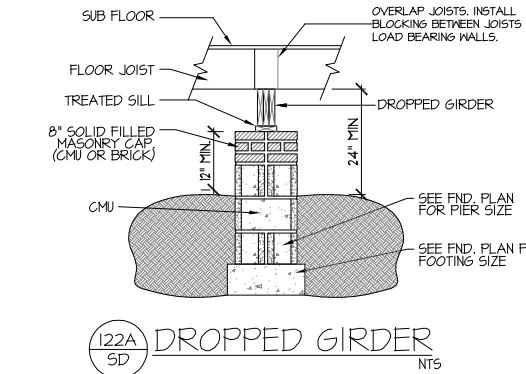
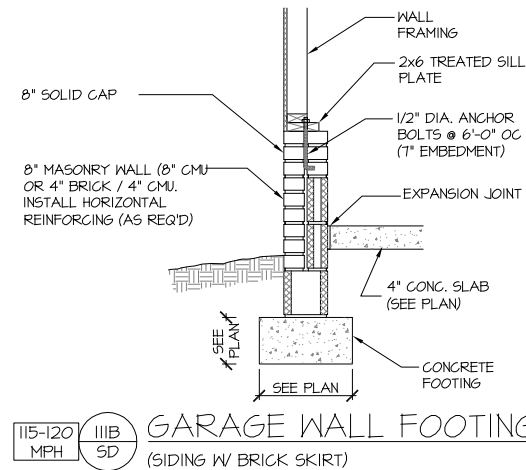
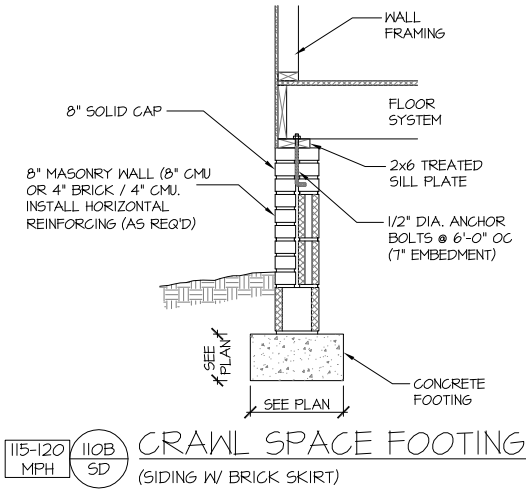
- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP: C5-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY SECTION R602.10 OF THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL 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"/12" 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 C522 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.
- INTERIOR BRACED WALL-WOOD STRUCTURAL PANEL: (NOTED AS "IBW-WSP" ON PLANS). ATTACH ONE SIDE WITH 7/8" 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 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

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

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: 3/8" ANCHOR (EMBED 1")
 - CMU: 3/8" 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: THE ABOVE CONNECTORS ARE SUGGESTIONS. EQUIVALENT CONNECTORS THAT MEET THE REQUIREMENTS OF THE NC RESIDENTIAL BUILDING CODE, LOCAL CODES, AND/OR ARE APPROVED BY THE BUILDING INSPECTOR MAY BE SUBSTITUTED.



PROJECT #
21-3072 (235)

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Seal is valid for projects permitted one year from date of seal.
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Phone: (919) 878-1617
License: C-4772
www.southernengineers.com

DYNAMIC
DESIGN
GROUP

235 Sequoia Drive
"Jennifer-GL"
KEN HARVEY HOMES

SD

PROJECT #
21-3072 (235)

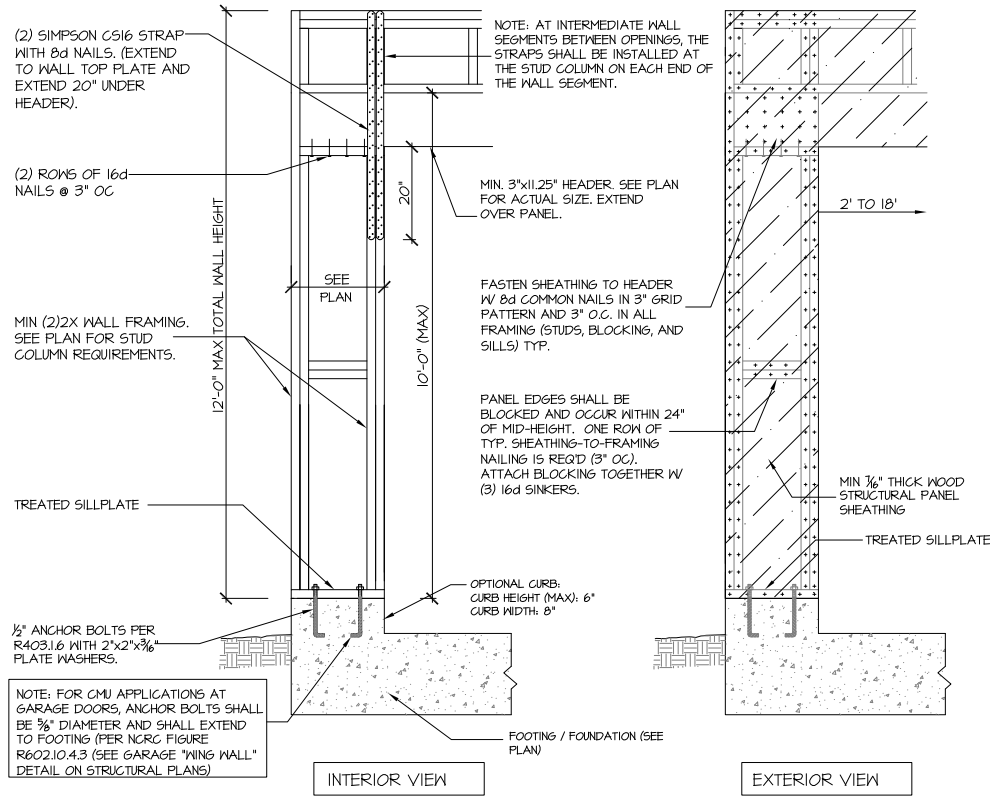
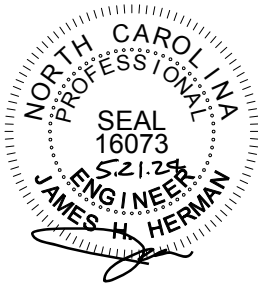
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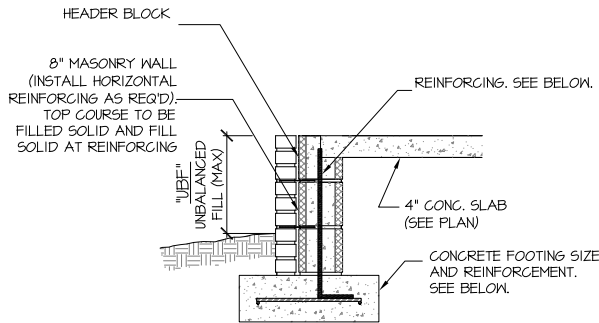
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235 Sequoia Drive
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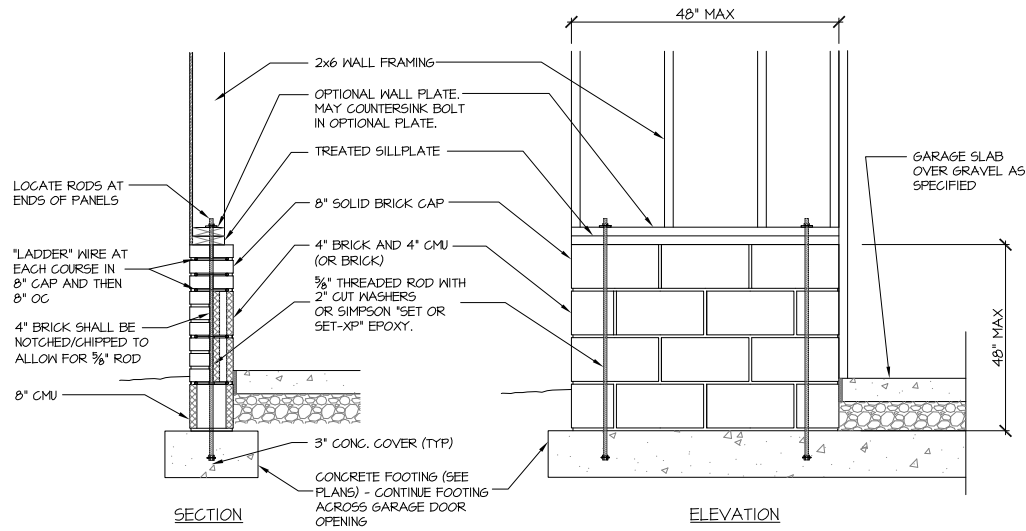


905B
SD CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION

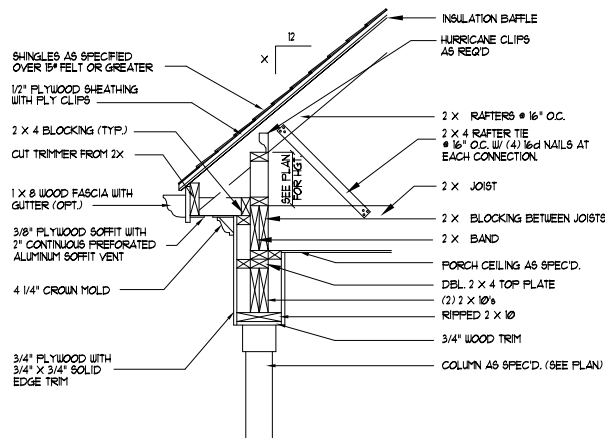


- "UBF" = UP TO 16" → 8" MASONRY (UN-REINFORCED) ON 16" WIDE BY 8" DEEP (MIN) CONG. FTG.
- "UBF" = 16" UP TO 24" → REINFORCE WALL W/ #5 BAR @ 48" O.C. W/ 1.5" BEND INTO FTG. 24" WIDE BY 10" DEEP CONG FTG REINFORCED W/ (3) #4 BAR OR (2) #5 BAR CONTINUOUS WITH #4 TIES @ 48" O.C.
- "UBF" = 24" UP TO 48"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

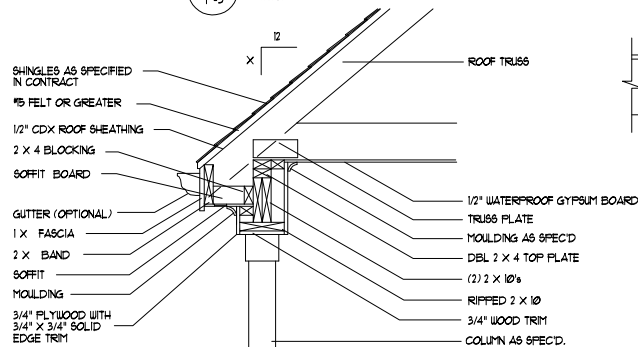
115-120
MPH 106J
SD FILLED PORCH WALL
(BRICK SKIRT)



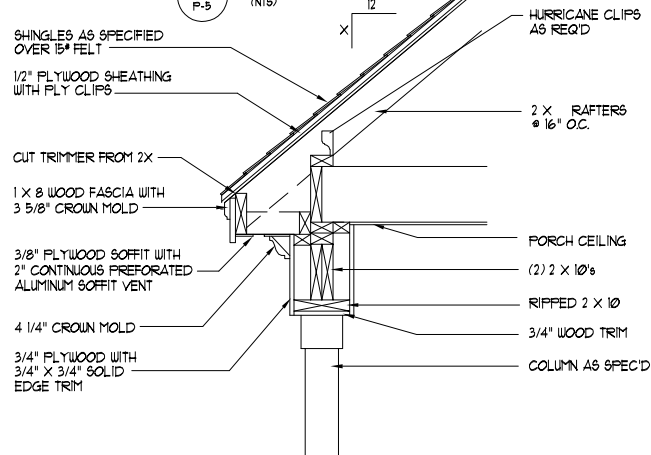
907B
SD GARAGE "WING WALL" REINFORCING
PER IRC FIGURE R602.10.4.3



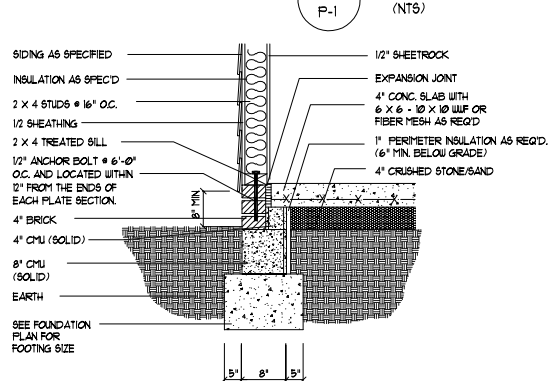
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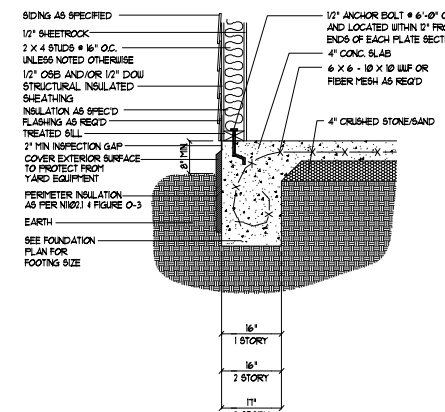
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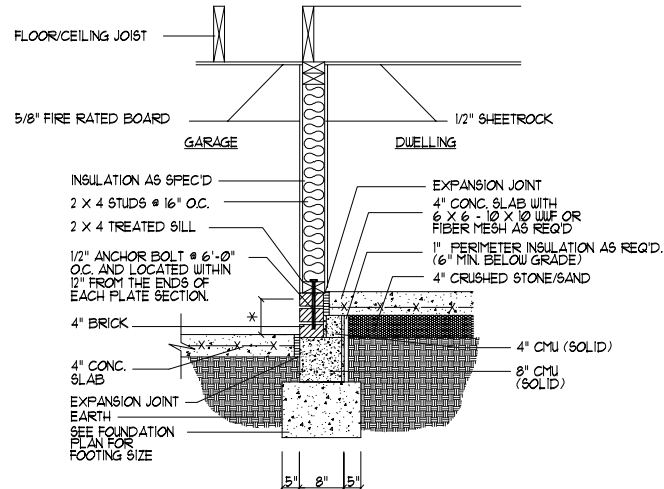
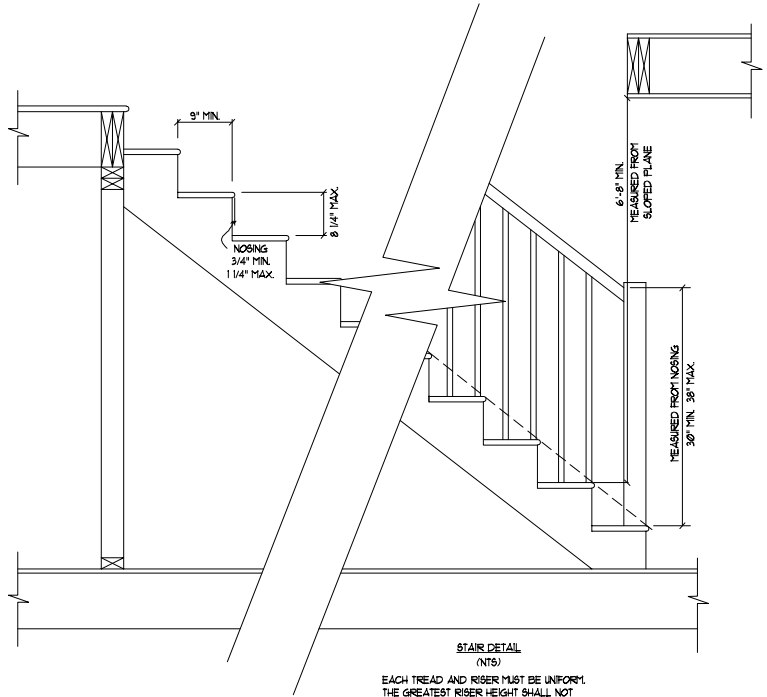
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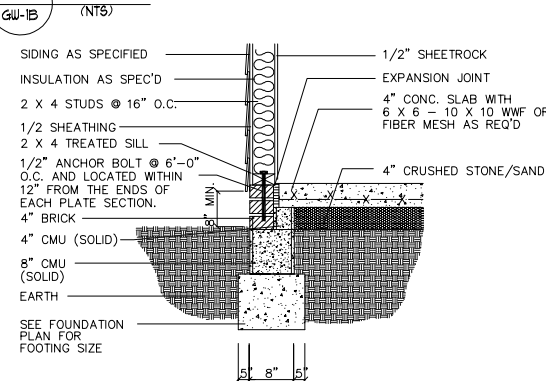
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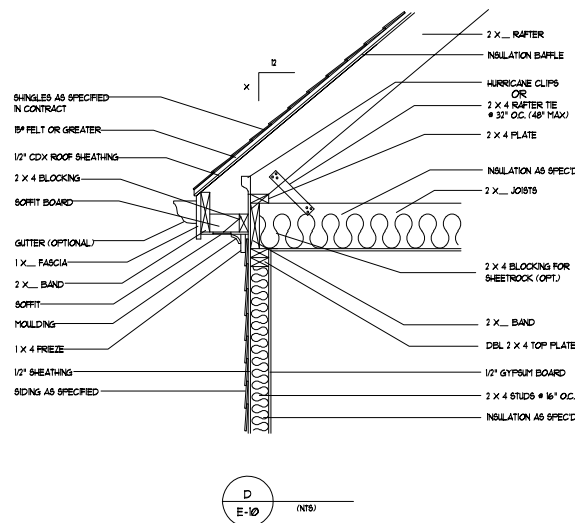
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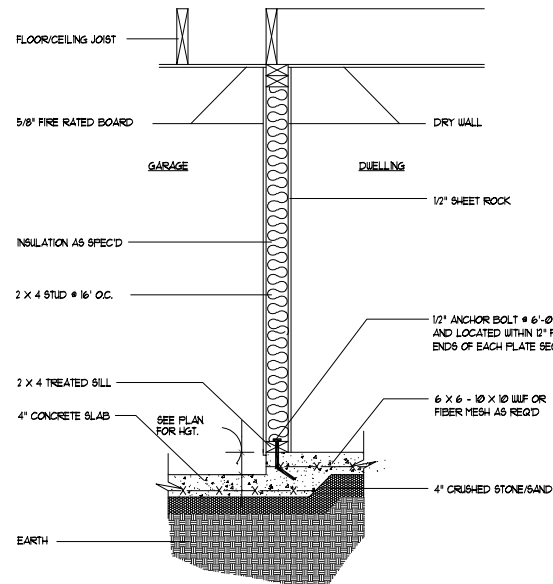
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GU-1B (NTS)



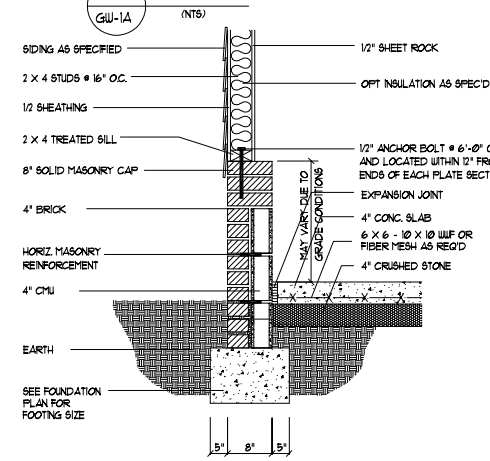
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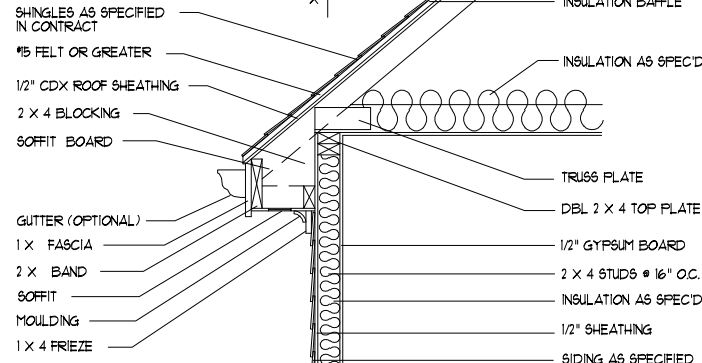
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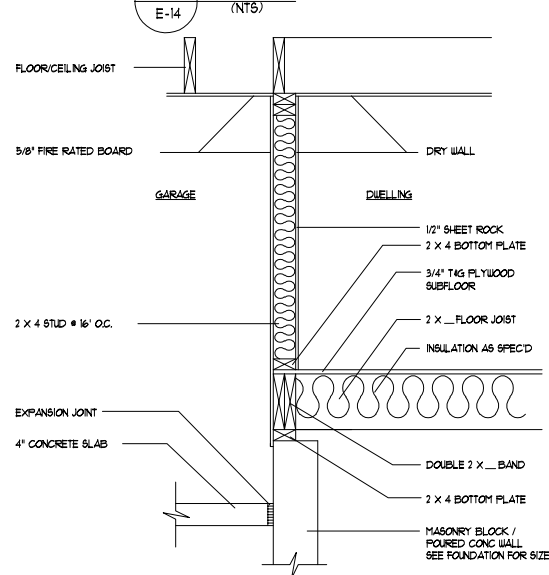
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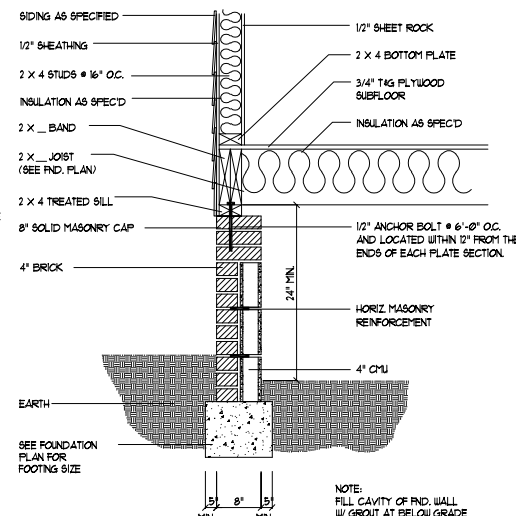
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F-16 (NTS)



D
E-14 (NTS)



D
GU-1 (NTS)



D
F-10 (NTS)



DYNAMIC DESIGN GROUP, INC

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KEN HARVEY
PROJECT FOR: HOMES
LOCATION: MULTI
LOT: MULTI
SUBDIVISION: MULTI
COUNTY: MULTI

JENNIFER
PLAN NAME
A-1758-38GL
8-16-21
DATE
PLAN I.D.

D-1
SHEET