

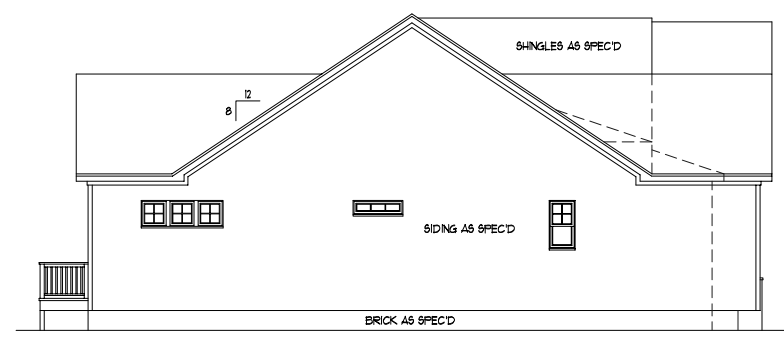
Cotton Farms  
 Lot 34  
 Riley C  
 Garage Right  
 Screen Porch Option

288 Deer Tail Lane  
 Fuquay Varina, NC



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

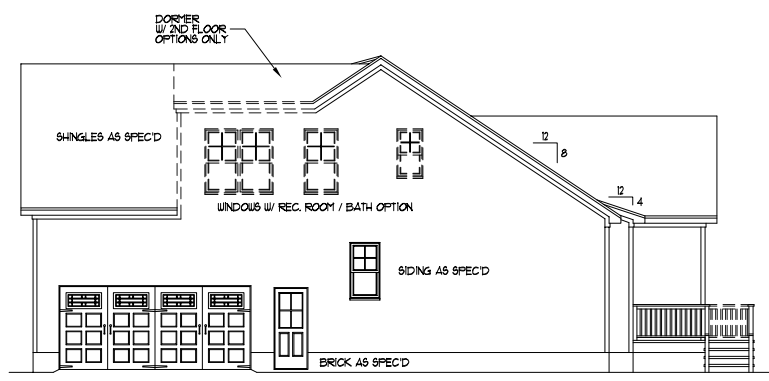
FRONT ELEVATION "C"  
 SCALE: 1/4" = 1'-0"



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



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



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

**DYNAMIC DESIGN GROUP, INC**  
 David D Grorud  
 (919) 601-1406  
 DynamicDesignGroup@gmail.com  
 www.DDGhomeplans.com

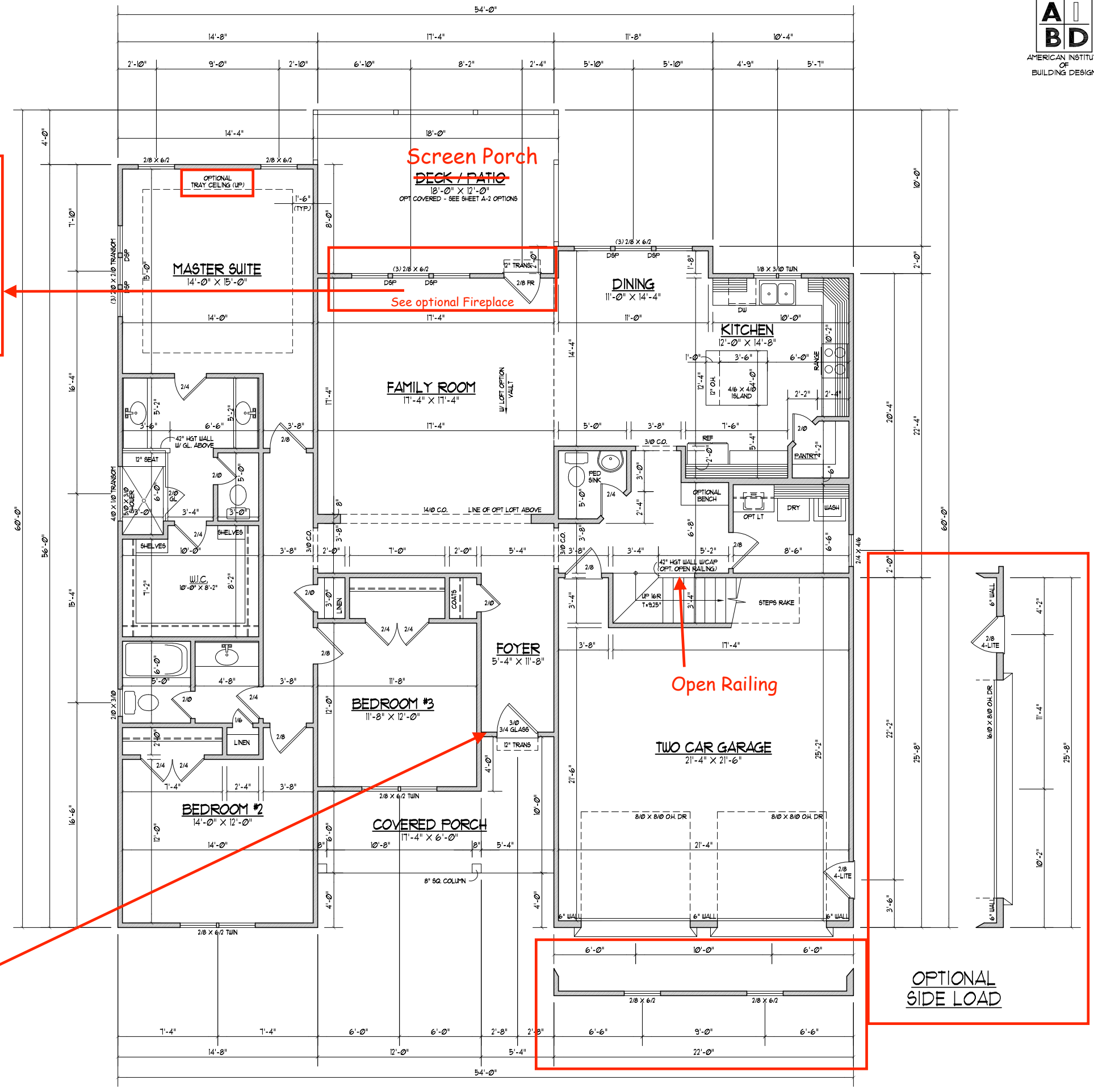
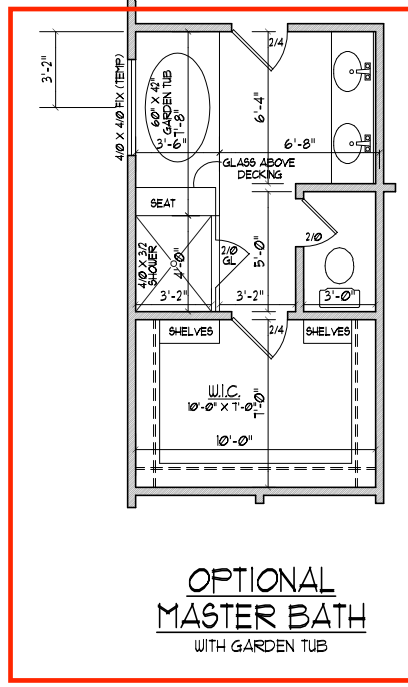
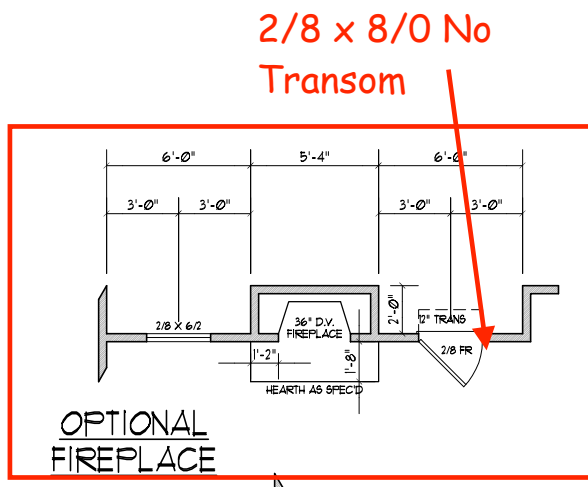
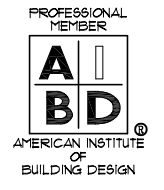
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KEN HARVEY  
 PROJECT FOR: HOMES  
 LOCATION: MULTI  
 LOT: MULTI  
 SUBDIVISION: MULTI  
 COUNTY: MULTI

**RILEY**  
 PLAN NAME  
 A-1977-54GR  
 PLAN I.D.  
 8-12-21  
 DATE

**A-1C**  
 SHEET

All 6/2 windows will be 6/0 windows



Screen Porch

See optional Fireplace

Open Railing

OPTIONAL SIDE LOAD

ELEVATIONS "A" & "C"  
FIRST FLOOR PLAN  
WITH SECOND FLOOR  
SCALE: ----- 1/4" = 1'-0"

1998 HEATED SQ. FT.  
540 SQ. FT. GARAGE  
125 SQ. FT. COVERED PORCH  
213 SQ. FT. PATIO / DECK

- NOTES:
- 1) 9'-0" CLG. HGT. (9' - 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED.
  - 2) ALL WALLS FIGURED AT 4" WIDTHS UNLESS OTHERWISE NOTED.
  - 3) SET WINDOWS AT 1'-10" 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 BY BUILDER

3/0 x 8/0  
No Transom

PROFESSIONAL MEMBER  
**A I B D**  
AMERICAN INSTITUTE OF BUILDING DESIGN

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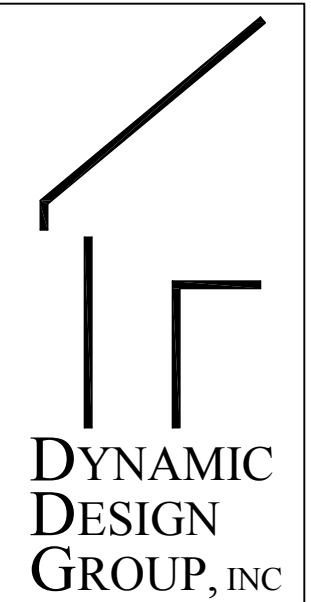
KEN HARVEY  
PROJECT FOR: HOMES

LOCATION: MULTI  
LOT: MULTI  
SUBDIVISION: MULTI  
COUNTY: MULTI

**RILEY**  
PLAN NAME

**A-1977-54GR** 8-12-21  
PLAN I.D. DATE

**A-2A**  
SHEET

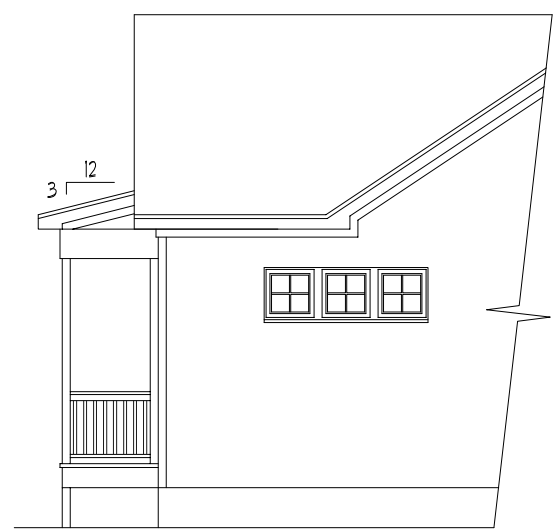


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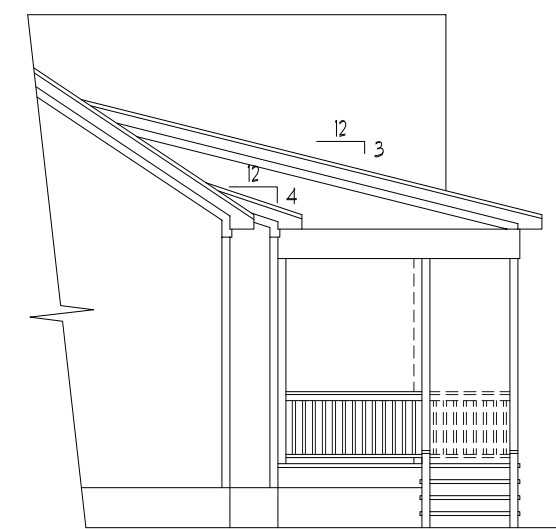
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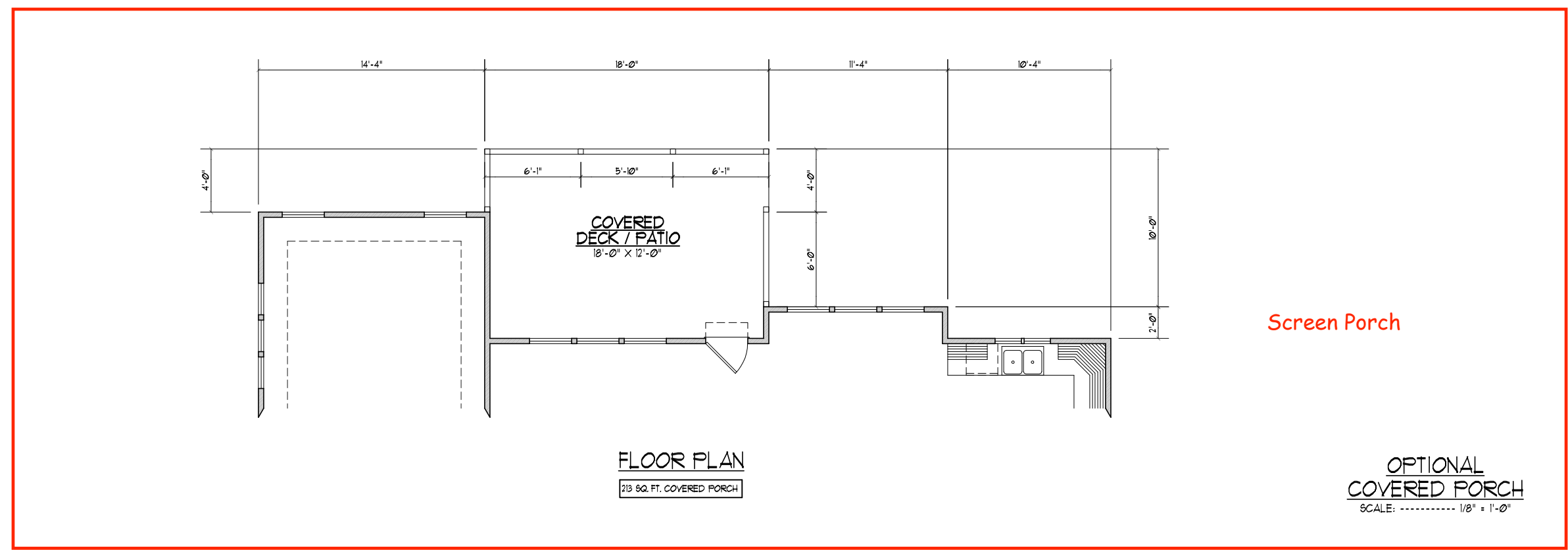
LEFT SIDE ELEVATION



REAR ELEVATION

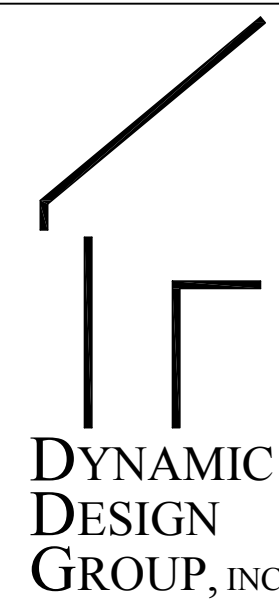


RIGHT SIDE ELEVATION



**RILEY**  
 PLAN NAME  
 A-1977-54GR  
 PLAN I.D.  
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**A-2** COVERED PORCH OPTION  
 SHEET



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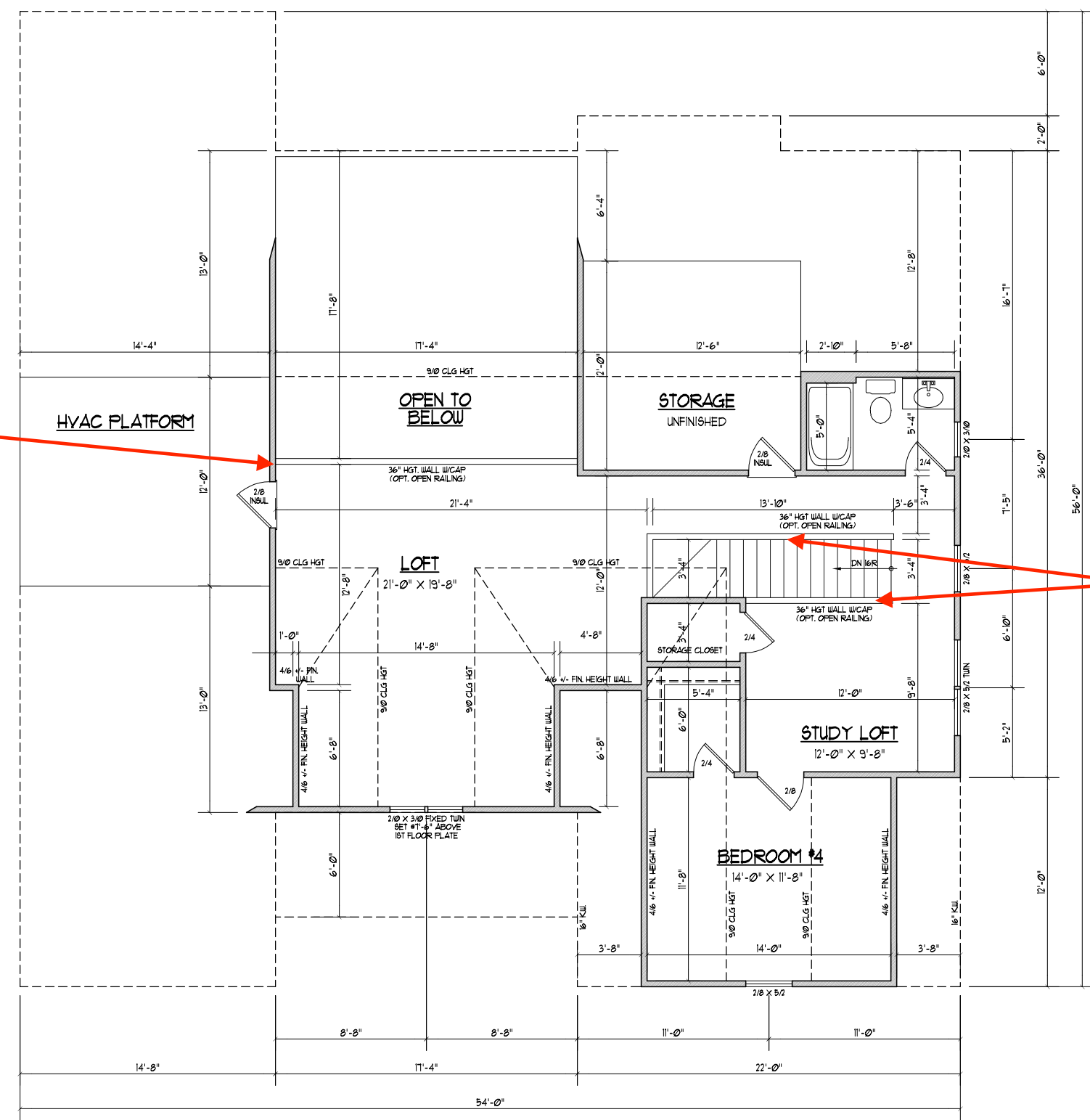
**RILEY**  
 PLAN NAME  
**A-1977-54GR**  
 PLAN I.D.  
**8-12-21**  
 DATE

**A-3C**  
 SHEET

All 5/2 windows will be 5/0

Full Height Wall

Open Rails



OPTIONAL 8'-0" CLG. HGT.  
 (8' - 1 1/2" FLT. HGT.)  
 SET WINDOWS @ 6'-8" A.S.F.

**ELEVATION "C"**  
**SECOND FLOOR PLAN**  
**WITH OPT. BEDROOM #4 / LOFT**  
**& OPEN TO FAMILY ROOM**  
 SCALE ----- 1/4"=1'-0"

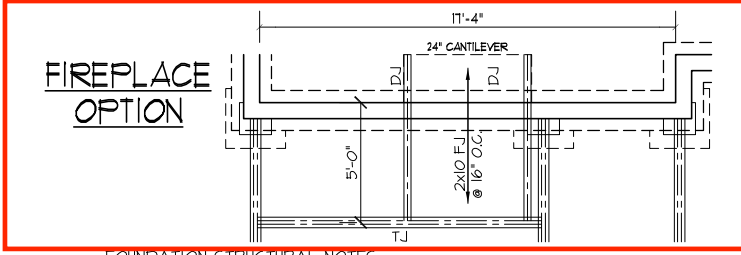
895 HTD. SQ. FT.  
 150 STORAGE SQ. FT.

NOTES:

- 1) 9'-0" CLG. HGT. (9' - 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED.
- 2) ALL WALLS FIGURED AT 4" WIDTHS UNLESS OTHERWISE NOTED.
- 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 OPNG'S.
- 6) ELECTRICAL BY BUILDER

WALL VENTED CRAWL SPACE	
REQUIRED	
1932	SQ. FT. / 50' = 13.32
	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 5 PINTS PER DAY. (R409.5.2) SUPPLY AIR	
1932	SQ. FT. / 30' = 68
(R409.5.3) HOUSE AIR	
1932	SQ. FT. / 50' = 40
(R409.5.4) EXHAUST FAN	
1932	SQ. FT. / 50' = 40
(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.	



- FOUNDATION STRUCTURAL NOTES**  
NC (2018 NCRS); Wind: 115-120 mph - CRAWL
- (3) 2x10 SYP#2 OR SPF#2 GIRDER, TYPICAL UNO.
  - 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 FOOTINGS, UNO.
  - WALL FOOTING AS FOLLOWS:
 

DEPTH:	WIDTH:
8" - UP TO 2 STORY	16" - UP TO 2 STORY
10" - 3 STORY	20" - 3 STORY
	16" - 1 STORY
	20" - 2 STORY
	24" - 3 STORY
  - FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO CODE TABLE R404.1.1 (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
  - (2) 1.75x9.25 LVL OR LSL GIRDER
  - (3) 1.75x9.25 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 FND, TYPICAL.
  - ABBREVIATIONS:
    - "SJ" = SINGLE JOIST
    - "DJ" = DOUBLE JOIST
    - "TJ" = TRIPLE JOIST
  - ADJUST SUBFLOOR THICKNESS OR JOIST SPACING AS REQ'D FOR FLOOR FINISH MATERIALS.

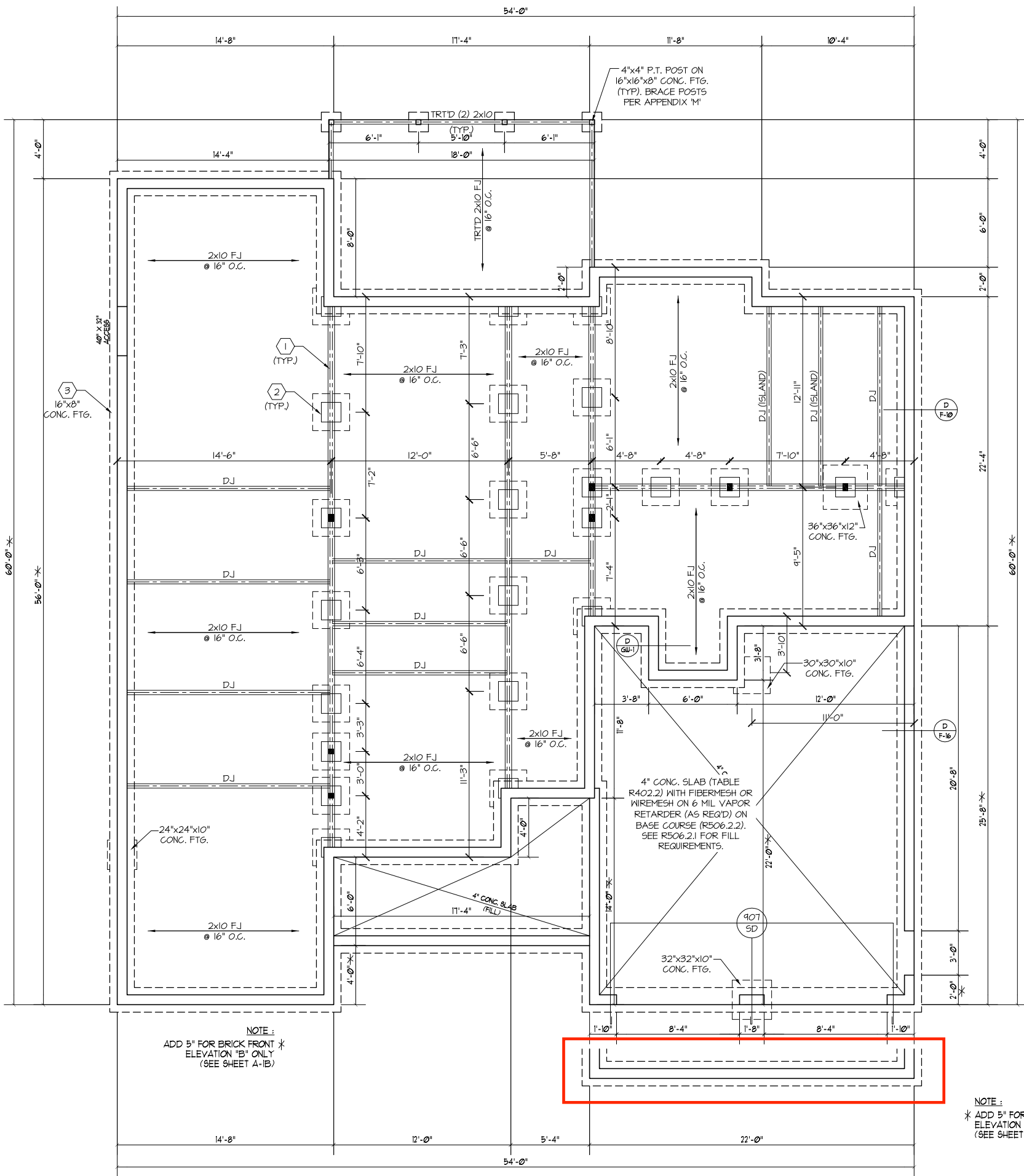
STRUCTURAL DESIGN BY:  
SOUTHERN ENGINEERS, P.A.  
3716 BENSON DRIVE RALEIGH, NC 27609  
LICENSE: C-4772, PHONE: 919-878-1617  
PROJECT #: 21-2821-GL

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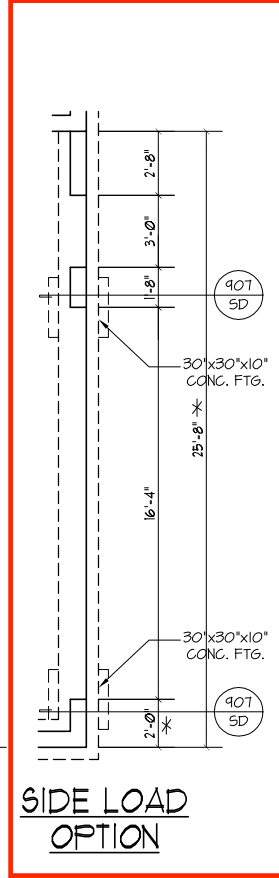
**CRAWLSPACE FOUNDATION PLAN WITH SECOND FLOOR**  
SCALE: 1/8"=1'-0"

- NOTES:
- SEE SHEET D-1 FOR DETAILS.
  - DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.



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

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



SIDE LOAD OPTION



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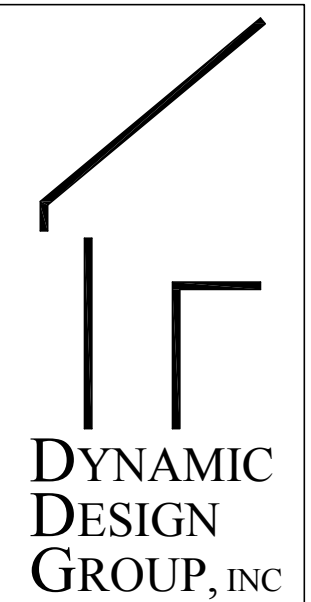
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PROJECT FOR: HOMES  
LOCATION: MULTI  
LOT: MULTI  
SUBDIVISION: MULTI  
COUNTY: MULTI

**RILEY**  
PLAN NAME  
A-1977-54GR 6-8-21  
DATE  
PLAN I.D.

**S-1**  
SHEET

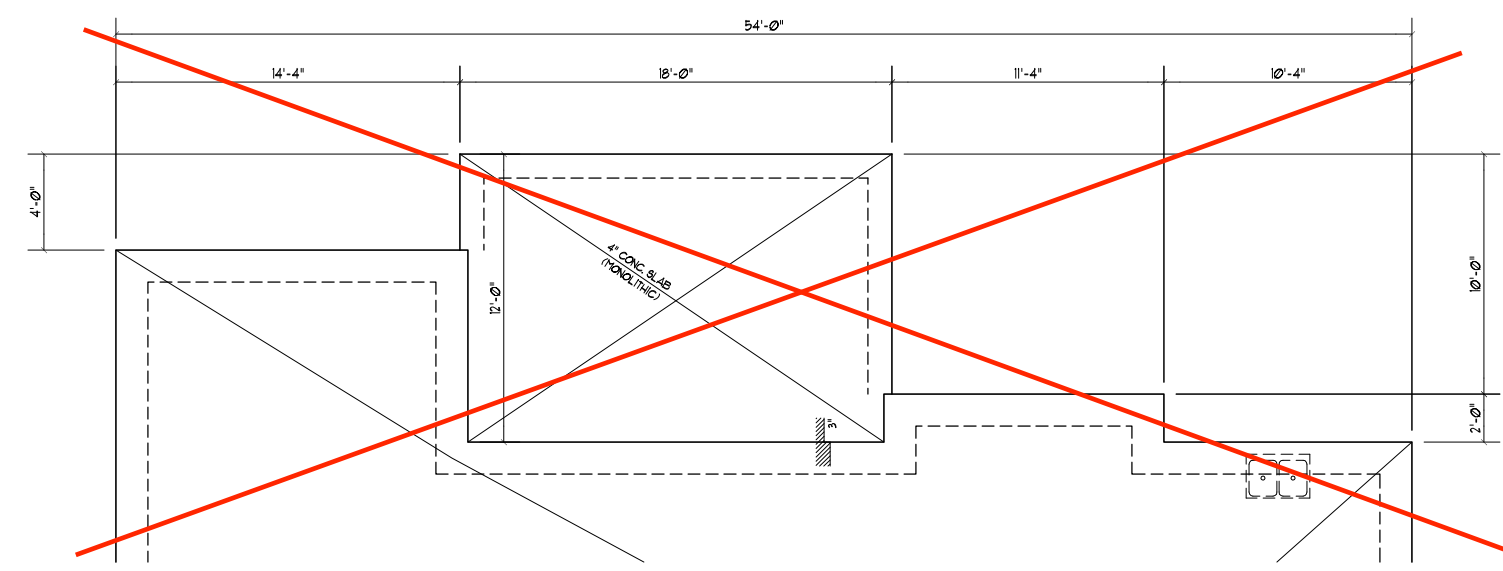


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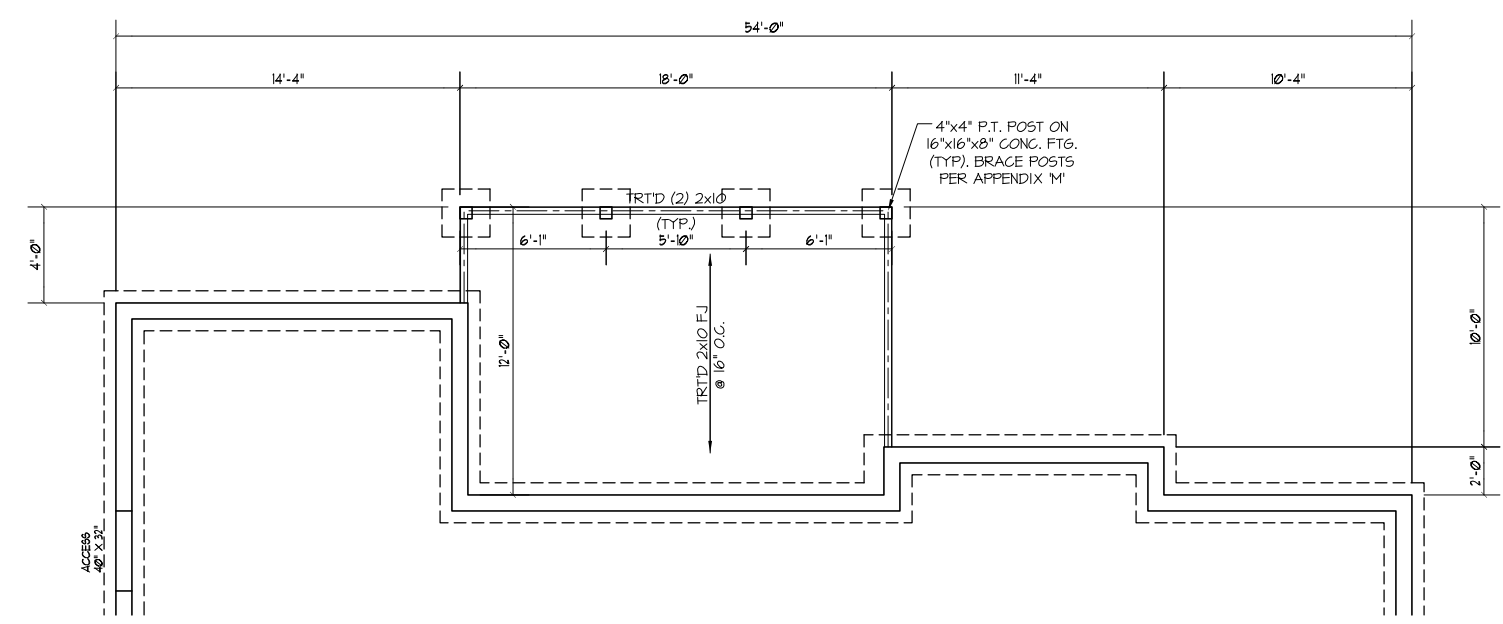
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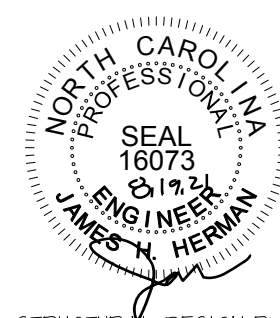
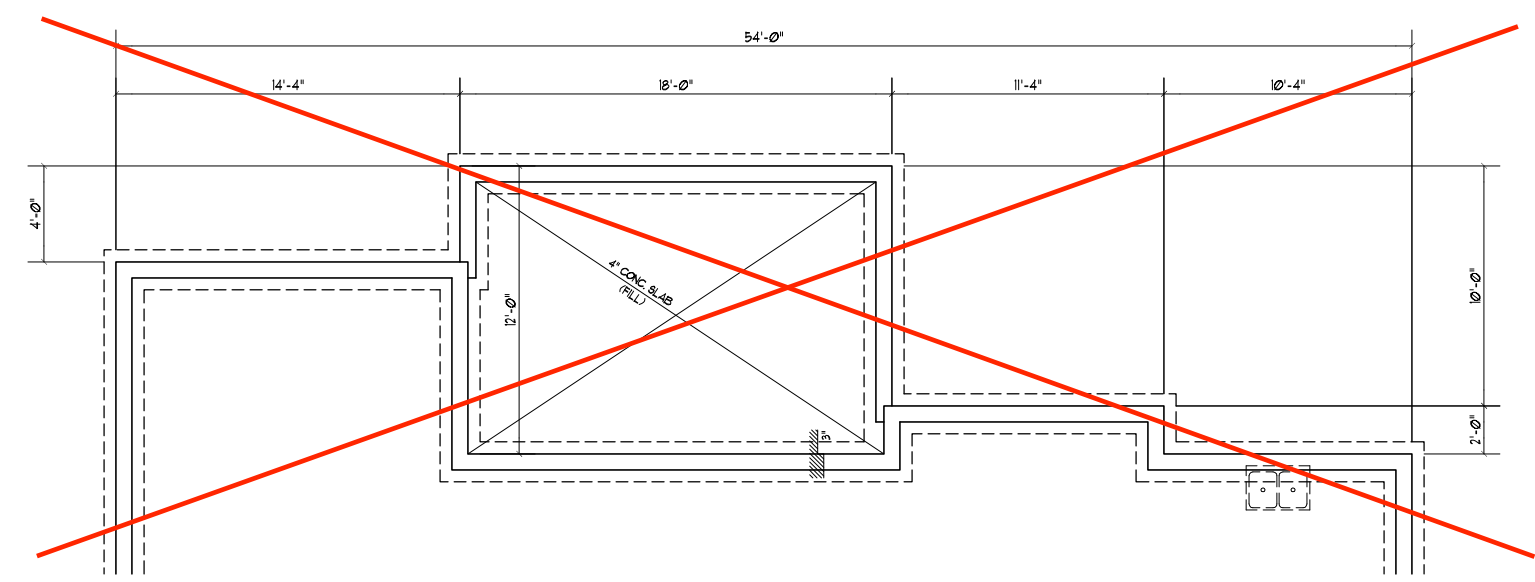
MONOLITHIC SLAB FOUNDATION PLAN



CRAWLSPACE FOUNDATION PLAN



STEM WALL WITH SLAB FOUNDATION PLAN



STRUCTURAL DESIGN BY:  
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 3716 BENSON DRIVE RALEIGH, NC 27609  
 LICENSE: C-4772, PHONE: 919-878-1617  
 PROJECT #: 21-2821-GR

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**OPTIONAL COVERED PORCH FOUNDATION PLANS**  
 SCALE: ----- 1/8"=1'-0"

- NOTES:  
 1) SEE SHEET D-1 FOR DETAILS.  
 2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.

**RILEY**  
 PLAN NAME  
 A-1977-54GR  
 PLAN I.D.  
 8-12-21  
 DATE  
**S-1** COVERED PORCH OPTION SHEET

**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 SFF #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.



**HEADER/BEAM & COLUMN NOTES**

1. 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.
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 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

**LVL CONNECTION LEGEND**

1. (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.
2. (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.
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".

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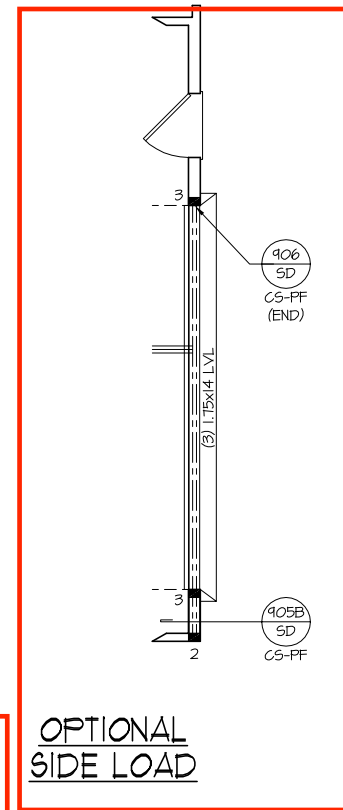
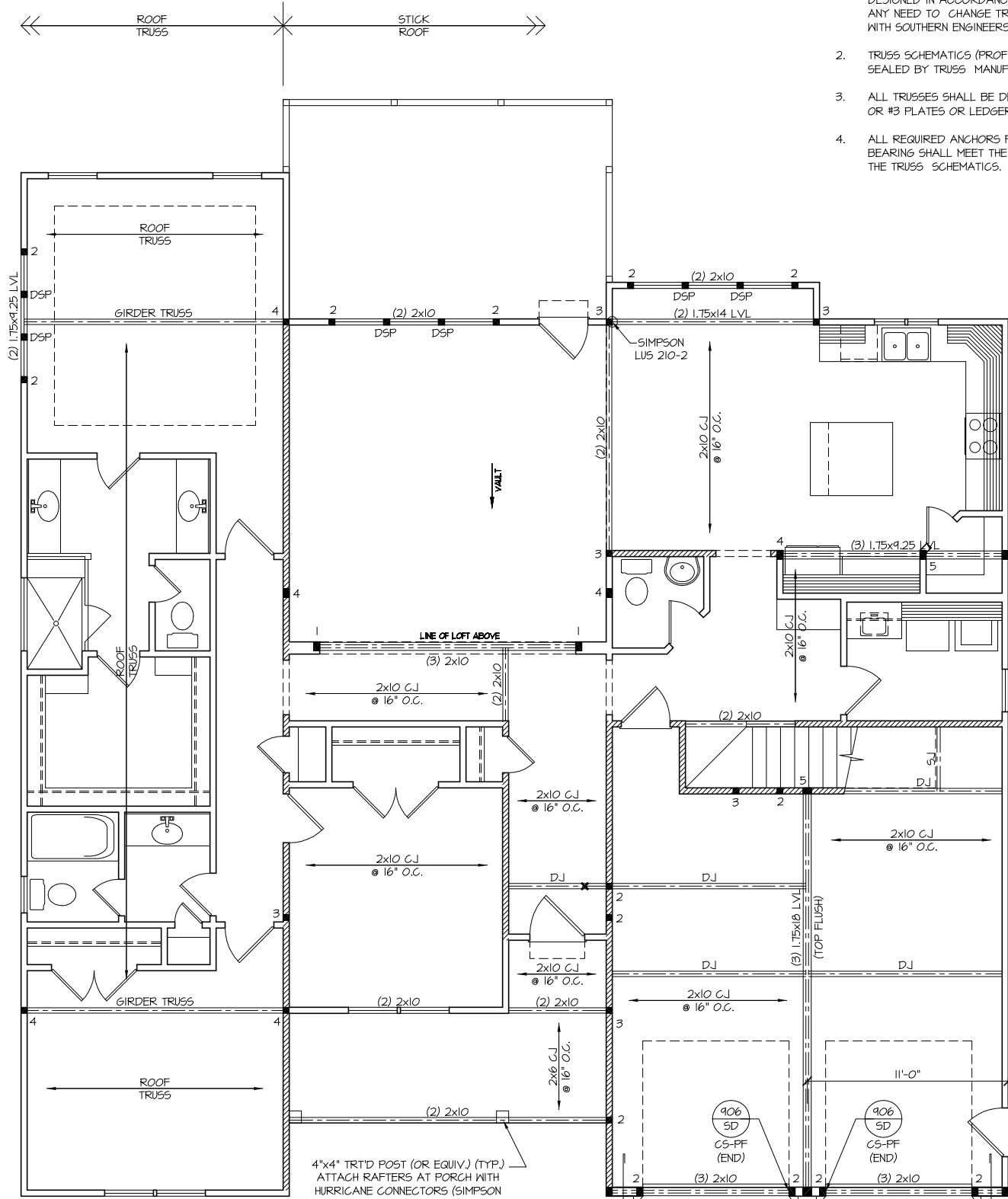
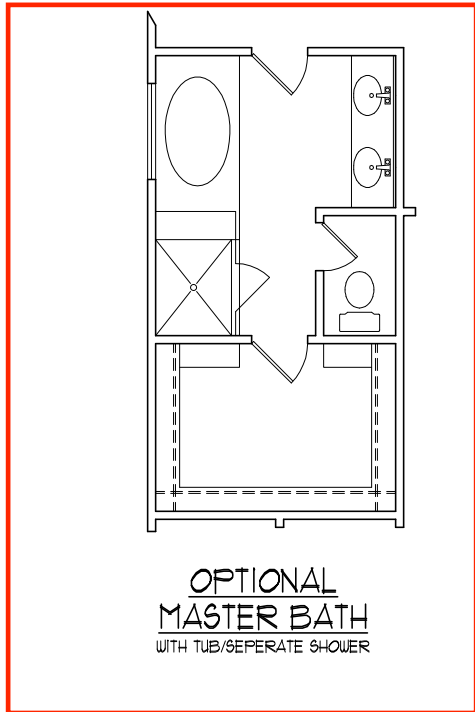
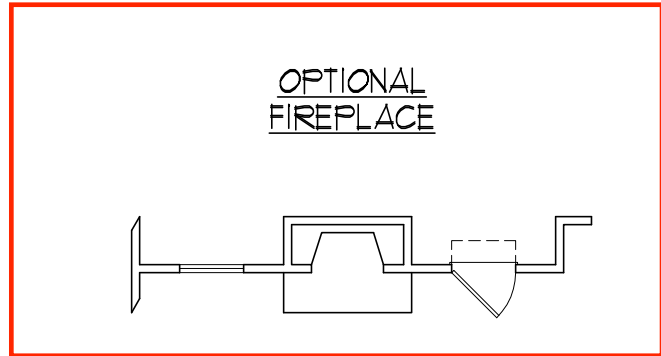
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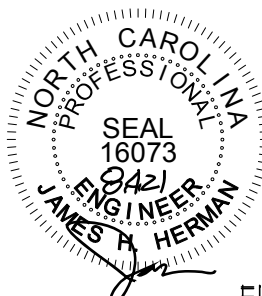
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**RILEY**  
PLAN NAME  
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6-8-21  
DATE

**S-2C**  
SHEET



4"x4" TRTD POST (OR EQUIV.) (TYP.)  
ATTACH RAFTERS AT PORCH WITH HURRICANE CONNECTORS (SIMPSON H2.5A OR EQUIV.) ATTACH HEADER TO POST AND POST TO BASE WITH A POST CAP OR METAL STRAP(S) OR BRACKET(S), AND/OR A POST BASE.

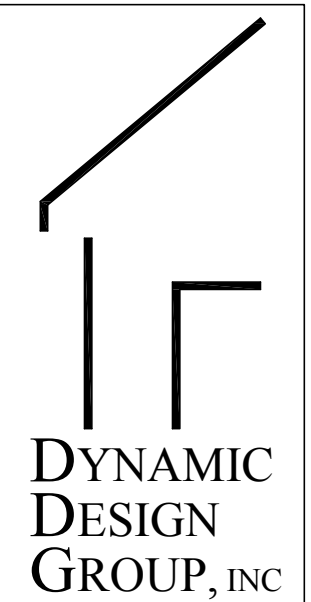


**ELEVATION "C"**  
**FIRST FLOOR CEILING /**  
**STRUCTURAL PLAN**  
**WITH OPT. BEDROOM #4 / LOFT**  
**OPEN TO FAMILY ROOM**  
SCALE: ..... 1/4" = 1'-0"

1) SHADED WALLS DENOTE LOAD BEARING WALLS.  
2) DENOTES SOLID STUDS.

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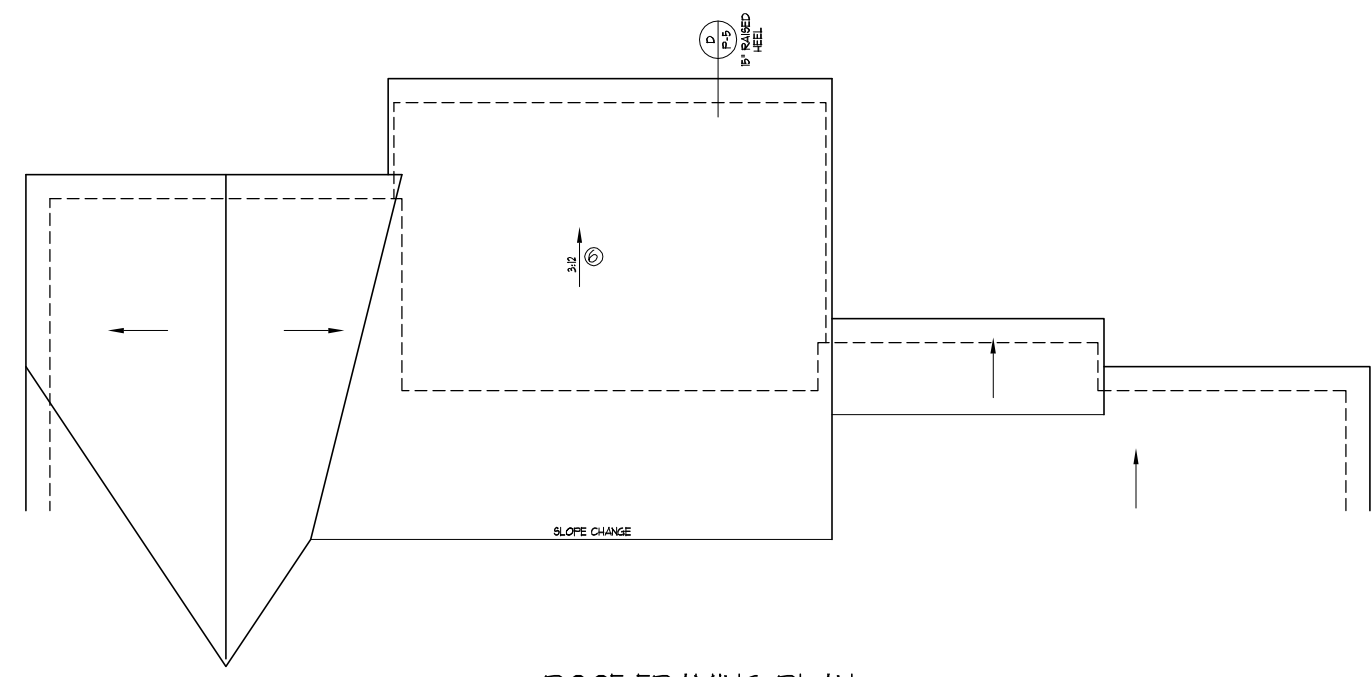
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HEADER/BEAM & COLUMN NOTES

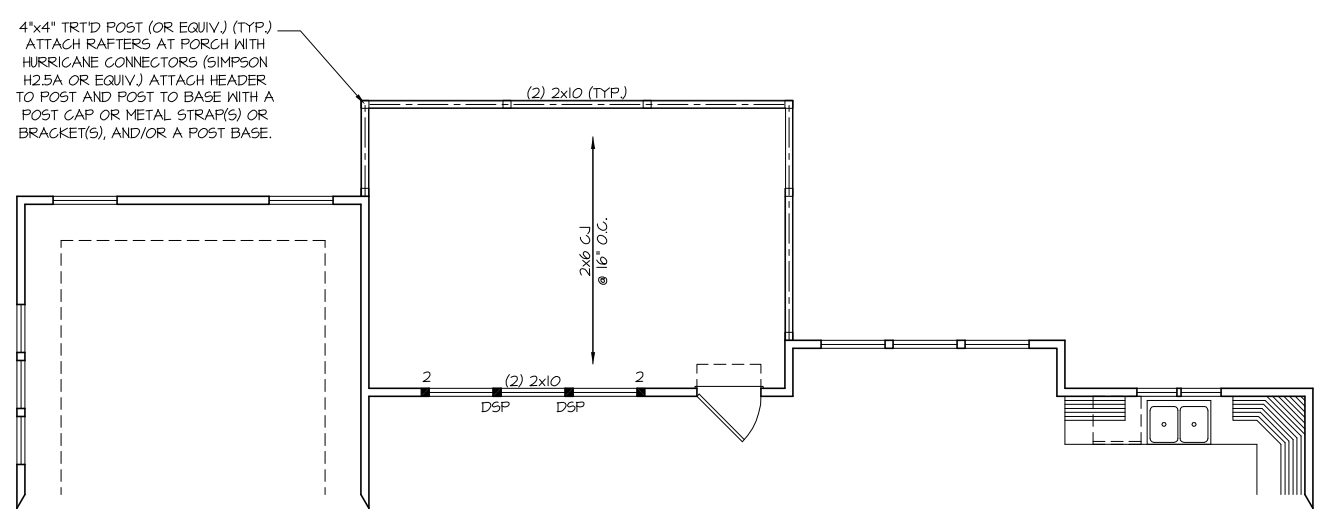
- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x10 (4" WALL) OR (3)2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW PER NCDOI 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

ROOF FRAMING NOTES:

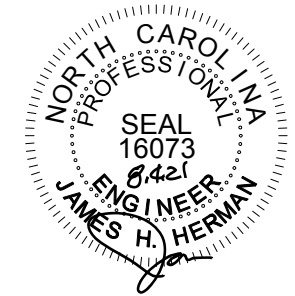
- NC (2018 NRC): Wind: 115-120 mph
- 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
  - (2) 2x10 OR 1.75x1.875 LVL HIP. (2) 2x10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
  - (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
  - 1.75x1.875 LVL OR (2)1.75x9.25 LVL VALLEY
  - FALSE FRAME VALLEY ON 2x10 FLAT PLATE
  - 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
  - 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
  - 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 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 R602.3.1 OF THE 2018 NC RESIDENTIAL CODE.



ROOF FRAMING PLAN



CEILING / STRUCTURAL PLAN



STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3716 BENSON DRIVE RALEIGH, NC 27609  
 LICENSE: C-4772, PHONE: 919-878-1617  
 PROJECT #: 21-2821-GL

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- Seal is valid for a project permitted within one year from date of seal.
- Use of these plans constitutes approval of terms and conditions as defined in the customer agreement.
- REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES.

COVERED PORCH OPTION  
 SCALE: ----- 1/8" = 1'-0"

- NOTES:
- SHADED WALLS DENOTE LOAD BEARING WALLS.
  - DENOTES SOLID STUDS.

**RILEY**  
 PLAN NAME  
**A-1977-54GR**  
 PLAN I.D.  
**6-8-21**  
 DATE

**S-2** COVERED PORCH OPTION SHEET



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

**RILEY**  
 PLAN NAME  
**A-1977-54GR**  
 PLAN I.D.  
**6-8-21**  
 DATE

**S-3C**  
 SHEET

LVL CONNECTION LEGEND

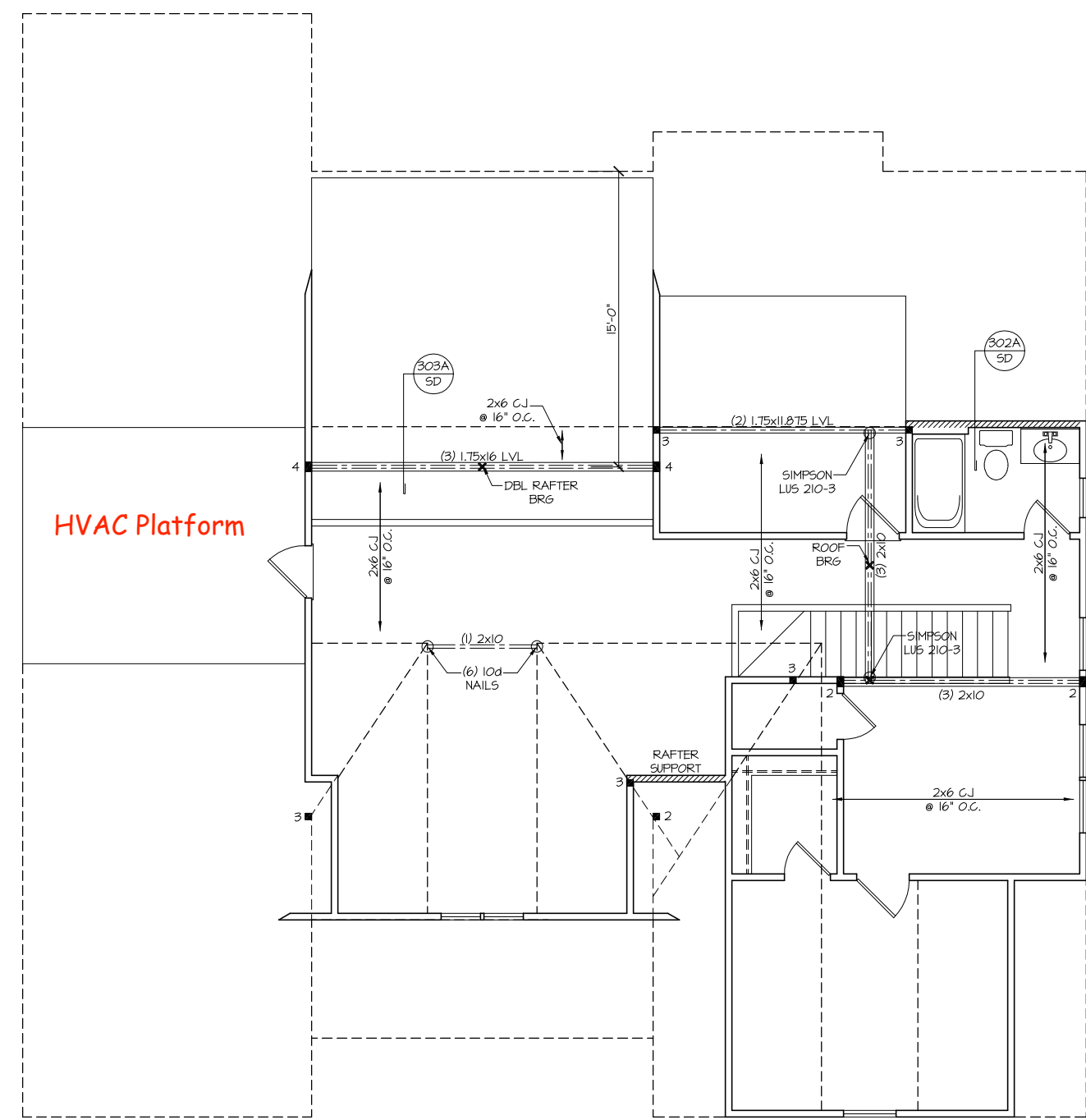
- (2) PLY 1.75" LVL BEAMS:  
 • (3) ROWS OF 10d NAILS @ 12" O.C. OR  
 • (2) ROWS OF SIMPSON SDW22330 (OR EQUAL) SCREWS @ 16" O.C.
- (3) PLY 1.75" LVL BEAMS:  
 • (3) ROWS OF 10d NAILS @ 8" O.C. ON EACH SIDE OR  
 • (2) ROWS OF SIMPSON SDW22500 (OR EQUAL) SCREWS @ 16" O.C.
- (4) PLY 1.75" LVL BEAMS:  
 • (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".

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 NCDOL 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

TRUSS SYSTEM REQUIREMENTS

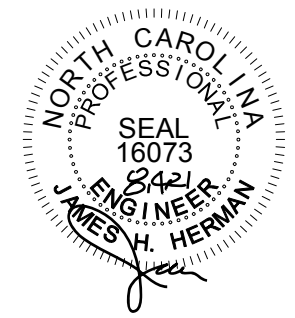
- NC (2018 NCR): Wind: 115-120 mph
- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
  - TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
  - ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
  - ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.



**ELEVATION "C"**  
**SECOND FLOOR CEILING/  
 STRUCTURAL PLAN**  
**WITH OPT. BEDROOM #4 / LOFT  
 OPEN TO FAMILY ROOM**  
 SCALE ----- 1/4"=1'-0"

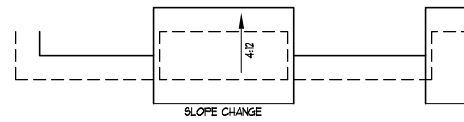
NOTES:  
 1) SHADED WALLS DENOTE LOAD BEARING WALLS.  
 2) ■ DENOTES SOLID STUDS.

STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3716 BENSON DRIVE RALEIGH, NC 27609  
 LICENSE: C-4772, PHONE: 919-878-1617  
 PROJECT #: 21-2821-GL



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ATTIC VENTILATION			
REQUIRED	$2663 \text{ SQ. FT. OF ATTIC} / 300 = 888 \text{ SQ. FT. OF INLET \& OUTLET}$		
PROVIDED (INLET)	$27 \text{ SQ. FT. PER} \times 88 \text{ LINEAR FT.} = 6.16 \text{ SQ. FT. OF VENT.}$	$47 \%$	(TOTAL OF INLET)
PROVIDED (OUTLET)	$11 \text{ SQ. FT. PER} \times 64 \text{ LINEAR FT.} = 7.04 \text{ SQ. FT. OF VENT.}$	$53 \%$	(TOTAL OF OUTLET)
		<b>13.20</b>	TOTAL SQ. FT. OF VENT.



**ROOF FRAMING NOTES:**

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

- 2x8 RAFTERS @ 16" O.C. WITH 2x10 RIDGE, UNO.
- (2) 2x10 OR 1.75x11.875 LVL HIP. (2) 2x10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER.
- (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS.
- 1.75x11.875 LVL OR (2) 1.75x9.25 LVL VALLEY.
- FALSE FRAME VALLEY ON 2x10 FLAT PLATE.
- 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
- 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
- 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 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.

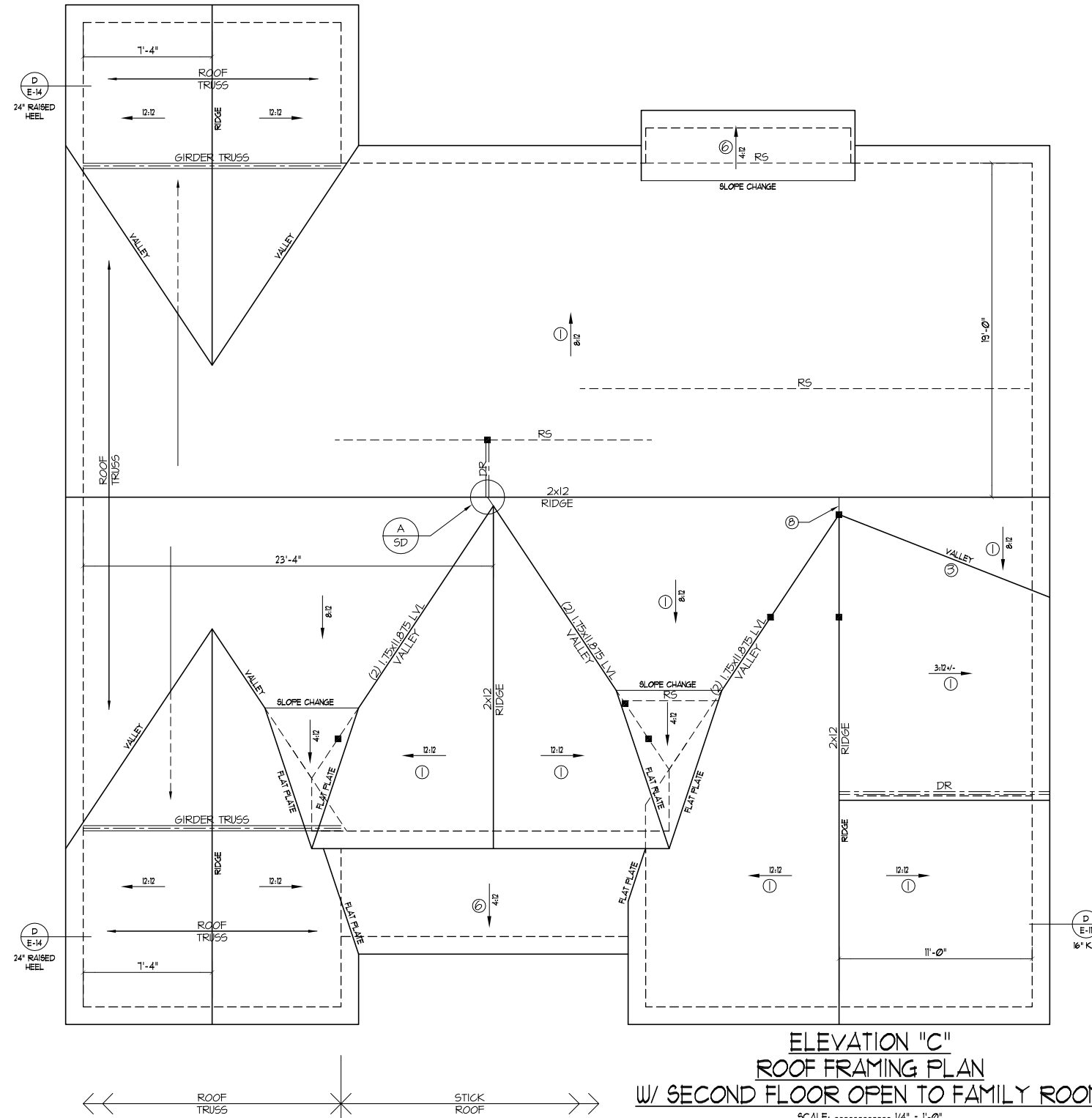
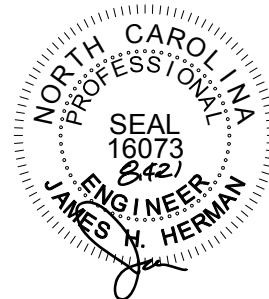
**TRUSS SYSTEM REQUIREMENTS**

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

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

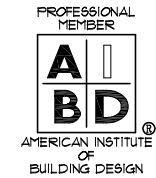
STRUCTURAL DESIGN BY:  
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**ELEVATION "C"**  
**ROOF FRAMING PLAN**  
**W/ SECOND FLOOR OPEN TO FAMILY ROOM**  
SCALE: ..... 1/4" = 1'-0"

- NOTES:
- SEE SHEET D-1 FOR DETAILS.
  - DIMENSIONS ARE FROM EXT. OF FRAMING TO CENTER LINE OF RIDGE.



**DYNAMIC DESIGN GROUP, INC**

David D Grorud  
(919) 601-1406  
DynamicDesignGroup@gmail.com  
www.DDGhomeplans.com

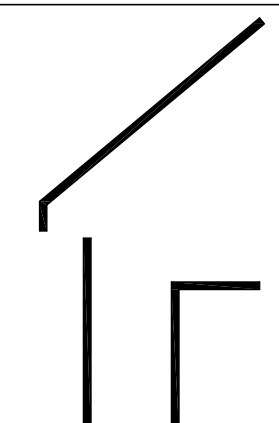
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KEN HARVEY  
PROJECT FOR: HOMES  
LOCATION: MULTI  
LOT: MULTI  
SUBDIVISION: MULTI  
COUNTY: MULTI

**RILEY**  
PLAN NAME  
**A-1977-54GR**  
PLAN I.D.  
**6-8-21**  
DATE

**S-4C**  
SHEET



# DYNAMIC DESIGN GROUP, INC

David D Grorud  
(919) 601-1406  
DynamicDesignGroup@gmail.com  
www.DDGhomeplans.com

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

# RILEY

PLAN NAME

A-1977-54GR 6-8-21

DATE

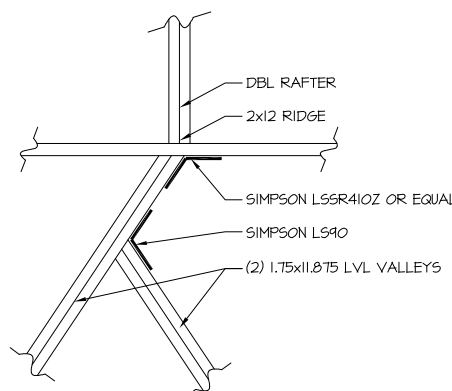
PLAN I.D.

# SD SHEET

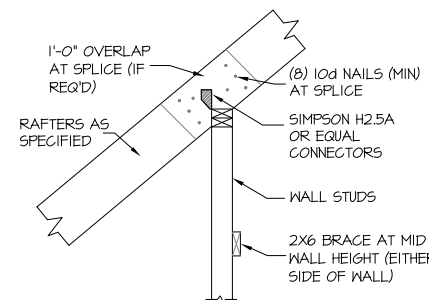
## STRUCTURAL NOTES

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 (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 (UNO). 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 1/4" (I.E. 4" CONCRETE SLABS SHALL HAVE 1" 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=1.9x10<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 R103.3 LINTELS.



A  
SD  
PLAN VIEW

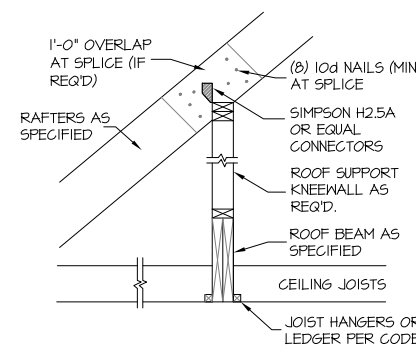


302A  
SD  
TYPICAL RAFTER SUPPORT ON ATTIC KNEEWALL  
NTS.

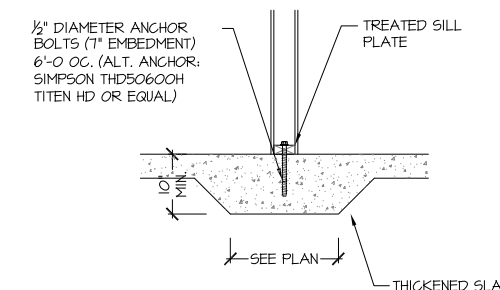
## FRAMING NOTES

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"/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 CS22 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/ (7) 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 3/8" 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' O.C. ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.



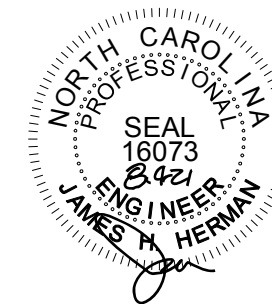
303A  
SD  
ROOF BEAM  
NTS.

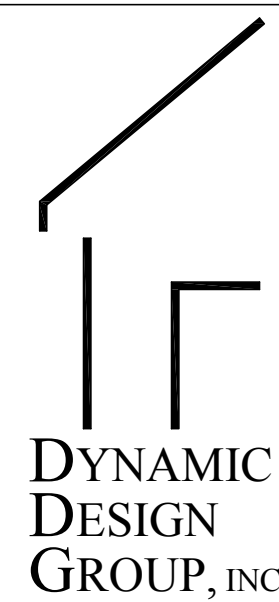


115-120 MPH 104A SD  
THICKENED SLAB (INTERIOR BEARING WALL)

STRUCTURAL DESIGN BY:  
SOUTHERN ENGINEERS, P.A.  
3716 BENSON DRIVE RALEIGH, NC 27609  
LICENSE: C-4772, PHONE: 919-878-1617  
PROJECT #: 21-2821-GL

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- Seal is valid for a project permitted within one year from date of seal.
- Use of these plans constitutes approval of terms and conditions as defined in the customer agreement.

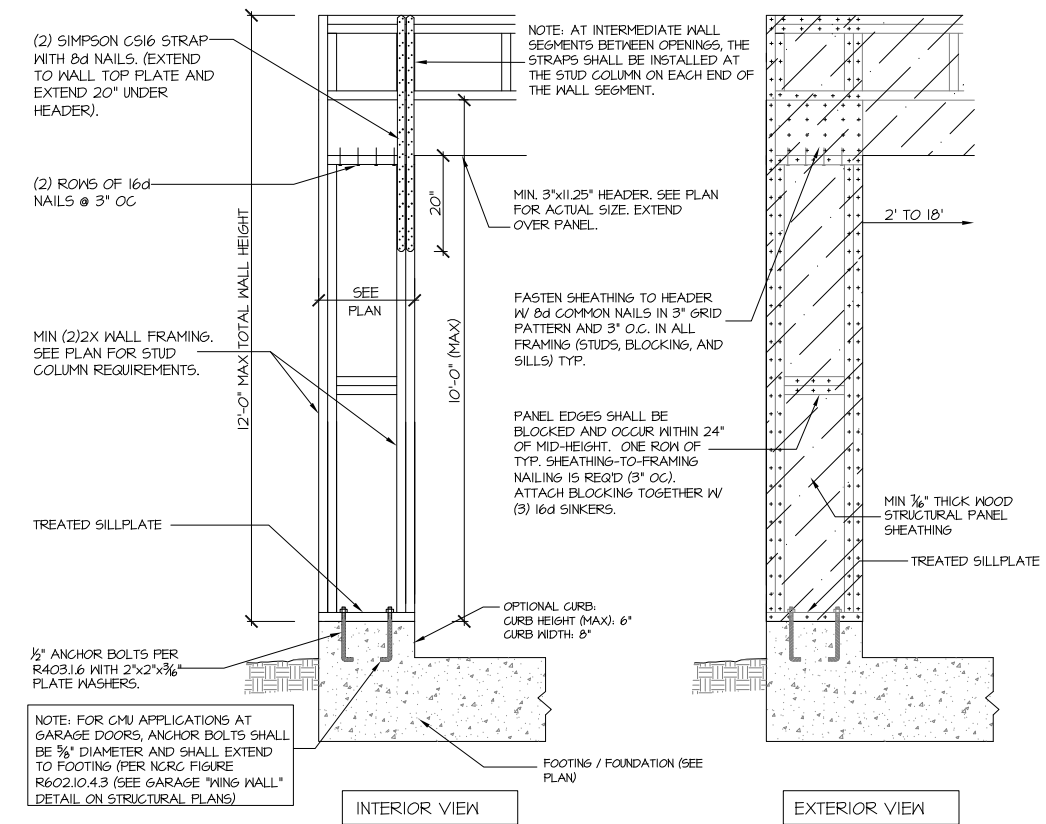




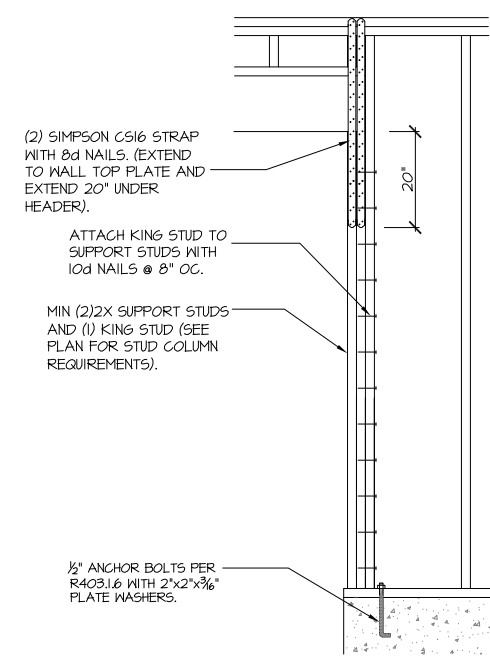
**DYNAMIC DESIGN GROUP, INC**  
 David D Grorud  
 (919) 601-1406  
[DynamicDesignGroup@gmail.com](mailto:DynamicDesignGroup@gmail.com)  
[www.DDGhomeplans.com](http://www.DDGhomeplans.com)

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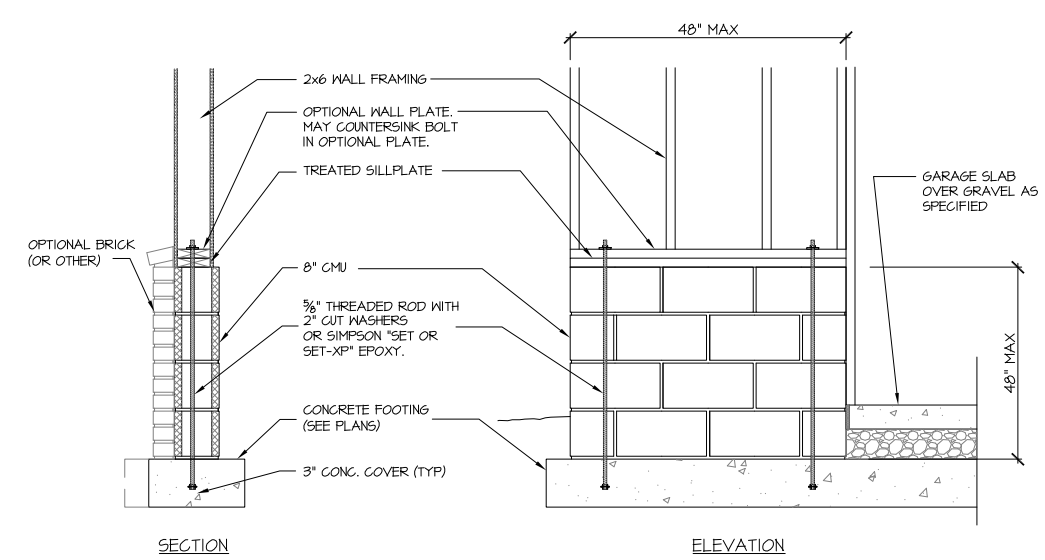
KEN HARVEY  
 PROJECT FOR: HOMES  
 LOCATION: MULTI  
 LOT: MULTI  
 SUBDIVISION: MULTI  
 COUNTY: MULTI



905B CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION  
 5D DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



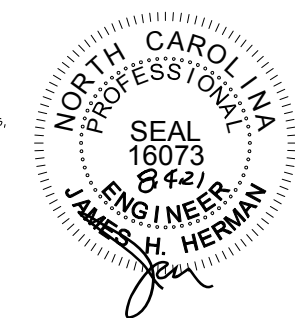
906 CS-PF: END CONDITION DETAIL  
 5D (FOR USE WITH SINGLE CS-PF CONDITION) DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



907 GARAGE "WING WALL" REINFORCING  
 5D PER IRC FIGURE R602.10.4.3

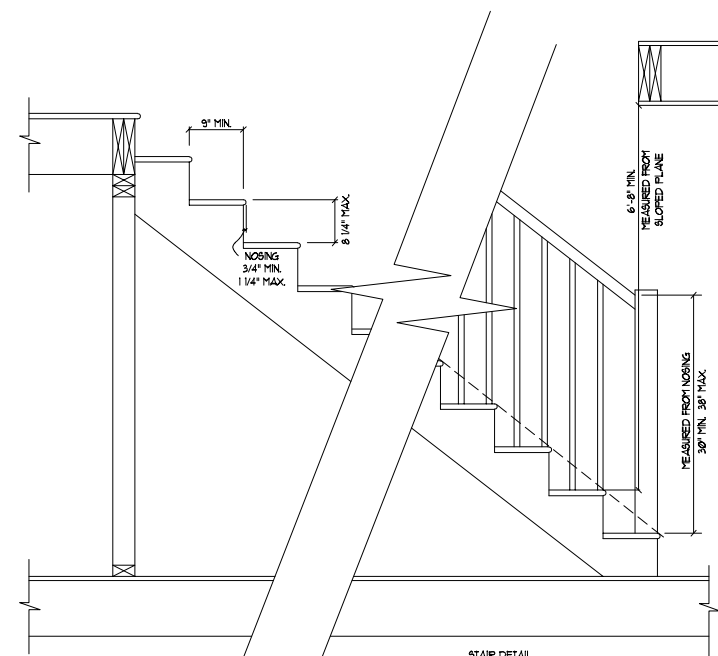
STRUCTURAL DESIGN BY:  
 SOUTHERN ENGINEERS, P.A.  
 3716 BENSON DRIVE RALEIGH, NC 27609  
 LICENSE: C-4772, PHONE: 919-878-1617  
 PROJECT #: 21-2821-GJ

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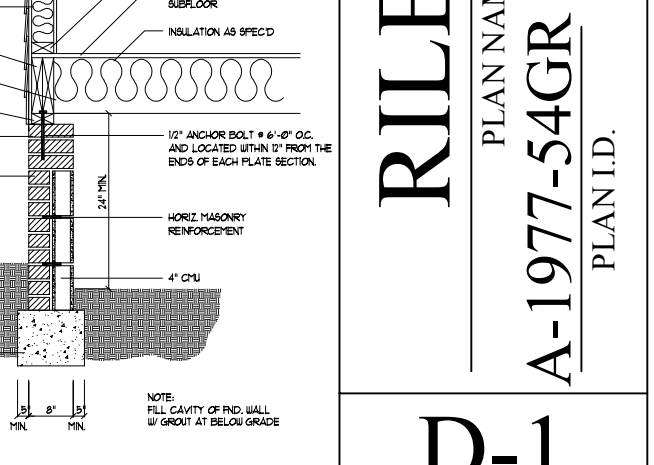
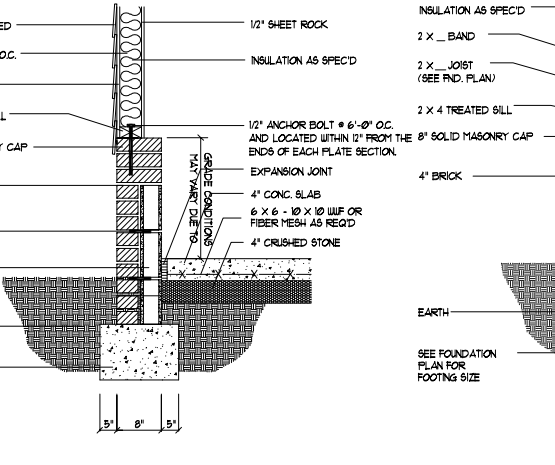
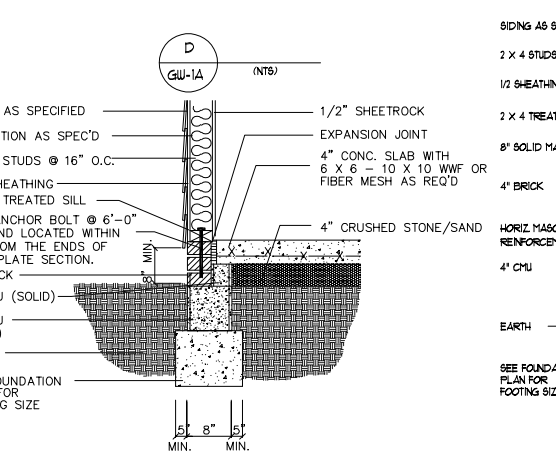
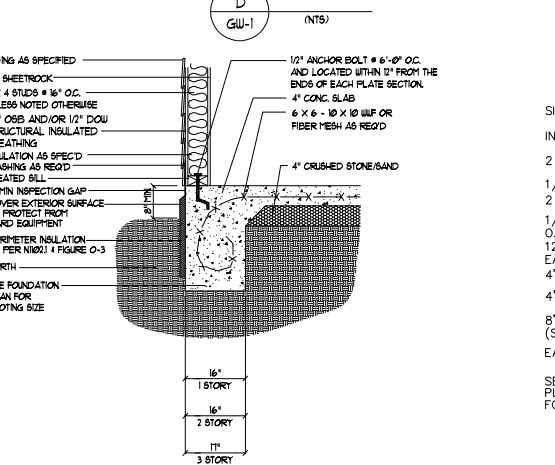
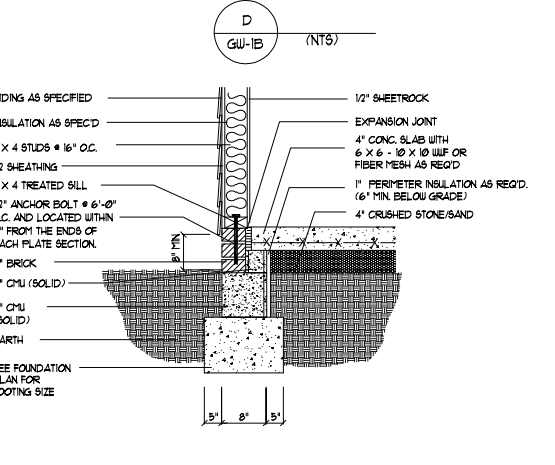
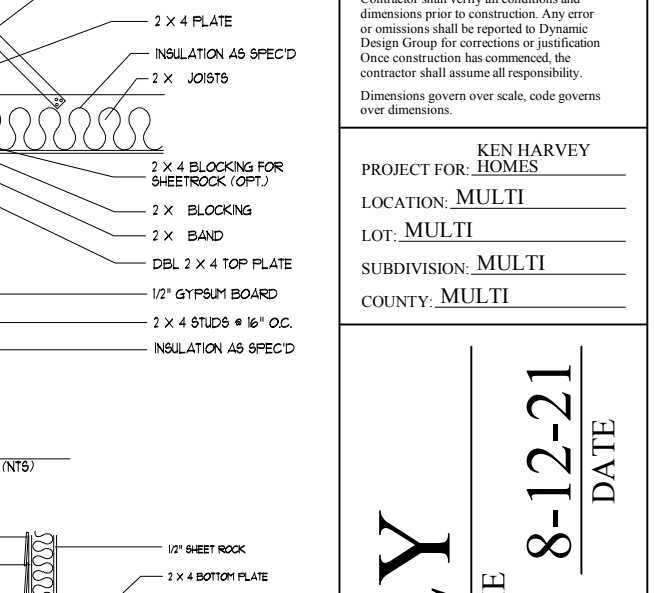
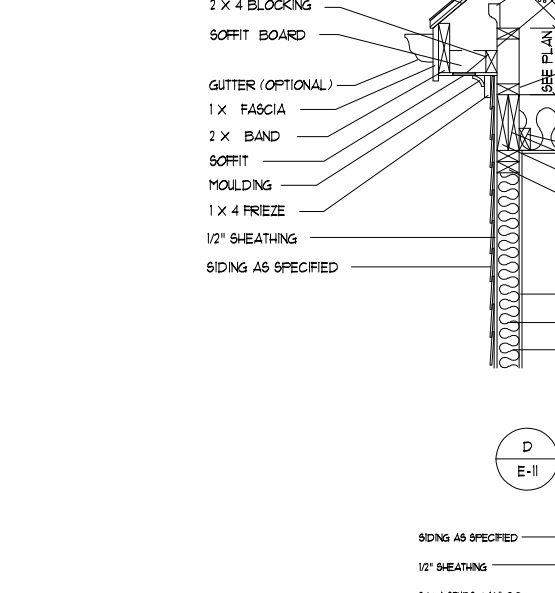
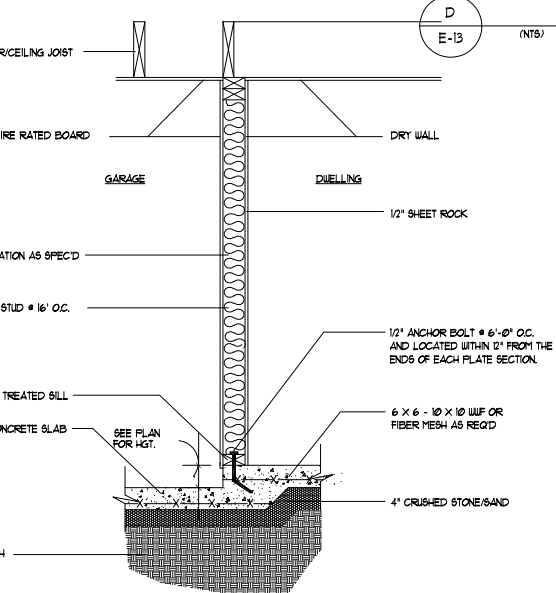
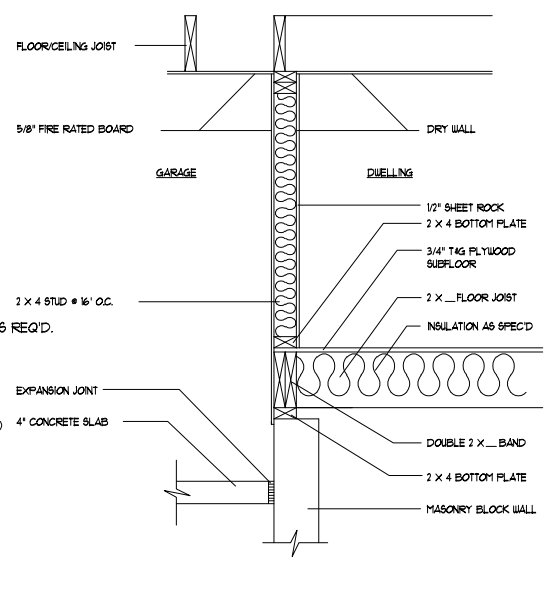
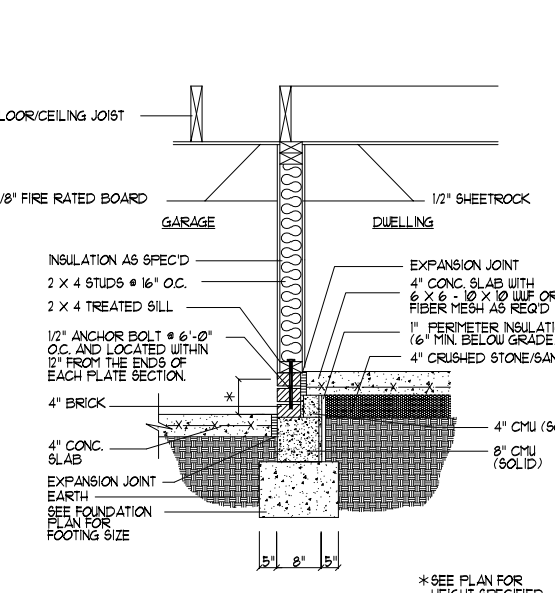
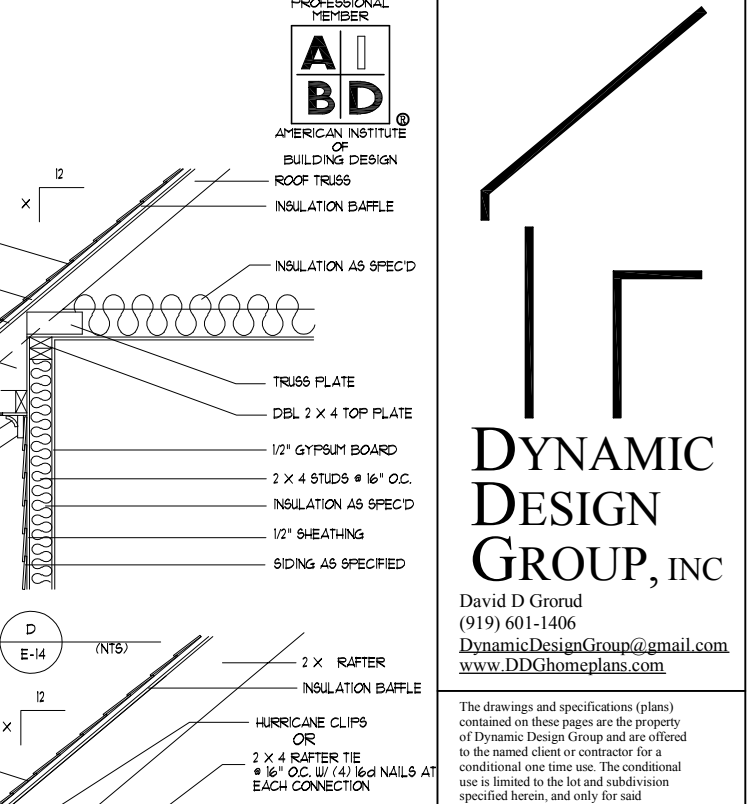
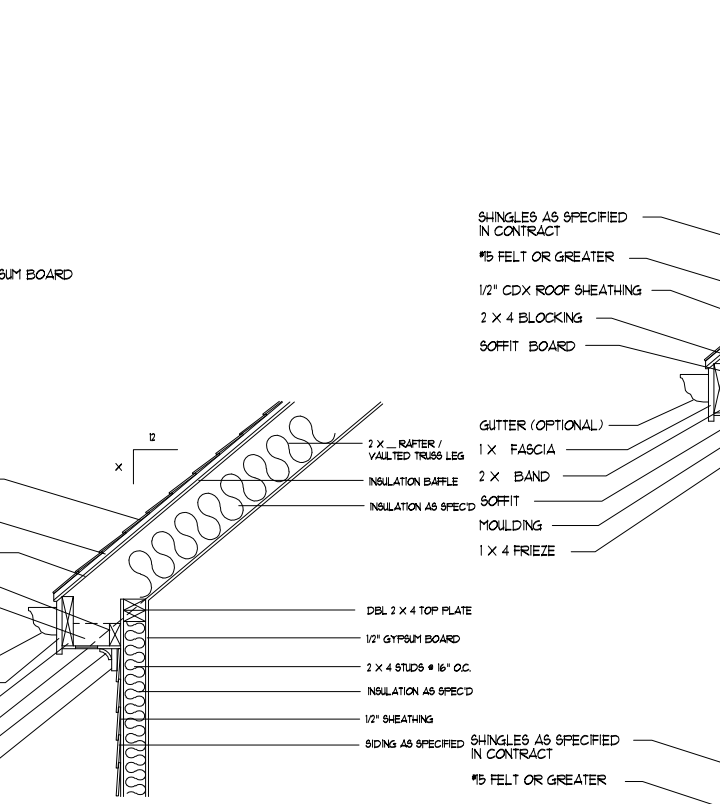
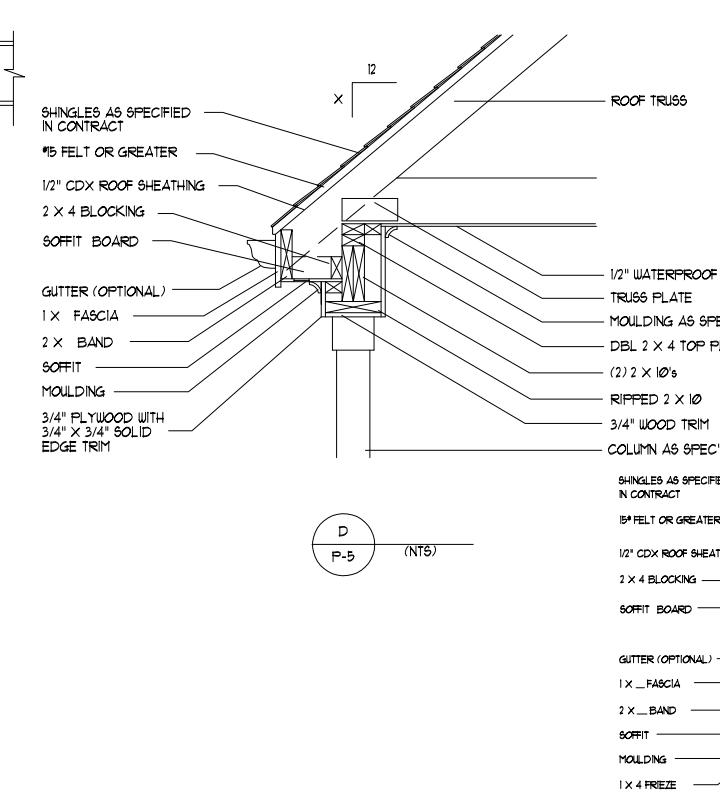


**RILEY**  
 PLAN NAME  
 A-1977-54GR  
 PLAN I.D.  
 6-8-21  
 DATE

**SD**  
 SHEET



**STAIR DETAIL (NTS)**  
 EACH TREAD AND RISER MUST BE UNIFORM. THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8\"/>



# DYNAMIC DESIGN GROUP, INC

David D Grorud  
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 DynamicDesignGroup@gmail.com  
 www.DDGhomeplans.com

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

**RILEY**  
 PLAN NAME  
**A-1977-54GR**  
 PLAN I.D.  
**8-12-21**  
 DATE

**D-1**  
 SHEET