

Crossing at Anderson Creek 215- 42 Kensington Dr. Spring Lake, 28390

Harnett County

Created: 7/21/2021

House Plan: Kessler

Elevation: B

Stone/Brick Option: #1

Foundation: Slab

Foundation Finish: 3 Sides Parged

Garage Hand: Left

Garage: 2 Car Front

Garage Door:(2) 8x8

Front Porch: Concrete

Roof: Truss

Siding: Vinyl

Ceiling Height 1st Floor: 9'

Ceiling Height 2nd Floor: 9'

Door Frame Height 1st Floor: 83"

Door Frame Height 2nd Floor: 83"

Windows 1st Floor: 6/0 Front, 5/0 rear/sides

Windows 2nd Floor: 5/0

OPTIONS

Covered Porch

Tray Ceiling in Master Bedroom

Total Heated Sq. Ft.: 2146

Total Unheated Sq. Ft.: 734

Total SQ FT: 2880

Bedrooms: 3 + Rec Room

Full Bathrooms: 2

Half Bathrooms: 1

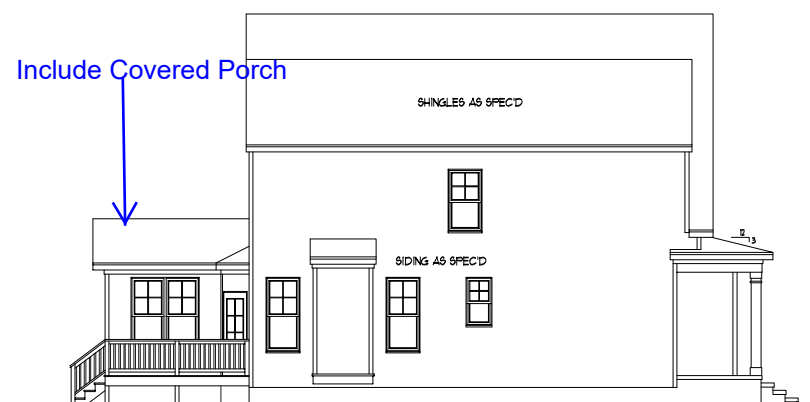


Brick/Stone Location
See MSS

FRONT ELEVATION "B"

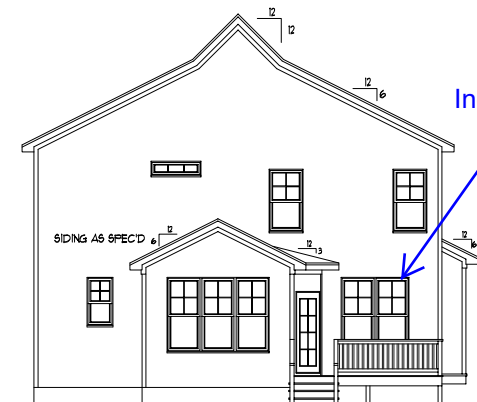
SCALE: ----- 1/8" = 1'-0"
HARDI FRONT

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



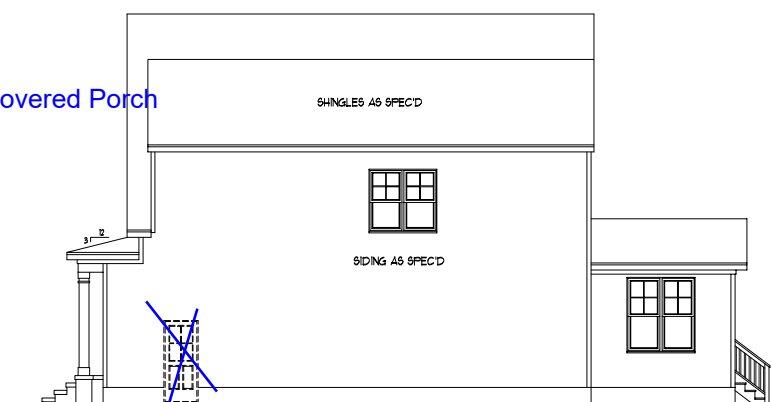
LEFT SIDE ELEVATION

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



REAR ELEVATION

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



RIGHT SIDE ELEVATION

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



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www.DDGhomeplans.com

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

KESSLER

PLAN NAME

C-2150-34GR

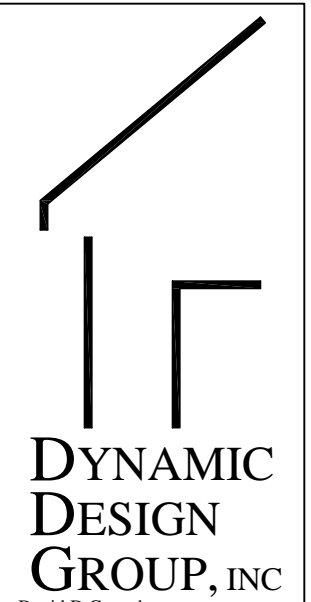
PLAN I.D.

11-04-19

DATE

A-1B

SHEET



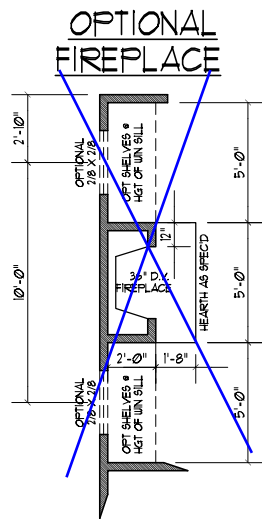
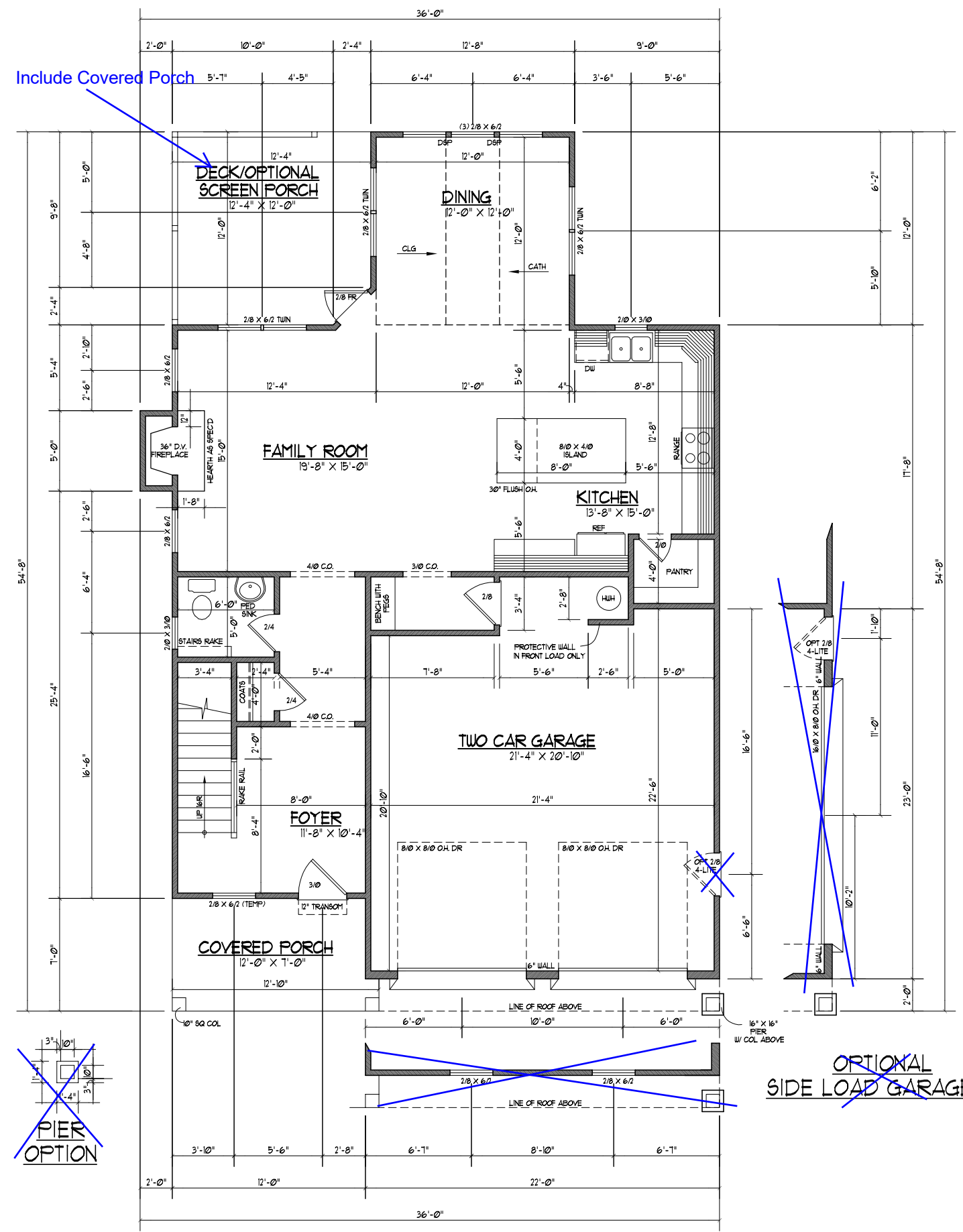
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C-2150-34GR 11-04-19 DATE
 PLAN I.D.

A-2B
 SHEET

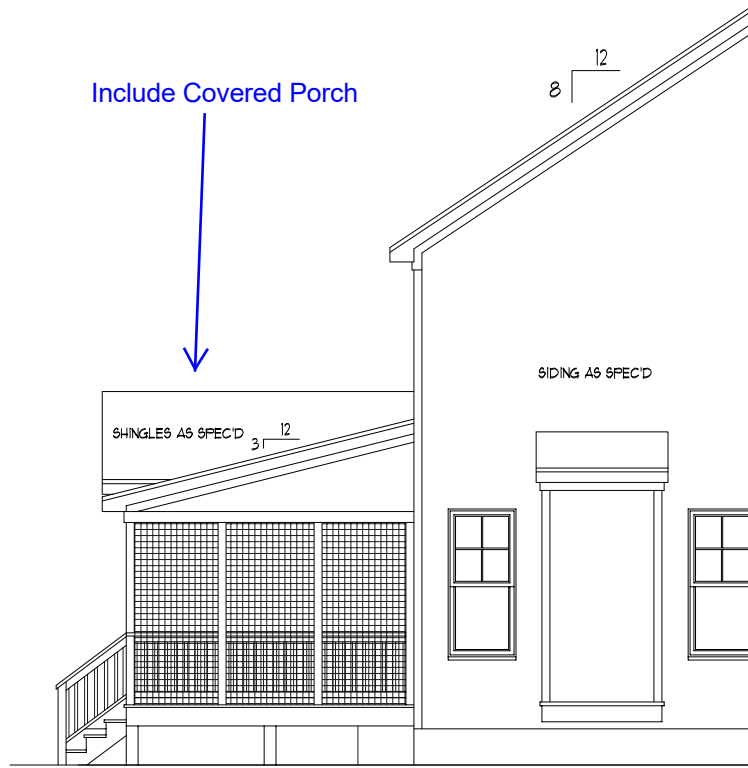


ELEVATION "B"
FIRST FLOOR PLAN
 SCALE: ----- 1/8" = 1'-0"

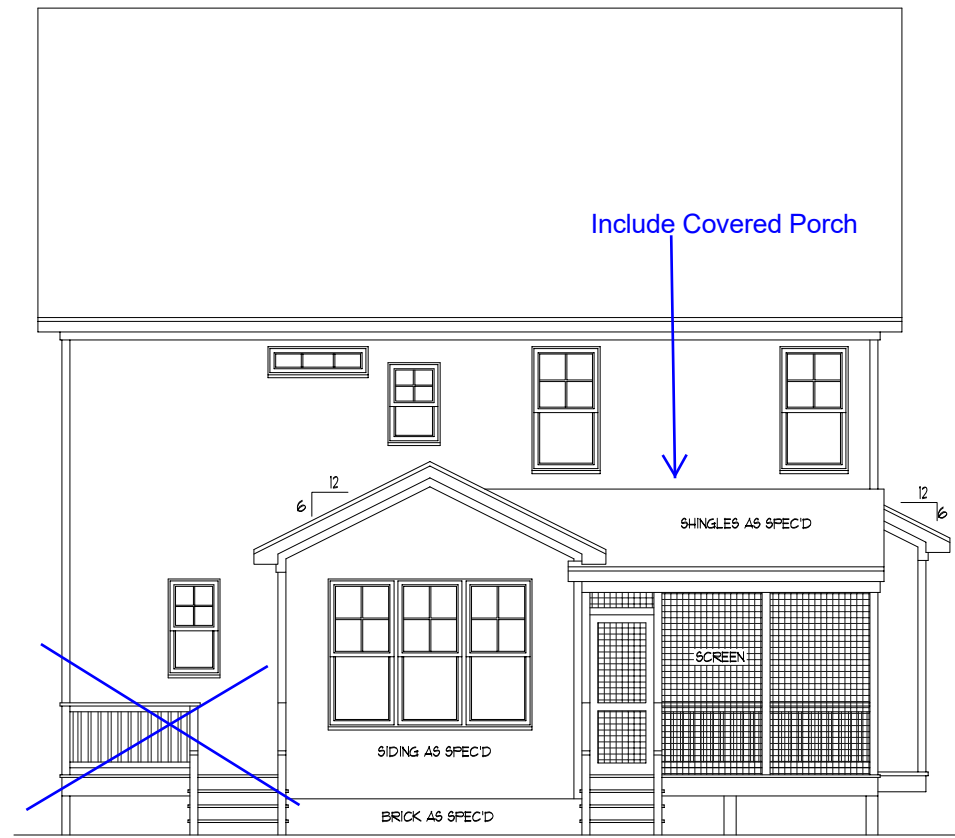
920	HEATED SQ. FT.
503	SQ. FT. GARAGE
86	SQ. FT. COVERED PORCH
145	SQ. FT. DECK/OPT. SCREEN PORCH
108	SQ. FT. OPTIONAL BBQ DECK

- NOTES:
- 9'-0" CLG. HGT. (9' - 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED.
 - ALL WALLS FIGURED AT 4" WIDTHS
 - SET WINDOWS AT 1'-10" A.S.F. UNLESS OTHERWISE NOTED.
 - DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
 - CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPENINGS.

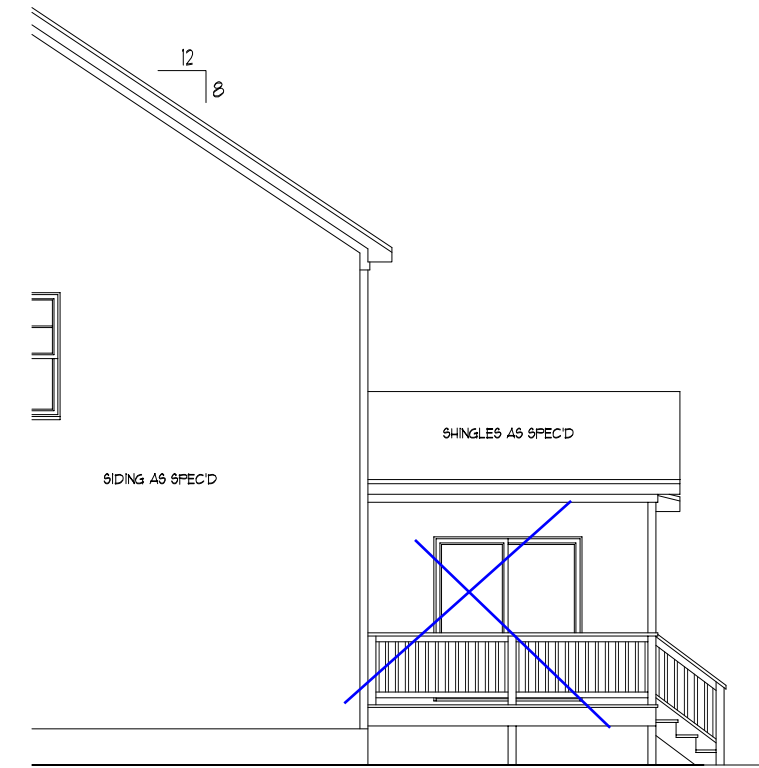
OPT SCREEN PORCH/BBQ DECK



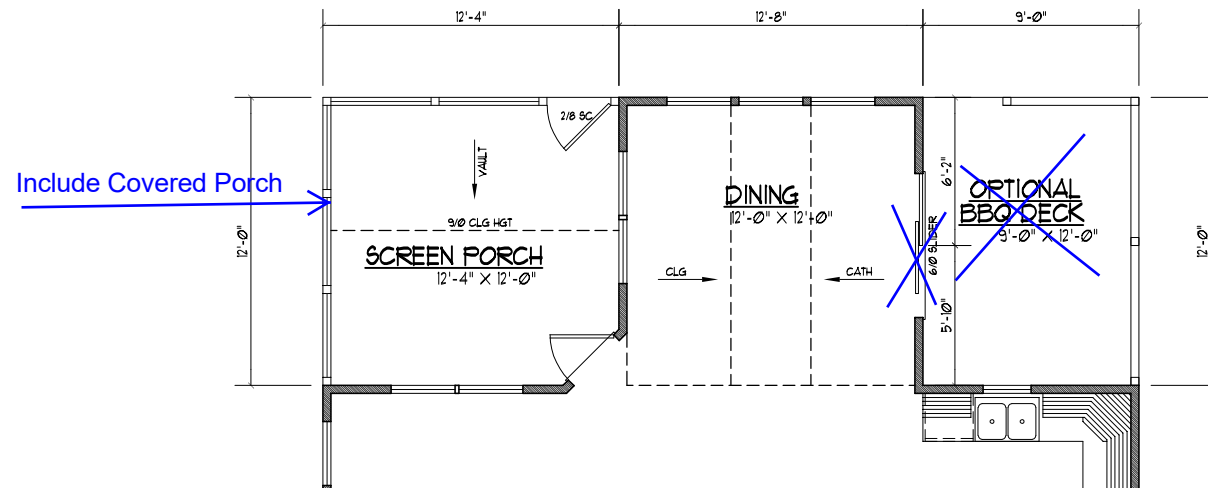
LEFT SIDE ELEVATION



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



RIGHT SIDE ELEVATION



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

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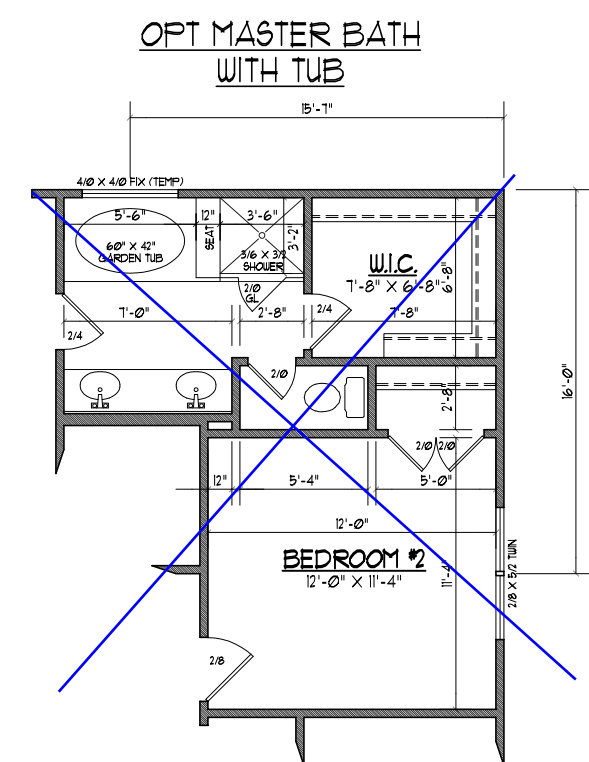
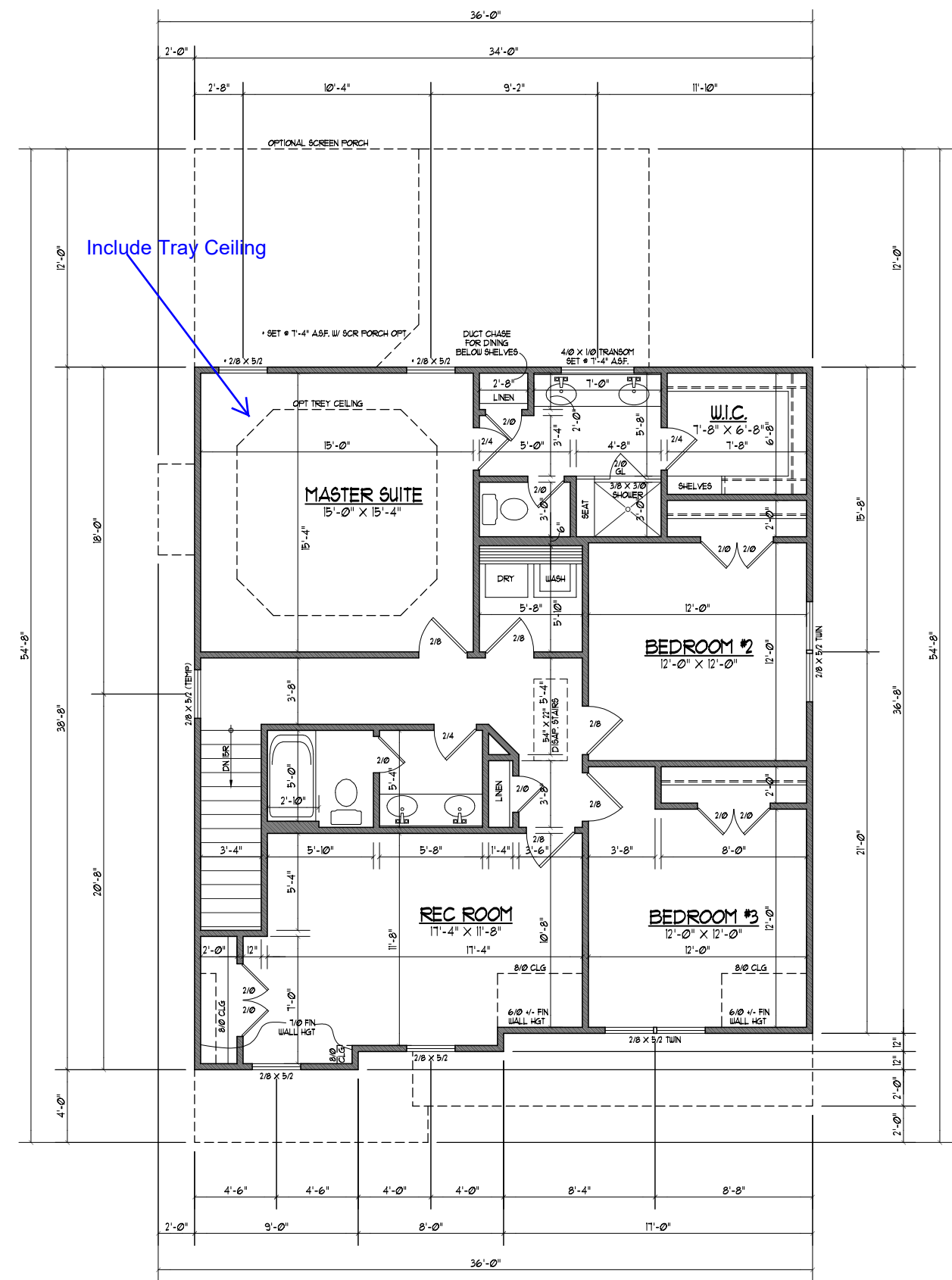
DATE

11-04-19

PLAN I.D.

A-2 SCR PORCH
/BBQ DECK
OPTIONS

SHEET



ELEVATION "C"
SECOND FLOOR PLAN
WITH REC ROOM
 SCALE ----- 1/8"=1'-0"

1225 HEATED SQ. FT.

OPTIONAL 9'-0" CEILING HEIGHT
 WITH WINDOWS SET @ 1'-4" A.S.F.

- NOTES:
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 - 2) ALL WALLS FIGURED AT 4" WIDTHS UNLESS OTHERWISE NOTED.
 - 3) SET WINDOWS AT 6'-8" A.S.F. UNLESS OTHERWISE NOTED.
 - 4) DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.
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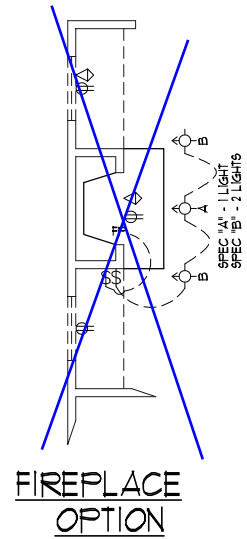
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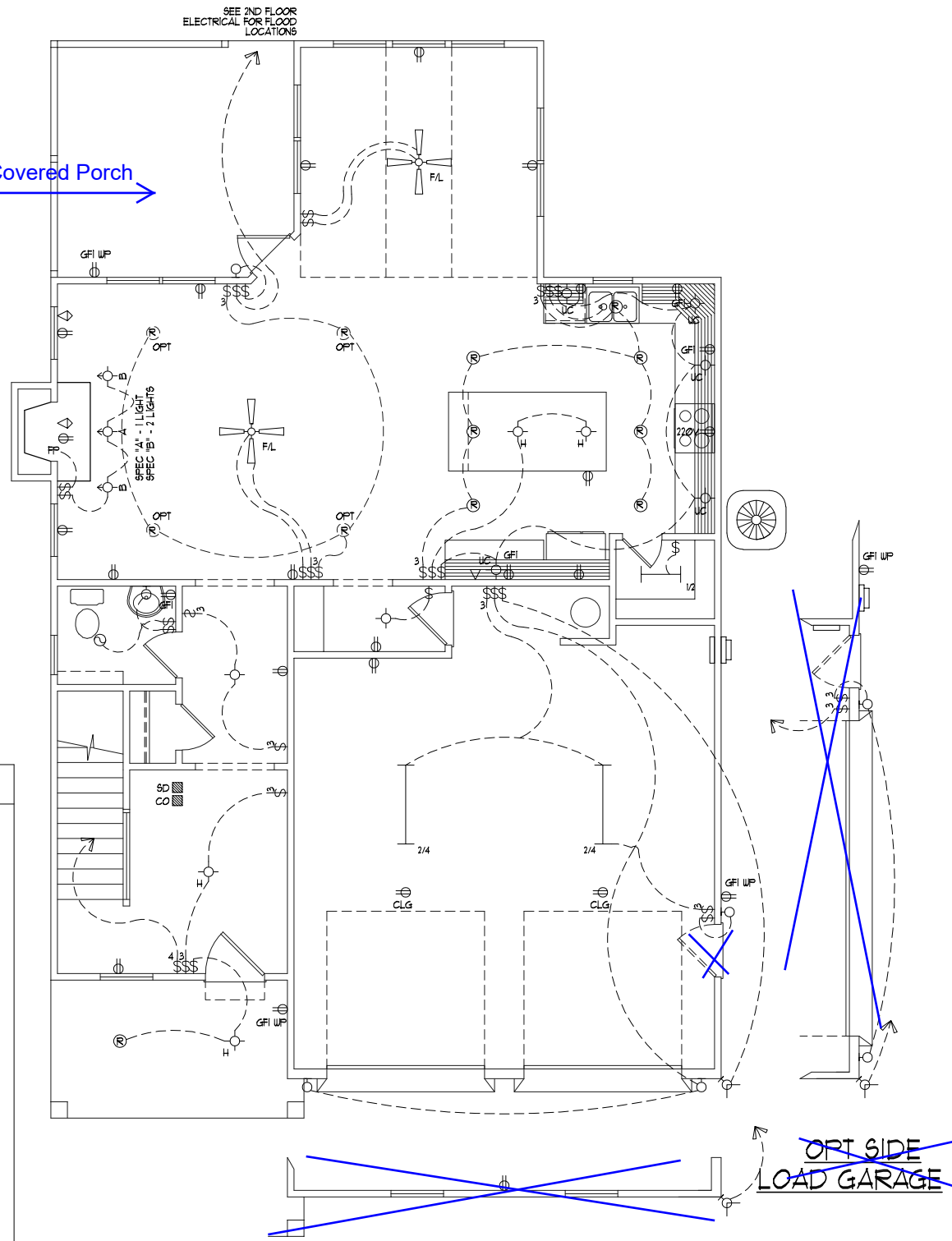
KESSLER
 PLAN NAME
C-2150-34GR 11-04-19
 PLAN I.D. DATE

A-3C
 SHEET

OPTIONAL ELECTRICAL ITEMS	
WITH ALL LIGHTS LISTED RESPECTIVE SWITCHES ARE ASSUMED	
RECESSED LIGHTS	
FLUORESCENT LIGHT IN LIEU OF RECESSED CANS @ KITCHEN ONLY	
CEILING FANS IN LIEU OF FLUSH MOUNT	
FLOODLIGHTS	
HANGING LIGHTS @ KITCHEN	
UNDER CABINET LIGHTS	
EXTERIOR LIGHTS AT GARAGE DOOR	

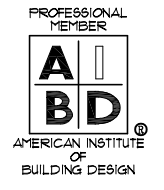


Include Covered Porch →



ELECTRICAL SYMBOLS			
	CEILING MOUNTED LIGHT FIXTURE		EXHAUST FAN
	DIRECTIONAL EYEBALL LIGHT FIXTURE		RECESSED SHOWER LIGHT
	RECESSED LIGHT FIXTURE		EXTERIOR FLOOD LIGHT
	MINI RECESSED LIGHT FIXTURE		SMOKE DETECTOR
	WALL MOUNTED LIGHT FIXTURE		CARBON MONOXIDE DETECTOR
	FLUORESCENT LIGHT		DOOR CHIMES
	1/2 -- 1 BULB @ 2'		ELECTRICAL PANEL
	2/2 -- 2 BULB @ 2'		METERBOX
	1/4 -- 1 BULB @ 4'		A/C UNIT
	2/4 -- 2 BULB @ 4'		110V OUTLET
	4/4 -- 4 BULB @ 4'		220V OUTLET
	HANGING LIGHT FIXTURE		SINGLE SWITCH
	TELEPHONE JACK		3-WAY SWITCH
	CABLE JACK		4-WAY SWITCH
	KEYLESS LIGHT FIXTURE		OUTDOOR OUTLET
	CEILING FAN WITH LIGHT FIXTURE		GFI
	UNDER CABINET LIGHT		

FIRST FLOOR
ELECTRICAL LAYOUT



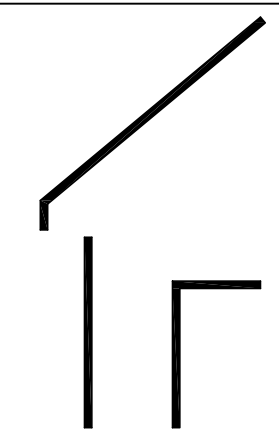
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 PLAN NAME
 C-2150-34GR 11-04-19
 PLAN I.D. DATE

E-1
 SHEET



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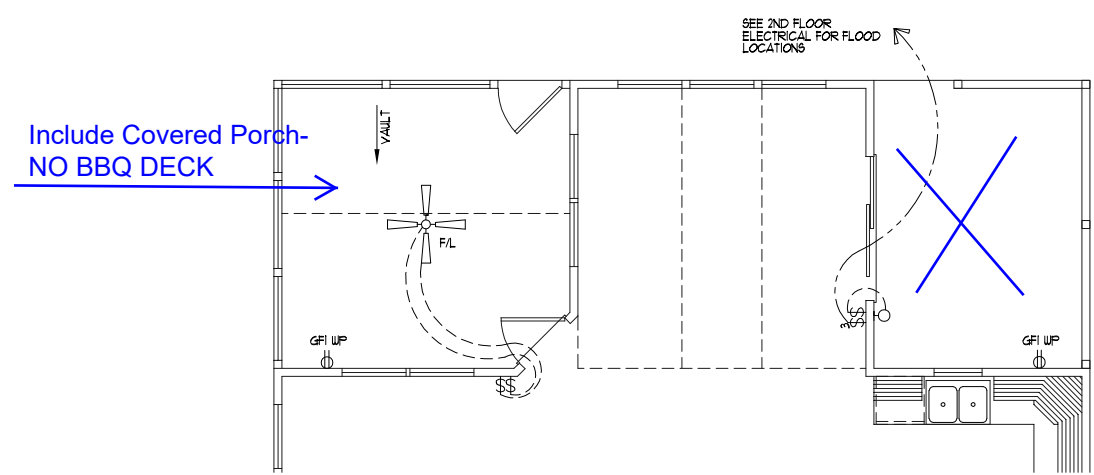
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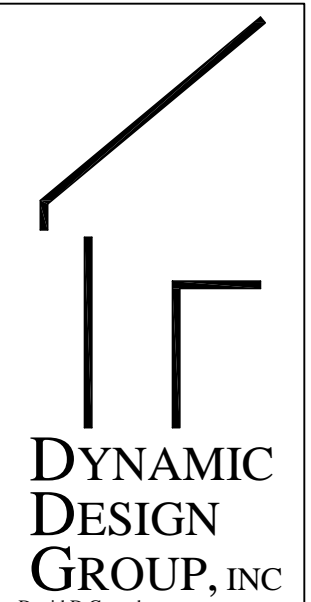
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PLAN NAME
C-2150-34GR
PLAN I.D.
11-04-19
DATE

SCR PORCH
/BBQ DECK
OPTIONS
SHEET



OPTIONAL
SCREEN PORCH/BBQ DECK
ELECTRICAL LAYOUT



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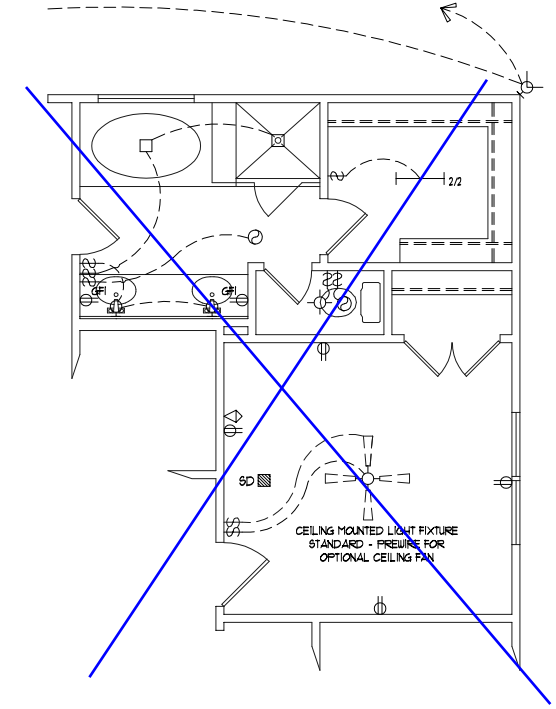
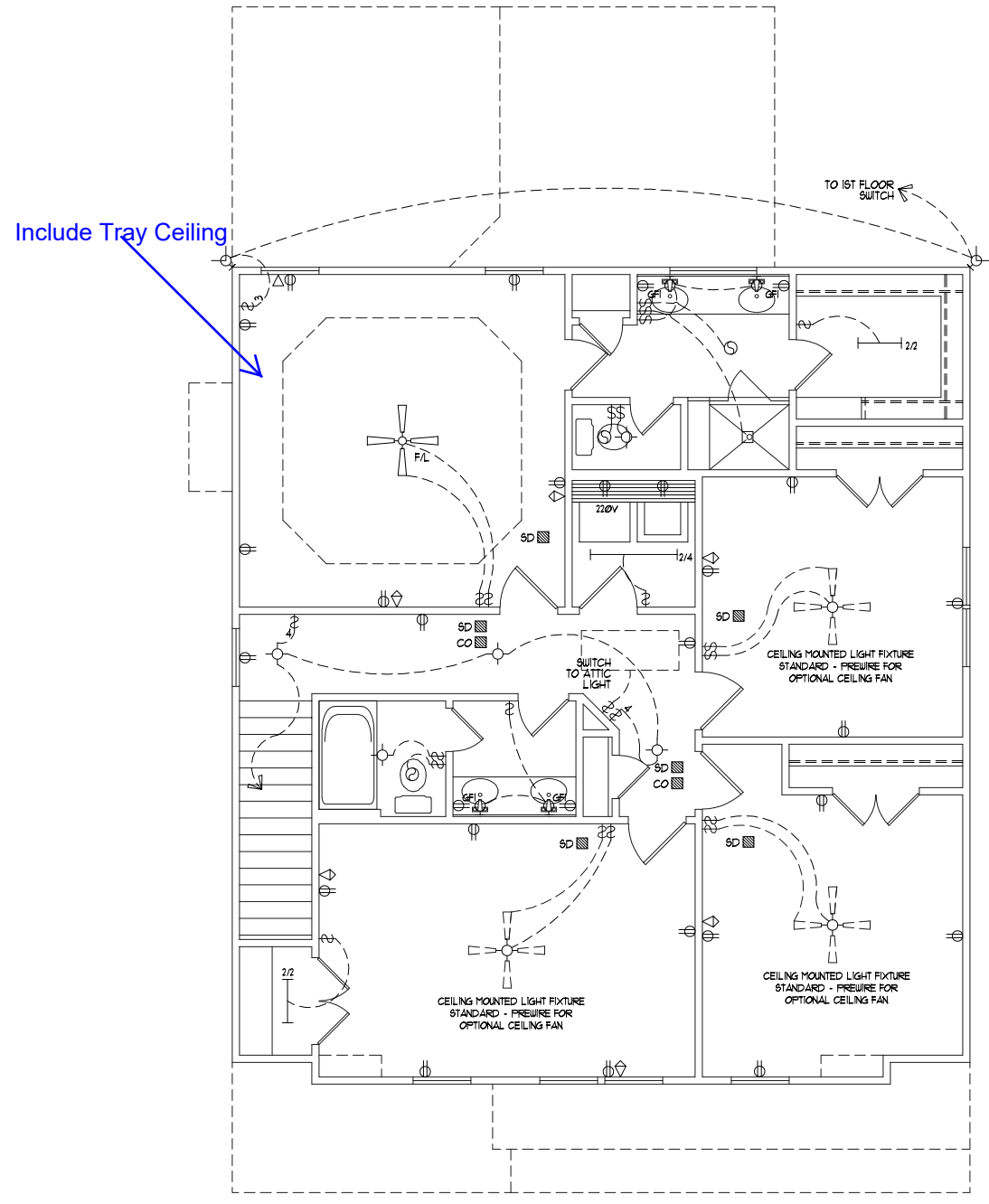
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 COUNTY: MULTI

KESSLER
 PLAN NAME
C-2150-34GR 11-04-19
 PLAN I.D. DATE

E-2B
 SHEET

ELECTRICAL SYMBOLS

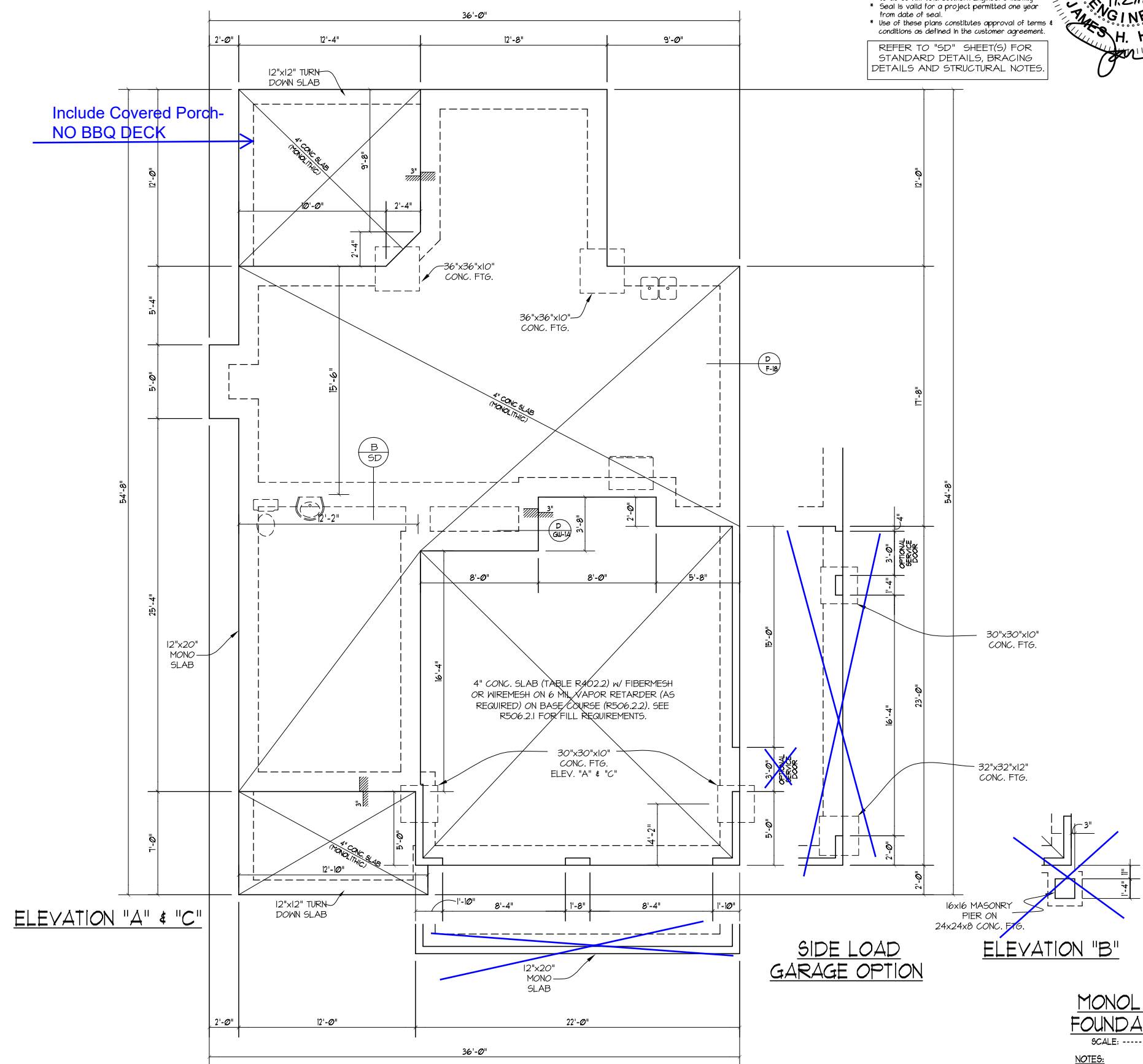
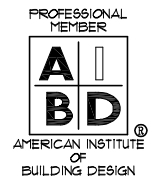
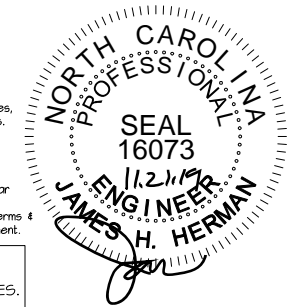
- ⊕ CEILING MOUNTED LIGHT FIXTURE
- ⊕ DIRECTIONAL EYEBALL LIGHT FIXTURE
- ⊙ RECESSED LIGHT FIXTURE
- ⊙ MINI RECESSED LIGHT FIXTURE
- ⊕ WALL MOUNTED LIGHT FIXTURE
- FLUORESCENT LIGHT
 1/2 -- 1 BULB @ 2'
 2/2 -- 2 BULB @ 2'
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- ⊕ HANGING LIGHT FIXTURE
- ▷ TELEPHONE JACK
- ◁ CABLE JACK
- ⊕ KEY KEYLESS LIGHT FIXTURE
- ⊕ CEILING FAN WITH LIGHT FIXTURE
- ⊕ UNDER CABINET LIGHT
- ⊕ EXHAUST FAN
- RECESSED SHOWER LIGHT
- ⊕ EXTERIOR FLOOD LIGHT
- SD SMOKE DETECTOR
- CO CARBON MONOXIDE DETECTOR
- ⊕ DOOR CHIMES
- ⊕ ELECTRICAL PANEL
- ⊕ METERBOX
- ⊕ A/C UNIT
- ⊕ 110 OUTLET
- ⊕ 220V 220 OUTLET
- \$ SINGLE SWITCH
- \$₃ 3-WAY SWITCH
- \$₄ 4-WAY SWITCH
- ⊕ OUTDOOR OUTLET
- ⊕ GFI



ELEVATION "B"
 SECOND FLOOR
 WITH REC ROOM
 ELECTRICAL LAYOUT

SOUTHERN ENGINEERS, P.A.
 3716 BENSON DR., RALEIGH, NC (919) 878-1611
 LICENSE: C-12871, PHONE: 919-878-1611
 PROJECT # 17-1793GR

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



ELEVATION "A" & "C"

SIDE LOAD
 GARAGE OPTION

ELEVATION "B"

MONOLITHIC SLAB
 FOUNDATION PLAN
 SCALE: 1/8"=1'-0"

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

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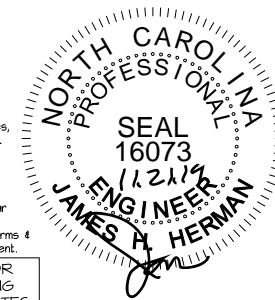
KESSLER
 PLAN NAME
 C-2150-34GR 11-04-19
 PLAN I.D. DATE

S-1
 SHEET

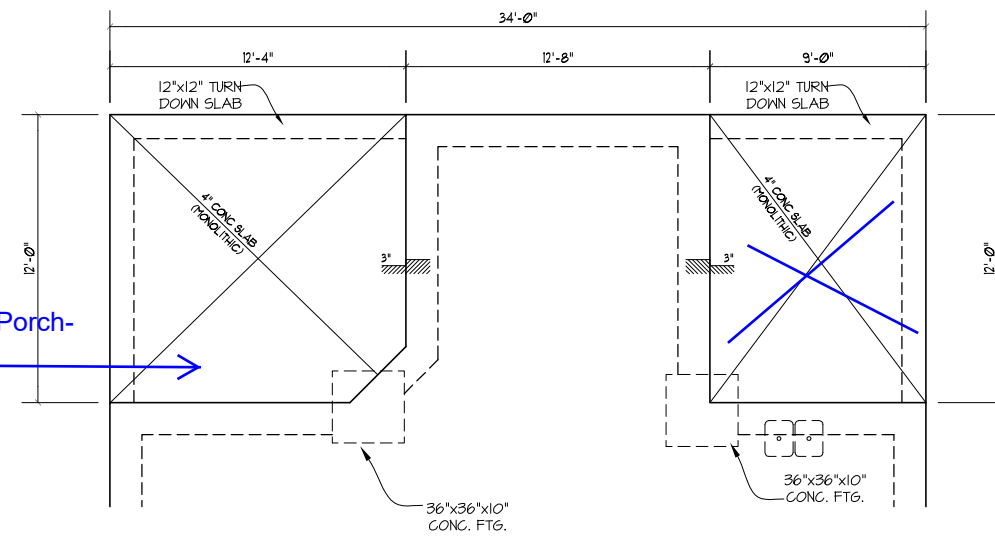
STRUCTURAL DESIGN BY:
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3716 BENSON DR., RALEIGH, NC (919) 878-1611
LICENSE: C-12871, PHONE: 919-878-1611
PROJECT # 17-1793GR

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- 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 a project permitted one year from date of seal.
- Use of these plans constitutes approval of terms & conditions as defined in the customer agreement.

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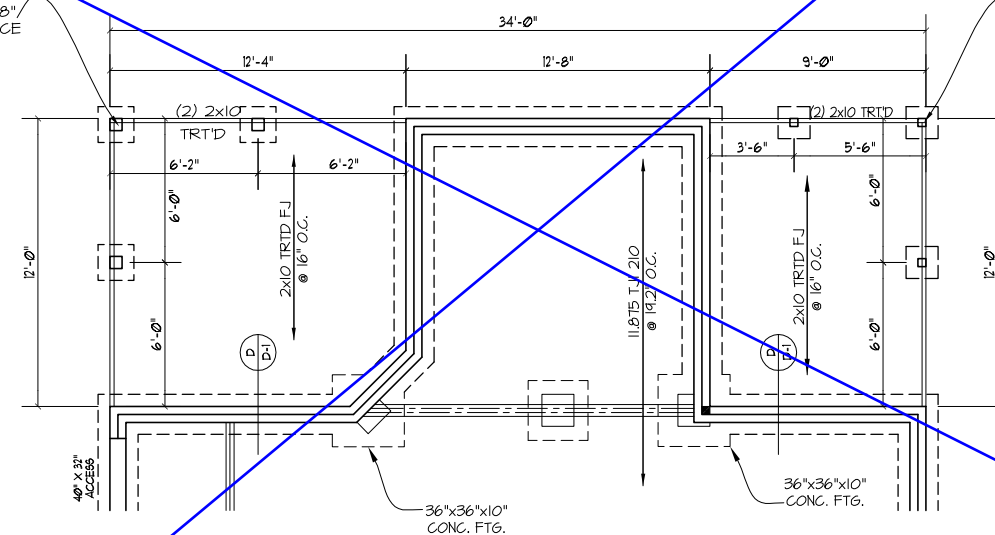
Include Covered Porch-
NO BBQ DECK



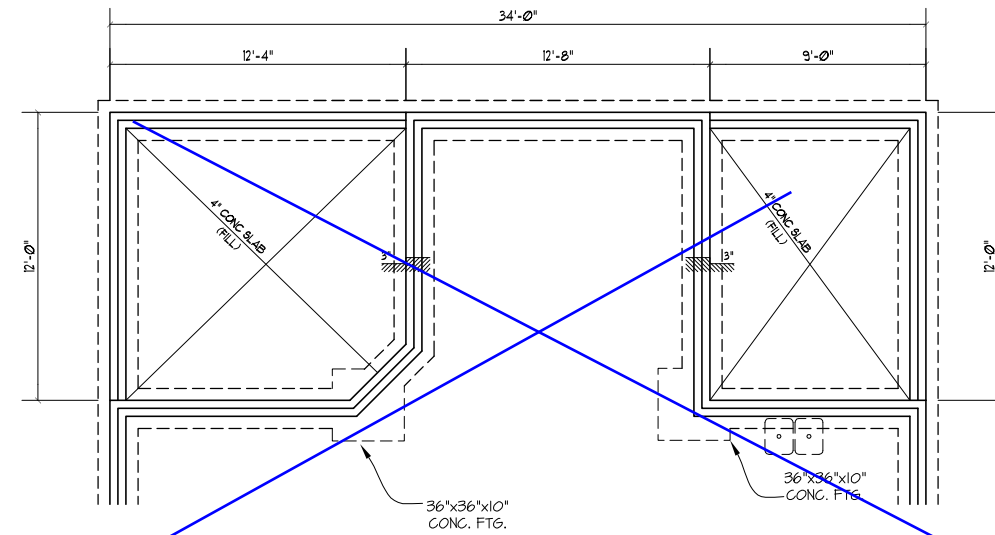
**SCREEN PORCH/BBQ DECK
WITH MONOLITHIC SLAB FOUNDATION**

SCREEN PORCH:
6x6 P.T. POST ON 24"x24"x8"
CONCRETE FTG. (TYP). BRACE
POSTS PER APPENDIX M.

DECK:
4x4 P.T. POST ON 16"x16"x8"
CONCRETE FTG. (TYP). BRACE
POSTS PER APPENDIX M.



**SCREEN PORCH/BBQ DECK
WITH CRAWLSPACE FOUNDATION**



**SCREEN PORCH/BBQ DECK
WITH STEM WALL/SLAB FOUNDATION**

**SCREEN PORCH/BBQ DECK
FOUNDATION OPTIONS**

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

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

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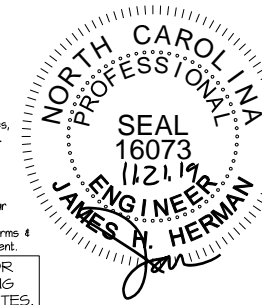
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11-04-19
DATE

S-1 SCR PORCH
/BBQ DECK
OPTIONS
SHEET

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



WHOLE HOUSE BRACING SUMMARY
TOTAL REQUIRED BRACING: 81
TOTAL PROVIDED BRACING: 158
(IN FEET)

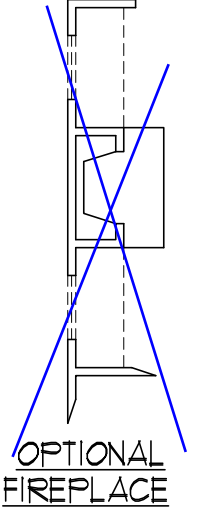
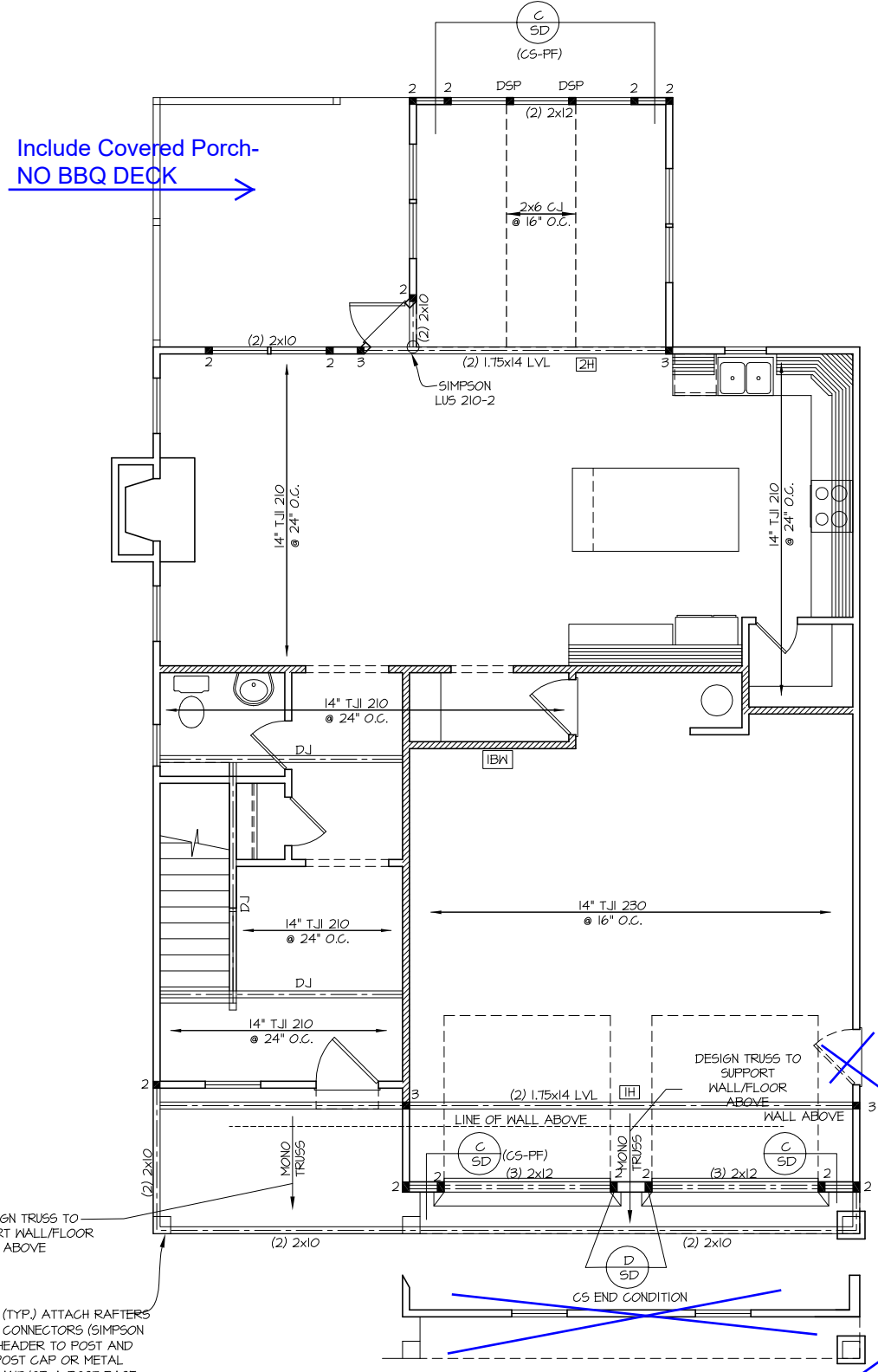
HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (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:
 - UP TO 4' SPAN: (1) KING STUD
 - OVER 4' UP TO 8' SPAN: (2) KING STUDS
 - OVER 8' UP TO 11' SPAN: (3) KING STUDS
 - OVER 11' SPAN: (4) KING STUDS

FRAMING NOTES

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

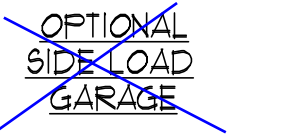
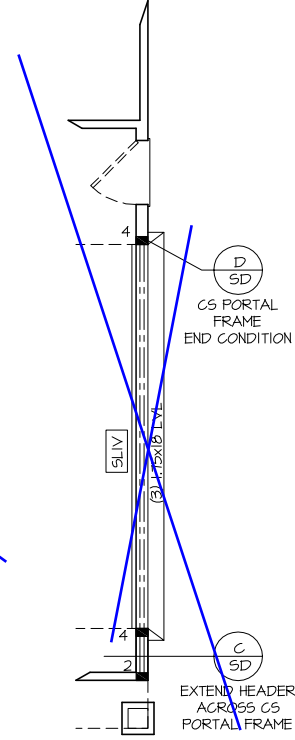
- BRACING METHOD AND TYPE: CONTINUOUSLY SHEATHED WSP. CS-WSP. NOTE THAT THE WALL BRACING AMOUNT PROVIDED ON THE PLANS (DETAILS AND SPECIFICATIONS) IS GREATER THAN THE AMOUNT OF WALL BRACING REQUIRED BY THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
- EXTERIOR 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 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.
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LVL SCHEDULE

1H	(2) 1.75x14 - 34'
2H	(2) 1.75x14 - 16'

6x6 TRT'D POST (OR EQUIV) (TYP) ATTACH RAFTERS AT PORCH WITH HURRICANE CONNECTORS (SIMPSON H2.5 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.



LVL SCHEDULE
SIDE LOAD GARAGE

ADD	SLIV (3) 1.75x18-20'
-----	----------------------

ELEVATION "B"
FIRST FLOOR CEILING /
STRUCTURAL PLAN

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

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

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

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

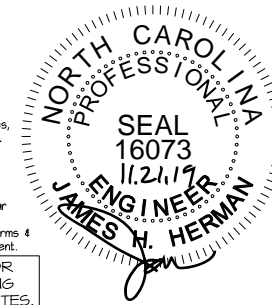
KESSLER
PLAN NAME
C-2150-34GR
PLAN I.D.
11-04-19
DATE

S-2B
SHEET

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC (919) 878-1611
LICENSE: C-12871, PHONE: 919-878-1611
PROJECT # 17-1793GR

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

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



HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (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:
 - UP TO 4' SPAN: (1) KING STUD
 - OVER 4' UP TO 8' SPAN: (2) KING STUDS
 - OVER 8' UP TO 11' SPAN: (3) KING STUDS
 - OVER 11' SPAN: (4) KING STUDS

FRAMING NOTES

NC (2018 NGRG); 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 THE CODE. SEE NOTES BELOW FOR DETAILS AND SPECIFICATIONS FOR WALL BRACING AND WALL FRAMING.
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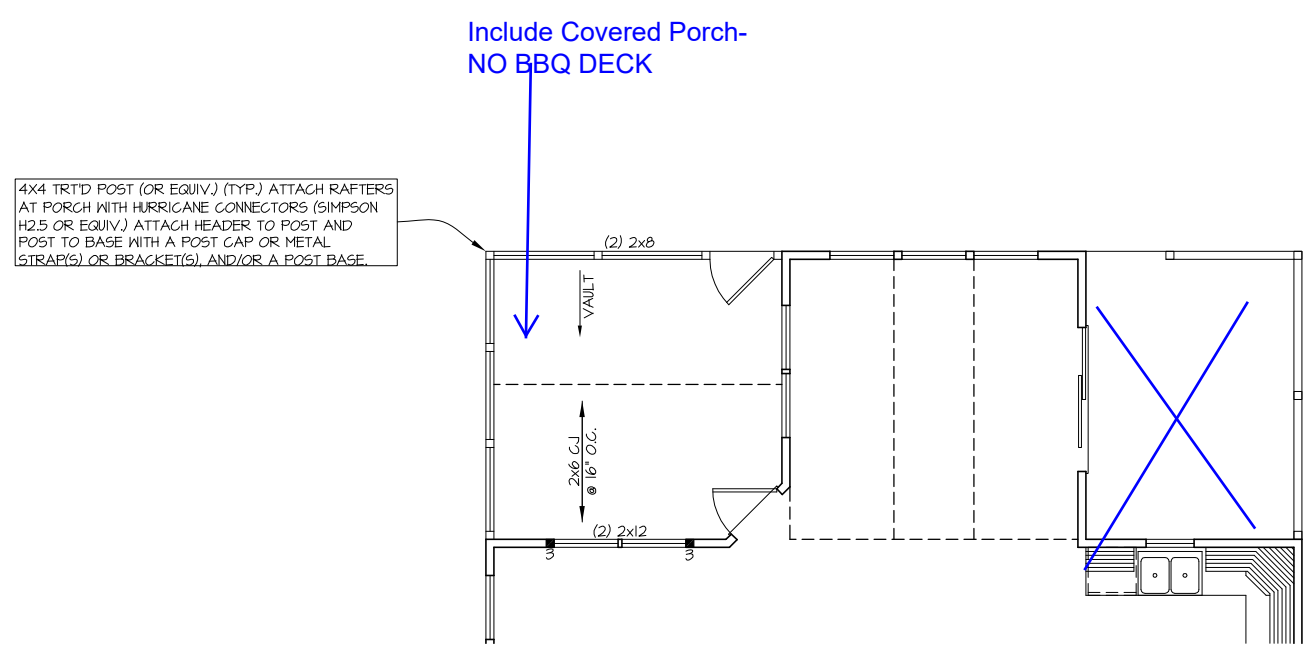
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LOCATION: MULTI
LOT: MULTI
SUBDIVISION: MULTI
COUNTY: MULTI

KESSLER
PLAN NAME
C-2150-34GR
PLAN I.D.
11-04-19
DATE

SCREEN PORCH CEILING / STRUCTURAL PLAN
SCALE: ----- 1/8" = 1'-0"

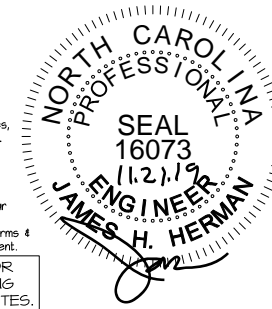
- NOTES:
1) SHADED WALLS DENOTE LOAD BEARING WALLS.
2) ■ DENOTES SOLID STUDS.



STRUCTURAL DESIGN BY:
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3716 BENSON DR., RALEIGH, NC (919) 878-1611
LICENSE: C-12871, PHONE: 919-878-1611
PROJECT # 17-1793GR

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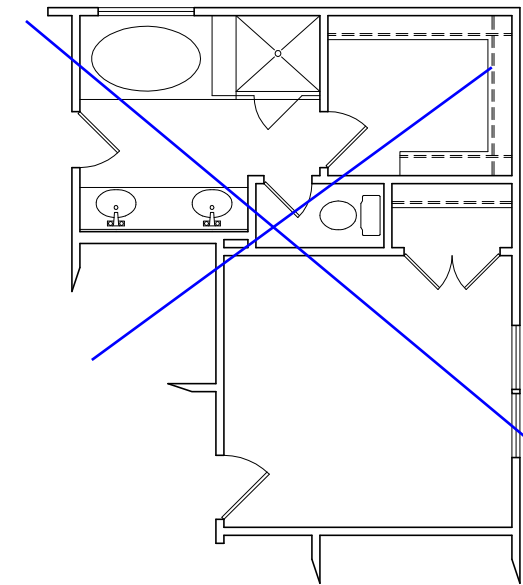
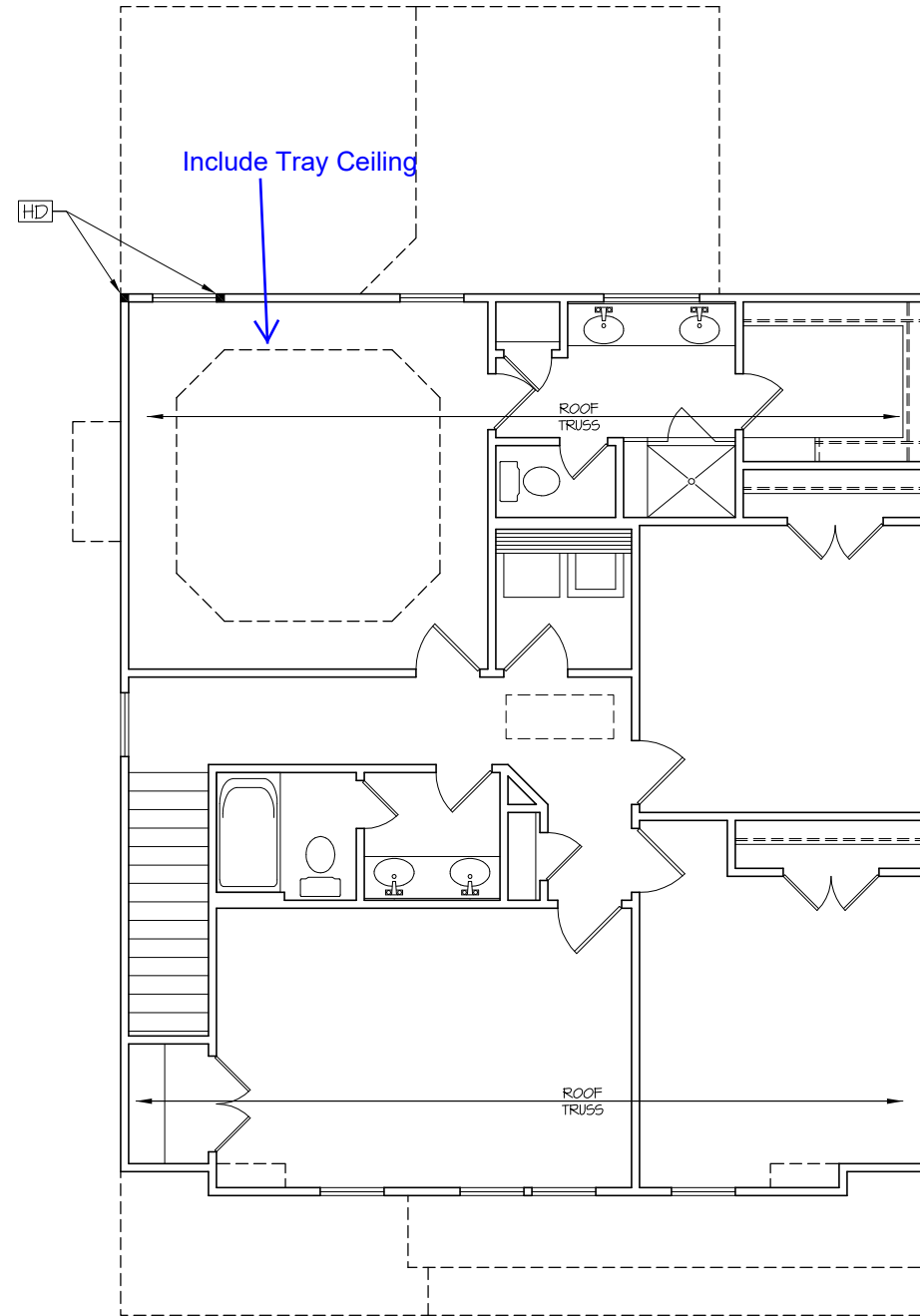
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FRAMING NOTES

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

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ELEVATION "B"
WITH REC ROOM
SECOND FLOOR CEILING/
STRUCTURAL PLAN

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

- NOTES:
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 - DENOTES SOLID STUDS.

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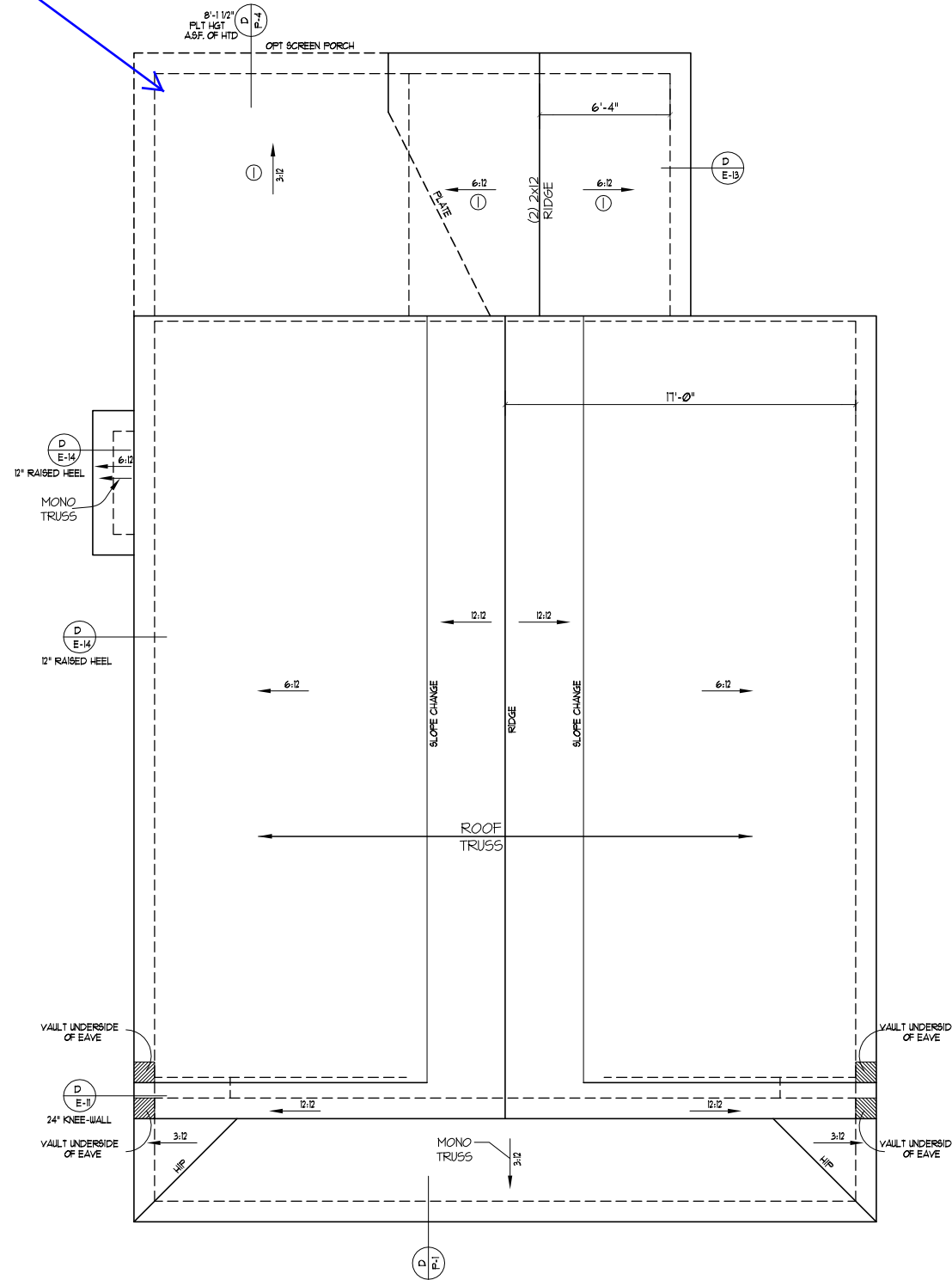
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CAPITOL
PROJECT FOR: CITY HOMES
LOCATION: MULTI
LOT: MULTI
SUBDIVISION: MULTI
COUNTY: MULTI

KESSLER
PLAN NAME
C-2150-34GR
PLAN I.D.
11-04-19
DATE

S-3B
SHEET

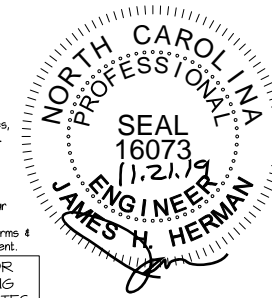
Include Covered Porch



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC (919) 878-1611
LICENSE: C-12871, PHONE: 919-878-1611
PROJECT # 17-1793GR

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ROOF FRAMING NOTES:

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

- ① 2x8 @ 16" O.C. WITH 2x10 RIDGE, UNO.
- ② (2) 2x10 OR 1.75x11.875 LVL HIP. (2) 2x10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP AT CENTER
- ③ (2) 2x10 OR 1.75x9.25 LVL VALLEY. DO NOT SPLICE VALLEYS
- ④ 1.75x11.875 LVL OR (2) 1.75x9.25 LVL VALLEY
- ⑤ FALSE FRAME VALLEY ON 2x10 FLAT PLATE
- ⑥ 2x6 RAFTERS @ 16" O.C. W/ 2x8 RIDGE, UNO.
- ⑦ 2x10 RAFTERS @ 16" O.C. W/ 2x12 RIDGE, UNO.
- ⑧ EXTEND RIDGE 12" BEYOND INTERSECTION

- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER
- "RS" = ROOF SUPPORT
- "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT (USE 2X6 OR 6X6 FOR SUPPORT POSTS OVER 10'-0" IN HEIGHT)
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H-2.5A" OR EQUIVALENT
- 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

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.

ATTIC VENTILATION			
REQUIRED	1751	SQ. FT. OF ATTIC / 300 =	5.84
		SQ. FT. OF INLET & OUTLET	
PROVIDED			
(INLET)			
SOFFIT	271	SQ. FT. PER x	56
		LINEAR FT. OF VENT.	3.92
		SQ. FT. OF VENT.	43
		(TOTAL OF INLET)	%
(OUTLET)			
RIDGE	11	SQ. FT. PER x	48
		LINEAR FT. OF VENT.	5.28
		SQ. FT. OF VENT.	57
		(TOTAL OF OUTLET)	%
		9.20	TOTAL SQ. FT. OF VENT.

**ELEVATION "B"
ROOF FRAMING PLAN**

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

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

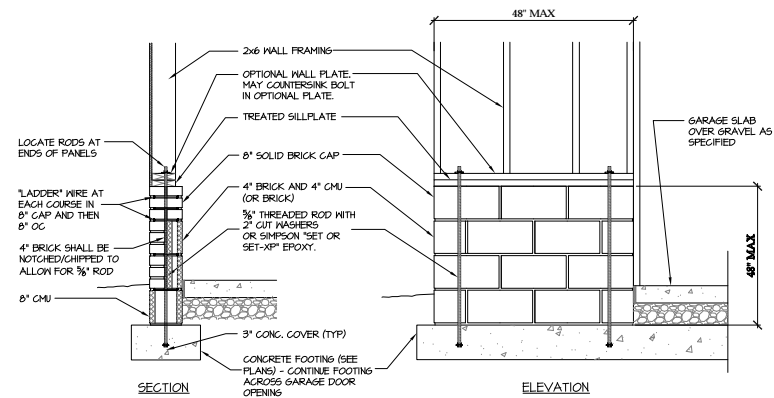
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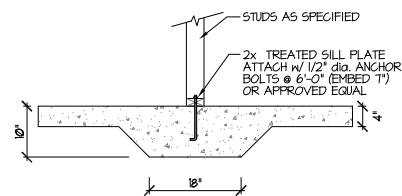
CAPITOL CITY HOMES
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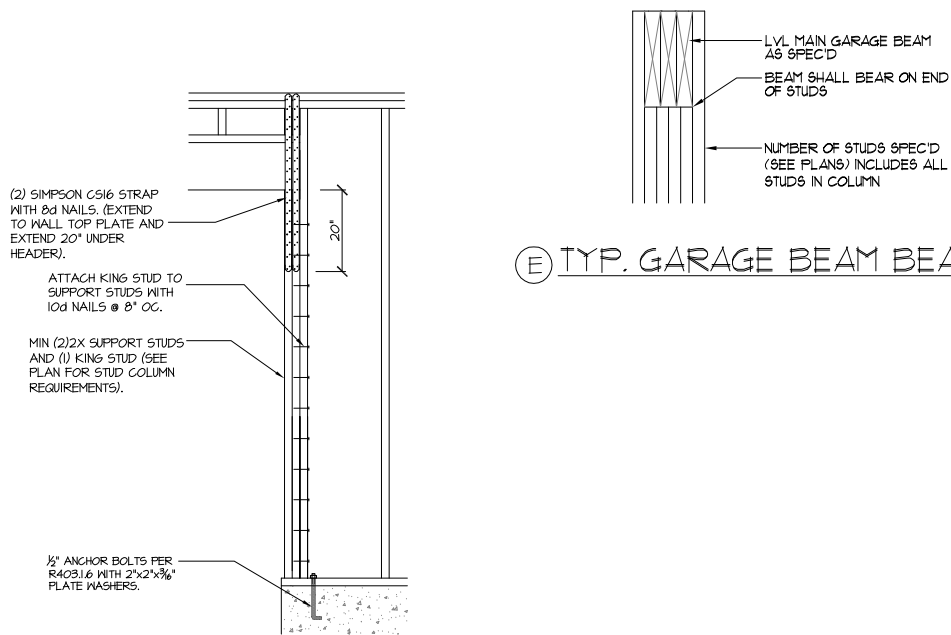
S-4B
SHEET



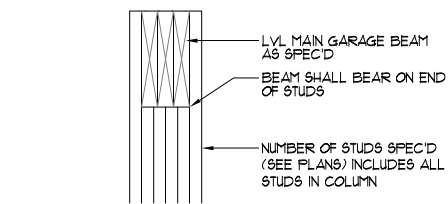
A GARAGE 'WING WALL' REINFORCING
(CODE REFERENCE: IRC FIGURE R602.10.5.3)



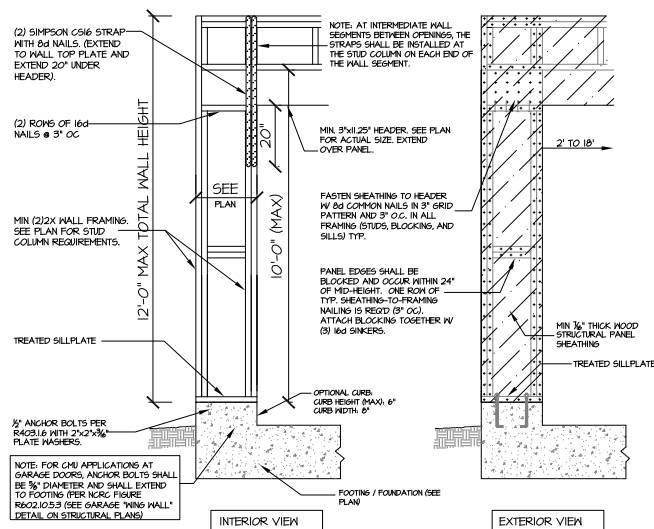
B TYPICAL THICKENED SLAB
NTS



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

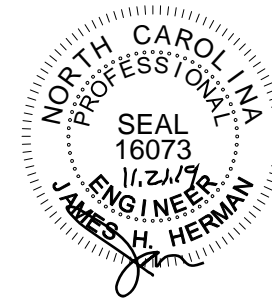


E TYP. GARAGE BEAM BEARING
NTS



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

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC (919) 878-1617
LICENSE: C-1281, PHONE: 919-878-1617
PROJECT # 17-1743GR



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STRUCTURAL NOTES

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

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- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF 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 (INO). 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 (INO). 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=290 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 MANUFACTURE'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. LAP ALL REBAR SPLICES 30 BAR DIAMETERS.
- REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 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 RT03.1.3 LINTELS.

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CAPITOL PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

KESSLER

PLAN NAME

C-2150-34GR

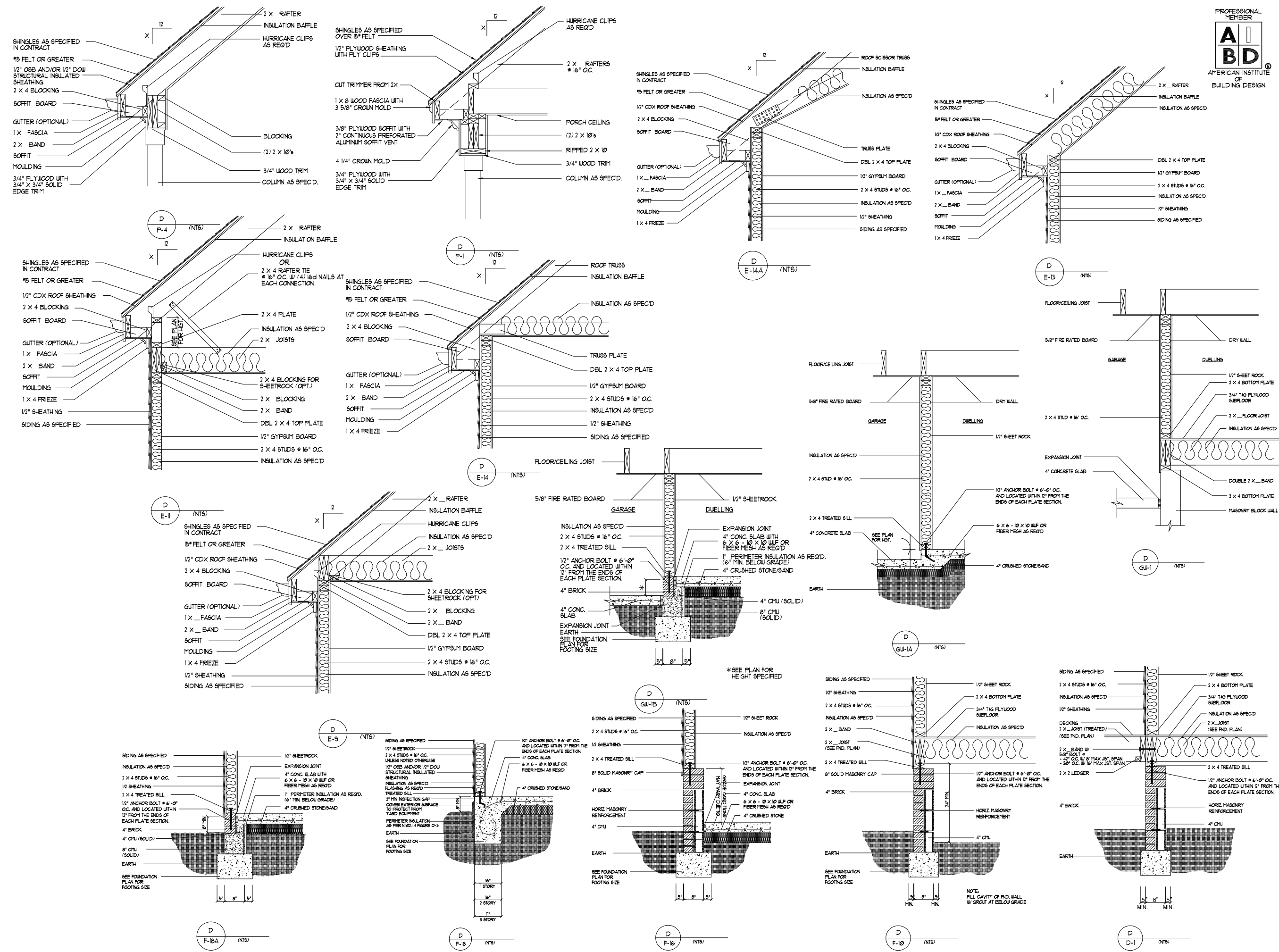
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PLAN I.D.

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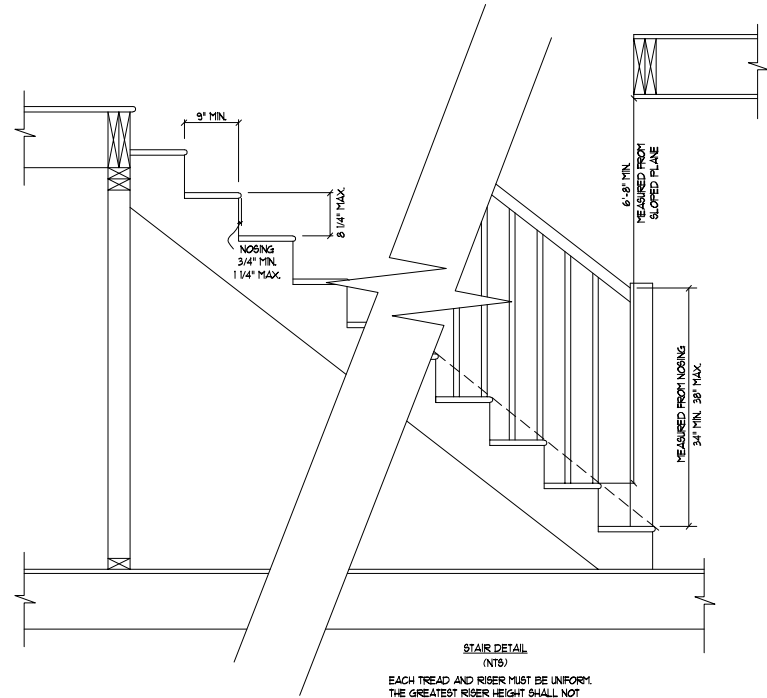
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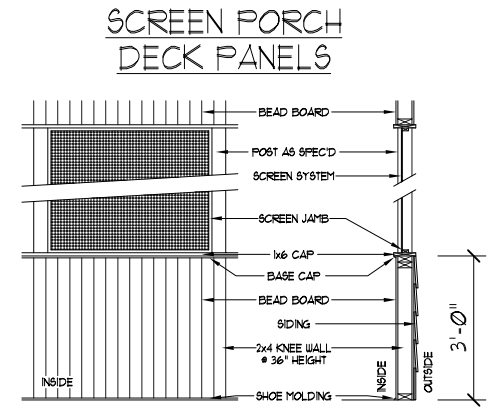
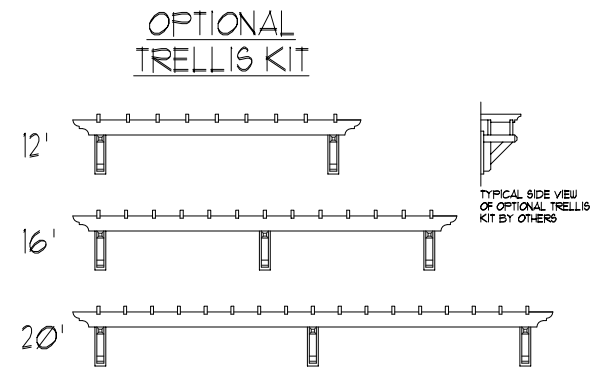
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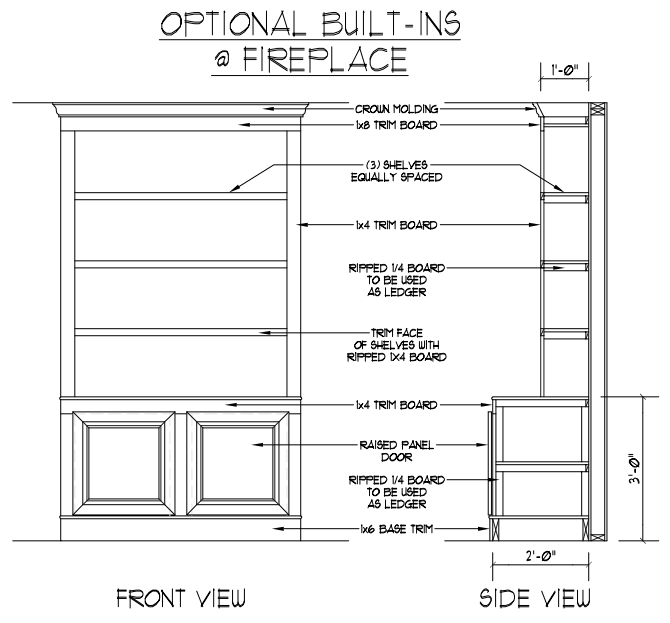
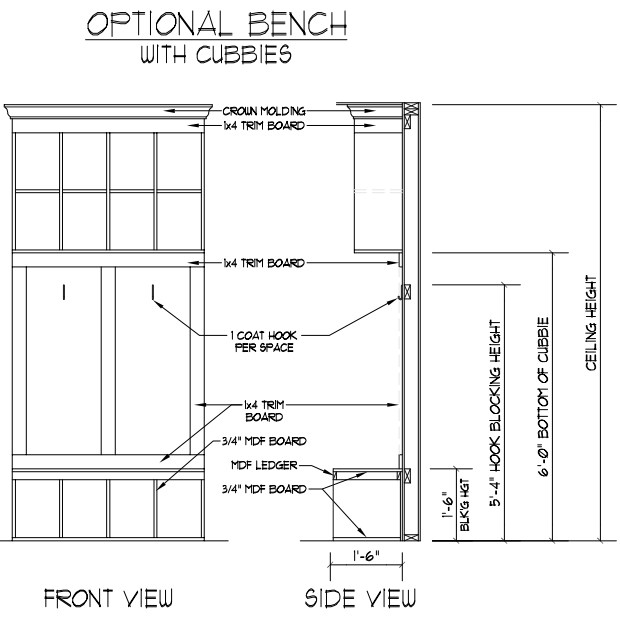
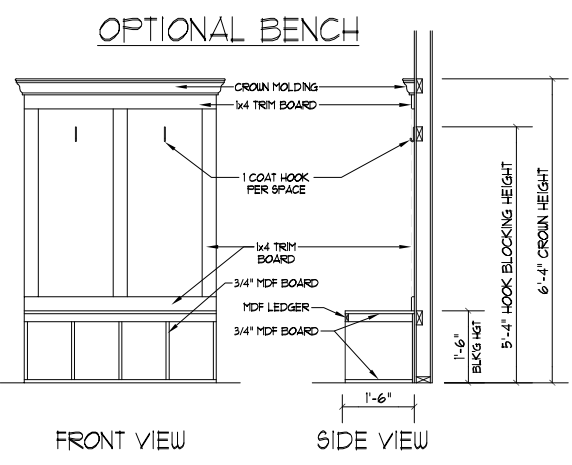
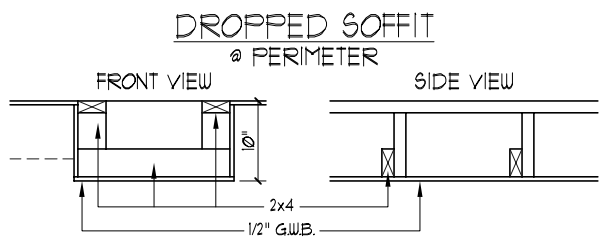


STAIR DETAIL (NTS)
 EACH TREAD AND RISER MUST BE UNIFORM. THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8\"/>

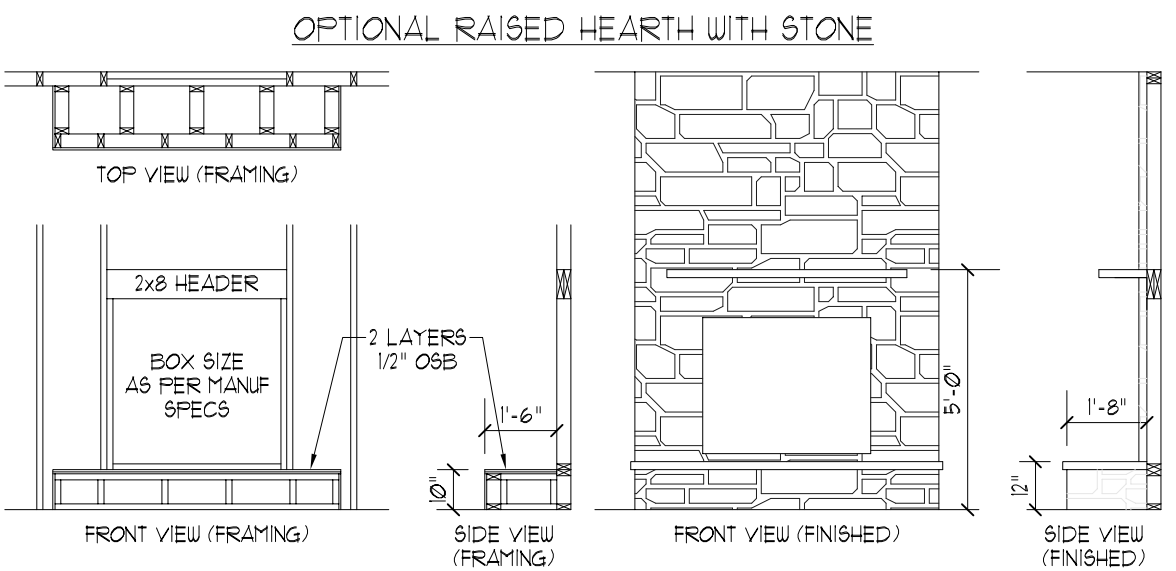
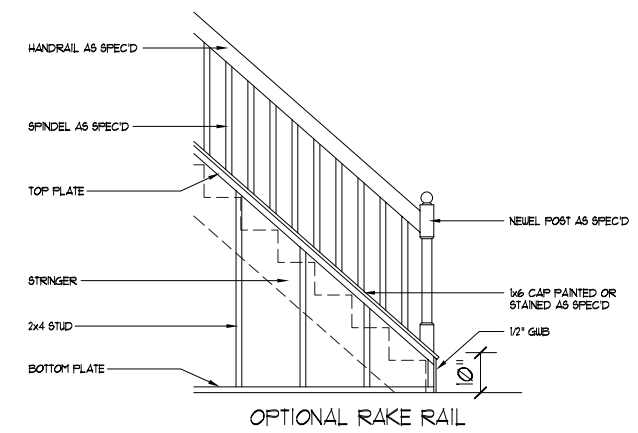
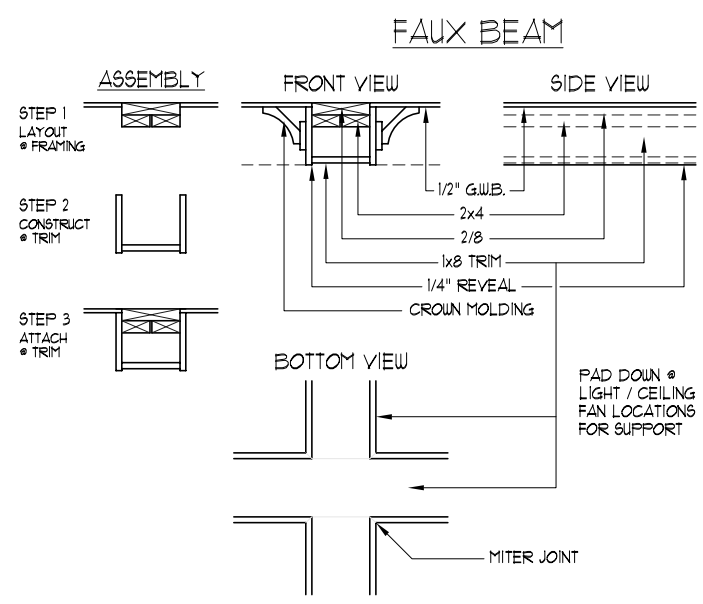


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