

Crossing at Anderson Creek 208- 122 Kensington Dr. Spring Lake, 28390
 Harnett County
 Created: 7/21/2021



House Plan: Braxton
 Elevation: A
 Stone/Brick Option: #1
 Foundation: Slab
 Foundation Finish: 3 Sides Parged
 Garage Hand: Left
 Garage: 2 Car Front
 Garage Door:(1) 16x8
 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
 Include Dining Room Windows
 Covered Porch
 Bedroom #4
 Tray Ceiling in Master Bedroom
 Tray Ceiling in Dining Room

Total Heated Sq. Ft.: 2216
 Total Unheated Sq. Ft.: 810
 Total SQ FT: 3026

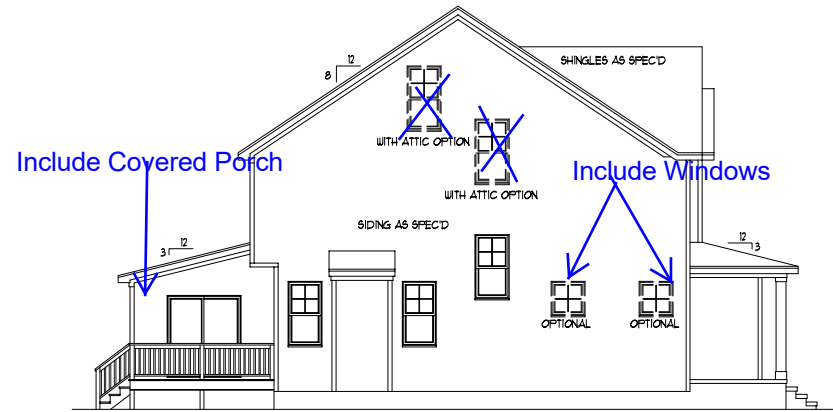
Bedrooms: 4+Morning Room + Dining Room
 Full Bathrooms: 2
 Half Bathrooms: 1



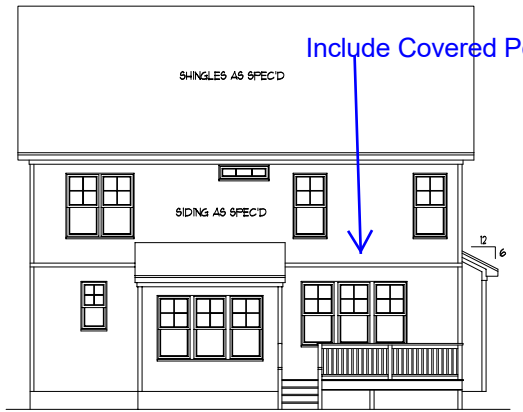
FRONT ELEVATION "A"
 SCALE: 1/8" = 1'-0"
 HARDI FRONT

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

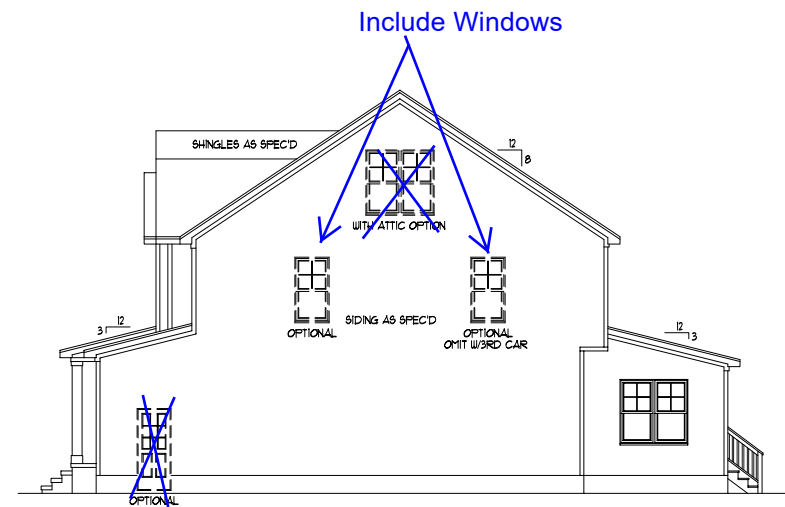
Brick/Stone Location
 See MSS



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



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



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

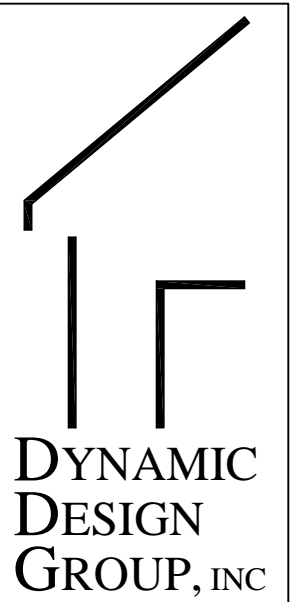
DYNAMIC DESIGN GROUP, INC
 David D Groud
 (919) 601-1406
 DynamicDesignGroup@gmail.com

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

BRAXTON
 PLAN NAME
 C-2216-36GR
 PLAN I.D.
 6-25-19
 DATE

A-1A
 SHEET



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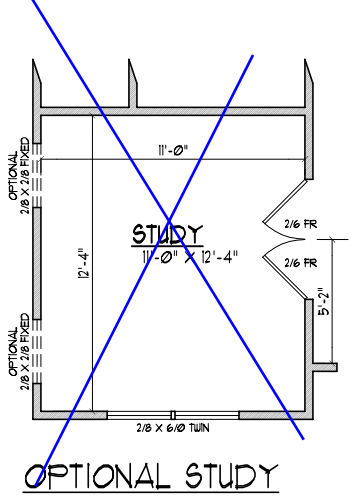
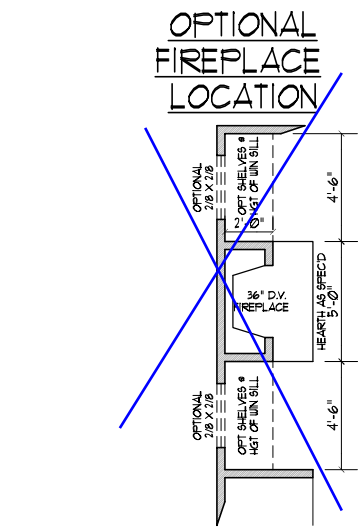
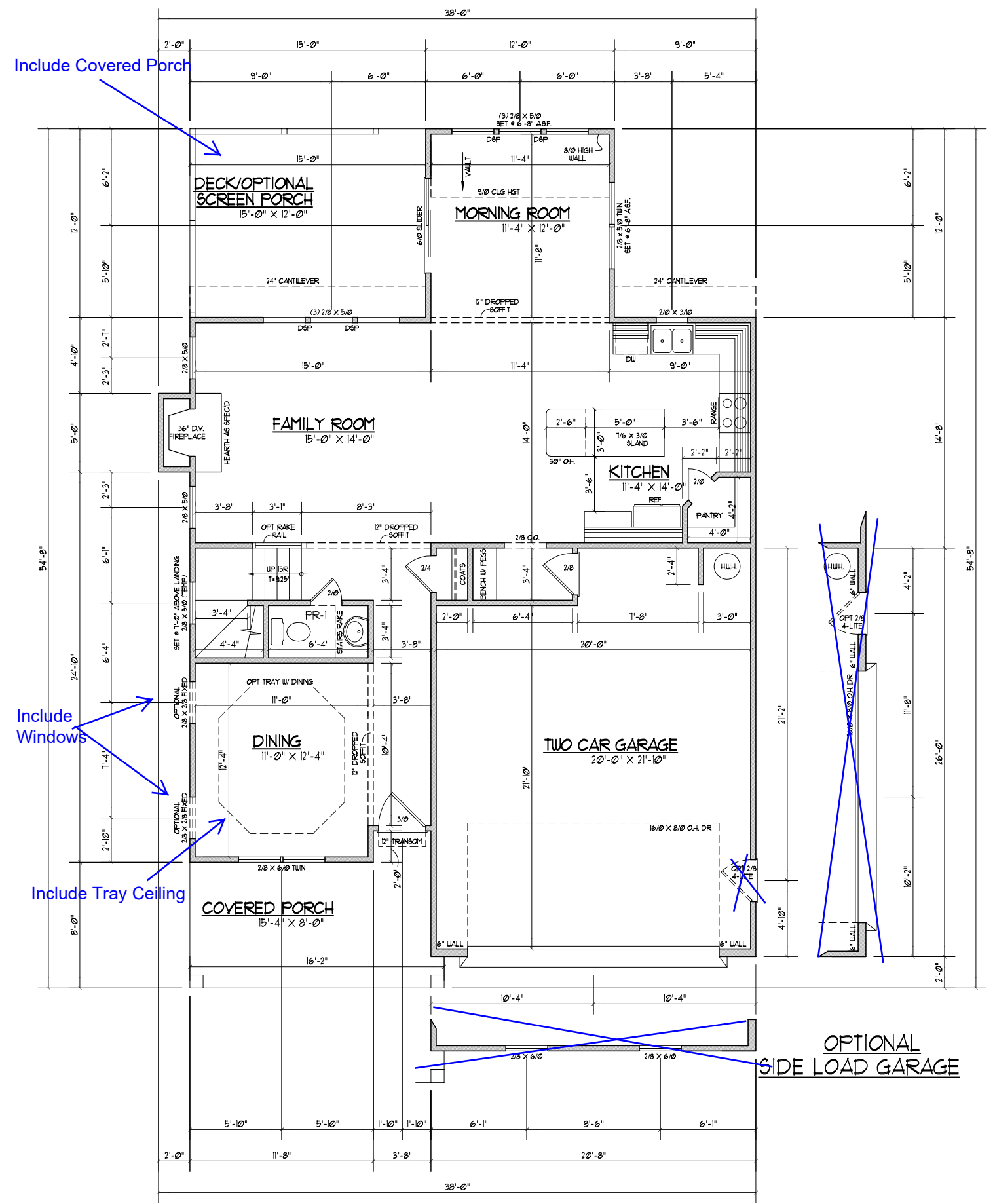
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C-2216-36GR
 6-25-19
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 PLAN I.D.

A-2
 SHEET



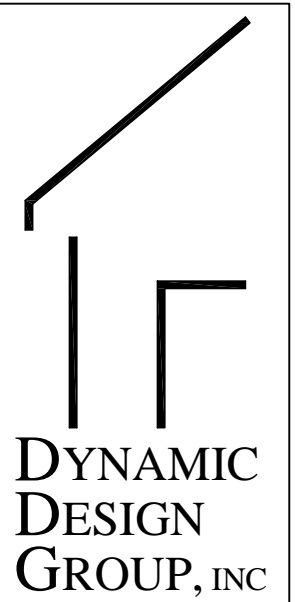
FIRST FLOOR PLAN
 SCALE: ----- 1/8" = 1'-0"

956 HEATED SQ. FT.
498 SQ. FT. GARAGE
132 SQ. FT. COVERED PORCH
100 SQ. FT. DECK/OPT. SCREEN PORCH

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

~~OPTIONAL SIDE LOAD GARAGE~~

OPT SCREEN PORCH/BBQ DECK



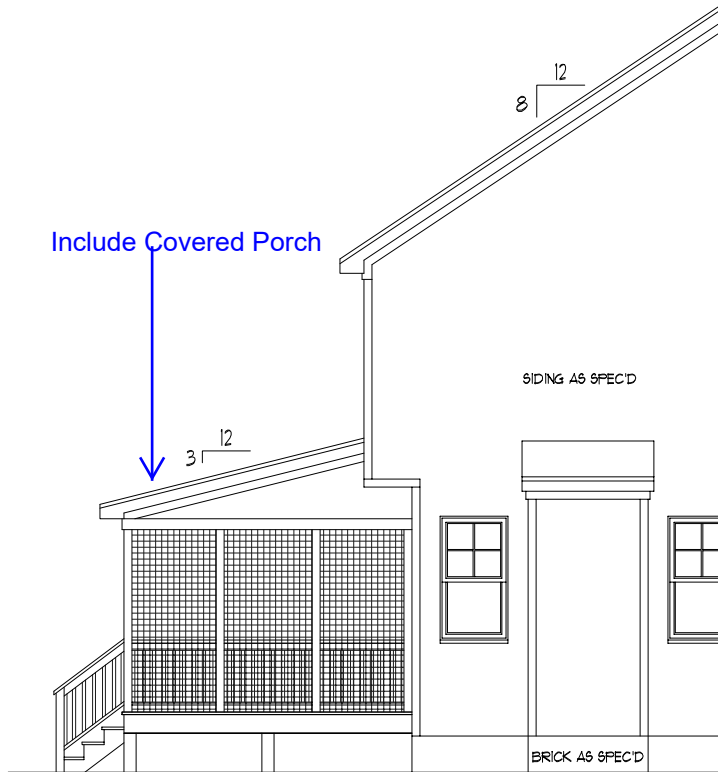
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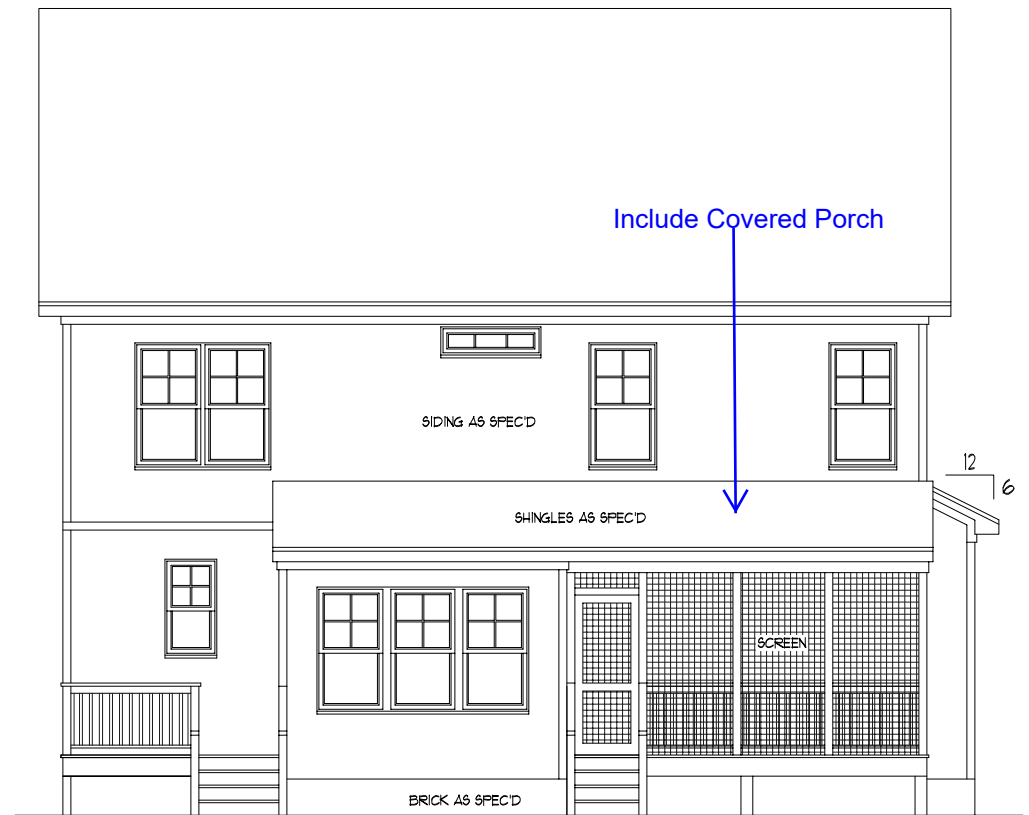
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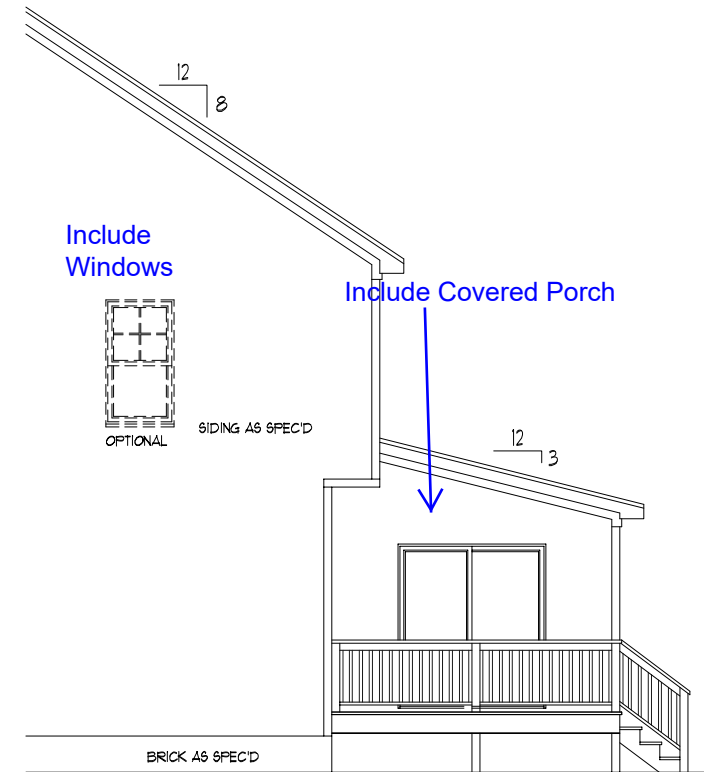
A-2 SCR PORCH / BBQ DECK OPTIONS
 SHEET



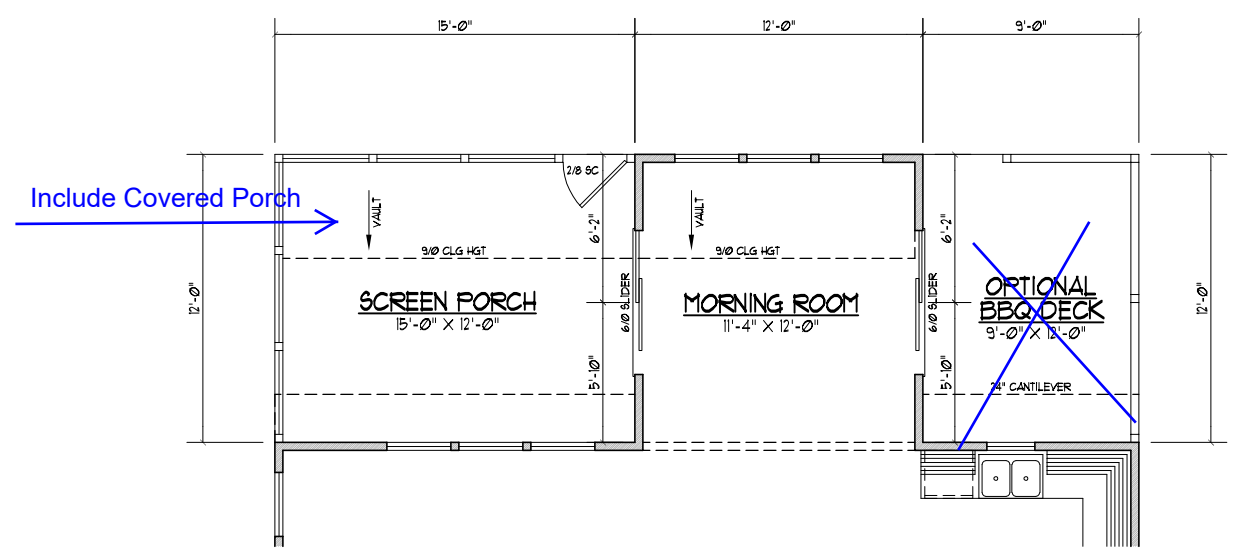
LEFT SIDE ELEVATION



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



RIGHT SIDE ELEVATION



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

120 SQ. FT. SCREEN PORCH
 100 SQ. FT. OPT. BBQ DECK

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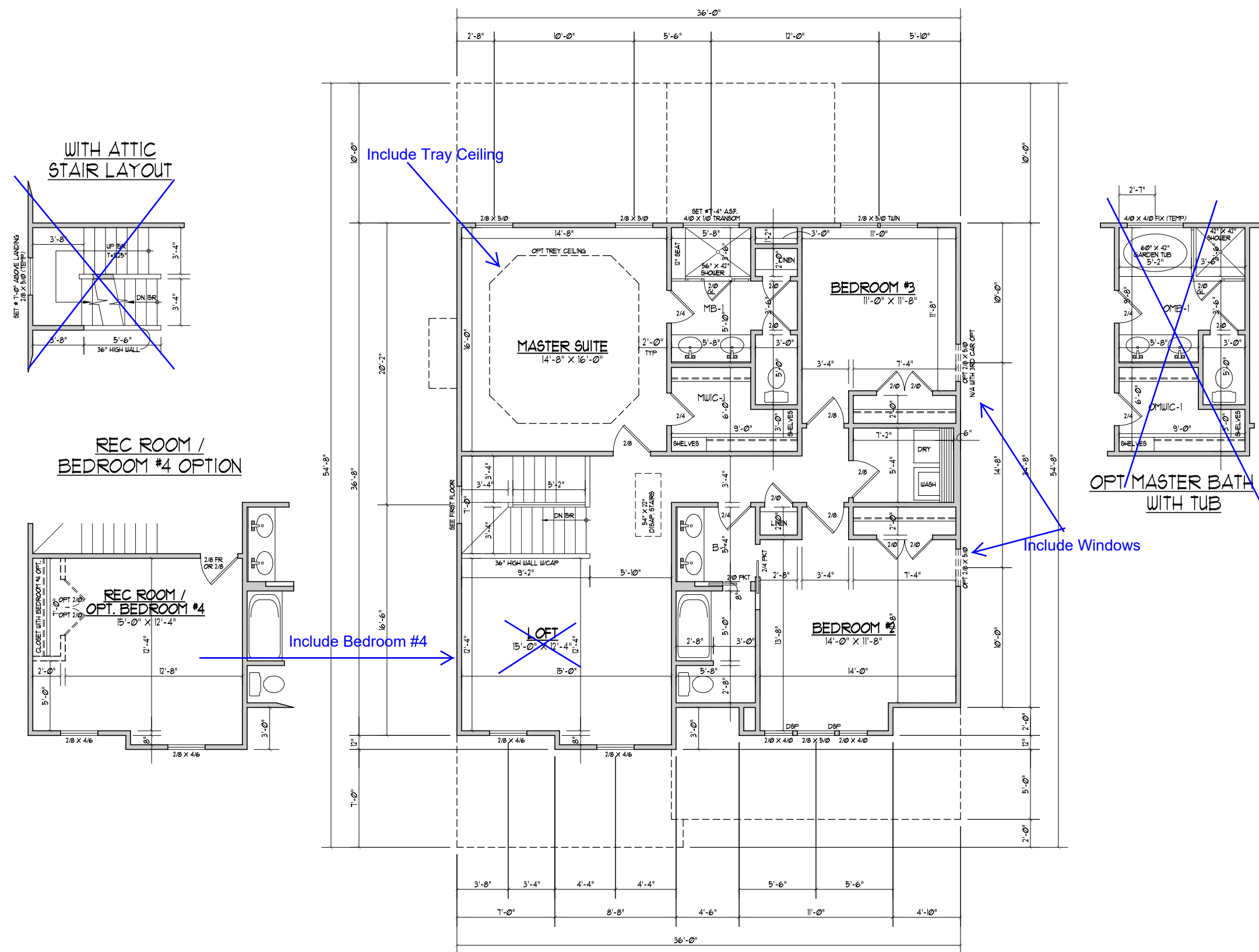
C-2216-36GR

6-25-19

DATE

PLAN I.D.

A-3A
SHEET



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

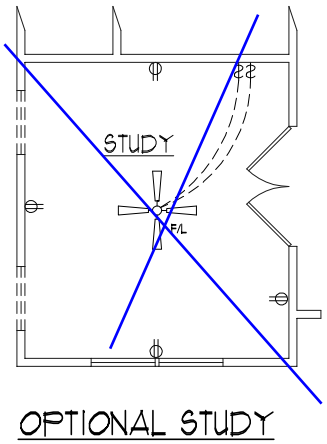
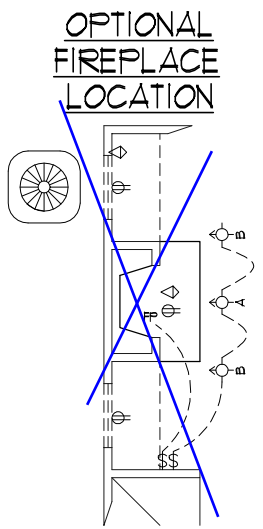
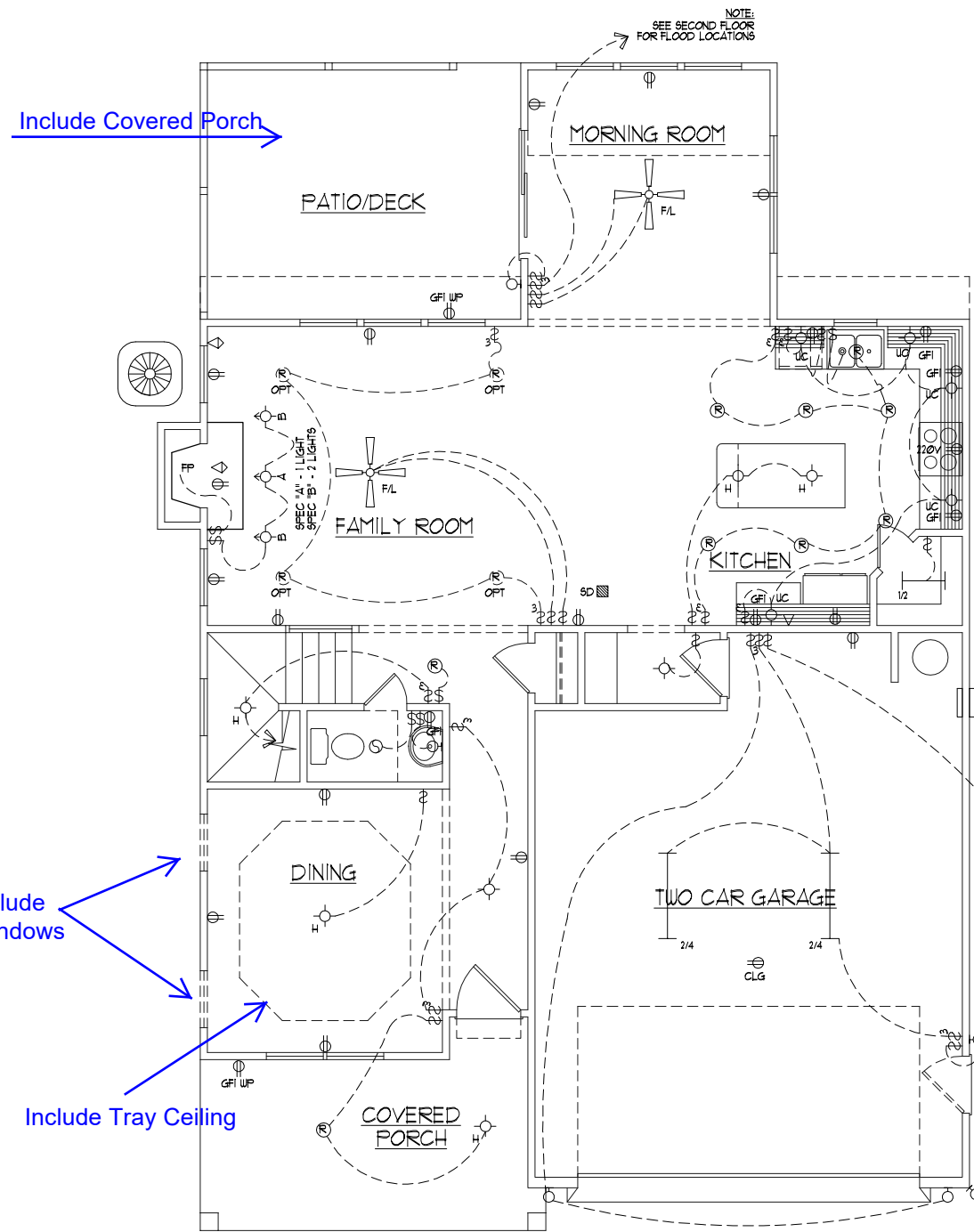
ELEVATION "A"
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

1260 HEATED SQ. FT.

- NOTES:
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 - 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPEN'GS.

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 1/2 -- 1 BULB @ 2' 2/2 -- 2 BULB @ 2' 1/4 -- 1 BULB @ 4' 2/4 -- 2 BULB @ 4' 4/4 -- 4 BULB @ 4'	⊙	DOOR CHIMES
⊙	HANGING LIGHT FIXTURE	⊙	ELECTRICAL PANEL
⊙	TELEPHONE JACK	⊙	METERBOX
⊙	CABLE JACK	⊙	A/C UNIT
⊙	KEYLESS LIGHT FIXTURE	⊙	110 OUTLET
⊙	CEILING FAN WITH LIGHT FIXTURE	⊙	220 OUTLET
⊙	UNDER CABINET LIGHT	⊙	SINGLE SWITCH
		⊙	3-WAY SWITCH
		⊙	4-WAY SWITCH
		⊙	OUTDOOR OUTLET
		⊙	GFI



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

OPTIONAL SIDE LOAD GARAGE

FIRST FLOOR ELECTRICAL LAYOUT

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BRAXTON
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C-2216-36GR
 PLAN I.D.
6-25-19
 DATE

E-1
 SHEET

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'		
	HANGING LIGHT FIXTURE		110V OUTLET
	TELEPHONE JACK		220V OUTLET
	CABLE JACK		SINGLE SWITCH
	KEYLESS LIGHT FIXTURE		3-WAY SWITCH
	CEILING FAN WITH LIGHT FIXTURE		4-WAY SWITCH
			OUTDOOR OUTLET
	UNDER CABINET LIGHT		GFI

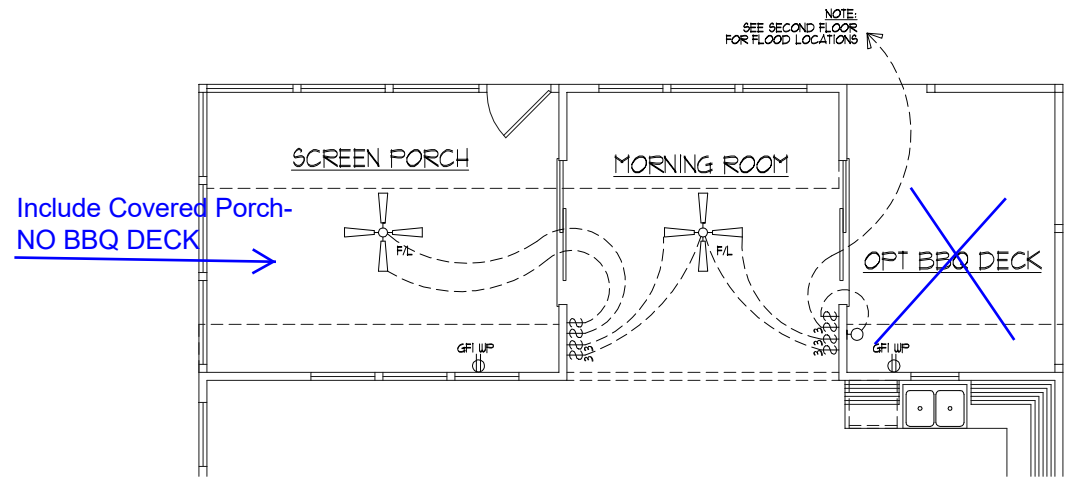
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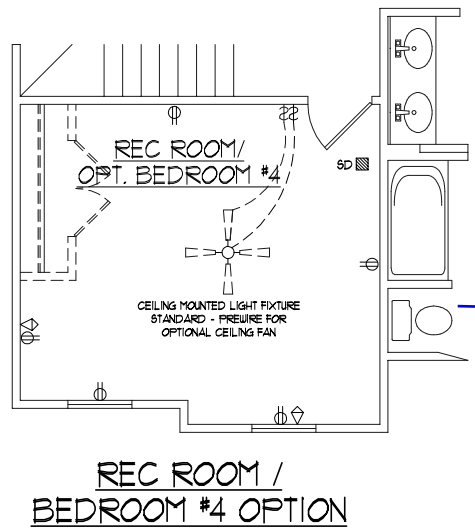
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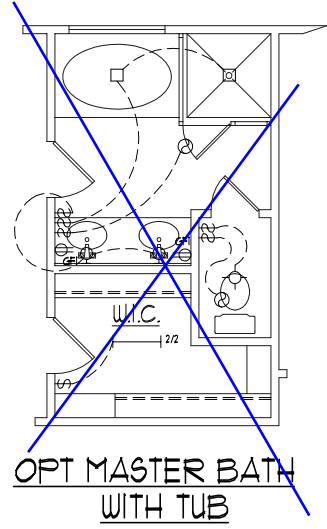
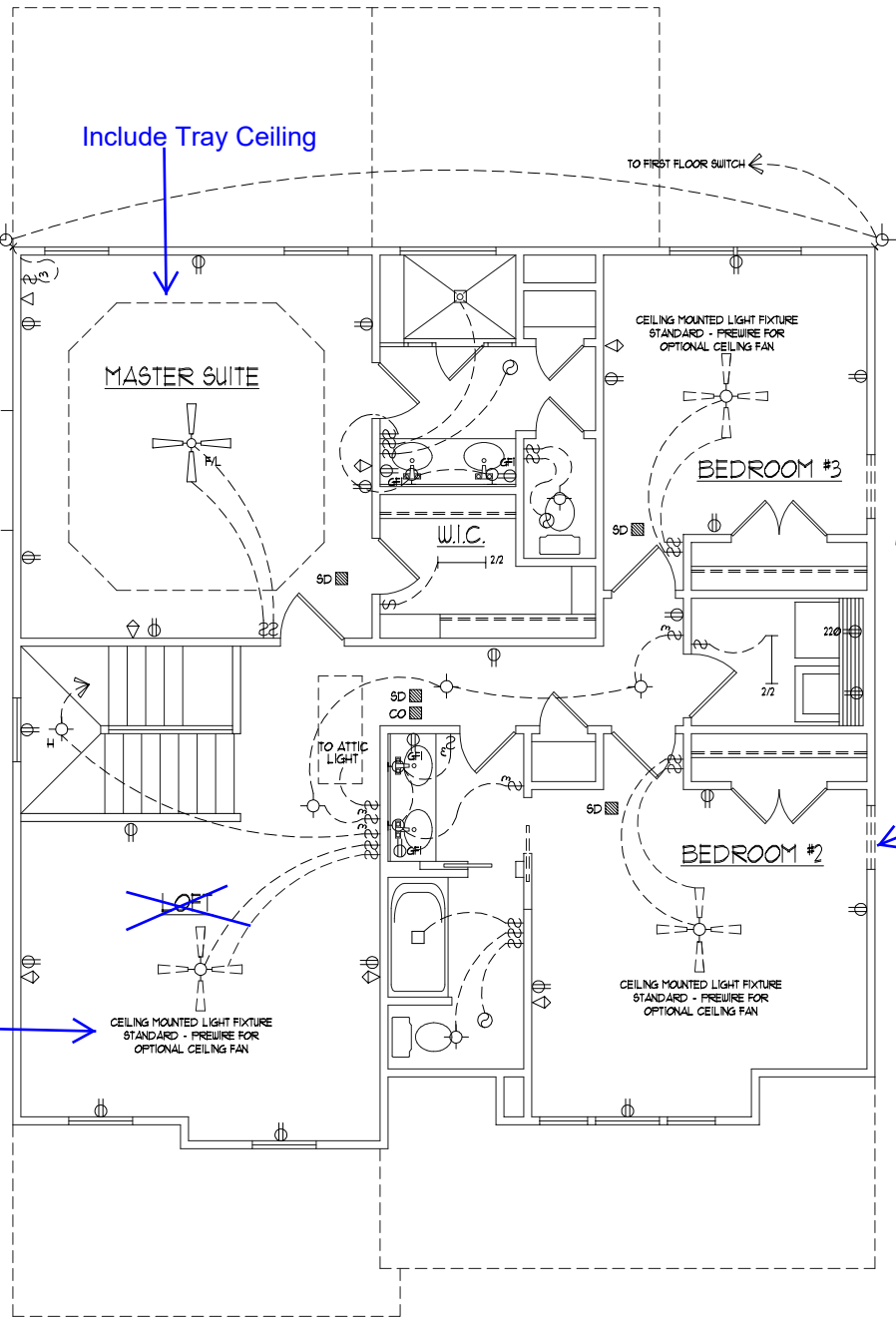


OPTIONAL
 SCREEN PORCH/BBQ DECK
 ELECTRICAL LAYOUT

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	SD	SMOKE DETECTOR
⊙	WALL MOUNTED LIGHT FIXTURE	CO	CARBON MONOXIDE DETECTOR
—	FLUORESCENT LIGHT 1/2 -- 1 BULB @ 2' 2/2 -- 2 BULB @ 2' 1/4 -- 1 BULB @ 4' 2/4 -- 2 BULB @ 4' 4/4 -- 4 BULB @ 4'	⊞	DOOR CHIMES
⊙	HANGING LIGHT FIXTURE	—	ELECTRICAL PANEL
▷	TELEPHONE JACK	⊞	METERBOX
◁	CABLE JACK	⊞	A/C UNIT
⊙	KEYLESS LIGHT FIXTURE	⊙	110 OUTLET
⊙	CEILING FAN WITH LIGHT FIXTURE	⊙	220 OUTLET
⊙	UNDER CABINET LIGHT	⊙	SINGLE SWITCH
		⊙	3-WAY SWITCH
		⊙	4-WAY SWITCH
		⊙	OUTDOOR OUTLET
		⊙	GFI

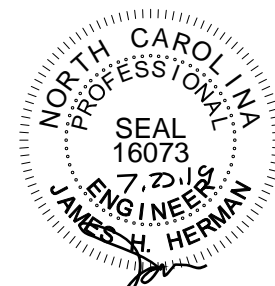


Include Bedroom #4



Include Windows

SECOND FLOOR
ELECTRICAL LAYOUT



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC 27611
LICENSE: C-12871, PHONE: 919-878-1611
PROJECT #: 16-1576-GR

- Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
- Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability.
- Seal is valid for 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.

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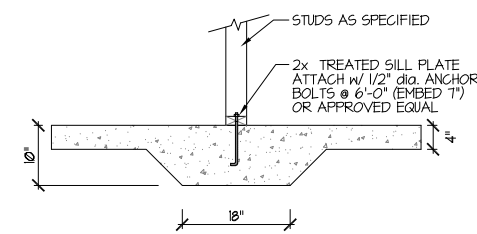
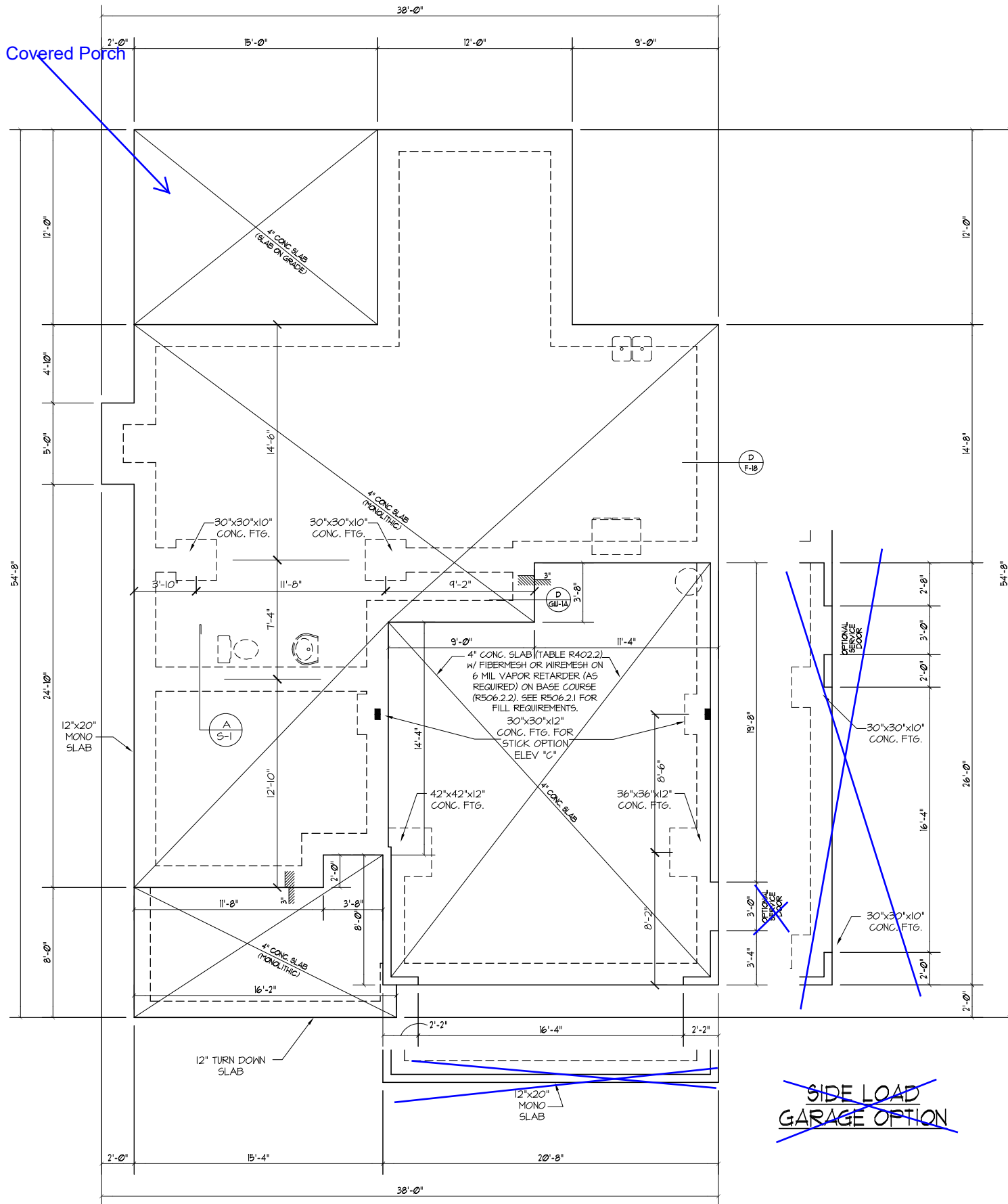
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S-1 T&S
SHEET

Include Covered Porch



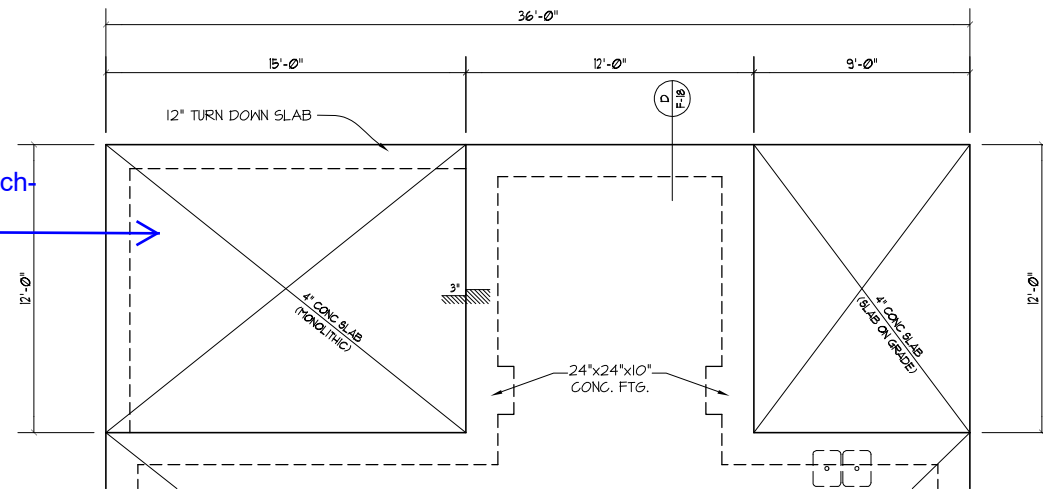
(A) TYPICAL THICKENED SLAB
NTS

NOTE ASSUMED SOIL BEARING CAPACITY = 2000 PSF
CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED

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

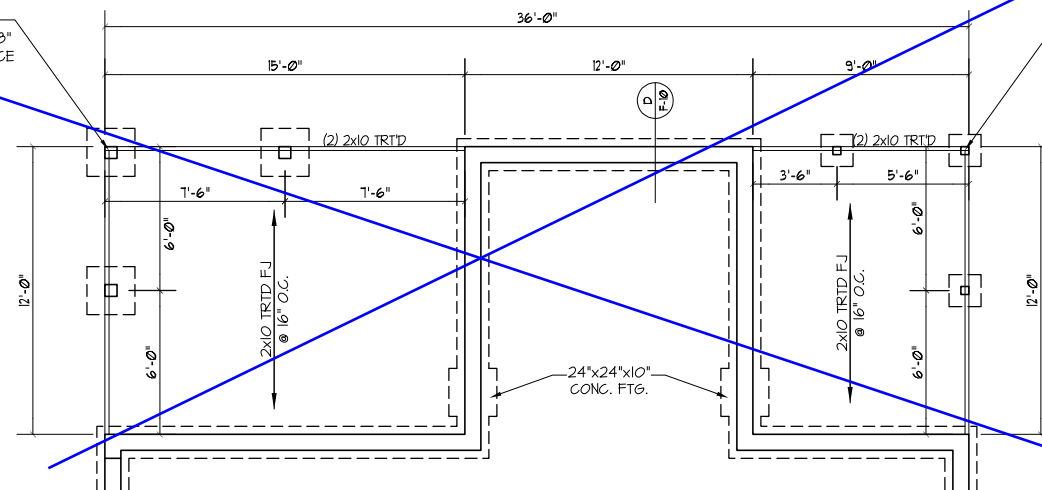
- NOTES:
- 1) SEE SHEET D-1A FOR DETAILS.
 - 2) DIMENSIONS ARE TO EXTERIOR OF FOUNDATION.

Include Covered Porch-
NO BBQ DECK



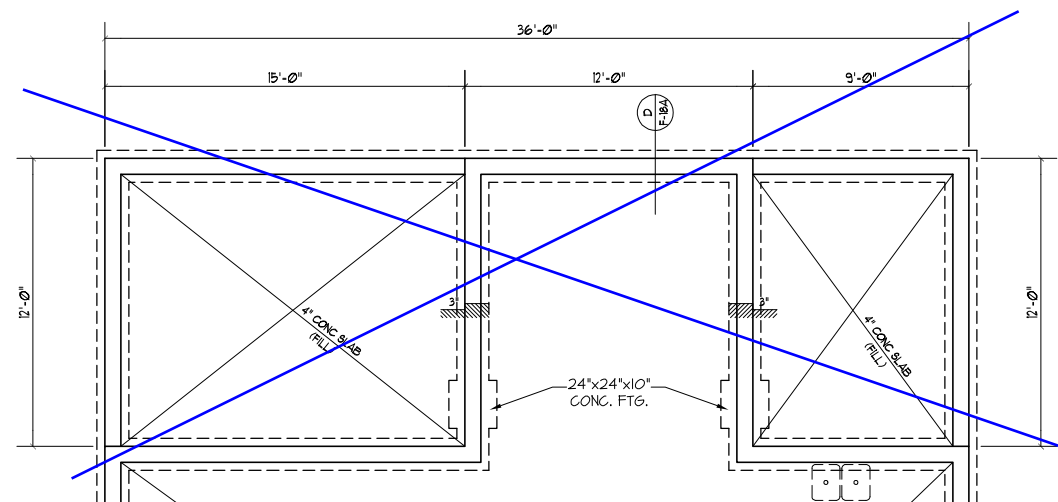
SCREEN PORCH/BBQ DECK
WITH MONOLITHIC FOUNDATION

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

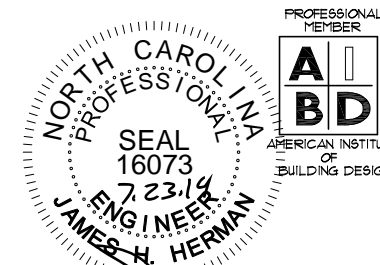


DECK:
4x4 P.T. POST ON 16"x16"x8"
CONCRETE FTG. (TYP). BRACE
POSTS PER APPENDIX M.

SCREEN PORCH/BBQ DECK
WITH CRAWLSPACE FOUNDATION



SCREEN PORCH/BBQ DECK
WITH STEM WALL/SLAB FOUNDATION



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PROJECT # 16-1576-GR
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DETAILS AND STRUCTURAL NOTES.

PROFESSIONAL MEMBER
A I B D
AMERICAN INSTITUTE OF BUILDING DESIGN

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SCREEN PORCH/BBQ DECK
FOUNDATION OPTIONS

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

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

HEADER / BEAM NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (1) SUPPORT STUD AND (1) KING 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 FOR HEADERS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:
 - UP TO 4' SPAN: (1) KING STUD E/E
 - OVER 4' AND TO 8' SPAN: (2) KING STUDS E/E
 - OVER 8' AND UP TO 10' SPAN: (3) KING STUDS E/E
 - OVER 10' SPAN: (4) KING STUDS E/E

WHOLE HOUSE BRACING SUMMARY

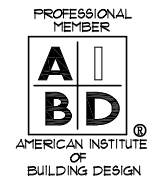
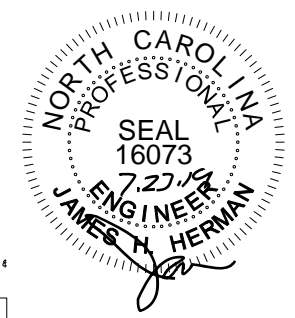
TOTAL REQUIRED BRACING: 102
TOTAL PROVIDED BRACING: 110
(IN FEET)

LVL SCHEDULE

ELEV C	
1 H	(3) 1.75x11.875-22'
2 H	(4) 1.75x18-22'
3 H	(2) 1.75x11.875-6'
4 H	(2) 1.75x11.875-12'
5 H	(2) 1.75x14-14'
6 H	(3) 1.75x11.875-12'
7 H	(2) 1.75x9.25-10'
1 V	(2) 1.75x9.25-4'

STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR., RALEIGH, NC (919) 878-1617
LICENSE: C-1287, PHONE: 919-878-1617
PROJECT # 16-1576-GR

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

FRAMING NOTES

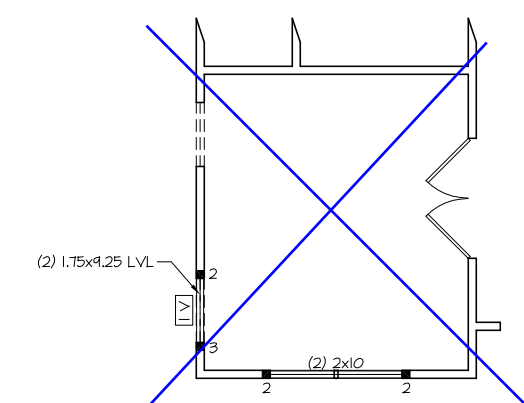
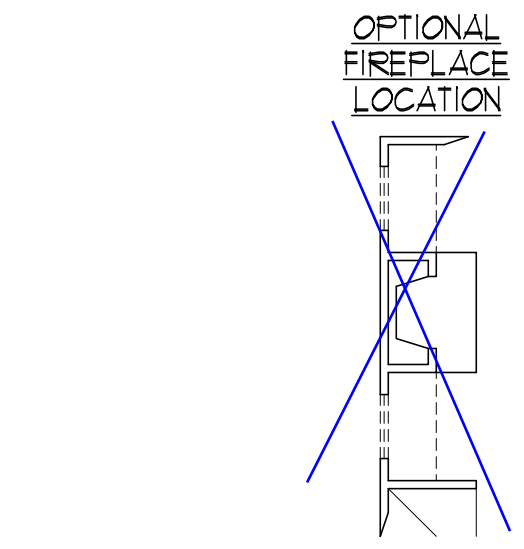
NC (2018 NCRC); Wind: 115-120 mph

- 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, 1/16", EXPOSURE C, 15/32"). SHEATHING SHALL BE ATTACHED WITH 8d NAILS AT A 6"1/2" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES.
- WSP SHEATHING SHALL EXTEND TO THE UPPERMOST DOUBLE BEARING FLATE. 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" = HOLDDOWN: 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 1/8" WSP SHEATHING WITH 8d NAILS AT A 6"1/2" NAILING PATTERN (6" OC AT PANEL EDGES AND 12" OC AT INTERMEDIATE SUPPORTS). INSTALL BLOCKING AT ALL PANEL EDGES. ATTACH GB OVER WSP AS REQUIRED. ATTACH OPPOSITE SIDE WITH 1/2" GB WITH A MIN. OF 5d COOLER NAILS OR #6 SCREWS @ 1" OC ALONG THE EDGES AND AT INTERMEDIATE SUPPORTS.

LVL SCHEDULE

SIDE LOAD GARAGE

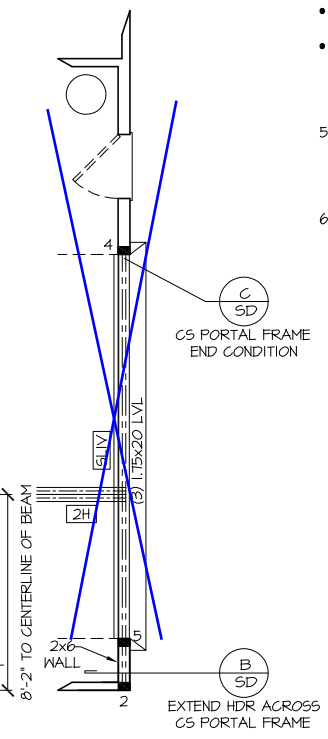
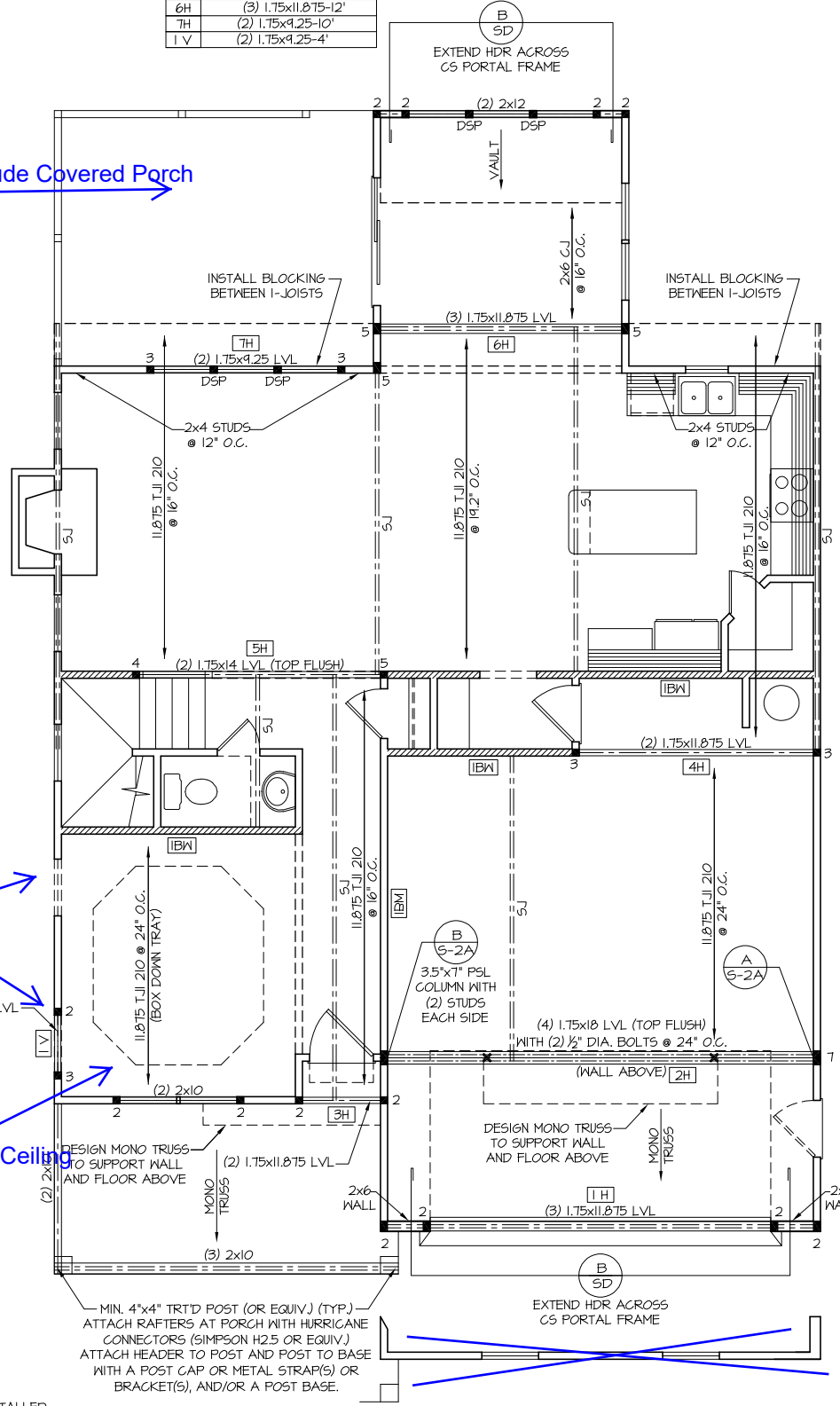
REMOVE	1 H	(3) 1.75x11.875-10'
ADD	5 LV	(3) 1.75x20-20'



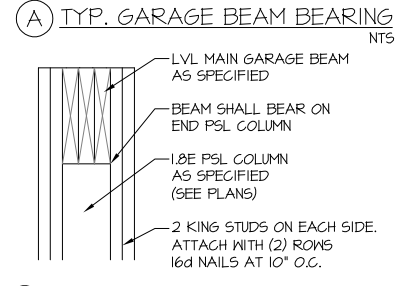
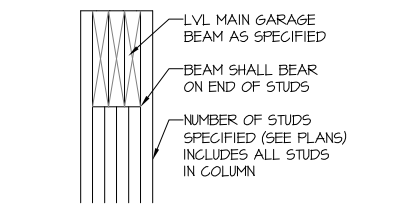
Include Windows

Include Tray Ceiling

Include Covered Porch



OPTIONAL SIDE LOAD



ELEVATION "A"
FIRST FLOOR CEILING / STRUCTURAL PLAN
SCALE: 1/8" = 1'-0"
(ROOF TRUSS)

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

WOOD "I" JOISTS
(SHALL BE ONE OF THE FOLLOWING):
• TJI 210 BY I-LEVEL
• LPI 20 PLUS BY LP
• BC1 5000s 1.8 BY BC

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

MIN. 4"x4" TRTD POST (OR EQUIV.) (TYP.)
ATTACH RAFTERS AT PORCH WITH HURRICANE CONNECTORS (SIMPSON H25 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.

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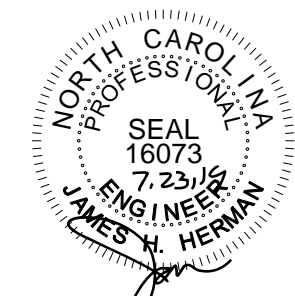
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LOCATION: MULTI
LOT: MULTI
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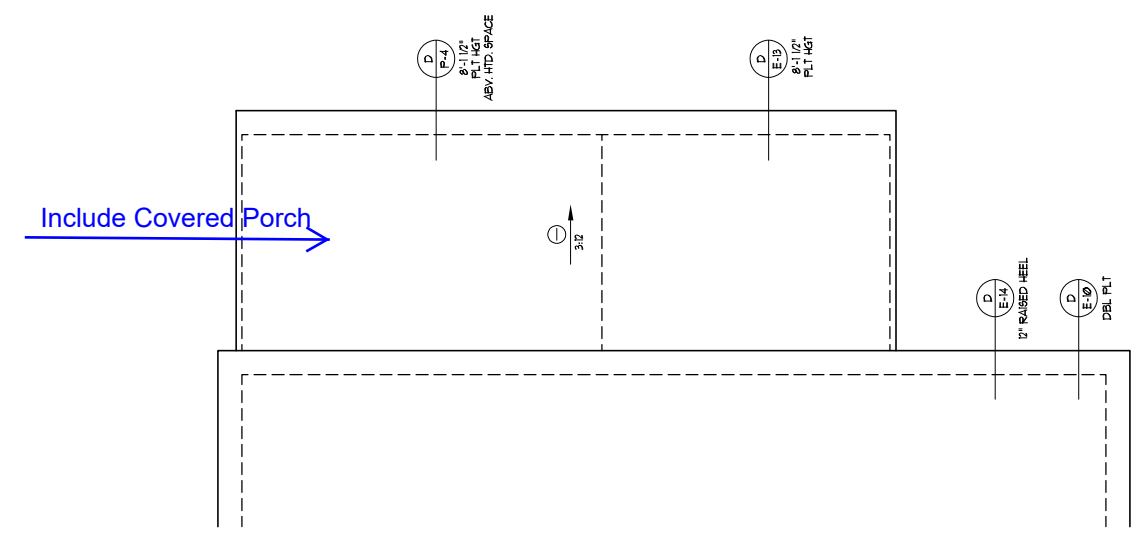
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SHEET



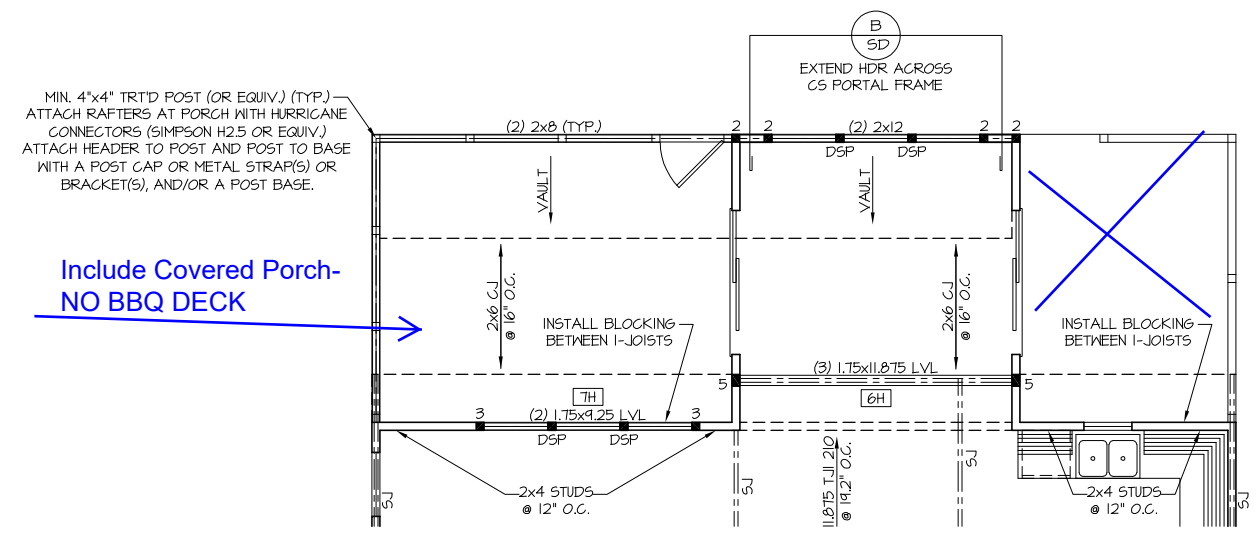
STRUCTURAL DESIGN BY:
 SOUTHERN ENGINEERS, P.A.
 3716 BENSON DR., RALEIGH, NC 27614 (919) 878-1617
 LICENSE: C-1287, PHONE: 919-878-1611
 PROJECT # 16-1576-GR

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ROOF FRAMING PLAN



CEILING / STRUCTURAL PLAN

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

NOTES:
 1) SHADED WALLS DENOTE LOAD BEARING WALLS.
 2) ■ DENOTES SOLID STUDS.
 3) SEE SHEET D-1B FOR DETAILS.

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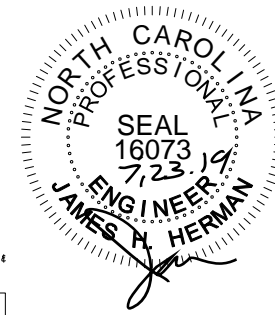
CAPITOL
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 PLAN I.D. DATE

S-2 SCR PORCH OPTION
 SHEET

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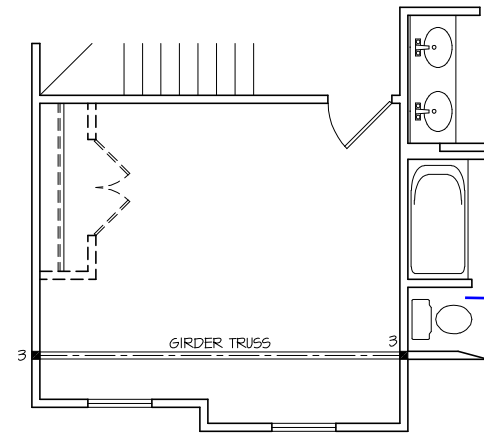
TRUSS SYSTEM REQUIREMENTS

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

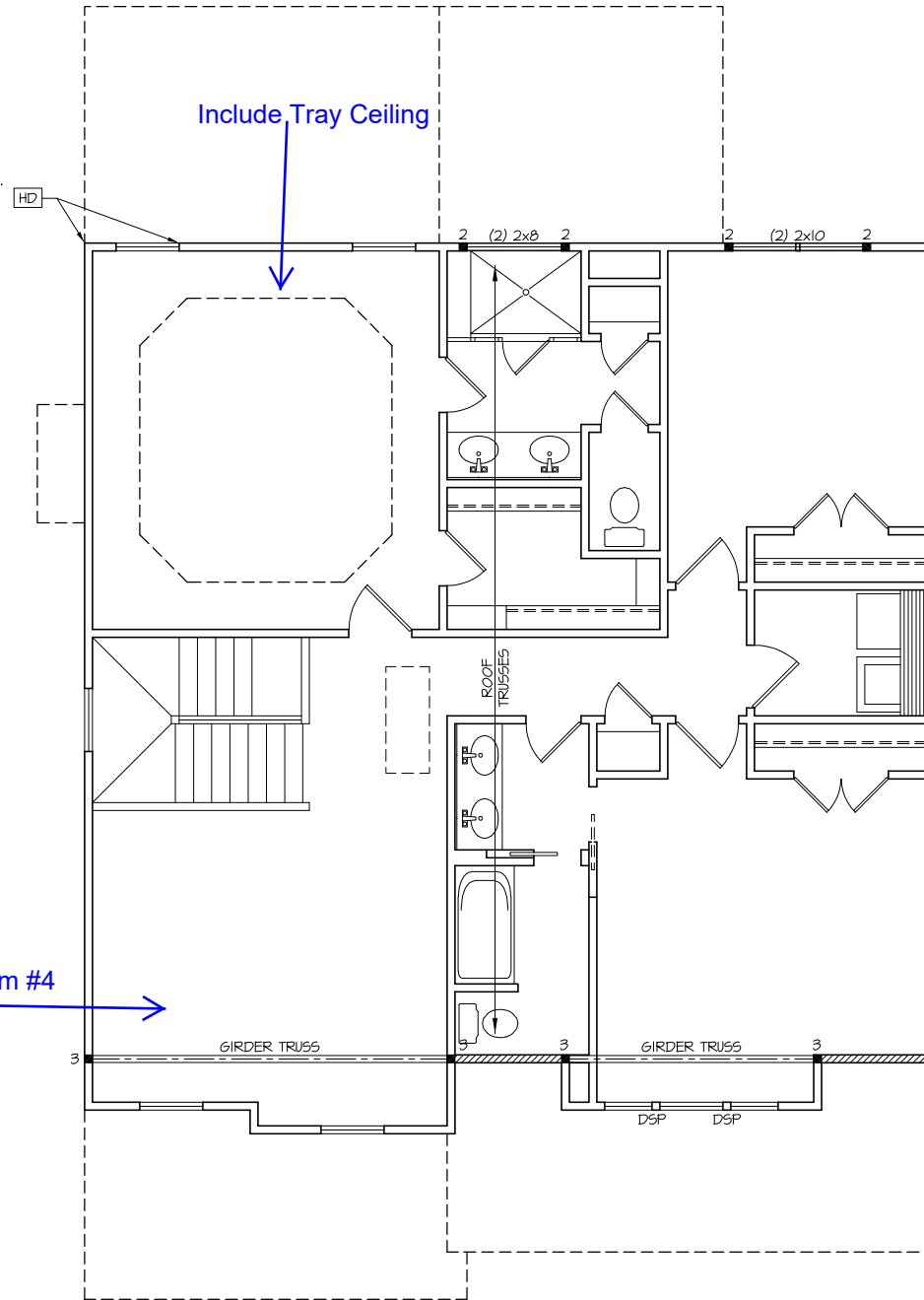
- TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED STRUCTURAL PLANS. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH SOUTHERN ENGINEERS.
- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING 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.

HEADER / BEAM NOTES

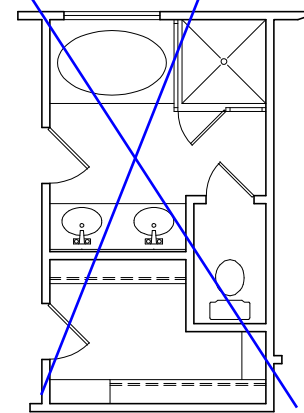
- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2)2x6 (4" WALL) OR (3)2x6 (6" WALL) WITH (1) SUPPORT STUD AND (1) KING STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS FOR HEADERS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:
 - UP TO 4' SPAN: (1) KING STUD E/E
 - OVER 4' AND TO 8' SPAN: (2) KING STUDS E/E
 - OVER 8' AND UP TO 10' SPAN: (3) KING STUDS E/E
 - OVER 10' SPAN: (4) KING STUDS E/E



REC. ROOM / BEDROOM #4
OPTION



OPTIONAL MASTER BATHROOM LAYOUT



FRAMING NOTES

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 - **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/ (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.
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ELEVATION "A"
SECOND FLOOR CEILING/
STRUCTURAL PLAN
SCALE: 1/8" = 1'-0"
(TRUSS ROOF)

NOTES:
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2) ■ DENOTES SOLID STUDS.

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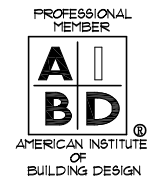
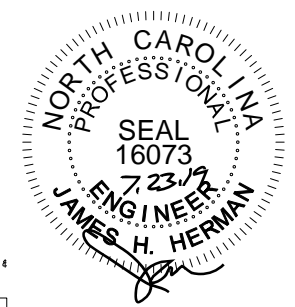
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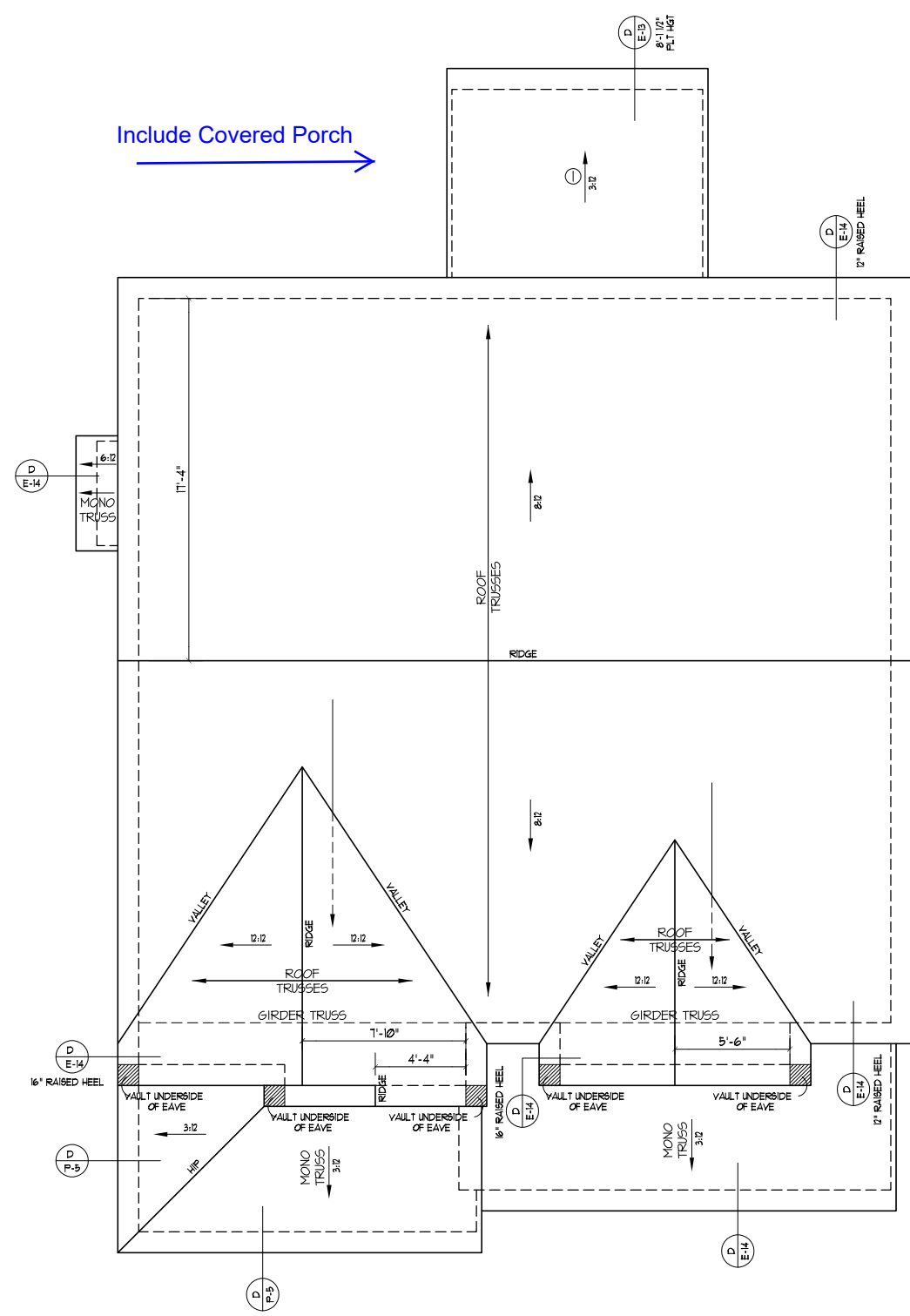
S-3A_T
SHEET

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REFER TO "SD" SHEET(S) FOR
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 - 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.



- ROOF FRAMING NOTES:**
 NC (2018 NCRG): Wind: 115-120 mph
- 2x8 @ 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 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.

ATTIC VENTILATION	
REQUIRED	1688 SQ. FT. OF ATTIC / 300 = 5.63 SQ. FT. OF INLET & OUTLET
PROVIDED (INLET)	SOFFIT 07 SQ. FT. PER x 64 LINEAR FT. = 4.48 SQ. FT. (TOTAL OF 46% OF VENT. INLET)
PROVIDED (OUTLET)	RIDGE 11 SQ. FT. PER x 48 LINEAR FT. = 5.28 SQ. FT. (TOTAL OF 54% OF VENT. OUTLET)
	9.76 TOTAL SQ. FT. OF VENT.

ELEVATION "A"
ROOF FRAMING PLAN
ROOF TRUSS
 SCALE: 1/8" = 1'-0"

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

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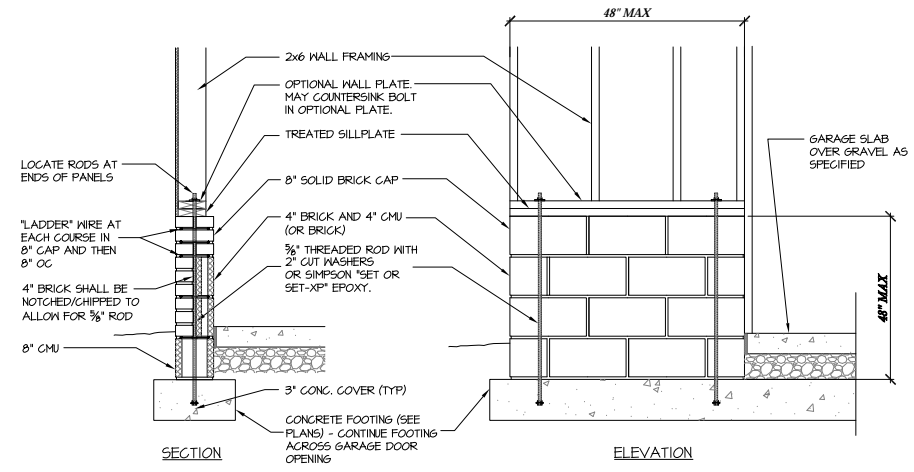
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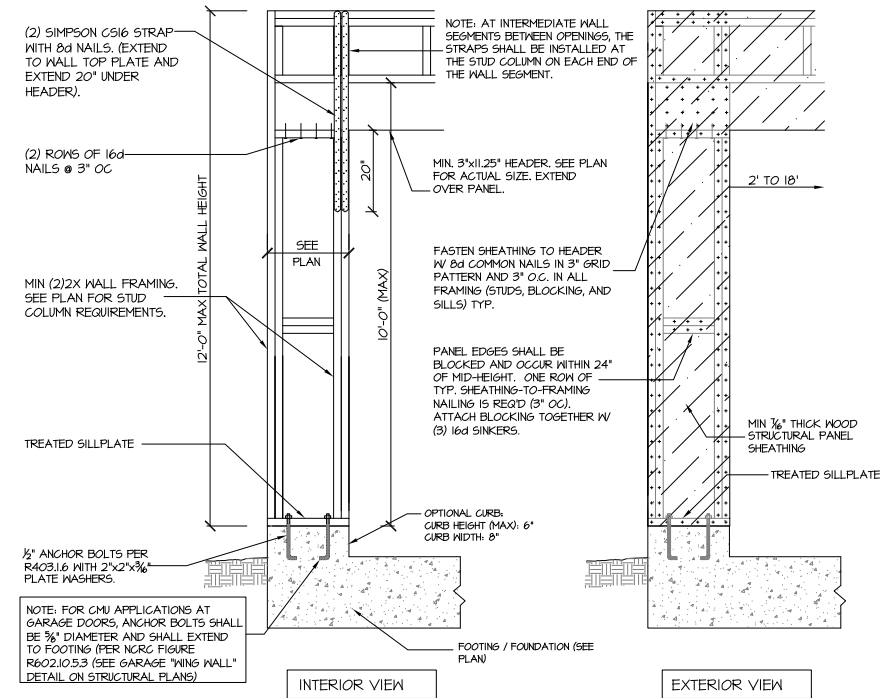
STRUCTURAL NOTES

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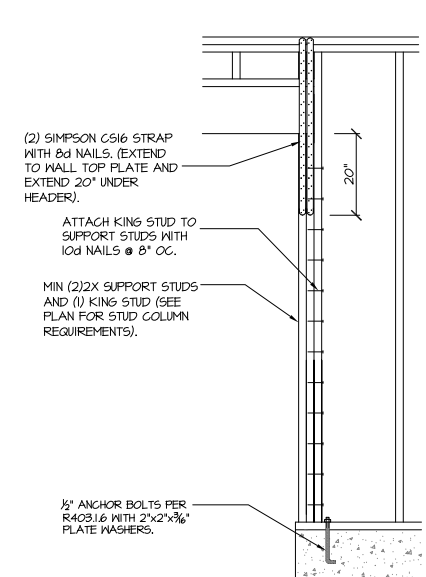
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL 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 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/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 SFF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SFF # 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=2900 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 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. 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.



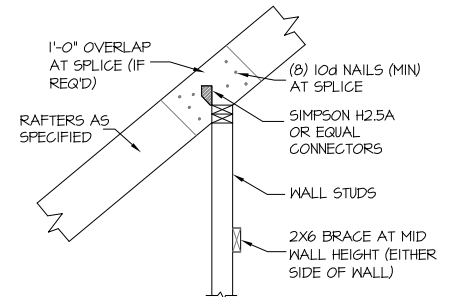
(A) GARAGE 'WING WALL' REINFORCING
(CODE REFERENCE: IRC FIGURE R602.10.5.3)



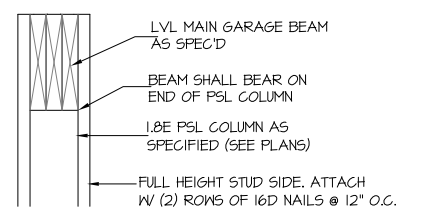
(B) CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



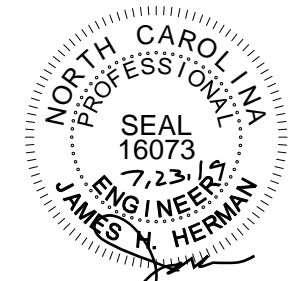
(C) END CONDITION DETAIL
(FOR USE WITH SINGLE C5-PF CONDITION) DETAIL AND APPLICATION BASED ON NCRG FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



302A TYPICAL RAFTER SUPPORT ON ATTIC KNEEWALL
NTS.



204D TYP. GARAGE BEAM BEARING
NTS.



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DR. RALEIGH, NC (919) 878-1617
LICENSE: C-1287, PHONE: 919-878-1617
PROJECT # 16-1576-GL
Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, procedures or safety precautions.
Any deviations or discrepancies on plans are to be brought to the immediate attention of Southern Engineers. Failure to do so will void Southern Engineer's liability.
Seal is valid for 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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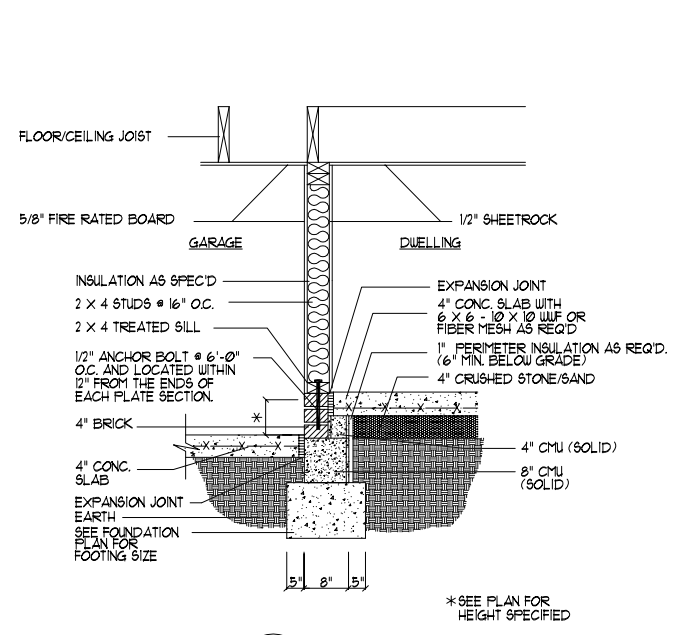
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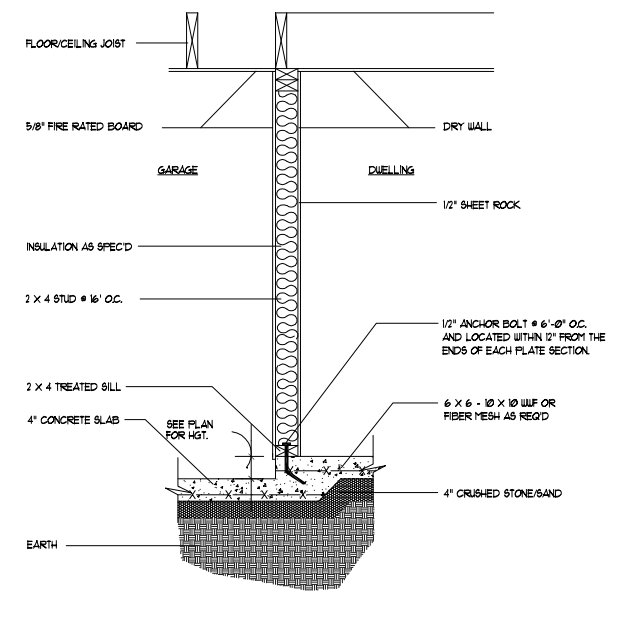
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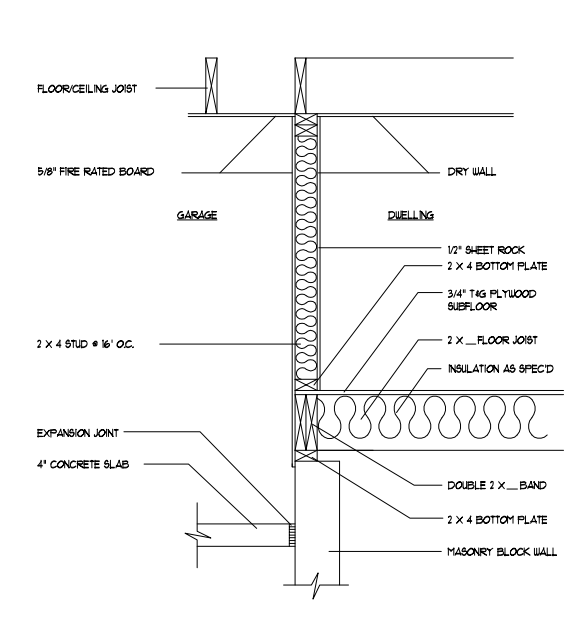
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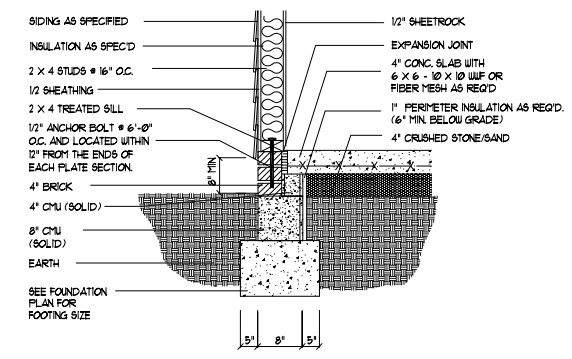
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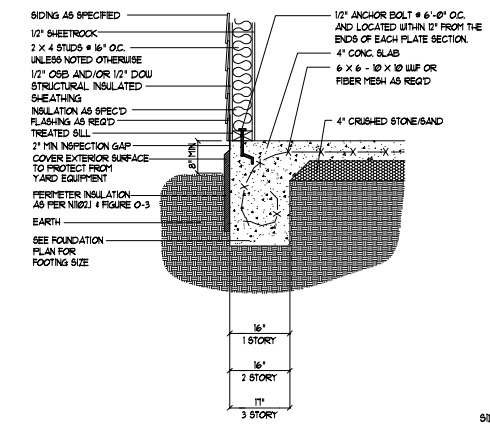
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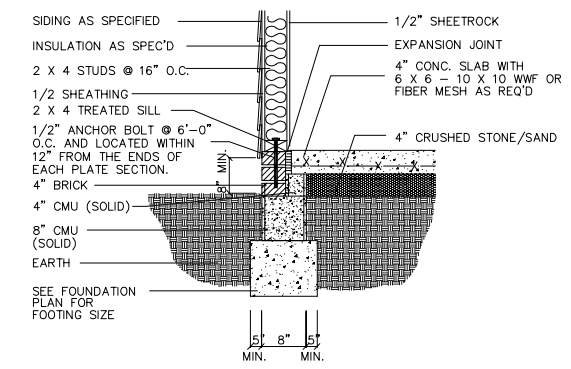
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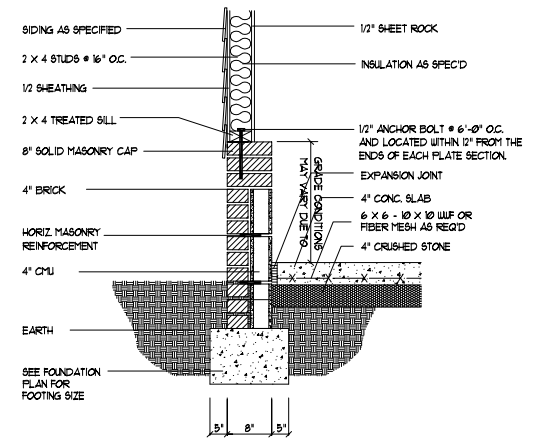
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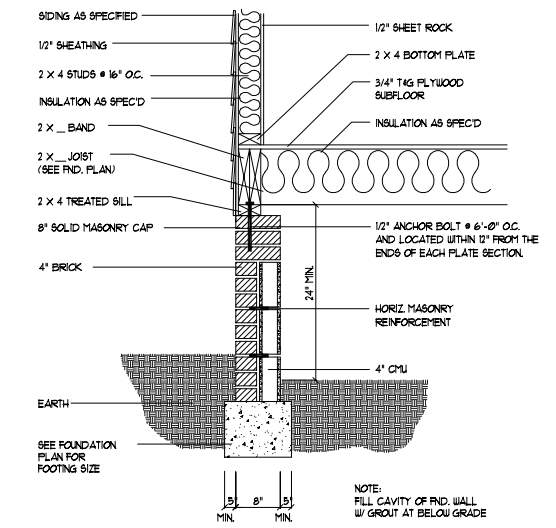
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D
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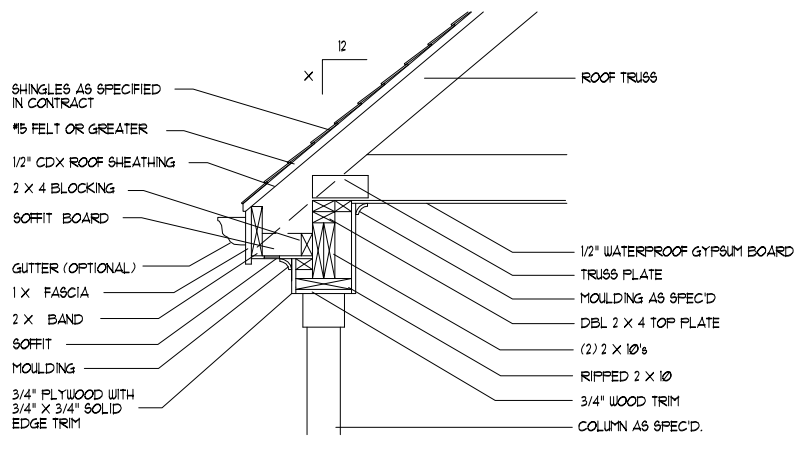
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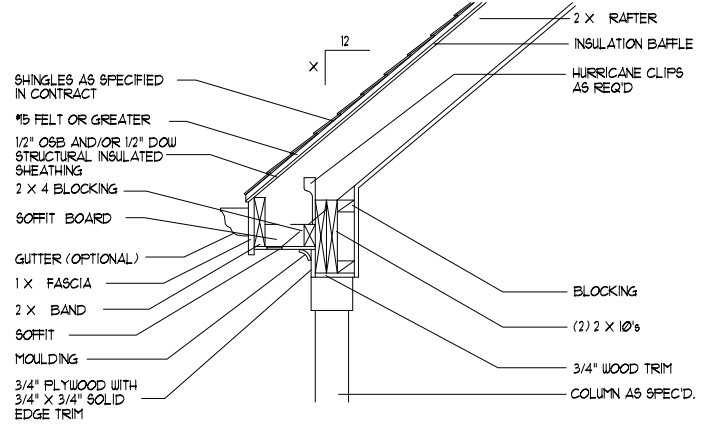
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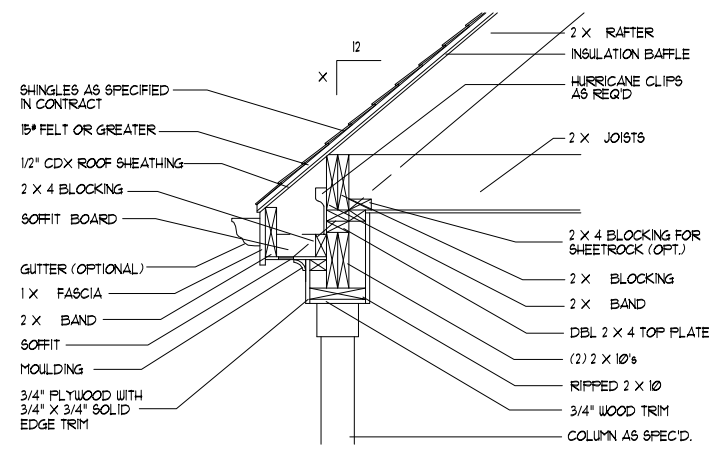
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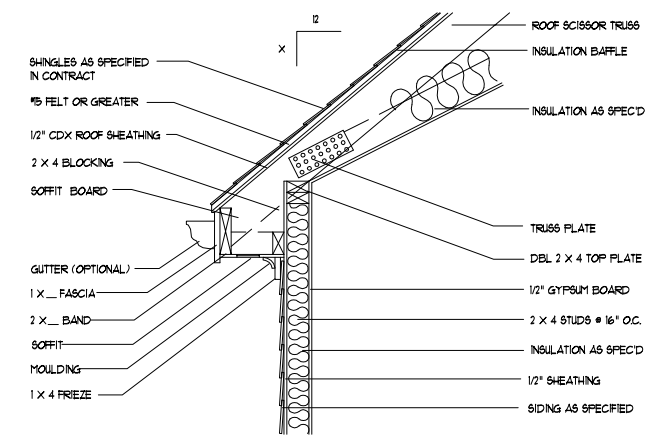
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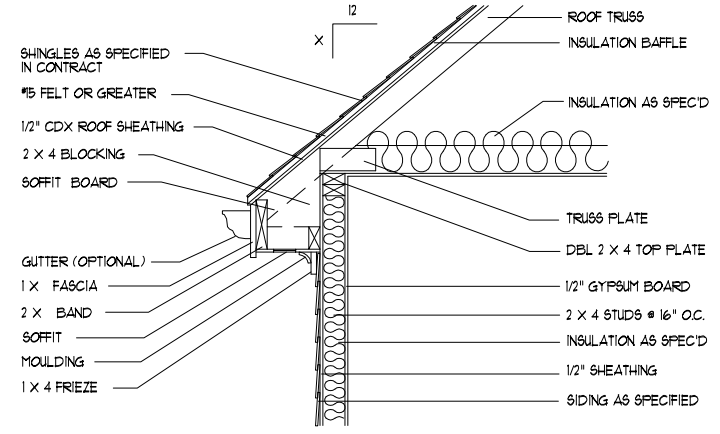
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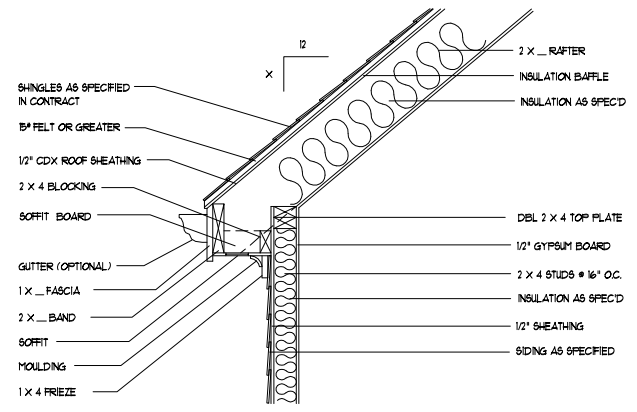
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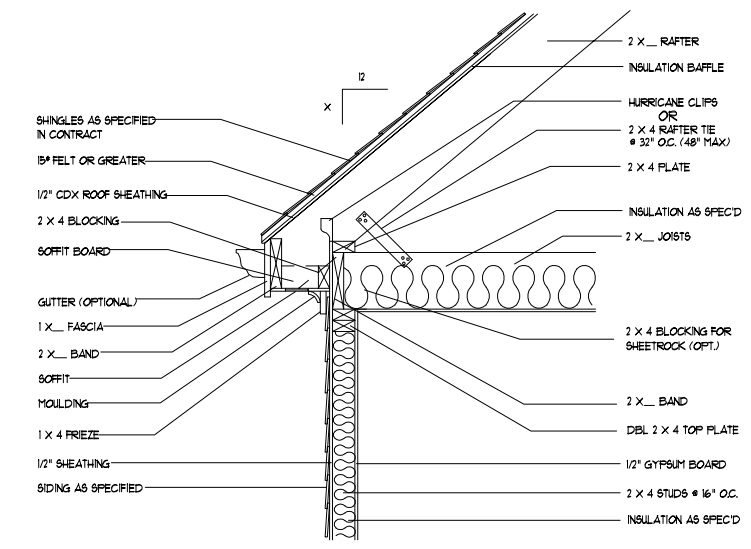
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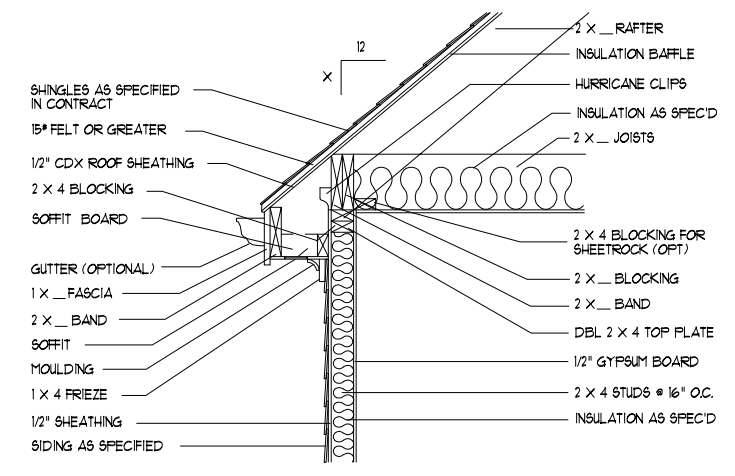
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D
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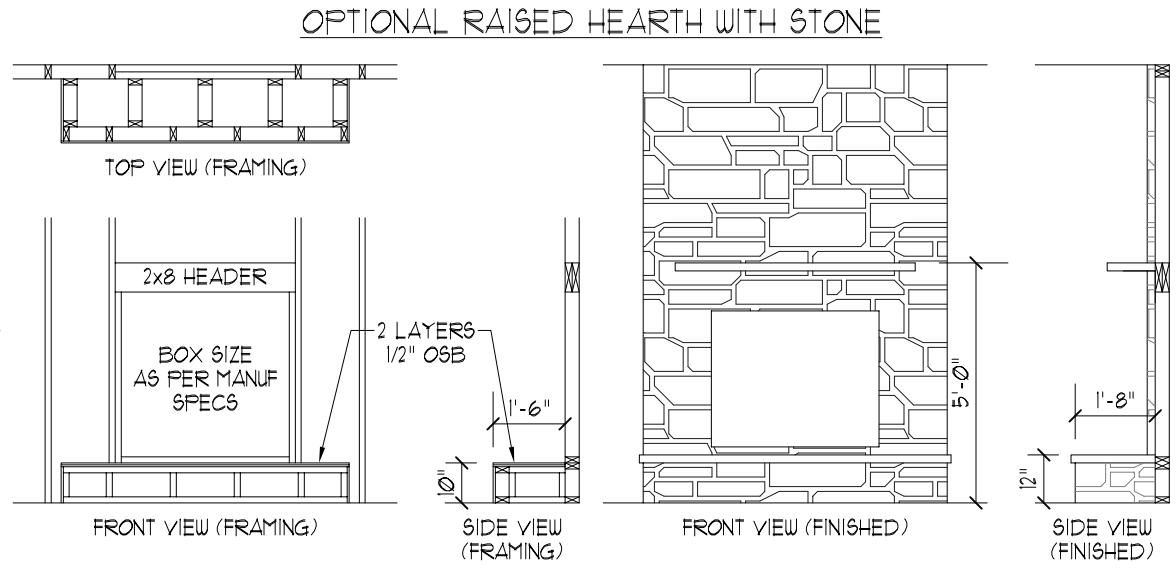
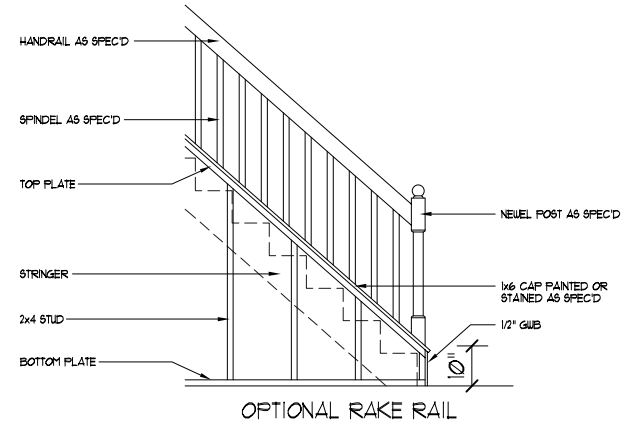
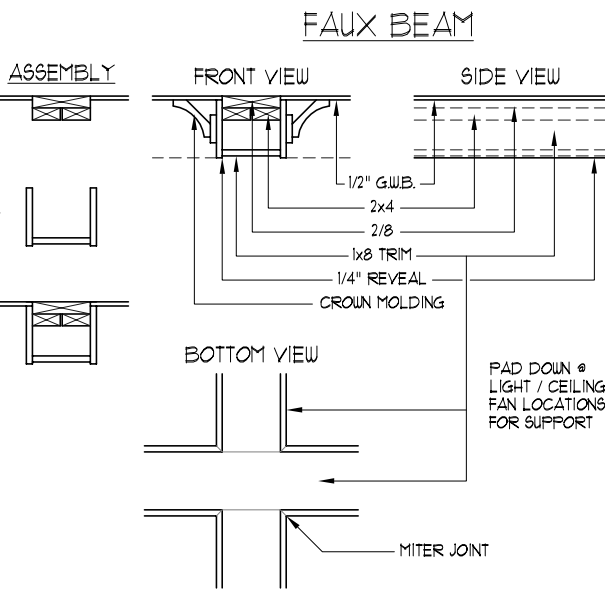
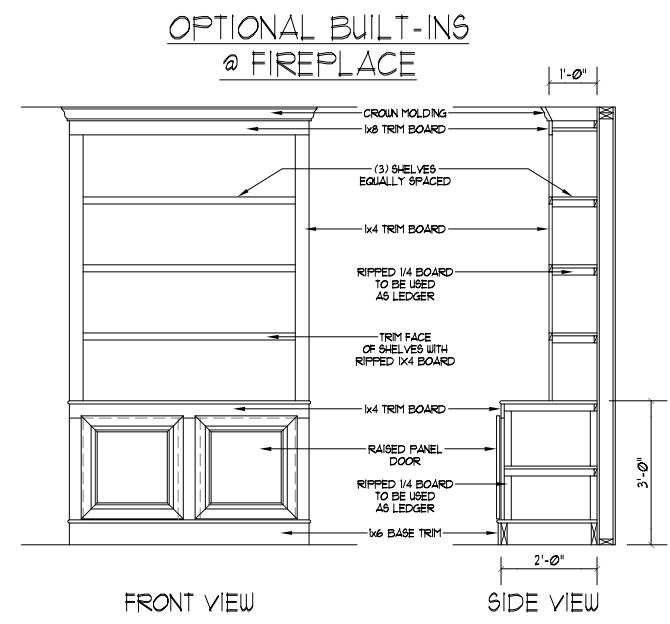
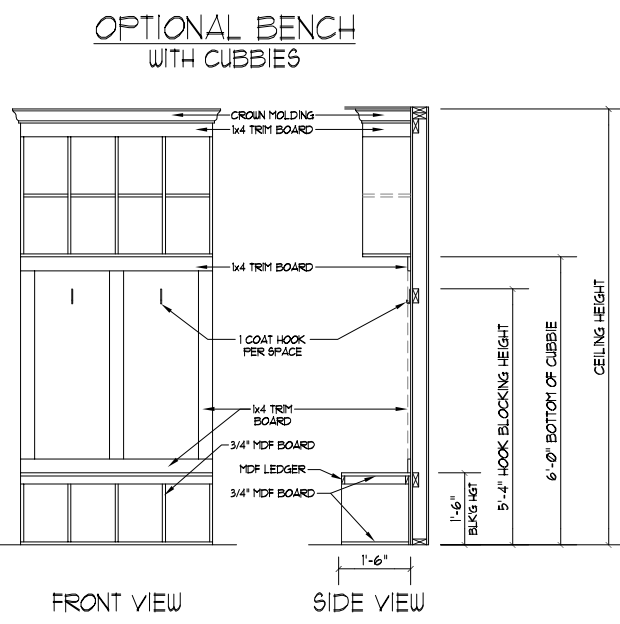
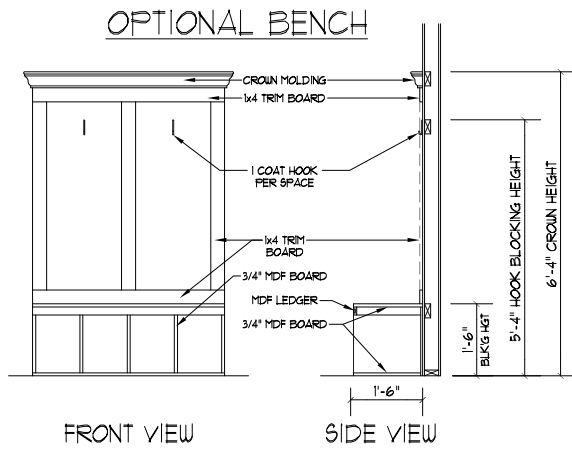
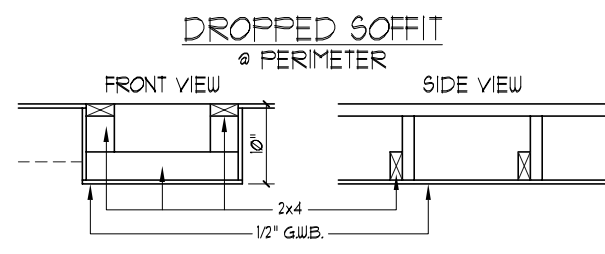
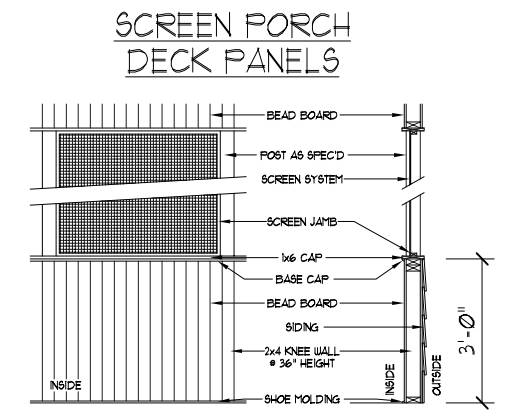
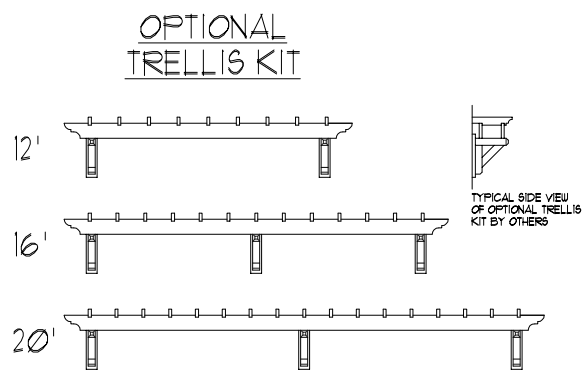
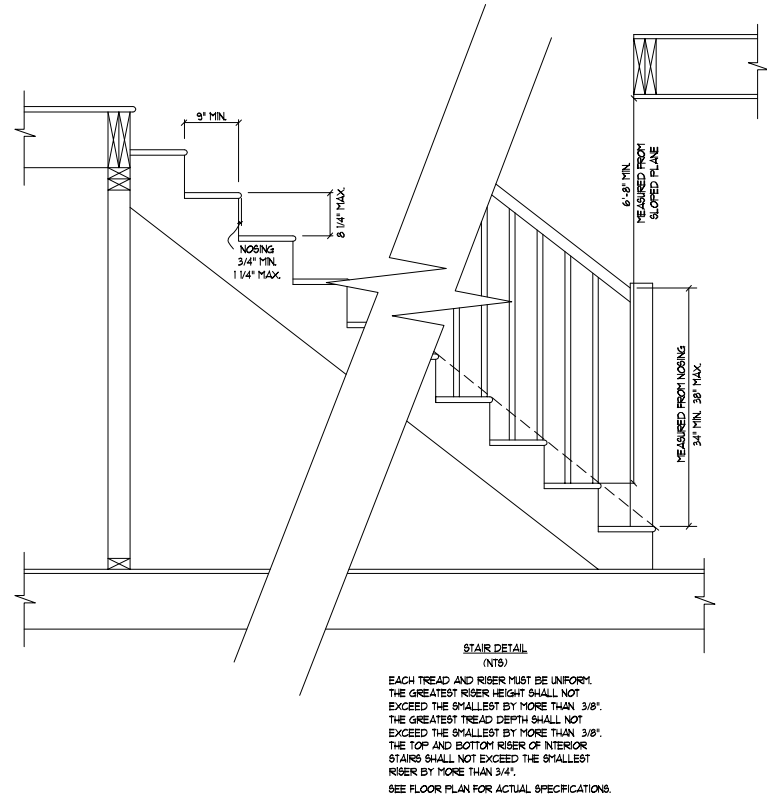
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