

Academy at Anderson Creek 1113 - 187 Scholar Drive, Spring Lake, 28390
 Harnett County
 Created: 4/5/2021

House Plan: Paxton III
 Elevation: A
 Stone/Brick Option: Option #1 see MSS
 Foundation: Crawl
 Foundation Finish: 3 Sides Parged
 Garage Hand: Right
 Garage: 2 Car Front
 Garage Door: (2) 8x8
 Front Porch: Concrete
 Roof: Truss
 Siding: Fiber Cement
 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 only, 5/0 side&rear
 Windows 2nd Floor: 5/0

OPTIONS
 10 ft. Depth Screen Porch
 Study in Lieu of Bedroom #5
 Rec Room
 Trey Ceiling in Master Bedroom

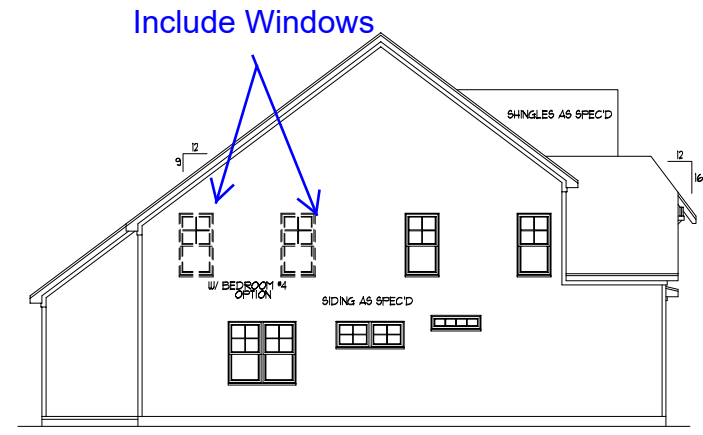
Total Heated SQ FT: 3026
 Total Unheated SQ FT: 672
 Total SQ FT: 3698

Bedrooms: 4+ Rec Room + Study
 Full Bathrooms: 3
 Half Bathrooms: 0



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

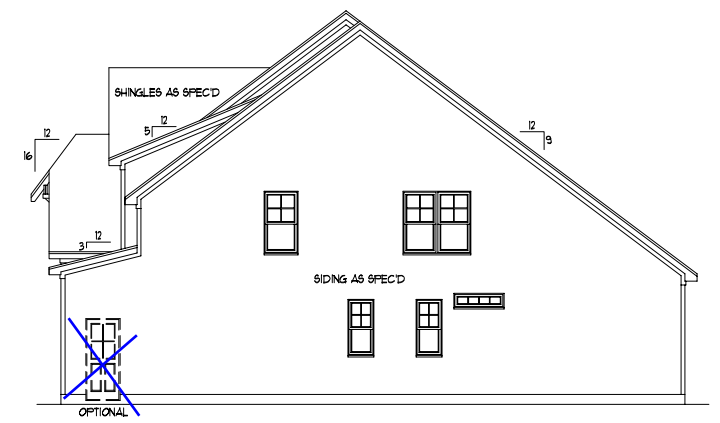
FRONT ELEVATION "A"
 SCALE: 1/8" = 1'-0"
 STONE OPTION #1



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



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



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

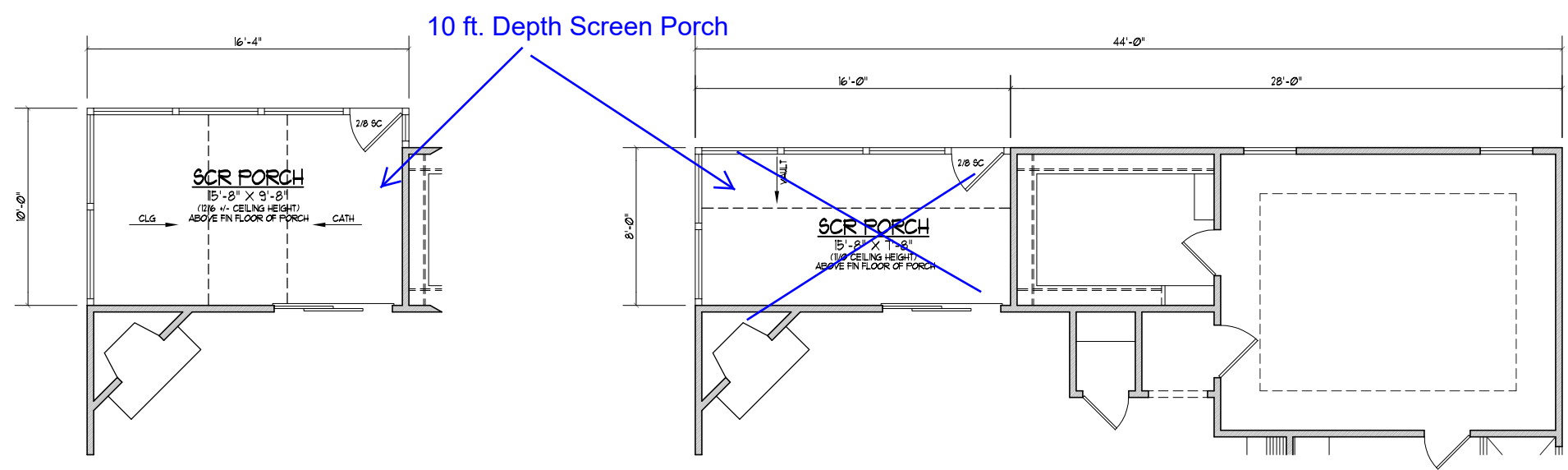
DYNAMIC DESIGN GROUP, INC
 David D Grorud
 (919) 601-1406
 DynamicDesignGroup@gmail.com

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

PAXTON III
 PLAN NAME
B-2379-44GR
 PLAN I.D.
2-2-21
 DATE

A-1A
 SHEET



10 FT DEPTH SCREEN PORCH OPTION
 SCALE: ----- 1/8" = 1'-0"
 161 SQ. FT. SCREEN PORCH

SCREEN PORCH
 SCALE: ----- 1/8" = 1'-0"
 128 SQ. FT. SCREEN PORCH



SCREEN PORCH
 OPTIONS

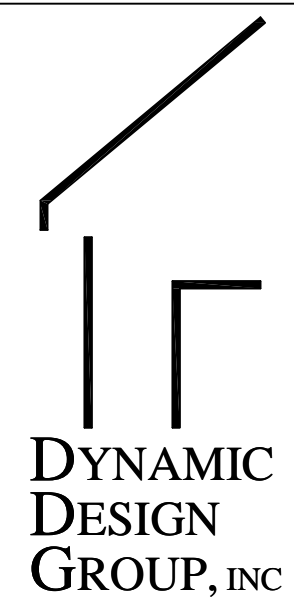
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B-2379-44GR 2-2-21 DATE
 PLAN I.D.

A-2 SCREEN PORCH OPTIONS SHEET



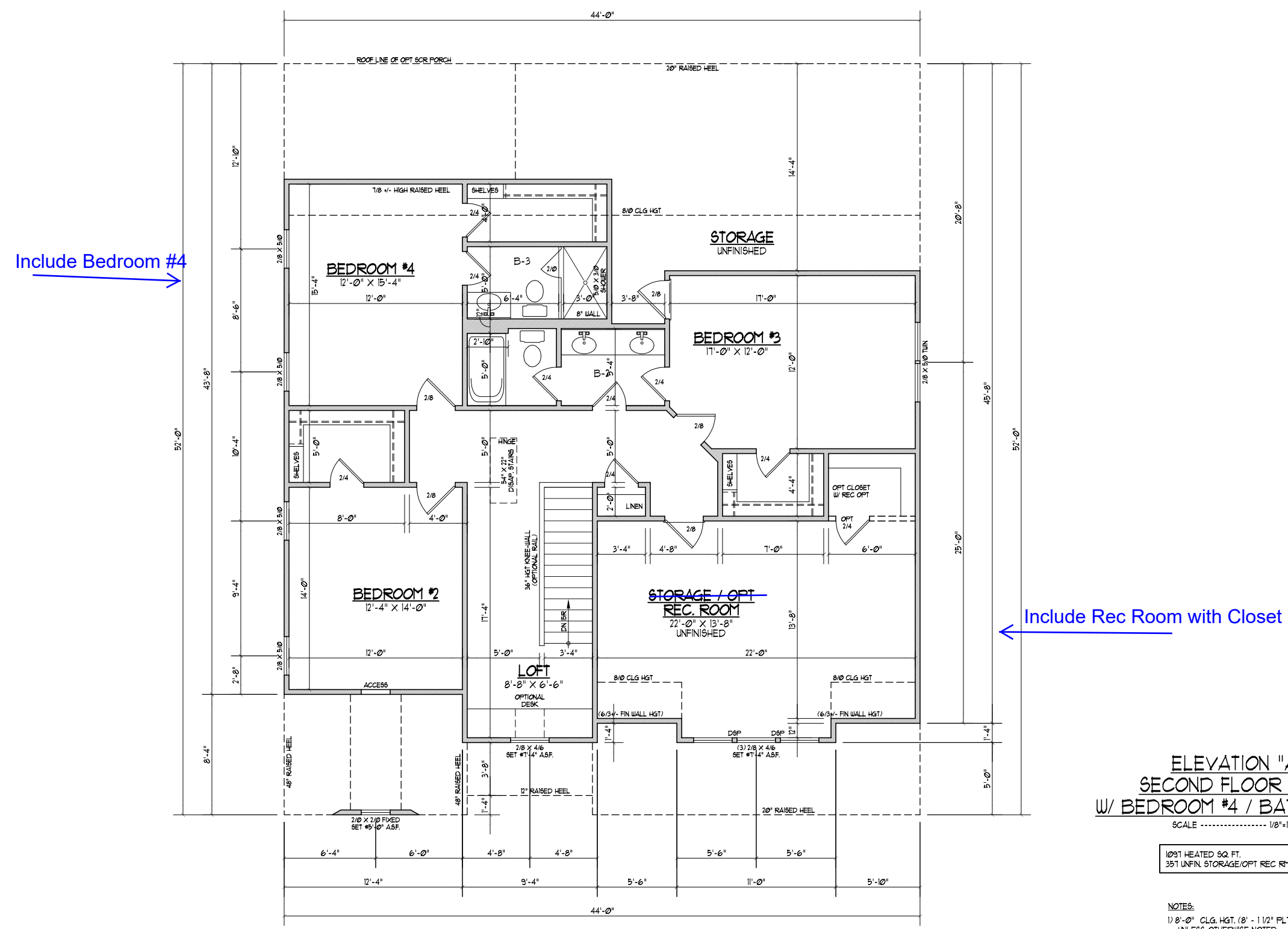
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PAXTON III
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B-2379-44GR 2-2-21
 PLAN I.D. DATE

A-3A
 SHEET



ELEVATION "A"
 SECOND FLOOR PLAN
 W/ BEDROOM #4 / BATH OPTION
 SCALE ----- 1/8"=1'-0"

1091 HEATED SQ. FT.
 351 UNFIN. STORAGE/OPT REC RM SQ. FT.

- NOTES:
- 1) 8'-0" CLG. HGT. (8' - 1 1/2" FLT. HGT.) UNLESS OTHERWISE NOTED.
 - 2) ALL WALLS DRAWN 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.
 - 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPENINGS.

OPTIONAL ELECTRICAL ITEMS
 WITH ALL LIGHTS LISTED RESPECTIVE SWITCHES ARE ASSUMED

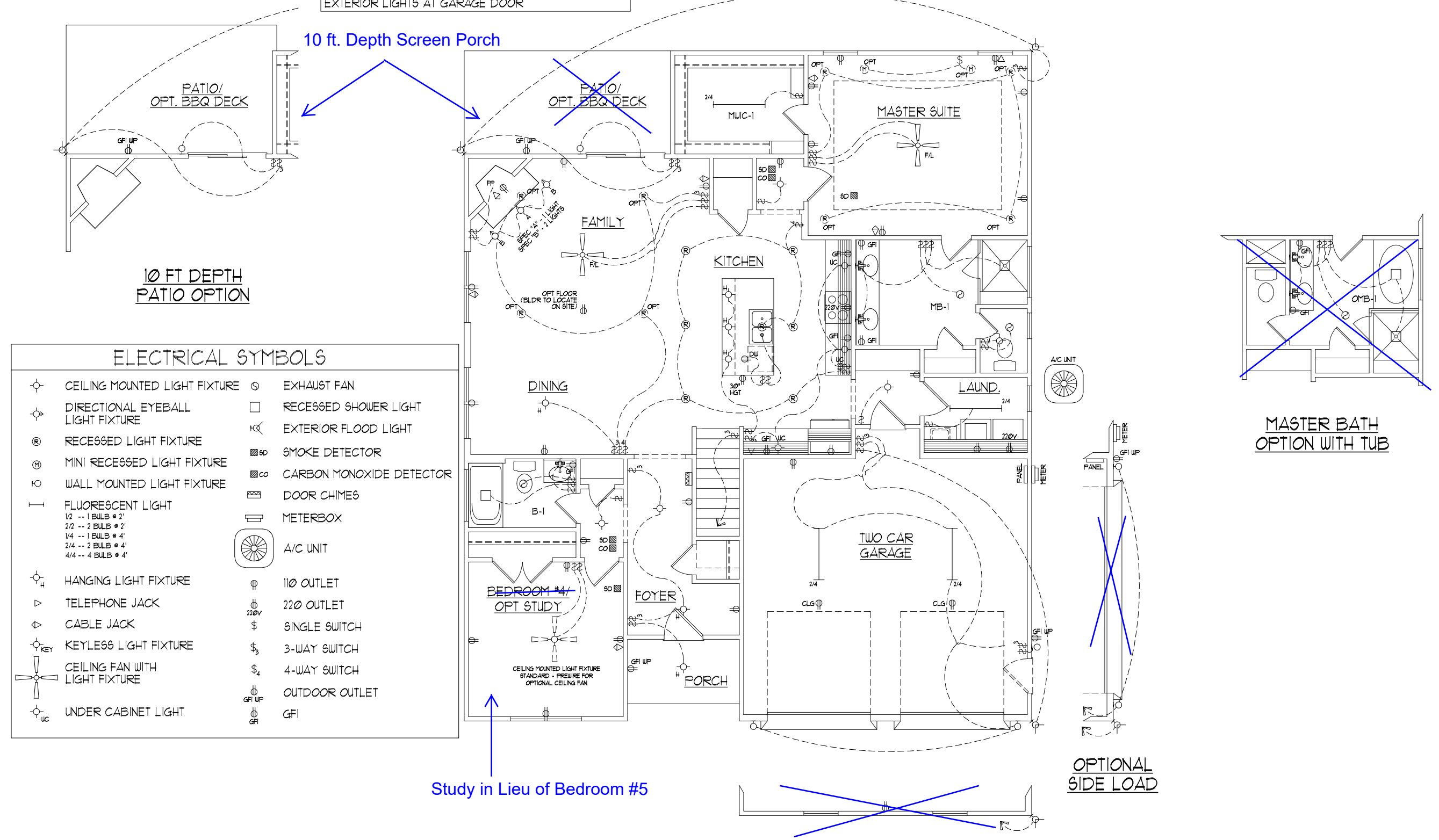
RECESSED LIGHTS
FLUORESCENT LIGHT IN LIEU OF RECESSED CANS @ KITCHEN ONLY
CEILING FANS IN LIEU OF FLUSH MOUNT
FLOODLIGHTS
HANGING LIGHTS @ KITCHEN
UNDER CABINET LIGHTS
EXTERIOR LIGHTS AT GARAGE DOOR

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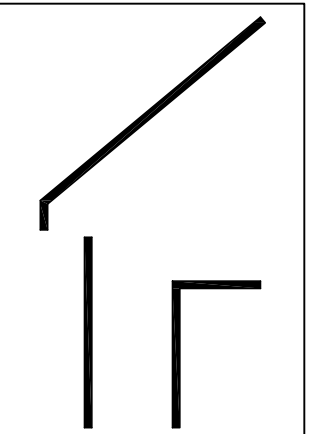
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PAXTON III
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B-2379-44GR 2-2-21
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E-1
 SHEET



FIRST FLOOR ELECTRICAL LAYOUT



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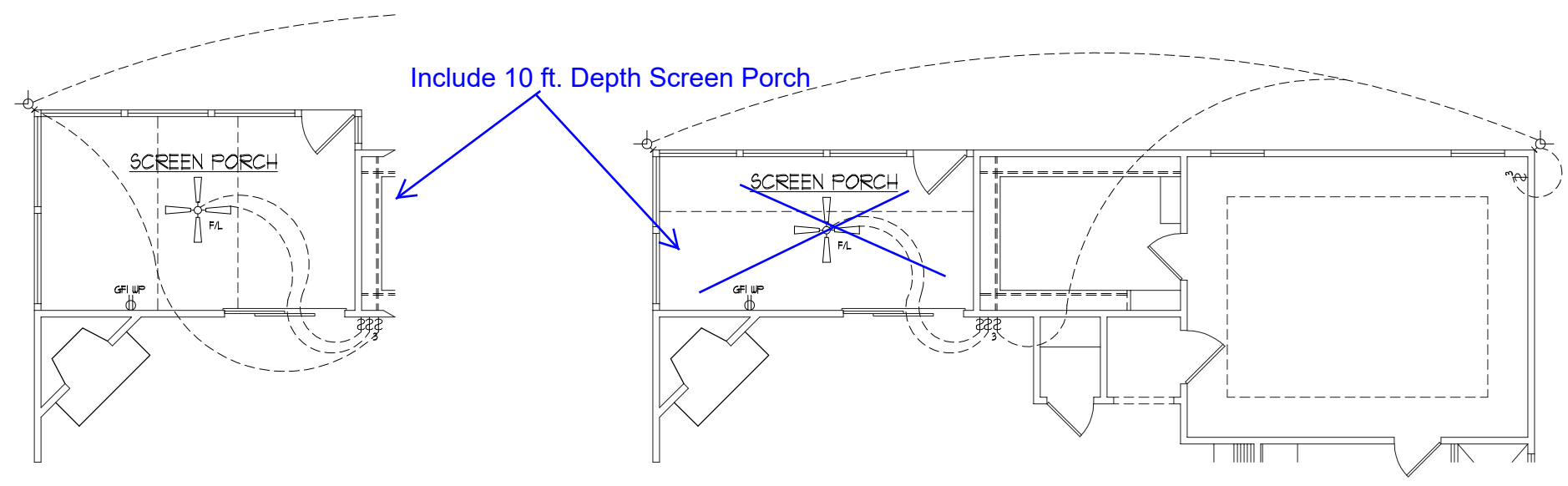
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E-1 SCREEN PORCH OPTIONS
 SHEET



10 FT DEPTH SCREEN PORCH OPTION

8 FT DEPTH SCREEN PORCH OPTION

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

OPTIONAL SCREEN PORCHES

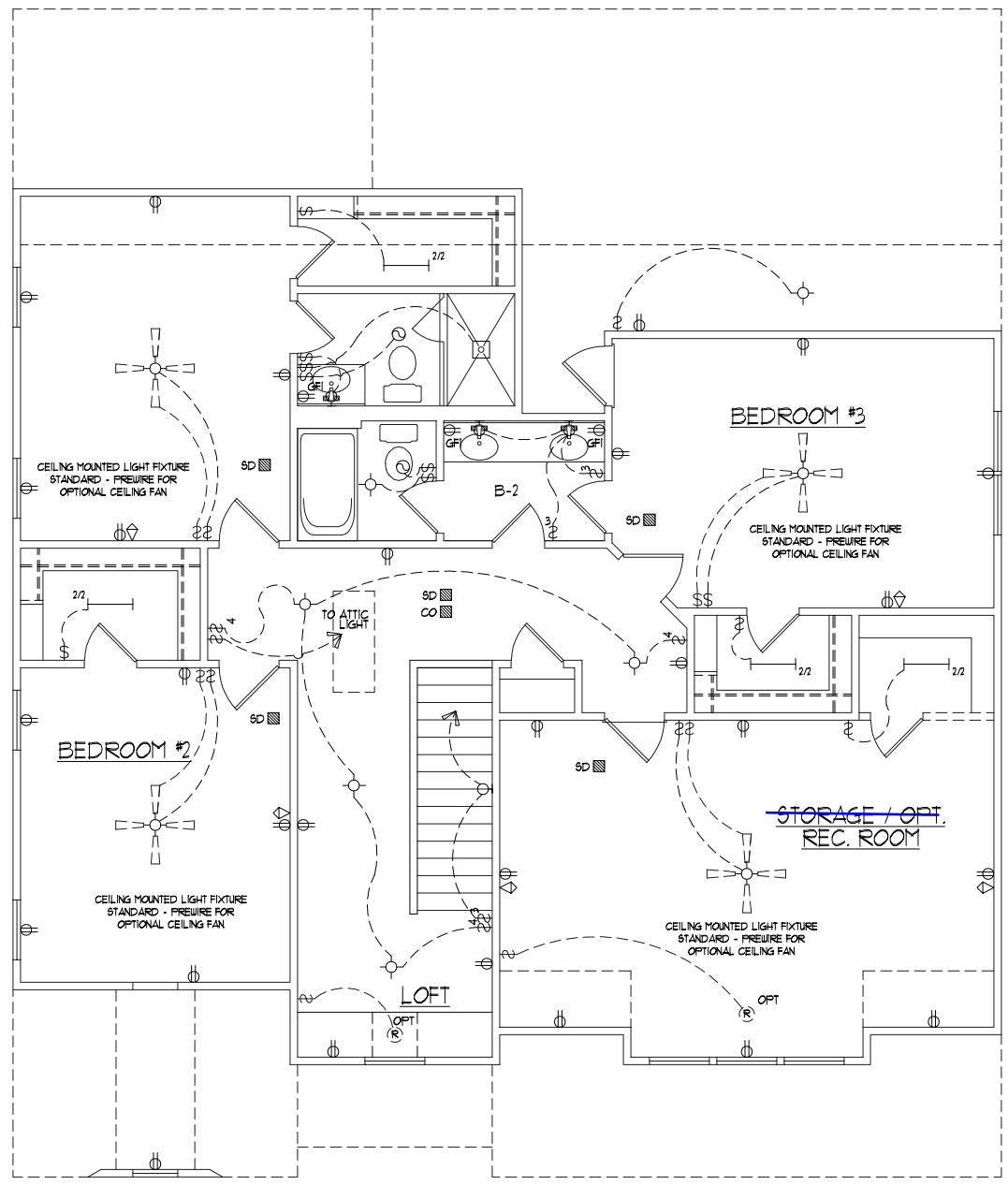
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PAXTON III
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B-2379-44GR 2-2-21
 PLAN I.D. DATE

E-2
 SHEET

Include Bedroom #4
 →



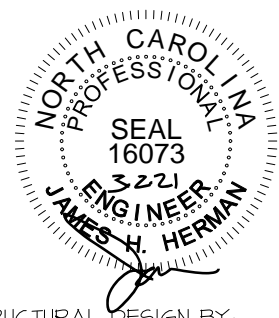
ELEVATION "A"

← Include Rec Room with Closet

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

SECOND FLOOR
 ELECTRICAL LAYOUT
 W/ BEDROOM #4 / BATH OPTION



STRUCTURAL DESIGN BY:
 SOUTHERN ENGINEERS, P.A.
 3716 BENSON DRIVE RALEIGH, NC 27609
 LICENSE: C-1287, PHONE: 919-878-1617
 PROJECT #: 21-2316-GR

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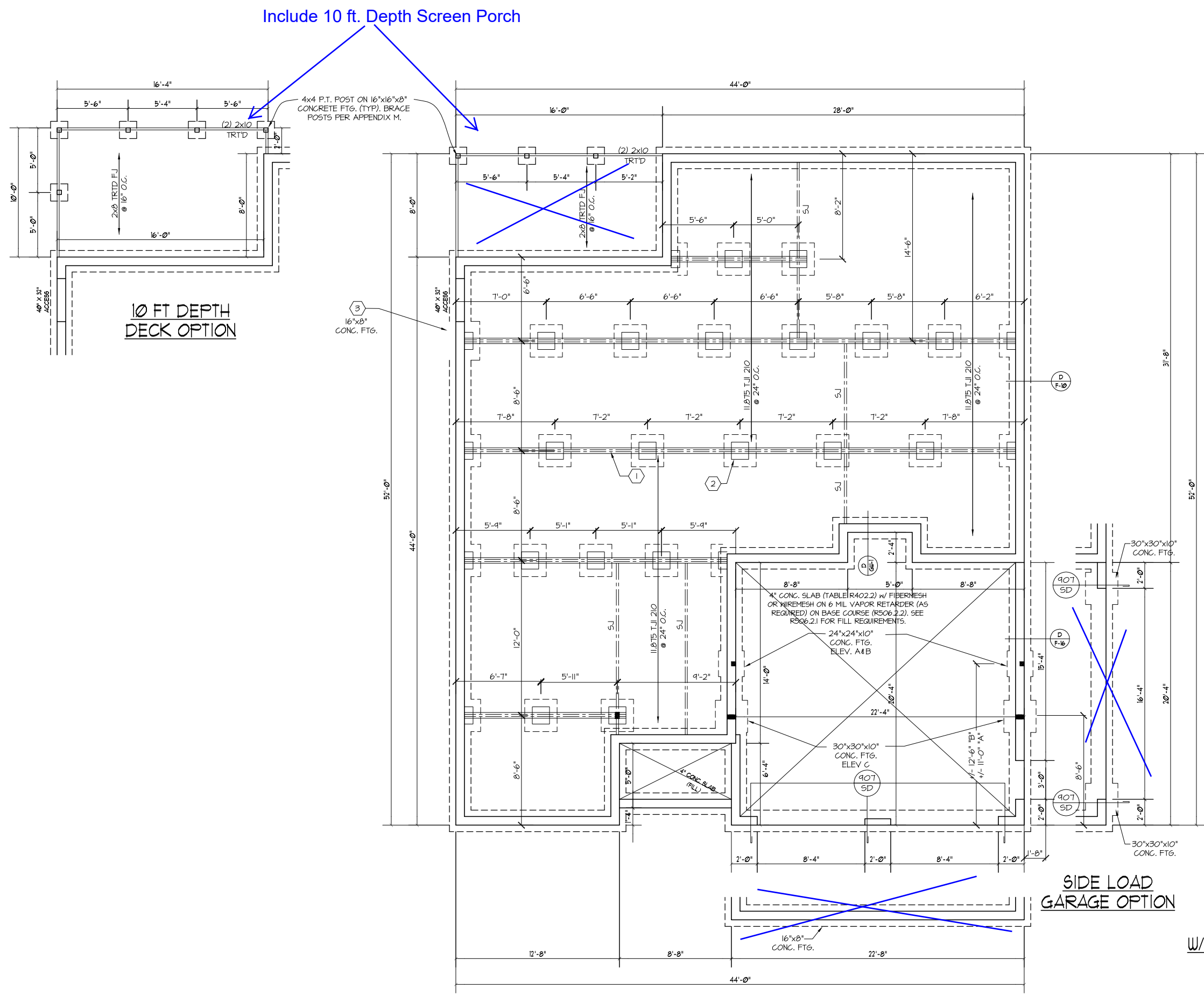
REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS AND STRUCTURAL NOTES.

WALL VENTED CRAWL SPACE	
REQUIRED	
1637	SQ. FT. / 50 = 10.91 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	1637 SQ. FT. / 30 = 56 CFM
(R409.5.3) HOUSE AIR	1637 SQ. FT. / 50 = 34 CFM
(R409.5.4) EXHAUST FAN	1637 SQ. FT. / 50 = 34 CFM
(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 R409.5.1.

CRAWL SPACE FOUNDATION PLAN
 W/ BEDROOM #4 / BATH OPTION
 SCALE: 1/8"=1'-0"

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



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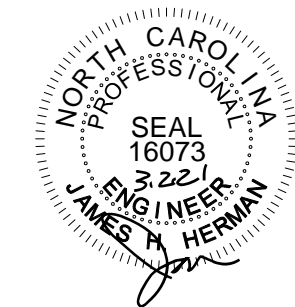
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 COUNTY: MULTI

PAXTON III
 PLAN NAME
B-2379-44GR
 PLAN I.D.
2-2-21
 DATE

S-1
 SHEET



STRUCTURAL DESIGN BY:
 SOUTHERN ENGINEERS, P.A.
 3716 BENSON DRIVE RALEIGH, NC 27609
 LICENSE: C-1287, PHONE: 919-878-1617
 PROJECT #: 21-2316-GL

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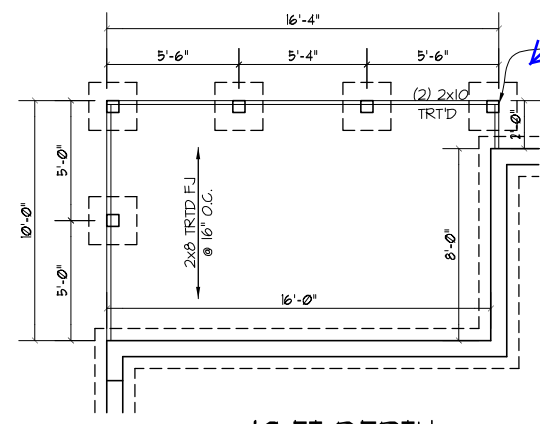
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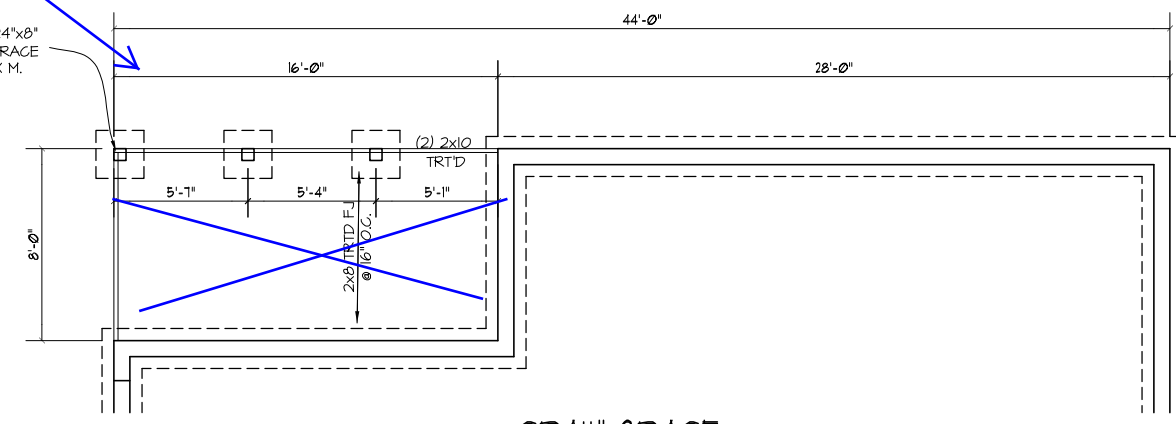
PAXTON III
 PLAN NAME
B-2379-44GR 2-2-21 DATE
 PLAN I.D.

S-1 SCREEN PORCH OPTIONS SHEET

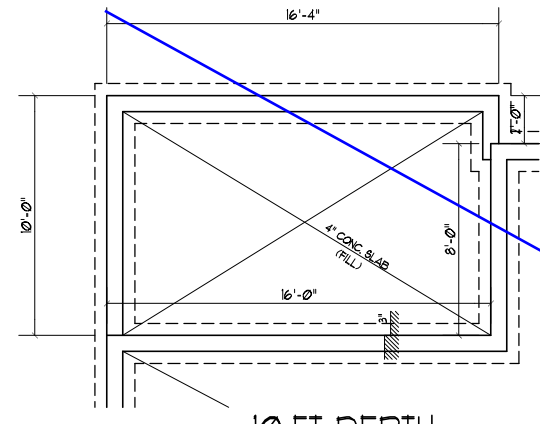
Include 10 ft. Depth Screen Porch



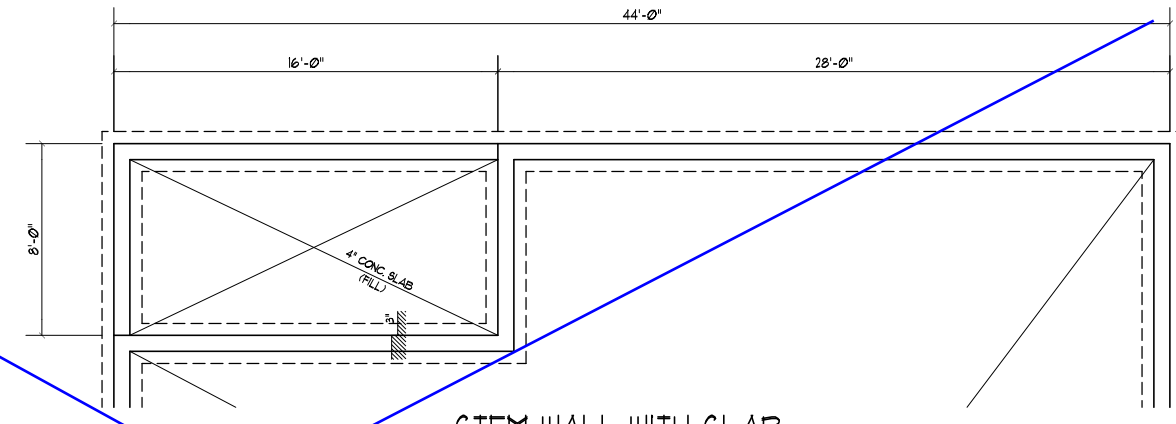
10 FT DEPTH SCREEN PORCH OPTION



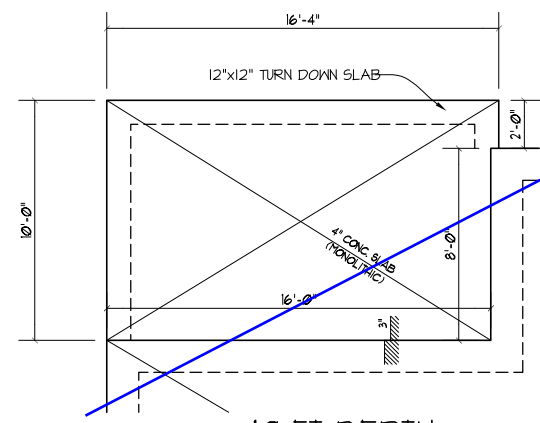
CRAWLSPACE FOUNDATION



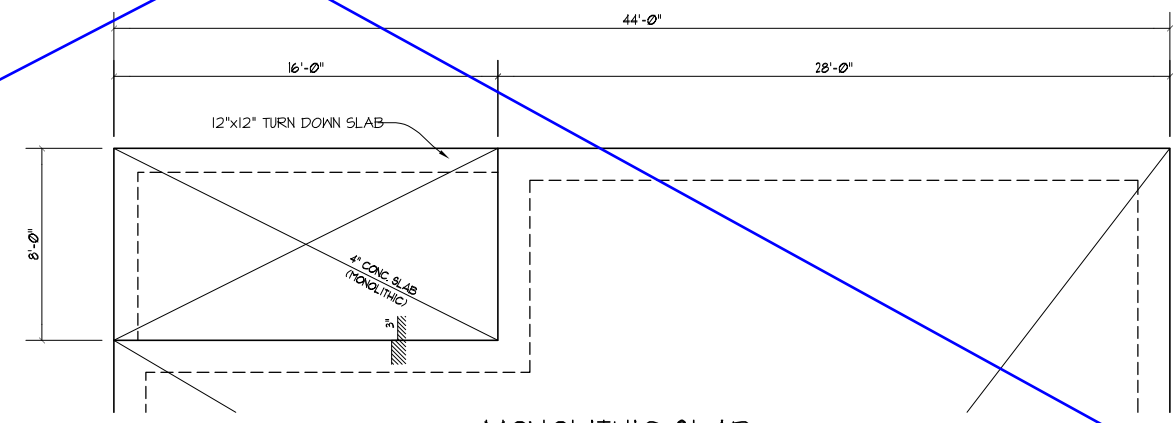
10 FT DEPTH SCREEN PORCH OPTION



STEM WALL WITH SLAB FOUNDATION



10 FT DEPTH SCREEN PORCH OPTION



MONOLITHIC SLAB FOUNDATION

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

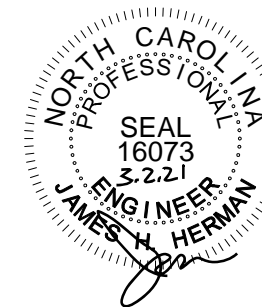
WOOD "I" JOISTS
(SHALL BE ONE OF THE FOLLOWING):

- TJI 210 BY I-LEVEL
- LPI 20 PLUS BY LP
- BCI 5000s I.B 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.

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

Include 10 ft. Depth Screen Porch

Include Tray Ceiling

WHOLE HOUSE BRACING SUMMARY
TOTAL REQUIRED BRACING: 52
TOTAL PROVIDED BRACING: 45
(IN FEET)

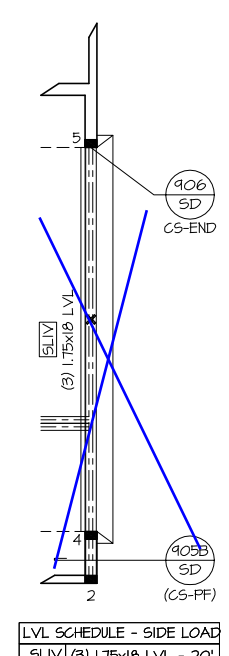
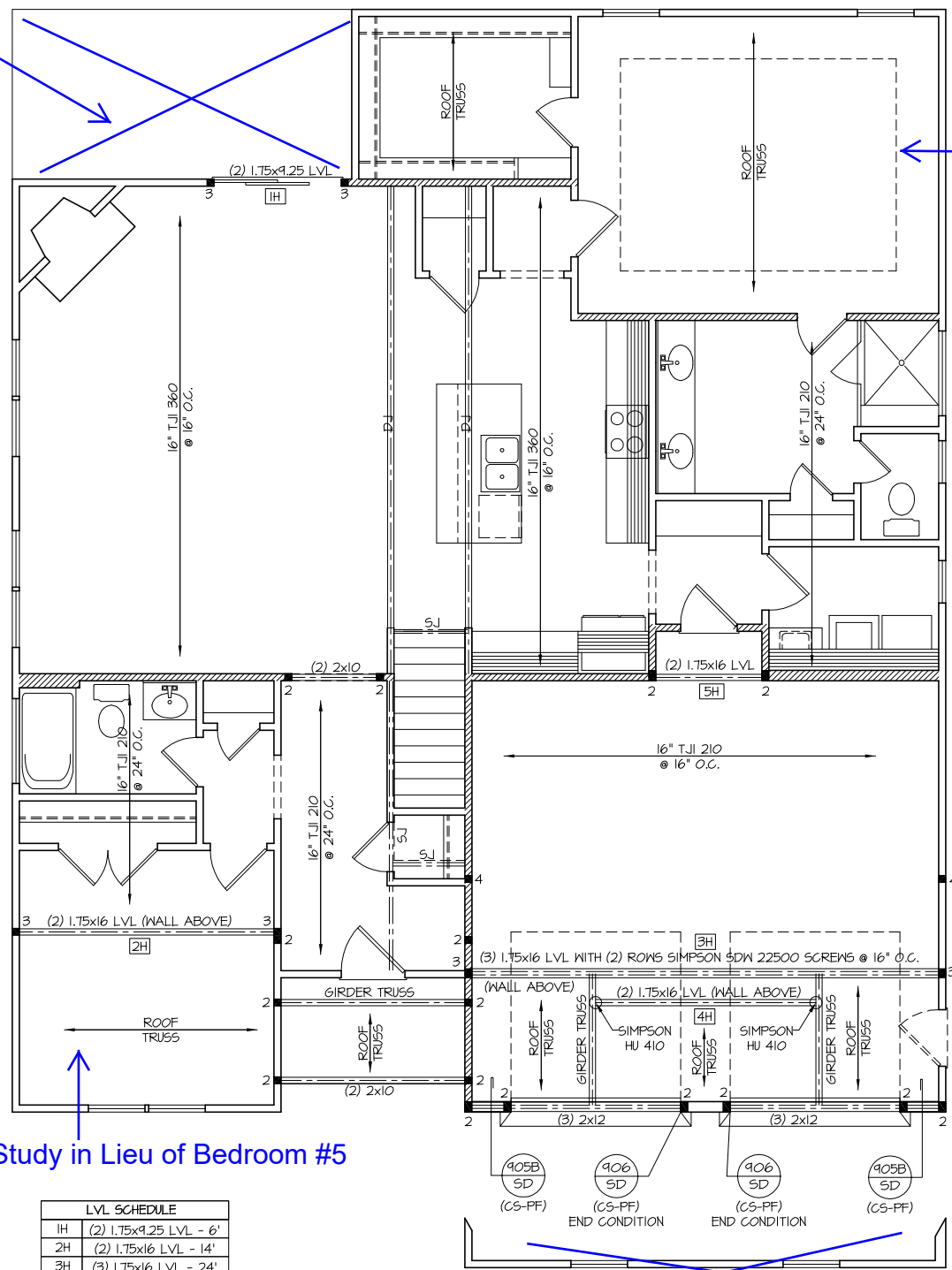
FRAMING NOTES

NC (2018 NRCG); 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"X12" 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 7/8" WSP SHEATHING WITH 8d NAILS AT A 6"X12" 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.

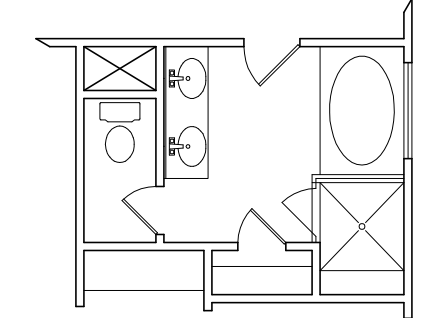
Study in Lieu of Bedroom #5

LVL SCHEDULE	
1H	(2) 1.75x9.25 LVL - 6'
2H	(2) 1.75x16 LVL - 14'
3H	(3) 1.75x16 LVL - 24'
4H	(2) 1.75x16 LVL - 12'
5H	(2) 1.75x16 LVL - 6'



TRUSS SYSTEM REQUIREMENTS
NC (2018 NRCG); 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 & 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 PER NCD01 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

ELEVATION "A"
FIRST FLOOR CEILING /
STRUCTURAL PLAN
W/ BEDROOM #4 / BATH OPTION

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

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

DYNAMIC DESIGN GROUP, INC

David D Grorud
(919) 601-1406
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CAPITOL
PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

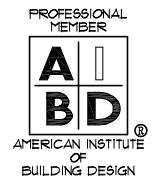
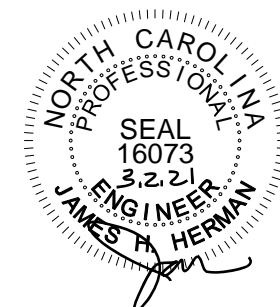
PAXTON III

PLAN NAME: **B-2379-44GR** DATE: **2-2-21**

PLAN I.D.:

S-2A

SHEET



STRUCTURAL DESIGN BY:
 SOUTHERN ENGINEERS, P.A.
 3716 BENSON DRIVE RALEIGH, NC 27609
 LICENSE: C-1287, PHONE: 919-878-1617
 PROJECT #: 21-2316-GR

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- 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.

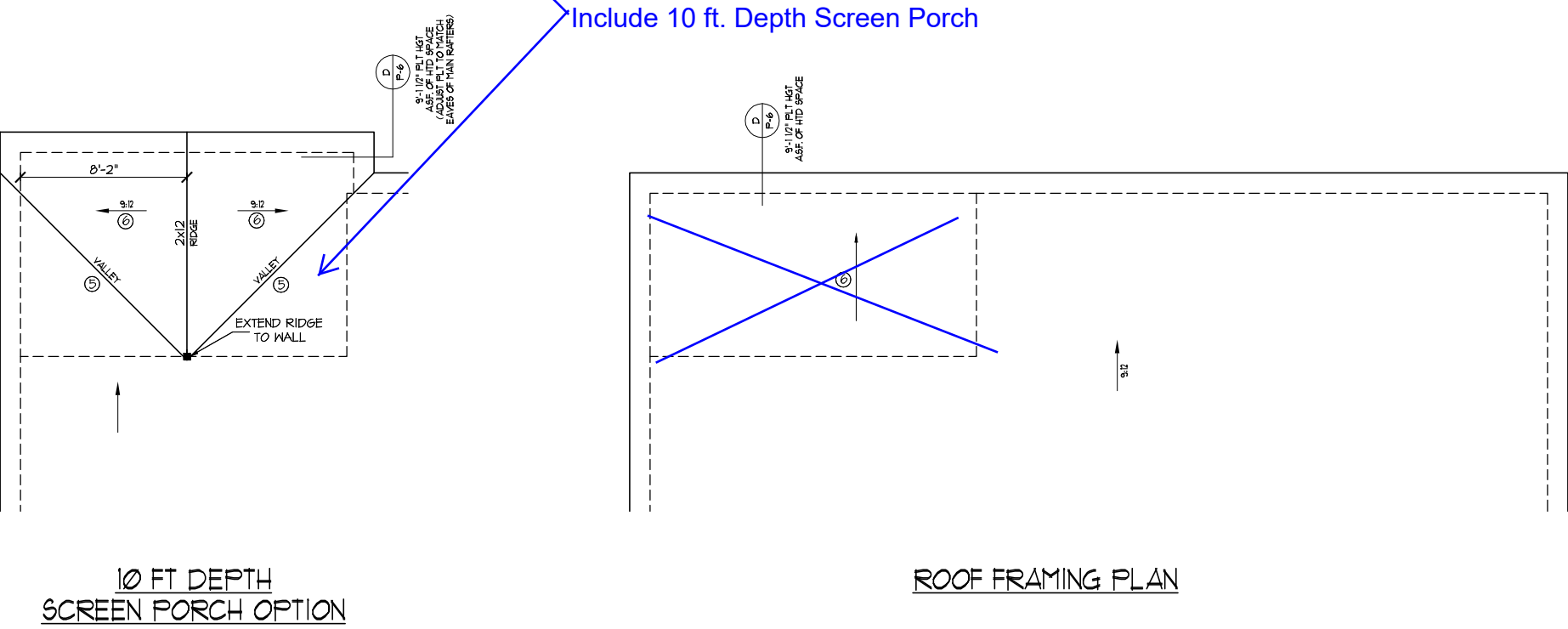
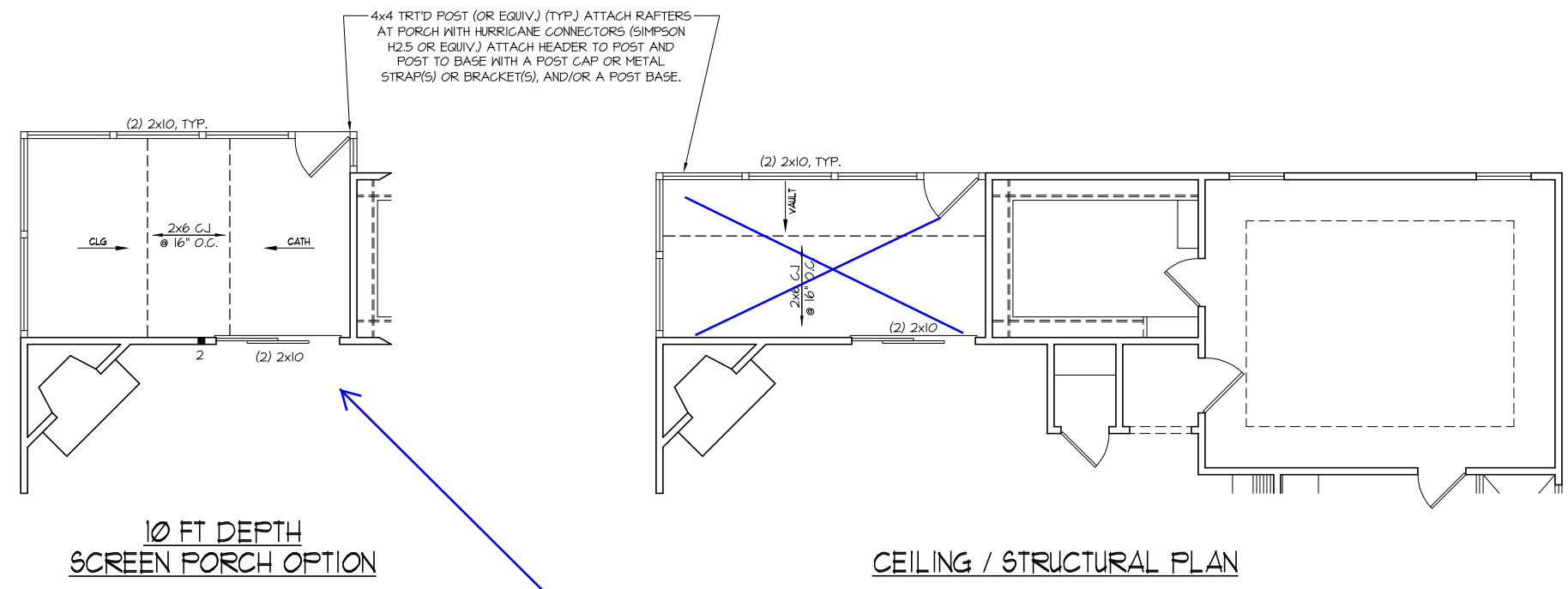
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CAPITOL
 PROJECT FOR: CITY HOMES
 LOCATION: MULTI
 LOT: MULTI
 SUBDIVISION: MULTI
 COUNTY: MULTI

PAXTON III
 PLAN NAME
B-2379-44GR
 PLAN I.D.
2-2-21
 DATE

S-2 SCREEN PORCH OPTIONS
 SHEET



- ROOF FRAMING NOTES:**
 NC (2018 NRC): 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.

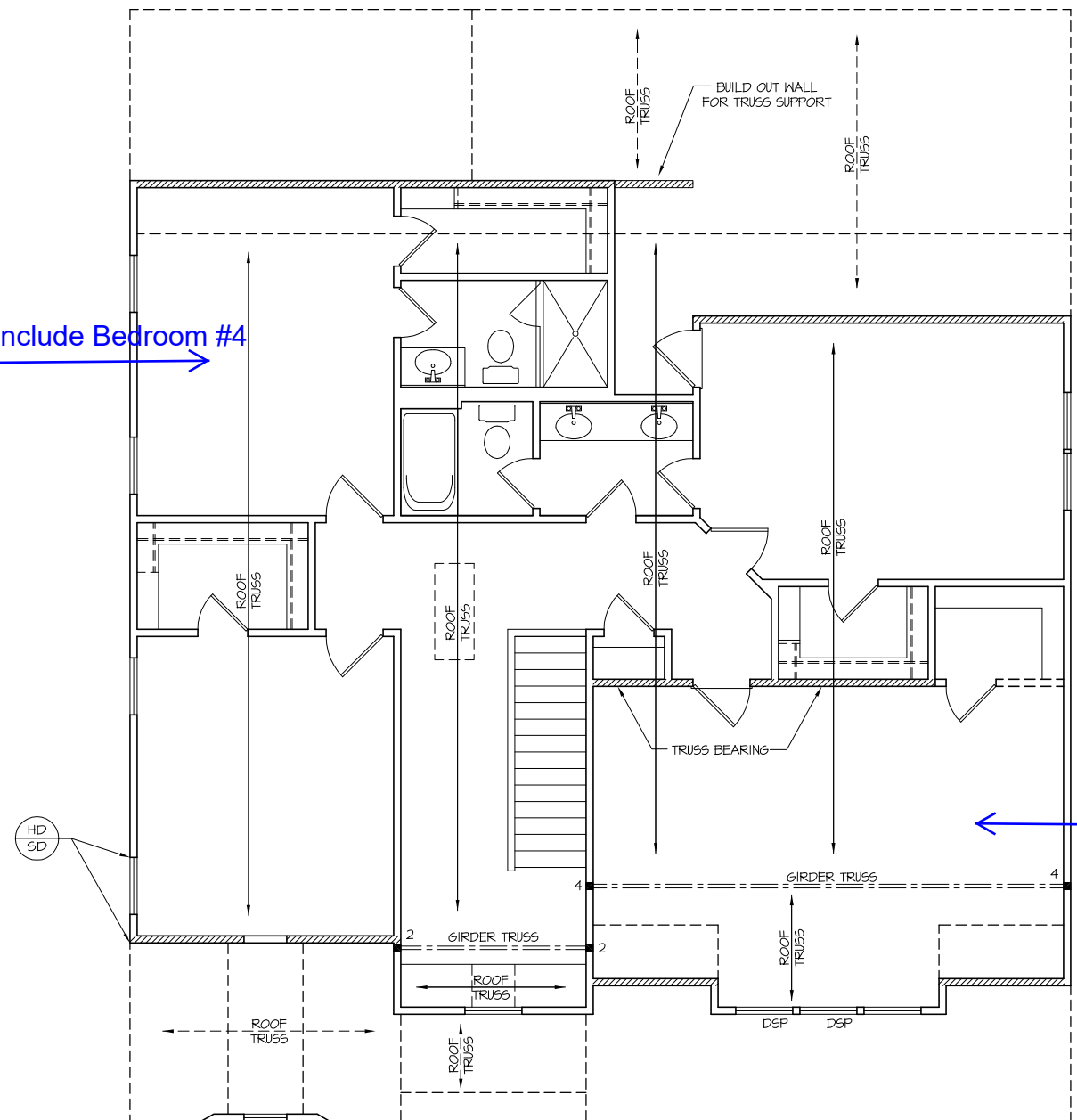
SCREEN PORCH
 OPTIONS
 SCALE: 1/8" = 1'-0"

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 C522 STRAP DOWN ACROSS THE BAND AND DOWN TO A STUD BELOW OR HEADER BELOW. EXTEND STRAP 7" 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 1/6" 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.

Include Bedroom #4



Include Rec Room with Closet



STRUCTURAL DESIGN BY:
SOUTHERN ENGINEERS, P.A.
3716 BENSON DRIVE RALEIGH, NC 27609
LICENSE: C-1207, PHONE: 919-870-1617
PROJECT #: 21-2316-GR

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

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 & 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 PER NCDOL 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

ELEVATION "A"
SECOND FLOOR CEILING /
STRUCTURAL PLAN
W/ BEDROOM #4 / BATH OPTION
SCALE ----- 1/8"=1'-0"

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

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CAPITOL

PROJECT FOR: CITY HOMES

LOCATION: MULTI

LOT: MULTI

SUBDIVISION: MULTI

COUNTY: MULTI

PAXTON III

PLAN NAME

B-2379-44GR

PLAN I.D.

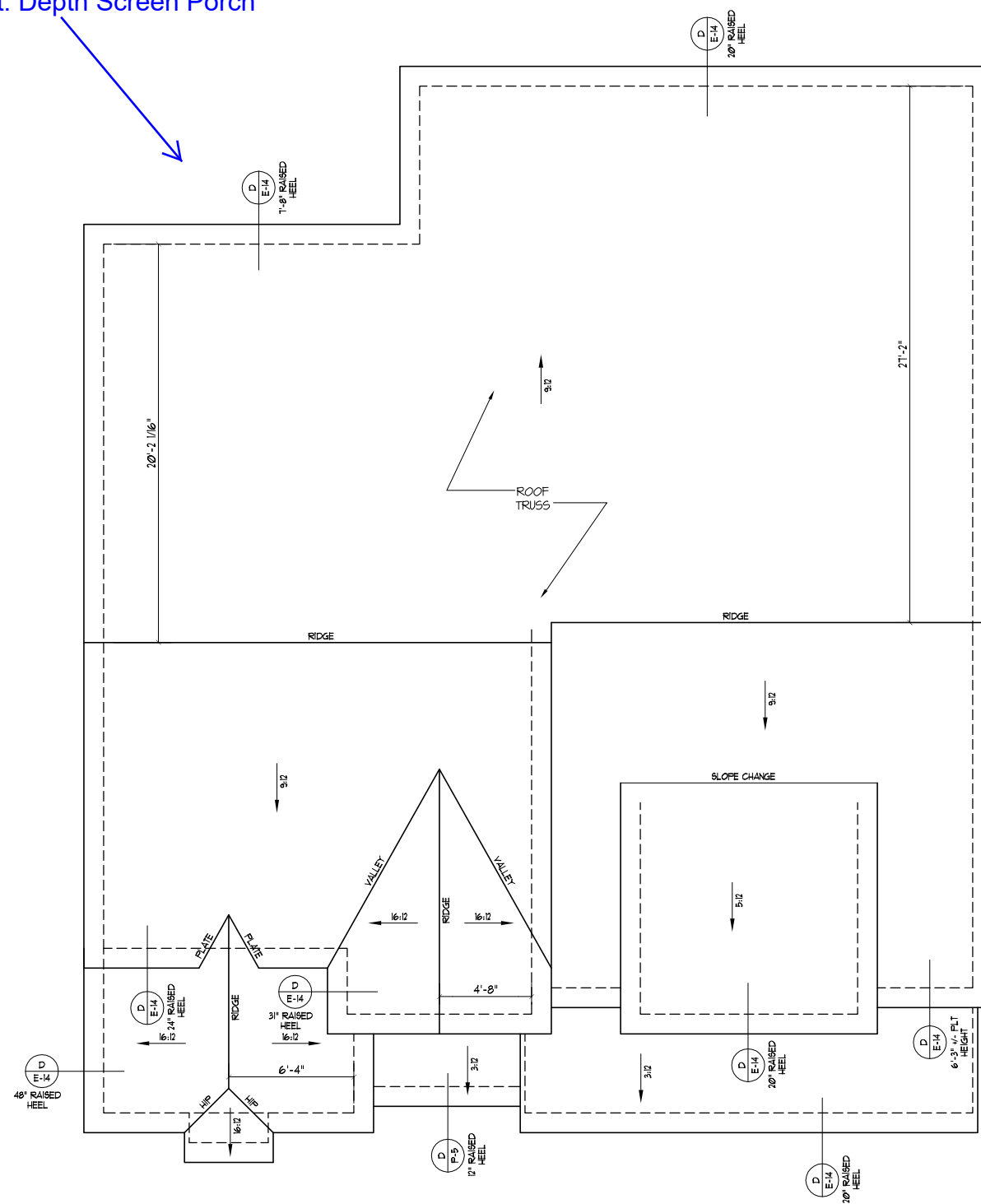
2-2-21

DATE

S-3A

SHEET

Include 10 ft. Depth Screen Porch



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LICENSE: C-1287, PHONE: 919-878-1617
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- 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.

ATTIC VENTILATION	
REQUIRED	* 2271 SQ FT OF ATTIC / 300 = 7.59 SQ FT. OF INLET & OUTLET
PROVIDED (INLET)	SOFFIT 07 SQ. FT. PER X 64 LINEAR FT. = 448 SQ. FT. 48% (TOTAL OF LINEAR FT. OF VENT. OF VENT. (TOTAL OF INLET))
PROVIDED (OUTLET)	RIDGE 11 SQ. FT. PER X 44 LINEAR FT. = 484 SQ. FT. 52% (TOTAL OF LINEAR FT. OF VENT. OF VENT. (TOTAL OF OUTLET))
	9.32 TOTAL SQ. FT. OF VENT.

* INCLUDES OPT SCREEN PORCH

ELEVATION "A"
ROOF FRAMING PLAN
W/ BEDROOM #4 / BATH OPTION
SCALE ----- 1/8"=1'-0"

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

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

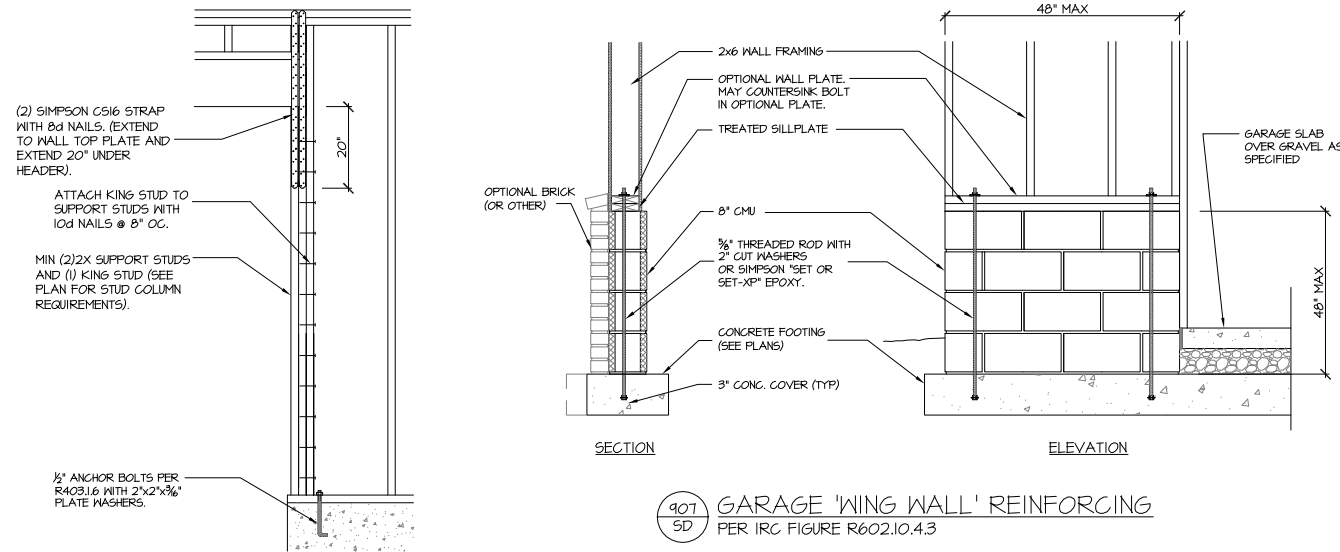
PAXTON III
PLAN NAME
B-2379-44GR 2-2-21 DATE
PLAN I.D.

S-4A
SHEET

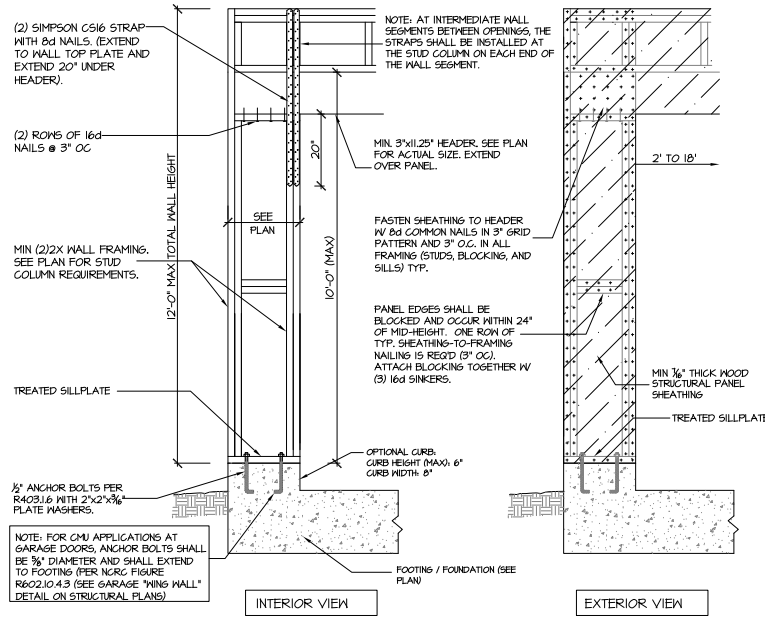
STRUCTURAL NOTES

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

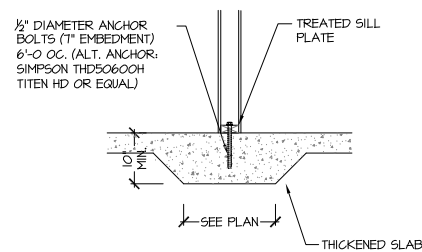
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, GANTRYBEAMS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM, FOOTING, AND PILING SYSTEM. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL 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 (NO). AIR ENTRAINMENT PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP. CONTROL JOINTS IN SLABS SHALL BE SPACED ON A GRID OF +30 TIMES THE DEPTH (D). CONTROL JOINTS SHALL BE SAWCUT TO A DEPTH OF 1/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 DRAINSURFACE WATER AWAY FROM FOUNDATION WALLS.
- ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (NO). ALL TREATED LUMBER SHALL BE SYP # 2. PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fc(perp) = 425 PSI - MIN).
 - L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.4x10¹⁰ PSI.
 - P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2400 PSI, Fv=240 PSI, E=2.0x10¹⁰ PSI.
 - L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10¹⁰ 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 RT03.7.3 LINTELS.



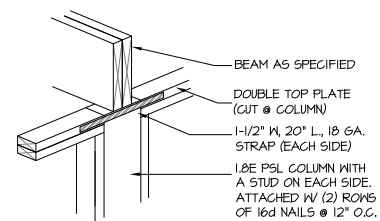
906 CS-PF: END CONDITION DETAIL
 (FOR USE WITH SINGLE CS-PF CONDITION)
 DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



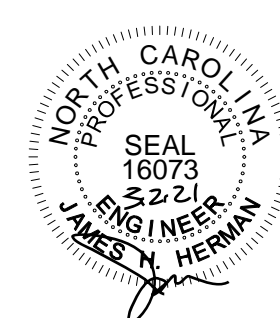
905B CS-PF: CONTINUOUS PORTAL FRAME CONSTRUCTION
 DETAIL AND APPLICATION BASED ON NCRC FIGURE R602.10.1 - PORTAL FRAME CONSTRUCTION



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



205B DIRECT BEAM BEARING
 SD NTS



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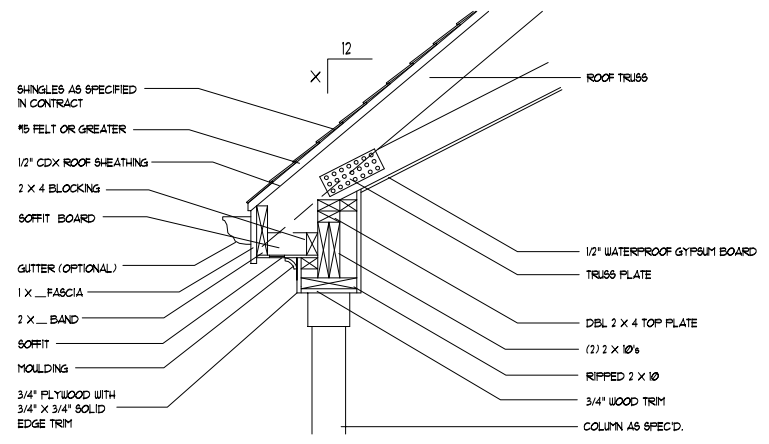
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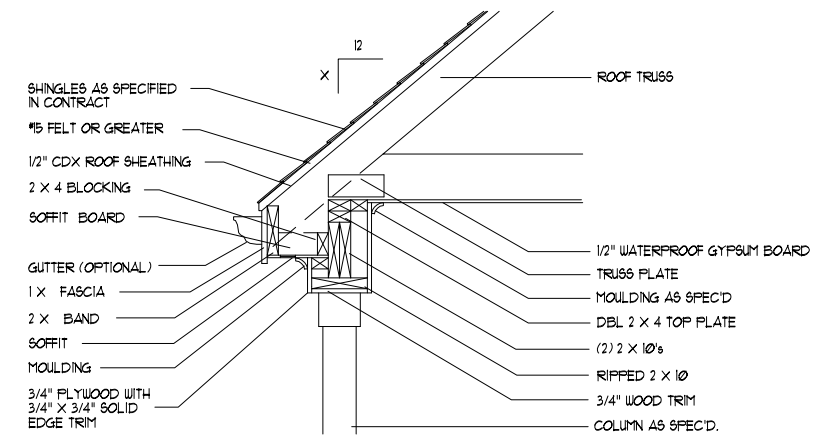
PROJECT FOR: CAPITOL CITY HOMES
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PAXTON III
 PLAN NAME
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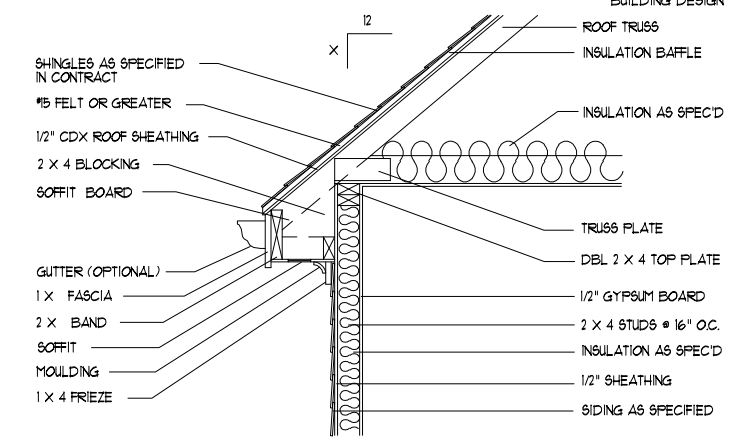
SD SHEET



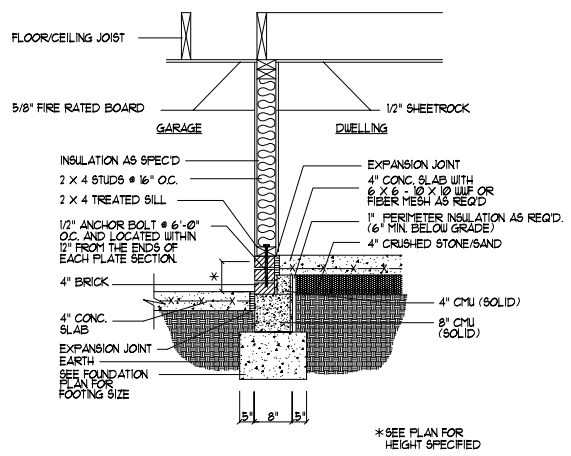
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P-6 (NTS)



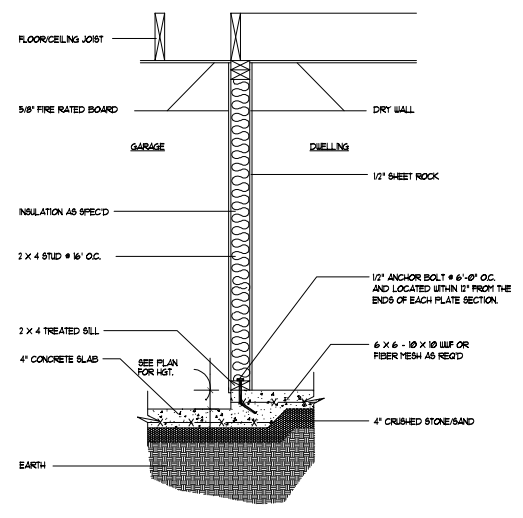
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P-5 (NTS)



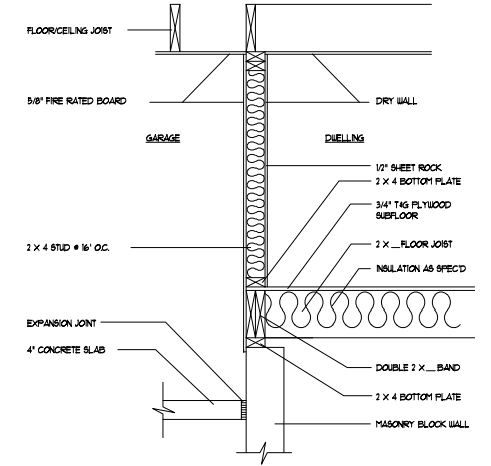
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E-14 (NTS)



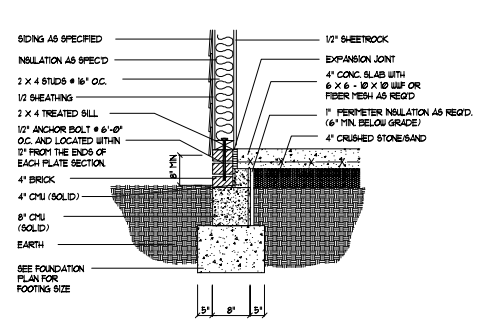
D
GU-1A (NTS)



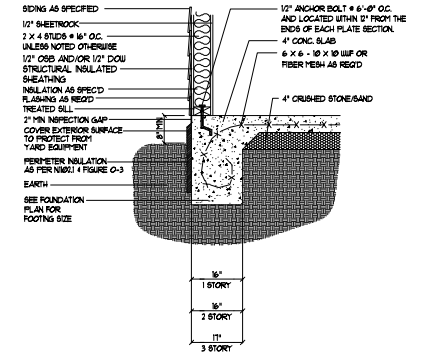
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GU-1B (NTS)



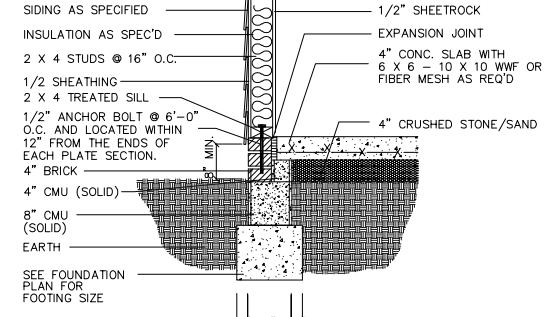
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GU-1C (NTS)



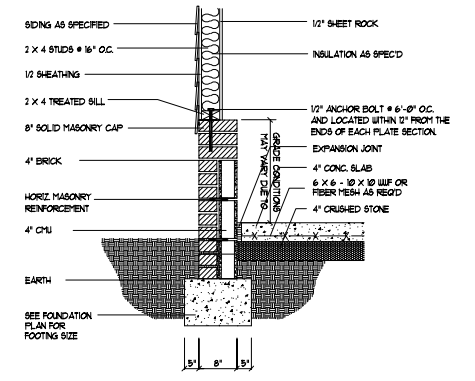
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F-16A (NTS)



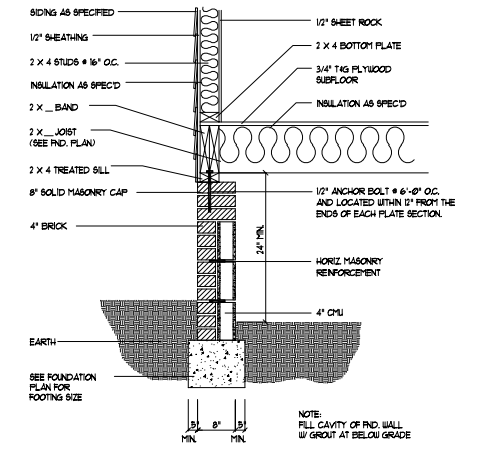
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F-16B (NTS)



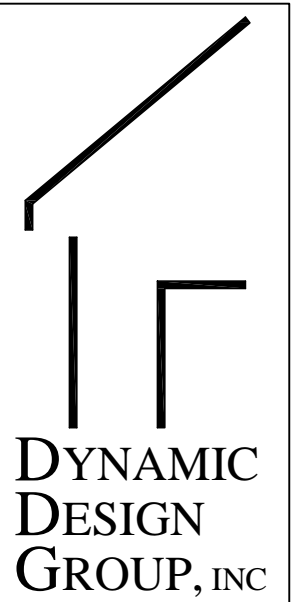
D
F-16A (NTS)



D
F-16 (NTS)



D
F-16 (NTS)



David D Grourd
 (919) 601-1406
 DynamicDesignGroup@gmail.com

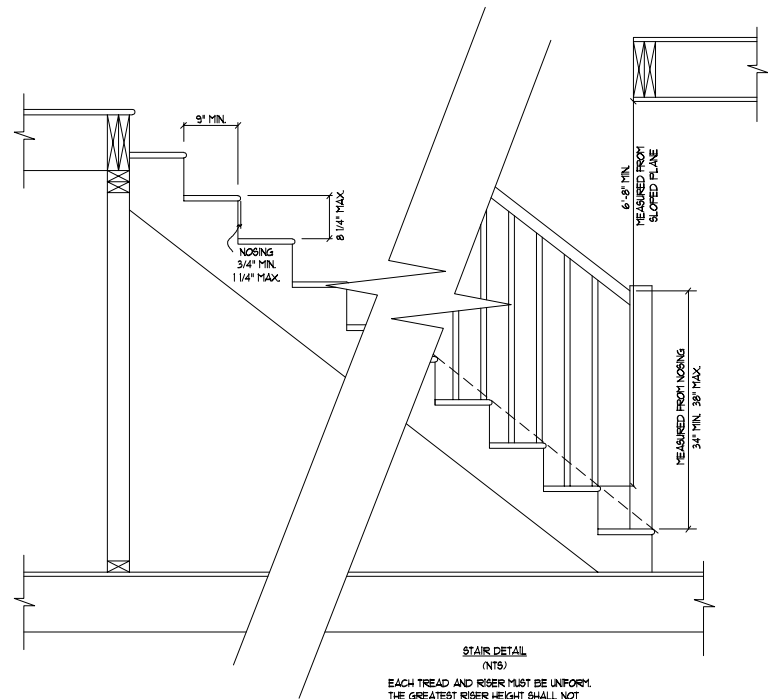
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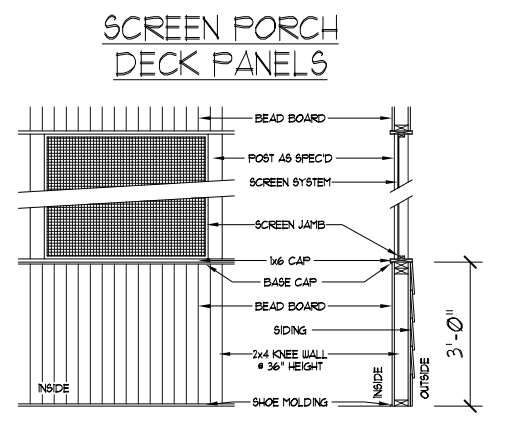
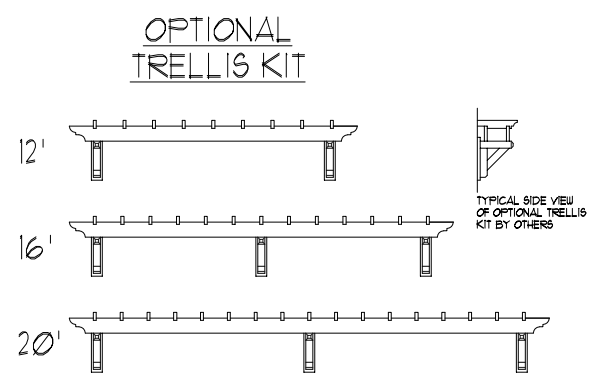
CAPITOL
 PROJECT FOR: CITY HOMES
 LOCATION: MULTI
 LOT: MULTI
 SUBDIVISION: MULTI
 COUNTY: MULTI

PAXTON III
 PLAN NAME
B-2379-44GR
 2-2-21
 DATE
 PLAN I.D.

D-1A
 SHEET



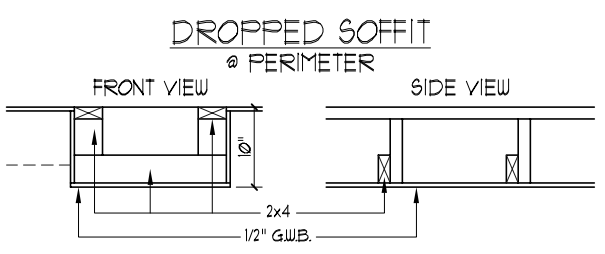
STAIRS DETAIL (NTS)
 EACH TREAD AND RISER MUST BE UNIFORM. THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8\"/>



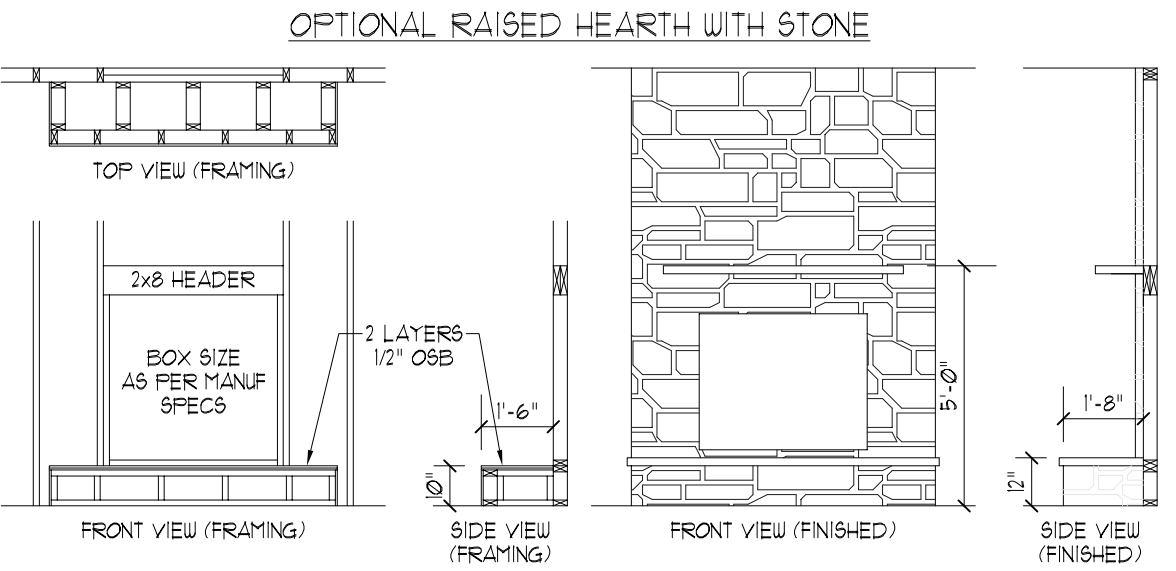
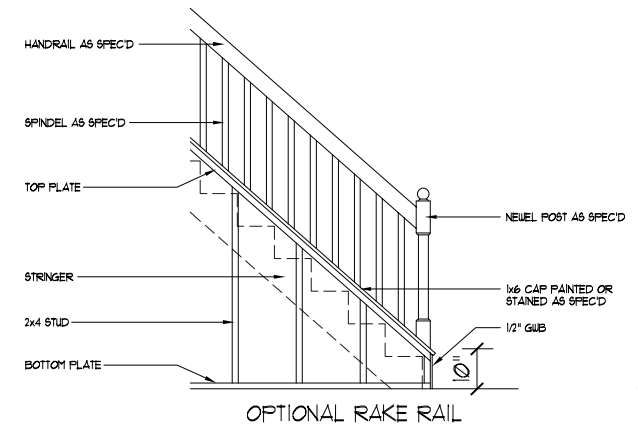
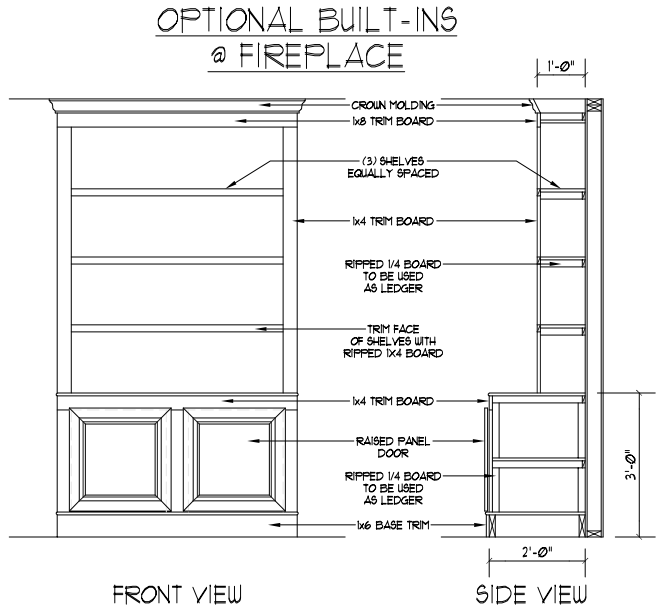
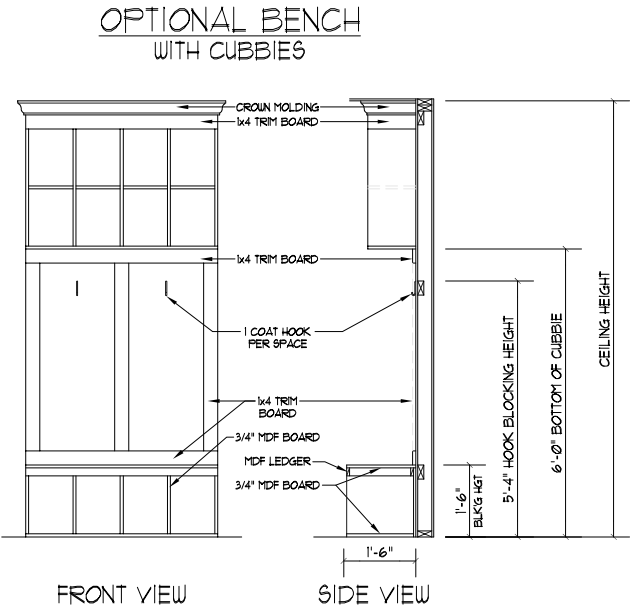
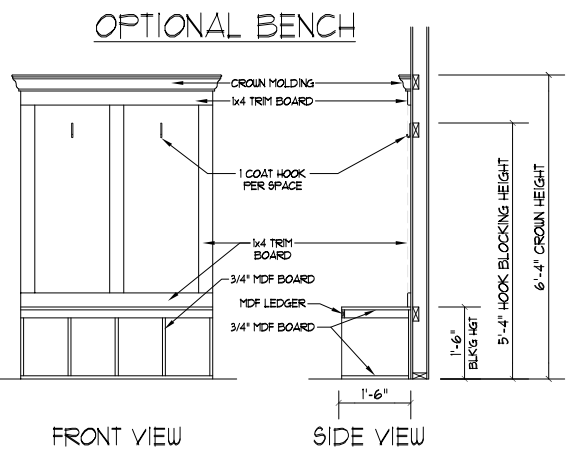
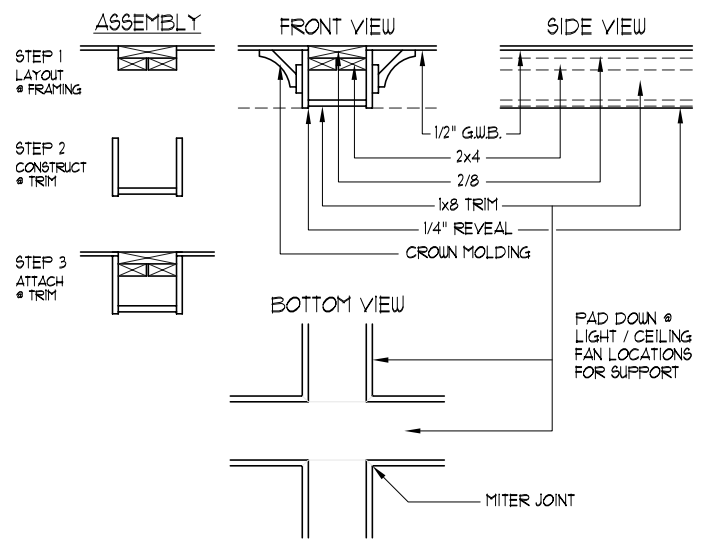
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CAPITOL
 PROJECT FOR: CITY HOMES
 LOCATION: MULTI
 LOT: MULTI
 SUBDIVISION: MULTI
 COUNTY: MULTI



FAUX BEAM



PAXTON III
 PLAN NAME
B-2379-44GR
 PLAN I.D.
D-1B
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DATE: 2-2-21
 DATE