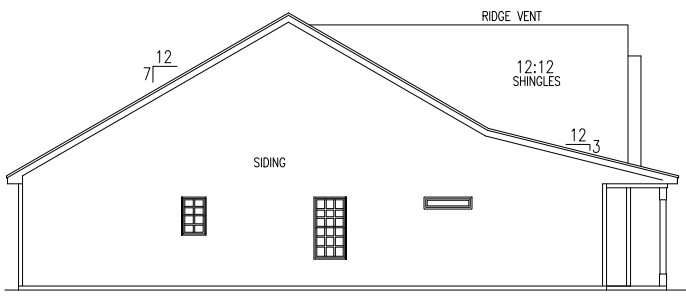


ATTIC SPACE VENTILATION	
REQUIRED	
2215 SQ. FT. OF CLG. / 150 =	14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

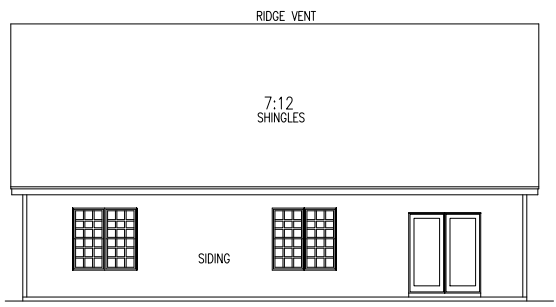
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
9'-10"	+ 23'-2"	÷ 2	= 16'-6" Mean Roof Hgt.



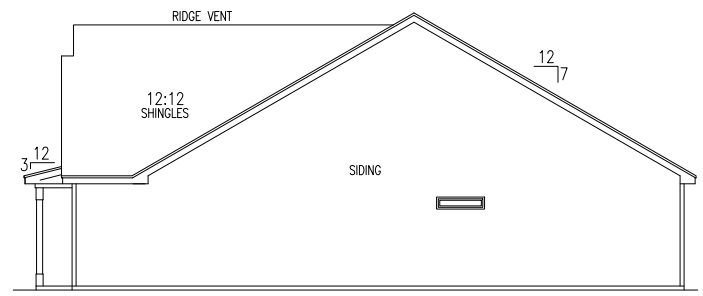
FRONT ELEVATION "A"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

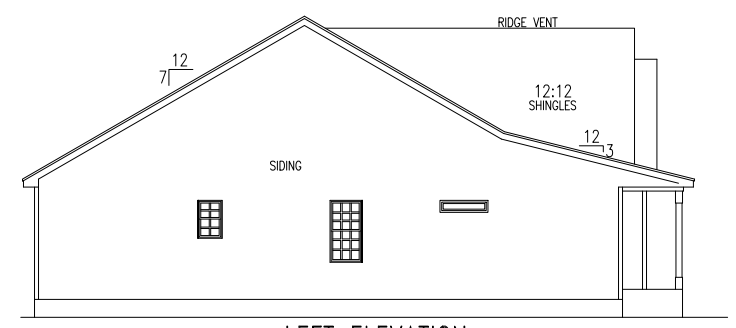
SCALE	
24"x36"	= 1/4"=1'-0"
11"x17"	= 1/8"=1'-0"

ATTIC SPACE VENTILATION	
REQUIRED	
2215 SQ. FT. OF CLG. / 150 =	14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

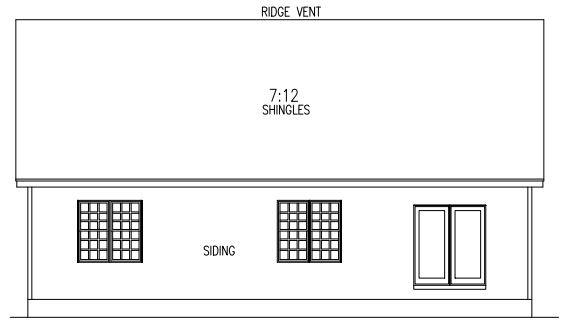
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
11'-10"	+ 24'-9"	÷ 2	= 18'-3" Mean Roof Hgt.



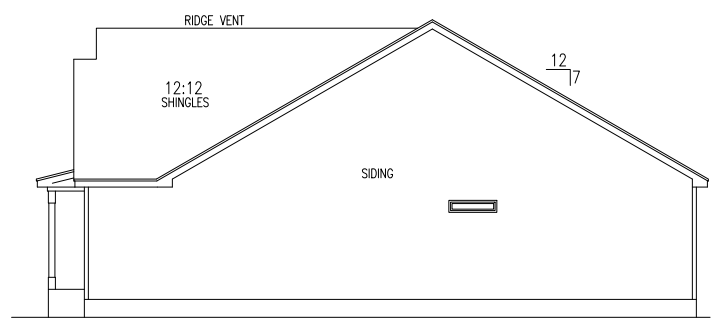
FRONT ELEVATION "A"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

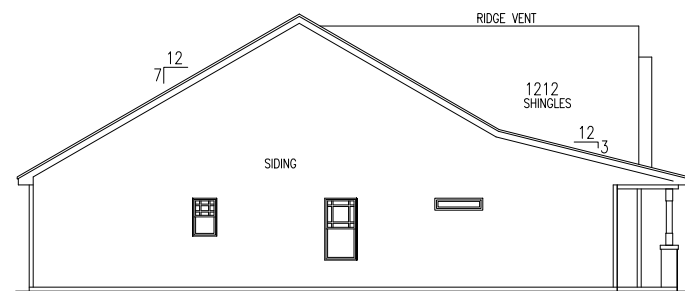
SCALE	
24"X36"	= 1/4"=1'-0"
11"X17"	= 1/8"=1'-0"

ATTIC SPACE VENTILATION	
REQUIRED	
2215	SQ. FT. OF CLG. / 150 = 14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

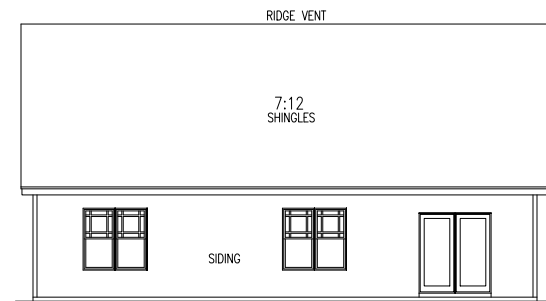
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
9'-10"	+ 23'-2"	÷ 2	= 16'-6" Mean Roof Hgt.



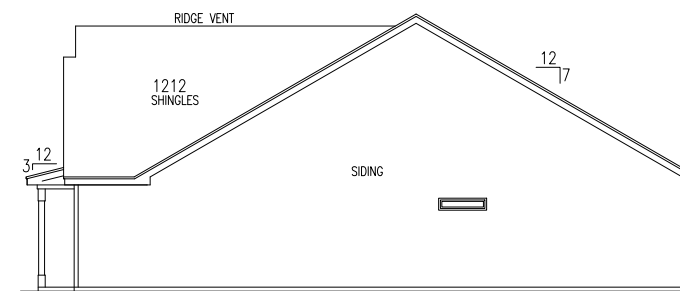
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LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

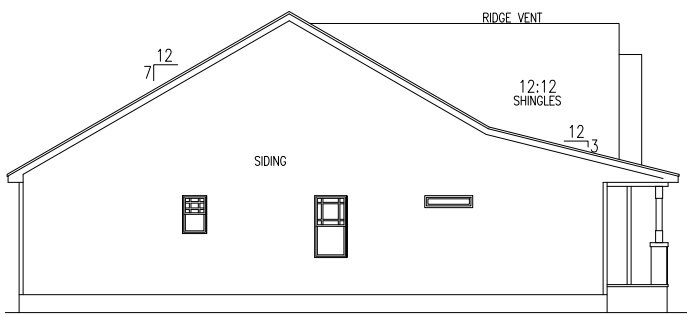
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11"x17"	= 1/8"=1'-0"

ATTIC SPACE VENTILATION	
REQUIRED	
2215	SQ. FT. OF CLG. / 150 = 14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

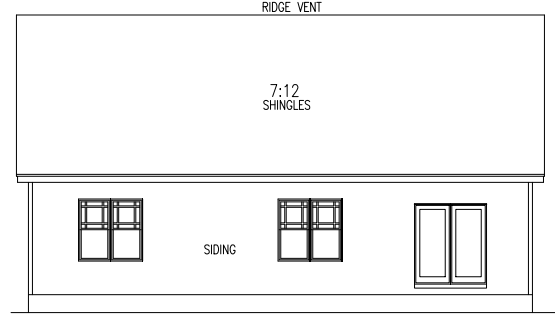
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	+ 2	= Mean Roof Hgt.
11'-10"	+ 24'-9"	+ 2	= 18'-3" Mean Roof Hgt.



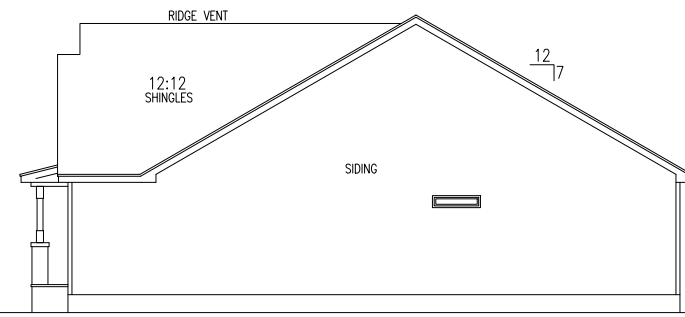
FRONT ELEVATION "B"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

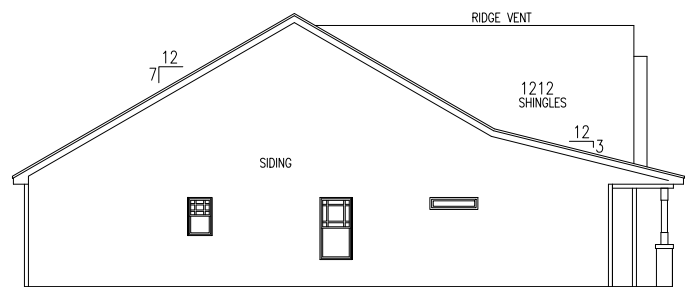
SCALE
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11"x17" = 1/8"=1'-0"

ATTIC SPACE VENTILATION	
REQUIRED	
2215 SQ. FT. OF CLG. / 150 =	14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

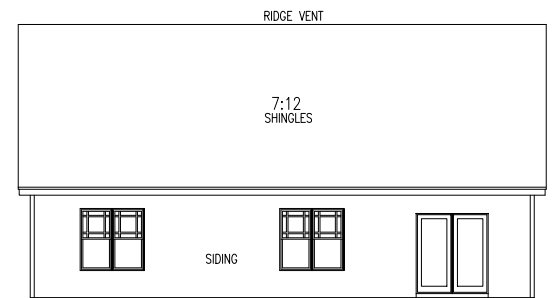
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
9'-10"	+ 23'-2"	÷ 2	= 16'-6" Mean Roof Hgt.



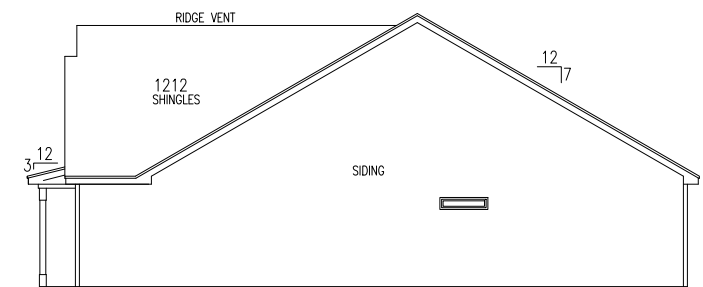
FRONT ELEVATION "C"



LEFT ELEVATION



REAR ELEVATION



RIGHT ELEVATION

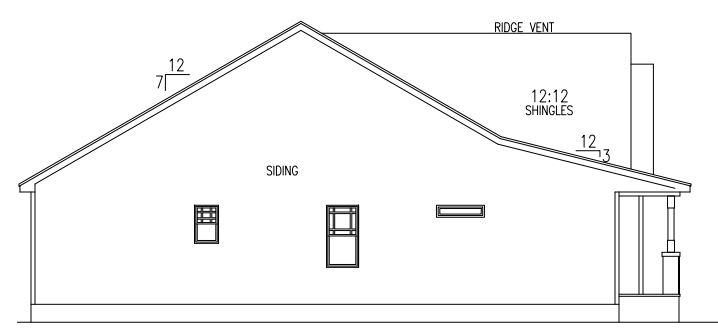
SCALE	
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11"x17"	= 1/8"=1'-0"

ATTIC SPACE VENTILATION	
REQUIRED	
2215 SQ. FT. OF CLG. / 150 =	14.77 SQ. FT. REQUIRED
REFER TO SECTION R806 (ROOF VENTILATION) IN NORTH CAROLINA STATE AND INTERNATIONAL RESIDENTIAL BUILDING CODES.	

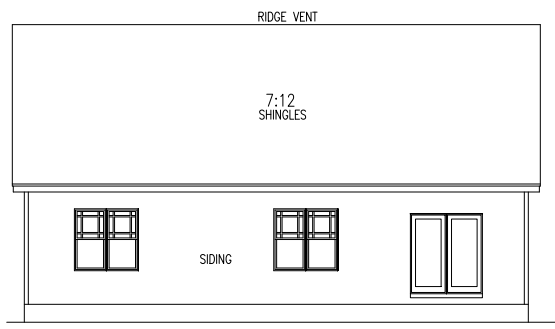
MEAN ROOF HGT.			
Soffit Hgt. From Assumed Grade	+ Highest Ridge Hgt. From Assumed Grade	÷ 2	= Mean Roof Hgt.
11'-10"	+ 24'-9"	÷ 2	= 18'-3" Mean Roof Hgt.



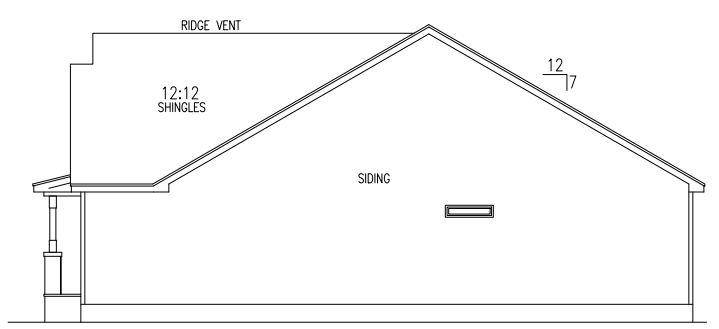
FRONT ELEVATION "C"



LEFT ELEVATION

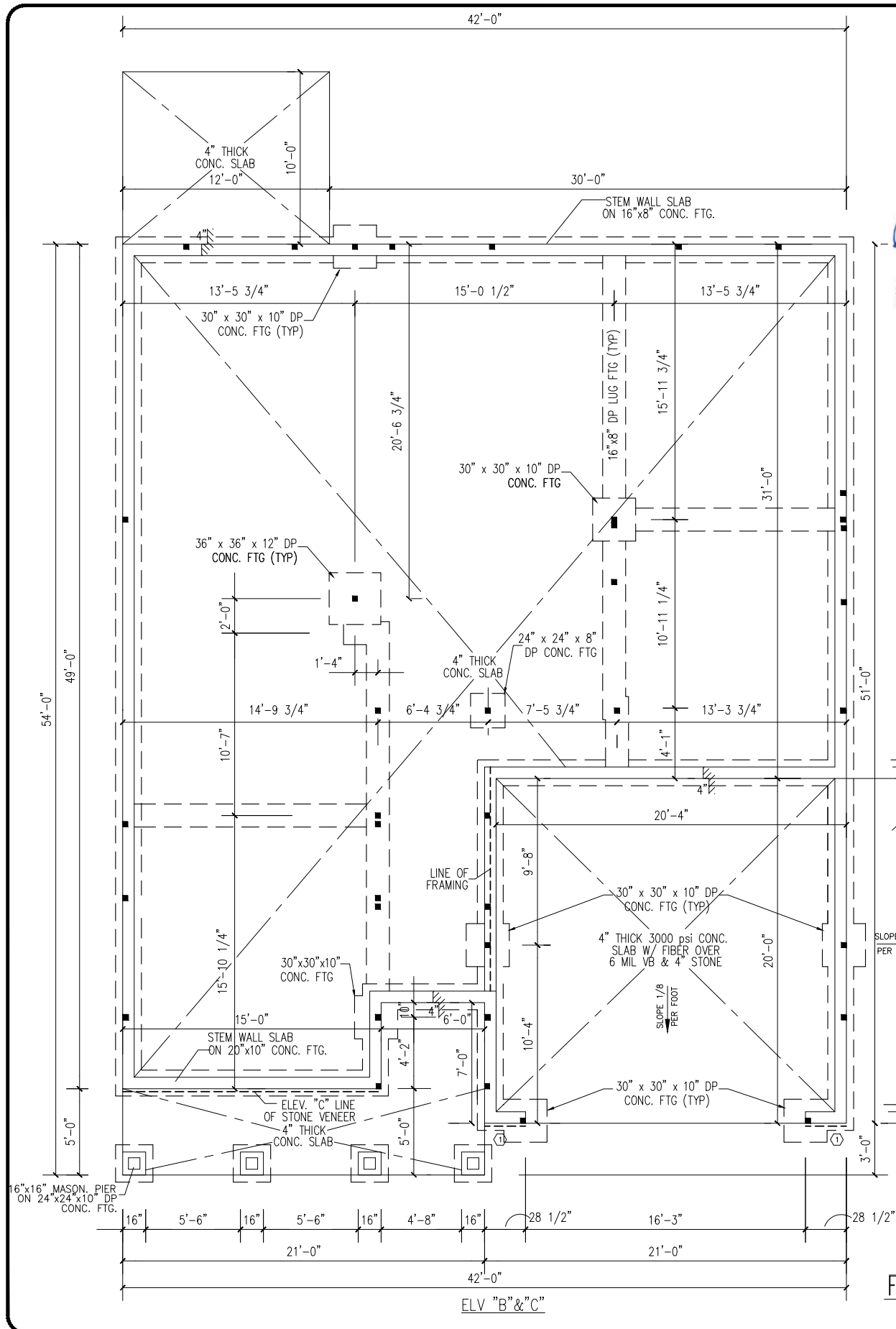


REAR ELEVATION



RIGHT ELEVATION

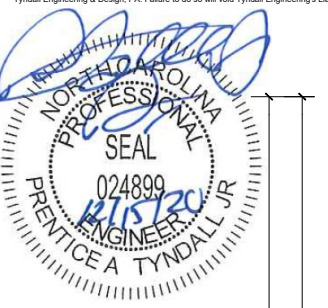
SCALE	
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11"X17"	= 1/8"=1'-0"



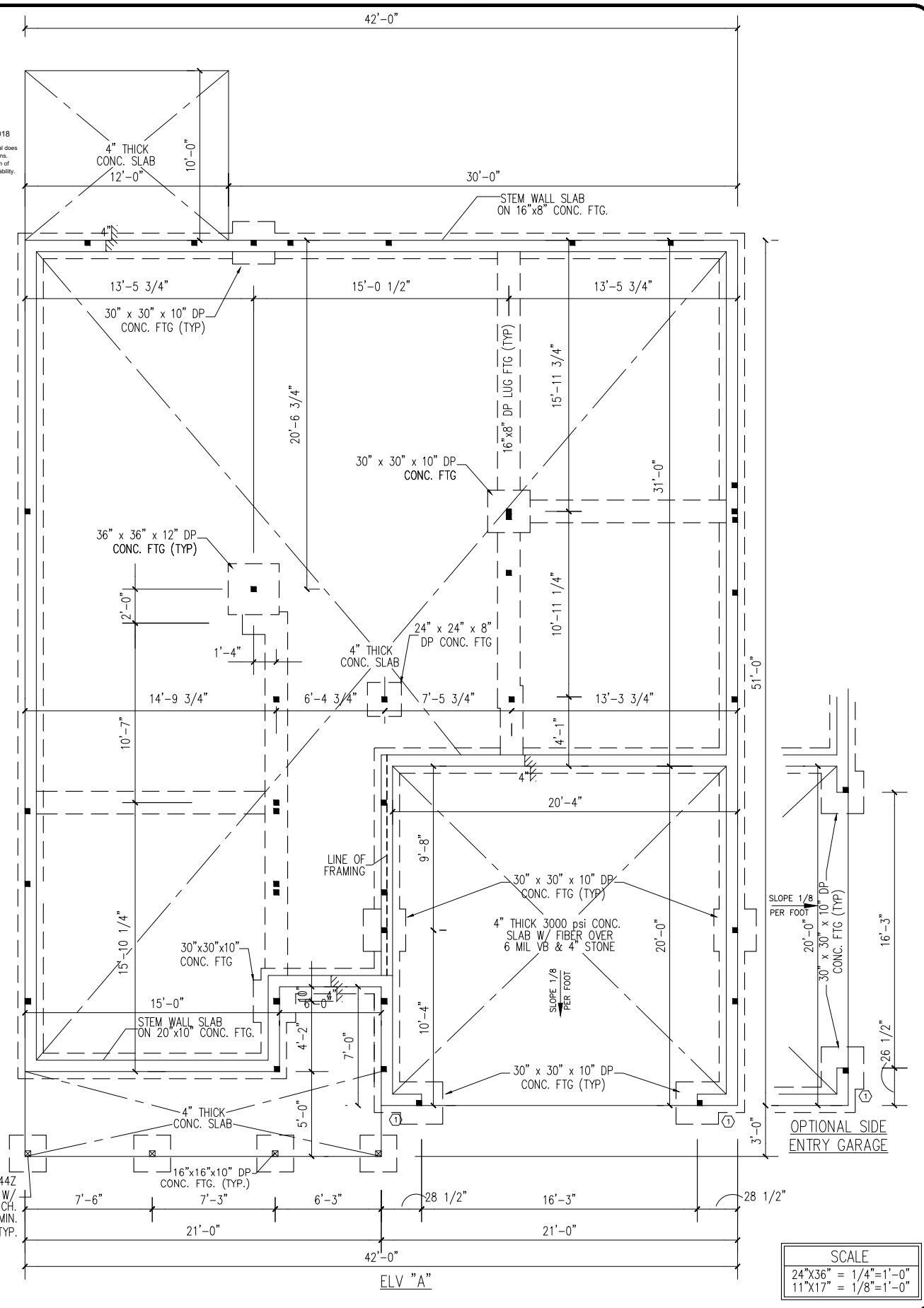
**TYNDALL**  
ENGINEERING & DESIGN, P.A.

1801-010011  
\* Structural analysis based on NC Residential Building Code 2018

The Engineer's seal applies only to structural components on this document. The seal does not include construction means, methods, techniques, procedures, or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering's Liability.

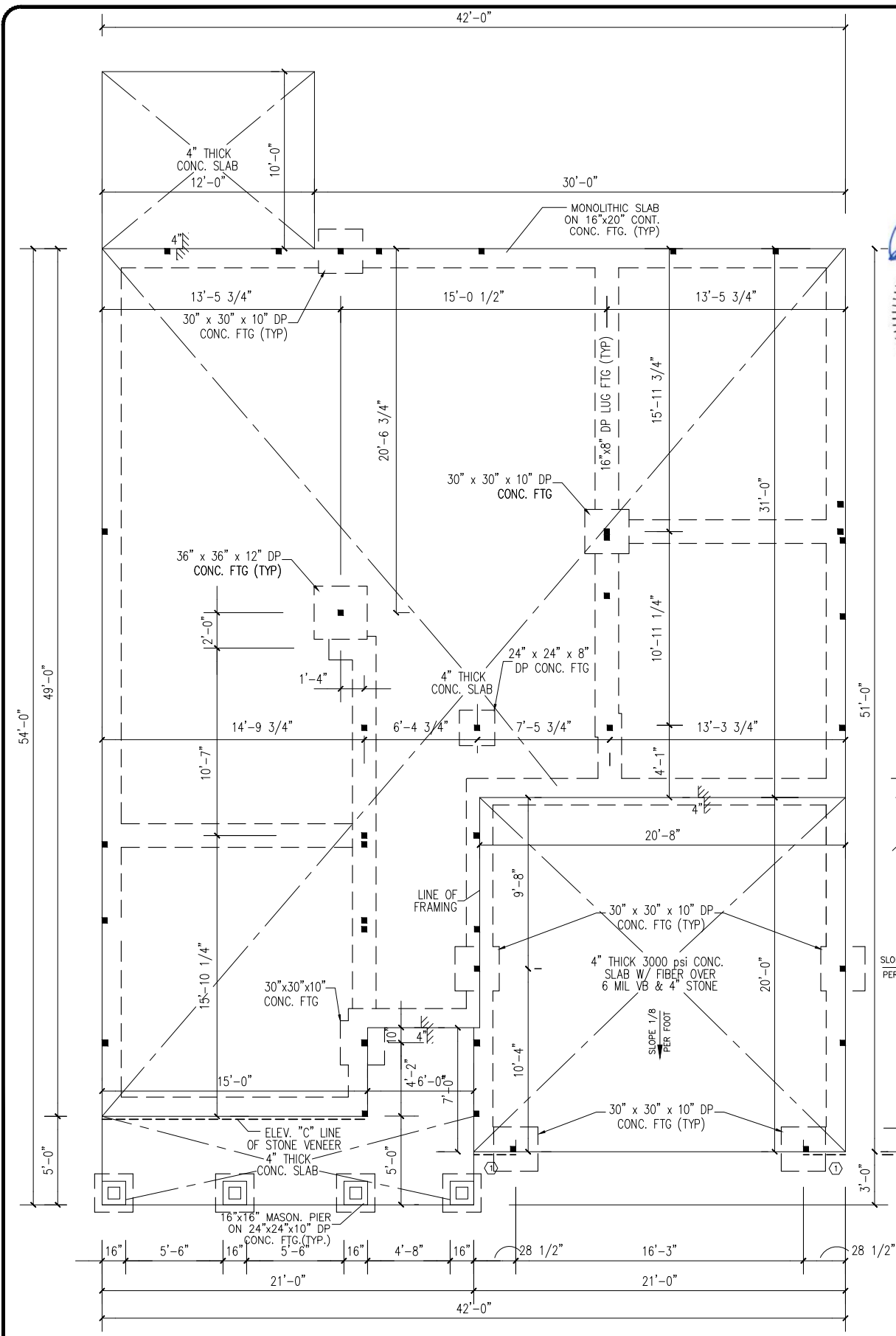


**STEM WALL FOUNDATION PLAN**



**SCALE**  
24"x36" = 1/4"=1'-0"  
11"x17" = 1/8"=1'-0"

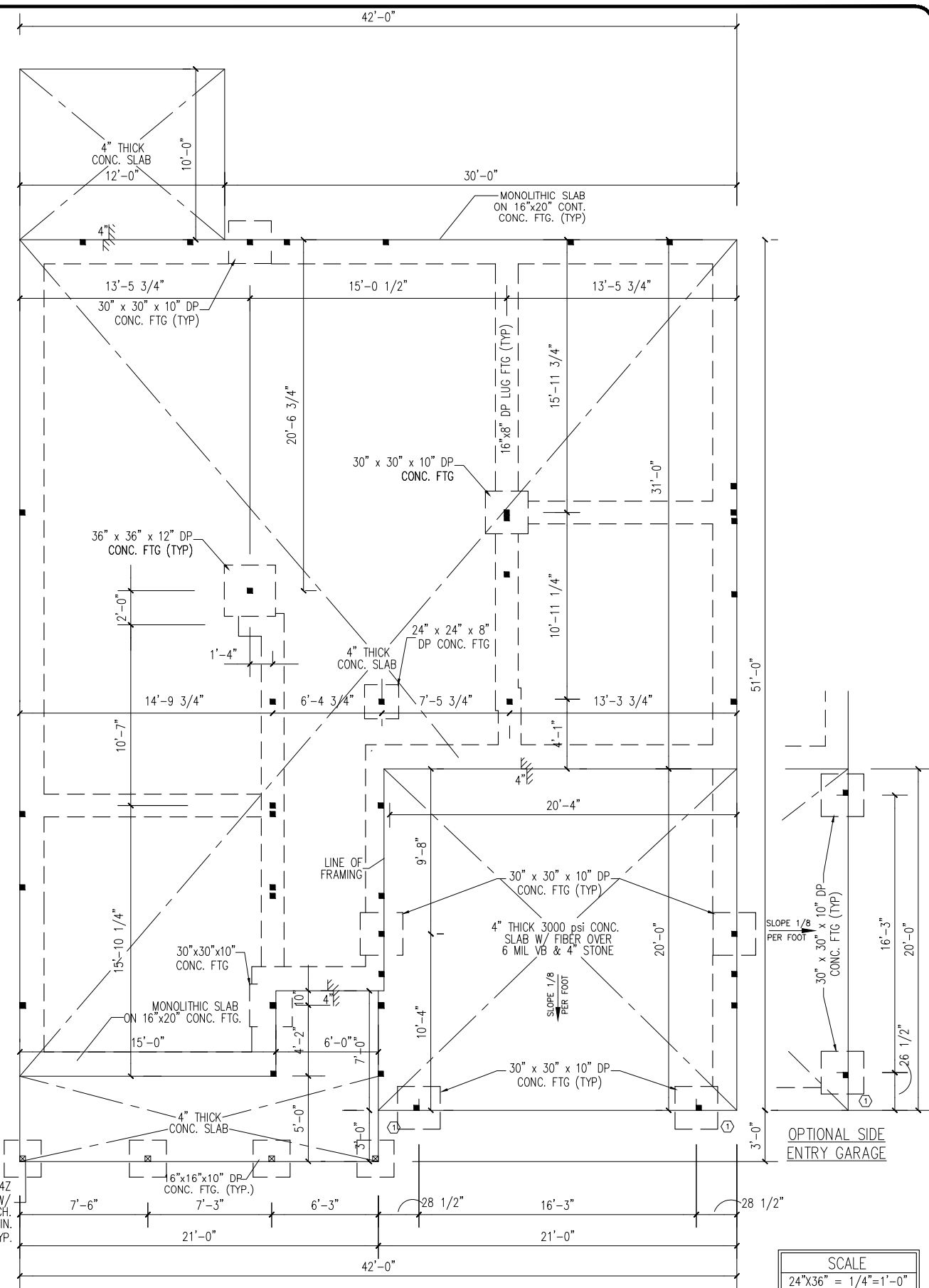
REVISIONS:	11/16/2020
314 EAST MAIN STREET CLAYTON, NC 27520 info@adamsandhodge.com 919-234-1332 FIRM # C-4187	
<b>ADAMS &amp; HODGE</b> ENGINEERING, P.C.	
<b>AS&amp;H</b>	
<b>Stem Wall Foundation</b>	
<b>Hogan</b>	
FILE	
DESIGN ADS	
DRAWN ADS	
CHECKED	
DATE 05/22/2017	
SHEET 2	



Project Number: 1801-010011  
 \* Structural analysis based on NC Residential Building Code 2018  
 The Engineer's seal applies only to structural components on this document. The seal does not include construction means, methods, techniques, procedures, or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering's Liability.



MONOLITHIC SLAB FOUNDATION PLAN



SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"

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 11/16/2020

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 919-234-1332  
 FIRM # C-4187

ADAMS & HODGE  
 ENGINEERING, P.C.

AS&H

Monolithic Foundation

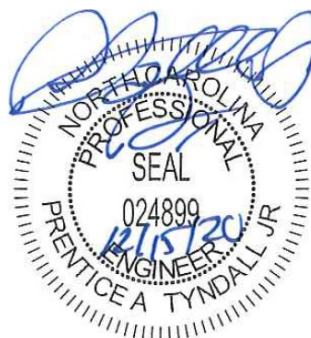
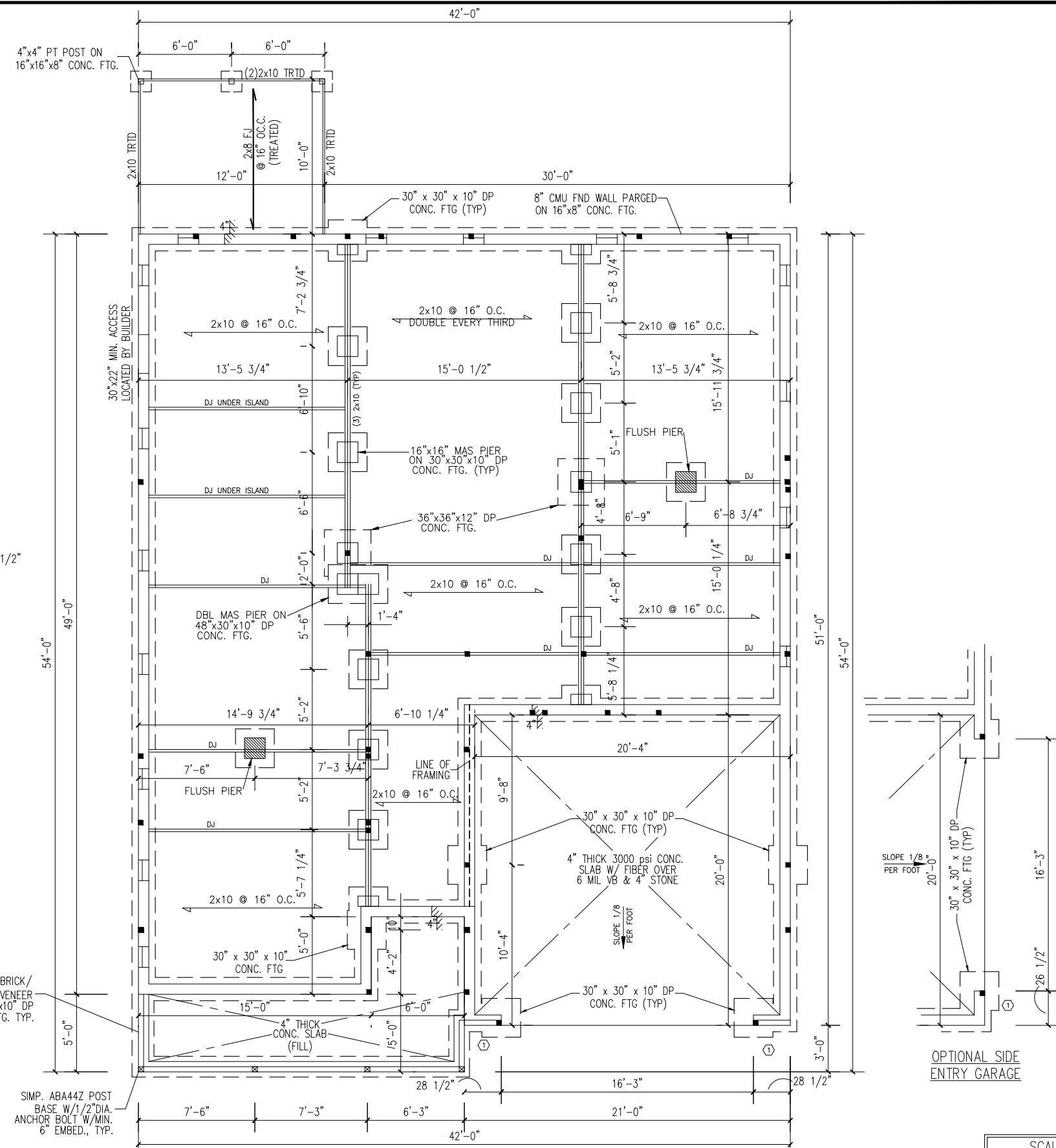
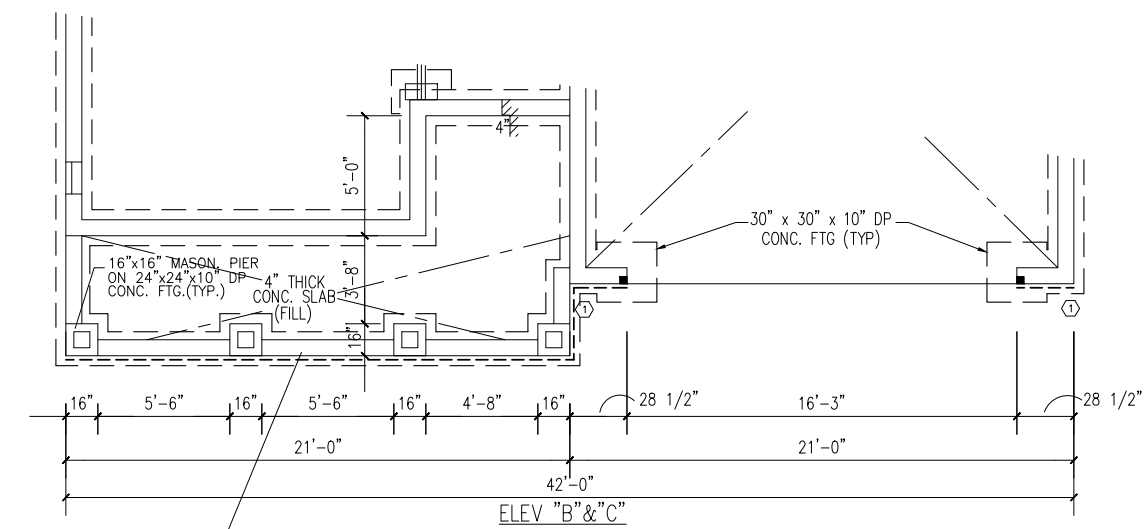
Hogan

FILE  
 DESIGN ADS  
 DRAWN ADS  
 CHECKED

DATE 01/16/2018  
 SHEET 3



CRAWL SPACE VENTILATION	
REQUIRED	1648 SQ. FT. / 150 = 10.99 SQ. FT. OF VENTILATION
PROVIDED	0.6 SQ. FT. / VENT = 7 VENTS = 11.67 (SQ. FT. OF VENTILATION)
THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQ. FT. FOR EA. 150 SQ. FT. OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3 FT. OF EA. CORNER OF SAID BUILDING.	



Project Number: 1801-010011  
\* Structural analysis based on NC Residential Building Code 2018  
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SCALE	
24"x36"	= 1/4" = 1'-0"
11"x17"	= 1/8" = 1'-0"

REVISIONS:  
11/16/2020

314 EAST MAIN STREET  
CLAYTON, NC 27520  
info@adamsandhodge.com  
919-234-1332  
FIRM # C-4187

ADAMS & HODGE  
ENGINEERING, P.C.

**A&H**

Crawl  
Foundation  
"A" & "C"

Hogan

FILE

DESIGN  
ADS

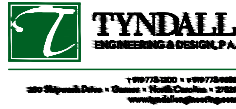
DRAWN  
ADS

CHECKED

DATE  
05/22/2017

SHEET

4



Project Number: 1801-010011  
 \*Structural analysis based on NC Residential Building Code 2018  
 The Engineer's seal applies only to structural components on this document. The seal does not include construction means, methods, techniques, procedures or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering's Liability.

RS = ROOF SUPPORT



DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DL	LL
FLOOR (primary)	40	10	L/240	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/180	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO)  
 ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (I.E. I-LEVEL MICROLAM)  
 ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5'-0" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD NAILED TOGETHER w/ (2) 10d @ 8" O.C. PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-0", OTHERWISE REFER TO TABLE R502.5(1).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLE R502.5(1) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 1/2" ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
- PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

STRUCTURAL SHEATHING NOTES

- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.  
 (1) REFERENCE FIGURE R602.10.4.3 OF THE 2018 NRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)  
 (2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS  
 (3) 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.

MIN. 4"x4" PT POST ON A MASON COLUMN RATED FOR 3000# W/(2)SIMP. LCE4Z (OR EQUIV.) AT CORNER POSTS AND (2)SIMP. AC4Z AT CENTER POSTS, TYP.

- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4), IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 300# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.  
 (5) MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED BRACING 1ST FLOOR  
 BWL 1 = 9.3 ft CS-WSP  
 BWL 2 = 9.3 ft CS-WSP  
 BWL A = 11.2 ft CS-WSP  
 BWL B = 11.2 ft CS-WSP

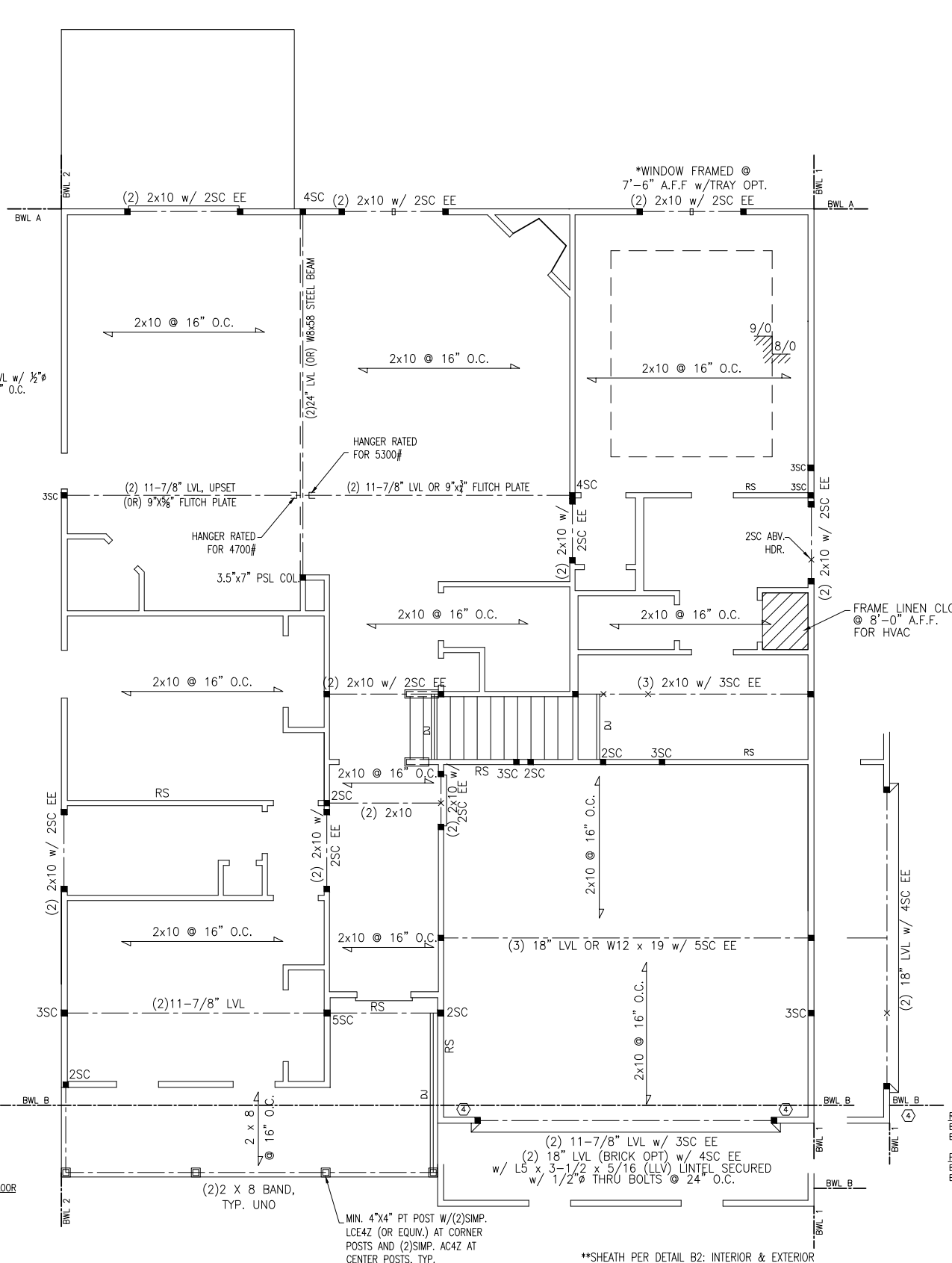
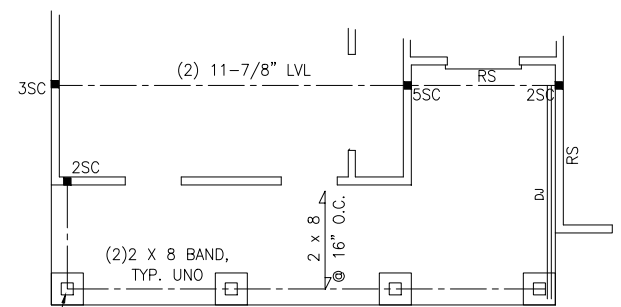
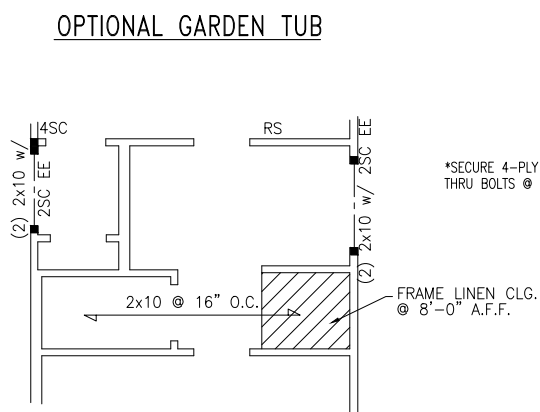
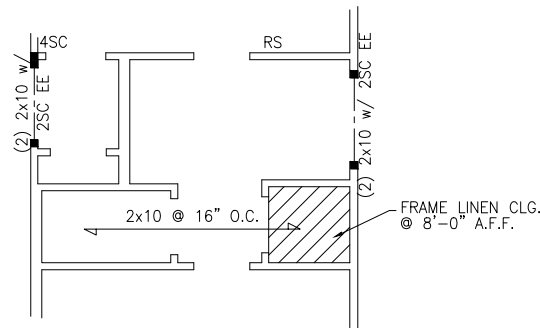
PROVIDED BRACING  
 BWL 1 = 47.0 ft  
 BWL 2 = 40.3 ft  
 BWL A = 25.0 ft  
 BWL B = 15.1 ft

MIN. 4"x4" PT POST W/(2)SIMP. LCE4Z (OR EQUIV.) AT CORNER POSTS AND (2)SIMP. AC4Z AT CENTER POSTS, TYP.

\*\*SHEATH PER DETAIL B2: INTERIOR & EXTERIOR SEE SD1

FIRST FLOOR STRUCTURAL PLANS

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"



REQUIRED BRACING 1ST FLOOR  
 BWL 1 = 9.3 ft CS-WSP  
 BWL B = 11.2 ft CS-WSP

PROVIDED BRACING  
 BWL 1 = 30.75 ft  
 BWL B = 26.67 ft

REVISIONS:  
 11/16/2020

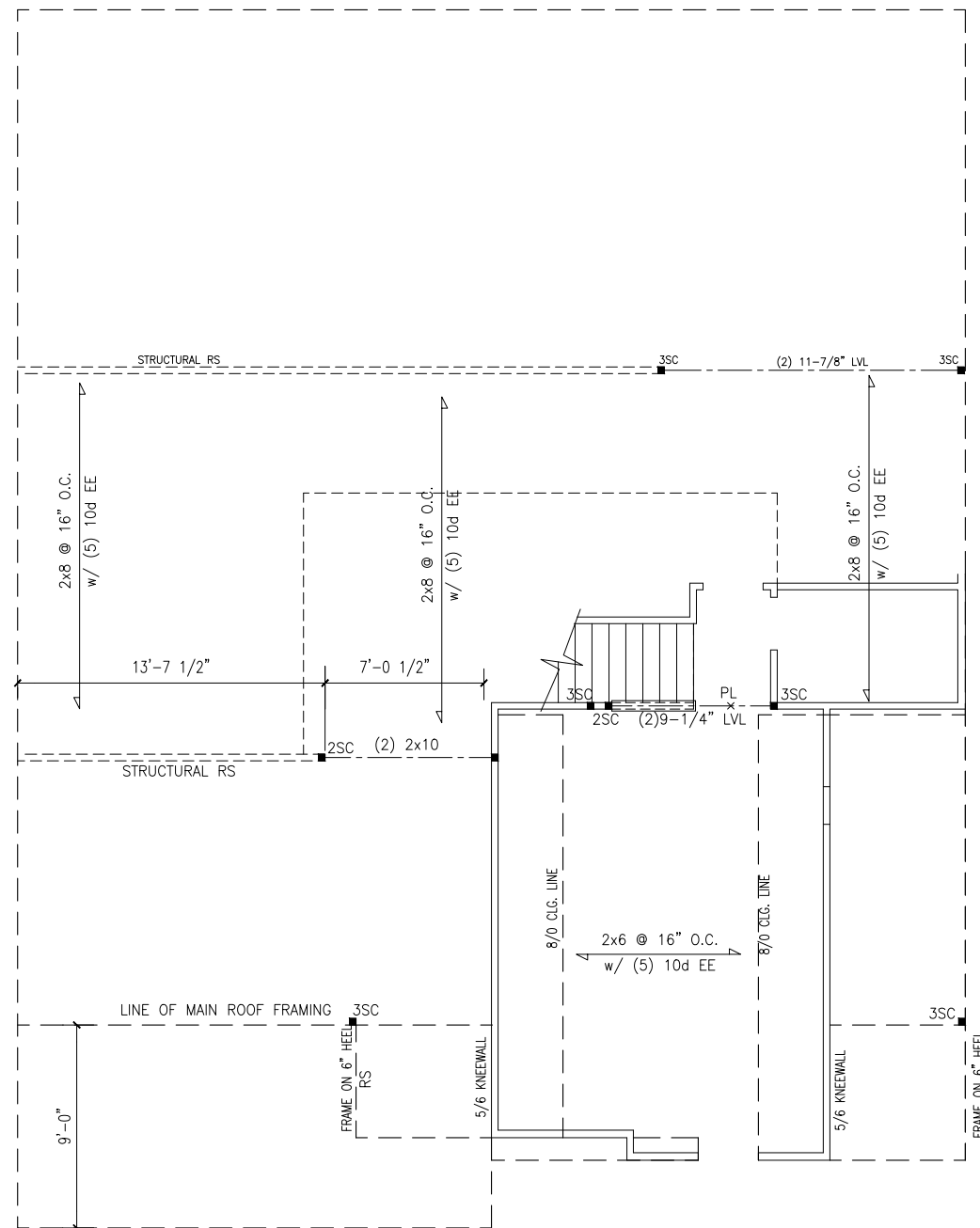
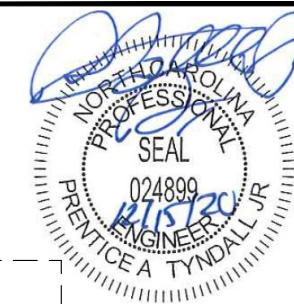
314 EAST MAIN STREET  
 CLAYTON, NC 27520  
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 FIRN # C-4187

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 ENGINEERING, P.C.

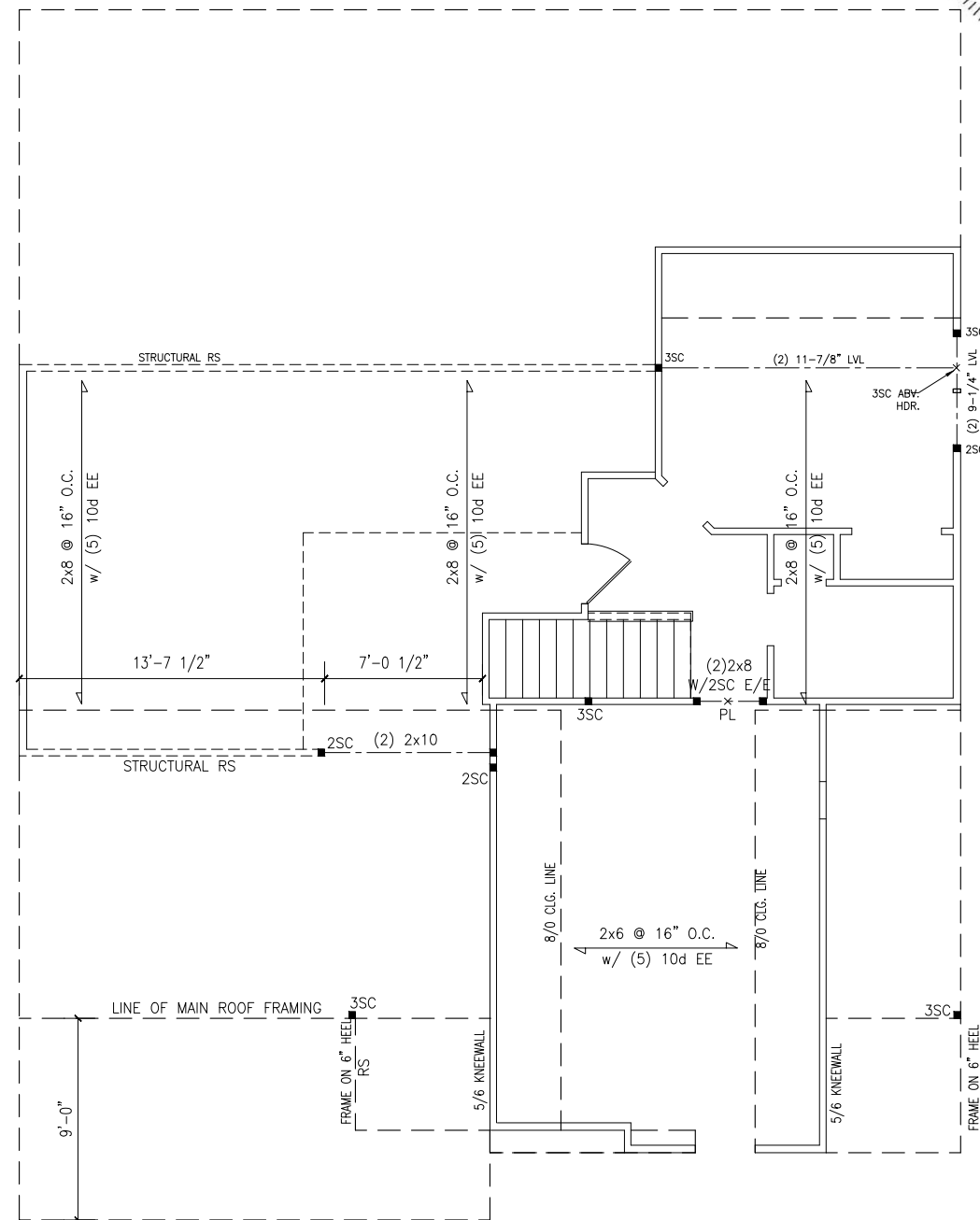
First Floor  
 Structural

Hogan

FILE  
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 DRAWN ADS  
 CHECKED  
 DATE 05/22/2017  
 SHEET 6



2ND FLOOR PLAN

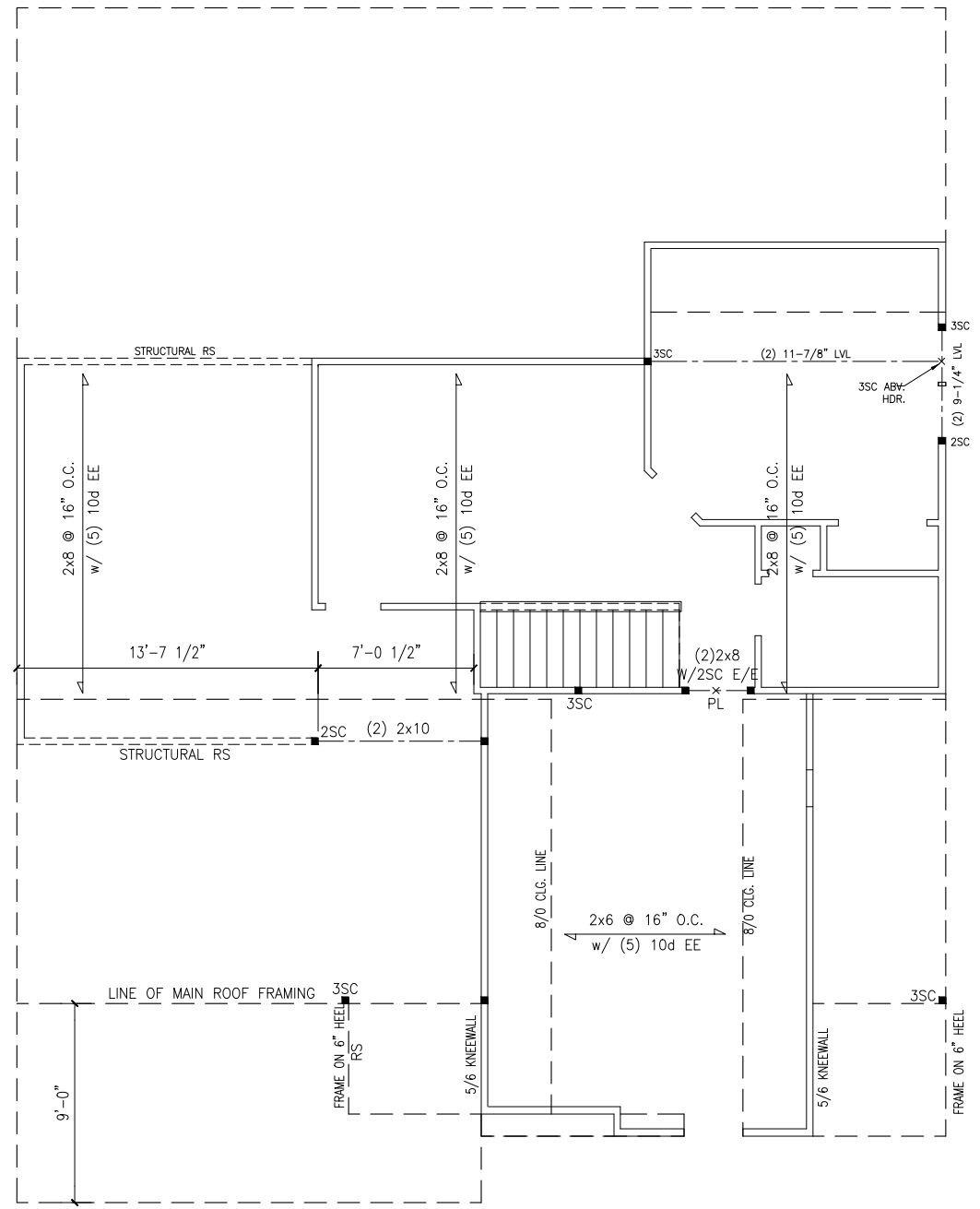
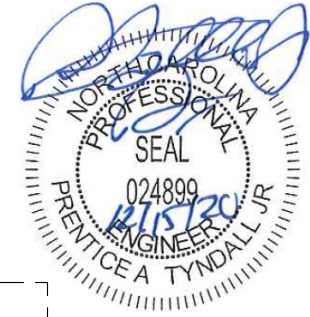


OPTIONAL  
BEDROOM #4

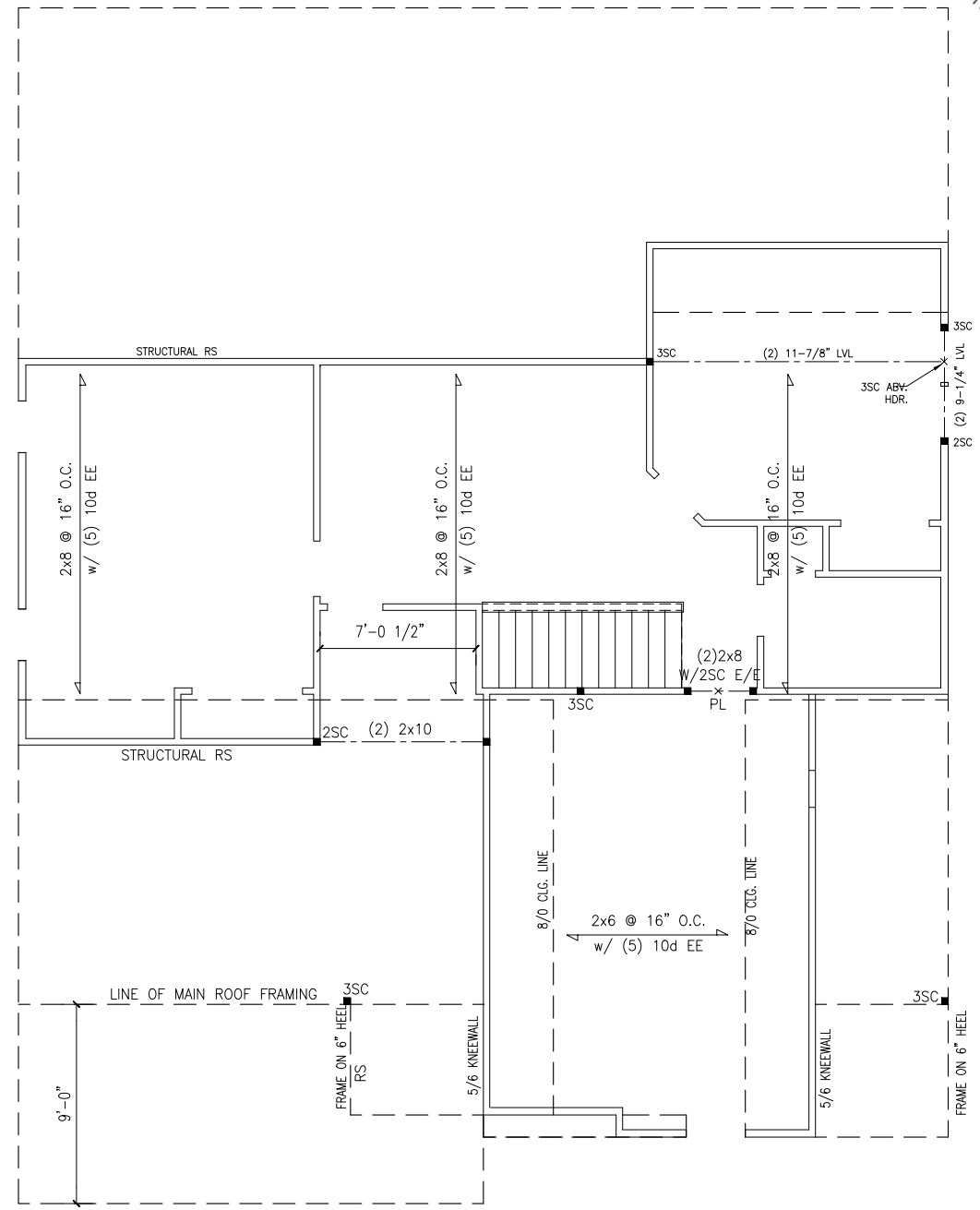
SCALE  
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11"X17" = 1/8"=1'-0"



RS = ROOF SUPPORT

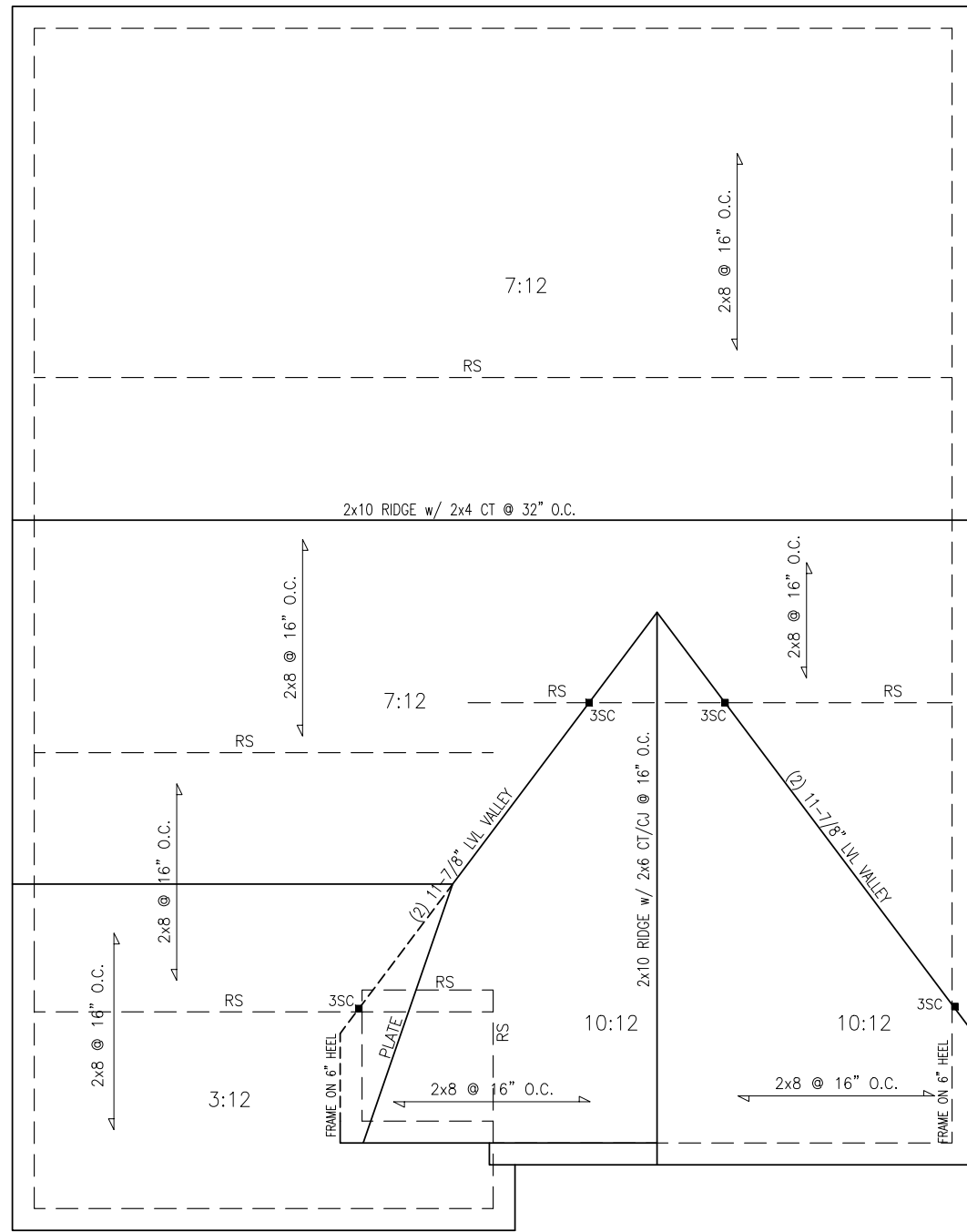


**OPTIONAL  
LOFT**



**OPTIONAL  
HOBBY ROOM/BEDROOM #5**

SCALE  
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11"x17" = 1/8"=1'-0"

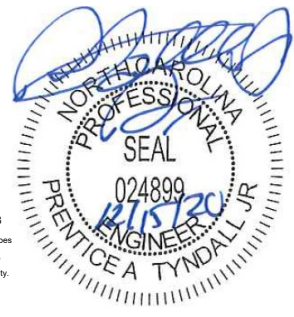


ROOF FRAMING PLAN

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"

PROVIDE SIMPSON H2.5A @ EACH RAFTER  
 (TYP @ SCREEN PORCHES & VAULTED AREAS)

RS = ROOF SUPPORT



Project Number: 1801-010011  
 \* Structural analysis based on NC Residential Building Code 2018  
 The Engineer's seal applies only to structural components on this document. The seal does not include construction means, methods, techniques, procedures, or safety precautions. Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering's Liability.

REVISIONS:  
 11/16/2020

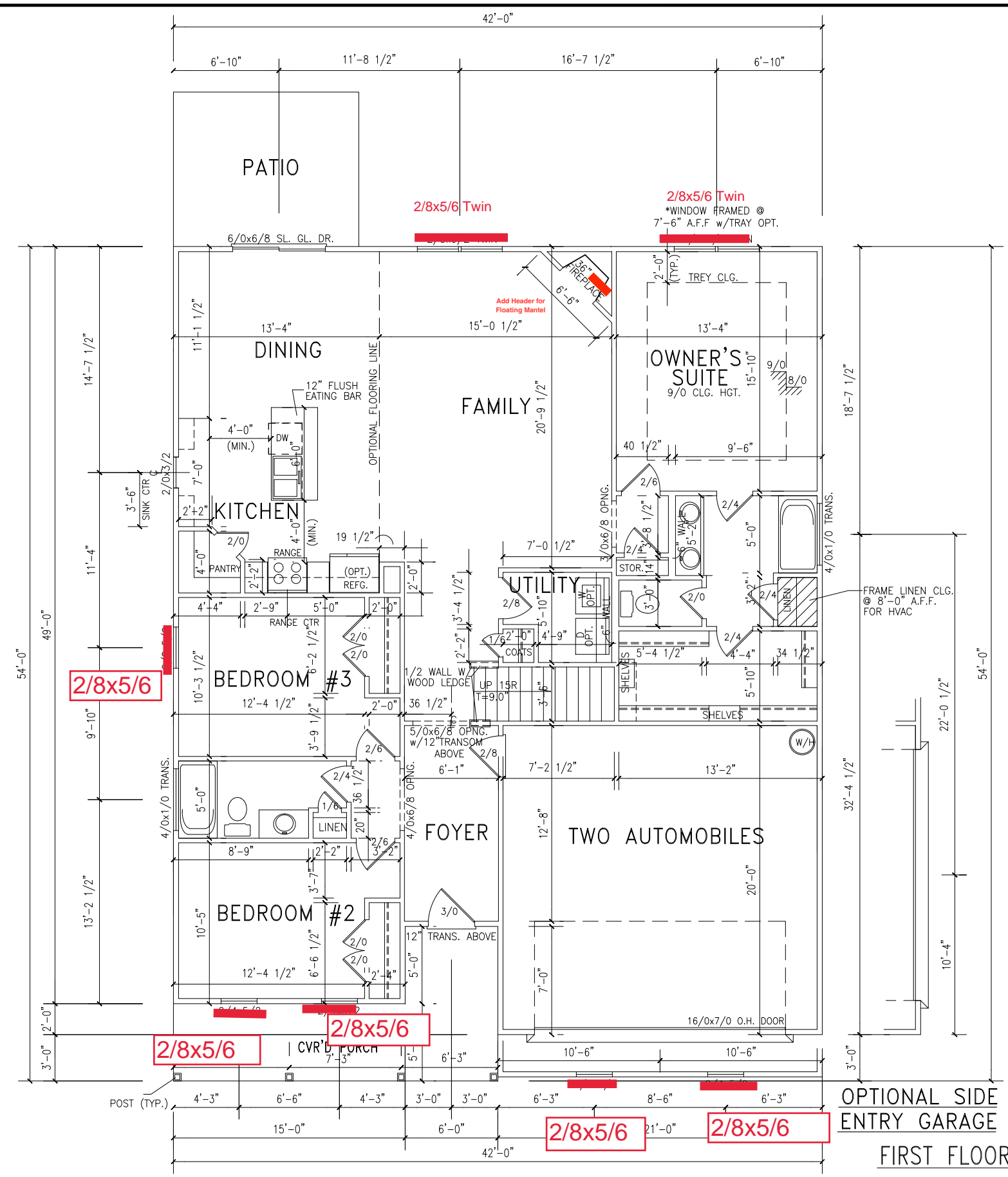
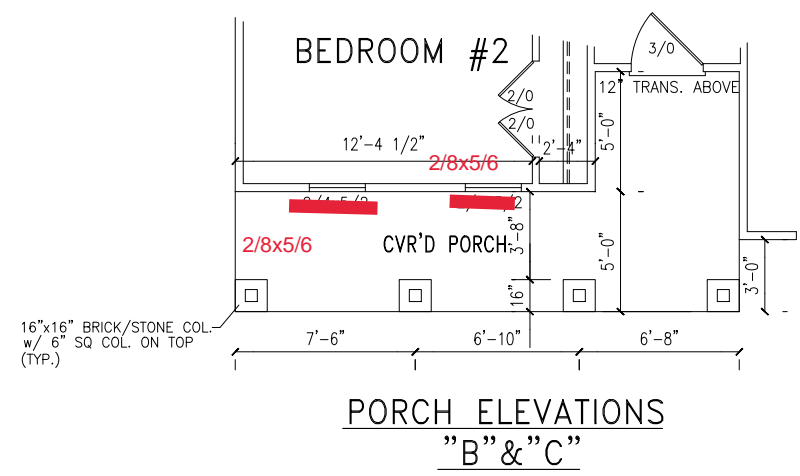
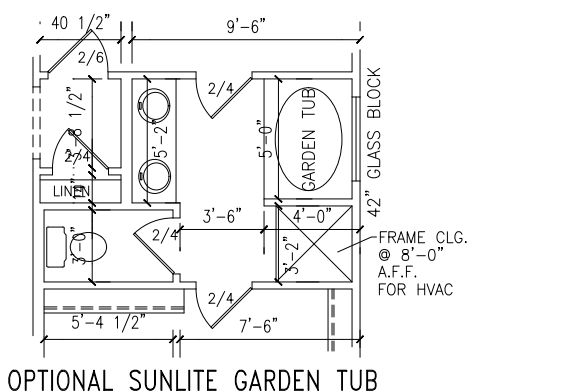
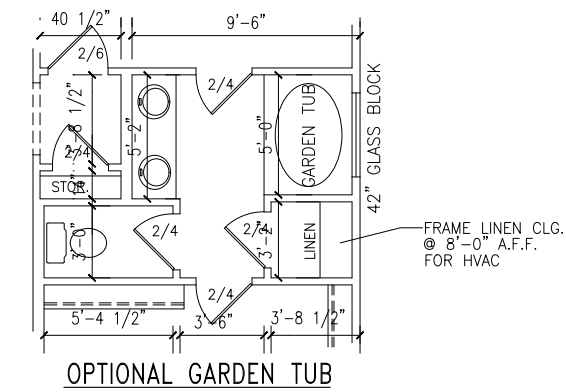
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 CLAYTON, NC 27520  
 info@adamsandhodge.com  
 919-243-1332  
 FIRM # C-4187



Roof Framing

Hogan

FILE  
 DESIGN ADS  
 DRAWN ADS  
 CHECKED  
 DATE 05/22/2017  
 SHEET



SQUARE FOOTAGE	
1ST FLOOR HTD.	1654
2ND FLOOR HTD.	363
2ND FLOOR HTD. OPT 4TH BDRM	590
2ND FLOOR HTD. OPT LOFT	739
2ND FLOOR HTD. OPT 5TH BDRM	974
TOTAL STANDARD	2017
TOTAL OPT 4TH BDRM	2244
TOTAL OPT LOFT	2393
TOTAL OPT 5TH BDRM	2628
GARAGE	426
PATIO/DECK	120
ELEVATION "A" PORCH	135
ELEVATION "B" PORCH	135
ELEVATION "C" PORCH	135

- NOTES:
- 9'-0" CLG. HGT. (9'-1 1/2" PLT. HGT.) UNLESS OTHERWISE NOTED.
  - ALL EXTERIOR WALLS FIGURED AT 4" NOMINAL WIDTHS UNLESS OTHERWISE NOTED.
  - ALL INTERIOR WALLS FIGURED AT 3 1/2" WIDTHS UNLESS OTHERWISE NOTED.
  - SET WINDOWS AT 7'-11 1/4" A.F.F. UNLESS OTHERWISE NOTED.
  - DIMENSIONS ARE TO FRAMING UNLESS OTHERWISE NOTED.

SCALE	
24"x36" = 1/4"=1'-0"	
11"x17" = 1/8"=1'-0"	

REVISIONS:  
11/16/2020

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ADAMS & HODGE  
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Elevation "A"

Hogan

FILE

DESIGN ADS

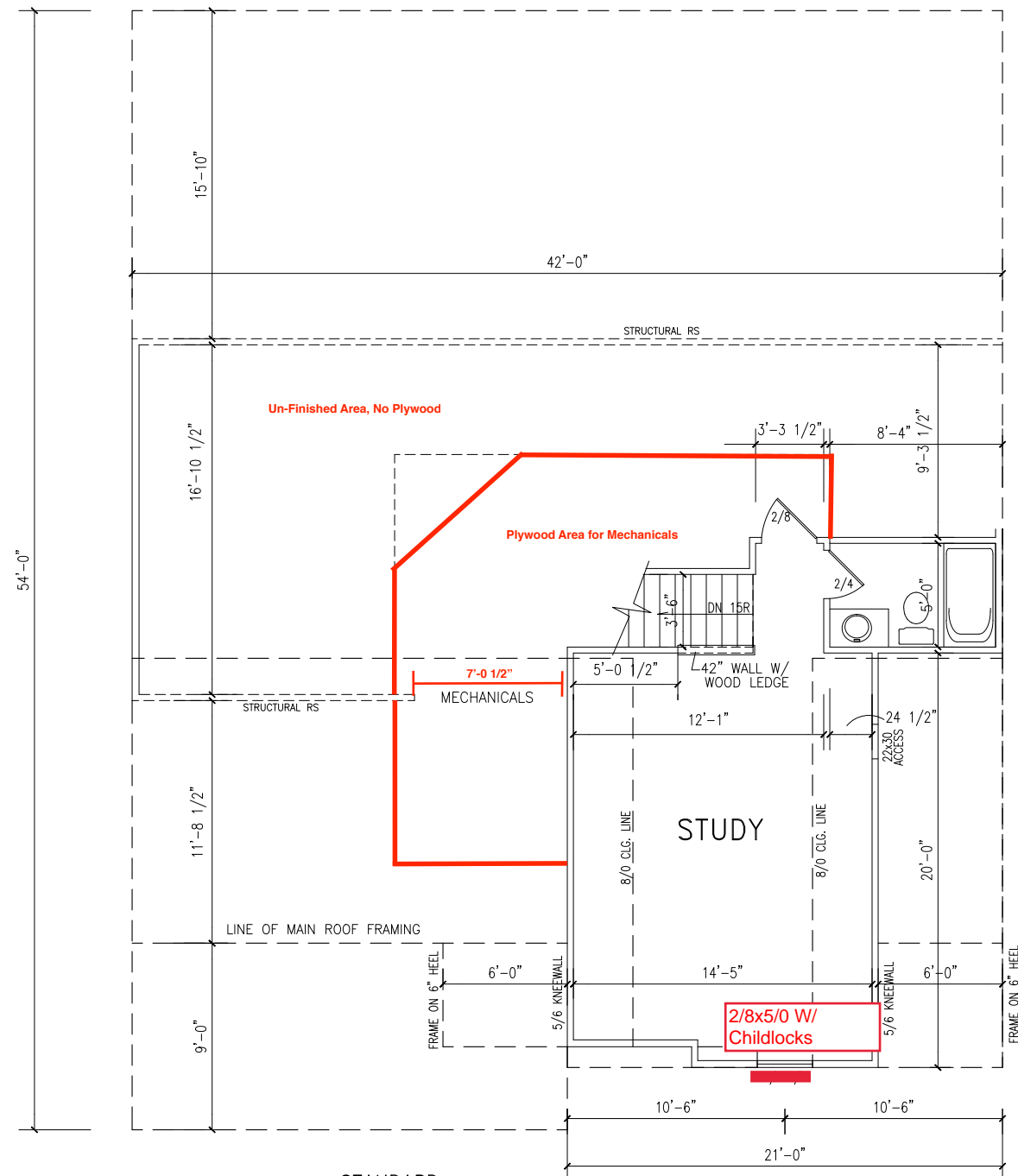
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DATE 05/22/2017

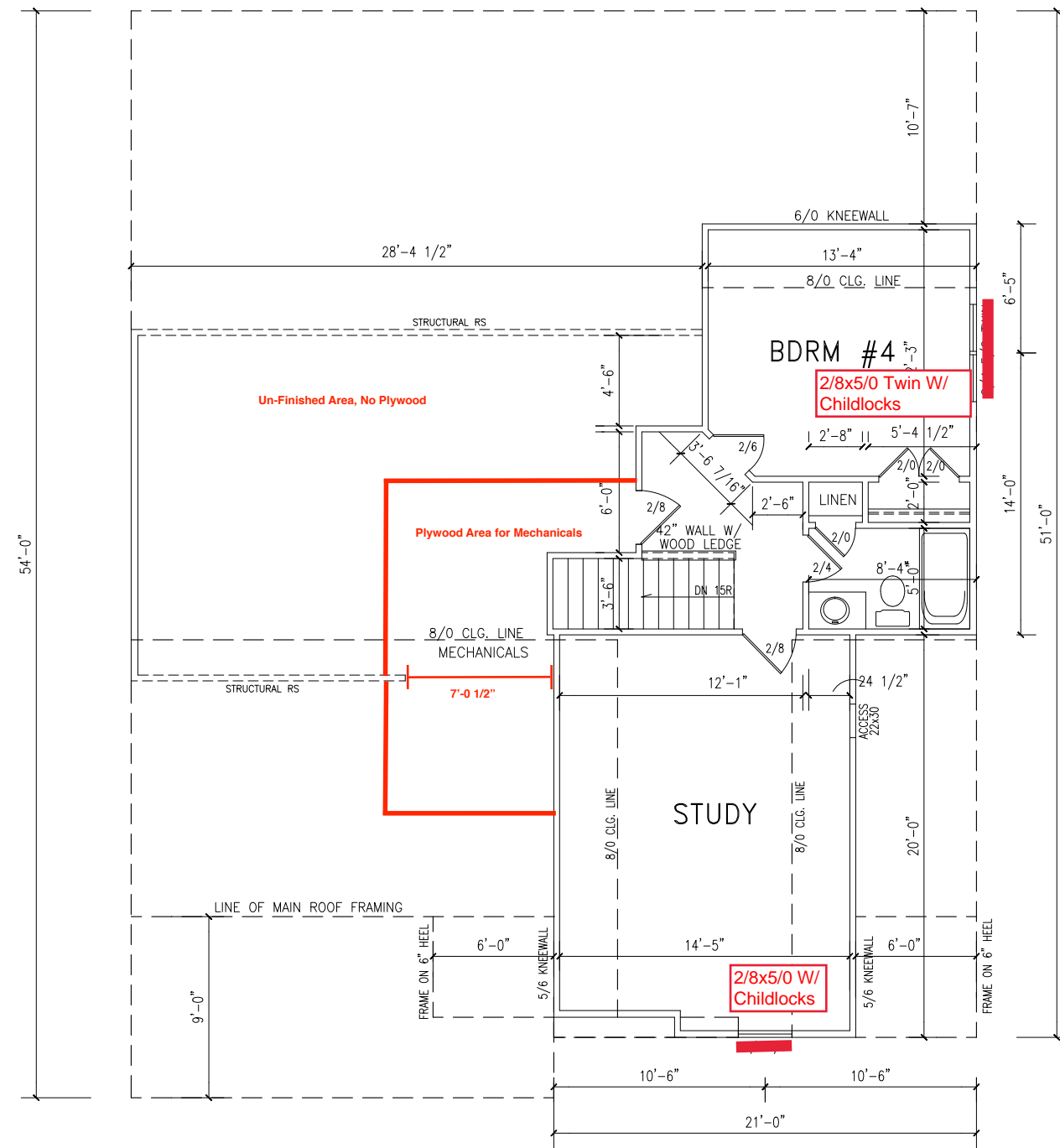
SHEET 10





STANDARD  
2ND FLOOR PLAN

364 HTD SQ. FT.



OPTION #2  
w/ 2ND FLOOR PLAN

739 HTD SQ. FT.

REVISIONS:

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2nd Floor  
Options

Hogan

FILE

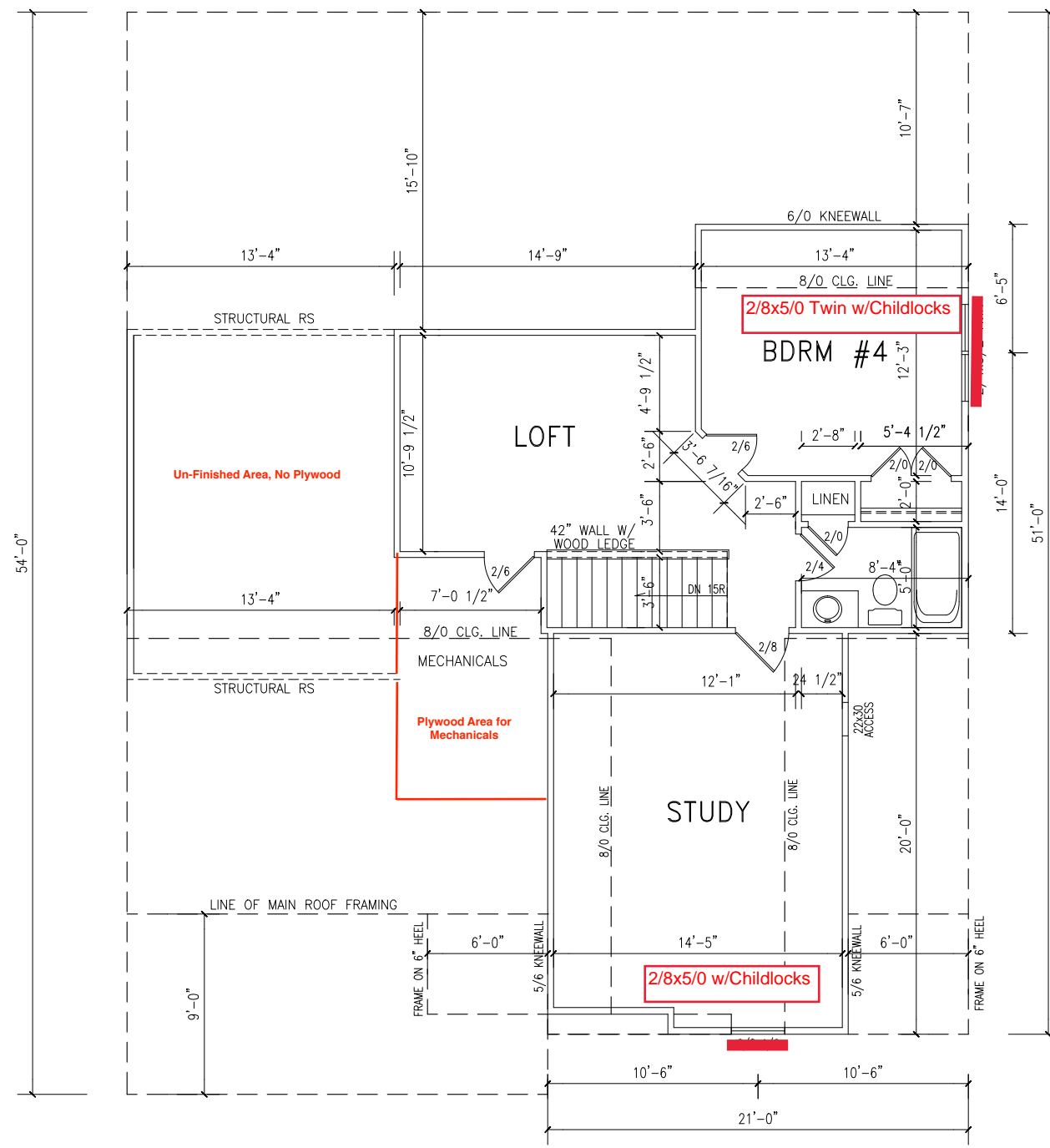
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ADS

DRAWN  
ADS

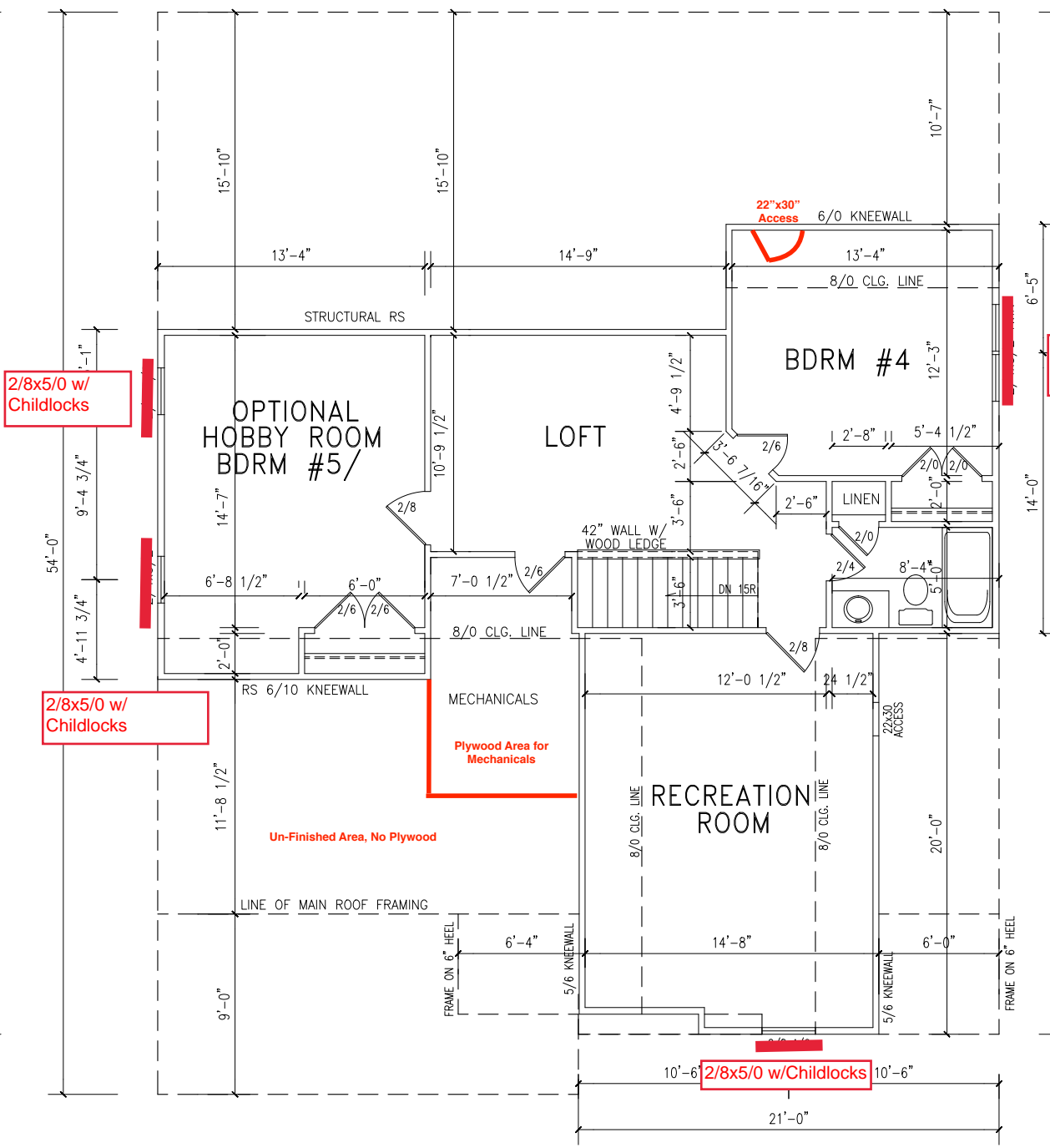
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DATE  
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SHEET



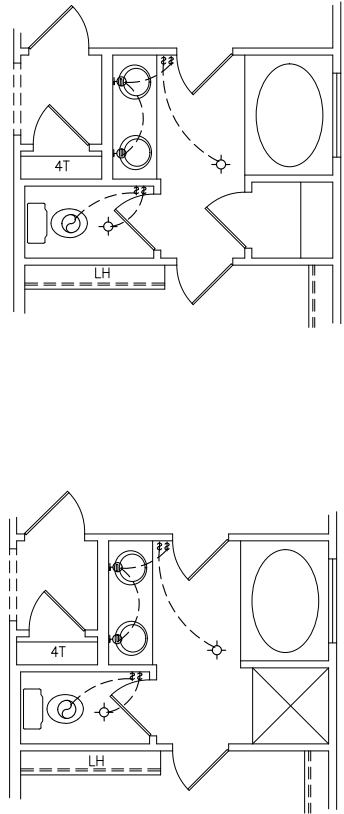
**OPTION #2**  
w/ 2ND FLOOR PLAN  
739 HTD SQ. FT.



**OPTIONAL BEDROOM #5/  
HOBBY ROOM**  
739 HTD SQ. FT.

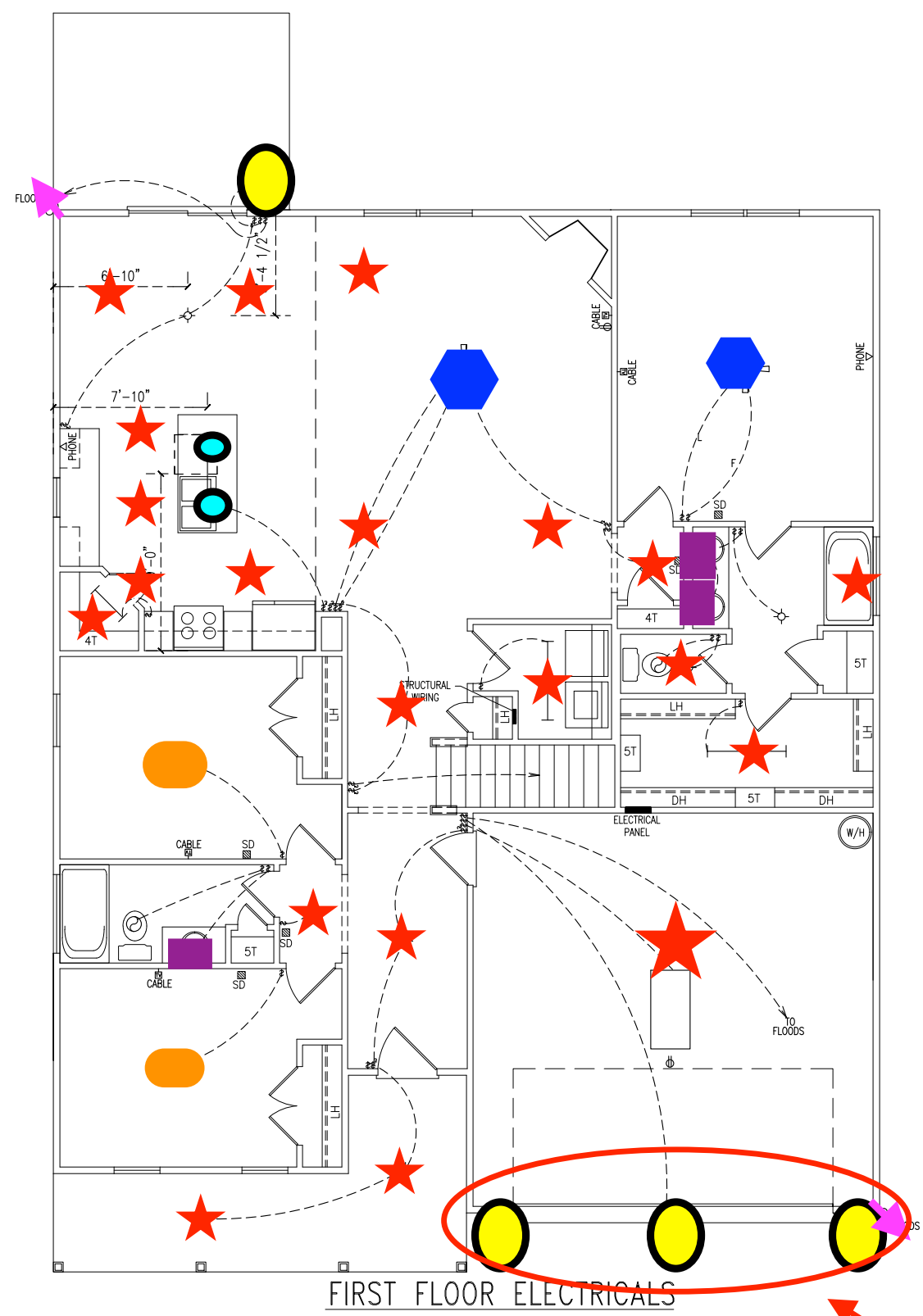
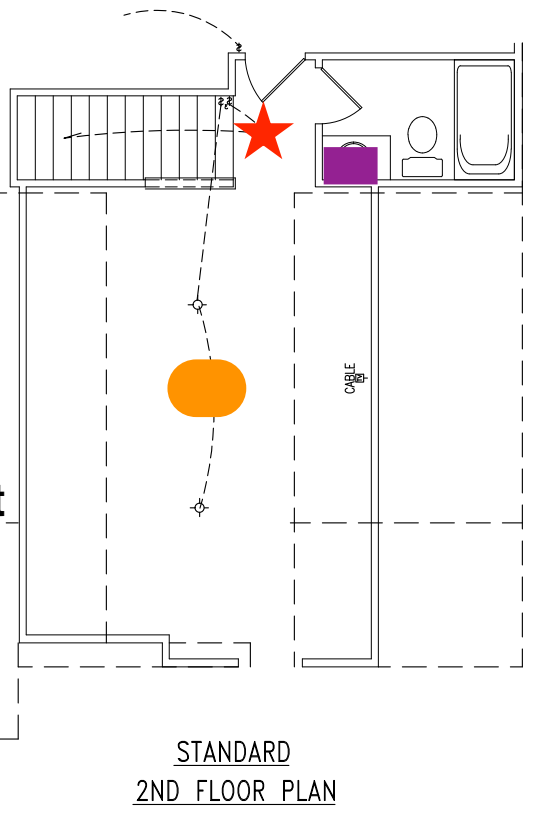


ELECTRICAL SYMBOLS			
	CEILING MOUNTED LIGHT FIXTURE		SINGLE RECEPTACLE OUTLET
	DIRECTIONAL CLG. LIGHT FIXTURE		DUPLEX RECEPTACLE OUTLET
	RECESSED LIGHT FIXTURE		QUADRUPLEX RECEPTACLE OUTLET
	WALL MOUNTED LIGHT FIXTURE		FLOOR OUTLET
	EXTERIOR FLOOD LIGHT		DUPLEX RECEPTACLE OUTLET SPLIT USED
	TRACK LIGHT FIXTURE		220 VOLT OUTLET
	CHIMES		WATER PROOF OUTLET
	SINGLE POLE WALL SWITCH		TELEPHONE OUTLET
	3-WAY POLE WALL SWITCH		TV OUTLET
	FOUR-WAY SWITCH		GROUND FAULT INTERCEPTOR
	GROUND FAULT INTERCEPTOR		RECESSED LIGHT FIXTURE ANGLE CUT
	WATER PROOF SWITCH		PULL CHAIN LIGHT FIXTURE
	DIMMER SWITCH		FLUORESCENT LIGHT BOX
	TIMER SWITCH		CEILING FAN
	FLUORESCENT LIGHT		EXHAUST FAN
	ELECTRICAL OUTLET GARAGE DOOR OPENER		SMOKE DETECTOR
	HANGING LIGHT FIXTURE		EXHAUST FAN/LIGHT
	CEILING FAN/LIGHT		SHOWER LIGHT



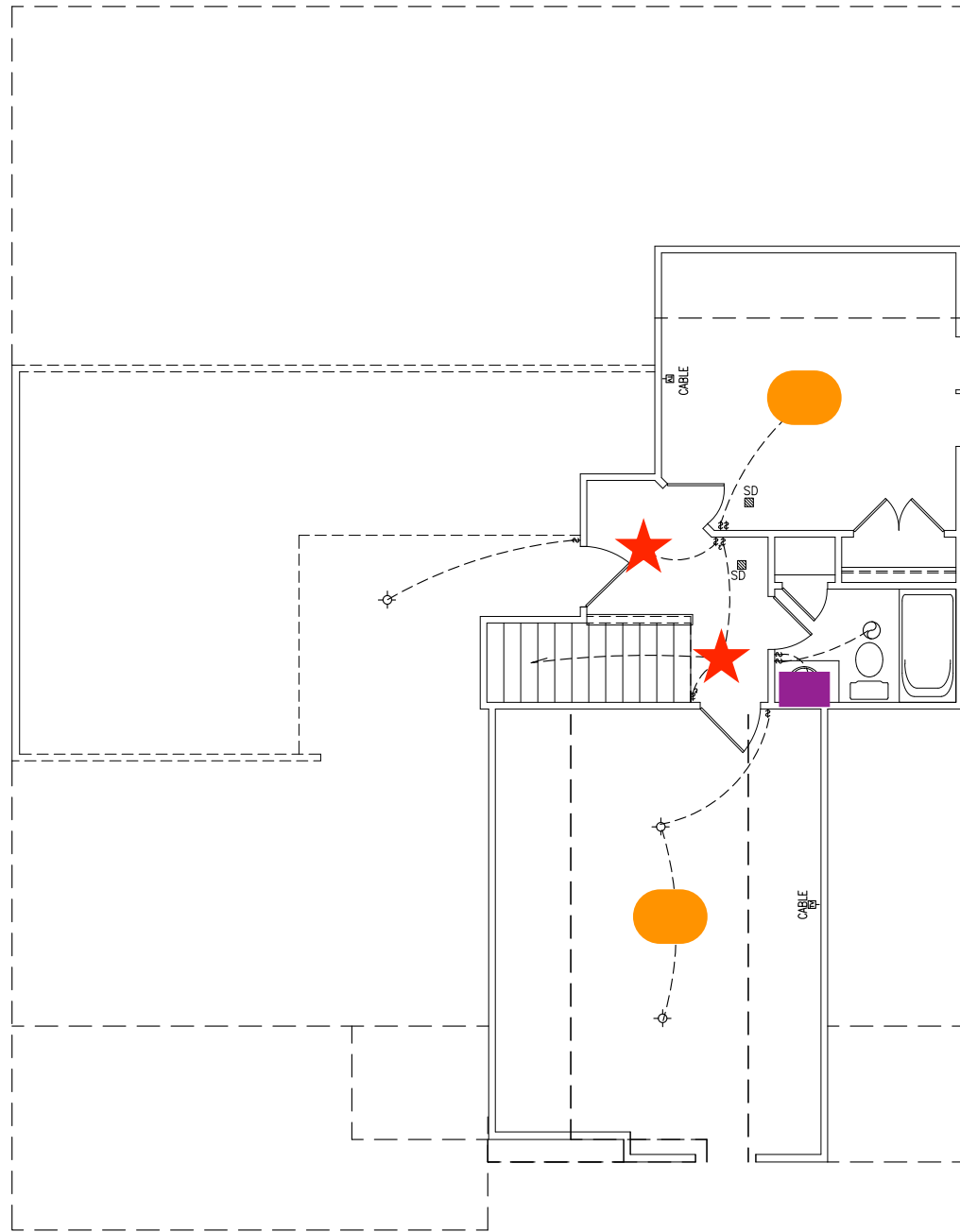
NOTE:  
 (1) ALL RECEPTACLE PLACEMENT TO CODE.  
 (2) PLEASE NOTE RECEPTACLE PLACEMENT PER FSC.

- Disk Light**
- Pendant Light**
- Vanity Wall Fixture**
- Ceiling Fan**
- Flush Mount**
- Exterior Wall Mount**
- Flood Lights**
- Ceiling Fan Pre-wire**

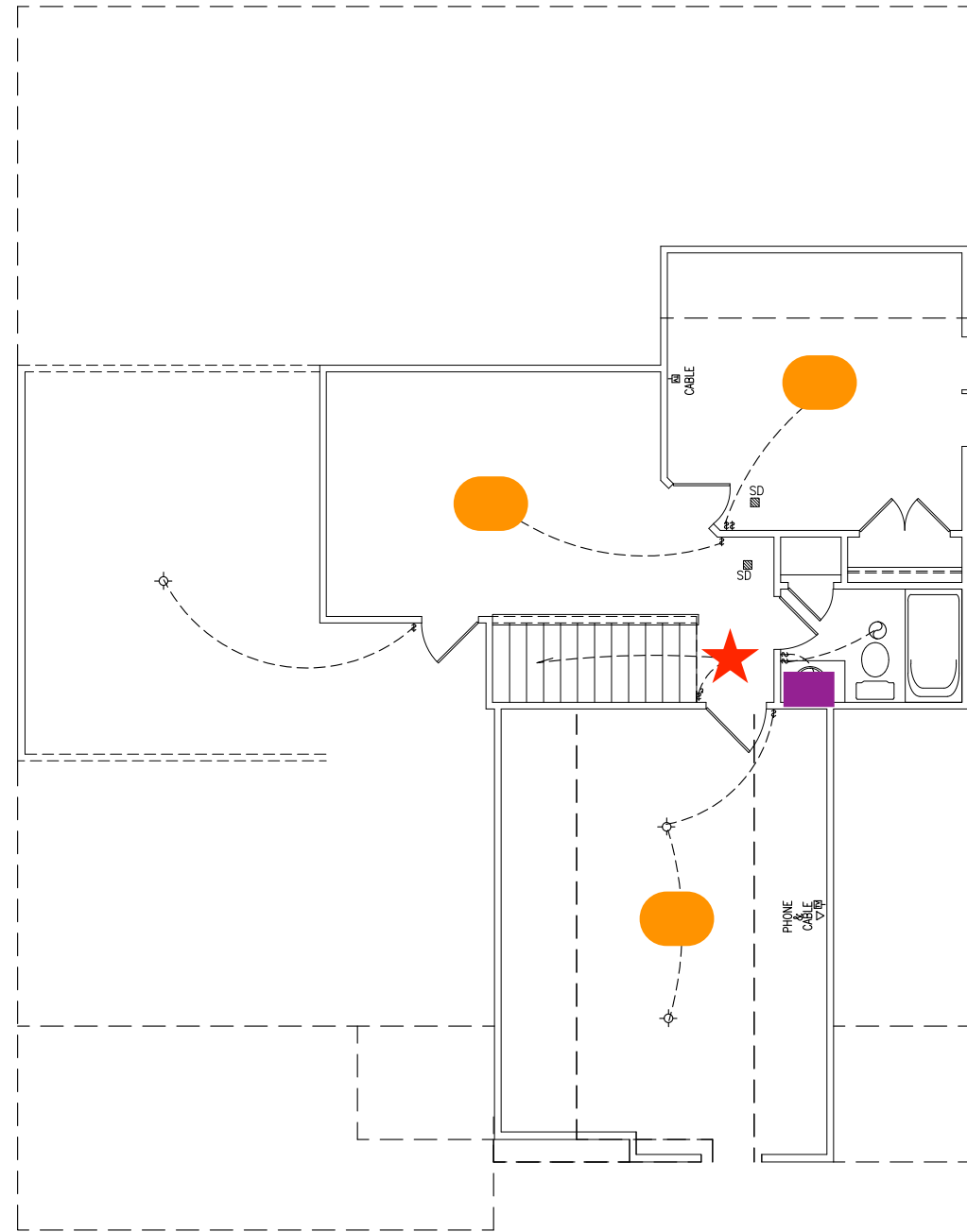


**1 Above Garage  
OR  
2 on Sides**

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"



OPTIONAL  
BEDROOM #4



OPTIONAL  
LOFT

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11/06/2020

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ADAMS & HODGE  
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Second Floor  
Electricals

Hogan

FILE

DESIGN  
ADS

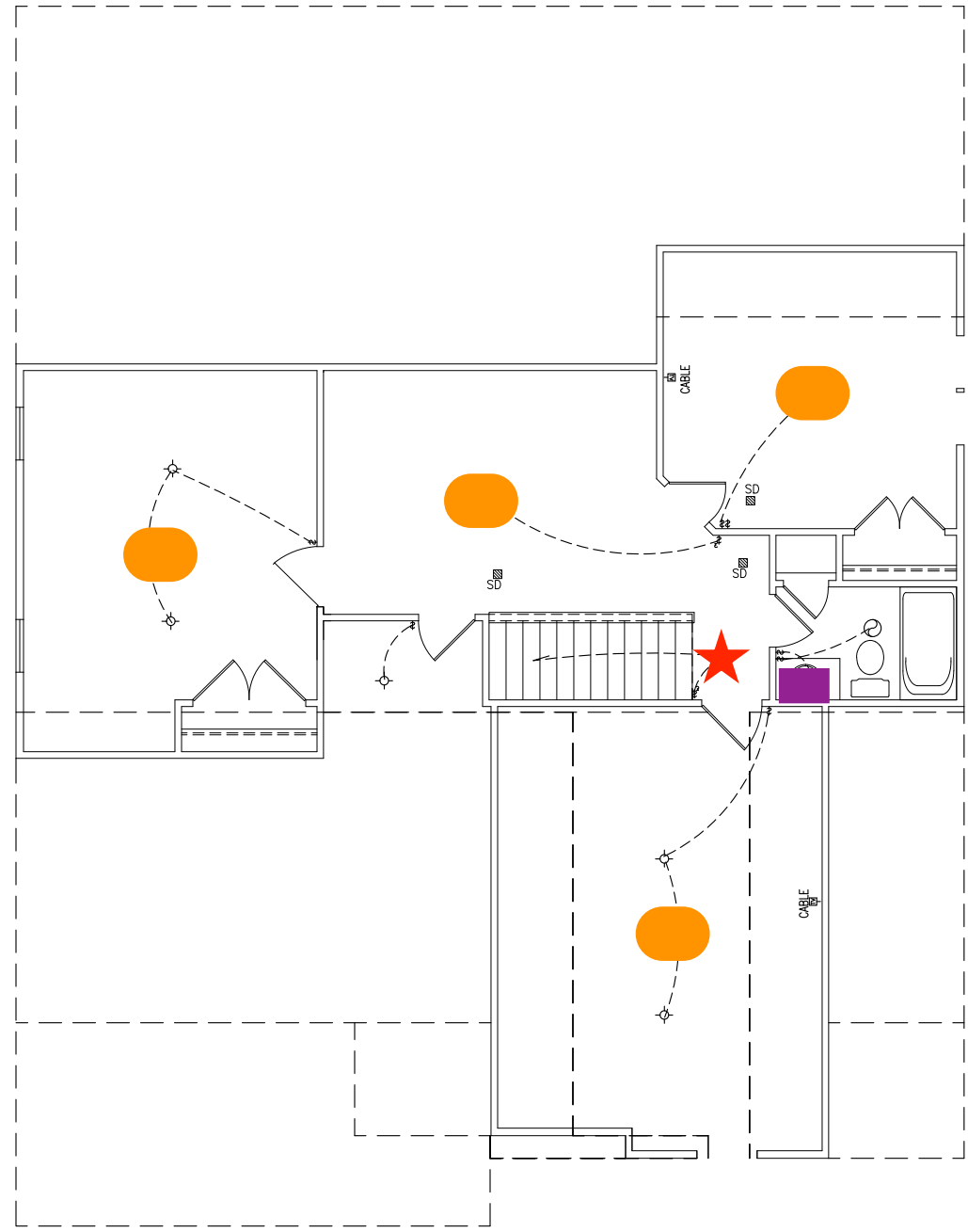
DRAWN  
ADS

CHECKED

DATE  
05/22/2017

SHEET

14



OPTIONAL  
HOBBY ROOM/BEDROOM #5

SCALE  
 24"x36" = 1/4"=1'-0"  
 11"x17" = 1/8"=1'-0"

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Second Floor  
 Electricals

Hogan

FILE

DESIGN  
 ADS

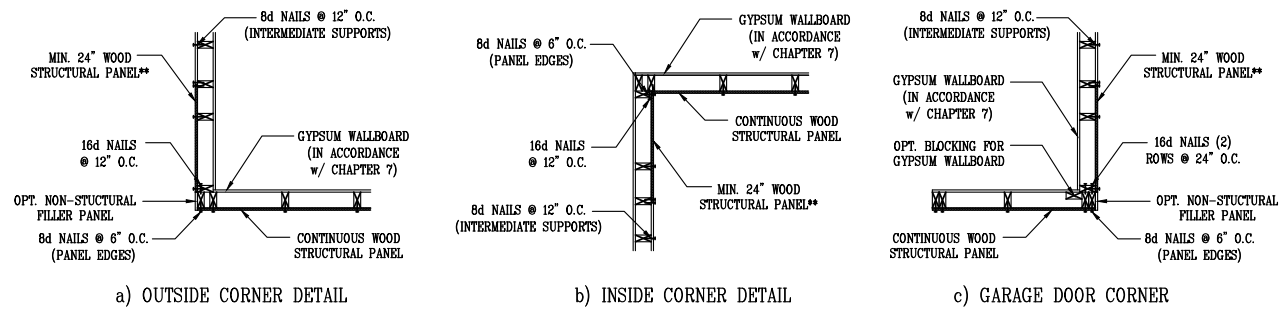
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DATE  
 05/22/2017

SHEET

15



a) OUTSIDE CORNER DETAIL      b) INSIDE CORNER DETAIL      c) GARAGE DOOR CORNER

\*\* IN LIEU OF THE 24" (MIN.) CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

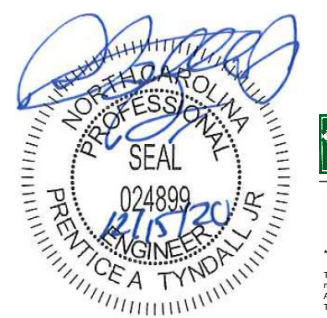
**B1: TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING**  
NO SCALE

**STRUCTURAL SHEATHING NOTES**

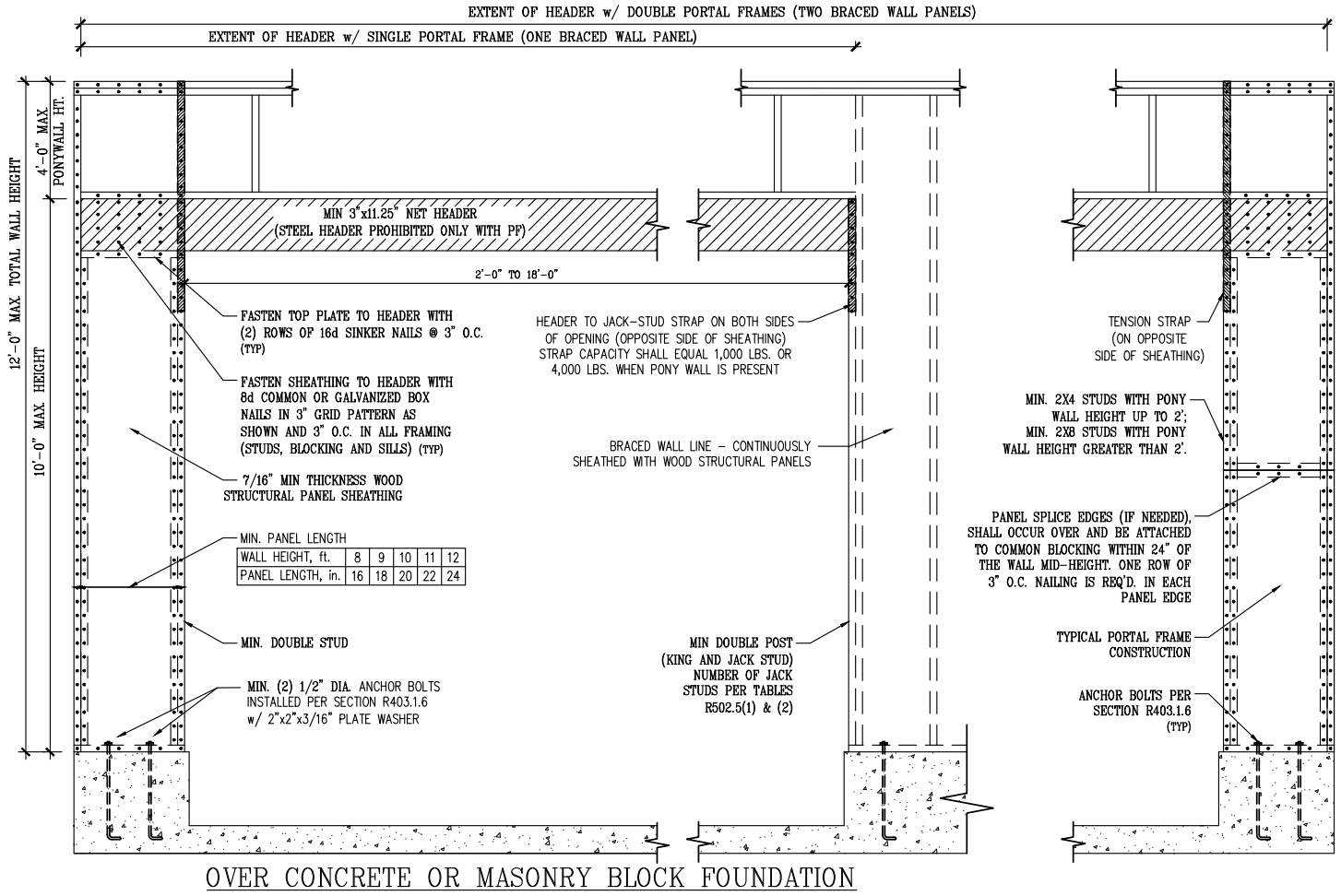
- DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
  - REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
  - 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
  - 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS.
- MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS:
  - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT
  - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT
  - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.
- MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED BRACED WALL PANEL CONNECTIONS				
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION	
			@ PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.

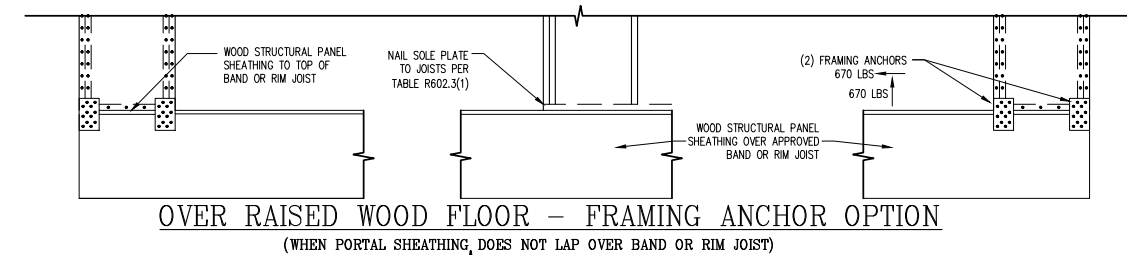
\*\*OR EQUIVALENT PER TABLE R702.3.5  
**B4: BRACE WALL PANEL CONNECTIONS**



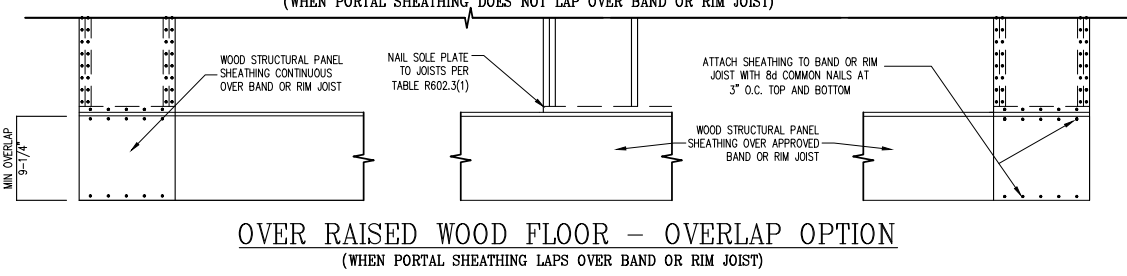
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ENGINEERING & DESIGN, P.A.  
1801-010011  
\*Structural analysis based on NC Residential Building Code 2018  
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**OVER CONCRETE OR MASONRY BLOCK FOUNDATION**

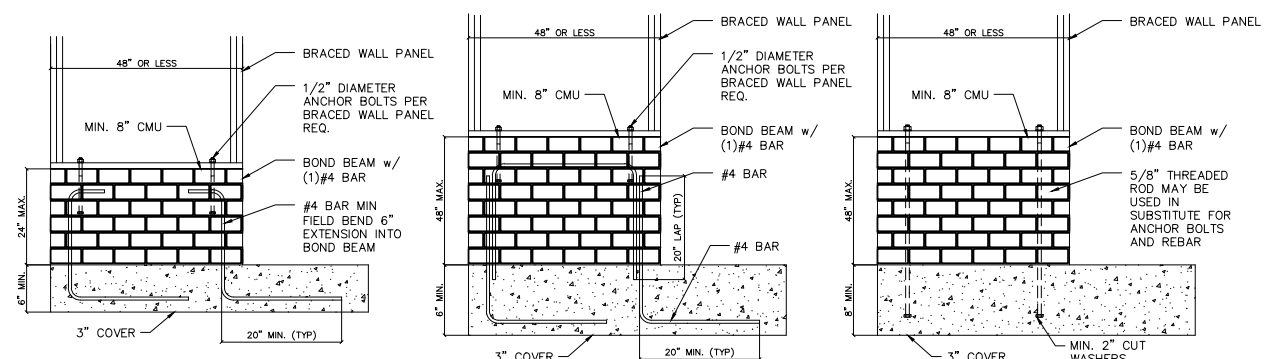


**OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION**  
(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)



**OVER RAISED WOOD FLOOR - OVERLAP OPTION**  
(WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

**B2: METHOD CS-PF: CONTINUOUSLY SHEATHED PORTAL FRAME**  
FIGURE R602.10.1



**B5: MASONRY STEM WALL SUPPORTING BRACED WALL PANELS**  
FIGURE R602.10.9 OF THE IRC  
NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS