

DREAM

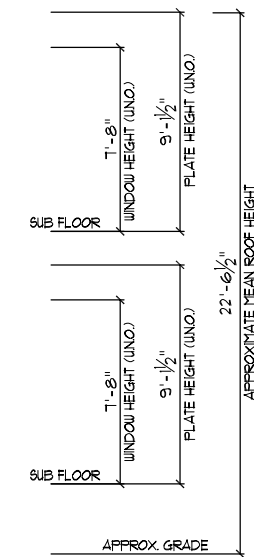
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dreamhomesbydesign@gmail.com

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

THIS PLAN CONFORMS TO THE 2018 VERSION OF THE I.R.C. NC RESIDENTIAL CODE.

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

11/16/2021


LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"

PLAN / PROJECT NAME:

HUNGERFORD

PROJECT FOR:
CHAMBERLAIN HOMES, LLC

PROJECT ADDRESS:
250 FIELDSTONE DRIVE
HOLLY SPRINGS, NC
27540

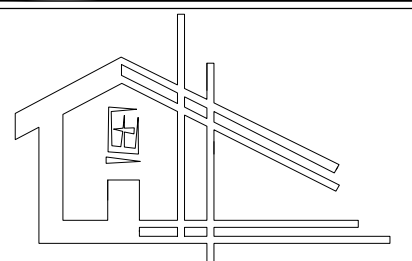
COUNTY:
HARNETT

AUGUST 3, 2021

DHBD-B3099-GL

ELEVATIONS

PAGE
A = 1 A



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ELEVATIONS

PAGE
A-1B

ATTIC VENTILATION	
REQUIRED	4101 SQ FT OF ATTIC / 300" INLET 4 OUTLET
PROVIDED	4101 SQ FT OF ATTIC / 300" INLET 4 OUTLET
ROOF	21 SQ FT PER X 152 LINEAR FT. 45% LINEAR FT. OF VENT. OF VENT. (TOTAL OF INLET)
OUTLET	11 SQ FT PER 120 LINEAR FT. 55% LINEAR FT. OF VENT. OF VENT. (TOTAL OF OUTLET)
	TOTAL SQ. FT. 2284 OF VENT.
<p>* PROVIDE AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATING AREA BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.</p> <p>* ALTERNATIVE METHOD: INSTALL VAPOR BARRIER HAVING A TRANSMISSION RATE NOT EXCEEDING 1 PERM (5.74 MG/54" H²) ON THE WARM SIDE OF THE CEILING. CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.</p>	

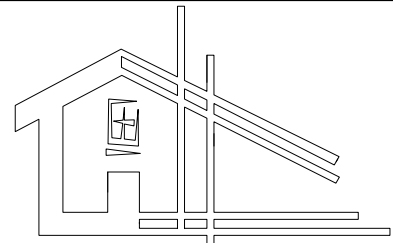
CRACK SPACE VENTILATION (NON ENCAPSULATION)	
2349	90 FT. / 50" 1366 90 FT. REQ.
1366	90 FT. / 41 PER VENT. 42 VENTS REQ.
NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQUIRED VENTILATION MAY BE REDUCED BY 50%.	
MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER OR EQUIVALENT SHALL BE INSTALLED TO NOMINALLY COVER ALL EXPOSED EARTH IN THE CRACK SPACE. JOINTS SHALL LAP A MINIMUM OF 12" REFER TO SECTION R408.3 OF THE 2018 VERSION OF THE IRC/NC RESIDENTIAL CODE FOR MORE INFORMATION.	



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



RIGHT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



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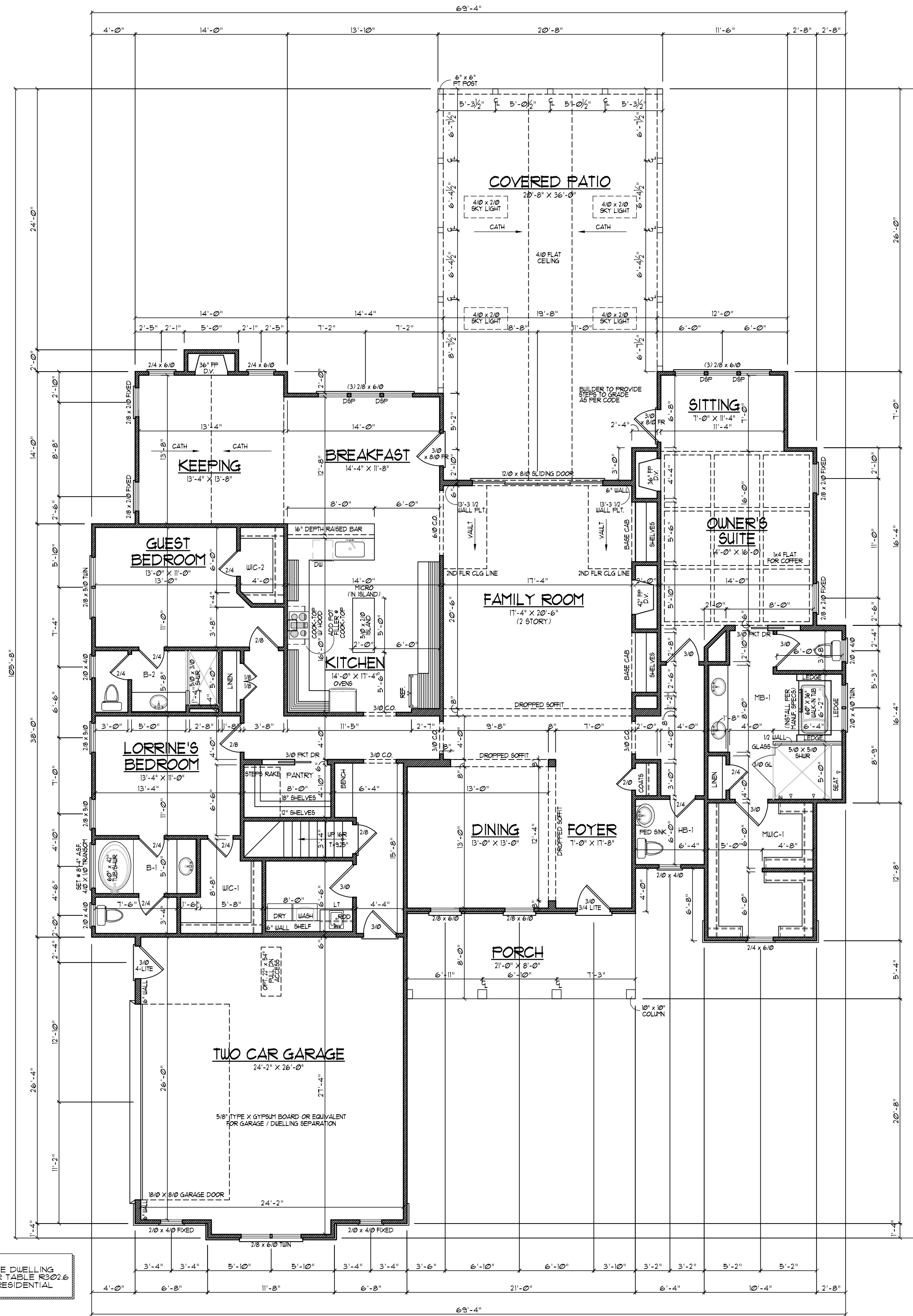
COUNTY:
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AUGUST 3, 2021

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FIRST FLOOR

PAGE
 A = 2



INSULATION AND FENESTRATION REQUIREMENTS

CLIMATE ZONE	3	4	5
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	NR
CEILING R-VALUE	38 OR 30c1	38 OR 30c1	38 OR 30c1
WOOD FRAME WALL R-VALUE	15 OR 13/4.5	15 OR 13/4.5	15 OR 13/4.5
MASS WALL R-VALUE	5/13 OR 5/10c1	5/13 OR 5/10c1	13/17 OR 13/12.5c1
FLOOR R-VALUE	19	19	30
BASEMENT WALL R-VALUE	5/13	10/15	10/15
SLAB R-VALUE 4 DEPTH	0	10	10
CRAWL SPACE WALL R-VALUE	5/13	10/15	10/15

PER TABLE N102.1.2 (R402.1.2)

GENERAL NOTES

WALLS:
 ALL WALLS ARE DRAWN 4" THICK UNLESS NOTED OTHERWISE.

ALL DIMENSIONS ARE TO FRAMING UNLESS NOTED OTHERWISE.

PLATE/CEILING HGT:
 REFER TO ELEVATION PAGE(S) FOR PLATE/CEILING HEIGHTS FOR EACH FLOOR.

WINDOW HGT:
 REFER TO ELEVATION PAGE(S) FOR WINDOW HEADER HEIGHTS FOR EACH FLOOR.

NOTE:
 WINDOW HEADER HEIGHTS, IF NOTED ON FLOOR PLANS TAKE PRECEDENCE OVER HEIGHTS NOTED ON ELEVATION PAGE(S).

SMOKE DETECTORS:
 LOCATION AND NUMBER OF DETECTORS SHALL CONFORM TO NEC 780.51(SMOKE DETECTOR).

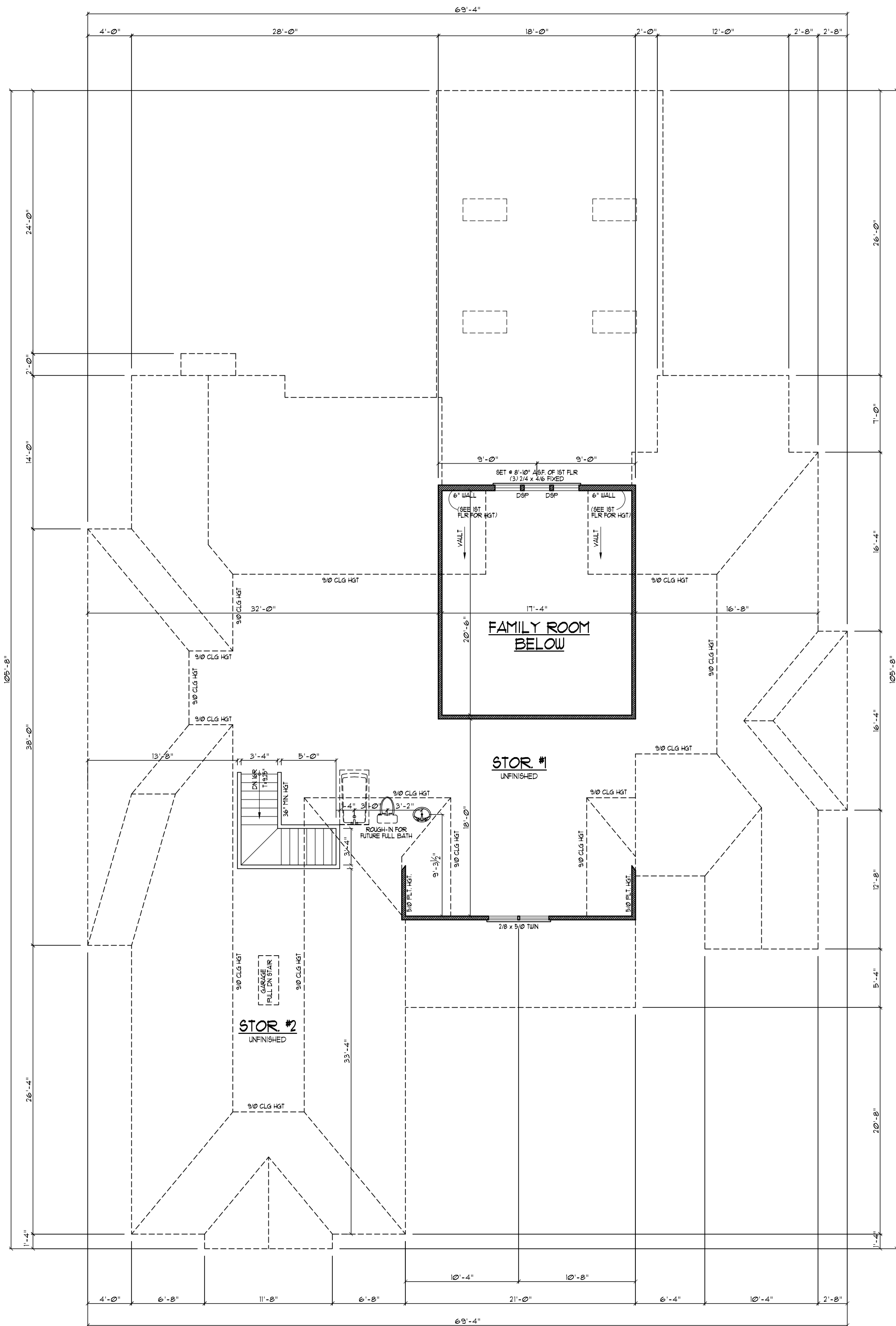
EGRESS:
 ALL SLEEPING ROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO SECTION 1025 OF THE IBC BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS, PROVIDES PRESSURE RATINGS 4 ROUGH OPENING DIMENSIONS AS MANUFACTURERS VARY.

ATTIC ACCESS:
 MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE. (IF WALK-UP ATTIC IS NOT INCLUDED.)

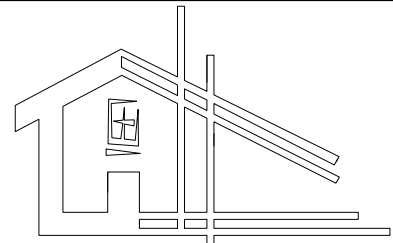
FLOOR AREA:

1ST FLOOR HTD.	2099#
TOTAL HTD. SQ. FT.	3099#
2ND FLR STOR. # SQ. FT.	1453#
2ND FLR STOR. # SQ. FT.	406#
GARAGE SQ. FT.	674#
COVERED PATIO SQ. FT.	128#
FRONT PORCH	168#

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



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



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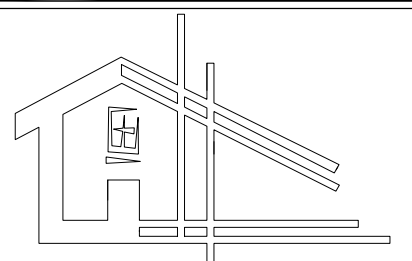
COUNTY:
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AUGUST 3, 2021

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SECOND FLOOR

PAGE
A = 3



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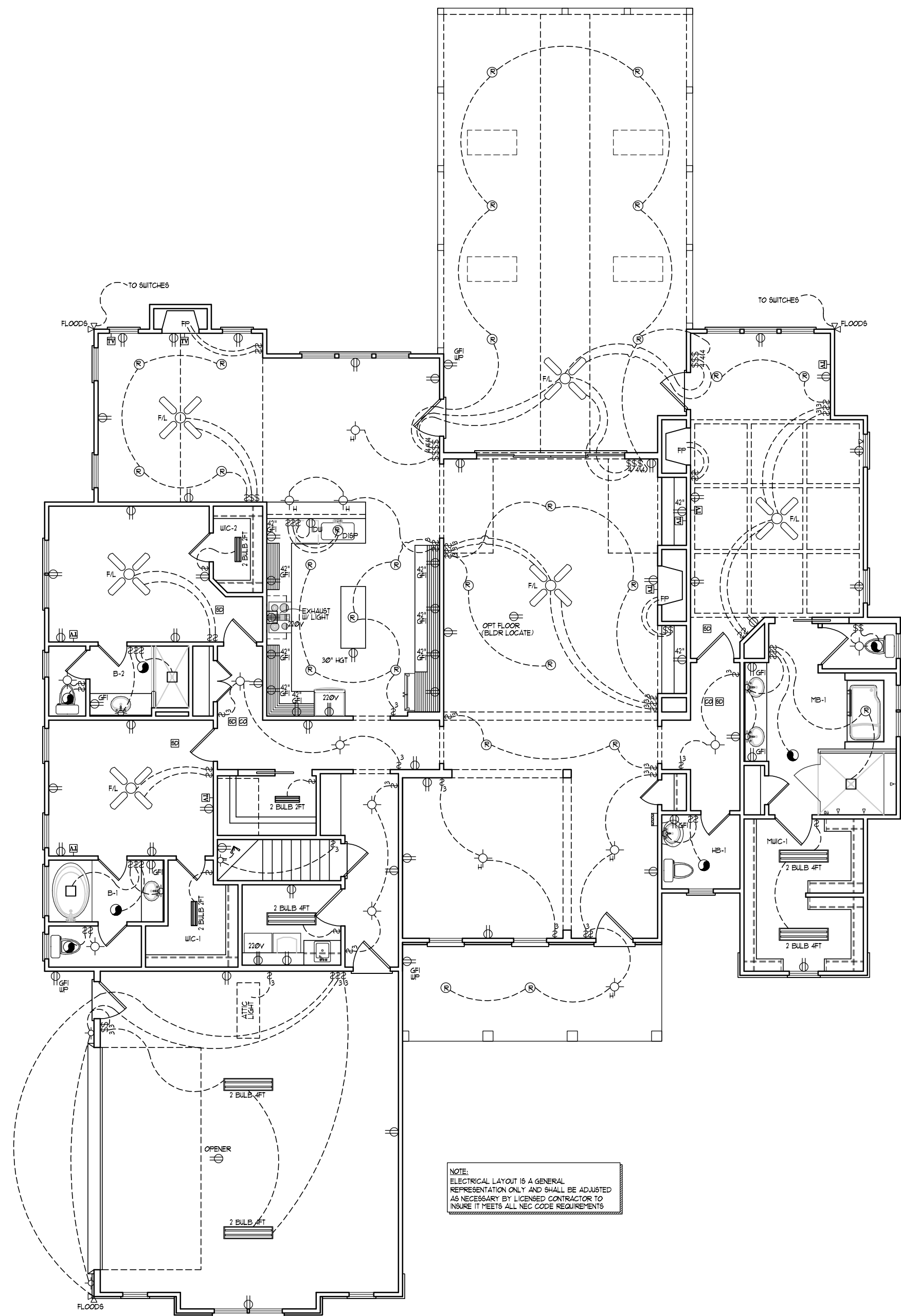
AUGUST 3, 2021

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1ST FLR ELECTRICAL

PAGE

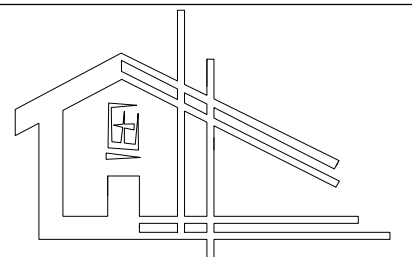
E - 1



NOTE:
ELECTRICAL LAYOUT IS A GENERAL
REPRESENTATION ONLY AND SHALL BE ADAPTED
AS NECESSARY BY LICENSED CONTRACTOR TO
INSURE IT MEETS ALL NEC CODE REQUIREMENTS

ELECTRICAL LEGEND			
⌘	4-WAY SWITCH	⊕	DUPLEX OUTLET
⌘	SINGLE POLE SWITCH	⊕ CH	COUNTER HEIGHT OUTLET RECEPTABLE
⌘	3-WAY SWITCH	⊕	DUPLEX OUTLET- SPLIT WIRED
⊙	SURFACE MOUNTED LIGHT	⊙	EXHAUST FAN
⊙	CABLE JACK	⊙	EYEBALL LIGHT
—	1 BULB FLUORESCENT	⊙	SPOT LIGHT
—	2 BULB FLUORESCENT	⊙	RECESSED REGULAR 1" MIN LIGHT
⊙	PHONE JACK	⊙	CEILING FAN (NO LIGHT)
⊕	GROUND FAULT INTERUPT RECEPTABLE	⊕	CARBON MONOXIDE DETECTOR
⊕ 220v	220 VOLT RECEPTABLE	⊕	WATER PROOF BATH LT
⊕	WALL MOUNTED LIGHT	⊕	KEYLESS LIGHT FIXTURE
⊕	SMOKE DETECTOR	⊕	HANGING LIGHT FIXTURE
⊕	DOOR CHIME	⊕	CEILING FAN W/ LIGHT FIXTURE
⊕	WALL MOUNT INCAND- ESCENT BAR LIGHT		

FIRST FLOOR ELECTRICAL



DREAM

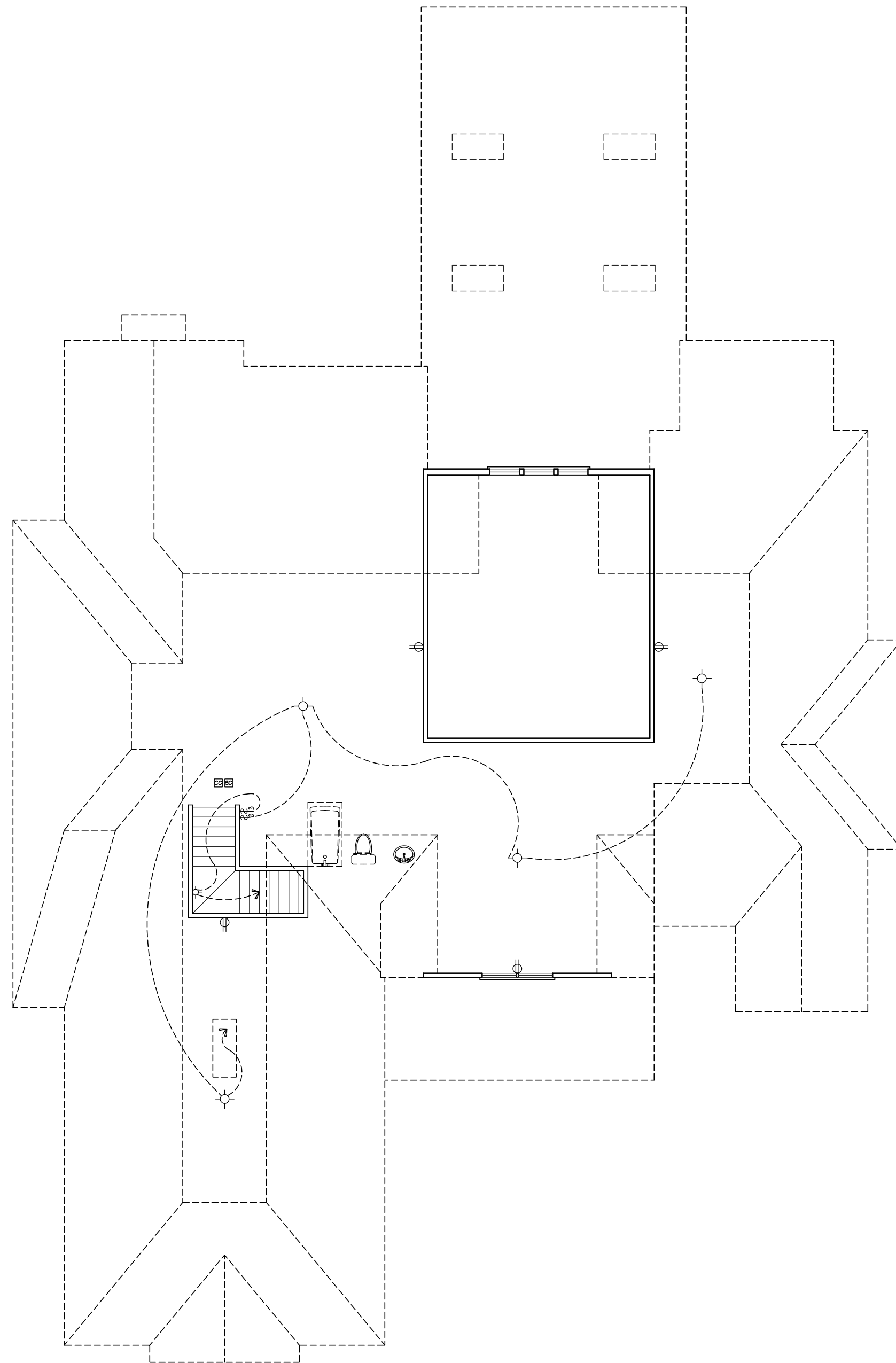
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ELECTRICAL LEGEND			
Ⓢ₄	4-WAY SWITCH	Ⓢ	DUPLEX OUTLET
Ⓢ	SINGLE POLE SWITCH	ⓈCH	COUNTER HEIGHT OUTLET RECEPTABLE
Ⓢ₃	3-WAY SWITCH	ⓈS	DUPLEX OUTLET - SPLIT WIRED
ⓈL	SURFACE MOUNTED LIGHT	ⓈF	EXHAUST FAN
ⓈJ	CABLE JACK	ⓈE	EYEBALL LIGHT
ⓈB1	1 BULB FLUORESCENT	ⓈP	SPOT LIGHT
ⓈB2	2 BULB FLUORESCENT	ⓈR	RECESSED REGULAR (MINI LIGHT)
ⓈP	PHONE JACK	ⓈCF	CEILING FAN (NO LIGHT)
ⓈGFI	GROUND FAULT INTERRUPT RECEPTABLE	ⓈCD	CARBON MONOXIDE DETECTOR
Ⓢ220V	220 VOLT RECEPTABLE	ⓈW	WATER PROOF BATH LT
ⓈW	WALL MOUNTED LIGHT	ⓈK	KEYLESS LIGHT FIXTURE
ⓈSD	SMOKE DETECTOR	ⓈH	HANGING LIGHT FIXTURE
ⓈDC	DOOR CHIME	ⓈFL	CEILING FAN W/ LIGHT FIXTURE
ⓈO	WALL MOUNT INCANDESCENT BAR LIGHT		

SECOND FLOOR ELECTRICAL

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PROJECT ADDRESS:
250 FIELDSTONE DRIVE
HOLLY SPRINGS, NC
27540

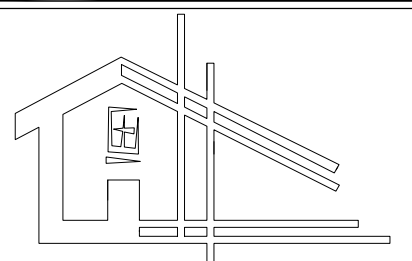
COUNTY:
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AUGUST 3, 2021

DHBD-B3099-GL

2ND FLR ELECTRICAL

PAGE
E - 2



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27540

COUNTY:
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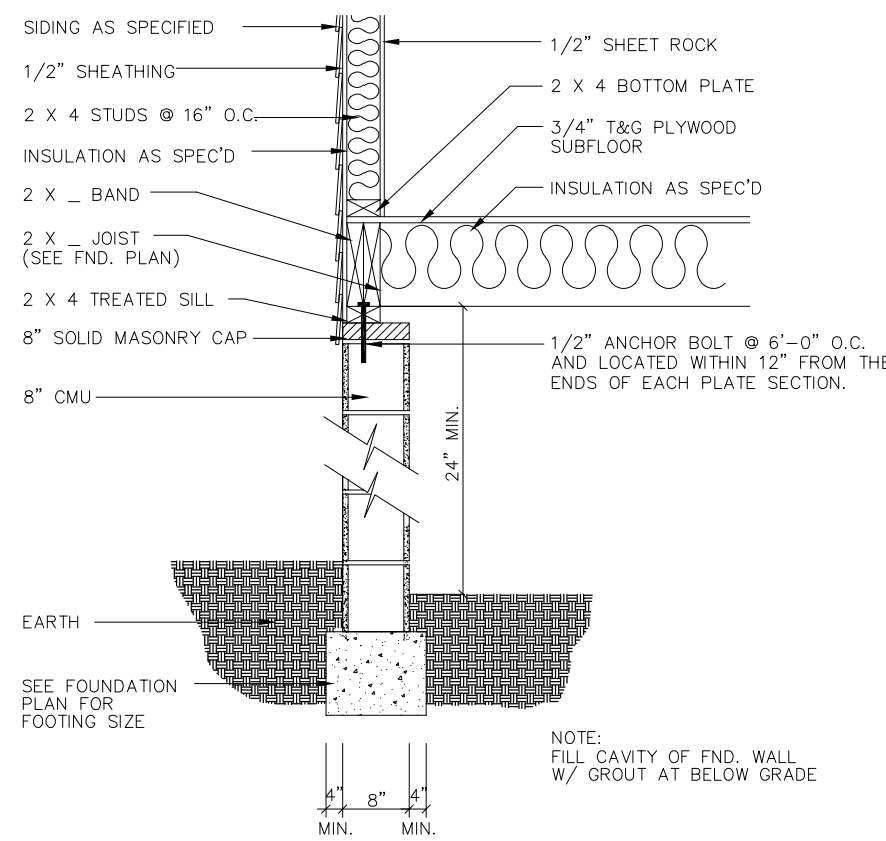
AUGUST 3, 2021

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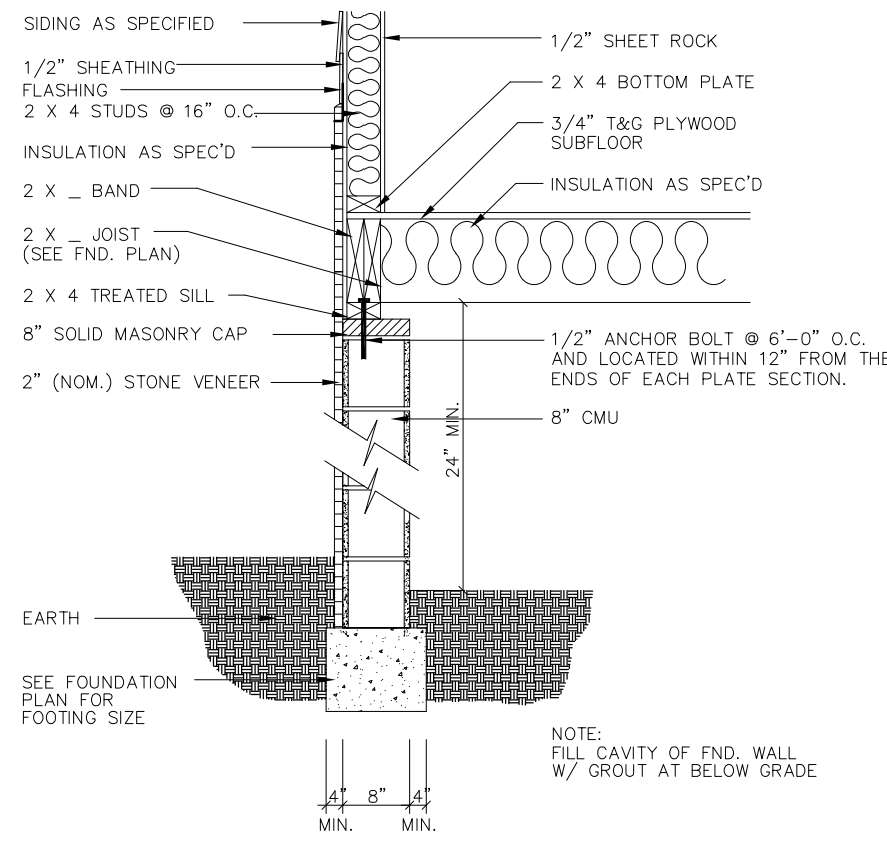
FOUNDATION DETAILS

PAGE

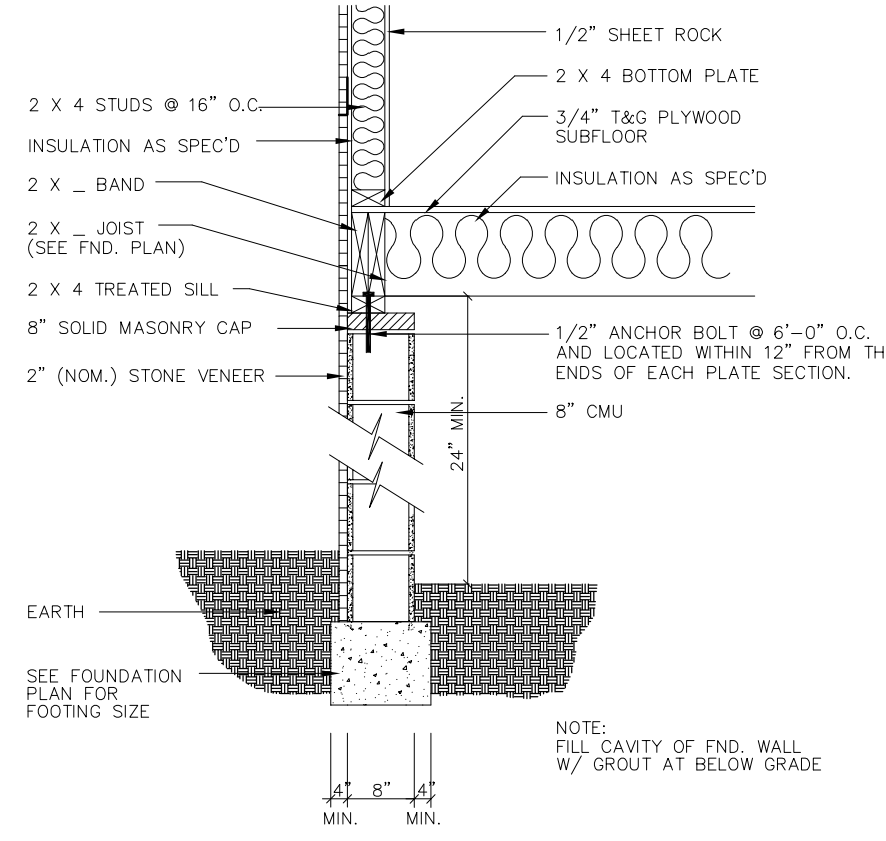
D-1



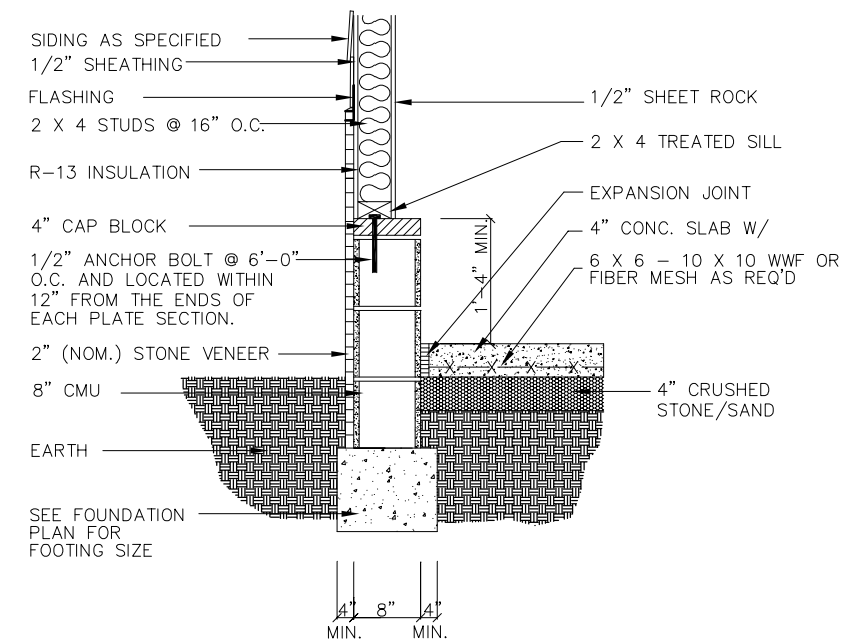
CRAWLSPACE (8" BLOCK PARGED)
FND. DETAIL (NTS)



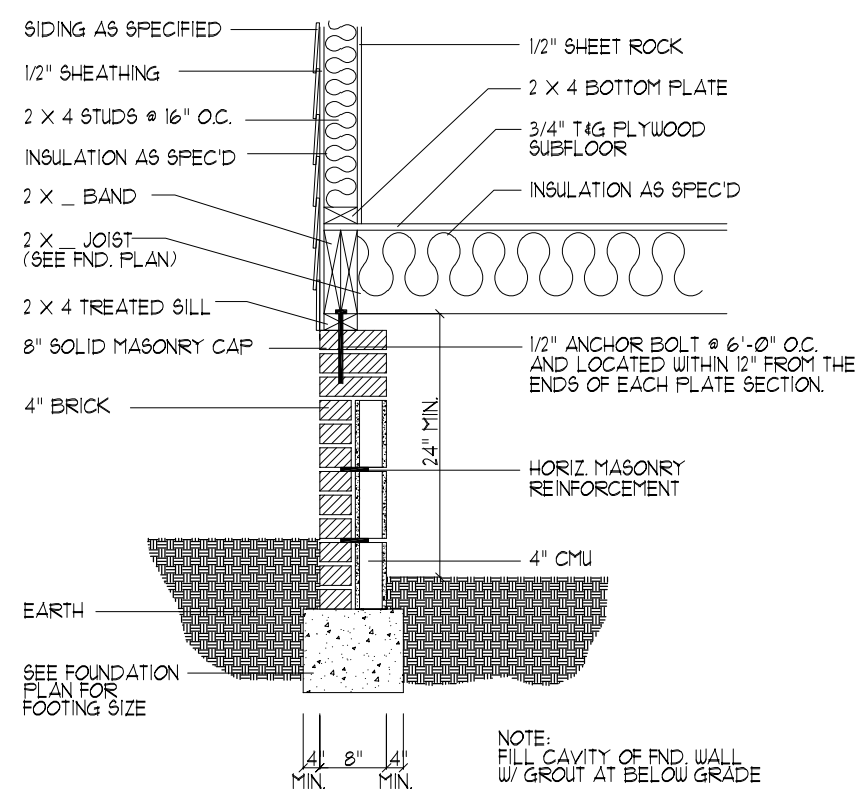
CRAWLSPACE (2" NOM. STONE TO SIDING TRANSITION)
FND. DETAIL (NTS)



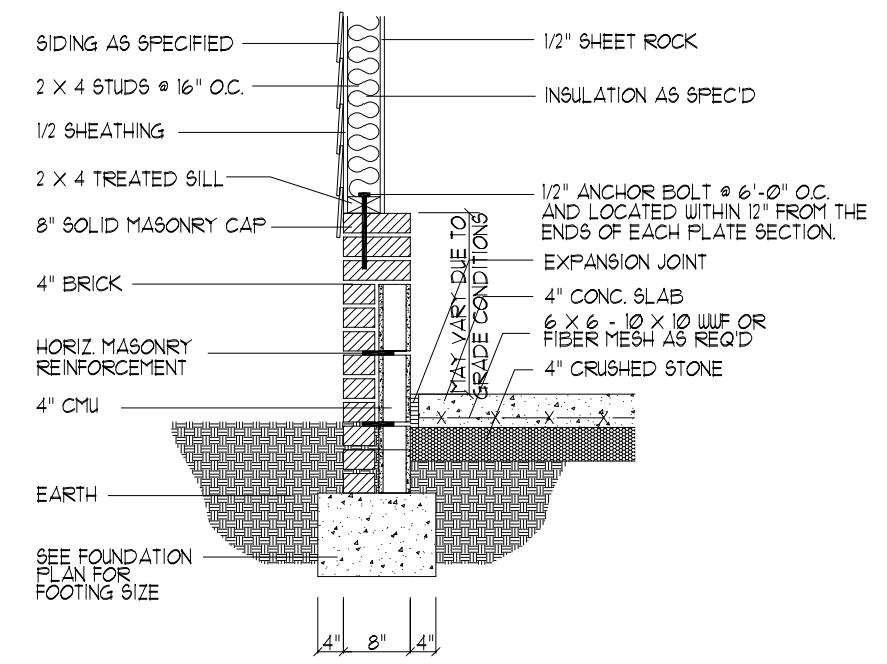
CRAWLSPACE (2" NOM. STONE)
FND. DETAIL (NTS)



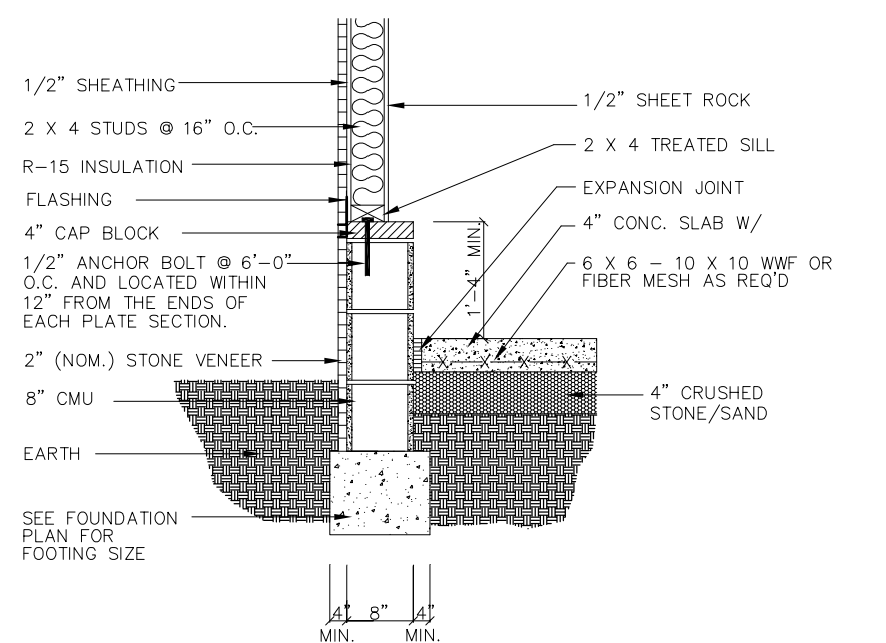
EXT. GARAGE WALL (2" NOM. STONE TO SIDING TRANSITION)
FND. DETAIL (WITH CRAWLSPACE) (NTS)



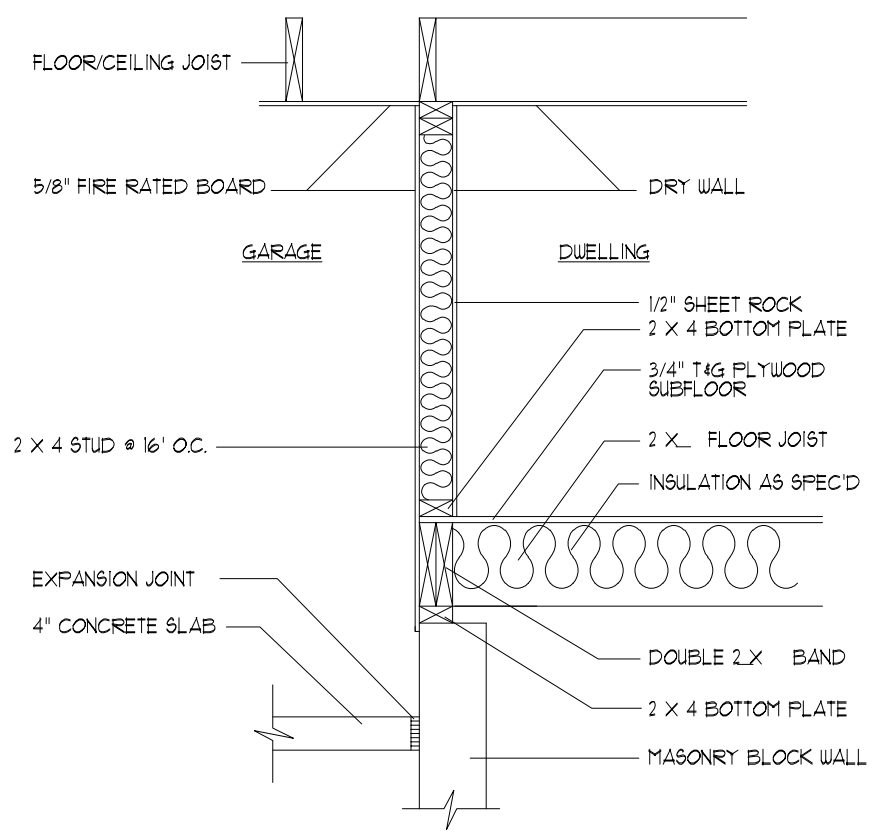
CRAWLSPACE (W/ BRICK)
FND. DETAIL (NTS)



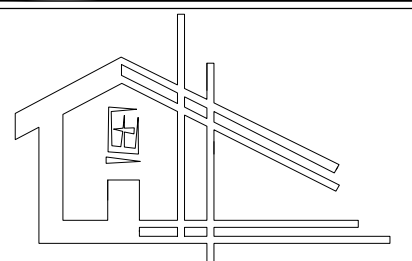
EXT. GARAGE WALL (W/ SIDING)
FND. DETAIL (NTS)



EXT. GARAGE WALL (2" NOM. STONE)
FND. DETAIL (WITH CRAWLSPACE) (NTS)



GARAGE (CRAWLSPACE)
INT. GARAGE WALL (NTS)



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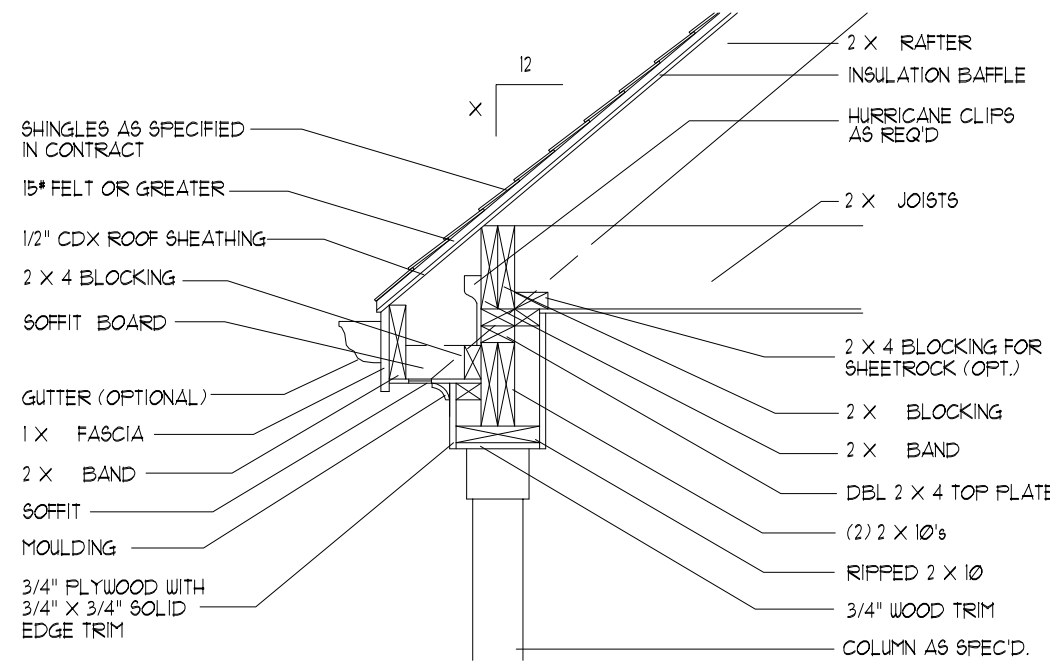
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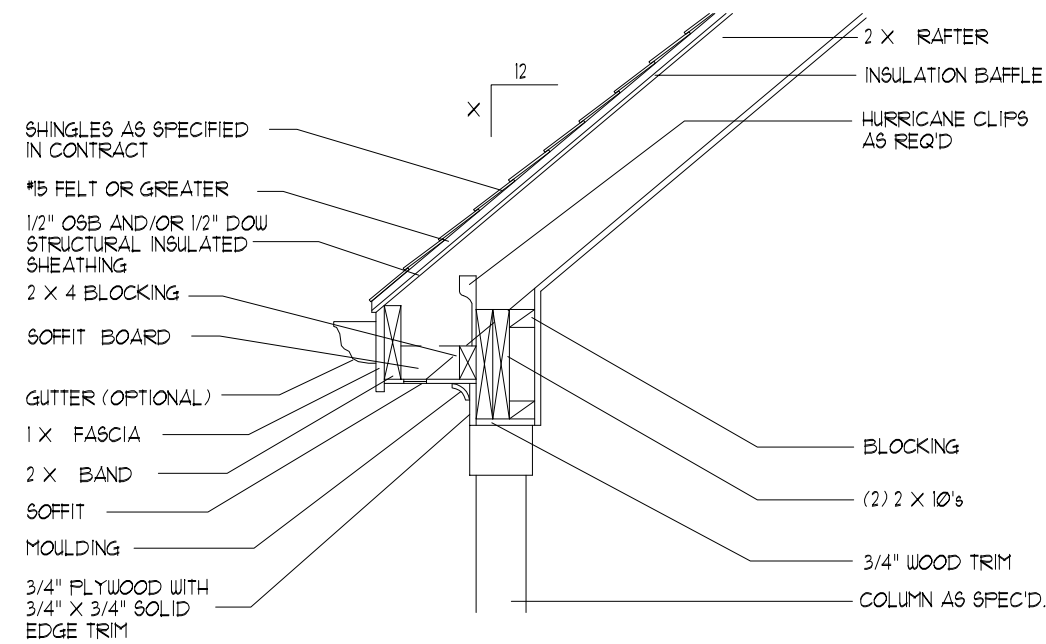
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ROOF FRAMING DETAILS

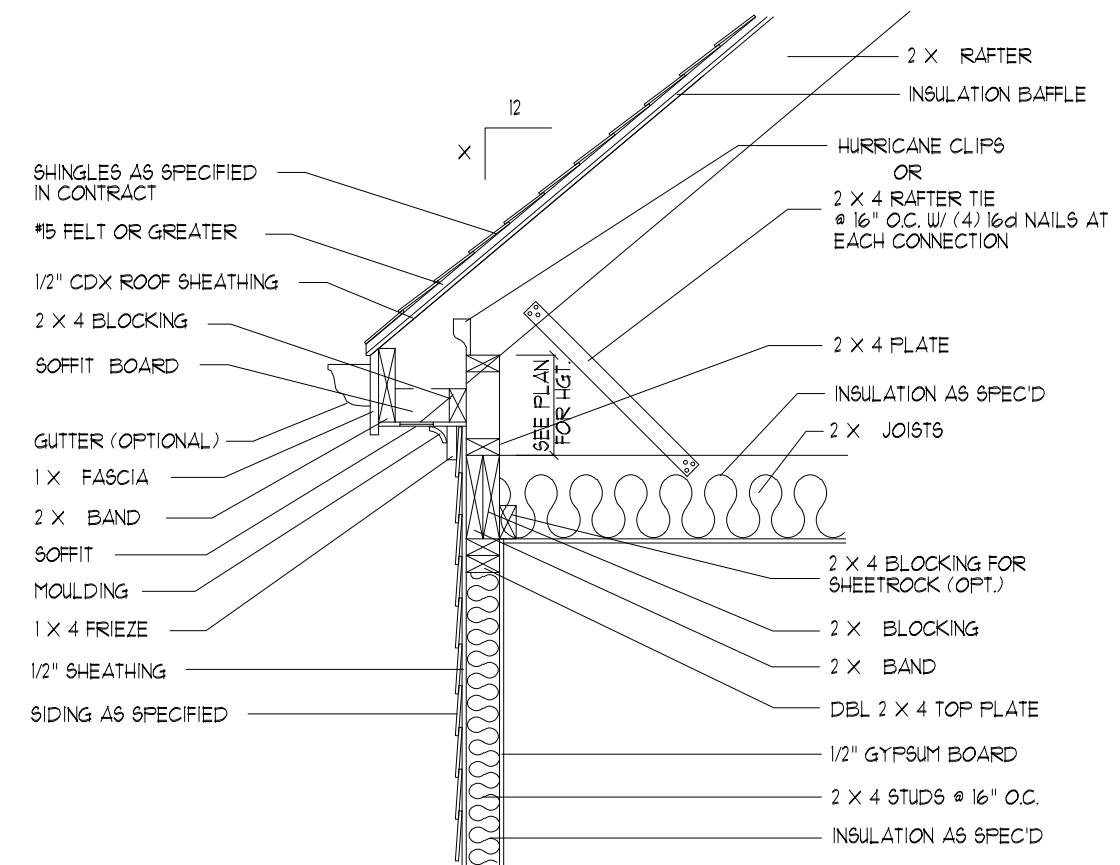
PAGE
D-2



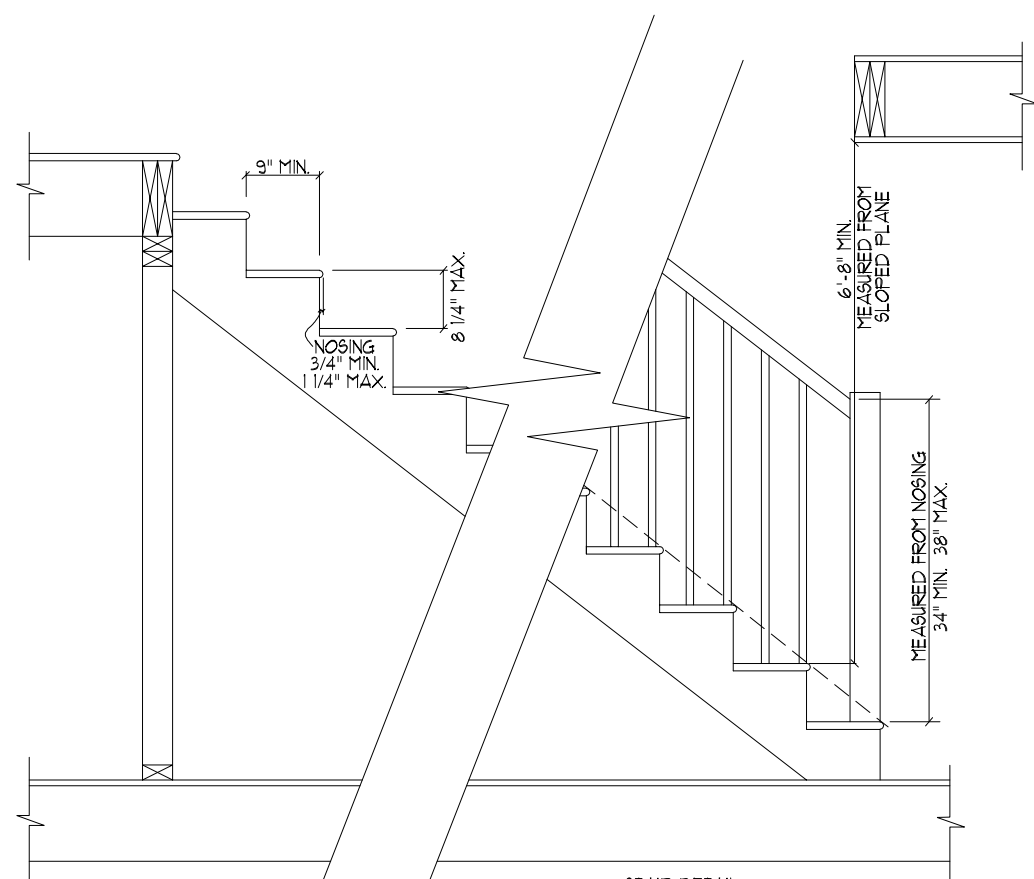
RAFTER DETAIL
TOP PLATE ON BEAM (NTS)
PORCH ATTACHMENT



RAFTER DETAIL
VAULTED CEILING (NTS)
PORCH ATTACHMENT



RAFTER DETAIL
KNEE-WALL ON (NTS)
CEILING JOIST



STAIR DETAIL (NTS)

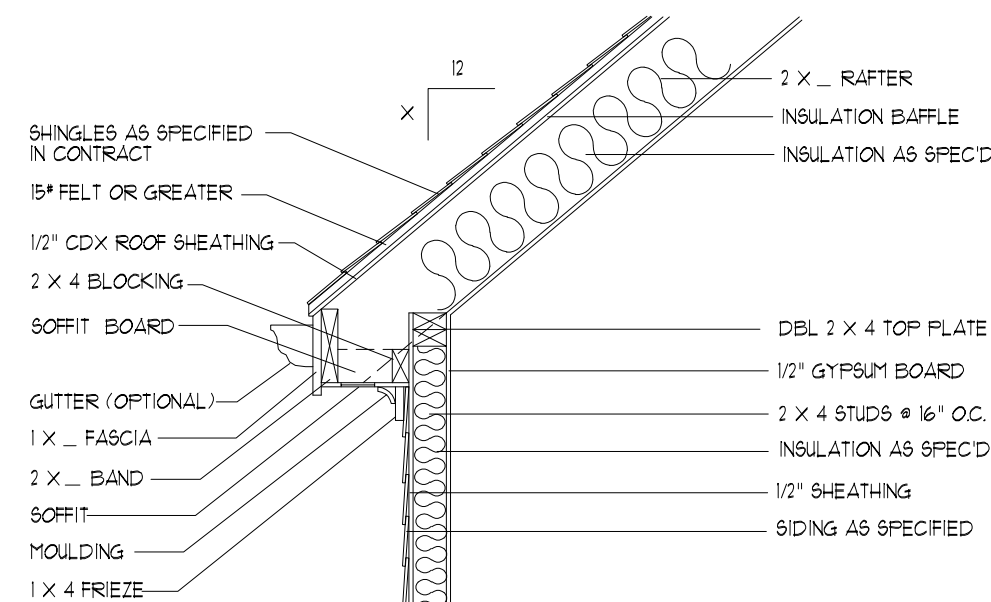
R312.13 OPENING LIMITATIONS (GUARDRAILS)

REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT THAT ALLOW PASSAGE OF A SPHERE 4" (102 MM) IN DIAMETER.

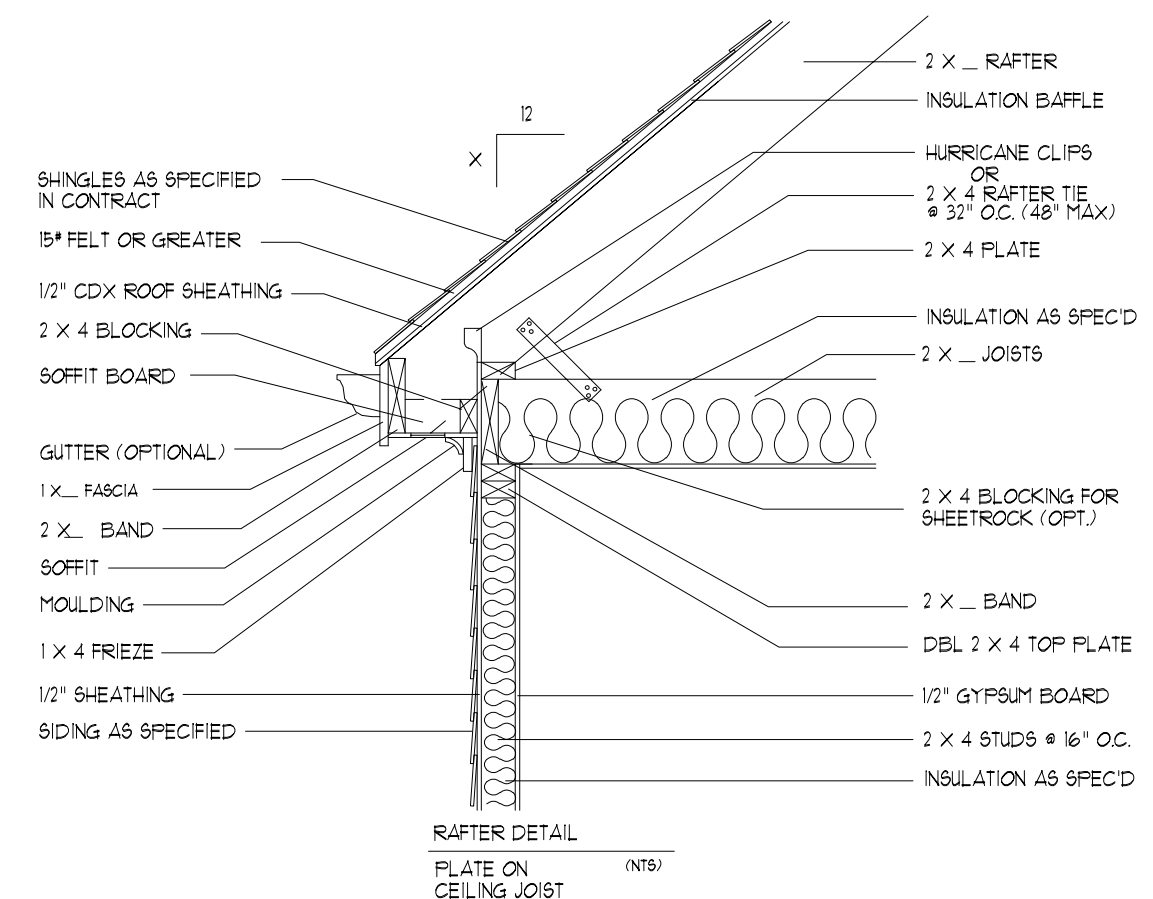
EXCEPTIONS:

1. THE TRIANGULAR OPENINGS AT THE OPEN SIDE OF STAIR FORMED BY THE RISER TREAD AND BOTTOM RAIL OF A GUARD SHALL NOT ALLOW PASSAGE OF A SPHERE 6" (153 MM) IN DIAMETER.
2. GUARDS ON THE OPEN SIDE OF STAIRS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4 3/8" (113 MM) IN DIAMETER.

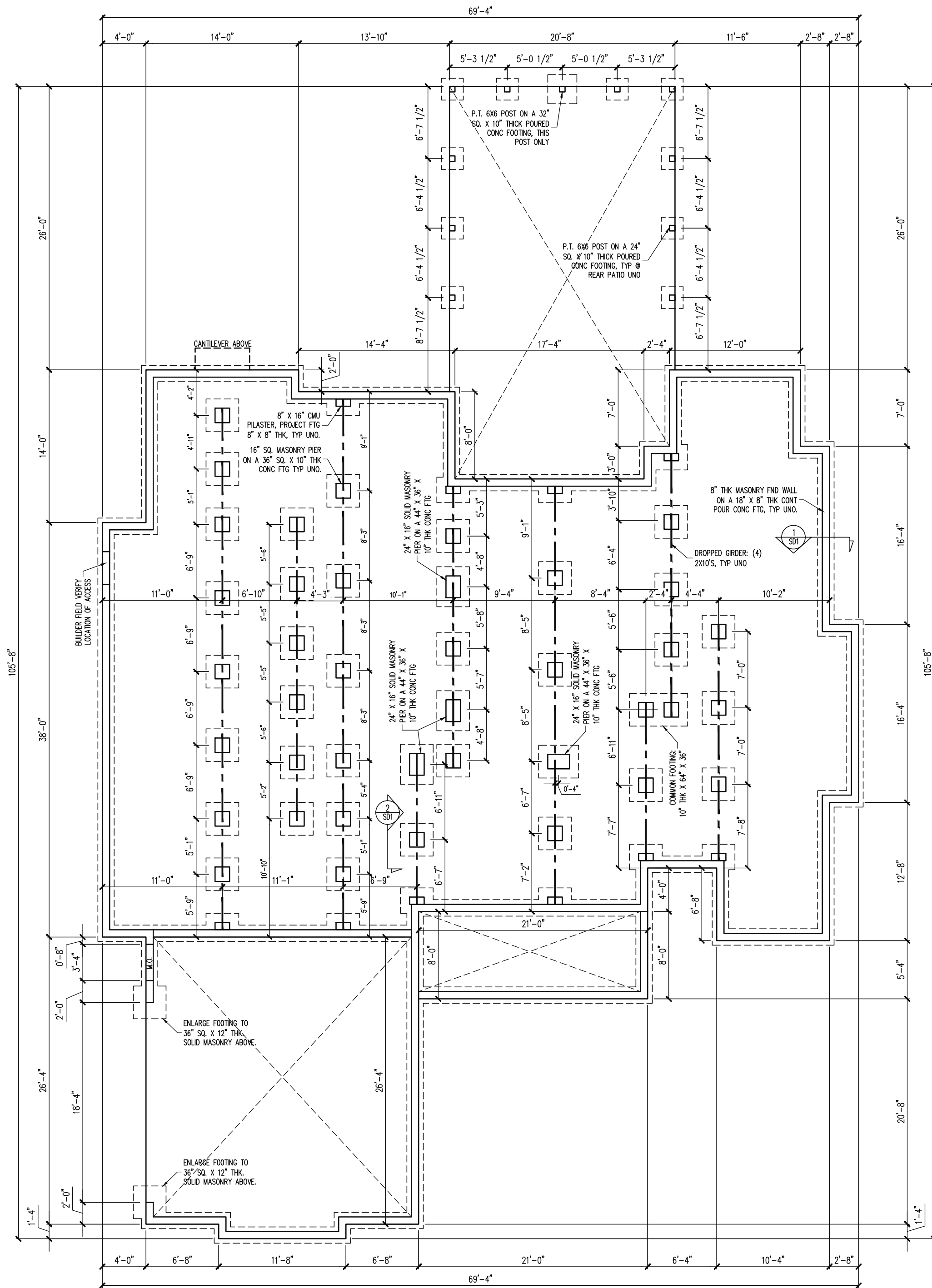
EACH TREAD AND RISER MUST BE UNIFORM. THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". THE GREATEST TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". THE TOP AND BOTTOM RISER OF INTERIOR STAIRS SHALL NOT EXCEED THE SMALLEST RISER BY MORE THAN 3/4". SEE FLOOR PLAN FOR ACTUAL SPECIFICATIONS.



RAFTER DETAIL
VAULTED CEILING (NTS)



RAFTER DETAIL
PLATE ON (NTS)
CEILING JOIST



PLAN DESIGNED UNDER
2018 NORTH CAROLINA
RESIDENTIAL CODE

NOTES:
-HEIGHT AND BACKFILL LIMITATIONS FOR
FOUNDATION WALLS ARE TO BE GOVERNED
BY THE NCSRC, LATEST EDITION.
REINFORCEMENT AND GROUTING SHALL BE
DETERMINED BY FINAL SITE CONDITIONS.

-BUILDER TO FIELD LOCATE CRAWLSPACE
ACCESS OPENING WITH MINIMUM DIMENSIONS
OF 18"x24". DO NOT LOCATE ACCESS OPENING
BELOW POINT LOADS FROM ABOVE WITHOUT
ENGINEER APPROVAL.

FOUNDATION PLAN
1/8" = 1'-0"

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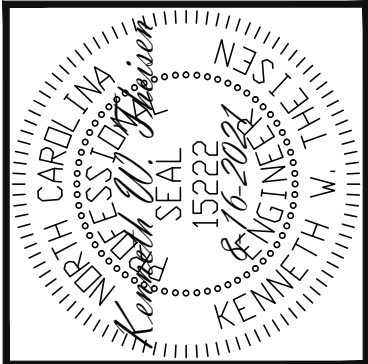
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STRUCTURAL ENGINEERS
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183 Wind Chime Ct, Ste 100
Raleigh, North Carolina 27615
Phone (919) 844-1661

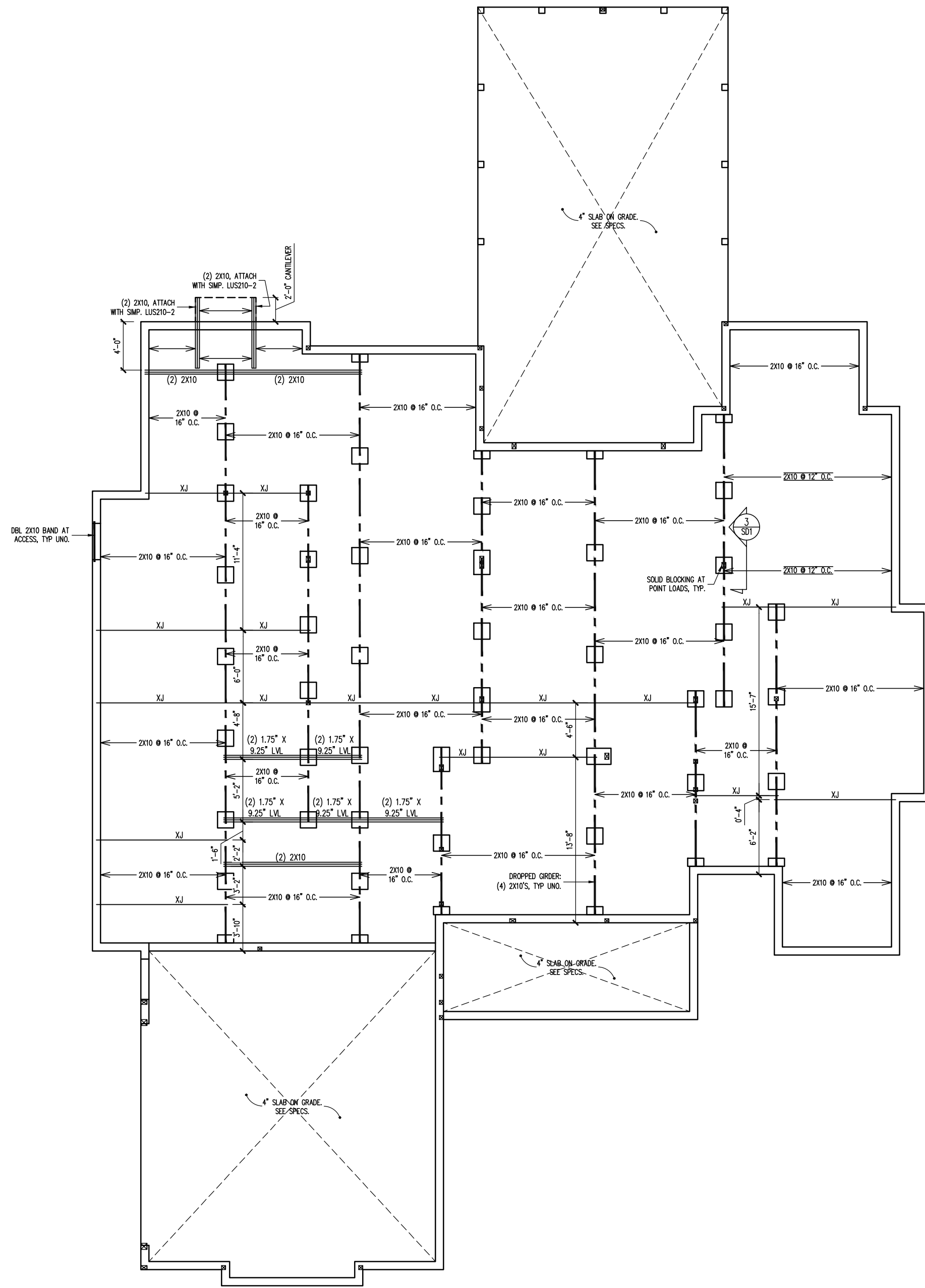
CHAMBERLAIN HOMES	
STRUCTURAL ADDENDUM	
SCOPE:	250 FIELDSTONE DR
LOC:	HUNGERFORD

ENG: KWT/MEB
DATE: 8-16-2021

PROJECT NO.
21-65-336

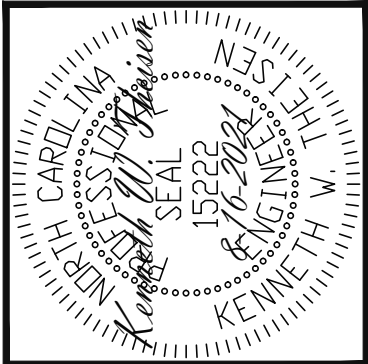
SHEET NO.
S1
1 of 7





CRAWL SPACE FRAMING PLAN
1/8" = 1'-0"

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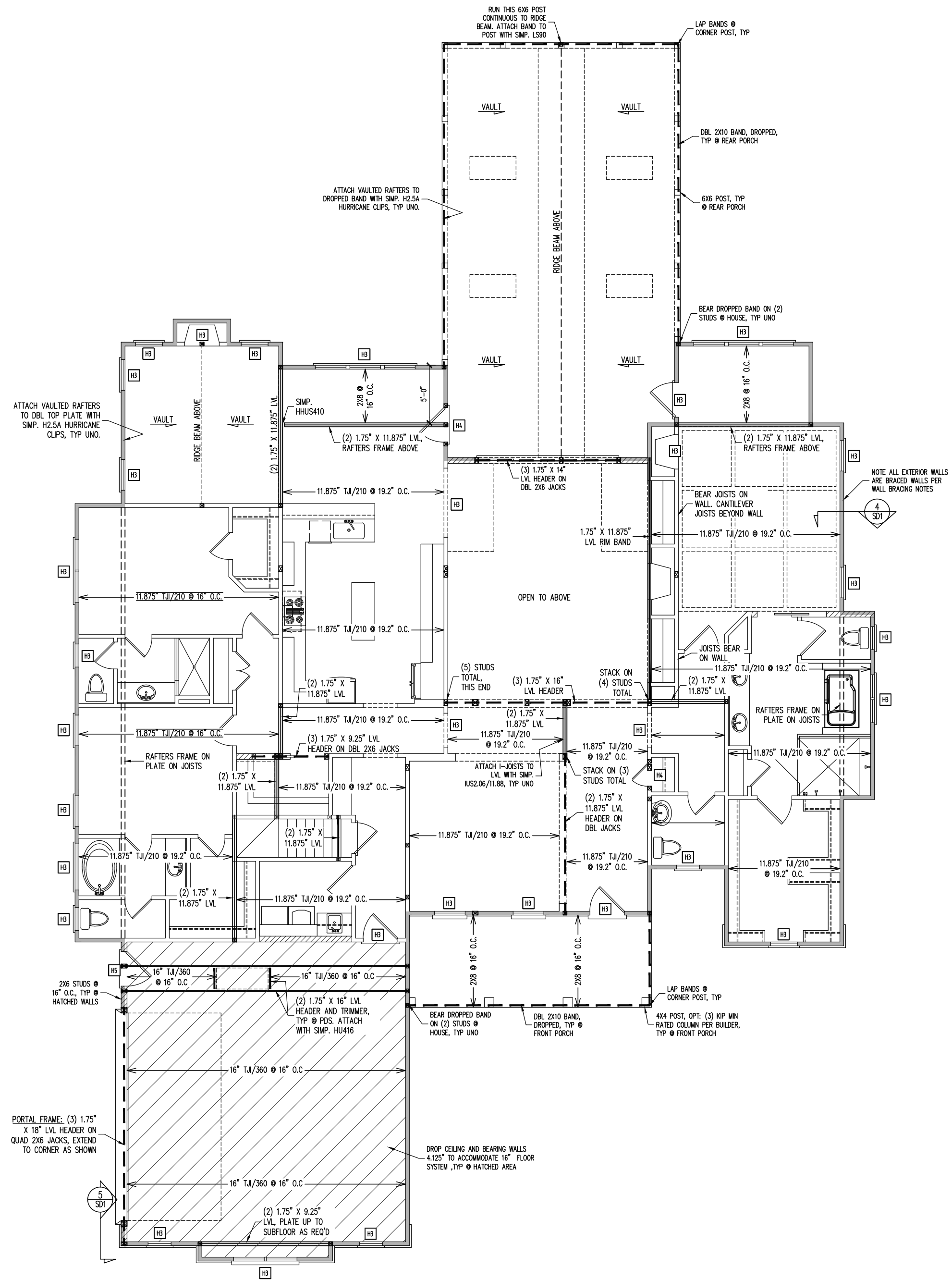
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 183 Wind Chime Ct, Ste 100
 Raleigh, North Carolina 27615
 Phone (919) 844-1661

CHAMBERLAIN HOMES	
STRUCTURAL ADDENDUM	
SCOPE:	250 FIELDSTONE DR
LOC:	HUNGERFORD

ENG: KWT/MEB
DATE: 8-16-2021

PROJECT NO.
 21-65-336

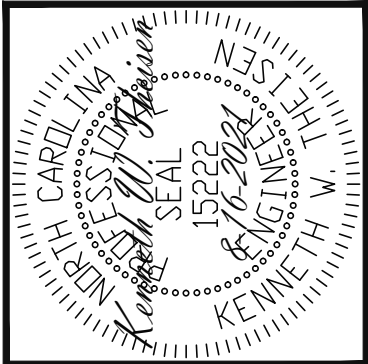
SHEET NO.
 S2



CONSTRUCTION SPECIFICATIONS	
INSTANT REFERENCES	
REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:	
PART 1.01:	CURRENT GOVERNING CODE
PART 14:	STUD SUPPORT FOR BEAMS
PART 17:	KING STUDS FOR EXTERIOR WALLS
SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS	
WALL BRACING	
SHADED WALLS	
ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.	
NOTES: PROVIDED CONTINUOUS SHEATHING = 3/32" MIN.	
REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.	
HEADER SCHEDULE	
H1	SINGLE 2X4 TURNED FLAT (A)
H2	(2) 2X4'S ON SINGLE JACKS (B)
H3	(2) 2X10'S ON SINGLE JACKS (C)
H4	(2) 1.75" X 9.25" LVL'S ON DBL JACKS
H5	(3) 2X10'S ON SINGLE JACKS
(A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 36" MAX.	
(B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 36" TO 74" MAX.	
(C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.	
NOTES: -HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.	

1ST FLOOR FRAMING PLAN
WALLS AND CEILING
1/8" = 1'-0"

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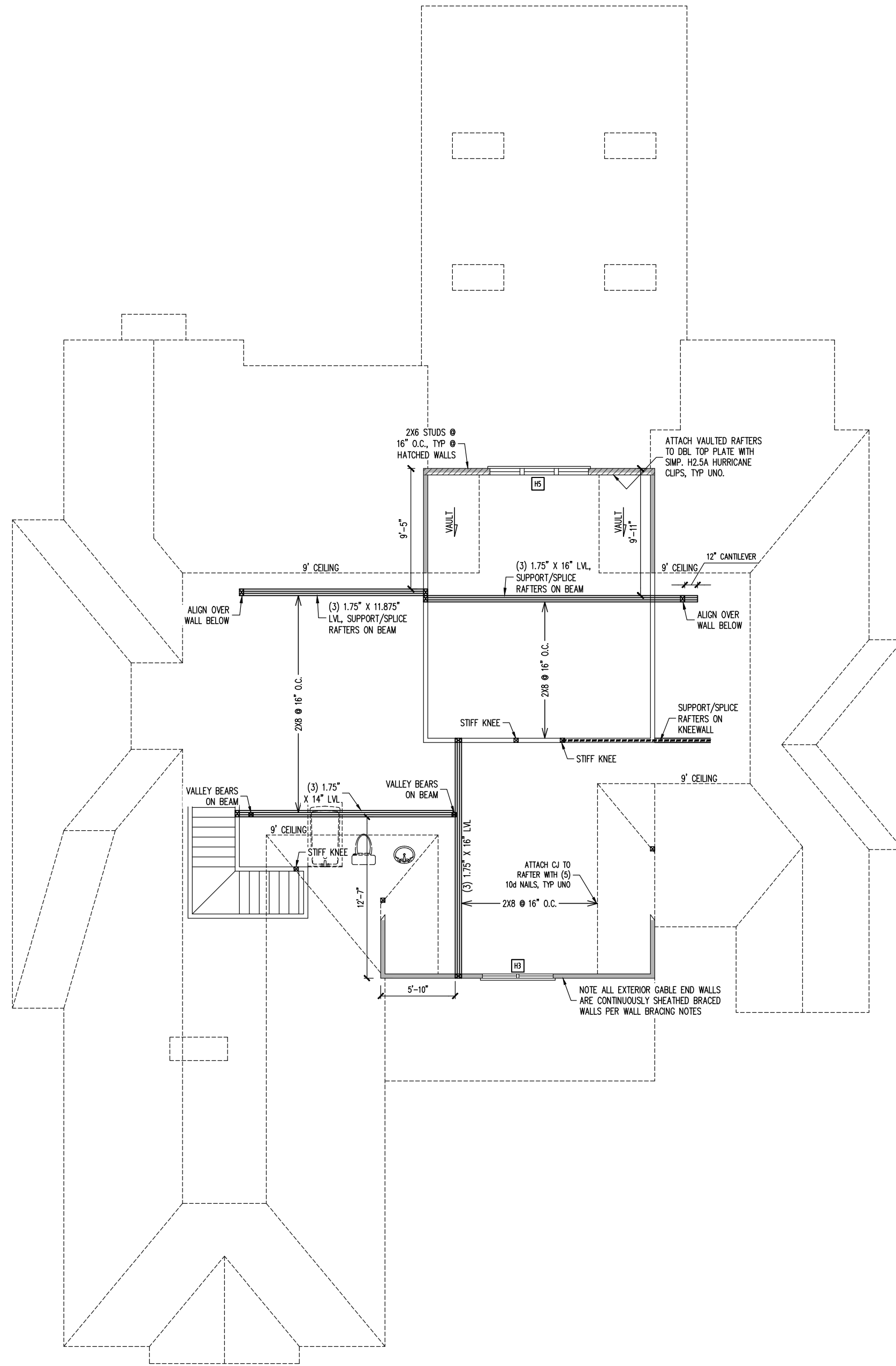
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CHAMBERLAIN HOMES	SCOPE:	250 FIELDSTONE DR
STRUCTURAL ADDENDUM	LOC:	HUNGERFORD

ENG: KWT/MEB
DATE: 8-16-2021

PROJECT NO.
21-65-336

SHEET NO.
S3
3 of 7



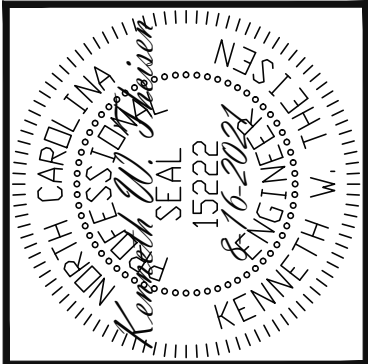
CONSTRUCTION SPECIFICATIONS
 INSTANT REFERENCES
 REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:
 PART 1.01: CURRENT GOVERNING CODE
 PART 14: STUD SUPPORT FOR BEAMS
 PART 17: KING STUDS FOR EXTERIOR WALLS
 SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR JOISTS ALLOWABLE SUBSTITUTIONS

WALL BRACING
 SHADED WALLS
 ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.
 NOTES:
 PROVIDED CONTINUOUS SHEATHING = 64" MIN.
 REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE
 H1 SINGLE 2X4 TURNED FLAT (A)
 H2 (2) 2X4'S ON SINGLE JACKS (B)
 H3 (2) 2X10'S ON SINGLE JACKS (C)
 H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
 H5 (3) 2X10'S ON SINGLE JACKS
 (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 36" MAX.
 (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 36" TO 74" MAX.
 (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.
 NOTES:
 HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

2ND FLOOR FRAMING PLAN
WALLS AND CEILING
 1/8" = 1'-0"

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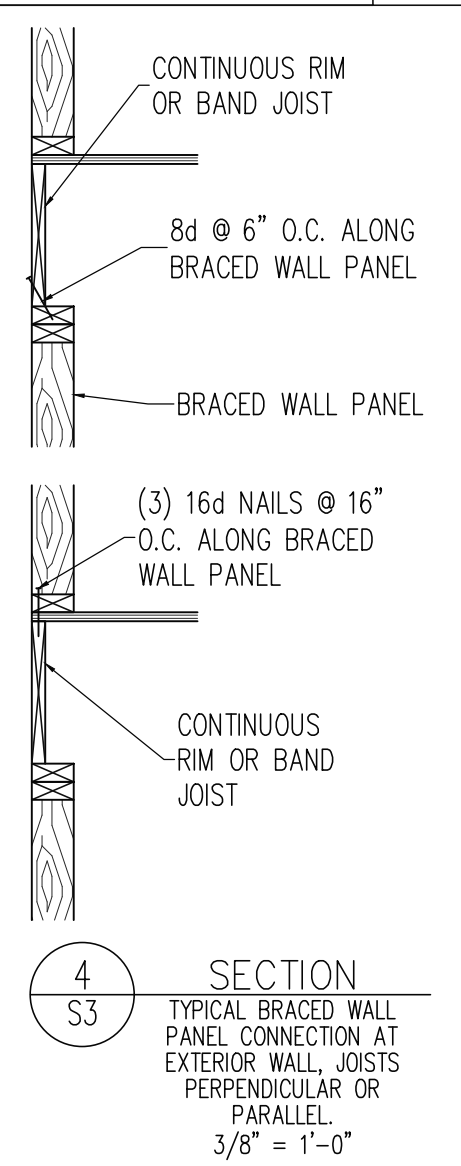
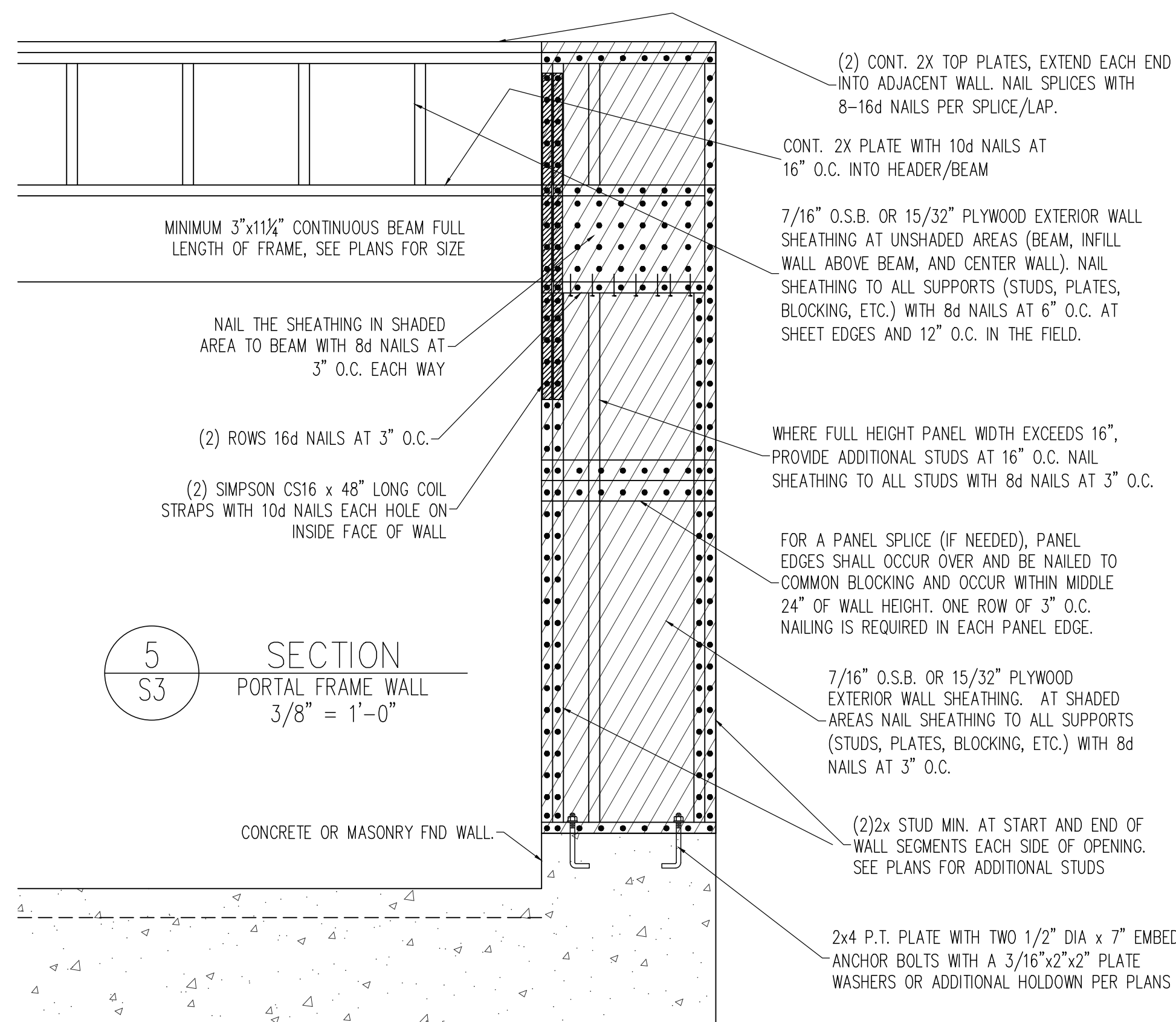
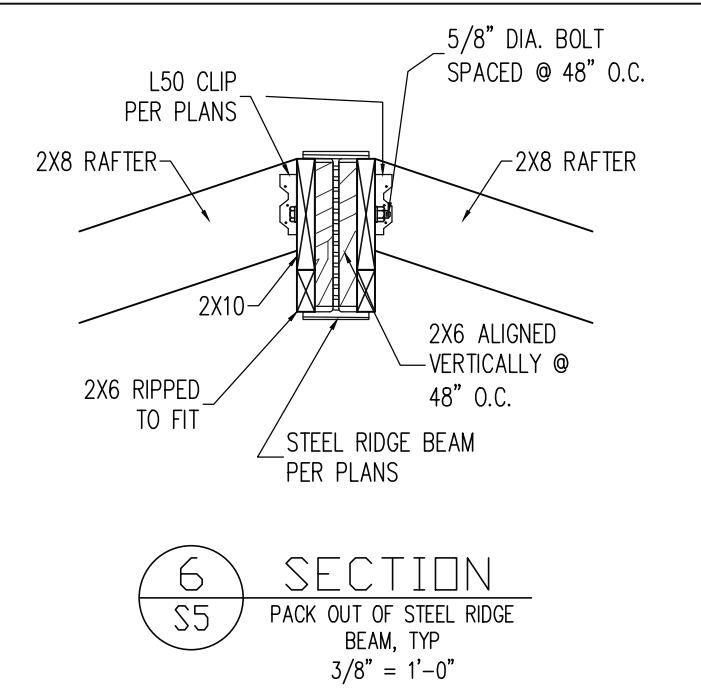
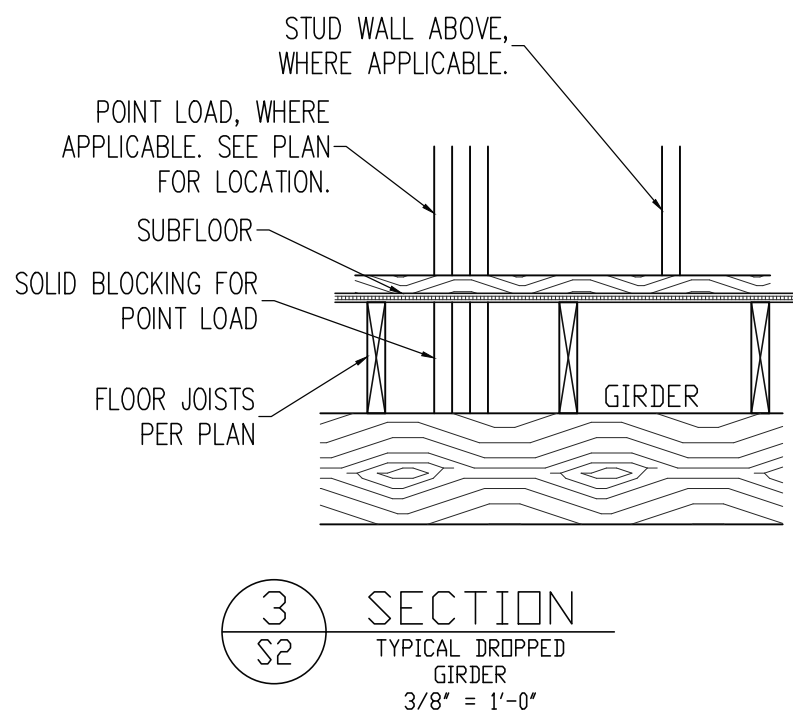
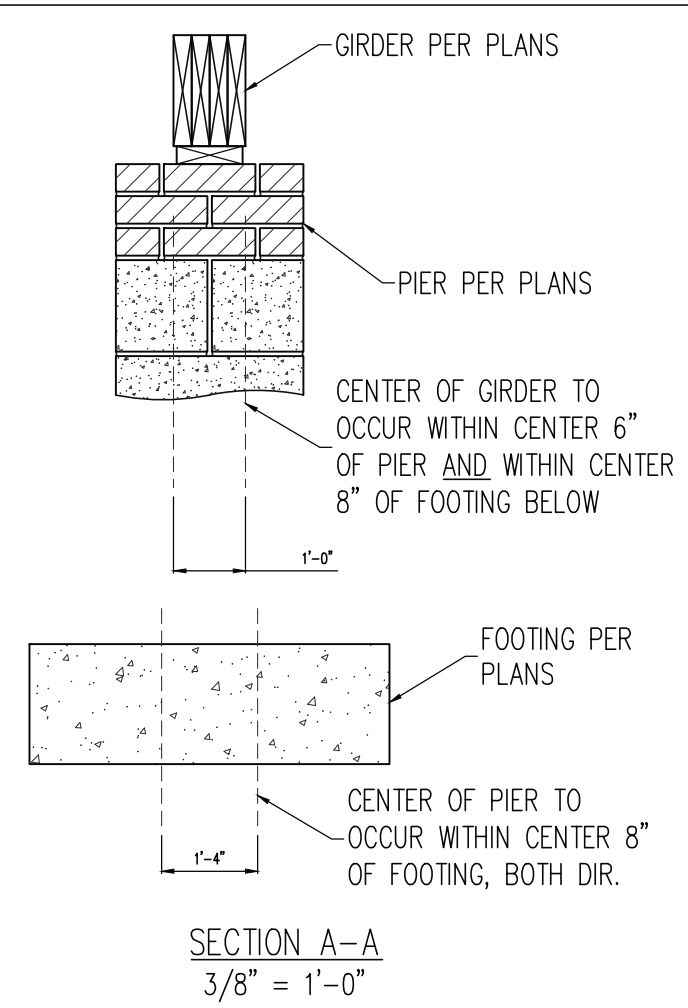
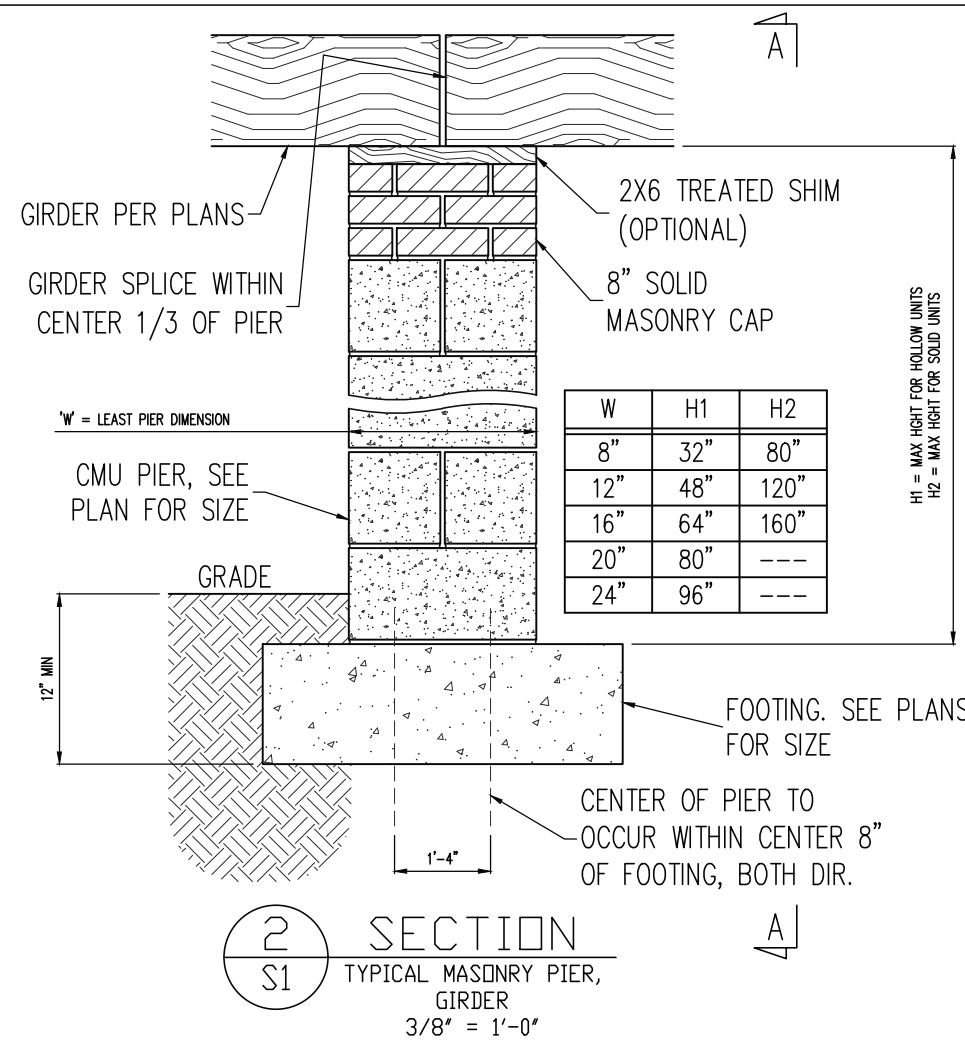
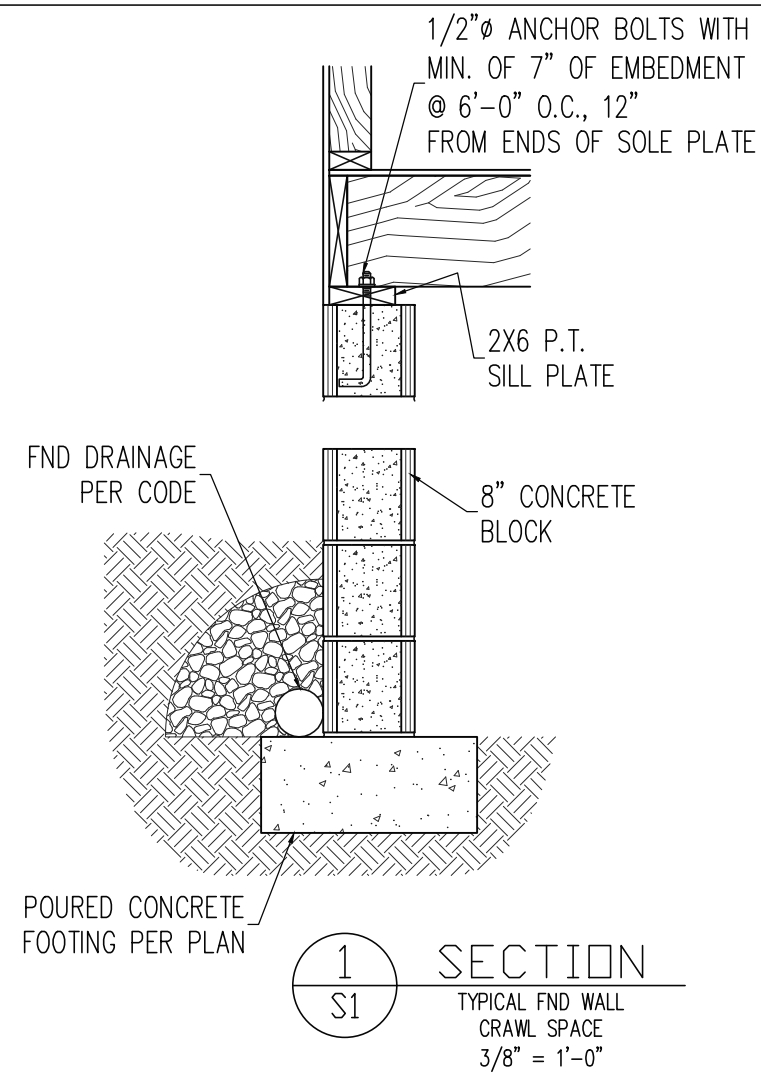
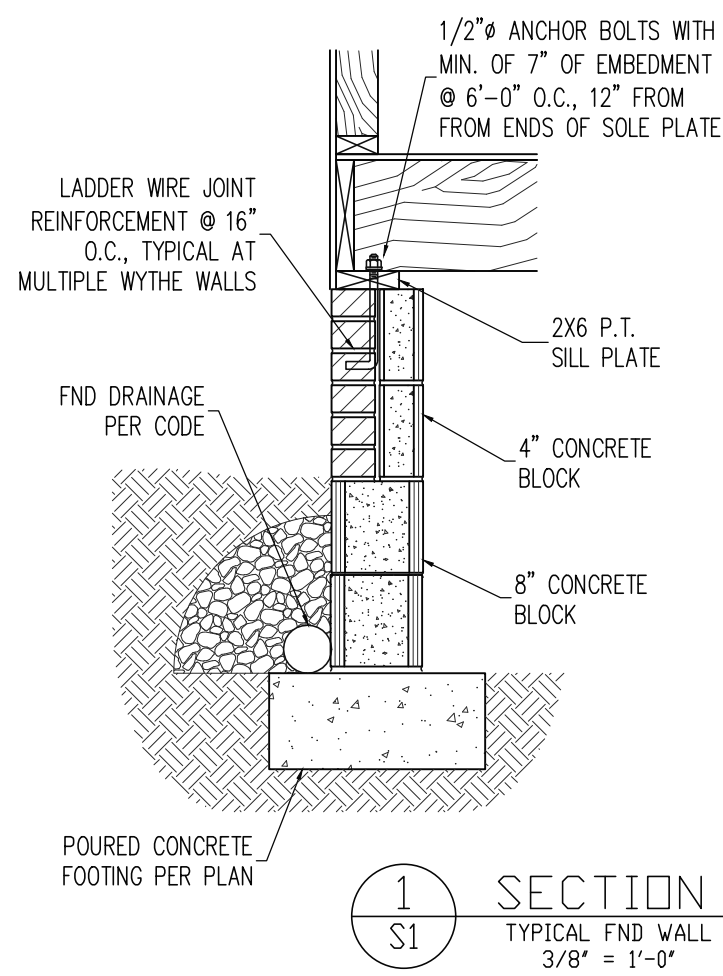
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CHAMBERLAIN HOMES	
SCOPE:	STRUCTURAL ADDENDUM
LOC:	250 FIELDSTONE DR HUNGERFORD

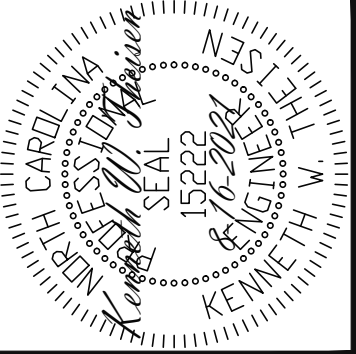
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PROJECT NO.
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SHEET NO.
 S4
 4 of 7



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CHAMBERLAIN HOMES
 STRUCTURAL ADDENDUM
 SCOPE: 250 FIELDSTONE DR
 LOC: HUNGERFORD

ENG: KWT/MEB
 DATE: 8-16-2021

PROJECT NO.
 21-65-336

SHEET NO.
 SD1

CONSTRUCTION SPECIFICATIONS

PART 1: GENERAL

- 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
- 1.05 METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

PART 2: DESIGN LOADS

2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:

USE	LIVE LOAD (PSF)	DEAD LOAD (PSF)
BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES	40	10
GARAGES (PASSENGER CARS ONLY)	50	--
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)	10	10
ATTICS (WITH STORAGE)	20	10
ROOF	20	10 (15 FOR VAULTS)

NOTES: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.
- BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS

- 2.02 INTERIOR WALLS: 5 PSF LATERAL.
- 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH.
- 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).

PART 3: STRUCTURAL STEEL

- 3.01 WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE
- 3.02 SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE.
- 3.03 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE
- 3.04 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE
- 3.05 STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.

PART 4: WELDING

- 4.01 WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER

PART 5: CONCRETE AND SLABS ON GRADE

- 5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 6% AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONCRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO.
- 5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.

- 5.03 SLABS ON GRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS

PART 6: REBAR AND WIRE REINFORCEMENT

- 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
- 6.02 LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO
- 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.

PART 7: MASONRY

- 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,

f'm = 1,500 PSI MIN

- 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW
- 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.
- 7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530
- 7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

PART 8: BOLTS AND LAG SCREWS

- 8.01 BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS
- 8.02 LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NDS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR SCREW HEAD
- 8.03 ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

PART 9: DRIVEN FASTENERS

- 9.01 NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667- 05. NAILS ARE TO BE COMMON WIRE OR BOX

PART 10: DIMENSIONAL LUMBER

- 10.01 SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC.

PART 11: ENGINEERED LUMBER

- 11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:
E = 1.9 X 10⁶ PSI, F_b = 2600 PSI, F_v = 285 PSI, F_c = 750 PSI
LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:
E = 1.3 X 10⁶ PSI, F_b = 1700 PSI, F_v = 400 PSI, F_c = 680 PSI

- 11.02 LVL OR PSL MEMBERS MAY BE RIPPED FROM DEEPER MEMBERS TO MATCH THE MEMBER DEPTH SPECIFIED IN THE PLANS

PART 12: PRESSURE TREATED LUMBER

- 12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A)

PART 13: STEEL FLITCH PLATE BEAMS

- 13.01 FLITCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PIECES TOGETHER USING 1/2" Ø BOLTS SPACED AT 24" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 6" ± 2" FROM EACH END OF THE BEAM.

PART 14: STUD SUPPORTS FOR BEAMS

- 14.01 STEEL, ENGINEERED LUMBER, AND FLITCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

- 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER OF STUDS SUCH THAT THE STUD COLUMN IS AT LEAST AS WIDE AS THE TRUE WIDTH OF THE BEAM BEING SUPPORTED, WHICHEVER IS GREATER, TYP UNO. FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM
- 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.

- 14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

- 1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM
- 2-BEAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAR A MINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN TYP UNO.

- 14.03 EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE TO THE BEAM SHALL BE SUPPORTED BY ONE ADDITIONAL STUD.

- 14.04 STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITHIN THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO ROWS OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHALL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COLUMN WITHIN THE CAVITY FORMED BY THE FLOOR JOISTS.

PART 15: NAILING OF MULTI PLY WOOD BEAMS

- 15.01 SOLID SAWN LUMBER JOISTS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM NAILED TOGETHER WITH THREE ROWS OF 10d NAILS @ 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS @ 16" O.C. FOR 2X8, ONE ROW OF 10d NAILS @ 16" O.C. FOR 2X6 OR SMALLER. STAGGER ROWS 5" MIN.

- 15.02 LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBERS IN THE BEAM FASTENED TOGETHER PER MANUFACTURERS RECOMMENDATIONS, TYP UNO

PART 16: WALL FRAMING AND BRACING

- 16.01 STUD WALLS SHALL CONSIST OF 2X4 STUDS SPACED AT 16" O.C. UNO. STUDS SHALL BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILING OR ROOF. NO INTERMEDIATE BANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A STUD WALL EXCEPT AS REQUIRED FOR DOOR OR WINDOW OPENINGS. THE KING STUDS FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO.
MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2X4 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO:
2X4 @ 16" O.C.: 11'-1 1/2" 2X6 @ 16" O.C.: 17'-0"
2X4 @ 12" O.C.: 12'-1 1/2" 2X6 @ 12" O.C.: 18'-8"
DBL 2X4 @ 16" O.C.: 13'-4" DBL 2X6 @ 16" O.C.: 21'-0"

- 16.02 FOR WALL BRACING THE FOLLOWING SHALL APPLY:
-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNO.
-WALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION 602.10 OF THE 2018 NCR. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCR. HAS BEEN MET AND EXCEEDED.
-BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH TABLE 602.3(1) TO PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
-MAY SUBSTITUTE WSP FOR CB
-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED ABOVE AND BELOW ALL BRACED WALLS. NAIL BLOCKING ABOVE WALL TO TOP PLATE WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACED WALL LINES ONLY REQUIRED AT SHADED WALLS, UNO.

PART 17: KING STUDS

- 17.01 KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:

MAX OPENING WIDTH	NUMBER OF KING STUDS				
	5'-0"	9'-0"	13'-0"	17'-0"	21'-0"
2X4	1	2	3	4	5
2X6	1	1	2	2	2
2X8	1	1	1	1	2

PART 18: SUBSTITUTIONS

- 18.01 MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVIATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PART 19: OWNERSHIP OF STRUCTURAL DESIGN

- 19.01 THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA

ALLOWABLE I-JOIST SUBSTITUTION

NOTE: MAINTAIN JOIST DEPTH, DIRECTION, AND SPACING SPECIFIED ON PLANS.

MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BLUELINX	11.875"	BLI 40	IUS2.56/11.88	ITS2.56/11.88
BOISE CASCADE	11.875"	BCI 5000s	IUS2.06/11.88	ITS2.06/11.88
BOISE CASCADE	11.875"	BCI 6000s	IUS2.37/11.88	ITS2.37/11.88
INTERNATIONAL BEAMS	11.875"	IB 400	IUS2.56/11.88	ITS2.56/11.88
LP CORP	11.875"	LPI 20+	IUS2.56/11.88	ITS2.56/11.88
NORDIC	11.875"	NI 40X	IUS2.56/11.88	ITS2.56/11.88
ROSEBURG	11.875"	RFPI 40s	IUS2.56/11.88	ITS2.56/11.88
WEYERHAEUSER	11.875"	TJI 210	IUS2.06/11.88	ITS2.06/11.88
WEYERHAEUSER	11.875"	EEL-20	IUS2.37/11.88	ITS2.37/11.88

BOISE CASCADE	16"	BCI 60s	IUS2.37/16	ITS2.37/16
LP CORP	16"	LP 36	IUS2.37/16	ITS2.37/16
LP CORP	16"	LP 42+	IUS2.56/16	ITS2.56/16
NORDIC	16"	NI 70	IUS2.56/16	ITS2.56/16
ROSEBURG	16"	RFPI 70	IUS2.37/16	ITS2.37/16
WEYERHAEUSER	16"	TJI 360	IUS2.37/16	ITS2.37/16
WEYERHAEUSER	16"	EEL-30	IUS2.37/16	ITS2.37/16

JOISTS NOT LISTED IN THE ABOVE TABLE MAY BE USED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED. SUBSTITUTE USP BRAND HANGERS WITH EQUIVALENT VALUES AS DESIRED.

NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:

- 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR
- 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS

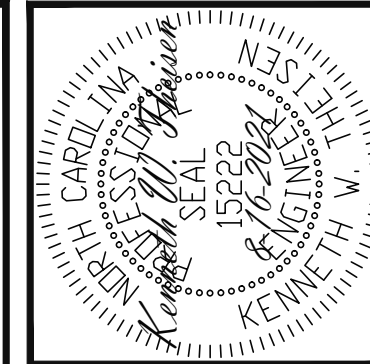
THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

ABBREVIATIONS

ABV ABOVE	FND FOUNDATION	TJ TRIPLE JOIST
B. BOTH	FTG FOOTING	TYP TYPICAL
B.E. BOTH ENDS	HDG HOT DIPPED	TRPL TRIPLE
BTWN BETWEEN	HGR GALVANIZED	TSP TRIPLE STUD POCKET
CIP CAST IN PLACE	HGR HANGER	UNO UNLESS NOTED
CONC CONCRETE	LVL LAMINATED VENEER LUMBER	OTHERWISE
CS CONTINUOUS SHEATHING	NTS NOT TO SCALE	XJ EXTRA JOIST
DIA DIAMETER	O.C. ON CENTER	
DBL DOUBLE	PSL PARALLEL STRAND LUMBER	
DJ DOUBLE JOIST	PT PRESSURE TREATED	
DSP DBL STUD POCKET	QJ QUAD JOIST	
EQ EQUAL	SP STUD POCKET	
EA EACH	SQ SQUARE	
FLG FLANGE		
FL PL FLITCH PLATE		
FLR FLOOR		

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CHAMBERLAIN HOMES
STRUCTURAL ADDENDUM
SCOPE: 250 FIELDSTONE DR
LOC: HUNGERFORD

ENG: KWT/MEB
DATE: 8-16-2021

PROJECT NO.
21-65-336

SHEET NO.
SPECS
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