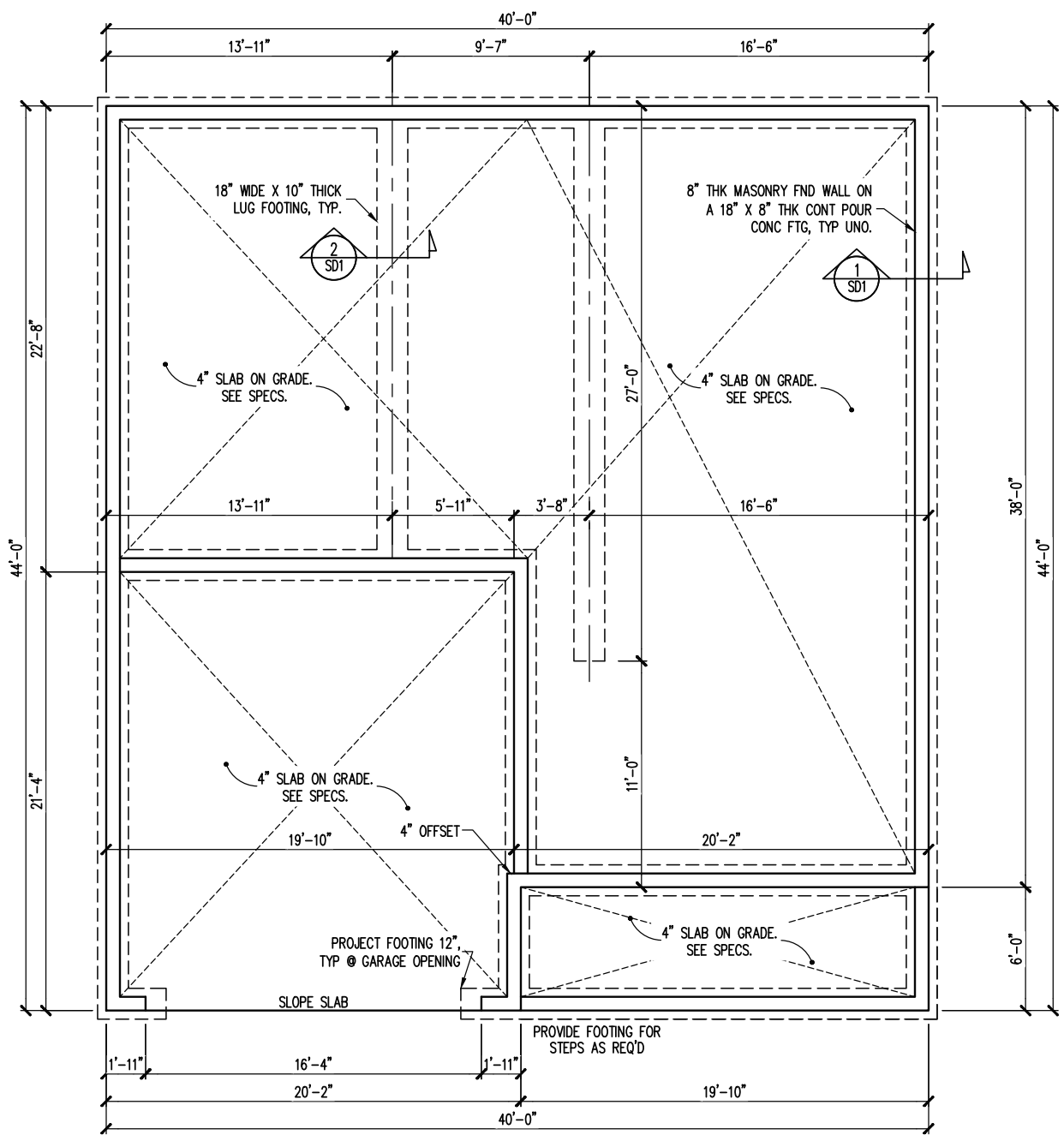


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 ASSOCIATES, P.A.
 STRUCTURAL ENGINEERS
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 318 W Millbrook Rd. Unit 201
 Raleigh, North Carolina 27609
 Phone (919) 844-1661



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 16.02: GENERAL WALL BRACING NOTES
 PART 17: KING STUDS FOR EXTERIOR WALLS
 SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

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

SUPERIOR HOMES OF THE SANDHILLS		
STRUCTURAL ADDENDUM		
REV #	REF PROJ #	DATE
1	23-66-321	9/19/2023
2	24-66-083	2/19/2024
3	24-77-170	4/17/2024

SCOPE	NASHVILLE
LOC	MASTER

ENG: JNC
 DATE: 6/15/2023

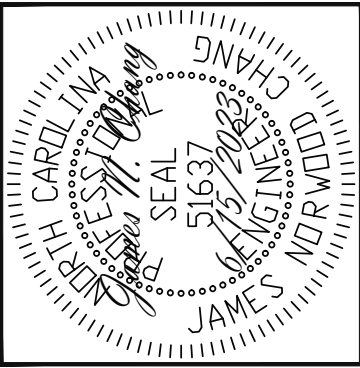
PROJECT NO.
 23-65-151

SHEET NO.
 S1

1 of 9

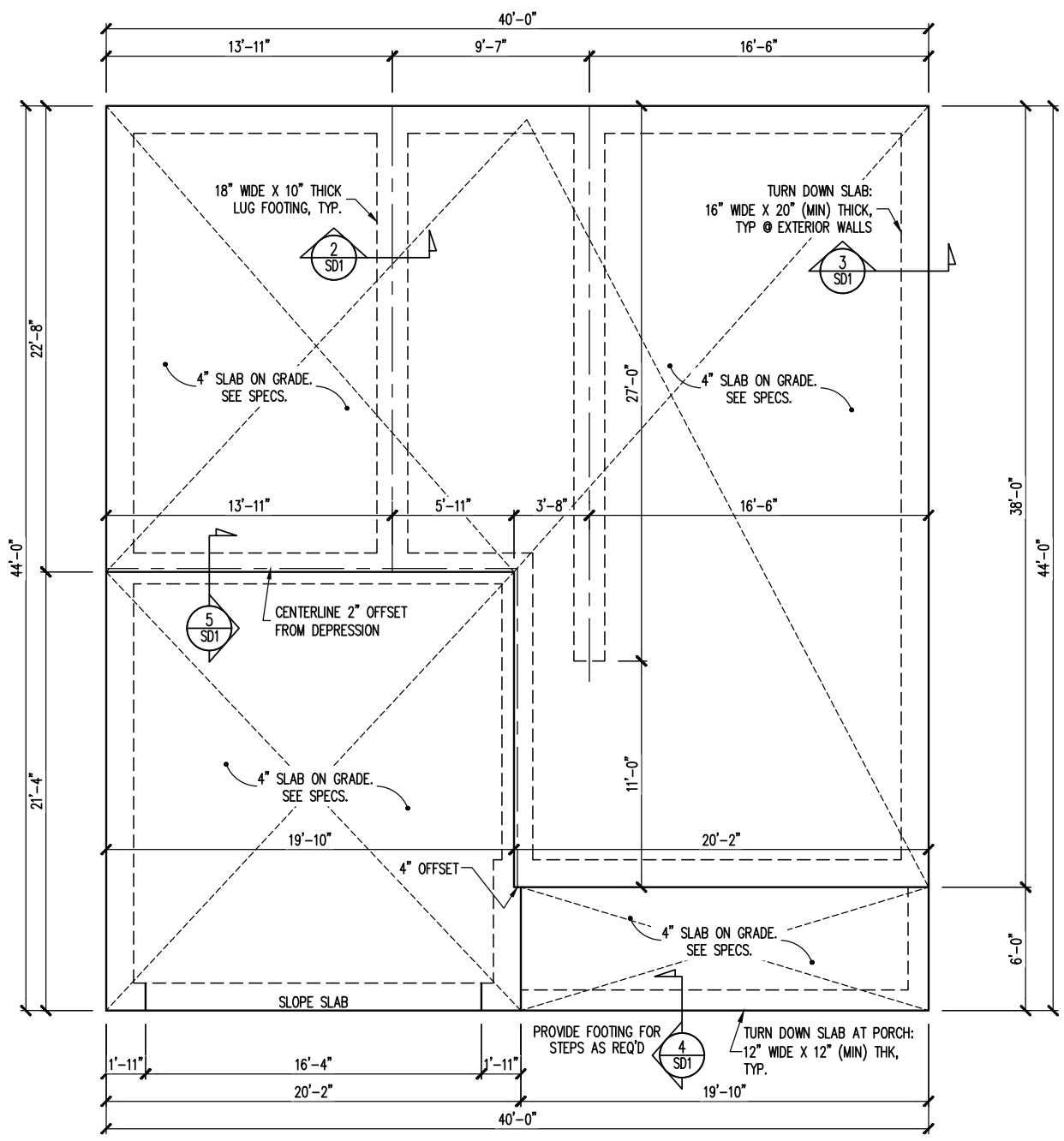
FOUNDATION PLAN

1/8" = 1'-0"



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PART 17: KING STUDS FOR EXTERIOR WALLS

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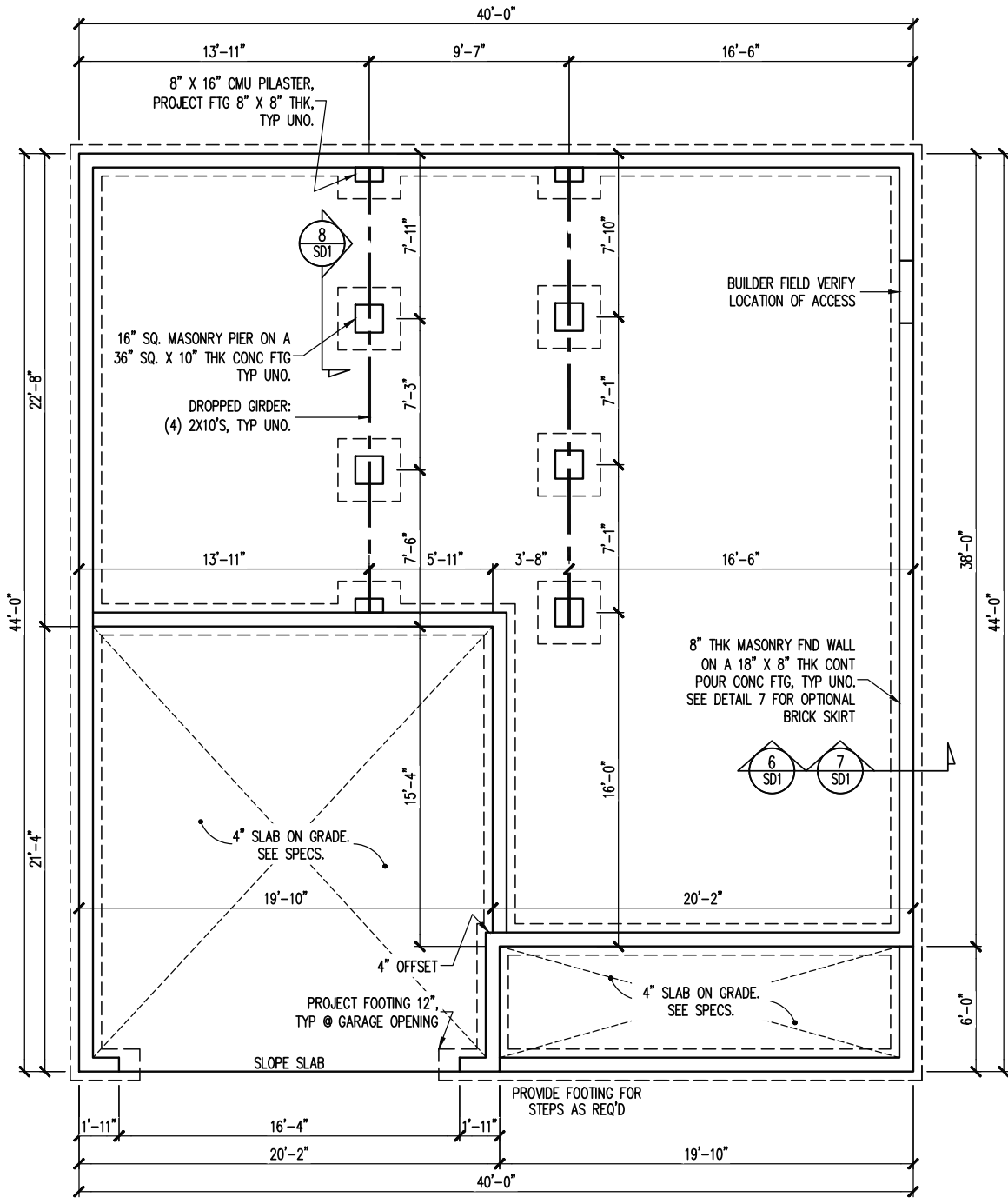
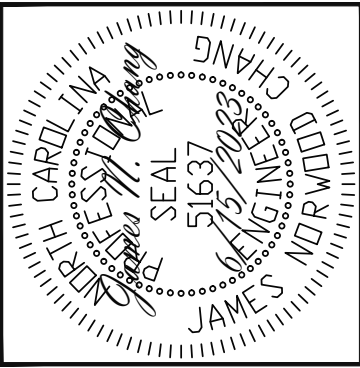
SUPERIOR HOMES OF THE SANDHILLS	
STRUCTURAL ADDENDUM	
REV #	REF PROJ #
1	23-66-321
2	24-66-083
3	24-77-170
DATE	
9/19/2023	
2/19/2024	
4/17/2024	
SCOPE	NASHVILLE
LOC	MASTER

ENG: JNC
 DATE: 6/15/2023

PROJECT NO.
 23-65-151

SHEET NO.
 S1
 1 of 9

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



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PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

NOTES:

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- BUILDER TO FIELD LOCATE CRAWLSPACE ACCESS OPENING WITH MINIMUM DIMENSIONS OF 18X24. DO NOT LOCATE ACCESS OPENING BELOW POINT LOADS FROM ABOVE WITHOUT ENGINEER APPROVAL.

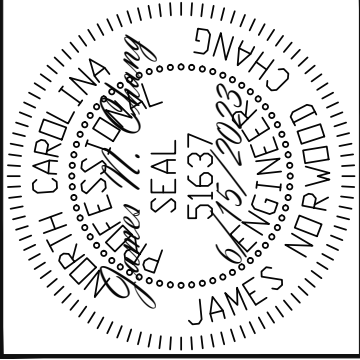
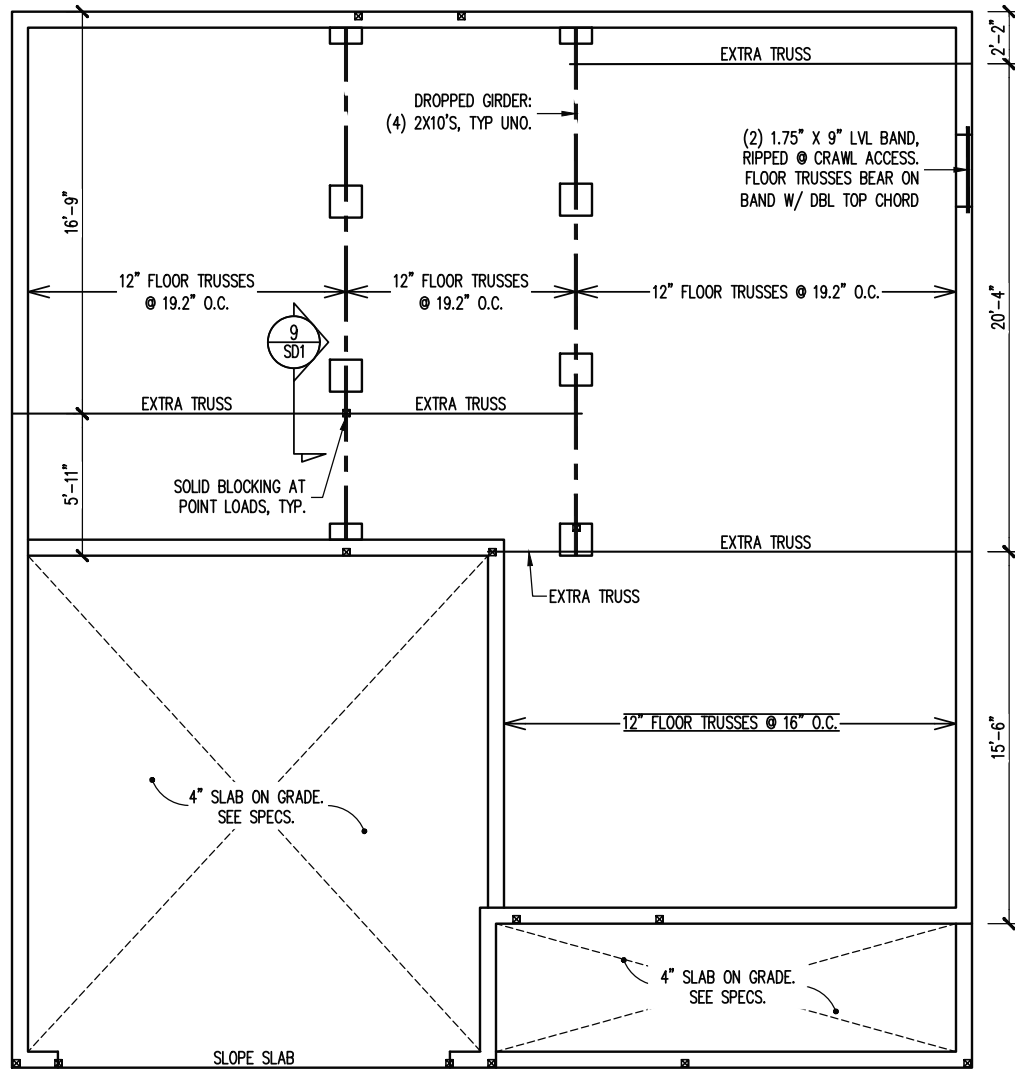
SCOPE	SUPERIOR HOMES OF THE SANDHILLS				
	STRUCTURAL ADDENDUM				
	REV #	REF PROJ #	DATE		
LOC	NASHVILLE		1	23-66-321	9/19/2023
	MASTER		2	24-66-083	2/19/2024
			3	24-77-170	4/17/2024

ENG: JNC
 DATE: 6/15/2023

PROJECT NO.
 23-65-151

SHEET NO.
 S1
 1 of 9

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



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SUPERIOR HOMES OF THE SANDHILLS		
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2	24-66-083	2/19/2024
3	24-77-170	4/17/2024

SCOPE	NASHVILLE
LOC	MASTER

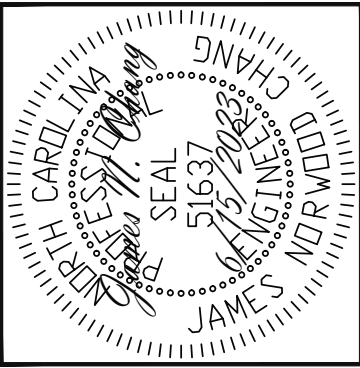
ENG: JNC
 DATE: 6/15/2023

PROJECT NO.
 23-65-151

SHEET NO.
 S1.1
 1.1 of 9

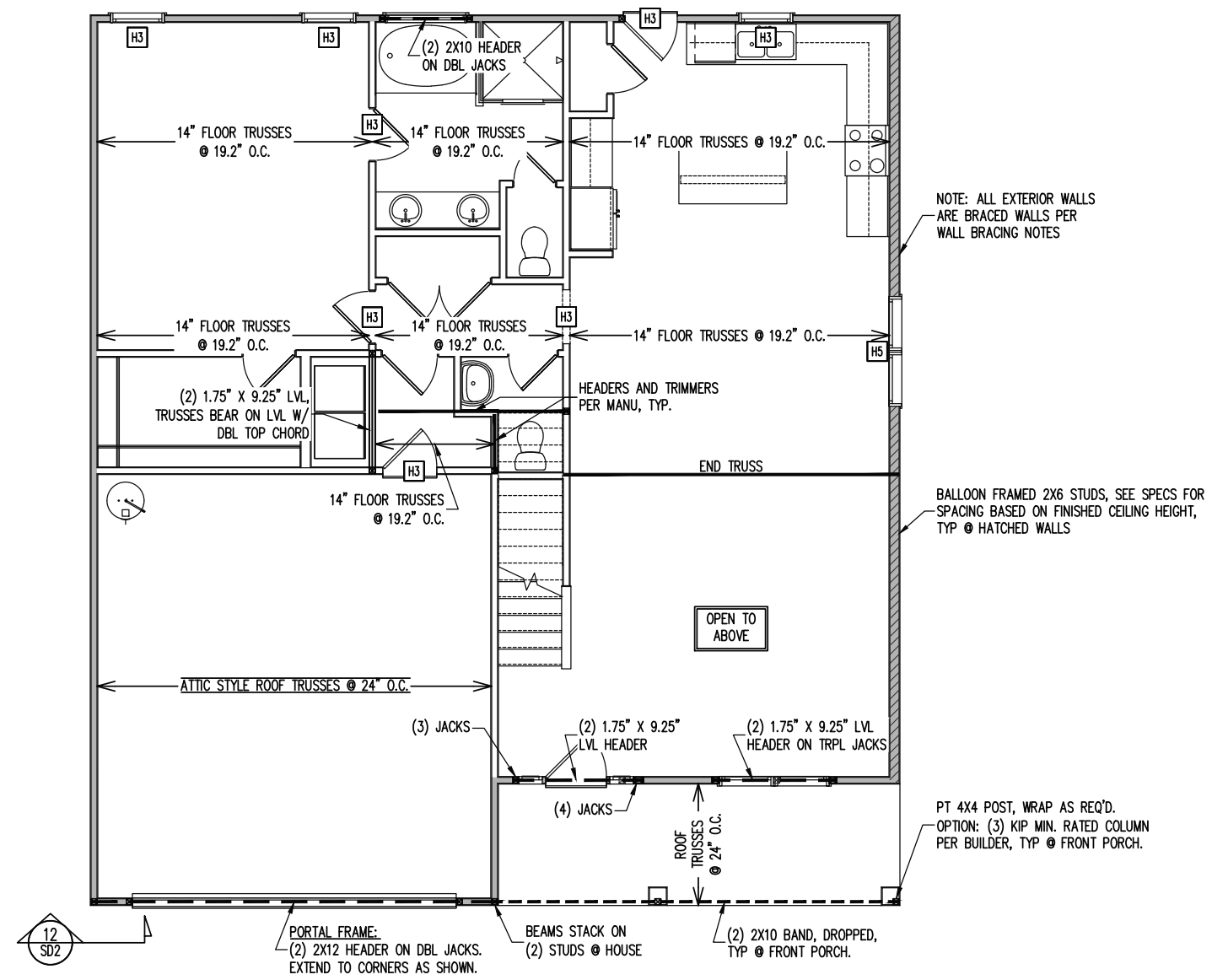
CRAWLSPACE FRAMING PLAN

1/8" = 1'-0"



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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 = 167" 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 38" MAX.
 (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" 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.

SUPERIOR HOMES OF THE SANDHILLS STRUCTURAL ADDENDUM	REV #	REF PROJ #	DATE
	1	23-66-321	9/19/2023
	2	24-66-083	2/19/2024
SCOPE	NASHVILLE		
LOC	MASTER		
	3	24-77-170	4/17/2024

ENG: JNC
 DATE: 6/15/2023

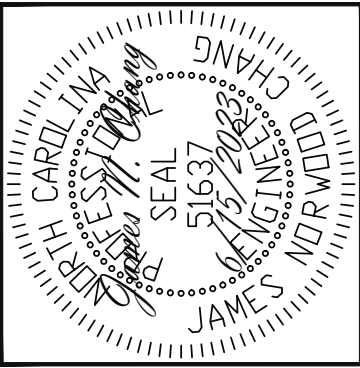
PROJECT NO.
 23-65-151

SHEET NO.
 S2

2 of 9

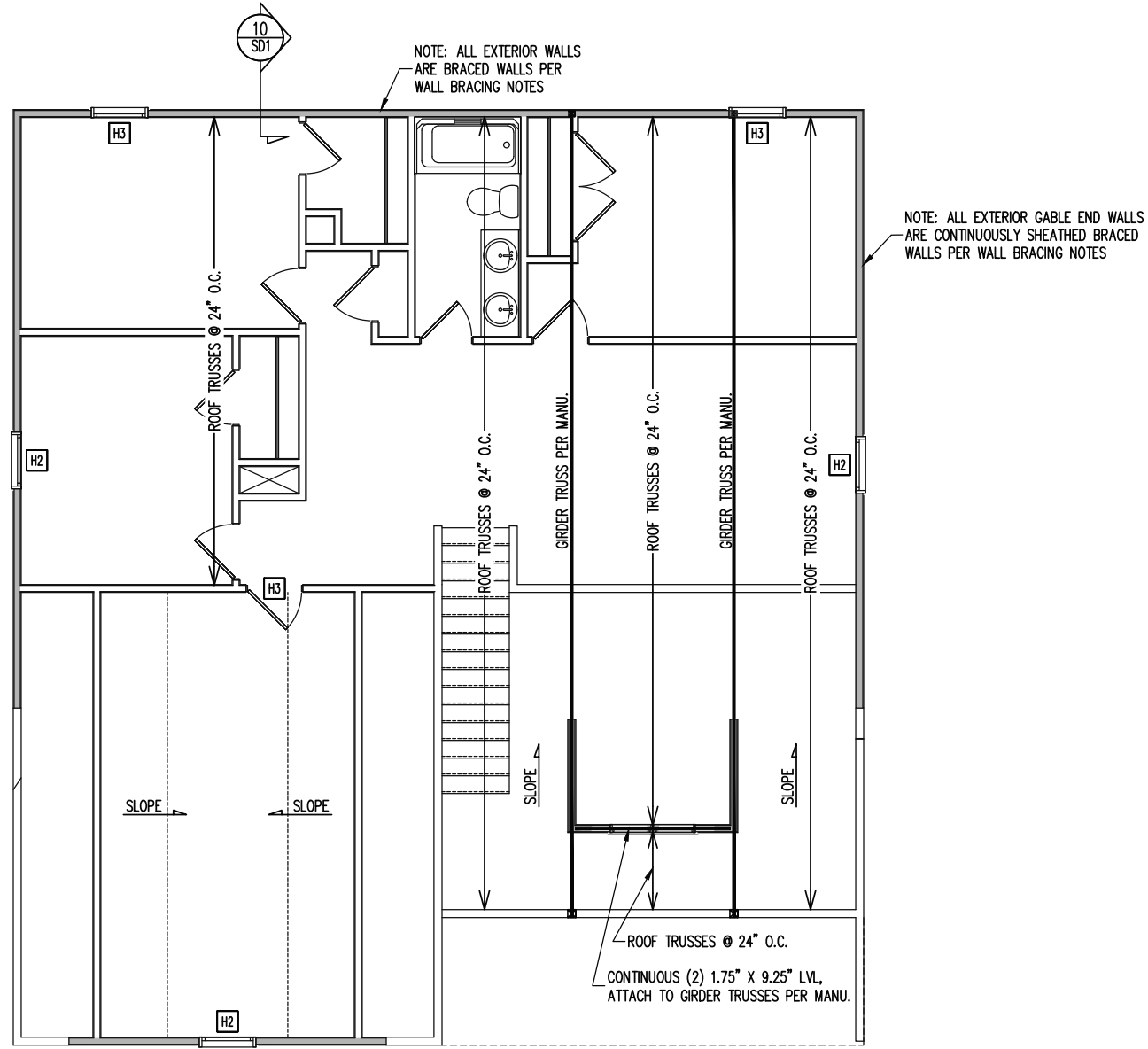
1ST FLOOR FRAMING PLAN

WALLS AND CEILING 1/8" = 1'-0"



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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 = 129' 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 38" MAX.
 (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" 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.

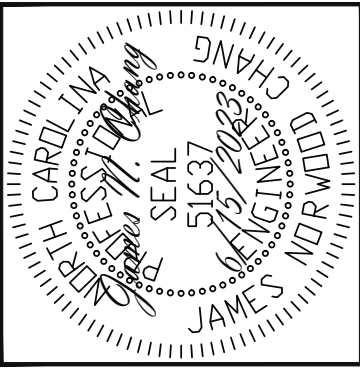
SUPERIOR HOMES OF THE SANDHILLS	
STRUCTURAL ADDENDUM	
REV #	REF PROJ # DATE
1	23-66-321 9/19/2023
2	24-66-083 2/19/2024
3	24-77-170 4/17/2024
SCOPE	NASHVILLE
LOC	MASTER

ENG: JNC
 DATE: 6/15/2023

PROJECT NO.
 23-65-151

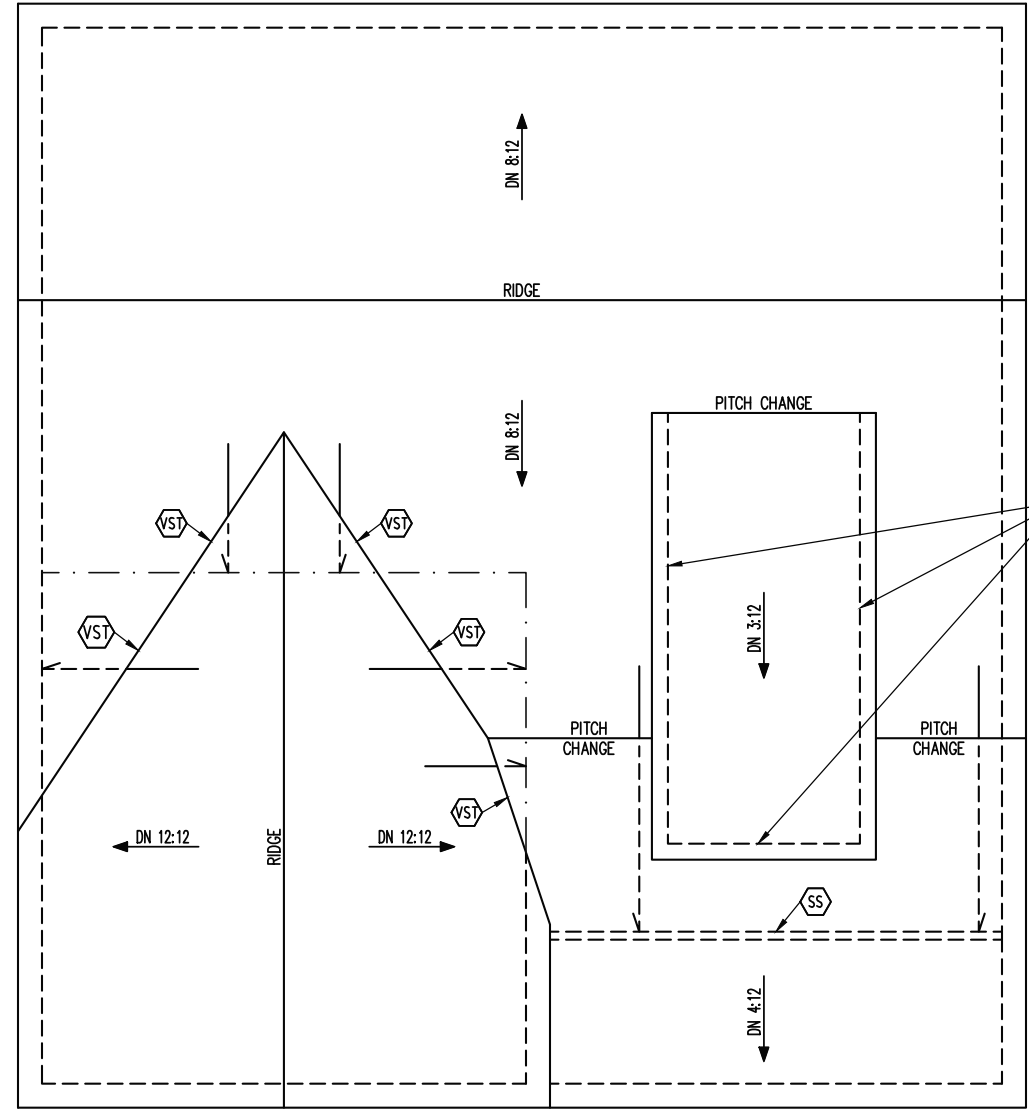
SHEET NO.
 S3
 3 of 9

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



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FRAME DORMER WALLS
 ABOVE TRUSS GIRDER
 AND LVL HEADER

FRAMING SCHEDULE	
ROOF ONLY	
VST	VALLEY SET TRUSSES PER MANU
SS	SUPPORT/SPLICE TRUSSES ON KNEEWALL BELOW

FRAMING NOTES	
ROOF ONLY	
-VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.	

TRUSS UPLIFT CONNECTORS	
EXPOSURE B, 120 MPH, ANY PITCH	
24" O.C. MAX ROOF TRUSS SPACING	
TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.	
ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.	
ROOF SPAN UP TO 18'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 18'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM

ROOF FRAMING PLAN
 1/8" = 1'-0"

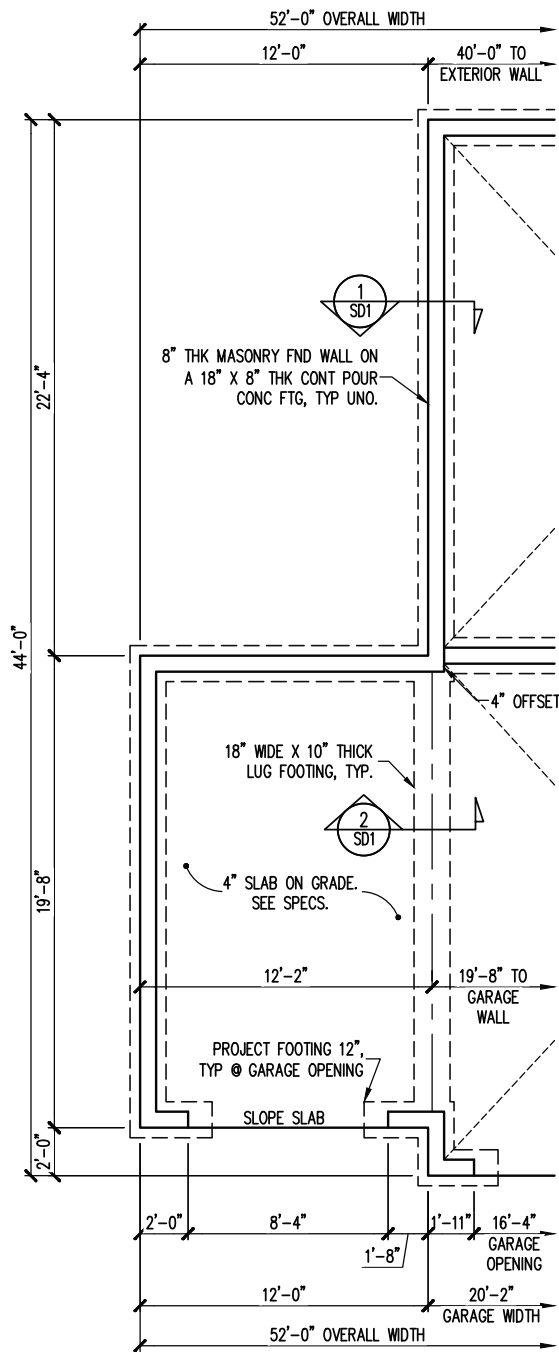
SUPERIOR HOMES OF THE SANDHILLS			
STRUCTURAL ADDENDUM			
REV #	REF PROJ #	DATE	
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3	24-77-170	4/17/2024	

SCOPE	NASHVILLE
LOC	MASTER

ENG: JNC
 DATE: 6/15/2023

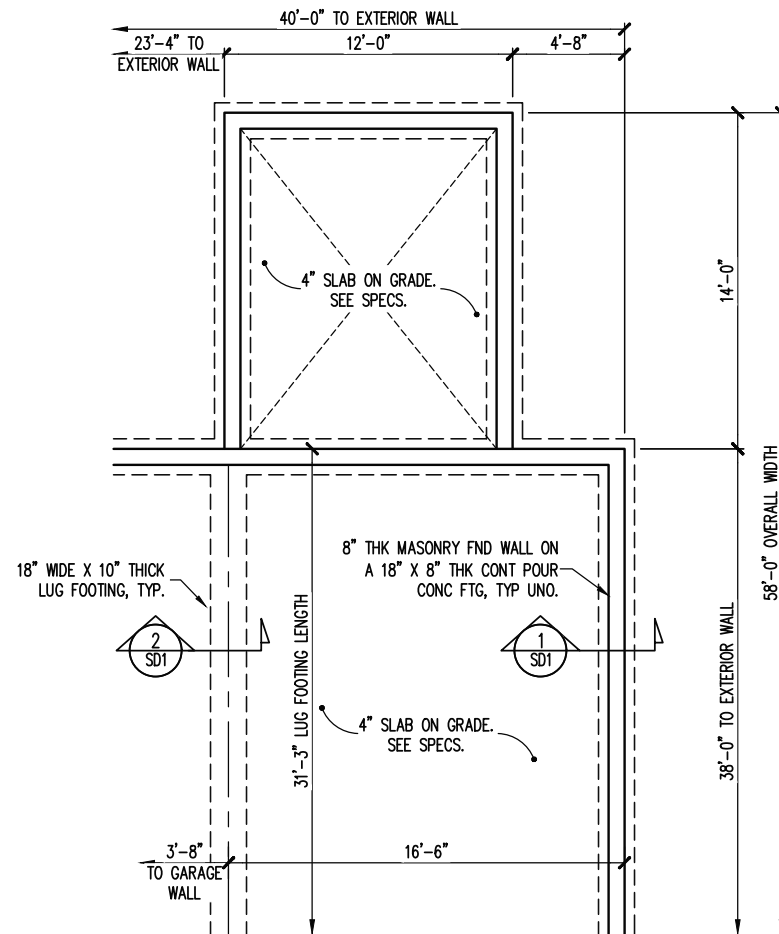
PROJECT NO.
 23-65-151

SHEET NO.
 S4
 4 of 9



PARTIAL FOUNDATION PLAN

OPT. 3RD CAR GARAGE
1/8" = 1'-0"

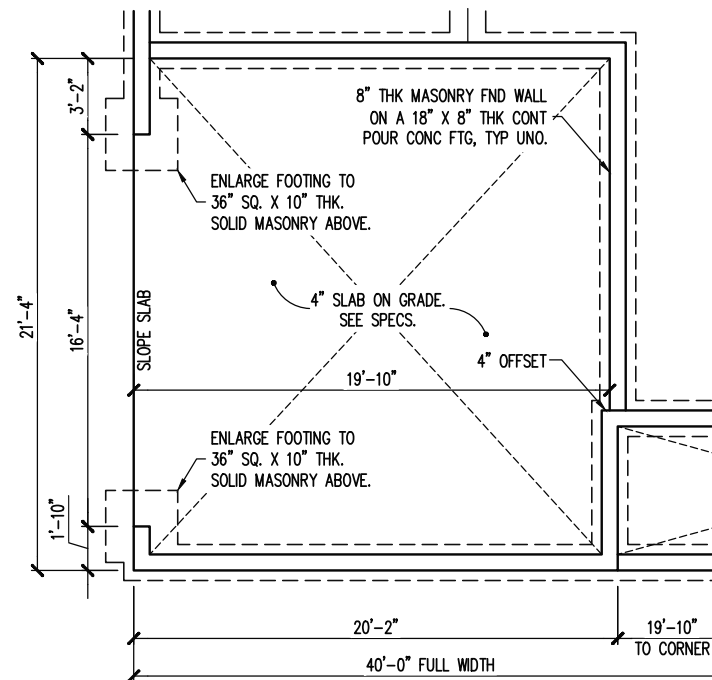


PARTIAL FOUNDATION PLAN

OPT. COVERED PORCH
1/8" = 1'-0"

PARTIAL FOUNDATION PLAN

OPT. FIREPLACE
1/8" = 1'-0"

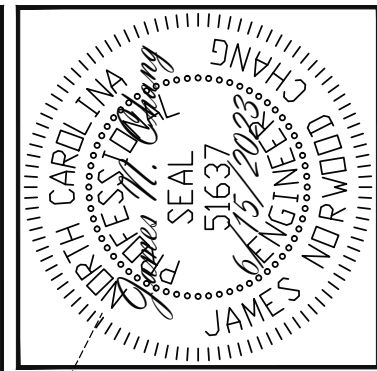


PARTIAL FOUNDATION PLAN

OPT. SIDE LOAD GARAGE
1/8" = 1'-0"

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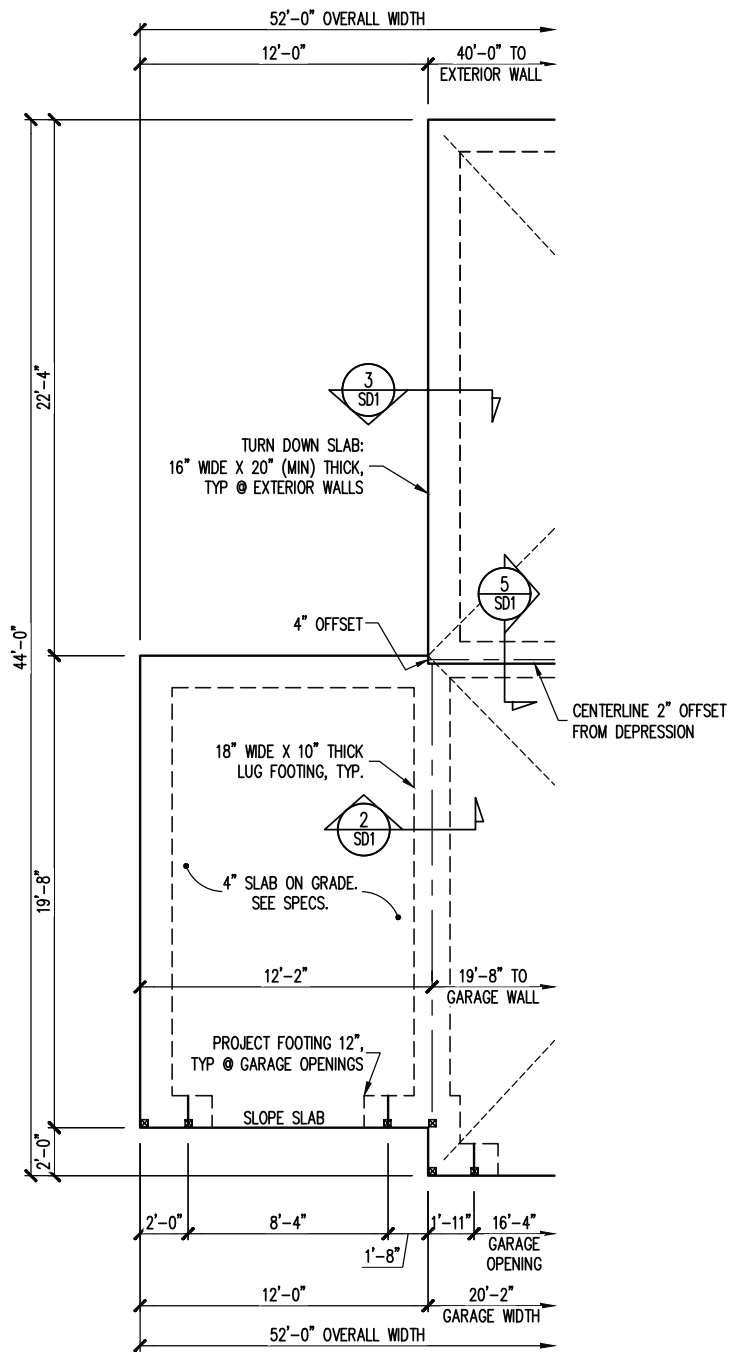
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3	24-77-170	4/17/2024
SCOPE	NASHVILLE	MASTER
LOC		

ENG: JNC
DATE: 6/15/2023

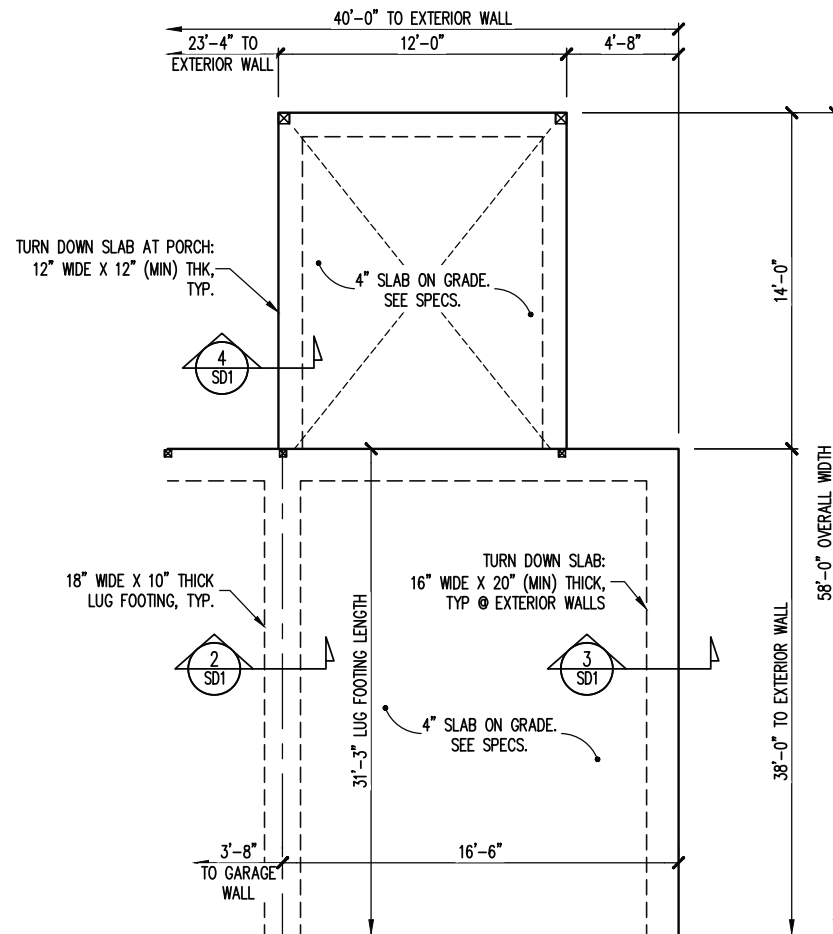
PROJECT NO.
23-65-151

SHEET NO.
OPTIONS



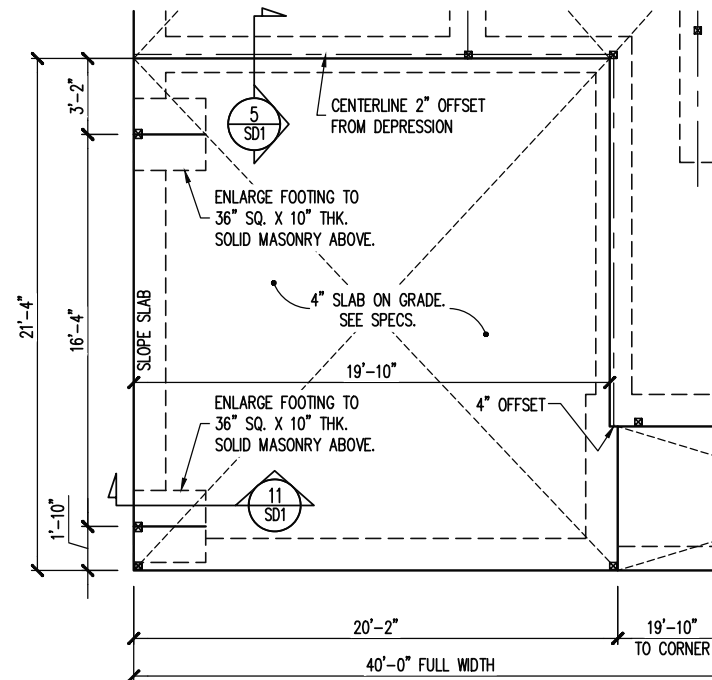
PARTIAL FOUNDATION PLAN

OPT. 3RD CAR GARAGE
MONOSLAB OPTION
1/8" = 1'-0"



PARTIAL FOUNDATION PLAN

OPT. COVERED PORCH
MONOSLAB OPTION
1/8" = 1'-0"

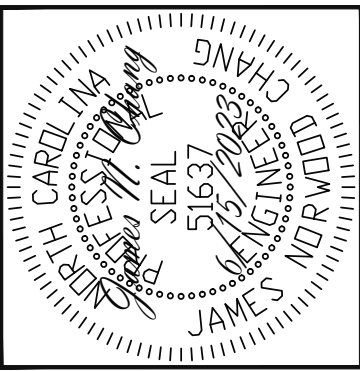
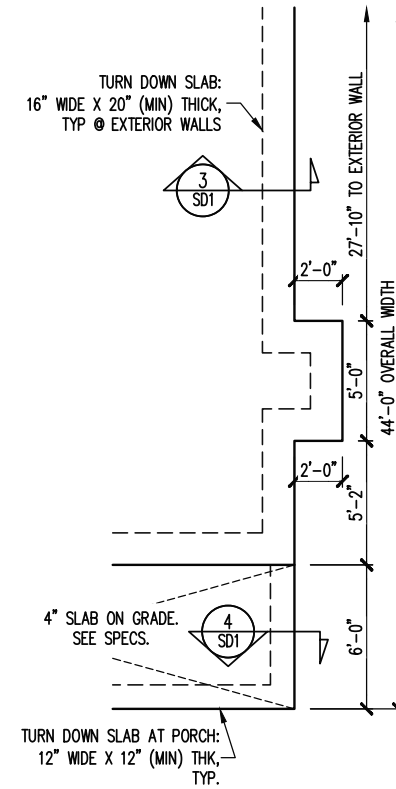


PARTIAL FOUNDATION PLAN

OPT. SIDE LOAD GARAGE
MONOSLAB OPTION
1/8" = 1'-0"

PARTIAL FOUNDATION PLAN

OPT. FIREPLACE
MONOSLAB OPTION
1/8" = 1'-0"



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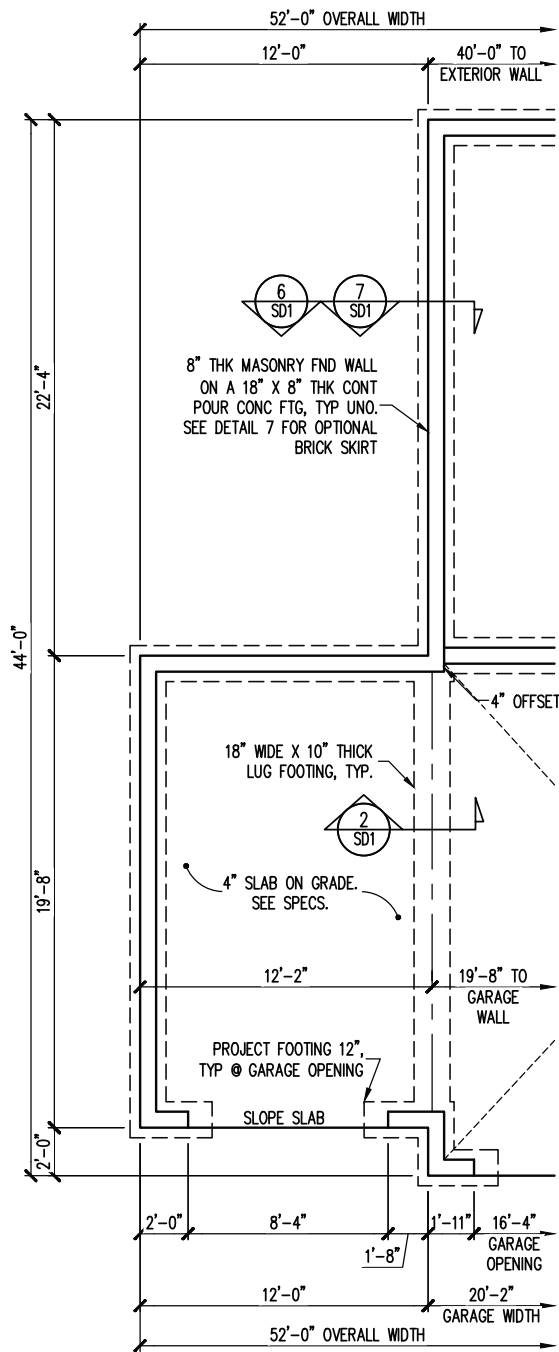
SUPERIOR HOMES OF THE SANDHILLS STRUCTURAL ADDENDUM	REV #	REF PROJ #	DATE
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SCOPE	NASHVILLE		
LOC	MASTER		
	3	24-77-170	4/17/2024

ENG: JNC
DATE: 6/15/2023

PROJECT NO.
23-65-151

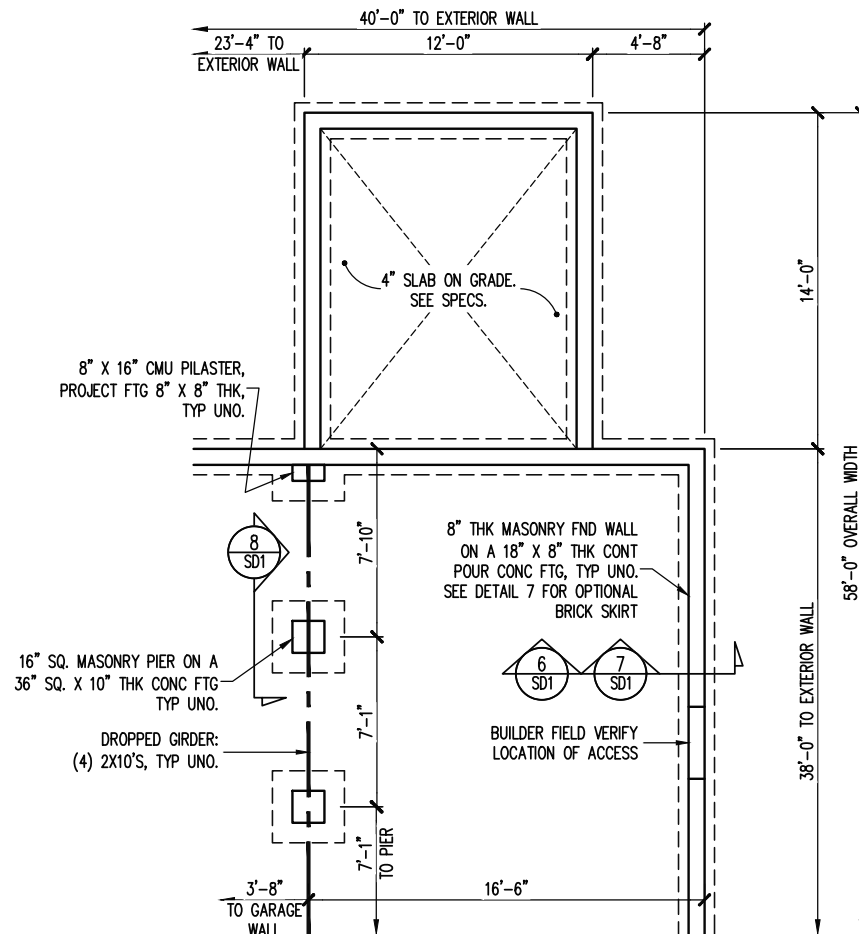
SHEET NO.
OPTIONS

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PARTIAL FOUNDATION PLAN

OPT. 3RD CAR GARAGE
CRAWLSPACE OPTION
1/8" = 1'-0"

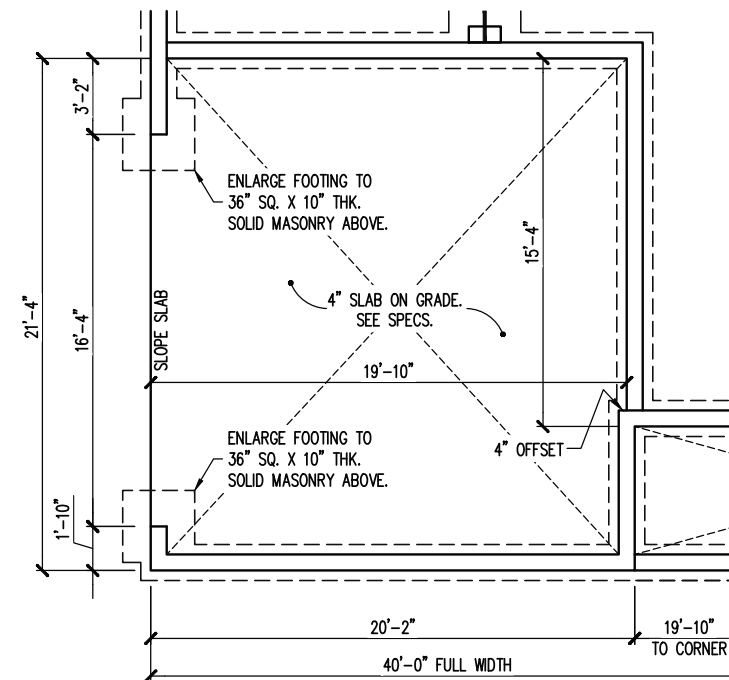


PARTIAL FOUNDATION PLAN

OPT. COVERED PORCH
CRAWLSPACE OPTION
1/8" = 1'-0"

PARTIAL FOUNDATION PLAN

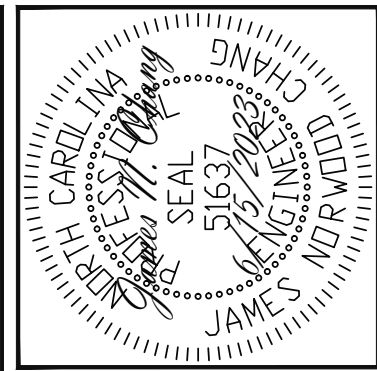
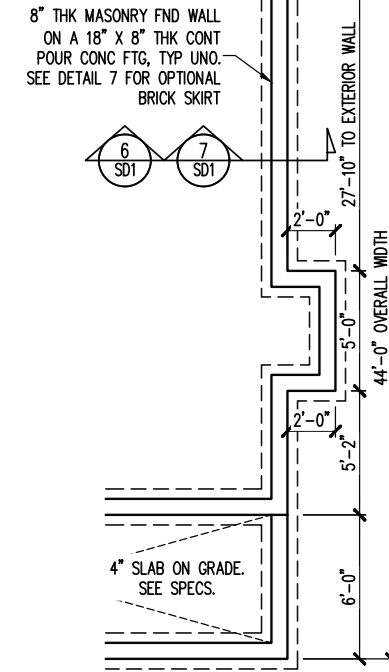
OPT. SIDE LOAD GARAGE
CRAWLSPACE OPTION
1/8" = 1'-0"



PARTIAL FOUNDATION PLAN

OPT. FIREPLACE
CRAWLSPACE OPTION
1/8" = 1'-0"

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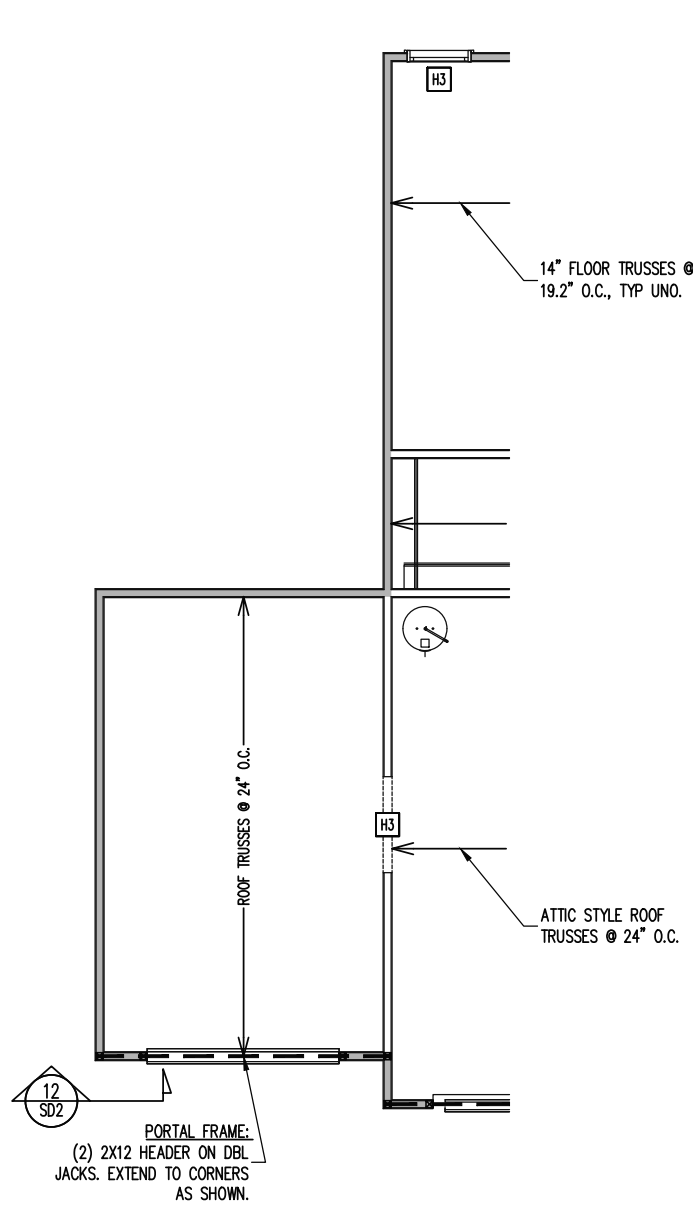
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3	24-77-170	4/17/2024	

ENG: JNC
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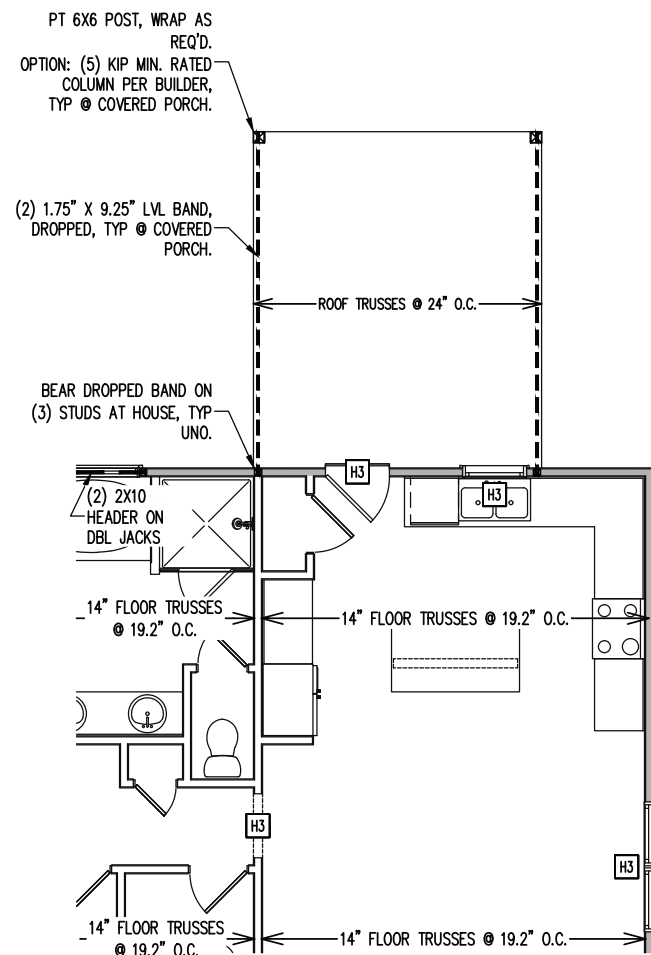
PROJECT NO.
23-65-151

SHEET NO.
OPTIONS



PARTIAL 1ST FLOOR FRAMING PLAN

OPT. 3RD CAR GARAGE
WALLS AND CEILING 1/8" = 1'-0"

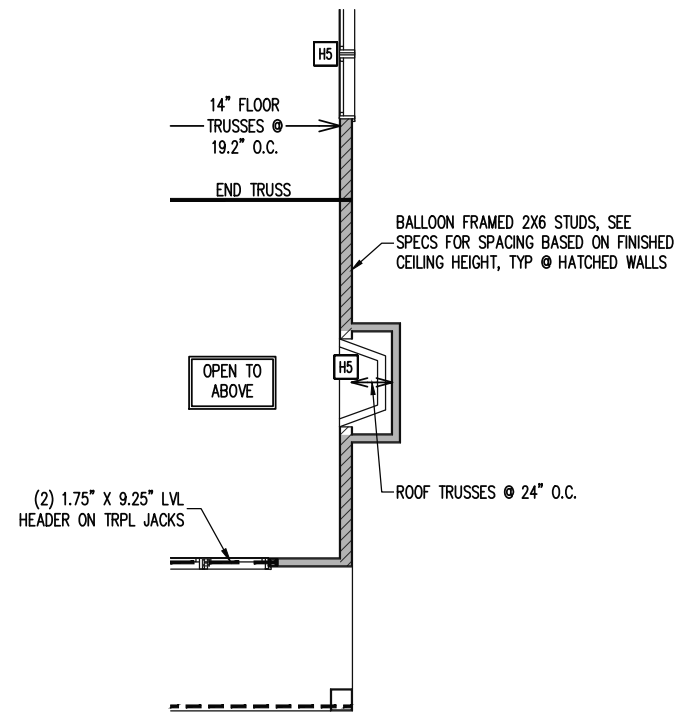


PARTIAL 1ST FLOOR FRAMING PLAN

OPT. COVERED PORCH
WALLS AND CEILING 1/8" = 1'-0"

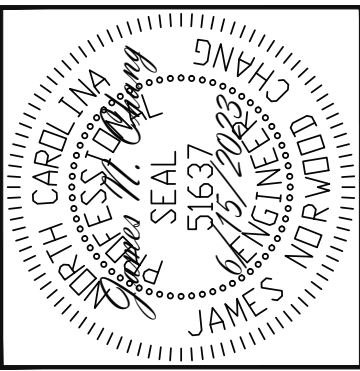
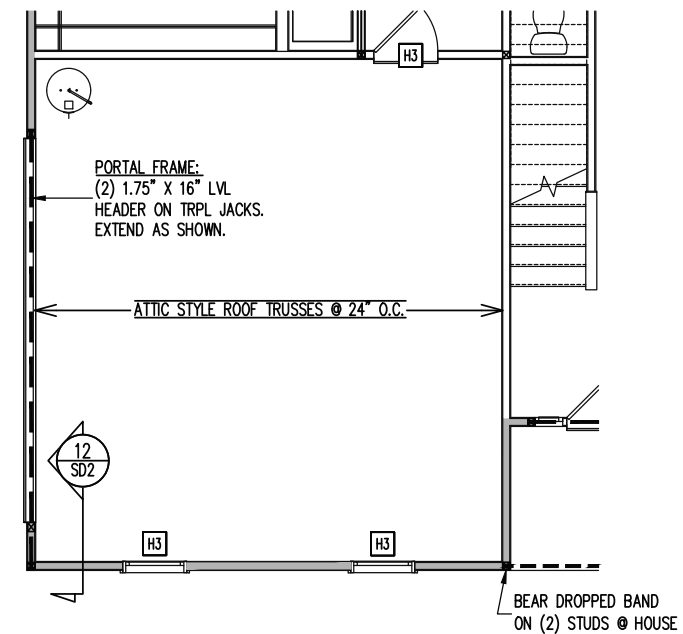
PARTIAL 1ST FLOOR FRAMING PLAN

OPT. FIREPLACE
WALLS AND CEILING 1/8" = 1'-0"



PARTIAL 1ST FLOOR FRAMING PLAN

OPT. SIDE LOAD GARAGE
WALLS AND CEILING 1/8" = 1'-0"



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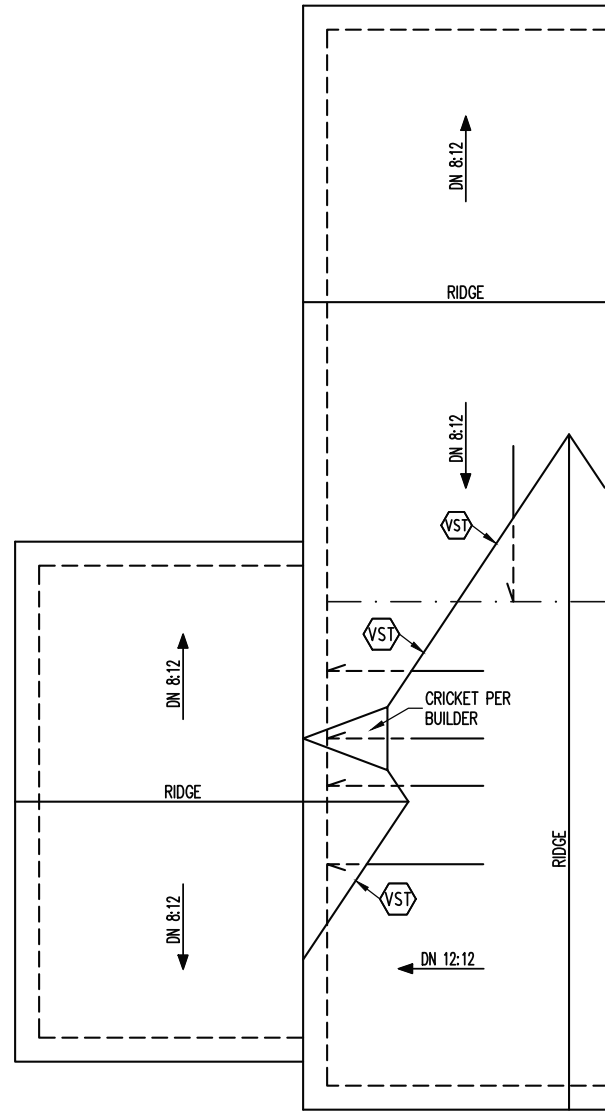
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318 W Millbrook Rd. Unit 201
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Phone (919) 844-1661

SUPERIOR HOMES OF THE SANDHILLS		STRUCTURAL ADDENDUM	
REV #	REF PROJ #	DATE	
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2	24-66-083	2/19/2024	
3	24-77-170	4/17/2024	
SCOPE	NASHVILLE		
LOC	MASTER		

ENG: JNC
DATE: 6/15/2023

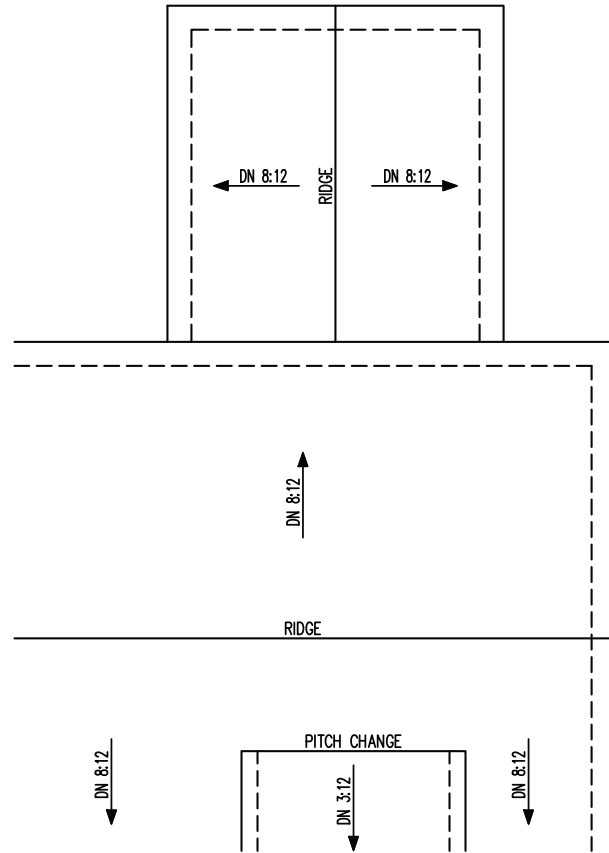
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23-65-151

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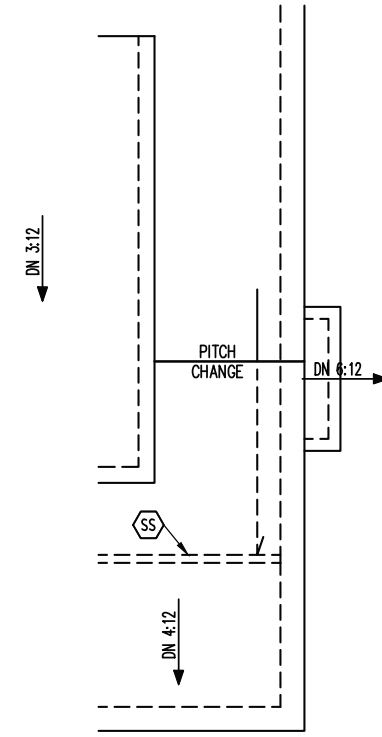
PARTIAL ROOF FRAMING PLAN

OPT. 3RD CAR GARAGE
1/8" = 1'-0"



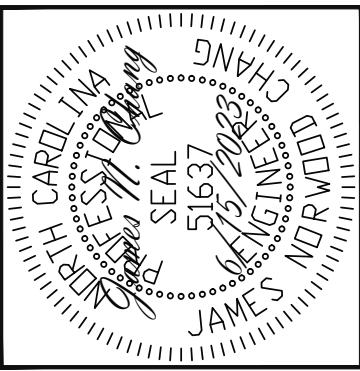
PARTIAL ROOF FRAMING PLAN

OPT. COVERED PORCH
1/8" = 1'-0"



PARTIAL ROOF FRAMING PLAN

OPT. FIREPLACE
1/8" = 1'-0"



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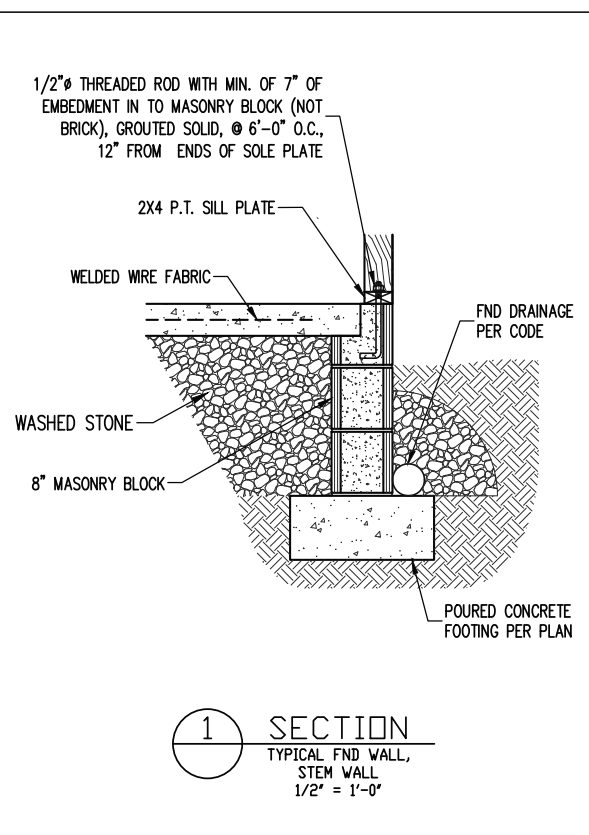
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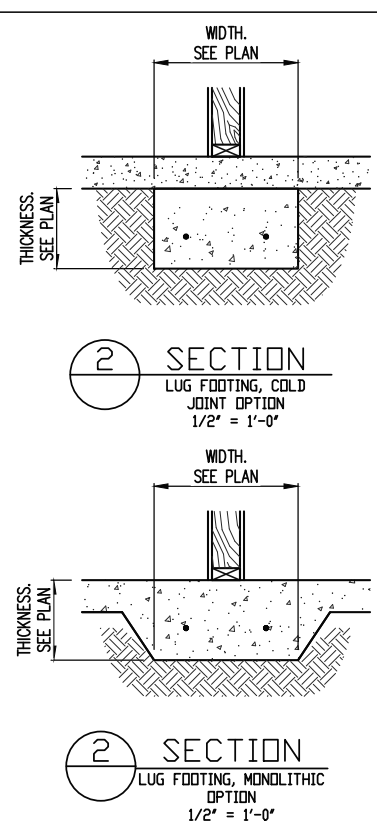
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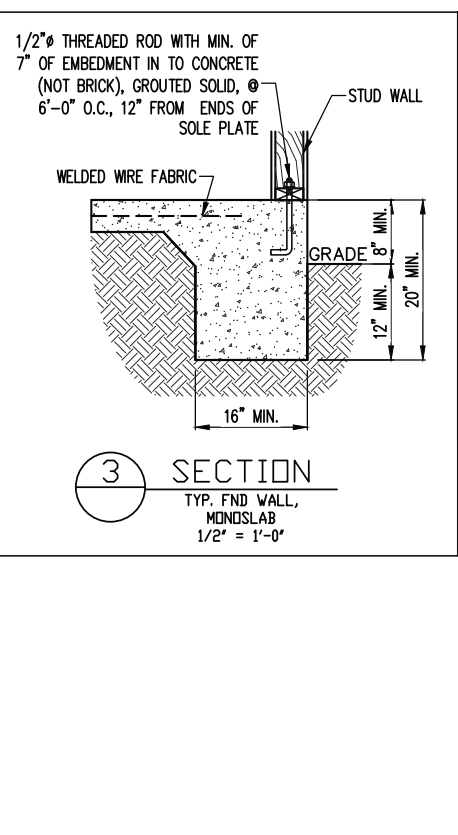


1 SECTION
TYPICAL FND WALL,
STEM WALL
1/2" = 1'-0"

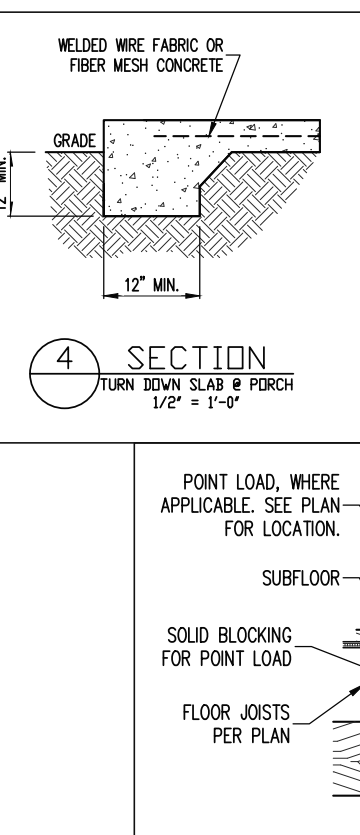


2 SECTION
LUG FOOTING, COLD
JOINT OPTION
1/2" = 1'-0"

2 SECTION
LUG FOOTING, MONOLITHIC
OPTION
1/2" = 1'-0"

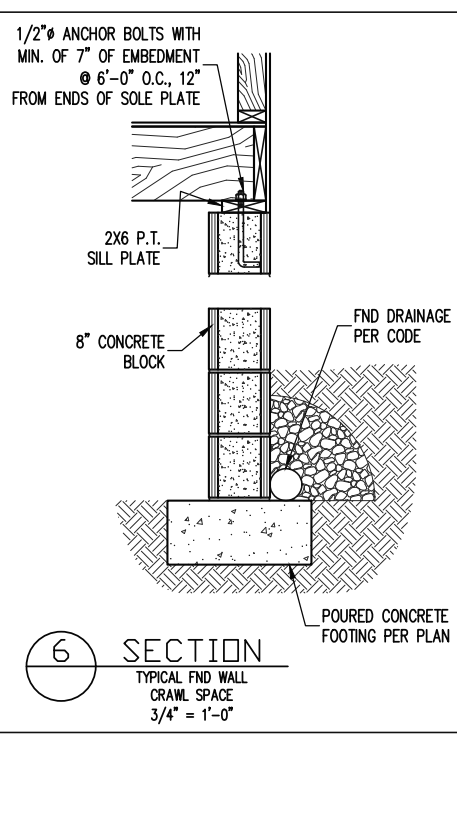


3 SECTION
TYP. FND WALL,
MONOSLAB
1/2" = 1'-0"

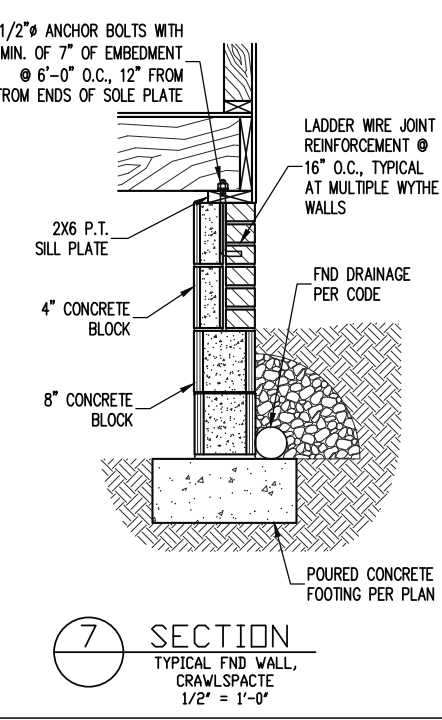


4 SECTION
TURN DOWN SLAB @ PORCH
1/2" = 1'-0"

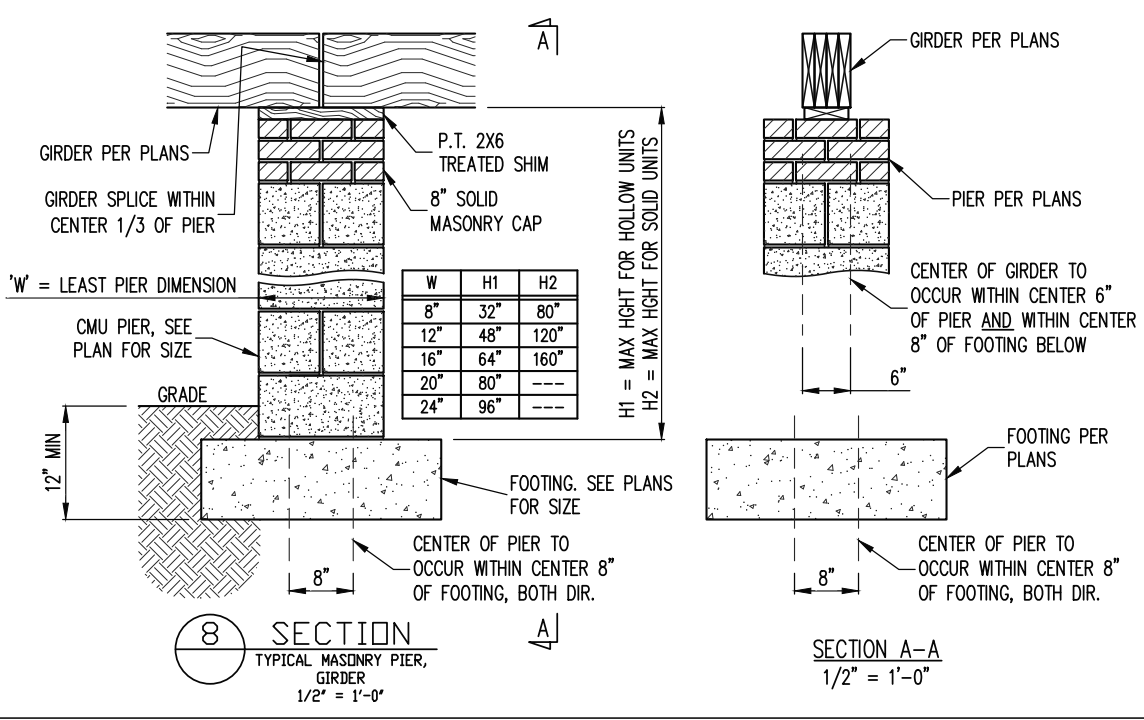
5 SECTION
LUG FOOTING, MONOLITHIC
OPTION
1/2" = 1'-0"



6 SECTION
TYPICAL FND WALL
CRAWL SPACE
3/4" = 1'-0"

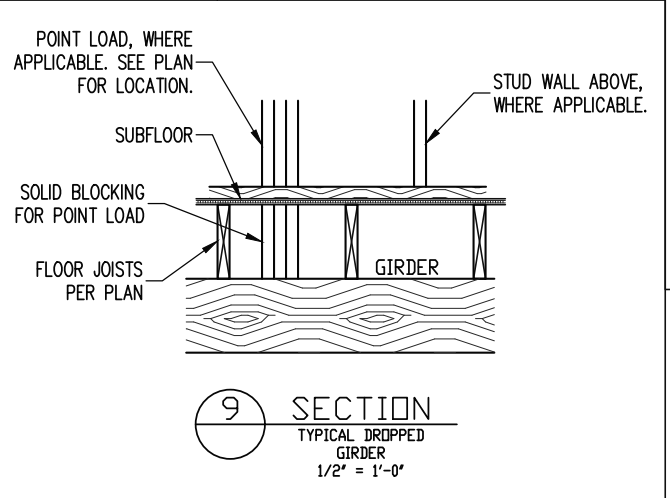


7 SECTION
TYPICAL FND WALL,
CRAWLSPACE
1/2" = 1'-0"

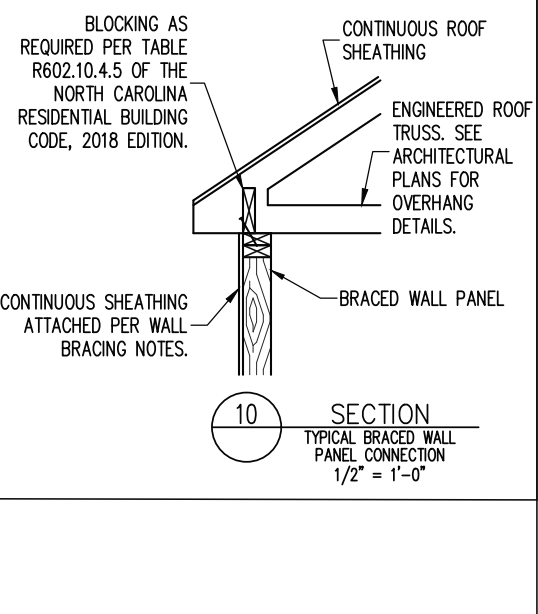


8 SECTION
TYPICAL MASONRY PIER,
GIRDER
1/2" = 1'-0"

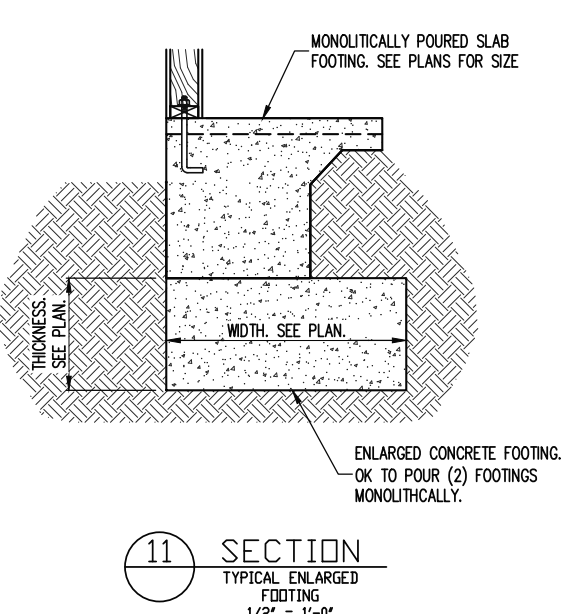
SECTION A-A
1/2" = 1'-0"



9 SECTION
TYPICAL DROPPED
GIRDER
1/2" = 1'-0"

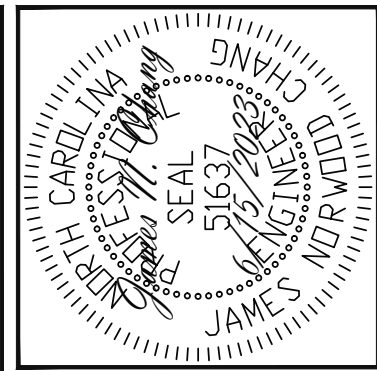


10 SECTION
TYPICAL BRACED WALL
PANEL CONNECTION
1/2" = 1'-0"



11 SECTION
TYPICAL ENLARGED
FOOTING
1/2" = 1'-0"

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(2) CONT. 2X TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2X PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

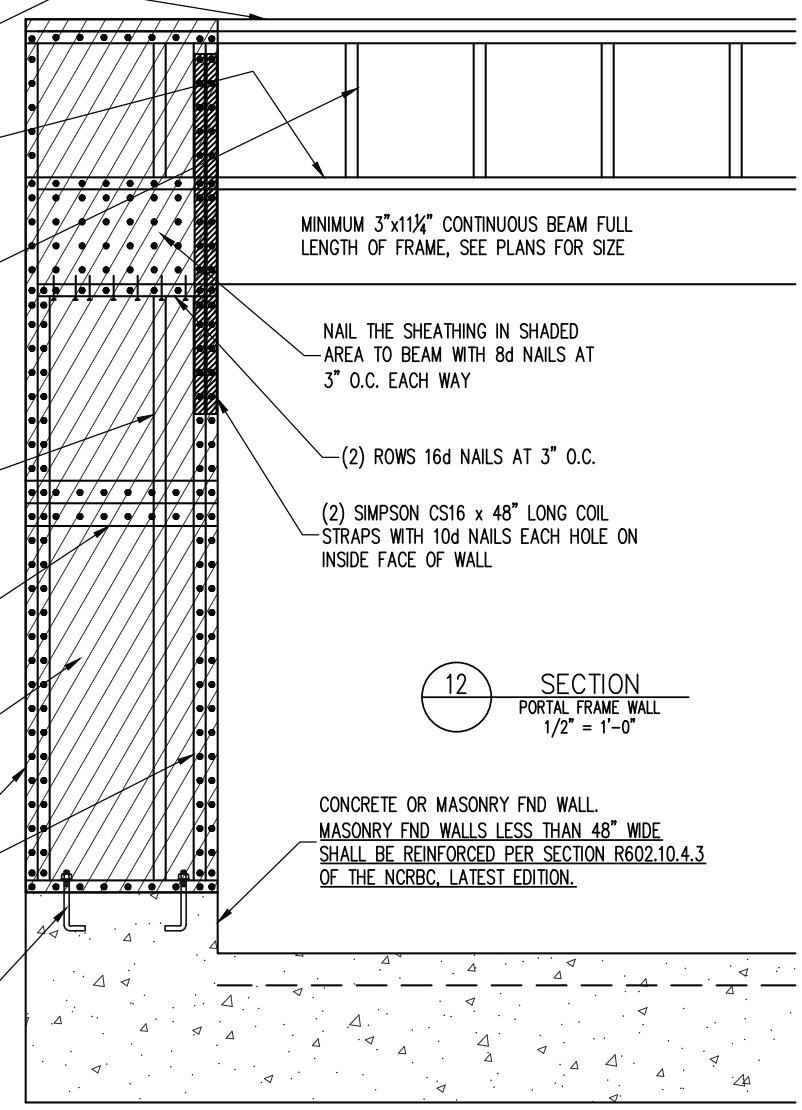
WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL OCCUR OVER AND BE NAILED TO COMMON BLOCKING AND OCCUR WITHIN MIDDLE 24" OF WALL HEIGHT. ONE ROW OF 3" O.C. NAILING IS REQUIRED IN EACH PANEL EDGE.

7/16" O.S.B. OR 15/32" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2" DIA x 7" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE WASHERS OR ADDITIONAL HOLDOWN PER PLANS. OPTION: (2) 5/8" DIA. THREADED RODS INSTALLED PER SECTION R602.10.4.3 OF THE NCRBC, LATEST EDITION.



MINIMUM 3"x11 1/2" CONTINUOUS BEAM FULL LENGTH OF FRAME, SEE PLANS FOR SIZE

NAIL THE SHEATHING IN SHADED AREA TO BEAM WITH 8d NAILS AT 3" O.C. EACH WAY

(2) ROWS 16d NAILS AT 3" O.C.

(2) SIMPSON CS16 x 48" LONG COIL STRAPS WITH 10d NAILS EACH HOLE ON INSIDE FACE OF WALL

CONCRETE OR MASONRY FND WALL. MASONRY FND WALLS LESS THAN 48" WIDE SHALL BE REINFORCED PER SECTION R602.10.4.3 OF THE NCRBC, LATEST EDITION.

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 THAT ANY REVISIONS ISSUED BY THE EOR ARE PROMPTLY 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	GALV 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	EA EACH	
EA EACH	FLG FLANGE	
FLG FLANGE	FL PL FLITCH PLATE	
FL PL FLITCH PLATE	FLR FLOOR	
FLR FLOOR		

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: MASONRY

7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, FM = 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 USS STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO

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. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
E = 1,400,000 PSI, F_c = 425 PSI, F_v = 135 PSI, SPECIFIC GRAVITY = 0.42 MIN
F_b = 875 PSI FOR 2X4, 2X6, 2X8. F_b = 800 PSI FOR 2X10'S, 750 PSI FOR 2X12'S

PART 11: ENGINEERED LUMBER

11.01 LVL OR PSL MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
E = 1,800,000 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 10E6 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. MAY SUBSTITUTE PSL AND LVL FOR EACH OTHER UNO

PART 12: PRESSURE TREATED LUMBER

12.01 LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AMPA 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 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 NCRBC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRBC 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 MSP FOR GB
-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:

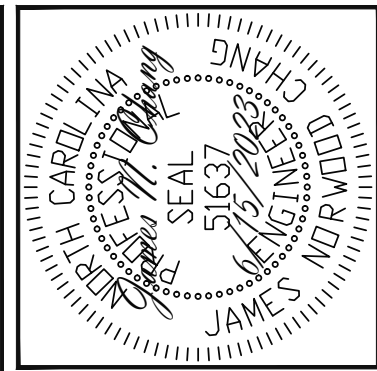
MAX OPENING WIDTH	NUMBER OF KING STUDS				
	5'-0"	9'-0"	13'-0"	17'-0"	21'-0"
STUD SIZE 2X4	1	2	3	4	5
2X6	1	1	2	2	2
2X8	1	1	1	1	2

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



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SD2

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