

GENERAL NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE ARE CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

SQUARE FOOTAGE

HEATED SQUARE FOOTAGE		UNHEATED SQUARE FOOTAGE	
FIRST FLOOR=	2332	GARAGE=	543
SECOND FLOOR=	453	FRONT PORCH=	234
THIRD FLOOR=	N/A	SCREEN PORCH=	200
BASEMENT=	N/A	DECK=	N/A
		STORAGE=	740
TOTAL HEATED=	2785	TOTAL UNHEATED=	1717

CRAWL SPACE VENTILATION CALCULATIONS

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

2332 SQ. FT. OF CRAWL SPACE/1500

1.6 SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: 4 VENTS AT 0.45 SQ. FT. NET FREE

VENTILATION EACH= 1.8 SQ. FT. OF VENTILATION

****FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.**

ATTIC VENTILATION CALCULATIONS

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

3310 SQ. FT. OF ATTIC/300= 11

EACH OF INLET AND OUTLET REQUIRED.

***WALL AND ROOF CLADDING DESIGN VALUES**

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

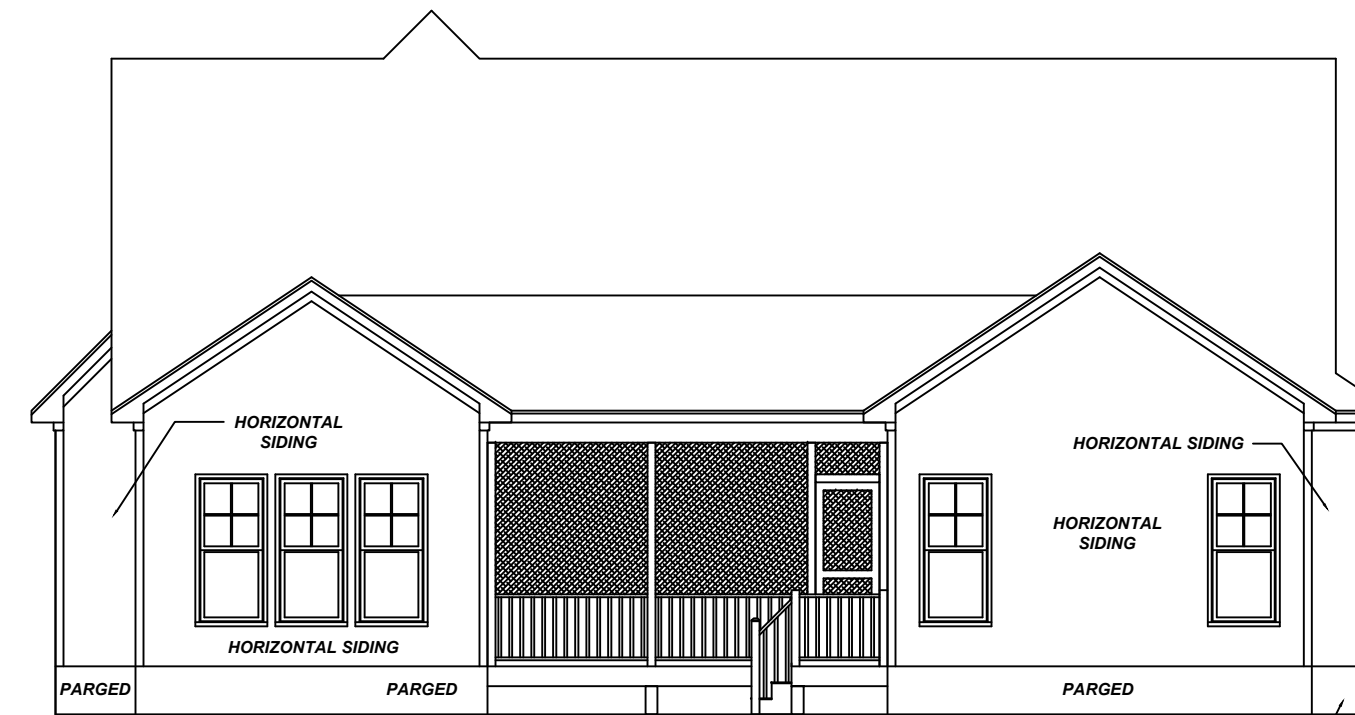
21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

**** MEAN ROOF HEIGHT 30' OR LESS**



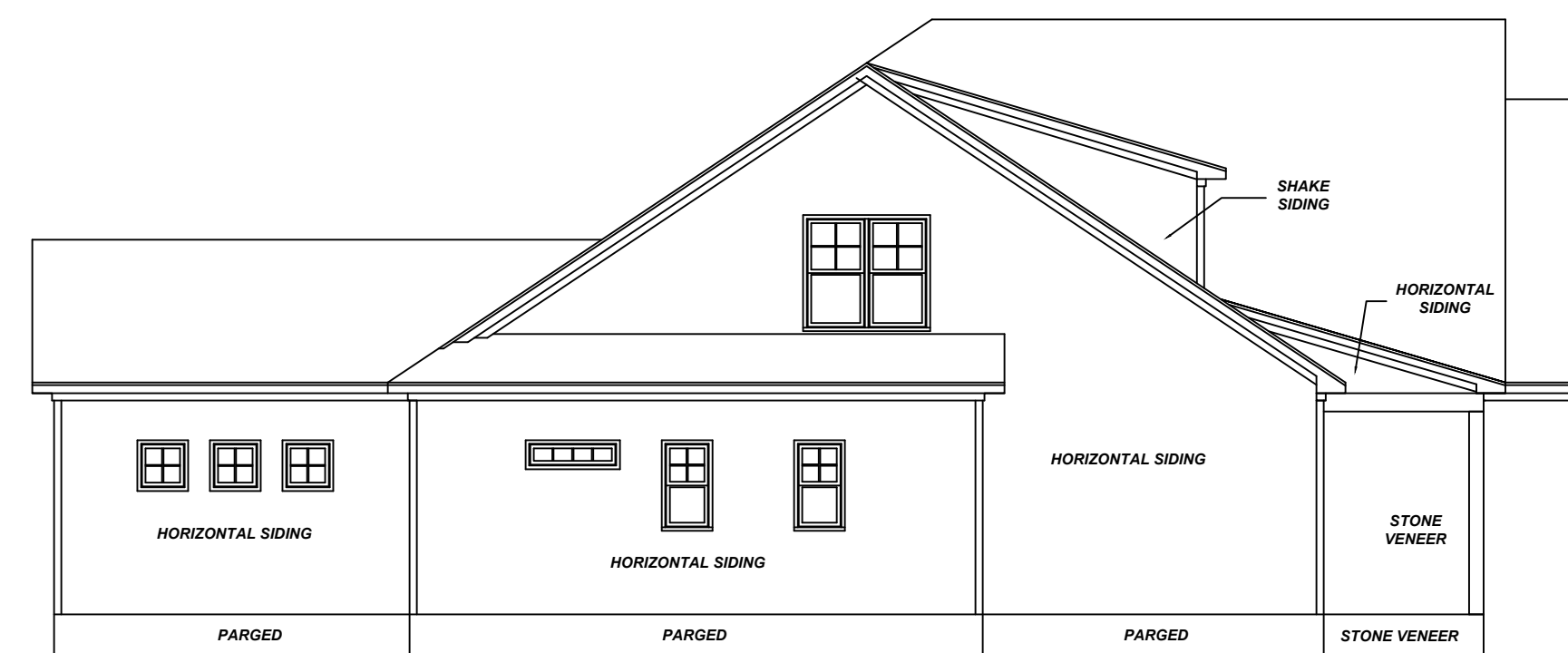
FRONT ELEVATION

1/4" = 1'-0"



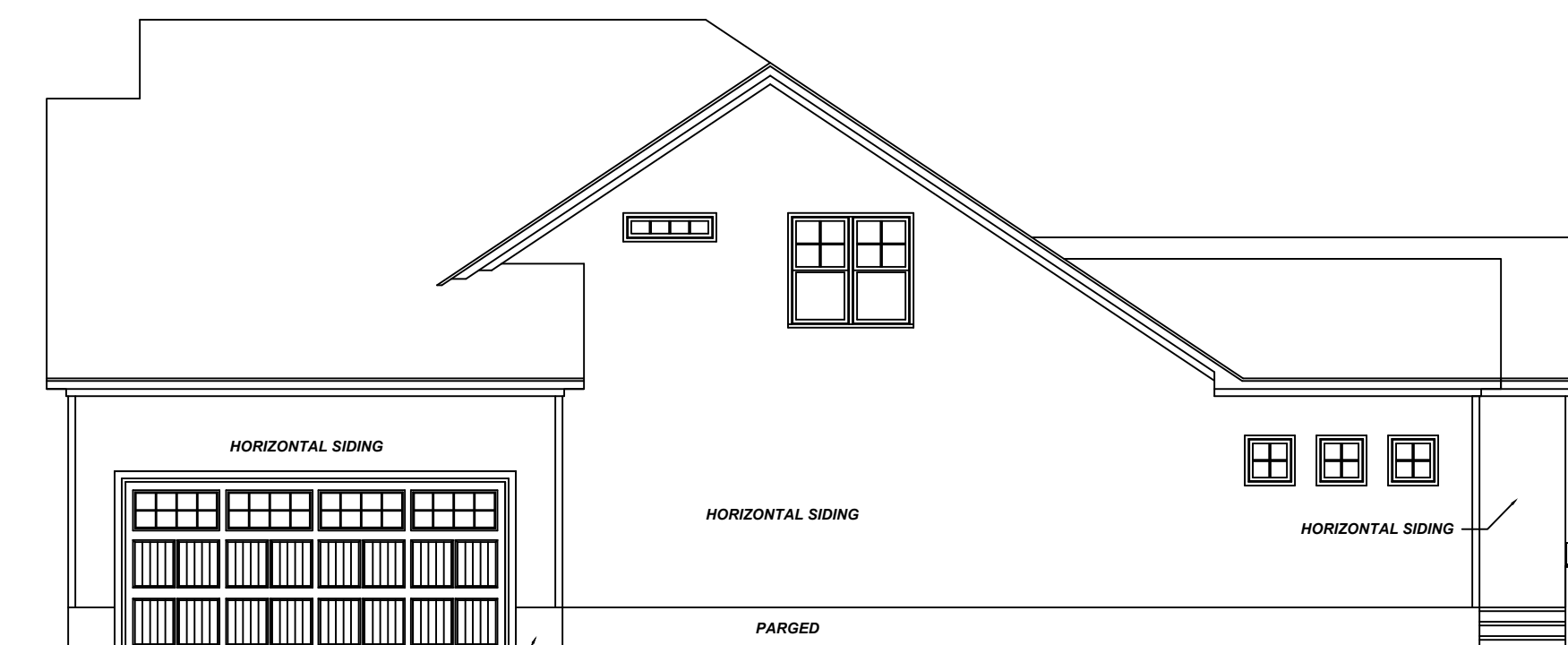
REAR ELEVATION

1/8" = 1'-0"



LEFT ELEVATION

1/8" = 1'-0"



RIGHT ELEVATION

1/8" = 1'-0"

Project #:	24-266
Date:	8-26-24
Drawn/Design By:	KBB
Scale:	REFER TO ELEV.

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

9101 Ten-Ten Rd.
Raleigh, NC 27603
Office: (919) 302-0693



Website: www.KandAHomeDesigns.com

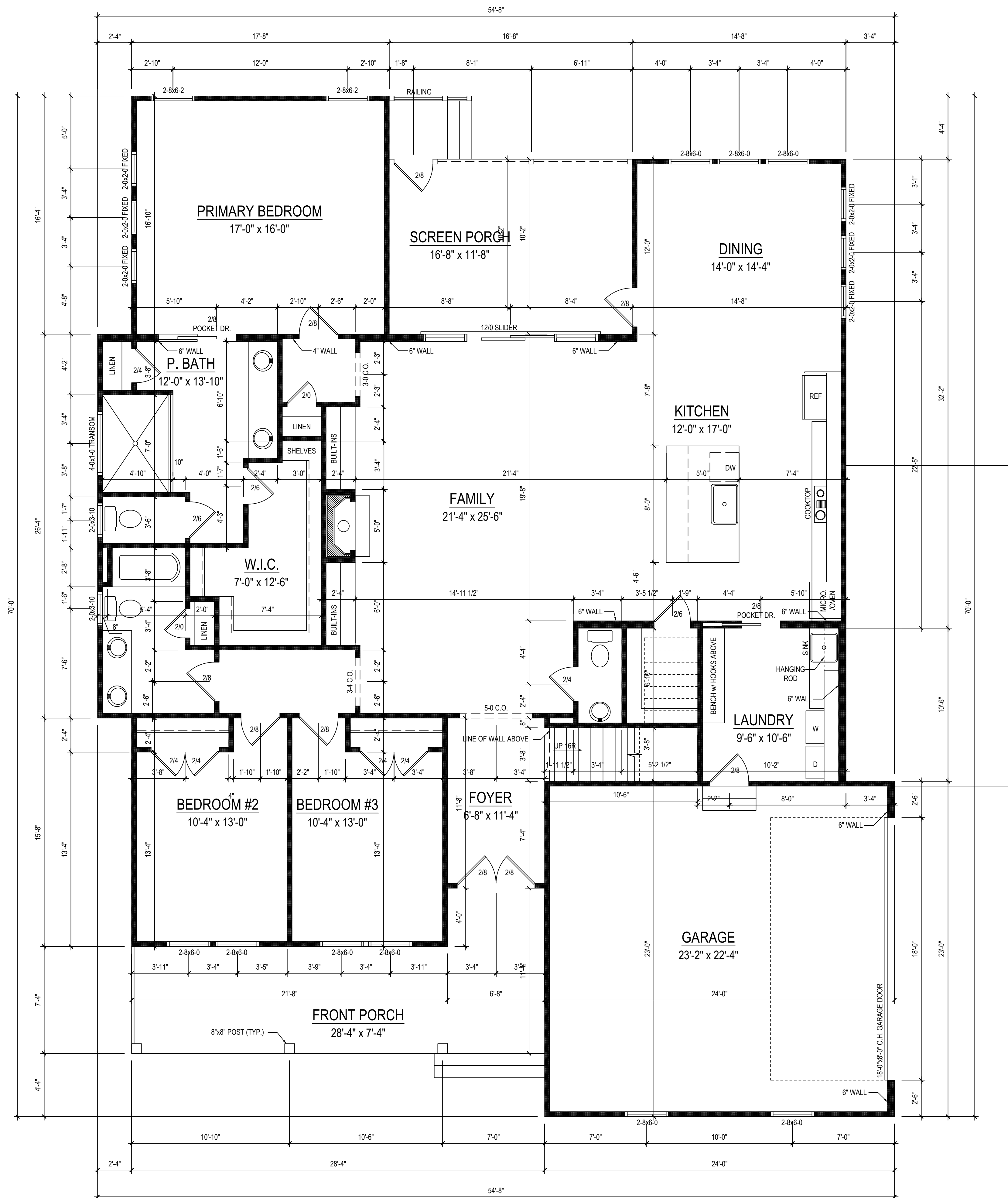
Email: Kent@KandAHomeDesigns.com

Project Name:
**Lot 33,
Cotton Farms**

Client Name:
**Prewitt-Douglas Custom
Homes, INC.**
2500 Regency Parkway
Cary, NC 27518

ELEVATIONS

Sheet Number
1
of 3



FIRST FLOOR PLAN

1/4" = 1'-0" CEILING HT. = 9'-0"

Project #	24-266
Date	8-26-24
Drawn/Design By	KBB
Scale	1/4" = 1'-0"

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

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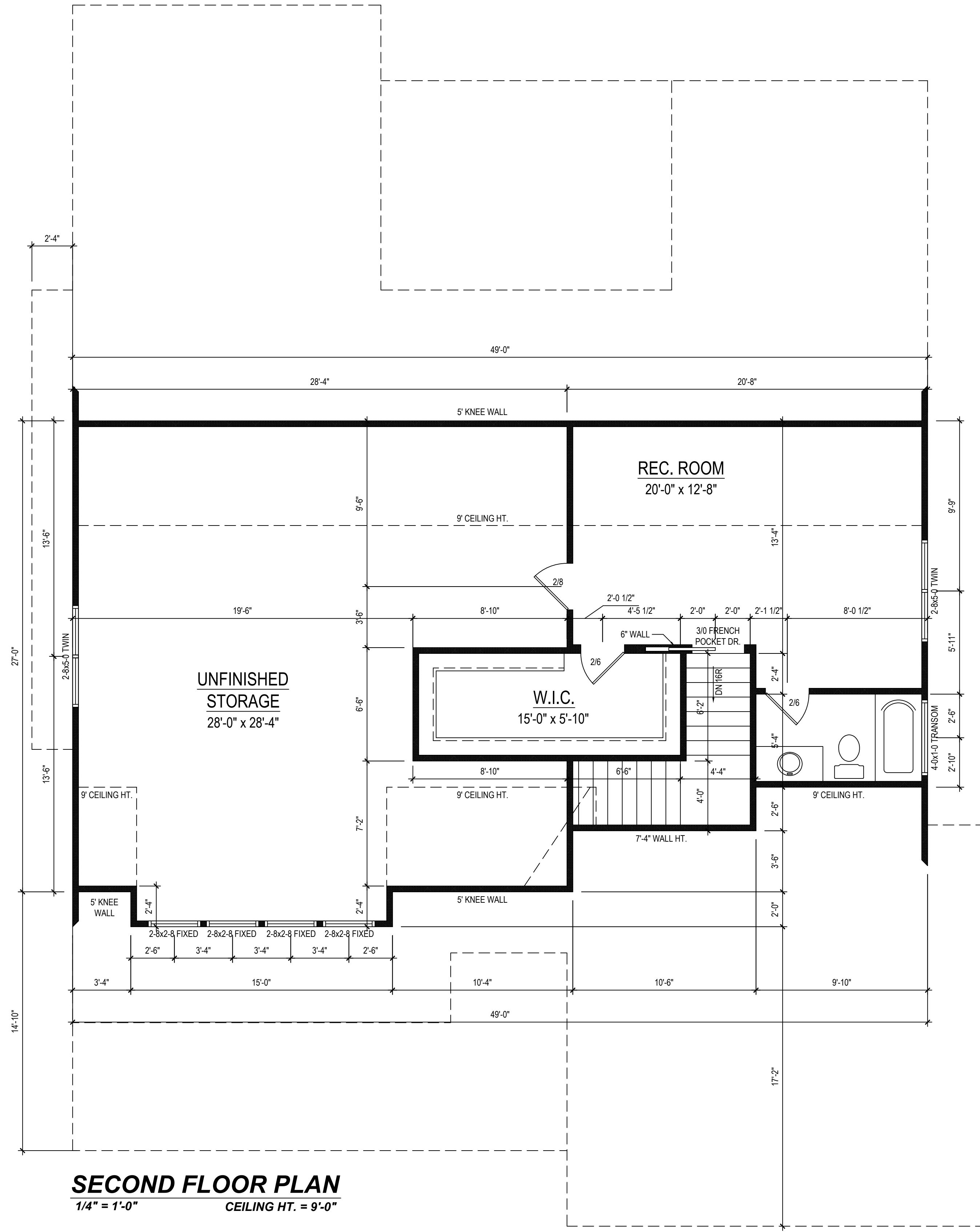
Email: Kent@KandHomeDesigns.com

**Lot 33,
Cotton Farms**

**Prewitt-Douglas Custom
Homes, INC.**
2500 Regency Parkway
Cary, NC 27518

FIRST FLOOR

Sheet Number
2
of 3



SECOND FLOOR PLAN
 1/4" = 1'-0" CEILING HT. = 9'-0"

Project #:	24-266
Date:	8-26-24
Drawn/Design By:	KBB
Scale:	1/4" = 1'-0"

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

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Email: Kent@KandAHomeDesigns.com Website: www.KandAHomeDesigns.com

Project Name:
**Lot 33,
 Cotton Farms**

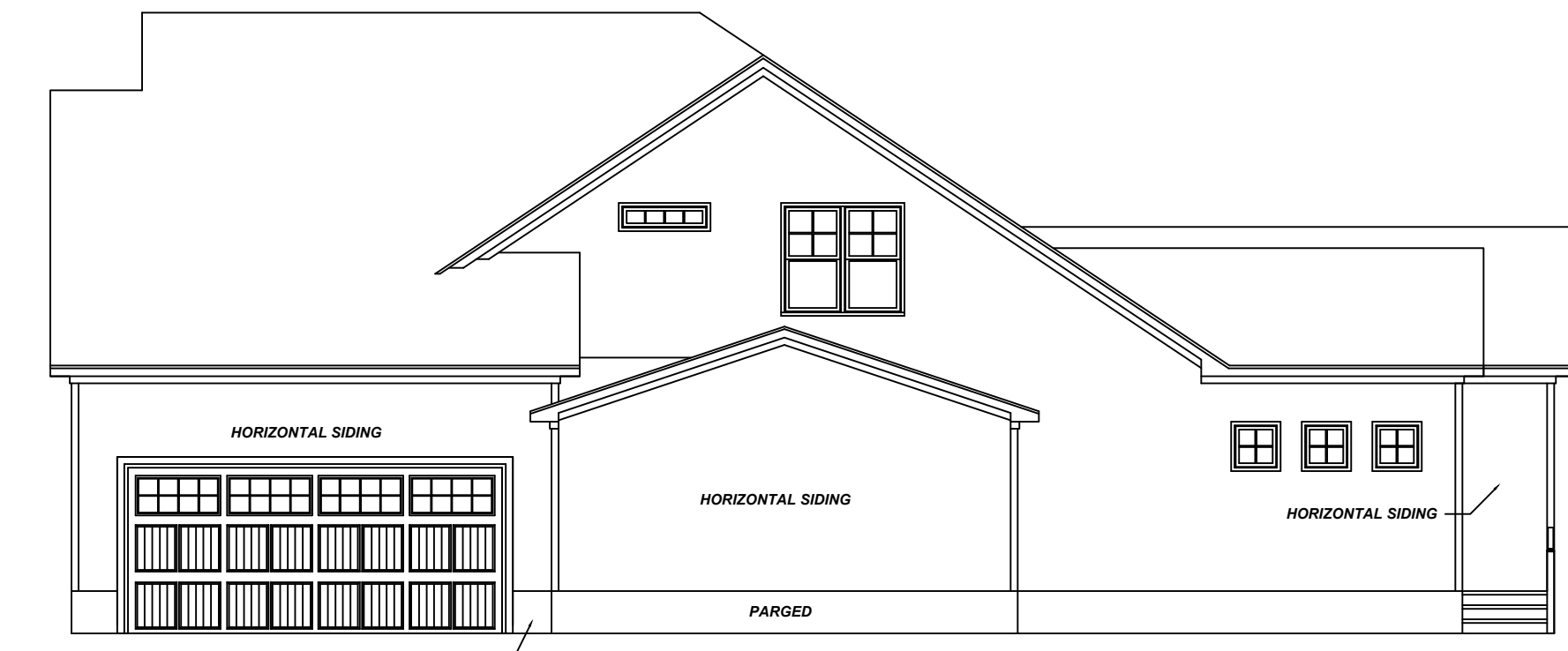
Client Name:
**Prewitt-Douglas Custom
 Homes, INC.**
 2500 Regency Parkway
 Cary, NC 27518

SECOND FLOOR

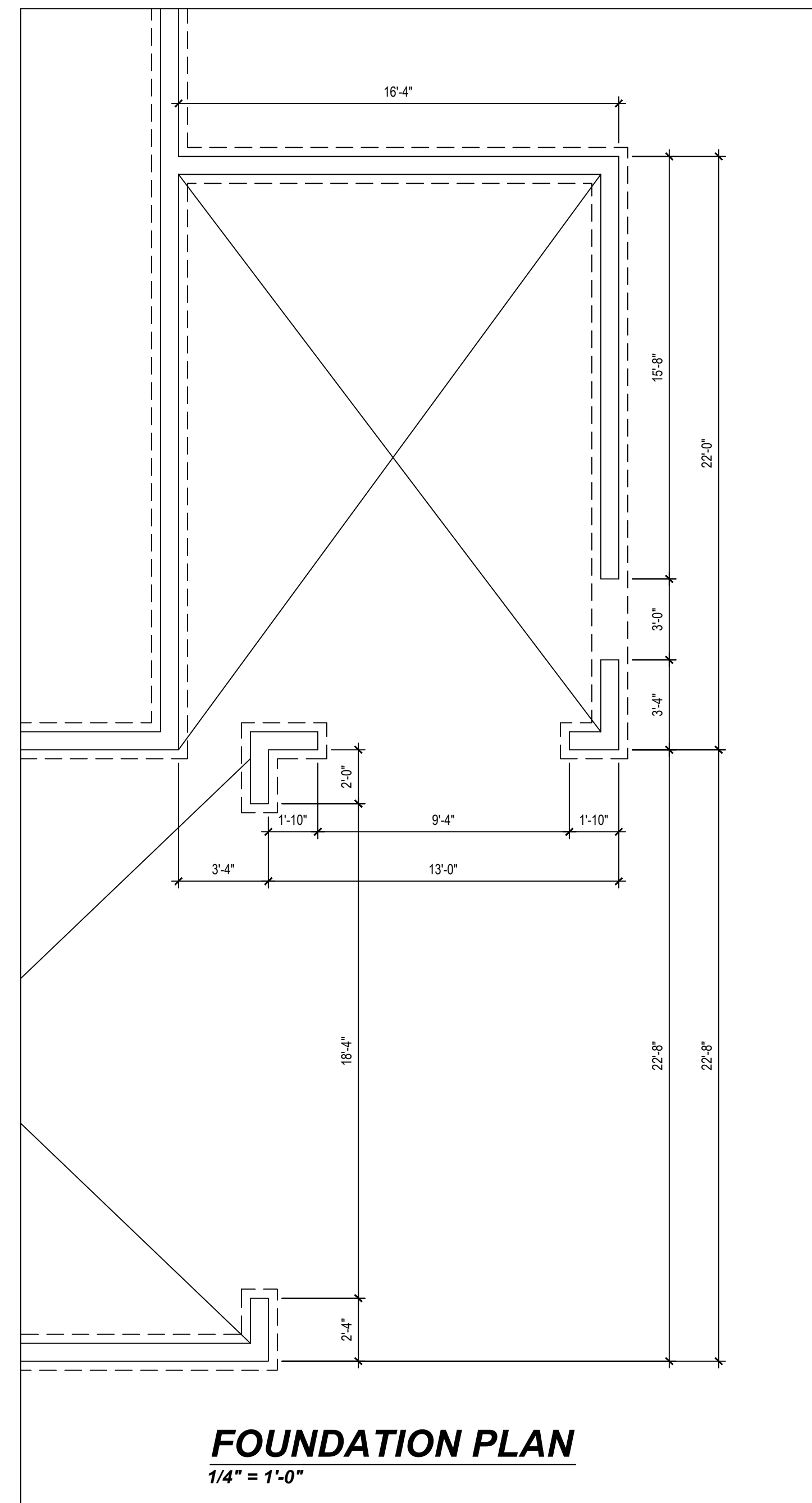
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 of 3



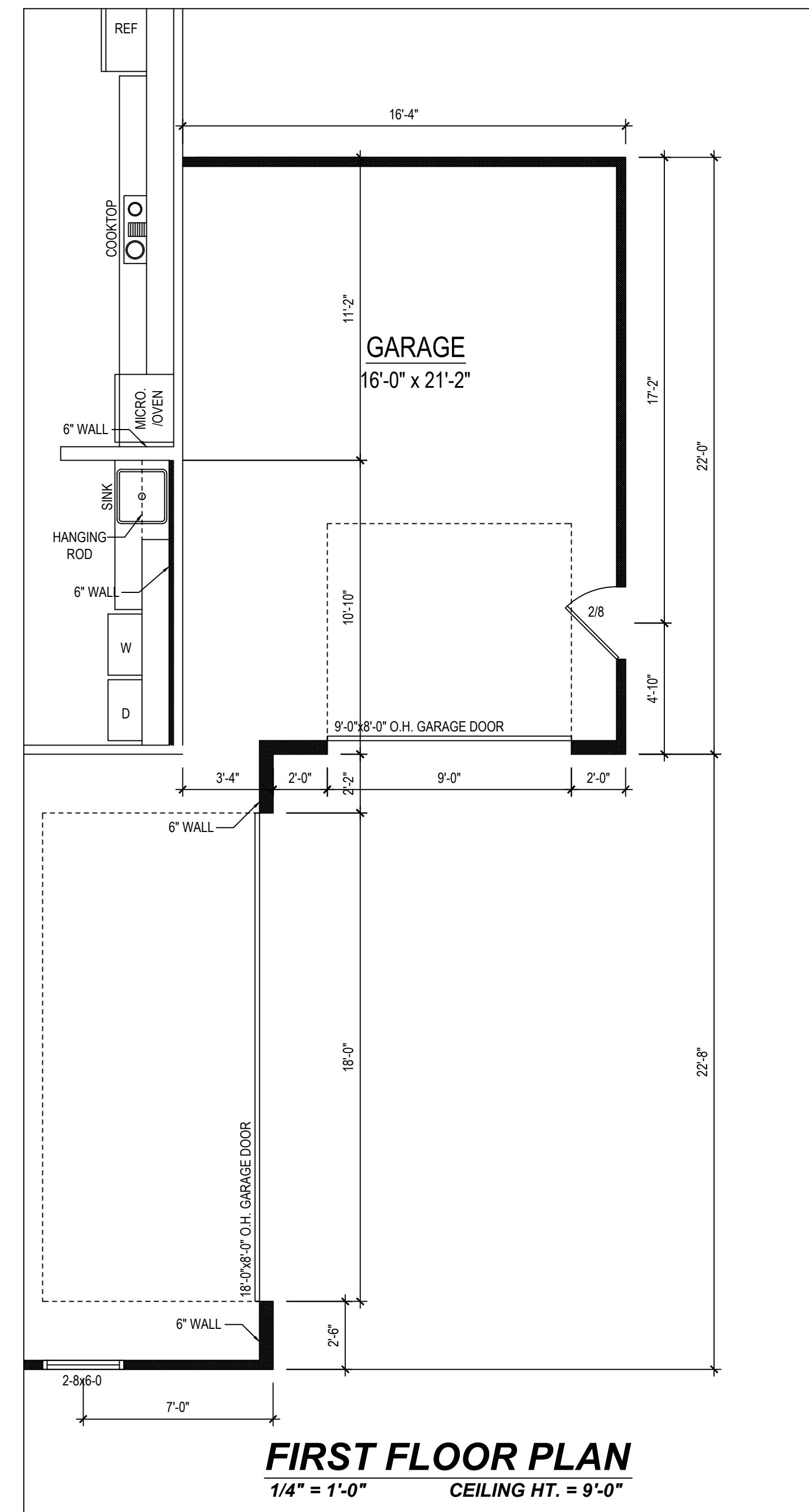
FRONT ELEVATION
1/4" = 1'-0"



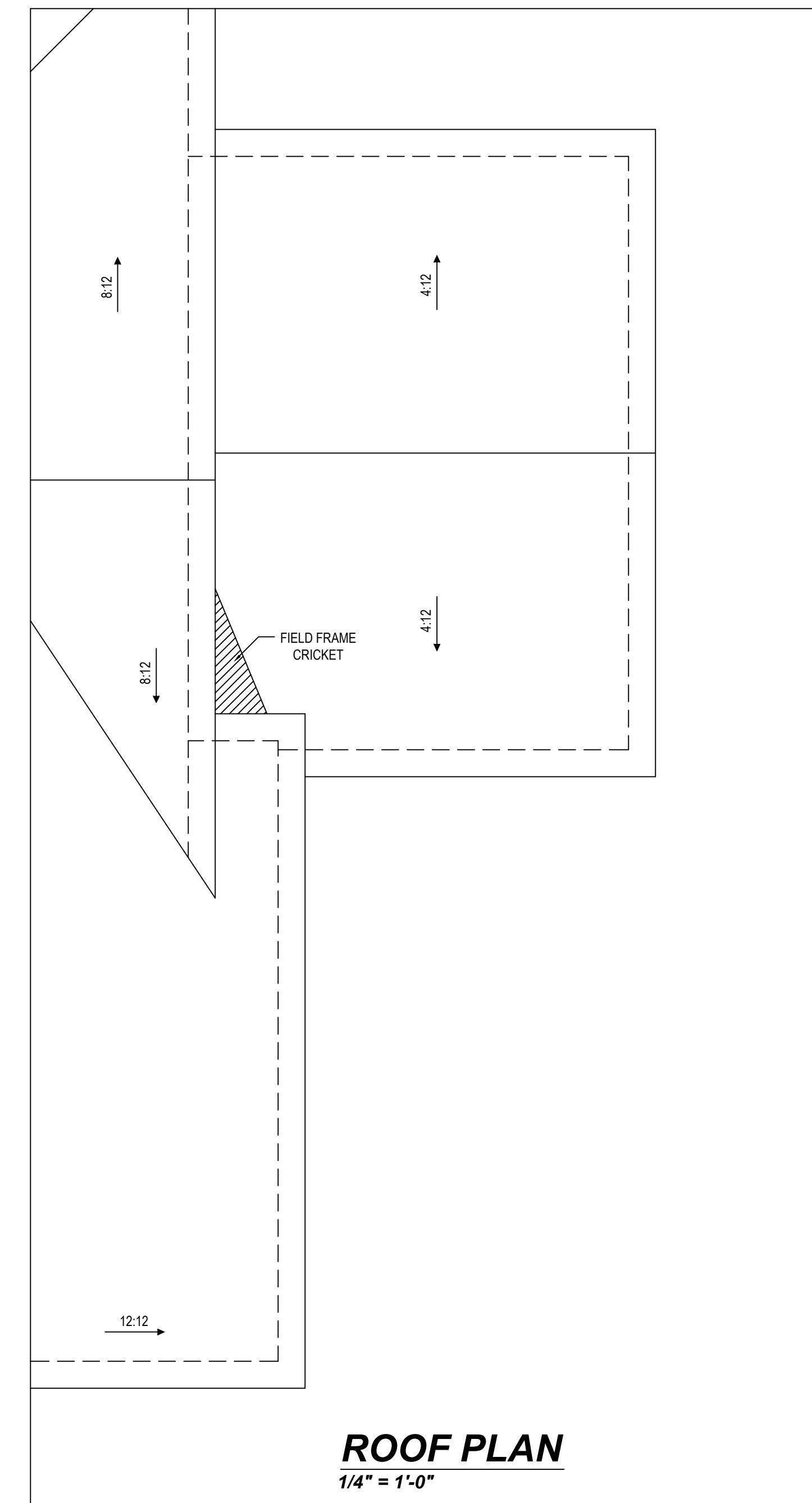
RIGHT ELEVATION
1/8" = 1'-0"



FOUNDATION PLAN
1/4" = 1'-0"



FIRST FLOOR PLAN
1/4" = 1'-0" CEILING HT. = 9'-0"



ROOF PLAN
1/4" = 1'-0"

Project #:	24-266
Date:	11-21-24
Drawn/Design By:	KBB
Scale:	REFER TO PLAN

REVISIONS		
No.	Date	Remarks
1		
2		
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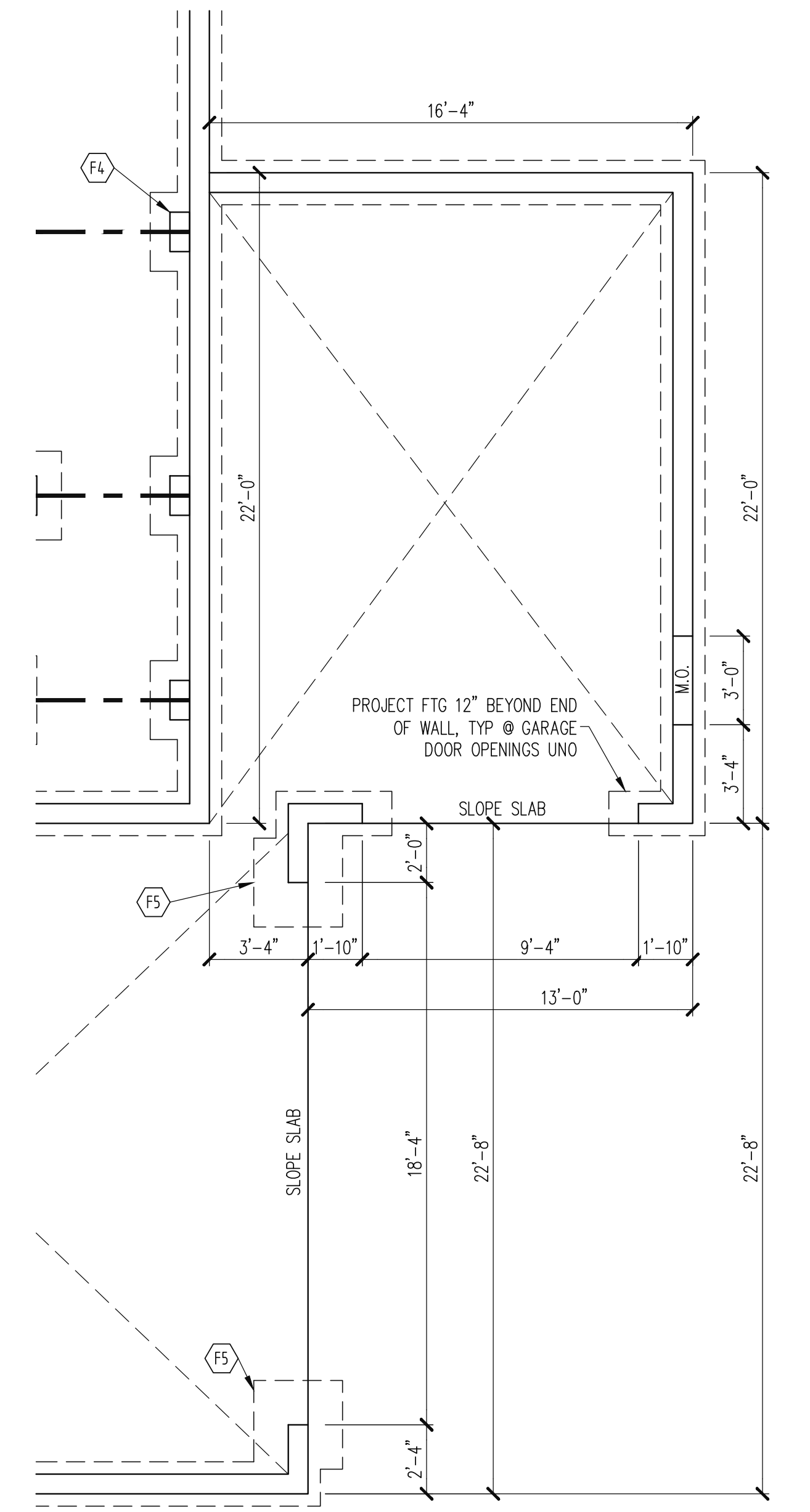
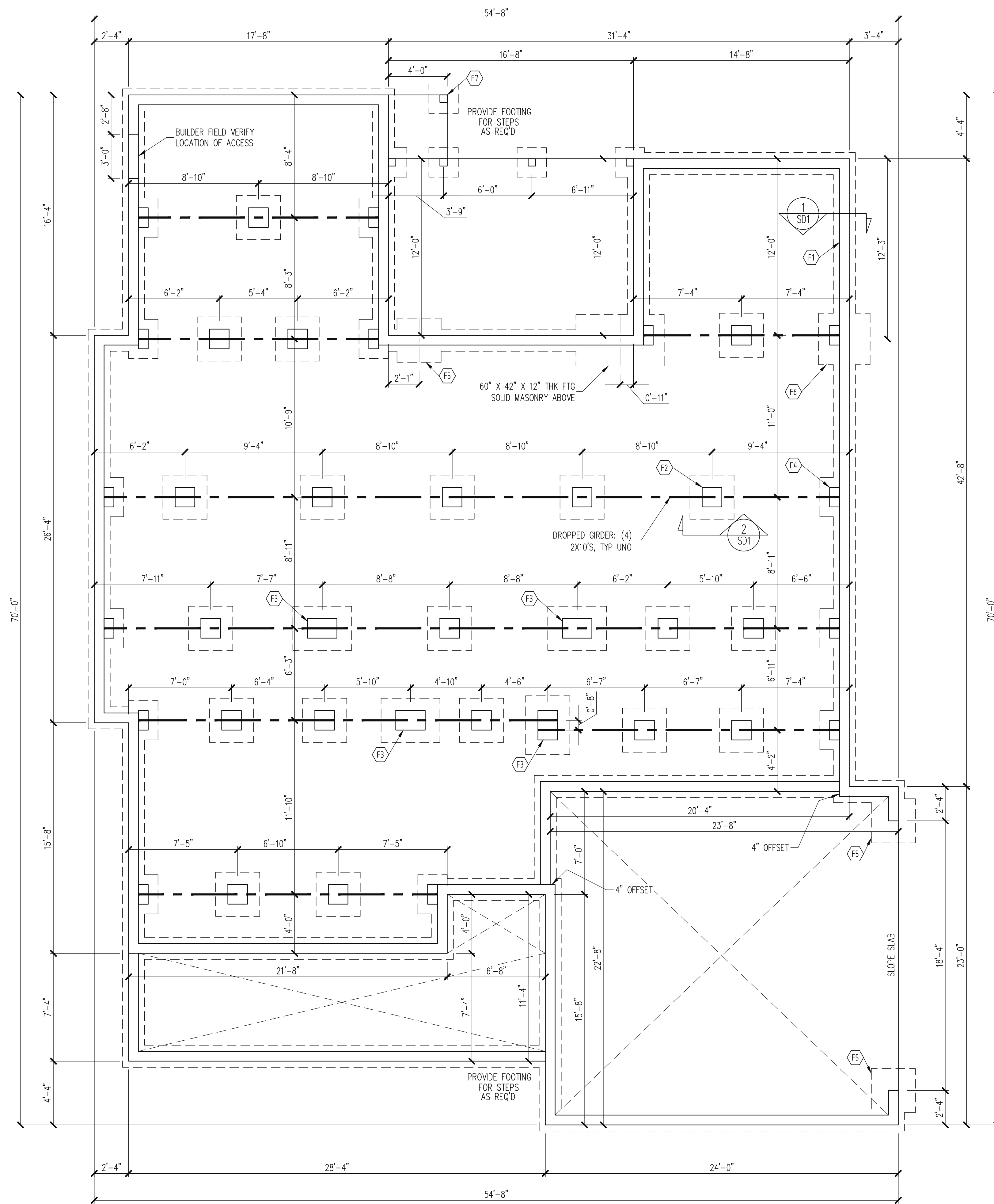
Website: www.KandAHomeDesigns.com
Email: Kent@KandAHomeDesigns.com

Project Name:
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Cotton Farms**

Client Name:
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2500 Regency Parkway
Cary, NC 27518

THIRD CAR OPTION

Sheet Number
1
of 1



FOUNDATION PLAN
OPTIONAL 3RD CAR GARAGE
 1/4" = 1'-0"

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

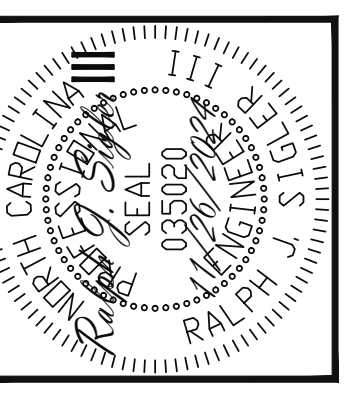
CONSTRUCTION SPECIFICATIONS
 INSTANT REFERENCES
 REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:
 PART 1.01: CURRENT GOVERNING CODE
 PART 14: STUD SUPPORT FOR BEAMS
 PART 17: KING STUDS FOR EXTERIOR WALLS
 SEE DETAIL / CONSTRUCTION SPECIFICATIONS SHEETS FOR 1-JOISTS ALLOWABLE SUBSTITUTIONS

FOUNDATION SCHEDULE

F1	8" THK MASONRY END WALL ON A 18" X 8" THK CONC POUR CONC FTG, TYP UNO.
F2	16" SQ. MASONRY PIER ON A 36" X 10" THK CONC FTG TYP UNO.
F3	24" X 16" MASONRY PIER ON A 48" X 36" X 12" THK CONC FTG
F4	8" X 16" CMU PILASTER, PROJECT FTG 8" X 8" THK, TYP UNO
F5	ENLARGE FOOTING TO 36" SQ. X 12" THK. SOLID MASONRY ABOVE.
F6	ENLARGE FOOTING TO 42" SQ. X 12" THK. SOLID MASONRY ABOVE.
F7	PT 6X6 POST ON A 24" SQ. X 10" THICK POURED CONC FOOTING TYP @ DECK. SEE DECK SPECS FOR REQUIRED BRACING.

FOUNDATION PLAN
 1/4" = 1'-0"

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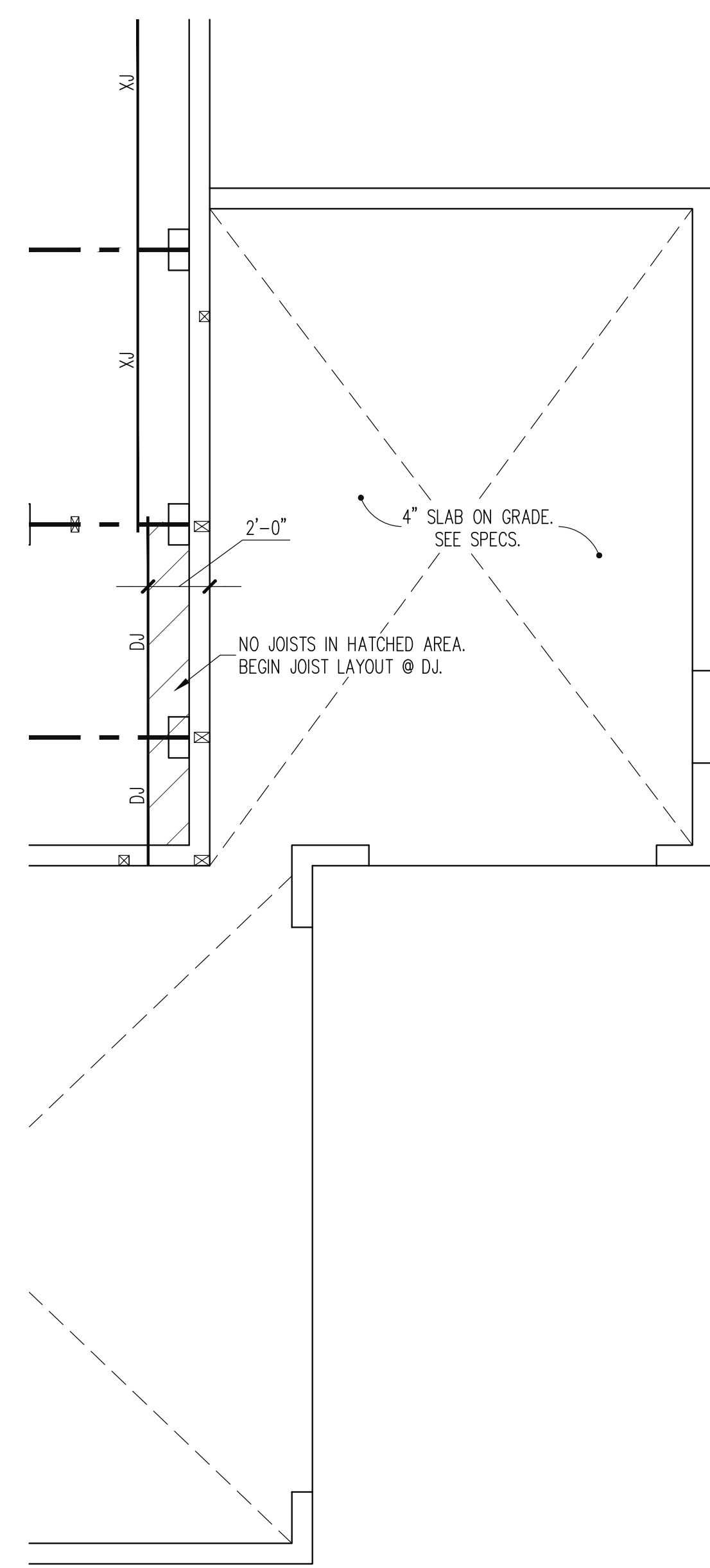
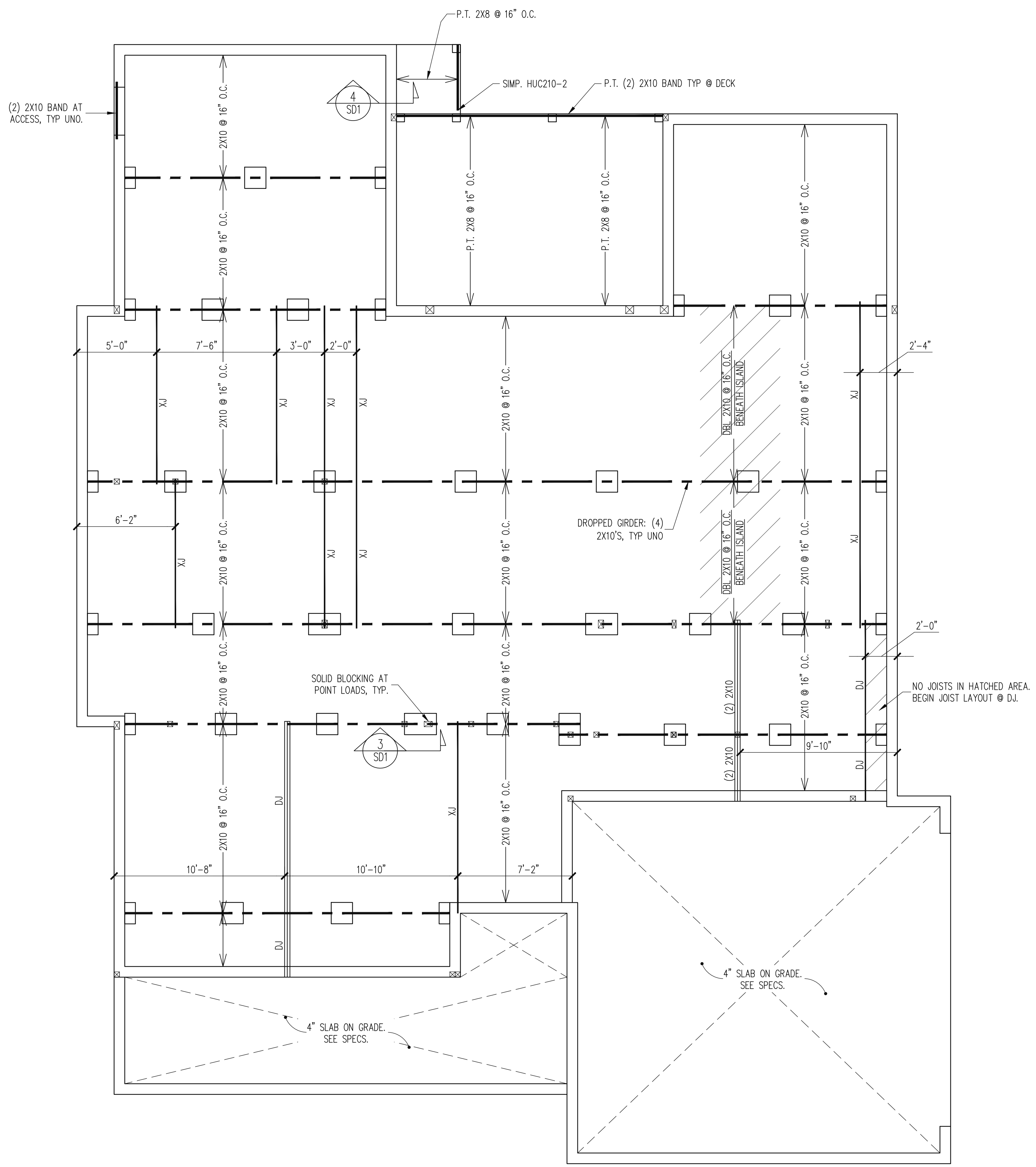
PREWITT DOUGLAS
STRUCTURAL ADDENDUM
SCOPE: 33 COTTON FARMS
LOC: 33 COTTON FARMS
REV # / REF PROJ # / DATE

ENG: RJS/ZCH
DATE: 11/26/2024

PLAN
24-266

PROJECT NO.
24-65-295_500

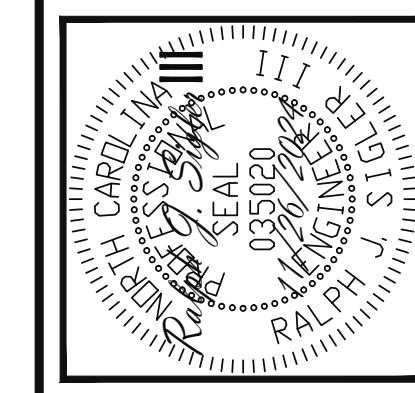
SHEET NO.
S1
 1 of 7



CRAWLSPACE FRAMING PLAN
 OPTIONAL 3RD CAR GARAGE
 1/4" = 1'-0"

CRAWLSPACE FRAMING PLAN
 1/4" = 1'-0"

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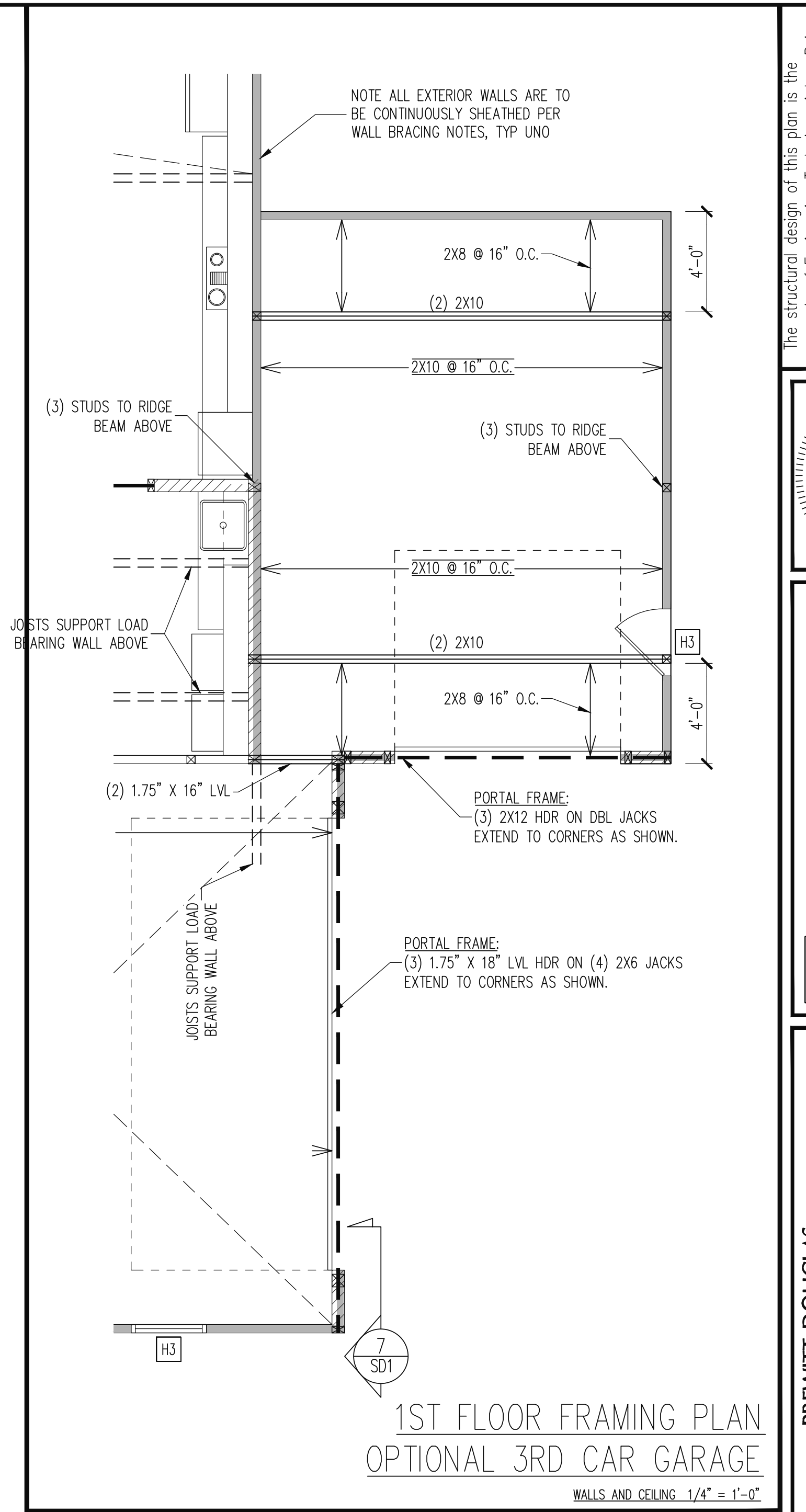
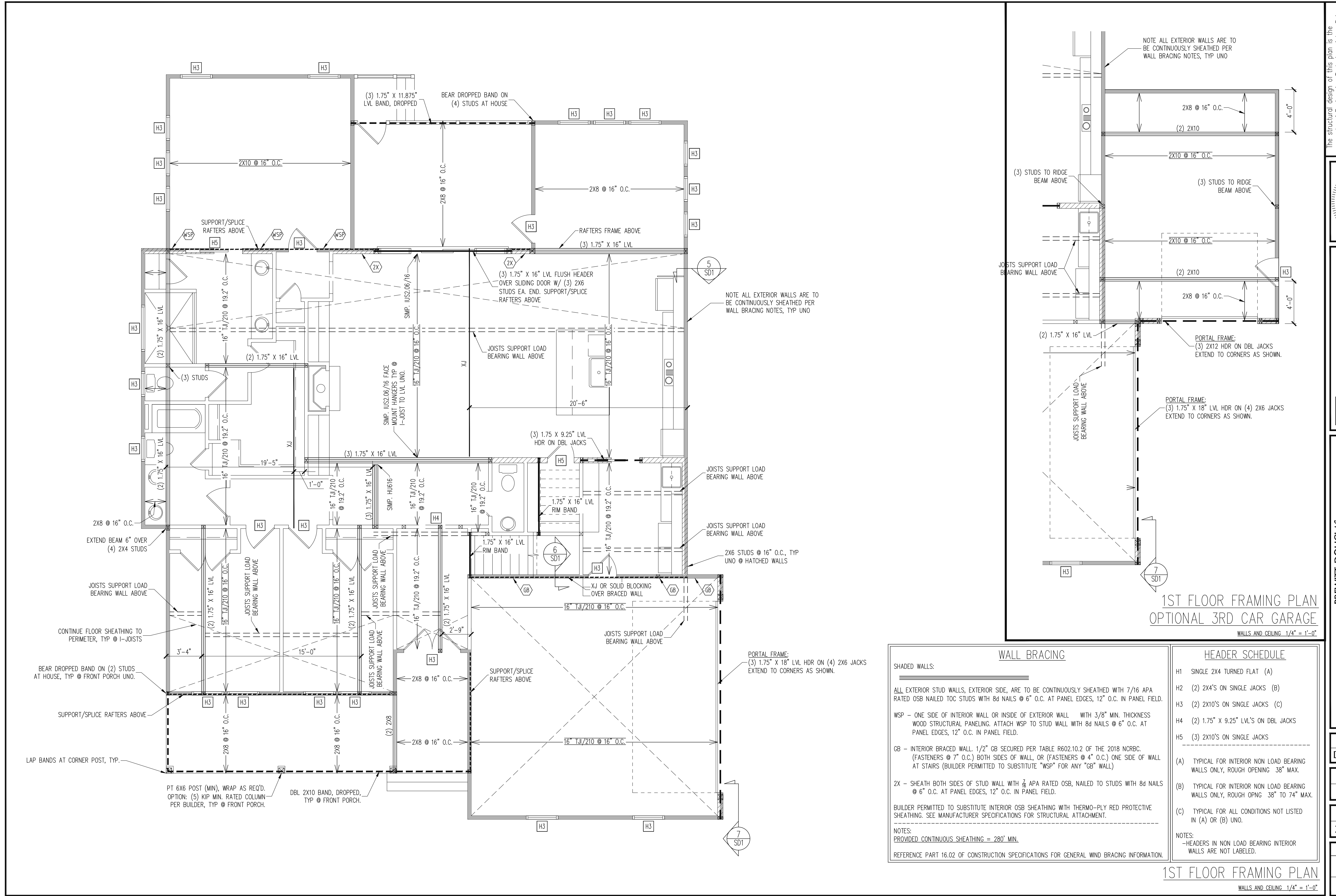
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STRUCTURAL ADDENDUM			
SCOPE:			
LOC:			
33 COTTON FARMS			

ENG: RJS/ZCH
 DATE: 11/26/2024

PLAN
 24-266

PROJECT NO.
 24-65-295_500

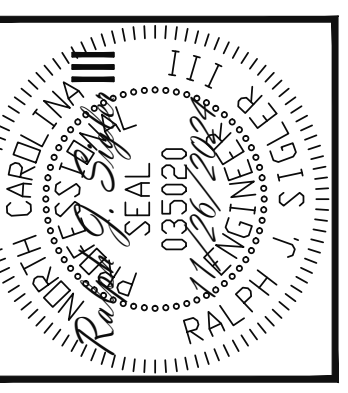
SHEET NO.
 S2
 2 of 7



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\"/>	

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	(1) 1.75\"/>

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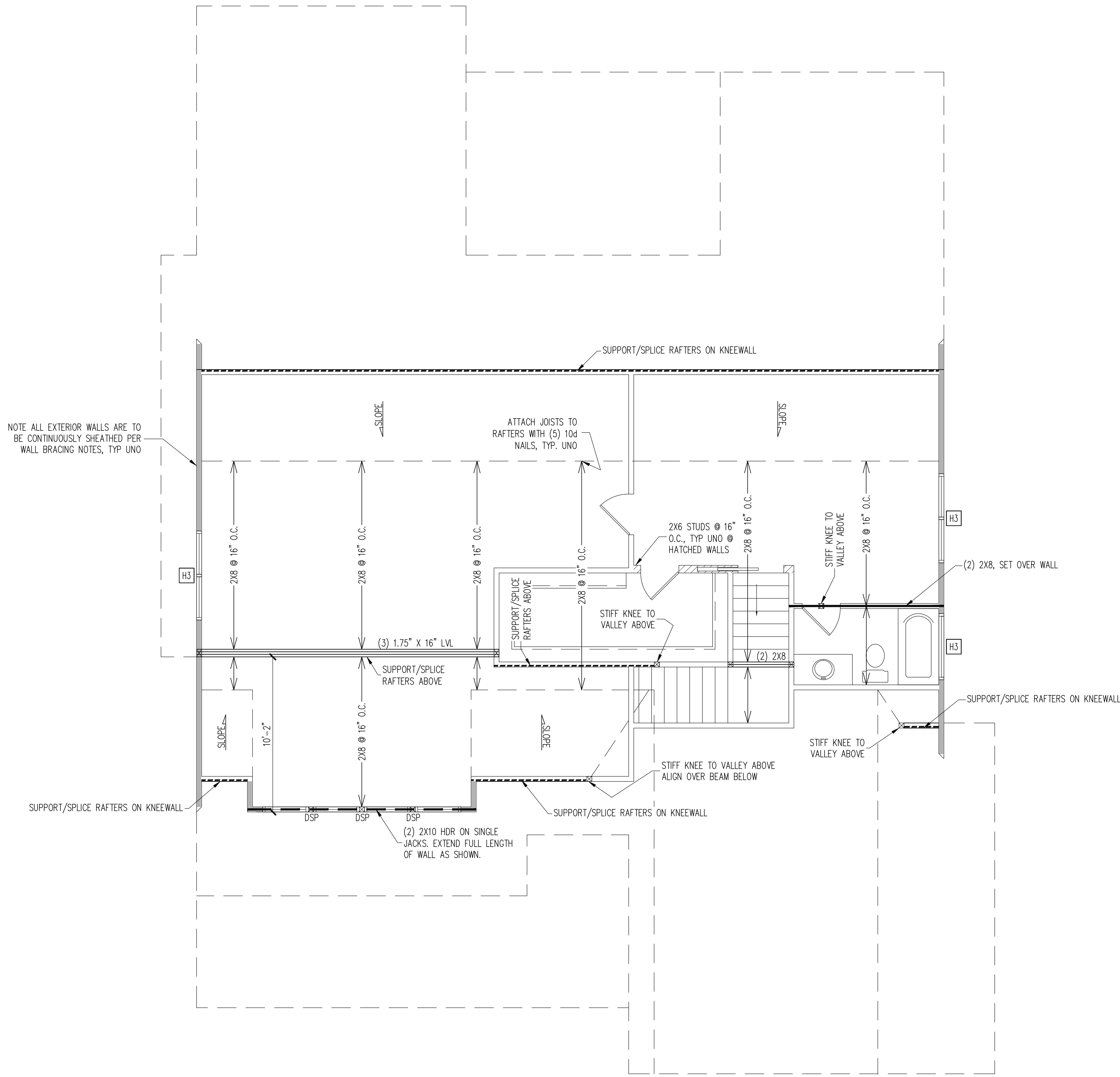
PREWITT DOUGLAS	
SCOPE:	STRUCTURAL ADDENDUM
LOC:	33 COTTON FARMS
REV #	REF PROJ #
DATE	

ENG: RJS/ZCH
 DATE: 11/26/2024

PLAN
 24-266

PROJECT NO.
 24-65-295_500

SHEET NO.
 S3
 3 of 7



NOTE: ALL EXTERIOR WALLS ARE TO BE CONTINUOUSLY SHEATHED PER WALL BRACING NOTES, TYP UNO

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 = 75' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

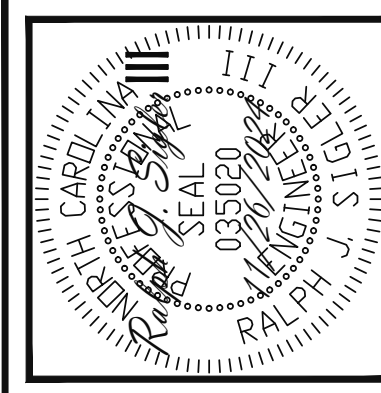
HEADER SCHEDULE

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

NOTES:
-HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

2ND FLOOR FRAMING PLAN
WALLS AND CEILING: 1/4" = 1'-0"

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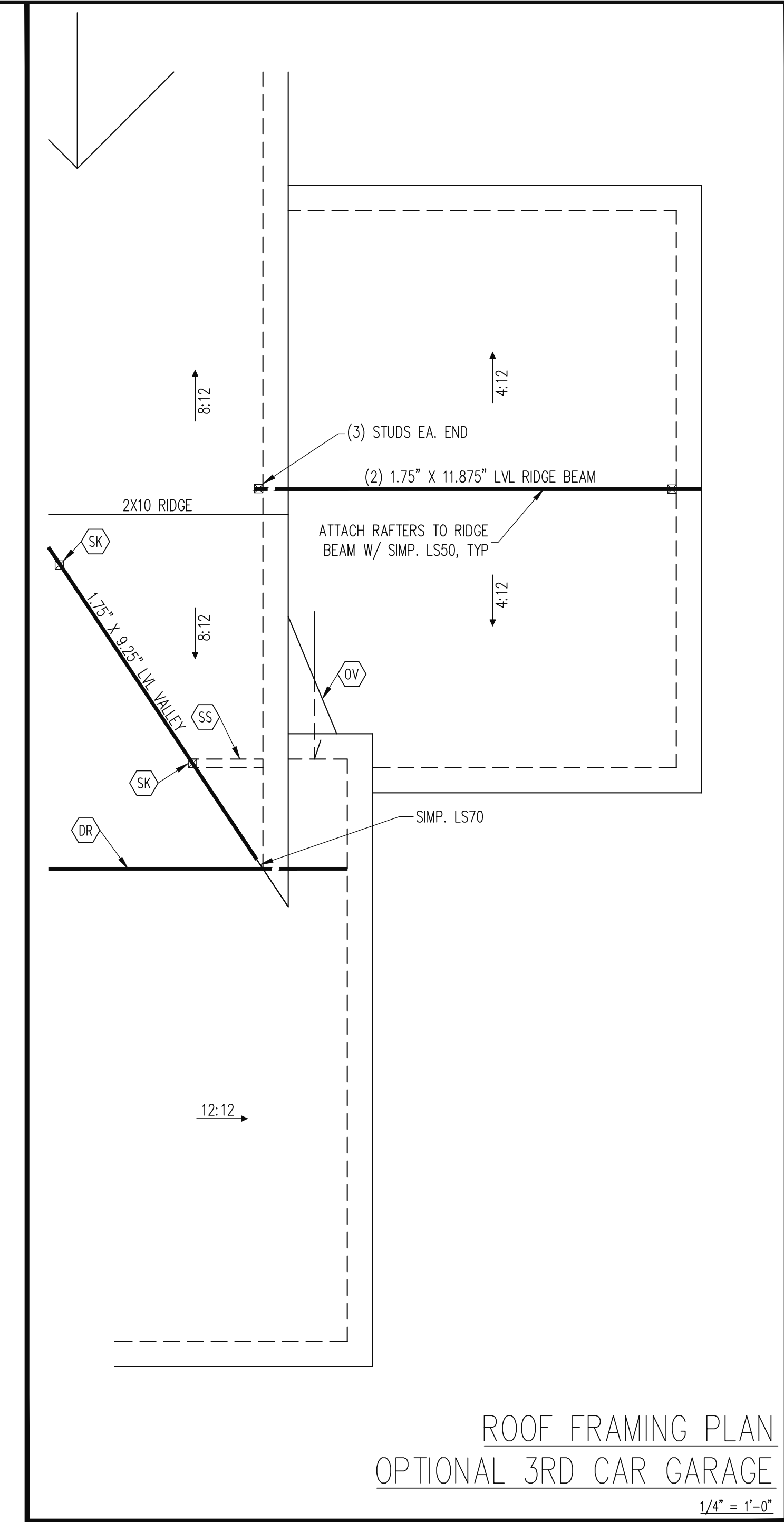
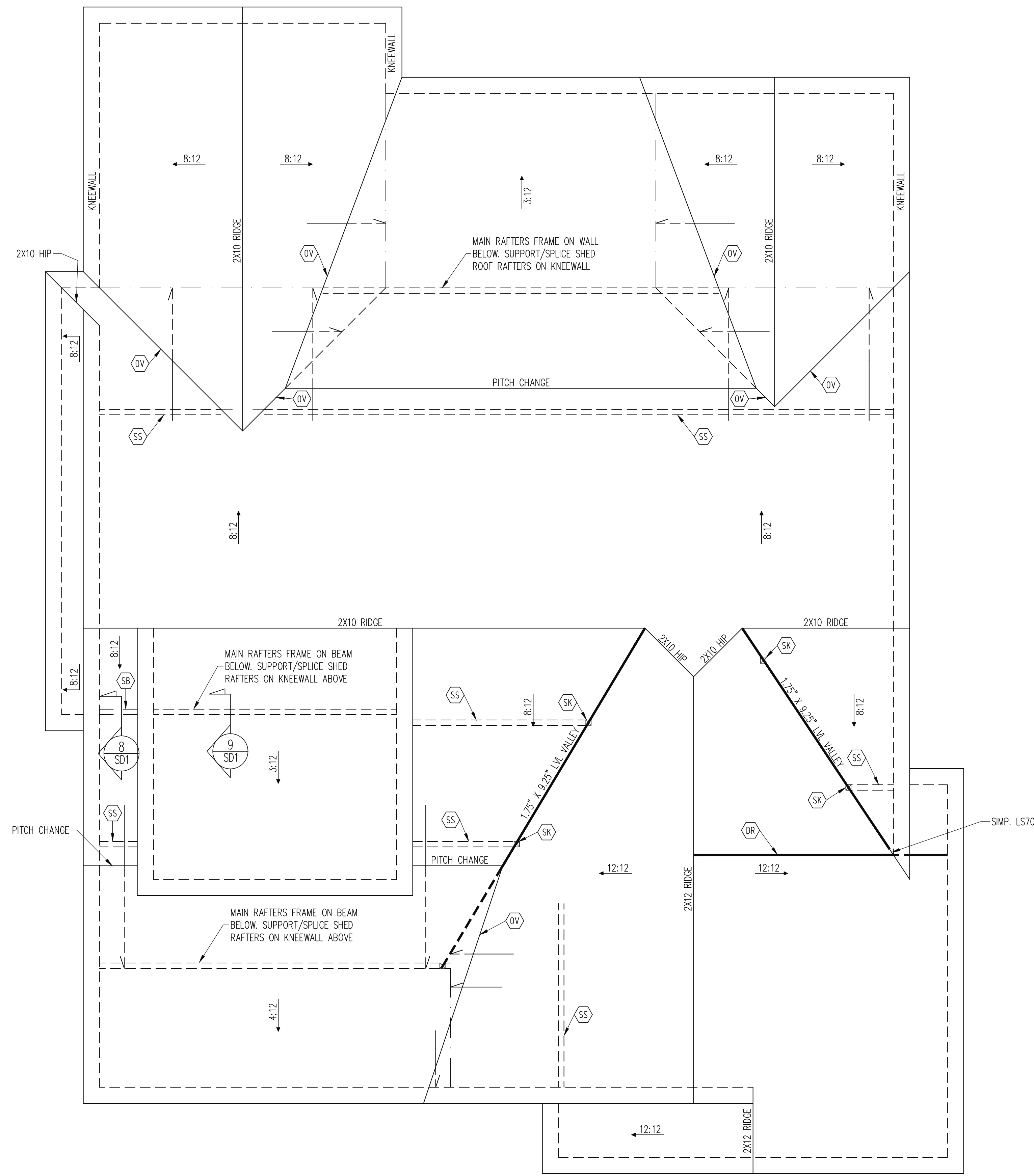
SCOPE:	PREWITT DOUGLAS
	STRUCTURAL ADDENDUM
LOC:	33 COTTON FARMS
REV #	REF PROJ #
DATE	DATE

ENG: RJS/ZCH
DATE: 11/26/2024

PLAN
24-266

PROJECT NO.
24-65-295_500

SHEET NO.
S4
4 of 7



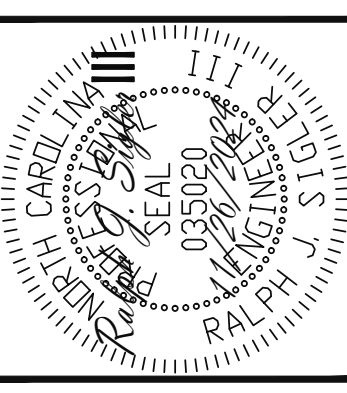
ROOF FRAMING PLAN
 OPTIONAL 3RD CAR GARAGE
 1/4" = 1'-0"

FRAMING NOTES
 ROOF ONLY
 --COMMON RAFTERS 2X8 @ 16" O.C. TYP. U.N.O.
 --COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP. U.N.O.
 --ROOF PITCHES 12:12 TYP. U.N.O.
 --VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

FRAMING SCHEDULE
 ROOF ONLY
 DR DOUBLE RAFTER
 OV OVERFRAME VALLEY (2X10 SLEEPER)
 SB SUPPORT/SPLICE RAFTERS ON BEAM BELOW
 SK DBL 2X4 STIFF KNEE
 SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW

ROOF FRAMING PLAN
 1/4" = 1'-0"

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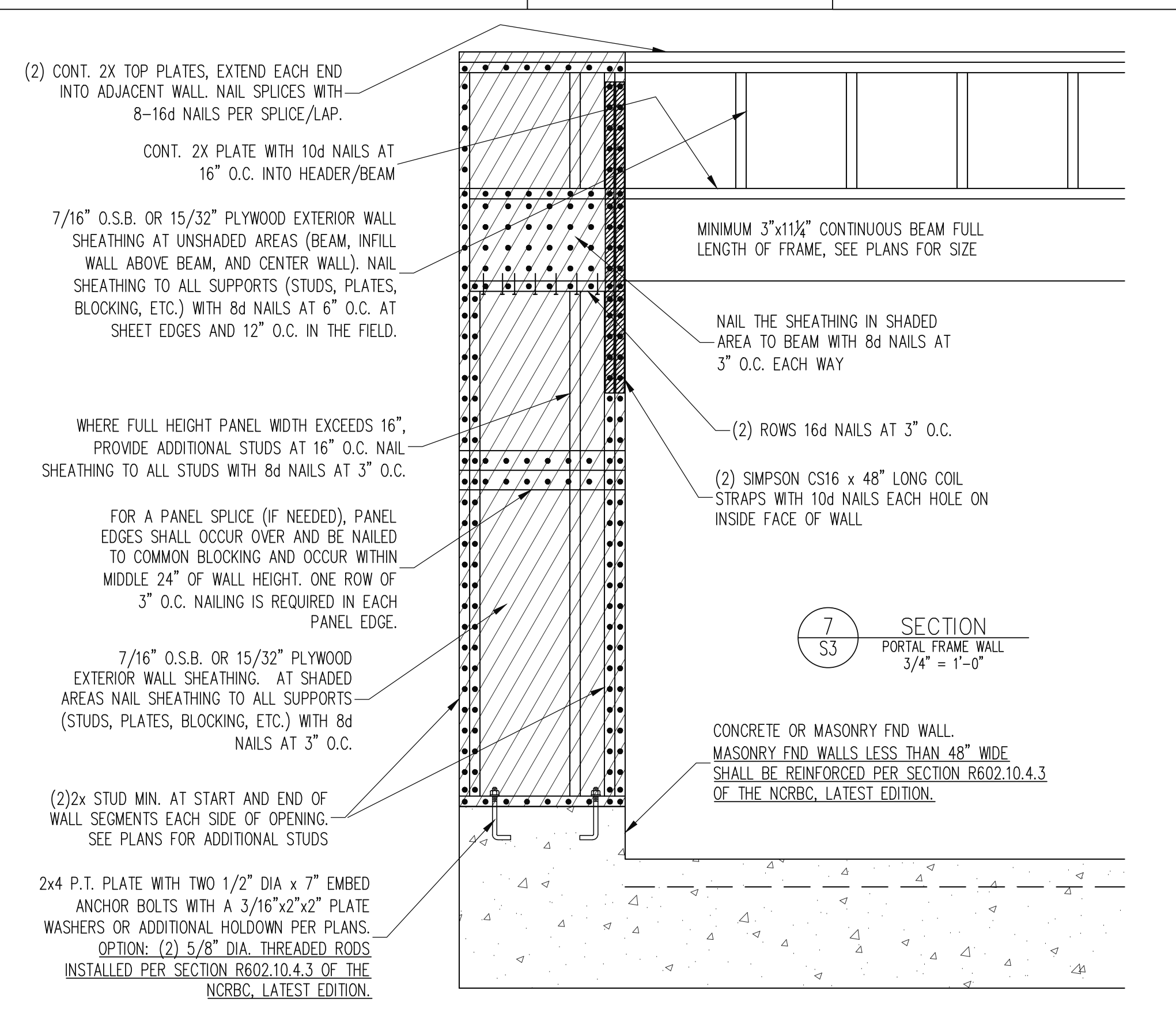
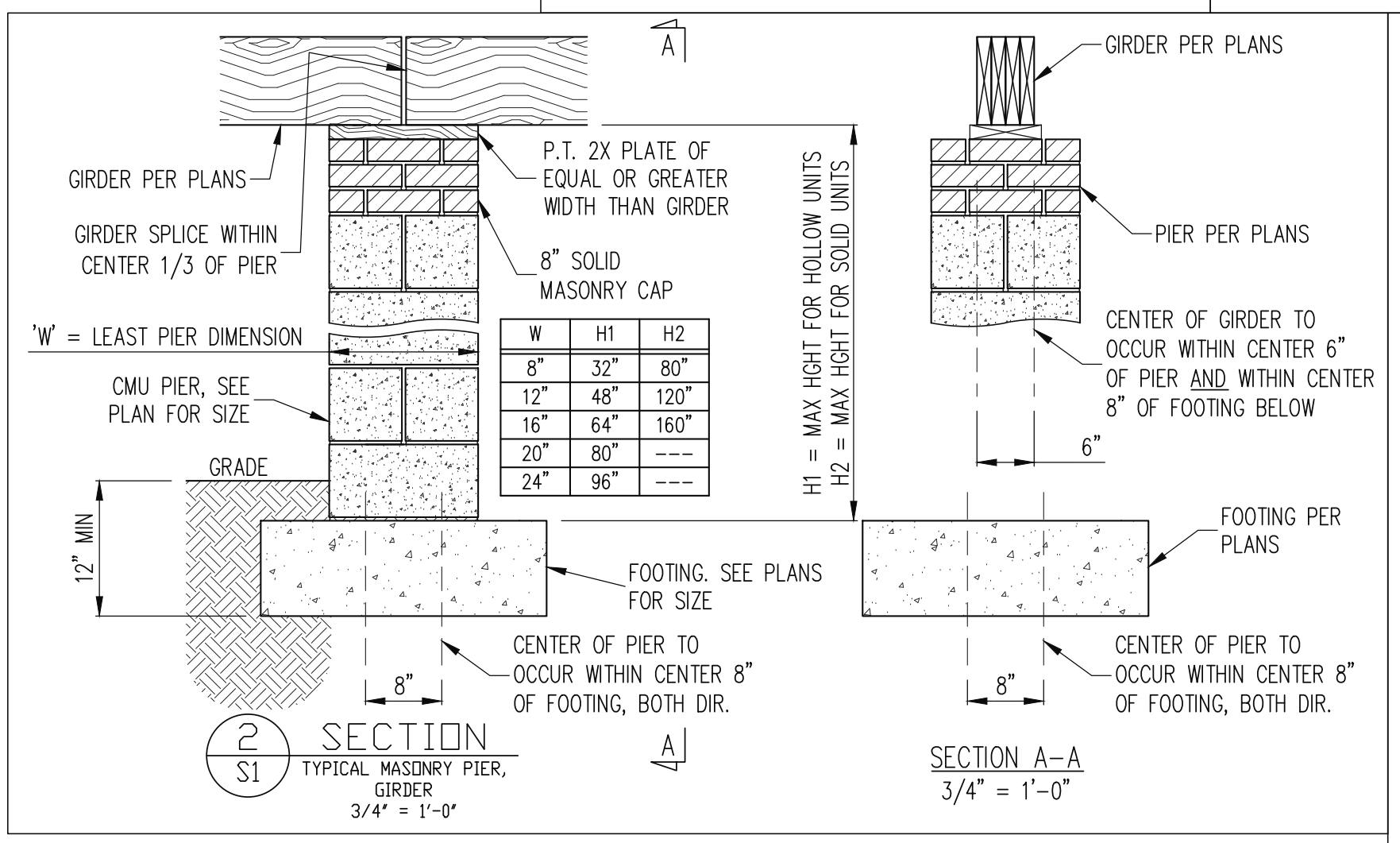
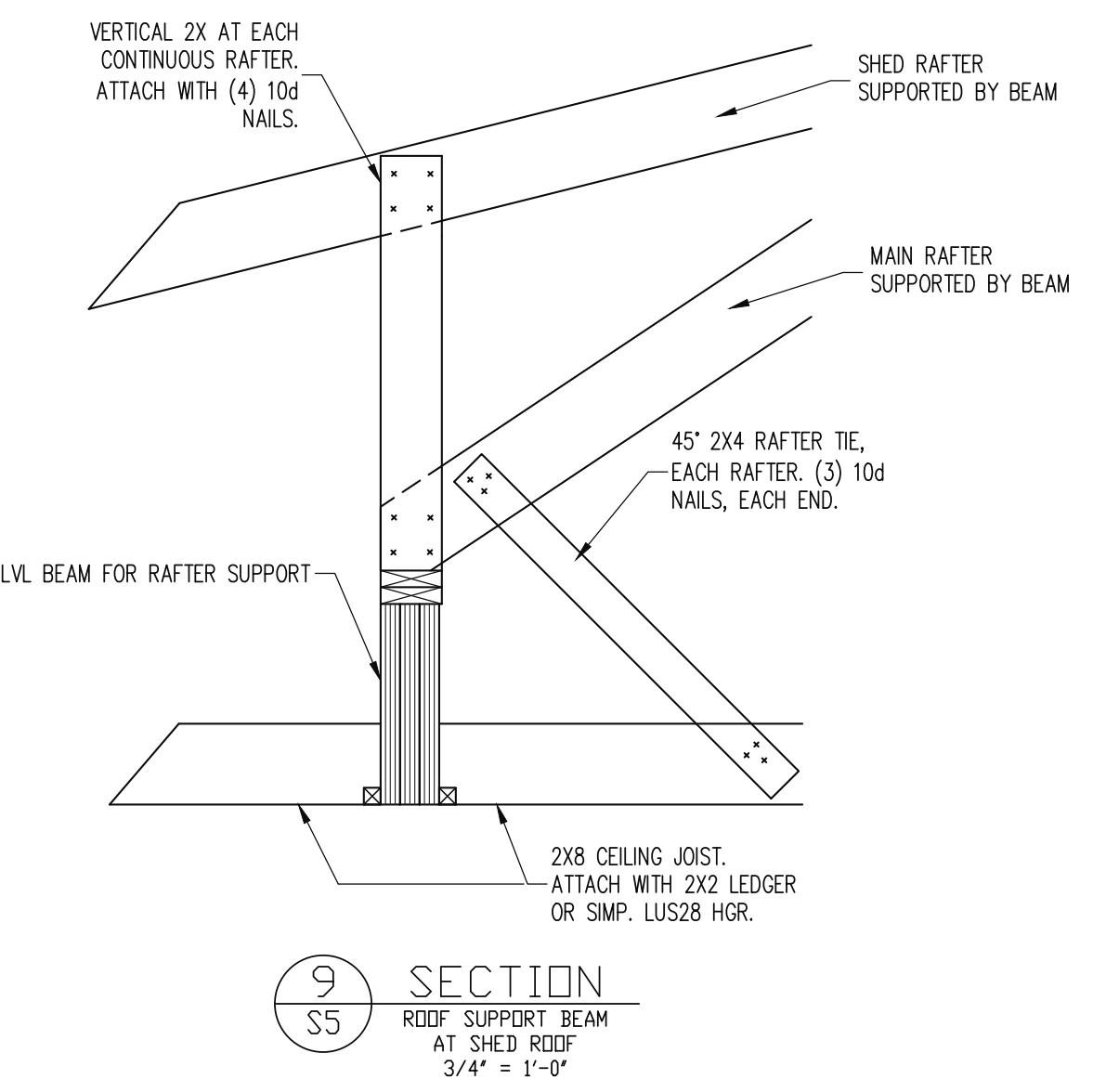
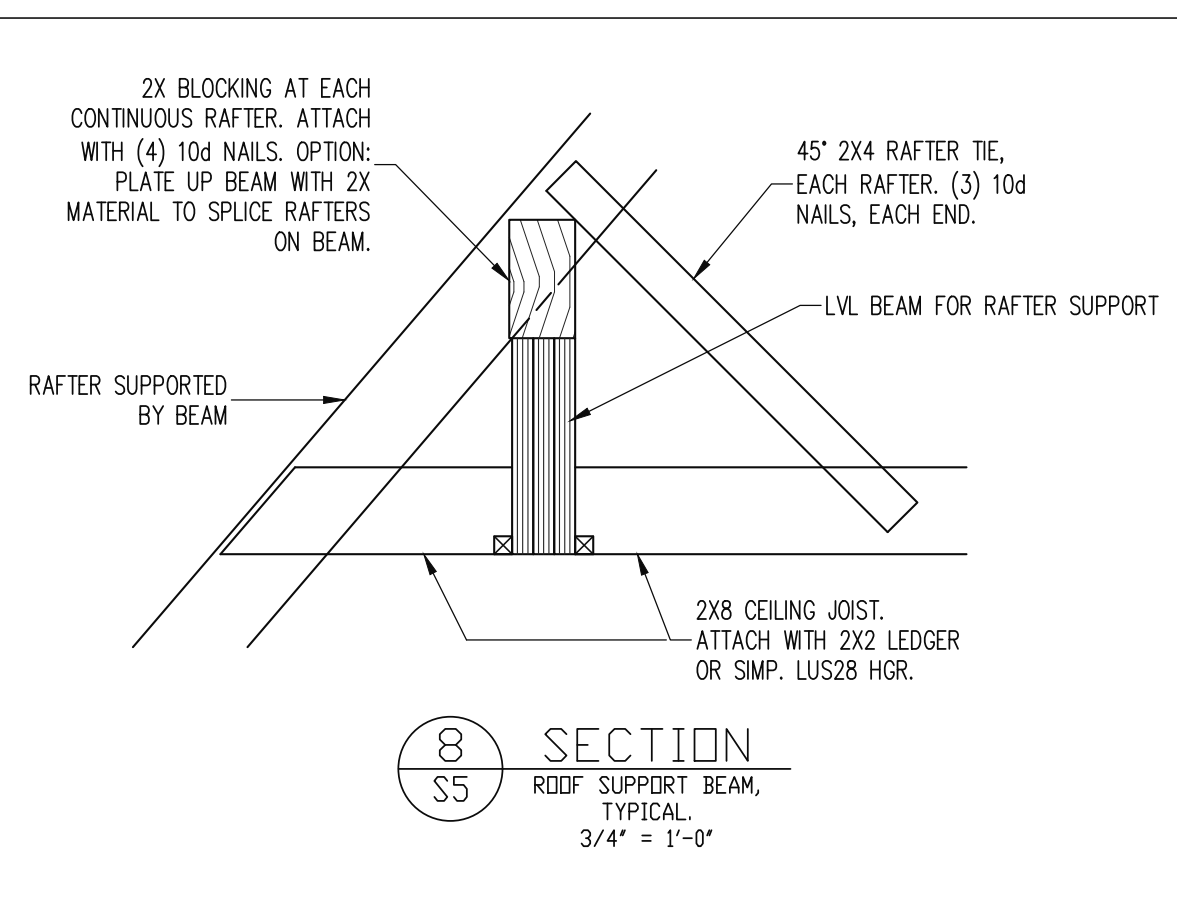
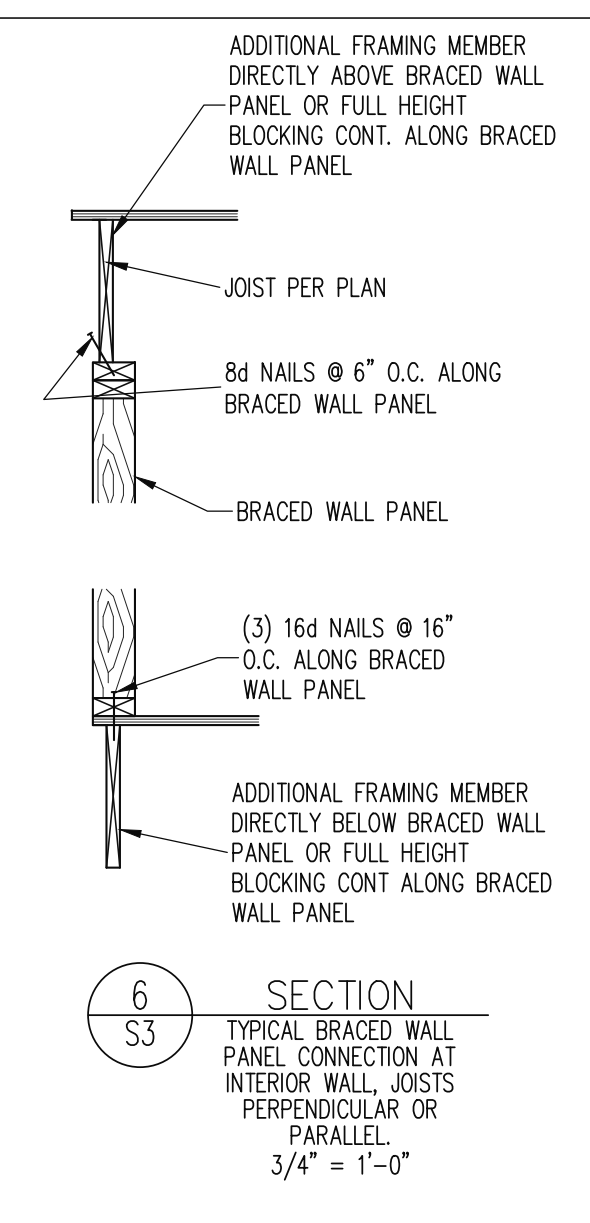
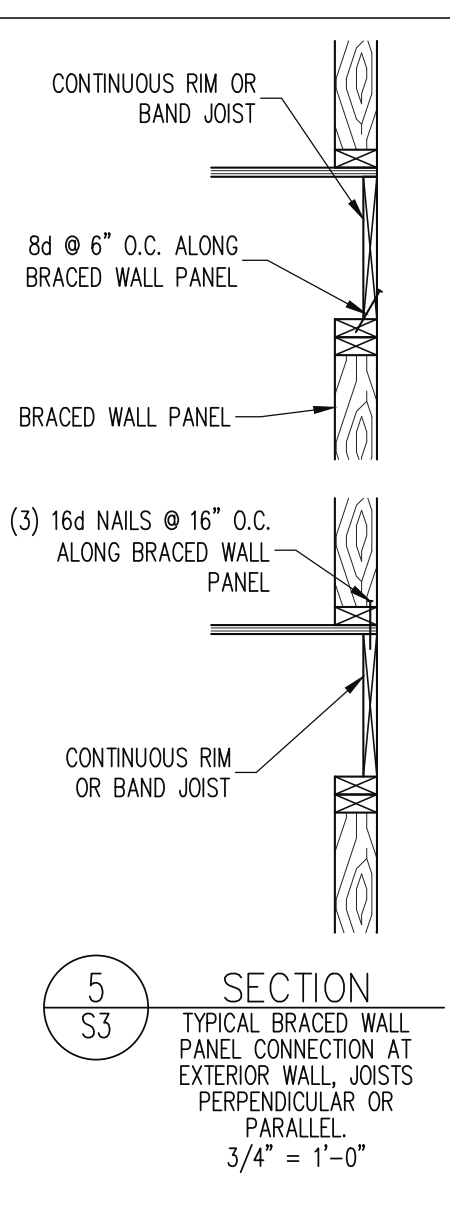
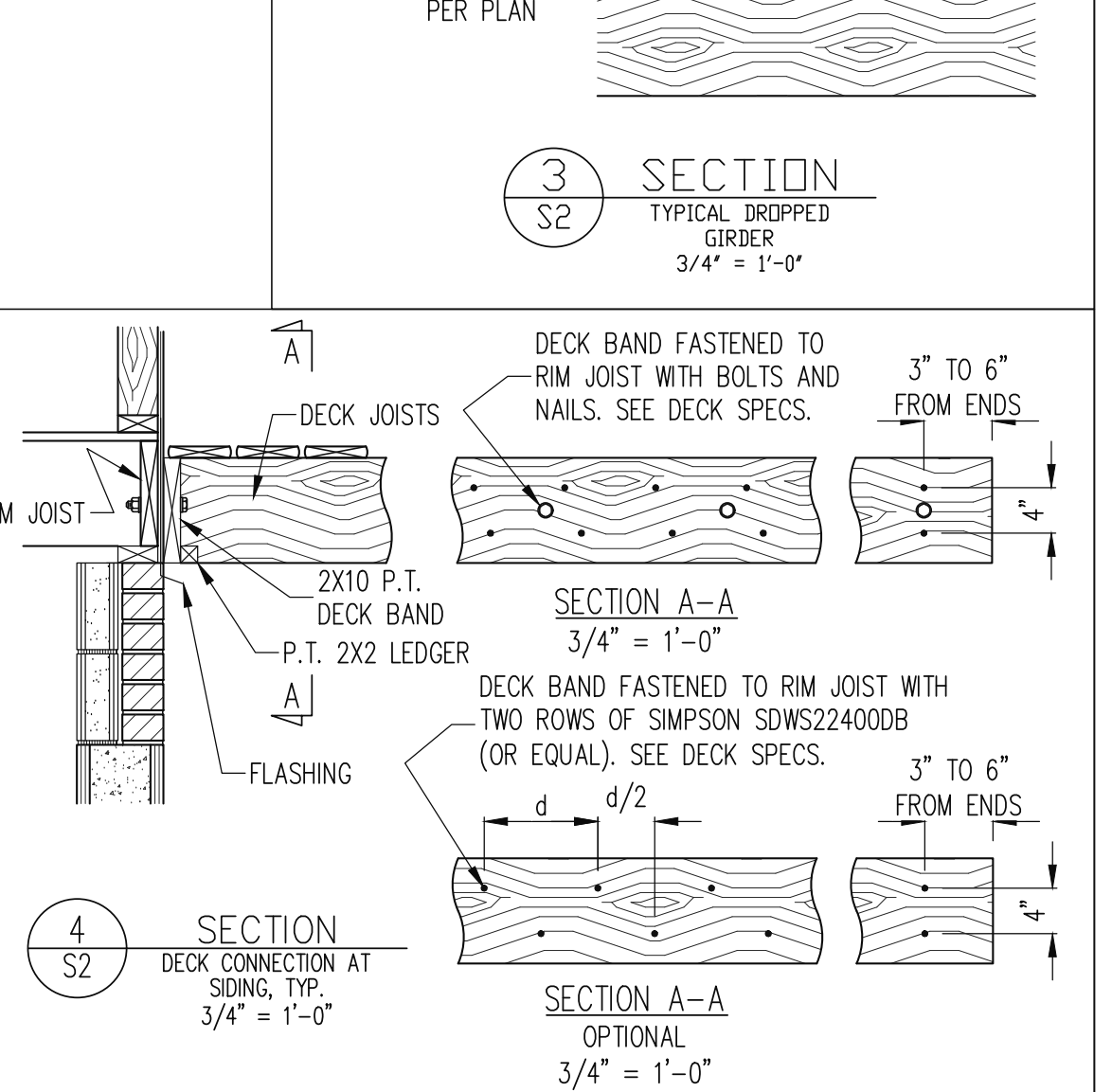
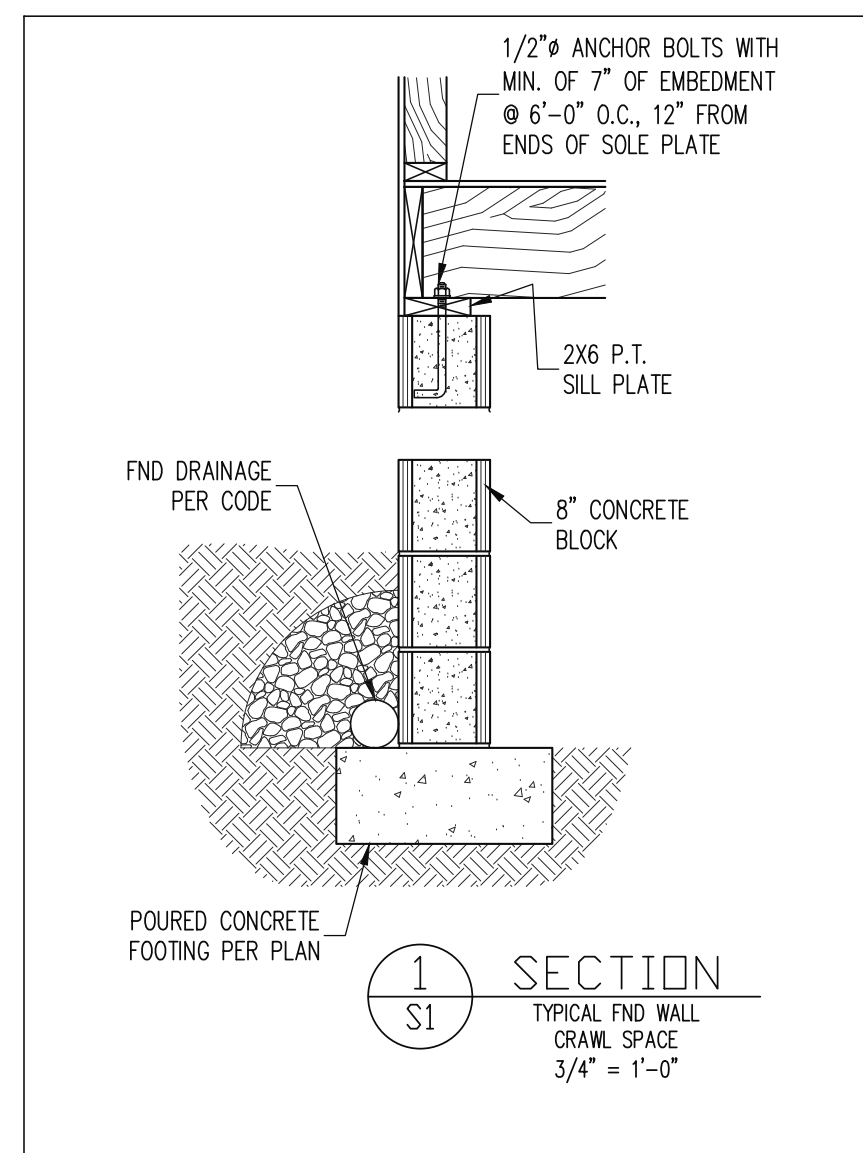
PREWITT DOUGLAS	
STRUCTURAL ADDENDUM	
SCOPE:	REV # REF PROJ # DATE
LOC:	33 COTTON FARMS

ENG: RJS/ZCH
 DATE: 11/26/2024

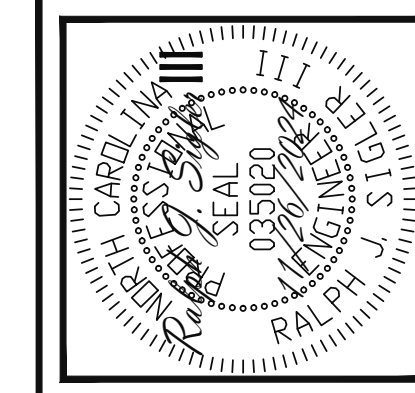
PLAN
 24-266

PROJECT NO.
 24-65-295_500

SHEET NO.
 S5
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SCOPE:	LOC:	33 COTTON FARMS
	REV # (REF PROJ) #	DATE
PREWITT DOUGLAS STRUCTURAL ADDENDUM		

ENG: RJS/ZCH
 DATE: 11/26/2024

PLAN
 24-266

PROJECT NO.
 24-65-295_500

SHEET NO.
 SD1
 6 of 7

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:
TABLE: 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
GARAGES (PASSENGER CARS ONLY)
ATTICS (NO STORAGE, LESS THAN 5' HEADROOM)
ATTICS (WITH STORAGE)
ROOF

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 MEDIUM 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 B18.21-1981. 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. BEAMS, STUDS, ETC. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
E= 1,400,000 PSI, Fc pop = 425 PSI, Fv = 135 PSI, SPECIFIC GRAVITY = 0.42 MIN
Fc = 875 PSI FOR 2X4, 2X6, 2X8, Fv = 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= 1,900,000 PSI, Fc = 2600 PSI, Fv = 285 PSI, Fc pop = 750 PSI
LSL MINIMUM ALLOWABLE DESIGN STRESSES ARE AS FOLLOWS:
E= 1.3 X 10E6 PSI, Fc = 1700 PSI, Fv = 400 PSI, Fc pop = 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 ANPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH ANPA 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 FLUTCH PLATE BEAMS
13.01 FLUTCH 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" # BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX FROM EACH END OF THE BEAM. TYP UNO
PART 14: STUD SUPPORTS FOR BEAMS
14.01 STEEL ENGINEERED LUMBER, AND FLUTCH 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. 1" 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 NRC. CONTINUOUS SHEATHING HAS BEEN PROVIDED, ALONG WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NRC 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 R602.3.1 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
-MAY SUBSTITUTE WSP FOR OSB
-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 NAILS @ 8" 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:
NUMBER OF KING STUDS
MAX OPENING WIDTH 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 DESIGNER. 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

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 PENETRATION 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

Table with columns for abbreviations and their corresponding terms:
AVB ABOVE, B BOTH, B.E. BOTH ENDS, BTWN BETWEEN, CIP CAST IN PLACE, CONC CONCRETE, CS CONTINUOUS SHEATHING, DIA DIAMETER, DBL DOUBLE, DJ DOUBLE JOIST, DSP DBL STUD POCKET, EQ EQUAL, EA EACH, FLD FLANGE, FL PL FLUTCH PLATE, FLR FLOOR, FND FOUNDATION, FTG FOOTING, HDG HOT DIPPED, GALV GALVANIZED, HGR HANGER, LVL LAMINATED VENEER LUMBER, NTS NOT TO SCALE, O.C. ON CENTER, PSL PARALLEL STRAND LUMBER, PT PRESSURE TREATED, QJ QUAD JOIST, SP SPACE (OR SPACING), SSP SINGLE STUD POCKET, SQ SQUARE, TJ TRIPLE JOIST, TYP TYPICAL, TRPL TRIPLE, TSP TRIPLE STUD POCKET, UNO UNLESS NOTED OTHERWISE, XJ EXTRA JOIST

ALLOWABLE I-JOIST SUBSTITUTION

Table with columns for Manufacturer, Depth, Series, Simpson Face Mount Hgr, and Simpson Top Flange Hgr. Lists various joist models like BLUELINE, BOISE CASCADE, INTERNATIONAL, LP CORP, NORDIC, ROSEBURG, WEYERHAEUSER with their respective specifications.

DECK SPECIFICATIONS

1. A DECK IS AN EXPOSED EXTERIOR WOOD FLOOR STRUCTURE WHICH MAY BE ATTACHED TO A STRUCTURE OR BE FREE STANDING, ROOFED PORCHES, OPEN OR SCREENED IN, MAY BE CONSTRUCTED USING THESE PROVISIONS.
2. SUPPORT POSTS SHALL BE SUPPORTED BY A FOOTING.
3. WHEN ATTACHED TO A STRUCTURE, THE STRUCTURE TO WHICH ATTACHED SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION RESISTANT FLASHING SHALL BE USED TO PREVENT MOISTURE FROM COMING IN CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE. THE DECK BAND AND THE STRUCTURE BAND SHALL BE CONSTRUCTED IN CONTACT WITH EACH OTHER EXCEPT AT BRICK VENEER AND WHERE PLYWOOD SHEATHING IS REQUIRED AND PROPERLY FLASHED. SIDING SHALL NOT BE INSTALLED BETWEEN THE STRUCTURE AND THE DECK BAND. IF ATTACHED TO A BRICK STRUCTURE, NEITHER FLASHING NOR A TREATED BAND FOR THE BRICK STRUCTURE IS REQUIRED. IN ADDITION, THE TREATED DECK BAND SHALL BE CONSTRUCTED IN CONTACT WITH THE BRICK
4. WHEN THE DECK IS SUPPORTED AT THE STRUCTURE BY ATTACHING THE DECK TO THE STRUCTURE, THE FOLLOWING ATTACHMENT SCHEDULES SHALL APPLY FOR ATTACHING THE DECK BAND TO THE STRUCTURE:
A. ALL STRUCTURES EXCEPT BRICK STRUCTURES
B. BRICK VENEER STRUCTURES
5. IF THE DECK BAND IS SUPPORTED BY A 1/2" MINIMUM MASONRY LEDGE ALONG THE FOUNDATION WALL, 5/8" # BOLTS SPACED @ 48" O.C. MAY BE USED FOR SUPPORT.
6. OTHER MEANS OF SUPPORT, SUCH AS JOIST HANGERS, MAY BE USED TO CONNECT DECK JOISTS TO A TREATED STRUCTURE BAND
7. GIRDERS SHALL BEAR DIRECTLY ON POSTS OR BE CONNECTED TO THE SIDES OF POSTS WITH 2- 5/8" # BOLTS
8. FLOOR DECKING SHALL BE NO. 2 GRADE TREATED SOUTHERN PINE OR EQUIVALENT. THE MINIMUM FLOOR DECKING THICKNESS SHALL BE AS FOLLOWS:

Table for JOIST SPAN vs DECKING:
12" O.C. 1" S4S
16" O.C. 1" 1x6
24" O.C. 1 1/4" S4S
32" O.C. 2" S4S

Table for MAXIMUM HEIGHT OF DECK SUPPORT POSTS IS AS FOLLOWS:
POST SIZE vs MAX POST HEIGHT
4X4 8'
6X6 20'
ENGINEERED 20'+

NOTES: 1) THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS.
2) THIS TABLE IS BASED ON A MAXIMUM TRIBUTARY AREA OF 128 SQ. FT.
3) POST HEIGHT IS FROM TOP OF FOOTING TO BOTTOM OF GIRDER.

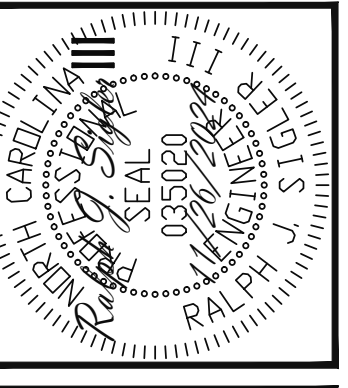
10. DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THE FOLLOWING METHODS:

A. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION 4, LATERAL BRACING IS NOT REQUIRED.
B. 4X4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE ATTACHED AT THE ENDS TO THE GIRDER AND THE POST WITH ONE - 5/8" # BOLT
C. FOR FREE STANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN CONCRETE IN ACCORDANCE WITH THE FOLLOWING:

Table for POST SIZE vs TRIBUT. AREA vs POST HEIGHT vs EMB. DEPTH vs CONC. DIAM.
4X4 48 SQ. FT. 4'-0" 2'-6" 1'-0"
6X6 120 SQ. FT. 6'-0" 3'-6" 1'-8"

D. 2X6 DIAGONAL VERTICAL CROSS BRACING SHALL BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREE STANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE BRACES SHALL BE ATTACHED TO THE POSTS WITH ONE - 5/8" # BOLT AT EACH END OF THE BRACE.
NOTES: 1) ALL NAILS AND BOLTS ARE TO BE HOT DIPPED GALVANIZED.
2) MINIMUM EDGE DISTANCE FOR BOLTS IS 2 1/2".
3) NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 1 1/2".

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Table with columns: SCOPE, LOC, REV #, REF PROJ #, DATE.
SCOPE: PREWITT DOUGLAS STRUCTURAL ADDENDUM
LOC: 33 COITTON FARMS

ENG: RJS/ZCH
DATE: 11/26/2024

PLAN
24-266

PROJECT NO.
24-65-295_500

SHEET NO.
SD2
7 of 7