

BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION.

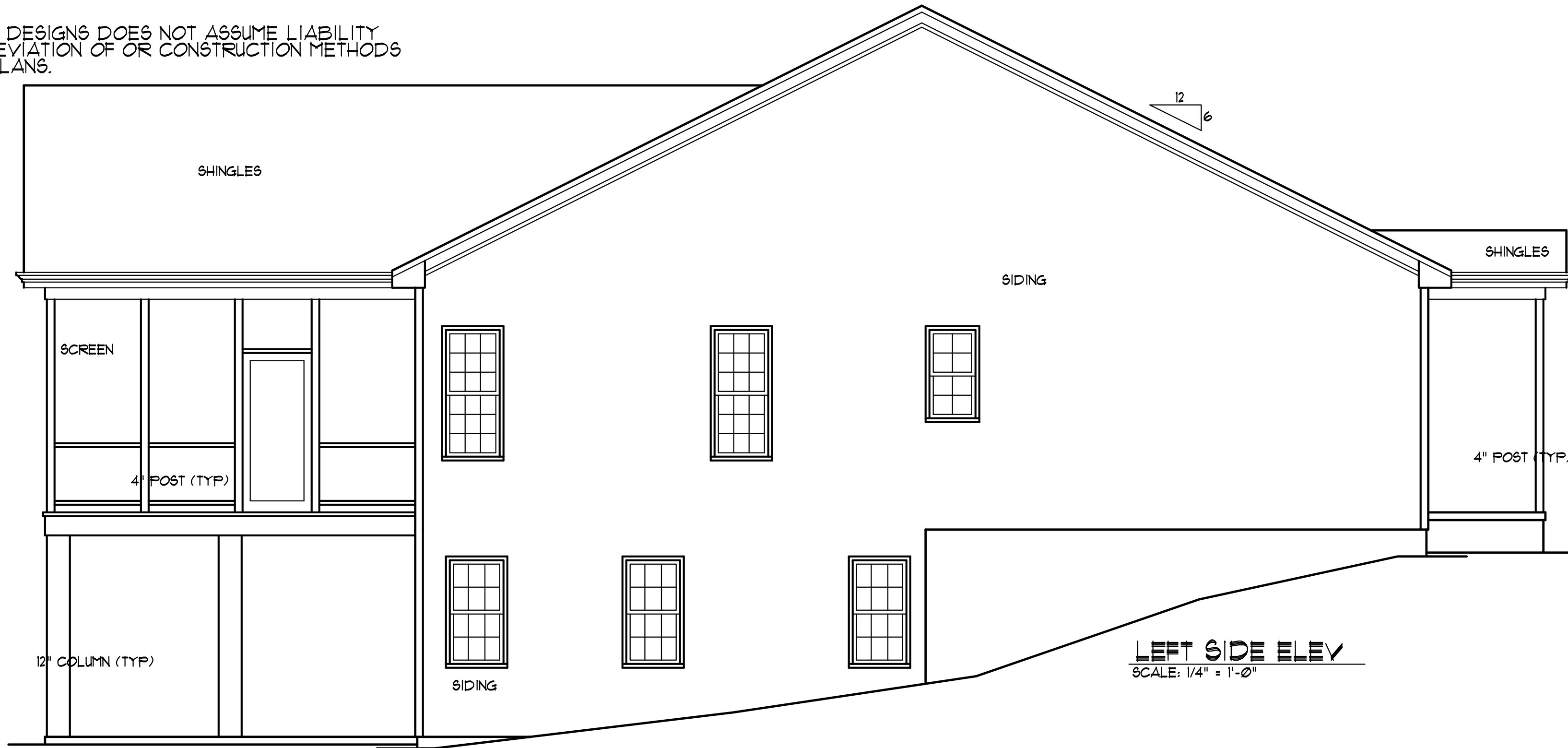
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CODES GOVERN OVER DRAWINGS.

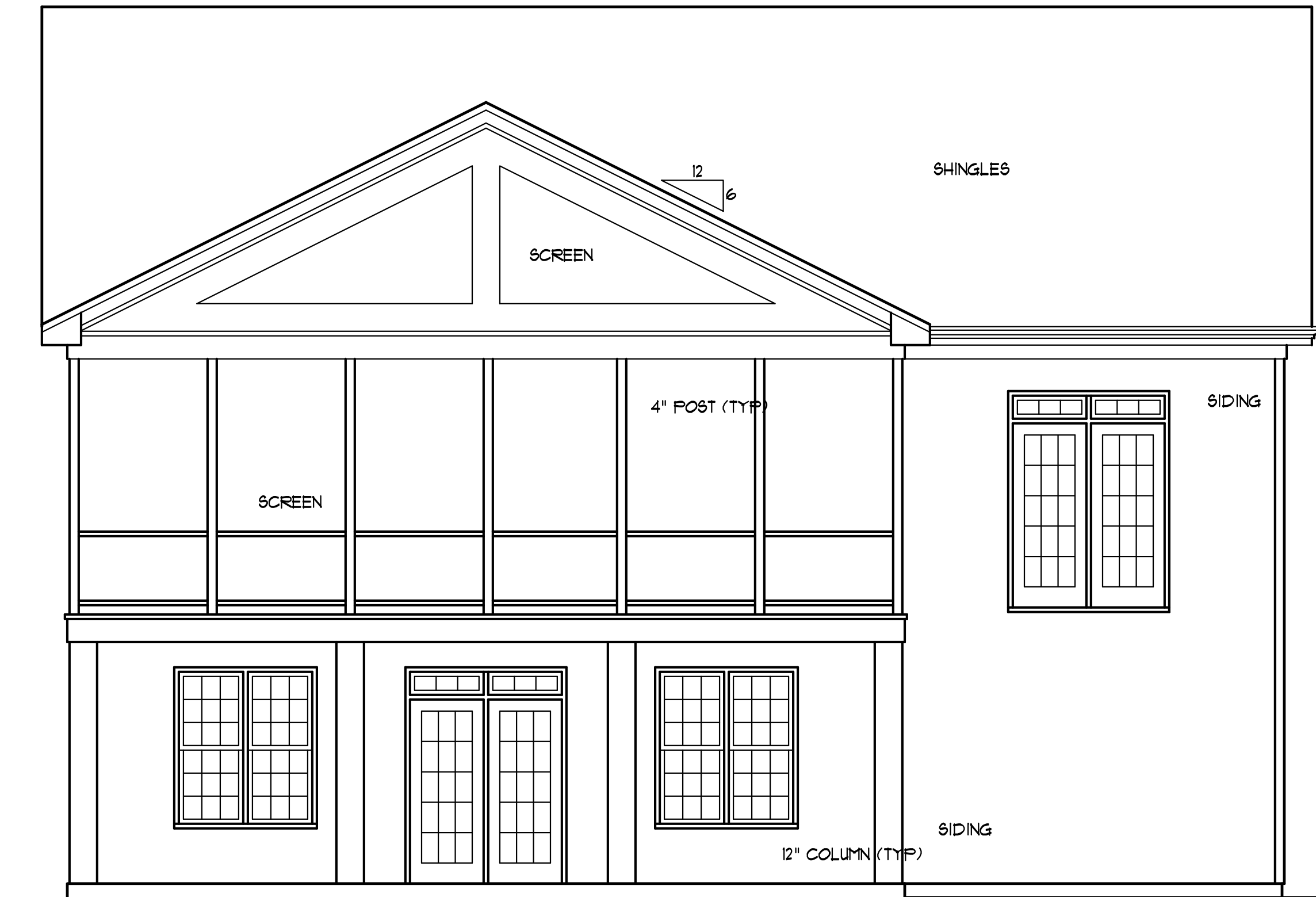
DIMENSIONS GOVERN OVER SCALE.

VERIFY ALL MECHANICAL REQUIREMENTS BEFORE FRAMING.

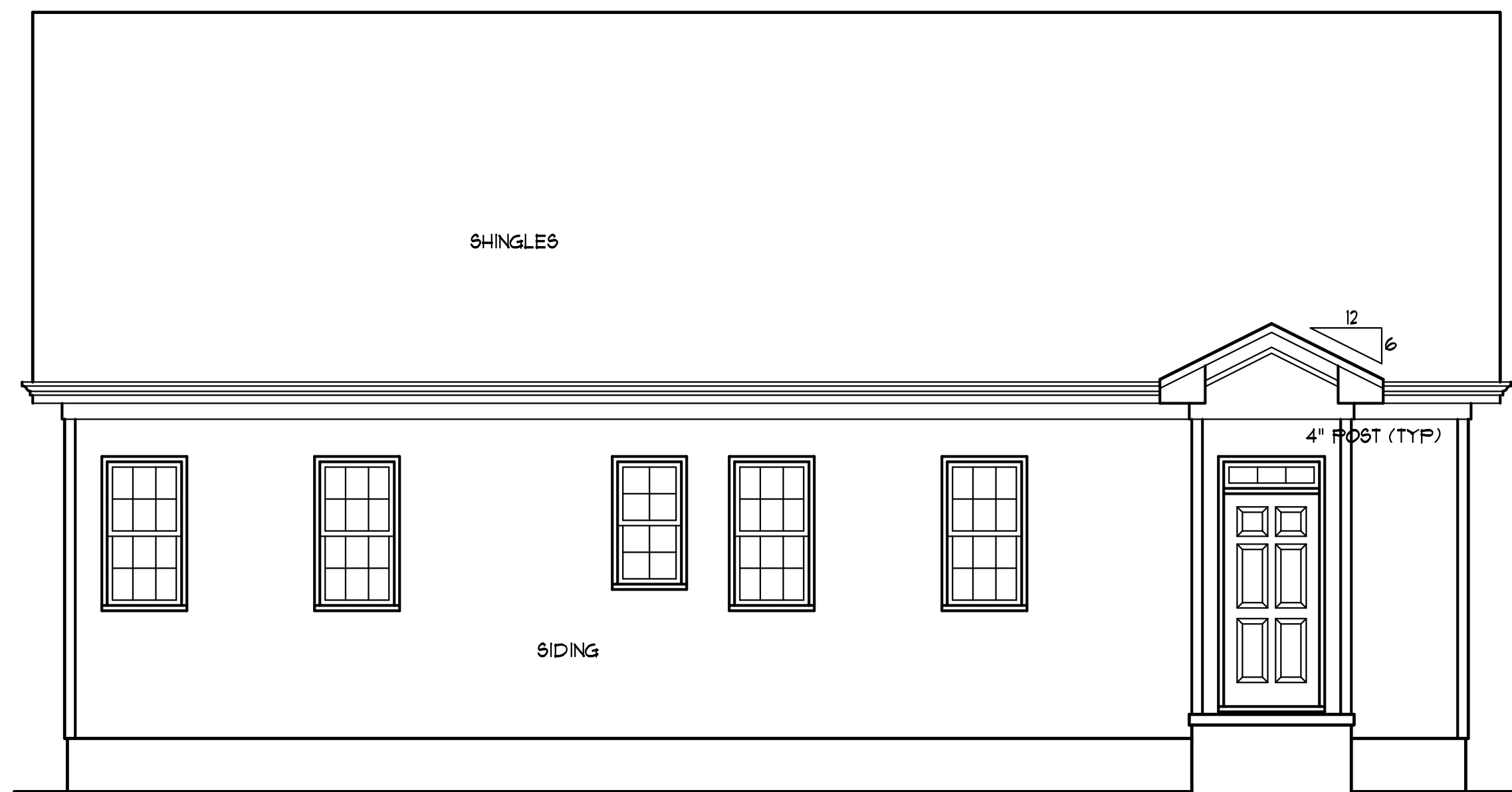
YUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.



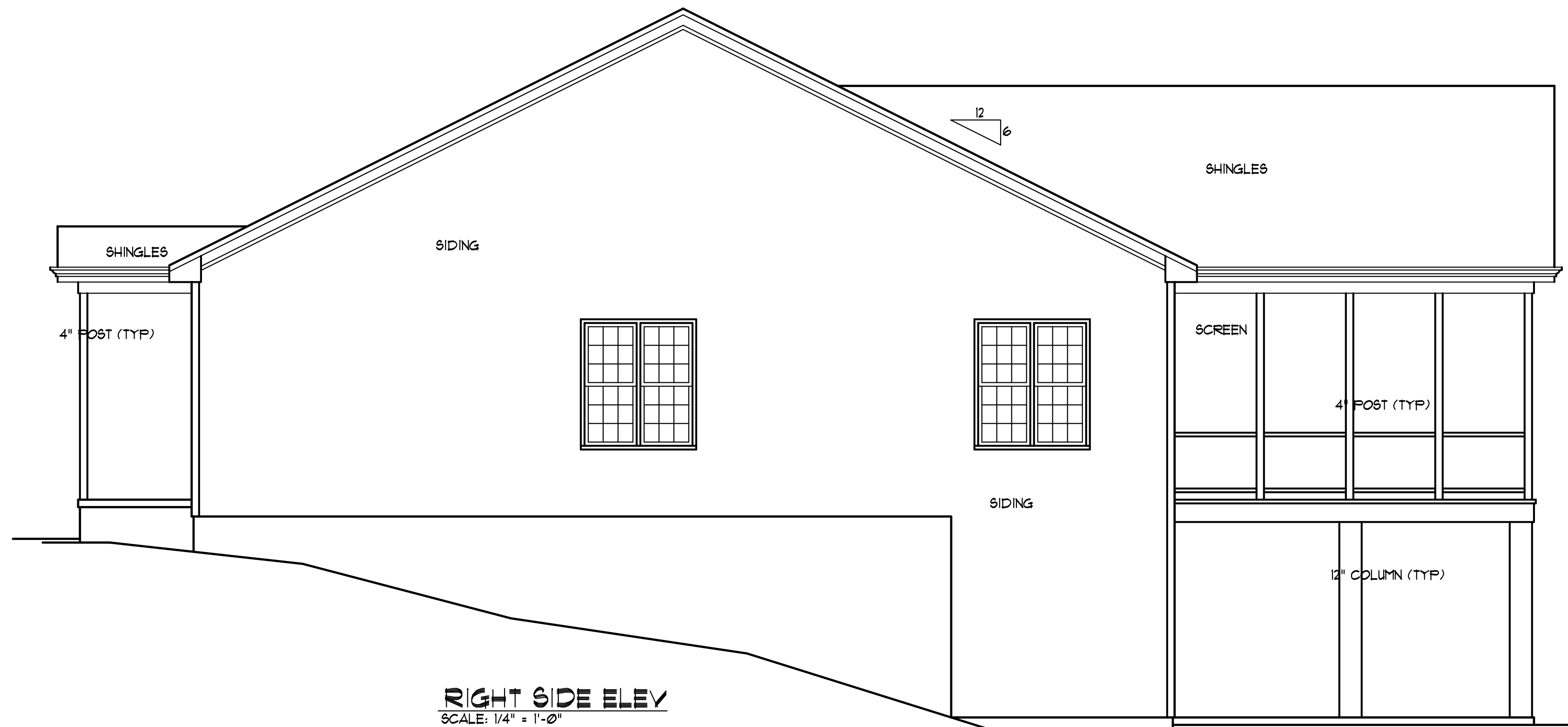
LEFT SIDE ELEV
SCALE: 1/4" = 1'-0"



REAR ELEVATION
SCALE: 1/4" = 1'-0"



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



RIGHT SIDE ELEV
SCALE: 1/4" = 1'-0"

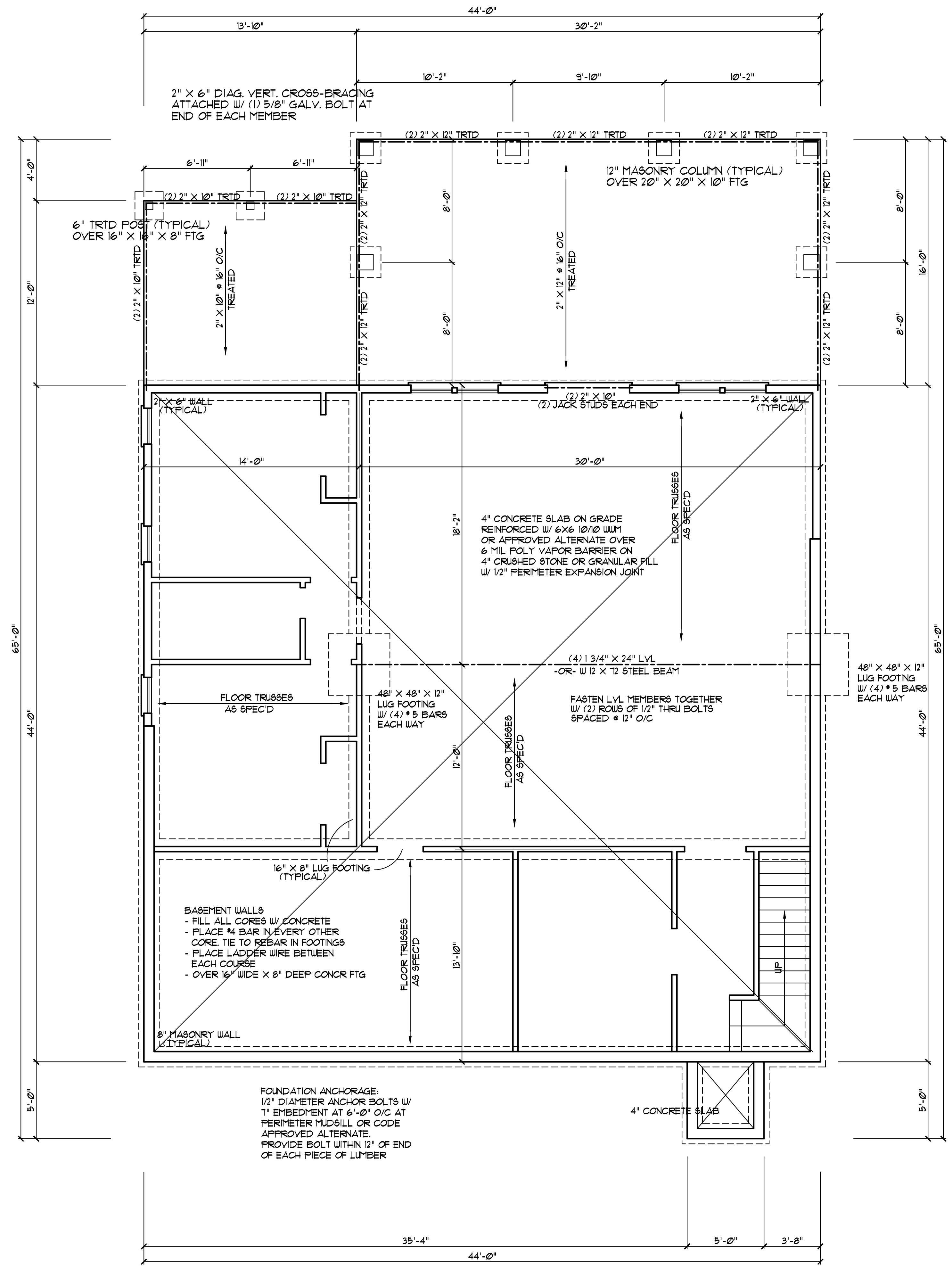
Miller, Jeremy
Tyler Dewar Rd
Fuquay Varina, NC

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CUSTOM HOME PLANS
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DRAWN BY : WRY
CHKD BY :
DATE: 05/08/23
REVISIONS :

SHEET
A-1

Plan No. 1936-10



SEE SHEET A-3 FOR WINDOW/DOOR SIZES, INTERIOR/EXTERIOR DIMENSIONS.

AREA: 1936 SQ. FT.

GENERAL FOUNDATION NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. EXTERIOR WALL FOOTING WHERE NOTED TO BE 16" X 10" 3000 PSI STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED. CONCRETE TO BE PREPARED AND PLACED IN ACCORDANCE WITH ACI 318. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS, REFER TO STATE AND LOCAL BUILDING CODES. NOTE: ASSUMED SOIL BEARING CAPACITY=2000 PSF. CONTRACTOR MUST VERIFY CONDITIONS AND CONTACT SOIL ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
3. FOOTINGS TO BEAR ON UNDISTURBED EARTH A MIN. OF 12" BELOW ADJACENT FINISH GRADE OR AS OTHERWISE DIRECTED BY LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 OF THE CODE "FOUNDATION DRAINAGE".
5. THE FOUNDATION SHALL BE TREATED IN ACCORDANCE W/SECTION R406 OF THE CODE "FOUNDATION WATERPROOFING AND DAMPROOFING".
6. THIS FOUNDATION DESIGN IS VALID FOR 115 MPH WIND ZONES ONLY.
7. FOUNDATION WALLS SHALL BE 8" BLOCK UNLESS NOTED OTHERWISE.
8. (2) #4 BARS IN FOOTINGS RUN CONTINUOUSLY.

INDICATES POINT LOAD ABOVE

STRUCTURAL EVALUATION BY:
 HOWERTON SERVICES, PLLC
 3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
 LICENSE P-1716

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 * DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 05/08/2023



S1 FOUNDATION
 1/4"=1'-0"

Plan No. 1936-10

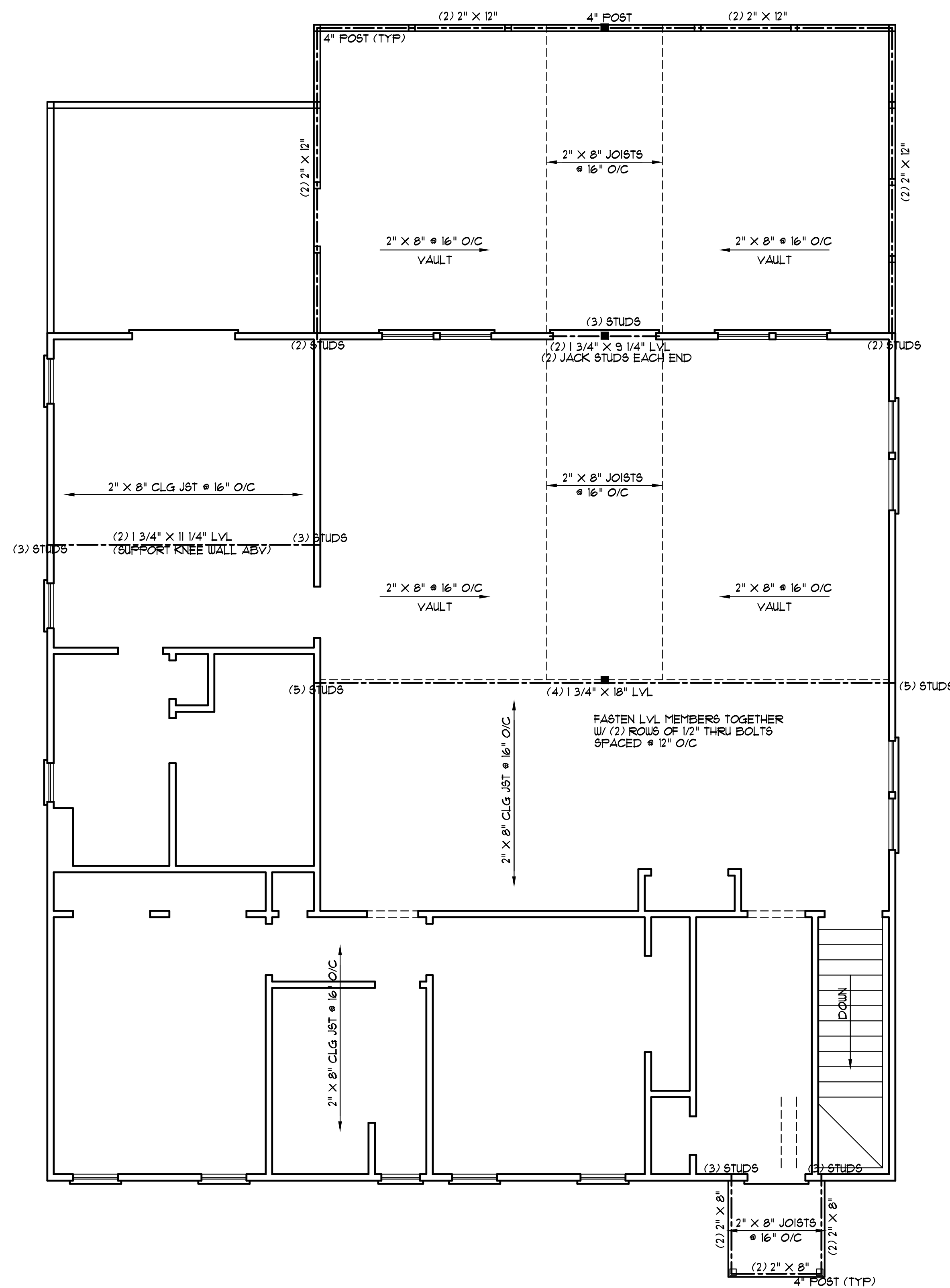
STRUCTURAL EVALUATION BY:
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 3513 CATHEDRAL BELL RD., RALEIGH N.C.
 27614

BUILDING DESIGN BY:
 VONCANNON DESIGNS

Miller, Jeremy
 Tyler Dewar Rd
 Fuquay Varina, NC

DESCRIPTION:
 FOUNDATION PLAN
 REVISION:
 DATE:
 05/08/2023

DRAWING:
S1



FIRST FLOOR HEATED AREA: 1936 SQ. FT.
 REAR PORCH AREA: 483 SQ. FT.

GENERAL FRAMING NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15% OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER POSITIVE/NEGATIVE PRESSURE.
- ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER 11, ENERGY EFFICIENCY OF THE CODE FOR ZONE 7 (TABLE N1101.2).
- DESIGN CRITERIA

DESIGN CRITERIA	DEAD	LIVE
PRIMARY FLOOR	10 PSF	40 PSF
SECONDARY FLOOR	10 PSF	40 PSF
SLEEPING AREAS	10 PSF	30 PSF
ATTIC	10 PSF	20 PSF
ROOF	10 PSF	20 PSF
WIND	100 MPH	
- DEFLECTION LIMITS FLOOR - L/360
(LIVE LOAD ONLY) ROOF - L/240
- ALL HEADERS IN LOAD BEARING WALLS SHALL BE DOUBLE 2X10.
- ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- FLOOR INSULATION = R-19, EXTERIOR = R-15 AND CEILING = R-38.
- PROVIDE DOUBLE FLOOR JOISTS OR TRUSS UNDER WALLS ABOVE.

R602.7.5 SUPPORTS FOR HEADERS:

HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH TABLE R602.7(1) OR R602.7(2). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END OF THE HEADER WITH FOUR-16D NAILS (3.5 INCHES X 0.135 INCHES). THE MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF A HEADER SHALL BE IN ACCORDANCE WITH TABLE R602.7.5.

TABLE R602.7.5

MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMUM STUD SPACING (INCHES) PER TABLE R602.3(5)	
LESS THAN/EQUAL TO 3'	16	24
4'	1	1
8'	2	2
12'	3	3
16'	4	4

BRACED WALL NOTES:

- BRACED WALLS ARE REQUIRED PER SECTION R602.10.1 2018 NCBC RESIDENTIAL CODE.
- THE EXTERIOR WALL STRUCTURE SHALL BE CONTINUOUSLY SHEATHED, FULL HEIGHT WITH MIN. THICKNESS 7/16" OSB. THESE WALLS SHALL BE CONSTRUCTED IN CONFORMANCE TO TYPE CS-WSP DETAILS.
- BASES OF DESIGN FOR INTERIOR BRACE WALLS IS GYPSUM BOARD METHOD AS DETAILED PER CODE TABLE R602.10.2.
- SPECIAL BRACING DETAILS ARE ILLUSTRATED IN THE CODE AND ALLOWED WHERE WALLS DO NOT MEET THE MINIMUM REQUIREMENTS FOR SUPPORT. REFER TO GARAGE OPENING, PORTAL FRAMING DETAILS.

STRUCTURAL EVALUATION BY:

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 LICENSE P-1716

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05 08 2023

S2 FIRST FLOOR FRAMING
01 1/4"=1'-0"

Plan No. 1936-10

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 3513 CATHEDRAL BELL RD., RALEIGH N.C.
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BUILDING DESIGN BY:
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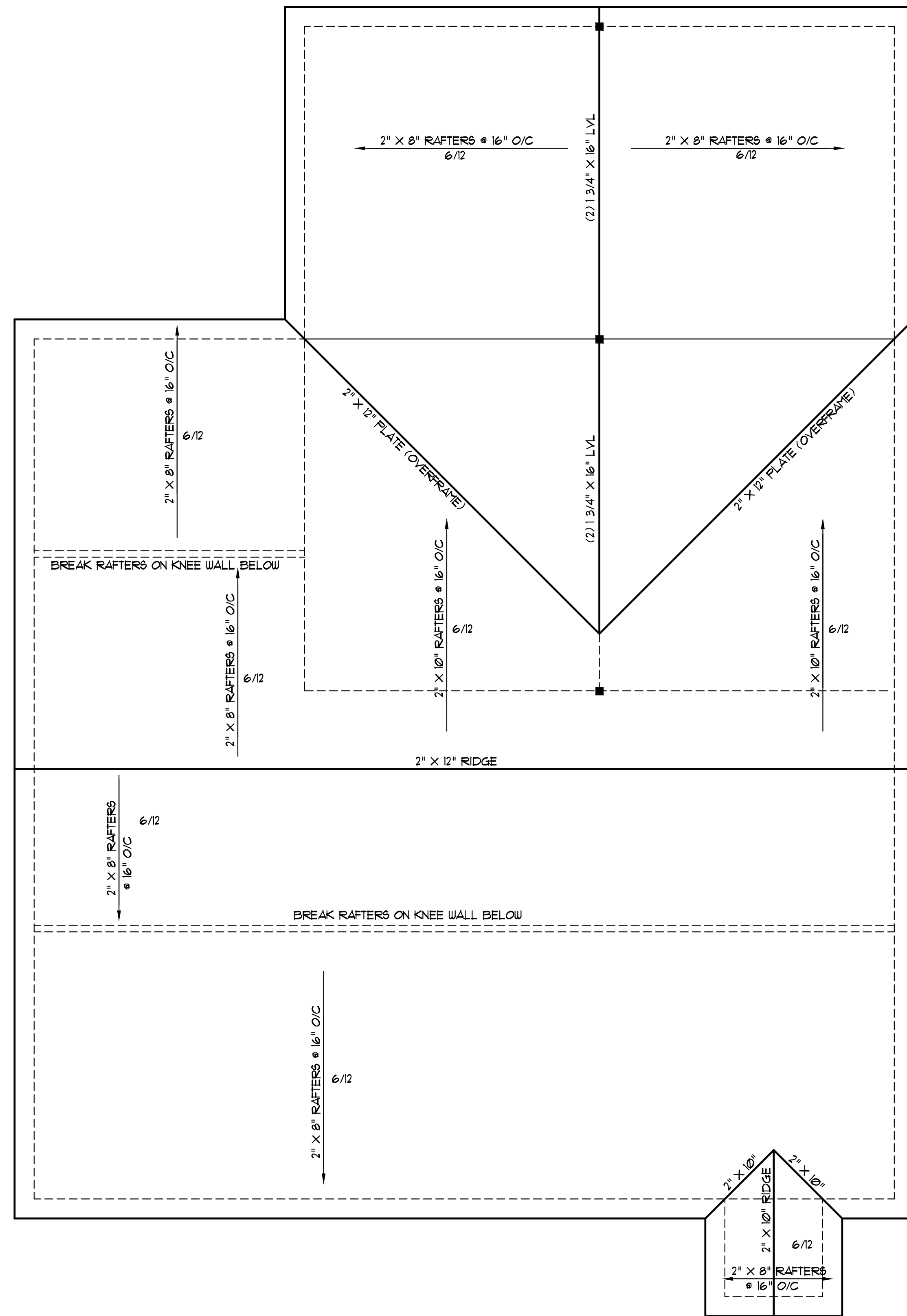
DESCRIPTION:
 MAIN LEVEL
 FLOOR FRAMING

REVISION:

DATE:
 05/08/2023

OWNER:

S2



FASTEN LVL RIDGE MEMBERS TOGETHER
 W/ (2) ROWS OF 1/4" X 3" STRUCTURAL SCREWS
 SPACED @ 12" O/C

GENERAL ROOF NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
 45.5 #/SF FOR ROOF PITCHES FROM 0 /12 TO 2.25 /12
 34.5 #/SF FOR ROOF PITCHES FROM 2.25 /12 TO 7 /12
 21 #/SF FOR ROOF PITCHES FROM 7 /12 TO 12 /12
- ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE CODE.
- ALL LUMBER SHALL BE #2 SPF OR BETTER. RAFTERS MAY BE FINGER JOINTED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, AND MUST HAVE THE STRUCTURAL CERTIFICATION STAMPED ON THE MEMBER.
- RAFTER SIZES, SPANS AND SPACING SHALL NOT EXCEED THE FOLLOWING:

SIZE	2X6	2X8	2X10
SPACING 12" O.C.	14'-9"	19'-6"	24'-10"
SPACING 16" O.C.	13'-5"	17'-9"	22'-3"
- ALL RAFTERS @ 2X8 @ 16" O.C. #2 SPF UNLESS NOTED OTHERWISE.
- 2-2X10 HIPPS MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP.
- PROVIDE DOUBLE RAFTER EACH SIDE OF DORMERS WITH DOUBLE HEADER.
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIP SIMPSON "H-5" OR EQUIVALENT. PROVIDE DOUBLE OPPOSING RAFTERS WHERE NOTED.
- 2X8 RAFTERS @ CATHEDRAL OR VAULTED CEILINGS TO BE FURRED DOWN 2" OR USE 2X10 RAFTERS FOR INSULATION PER CODE.
- PROVIDE 2X4 COLLAR TIES EVERY SECOND RAFTER (TYPICAL)
- PROVIDE 2X4 RAFTER TIES @ 32" O.C. (TYPICAL)
- FRAME RAFTERS ON 2X4 PLATE ON TOP OF CEILING JOISTS UNLESS NOTED OTHERWISE.
- SHINGLES ASSUMED TO BE 240 LB. FIBERGLASS, OR EQUAL. MINIMUM ROOF PITCH TO BE AS INDICATED ON ARCHITECTURAL PLAN SHEETS.
- PROVIDE DOUBLE LAYER OF ROOF FELT WHERE ROOF PITCH IS LESS THAN 4 /12.
- THESE DESIGN DRAWINGS WERE PRODUCED BY HOWERTON SERVICES, PLLC ASSUMES NO LIABILITY FOR THE CORRECTNESS OF ARCHITECTURAL FEATURES, DIMENSIONS OR FIXTURES.
- ALL HIP RIDGES AND VALLEYS SHALL BE DOUBLE 2X10 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING DRAWINGS FOR CONSTRUCTABILITY PRIOR TO BEGINNING CONSTRUCTION.
- VALLEY RAFTERS WITH SPANS LONGER THAN 15' SHALL BE LVLs SUPPORTED AS NOTED. PROVIDE TEMPORARY STIFF KNEE SUPPORT UNTIL ALL SHEATHING AND RAFTER TIES/COLLARS ARE INSTALLED.
- DO NOT SCALE THESE DRAWINGS. IF DISCREPANCIES ARE NOTED, CONTACT THE ENGINEER.

ATTIC SPACE VENTILATION

MAIN ROOF
 ATTIC AREA = 2419 SQ. FT.
 REQUIRED AREA = A/500 = 8.06 SQ. FT.

NOTE:
 ALL EAVES TO HAVE 2" CONTINUOUS SOFFIT VENT
 ALLOW 1" AIR SPACE ABOVE INSULATION FOR AIR FLOW

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■ INDICATES (3) 2x4 STIFF KNEE ON BEAM BELOW OR 4" X 4" POST

S3 ROOF PLAN
01 1/4"=1'-0"

Plan No. 1936-10

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 27614

BUILDING DESIGN BY:
 VONCANNON DESIGNS

Miller, Jeremy
 Tyler Dewar Rd
 Fuquay Varina, NC

DESCRIPTION:
 ROOF PLAN

REVISION:

DATE:
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DRAWING:

S3

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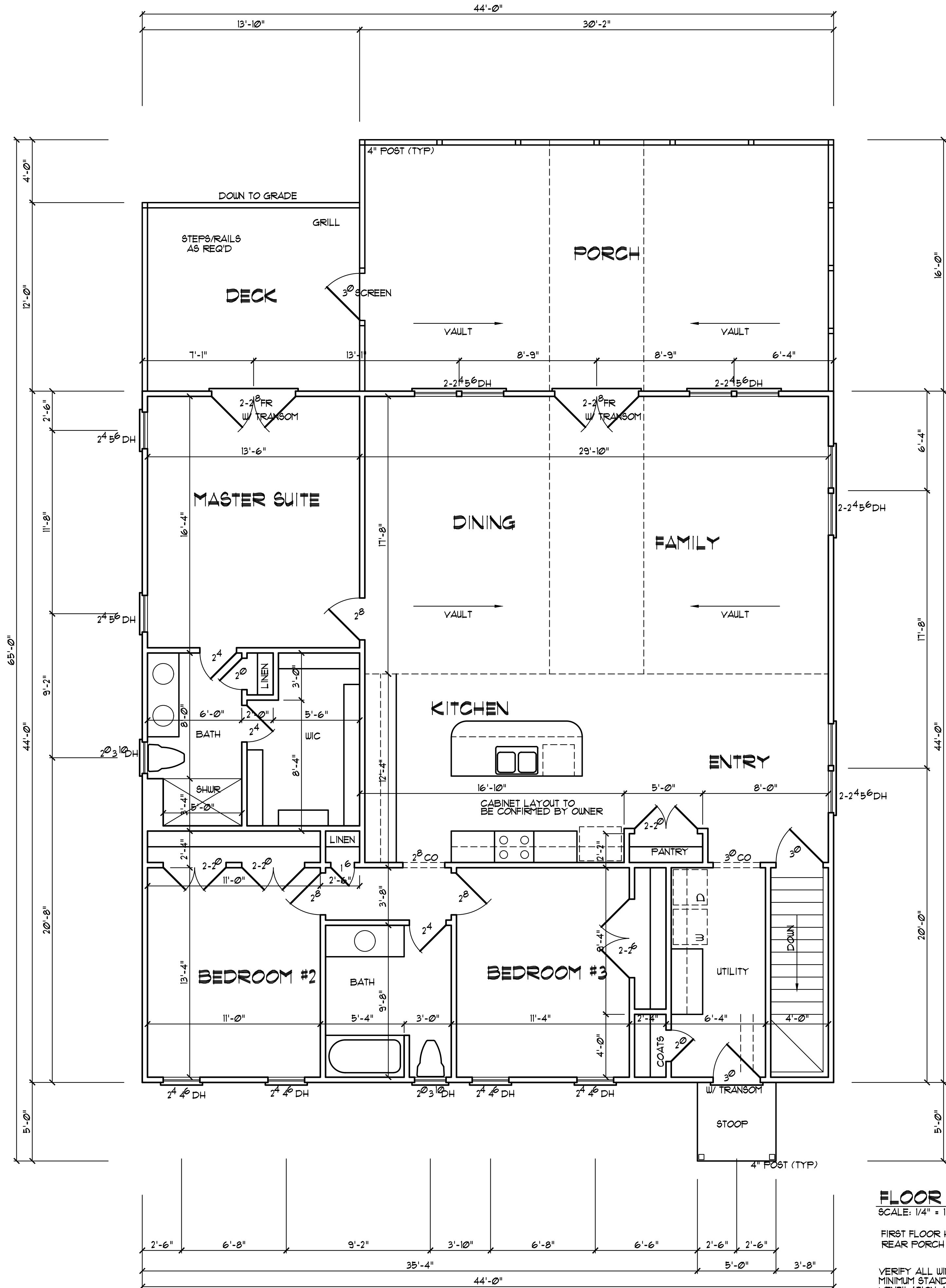
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DIMENSIONS GOVERN OVER SCALE.

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FLOOR PLAN
SCALE: 1/4" = 1'-0"

FIRST FLOOR HEATED AREA: 1936 SQ. FT.
REAR PORCH AREA: 483 SQ. FT.

VERIFY ALL WINDOW SIZES MEET MINIMUM STANDARDS FOR LIGHT, VENTILATION AND EGRESS.

NOTE

- 1) 8'-0" CEILING HEIGHT
- 2) FRAME WINDOWS AT 1'-8" ABOVE FINISHED FLOOR
- 3) DOUBLE ALL DOORS PARALLEL TO WALLS ABOVE.
- 4) USE TIPPED GLASS AT TUB & SHUR. AREAS WITH HEADS LESS THAN 15" ABOVE FINISHED FLOOR WITH MORE THAN 9 SQ. FT. OF GLASS AND JDSR WITHIN 2' OF SINGING DOORS.
- 5) USE 2X10'S AS HEADERS (MIN) W/ON. ON STRUCTURAL SHEETS
- 6) ATTIC ACCESS 22"X30" MINIMUM.
- 7) SILL AND PLATES TO BE 8" OR MORE ABOVE GRADE OR BE TREATED MATERIAL.
- 8) SIDING TO BE MINIMUM 6" ABOVE GRADE.
- 9) DOOR FROM GARAGE TO HOUSE TO BE 20 MINUTE FIRE RATED. ADD 1/2" SHEETROCK ON ALL WALLS & CEILING COMMON TO GARAGE & HEATED SPACE.
- 10) MINIMUM 18" SIDE CLEARANCE FROM CENTER LINE OF WATER CLOSET.
- 11) PROVIDE TREATED BAND AT CONCRETE SLAB.

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DRAWN BY: WRY
CHK'D BY:
DATE: 05/08/23
REVISIONS:

SHEET
A-2

Plan No. 1936-10

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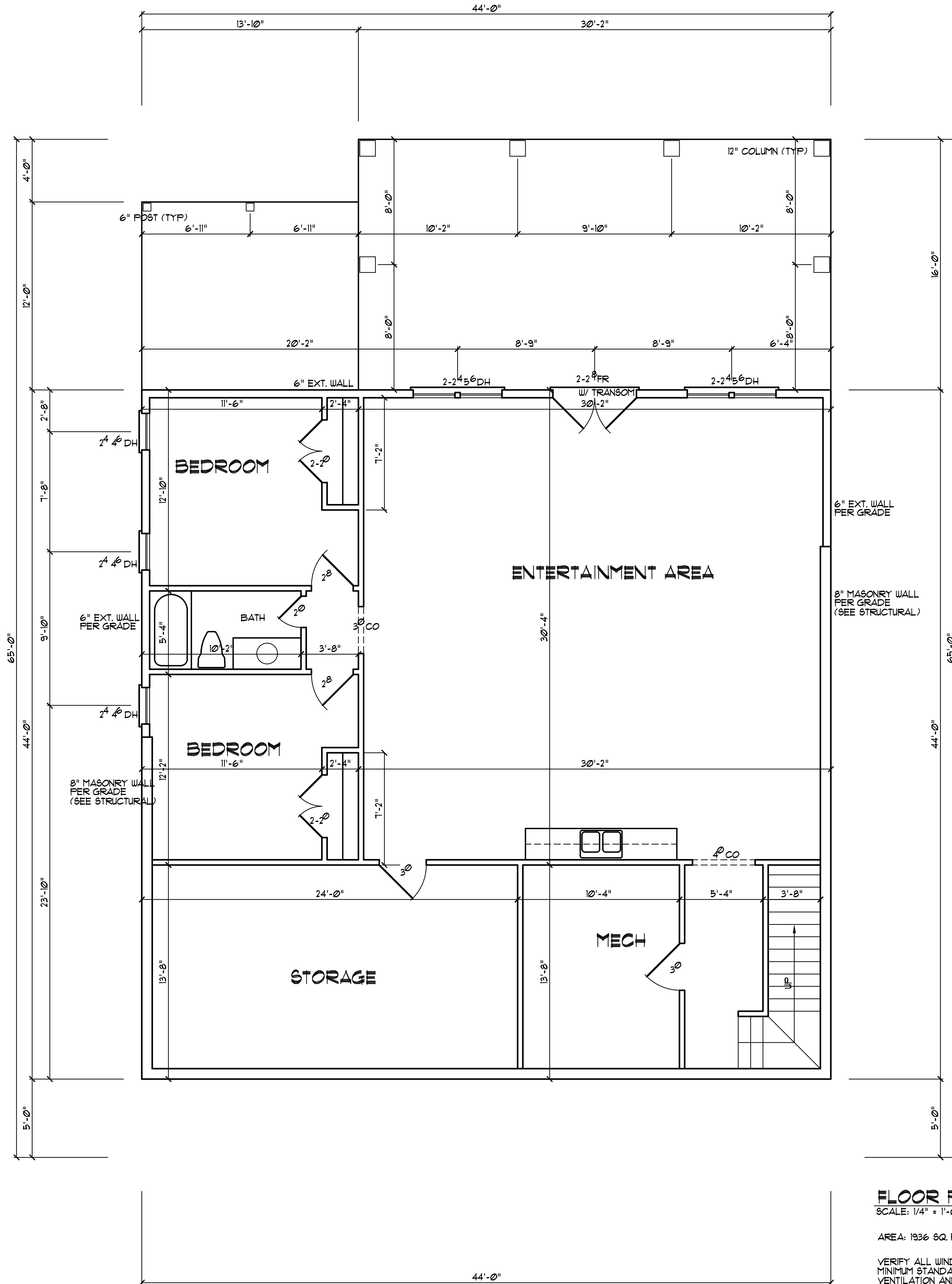
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FLOOR PLAN
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NOTE

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- 4) USE TEMPERED GLASS AT TUB & SHOWER AREAS WITH LEAS LESS THAN 8' ABOVE FINISHED FLOOR WITH MORE THAN 8 SQ. FT. OF GLASS AND JDSR WITHIN 2' OF SLINGING DOORS.
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FLOOR PLAN
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SHEET
A-3

Plan No. 1936-10