



O About MIDLO

2018 IRC Required Braced-Wall-Line Length Calculations

PROJECT INFORMATION

NAME: Iron Springs

ADDRESS:

WALL DIRECTION: Front to Back

ULTIMATE DESIGN WIND SPEED: 115 mph

SEISMIC DESIGN CATEGORY: B

WIND EXPOSURE CATEGORY: C

	Wall Line A-1	Wal Line B-1	Wal Line C-1
Inputs			
Braced-Wall-Line Location	1st of 1-story	1st of 1-story	1st of 1-story
Eave to Ridge Height	12 ft	12 ft	12 ft
Braced-Wall-Line Spacing	17 . 92 ft	40 - 00 ft	40.00 ft
Wall Height	9 ft	9 ft	9 ft
Bracing Method	WSP	WSP	WSP
GB Construction Type	N/A	N/A	N/A
Gypsum Wall Board on Inside	Yes	Yes	Yes
Horizontal Joints Blocked	Yes	Yes	Yes
Holdown Device Used	Yes	No	No
WIND			
Tabulated Wind Bracing Amount	3.188 ft	7 ft	7 ft
Exposure Height Factor	1.2	1.2	1.2
Eave-to-Ridge Height Factor	1.12	1.12	1.12
Wind Wall Height Factor	0.95	0.95	0.95
Number of BWL Factor	1.3	1.3	1.3
Holdown Factor	0.8	1	1
Blocked Joint Factor	1	1	1
Gypsum on Inside Factor	1	1	1
Wind GB Construction Factor	1	1	1
Required Wind Bracing Amount	4.23 ft	11 . 62 ft	11.62 ft
RESULTS			
Length of Wall Bracing Required	4-23 ft	11.62 ft	11.62 ft

This wall-bracing evaluation is based on the 2018 International Residential Code. The user is responsible for ensuring that the project fits within the scope of the IRC and complies with the wall-bracing requirements of Sections R602.10, R602.11 and R602.12 as applicable.





2018 IRC Required Braced-Wall-Line Length Calculations

PROJECT INFORMATION

NAME: Iron Springs

ADDRESS:

WALL DIRECTION: Side To Side

SEISMIC DESIGN CATEGORY: B ULTIMATE DESIGN WIND SPEED: 115 mph

WIND EXPOSURE CATEGORY: C

	Wall Line 1-1	Wall Line 2-1	Wall Line 3-1	Wall Line 4-1	Wall Line 5-1
Inputs					
Braced-Wall-Line Location	1st of 1-story				
Eave to Ridge Height	12 ft				
Braced-Wall-Line Spacing	19.67 ft	19.67 ft	17.33 ft	12.67 ft	11.33 ft
Wall Height	9 ft				
Bracing Method	WSP	ЦВ	WSP	ЦВ	WSP
GB Construction Type	N/A	N/A	N/A	N/A	N/A
Gypsum Wall Board on Inside	Yes	Yes	Yes	Yes	Yes
Horizontal Joints Blocked	Yes	N/A	Yes	N/A	Yes
Holdown Device Used	No	N/A	No	N/A	No
WIND					
Tabulated Wind Bracing Amount	3.4505 ft	6.401 ft	3.0995 ft	4_301 ft	2.1995 ft
Exposure Height Factor	1.2	1.2	1.2	1_2	1.2
Eave-to-Ridge Height Factor	1,12	1.12	1,12	1.12	1.12
Wind Wall Height Factor	0.95	0.95	0.95	0.95	0.95
Number of BWL Factor	1.6	1.6	1.6	1.6	1.6
Holdown Factor	1	1	1	1	1
Blocked Joint Factor	1	1	1	1	1
Gypsum on Inside Factor	1	1	1	1	1
Wind GB Construction Factor	1	1	1	1	1
Required Wind Bracing Amount	7.05 ft	13.08 ft	6.33 ft	8.79 ft	4.49 ft
RESULTS					
Length of Wall Bracing Required	7,05 ft	13,08 ft	6-33 ft	8.79 ft	4.49 ft

NOTE: RISEN HOME DESIGN PLANS DO NOT CARRY AN

ENGINEER'S STAMP TO COMPLY WITH LOCAL BUILDING

CONSTRUCTION THAT MAY REQUIRE AN ARCHITECT'S AND/OR

CODES. THE CONTRACTOR IS TO VERIFY THESE CONDITIONS

AND SECURE REQUIRED STAMPS PRIOR TO CONSTRUCTION

ENGINEER'S AND/OR ARCHITECT'S STAMP(S) SOME

CONDITIONS MAY ARISE DURING DESIGN. AND/OR

This wall-bracing evaluation is based on the 2018 International Residential Code. The user is responsible for ensuring that the project fits within the scope of

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GENERAL CONDITIONS

ERRORS AND/OR OMMISSIONS WILL BE LIMITED TO THE CORRECTION OF THE

DRAWINGS & SPECIFICATIONS IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO BE GUIDELINES FOR CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ANY QUESTIONS AND MEANINGS IN THE WORKING DRAWINGS AND SPECIFICATIONS AND THE CONTRACTOR SHALL NOTIFY THE DESIGNER IN WRITING OF ANY ERRORS, OMISSIONS, OR UNSUITABLE DETAILING WHICH MAY CAUSE CONSTRUCTION PROBLEMS. THE DESIGNER'S LIABILITY REGARDING

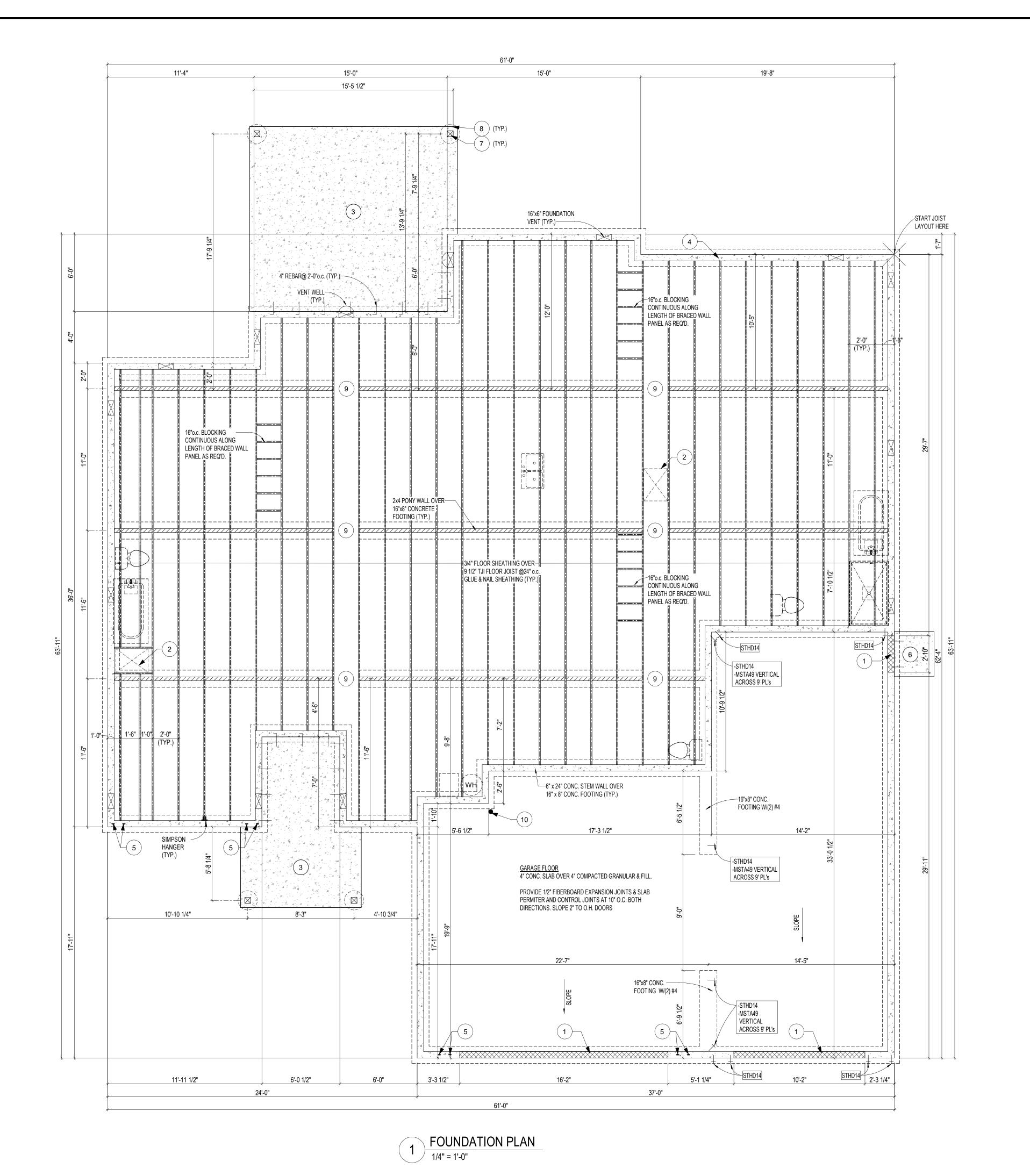
ORIGINAL DRAWINGS. CONSULTANT'S LITABILITY IS THE SAME.

REVISIONS

SHEET TITLE SITE PLAN

RHD PROJECT NUMBER: RHD-1133 DRAWN BY: RMC DATE:4/18/2024 DATE:4/18/2024 CHECKED BY: MM

A1.0





- 1. ASSUMED SOIL BEARING PRESSURE OF 1500 P.S.F. 2. ALL CONC. TO BEAR ON FIRM, NATURAL, UNDISTURBED SOIL. 3. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS TO BE: WALLS NOT EXPOSED TO WEATHER 2500 PSI WALLS EXPOSED TO WEATHER 3000PSI
- PORCHES, STEPS & GARAGE SLAB 3500PSI 4. EXTEND FOOTING BELOW FROST LINE, (24" MIN. INTO NATURAL SOIL FOR 1 STORY AND 2 STORY CONSTRUCTION
- 6' WITHIN THE FIRST 10 FEET. 6. 1/2" DIA. X 10" ANCHOR BOLTS TO BE USED @ 6'-0" O.C. & 7" MIN. INTO CONC. & 12" MAX FROM ANY CORNER W/ 2" DIA. WASHERS & 1/2" DIA. NUTS (CONC. STEM WALLS).

5. THE GRADE AWAY FROM THE FOUNDATION WALLS TOF ALL A MIN.

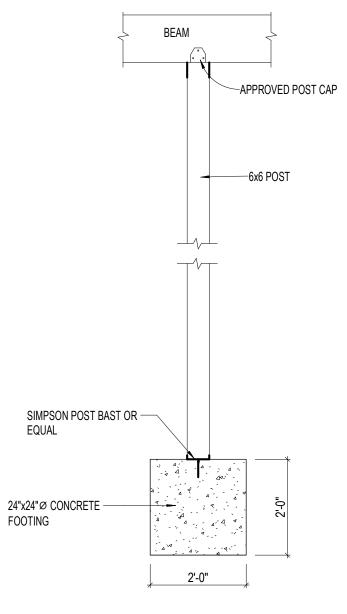
- 7. 18" MIN. CRAWL SPACE W 6MIL. BLACK W/6 MIL. BLACK VAPOR BARRIER THROUGHOUT LAP JOINTS 12" MIN. EXTEND UP STEM WALL & STAPLE TO
- 8. SUGGESTED REBAR PLACEMENT TO BE: 2- #4 HORIZONTAL REBAR IN FOOTING AND VERTICAL REBAR @ 6'-0" O.C. IN ALL 2' EXTERIOR CONCRETE STEM WALLS. ACTUAL REBAR INSTALLATION TO FOLLOW LOCAL REQUIREMENTS. 9. SUGGESTED REBAR PLACEMENT TO BE: 2- #4 HORIZONTAL REBAR
- IN FOOTING AND 2-#4 HORIZONTAL REBAR IN STEM WALL EQUALLY SPACED AND VERTICAL REBAR @ 6'-0" O.C. IN ALL 2' EXTERIOR CONCRETE STEM WALLS. ACTUAL REBAR INSTALLATION TO FOLLOW LOCAL REQUIREMENTS. 10. BASEMENT CONCRETE WALLS TO FOLLOW LOCAL REQUIREMENTS AND
- OR PER APPROVED STRUCTURAL ENGINEERING DRAWINGS. 11. ALL CONCRETE PORCHES TO BE DOWELED TO EXTERIOR STEM WALL WITH #4 REBAR @ 2'-0" O.C.
- 12. CONTRACTOR TO VERIFY ALL MEASUREMENTS AND SQUARENESS OF CORNERS PRIOR TO POURING AND AFTER COMPLETION OF FINAL WORK. ALL FINISHED WORK (TOP OF STEM WALLS, TOP OF FOOTINGS, SLABS, PORCHES) TO BE FINISHED AS LEVEL AS POSSIBLE.
- 13. ADD SIMPSON HPAHD22 TIE DOWN STRAP TO ALL GARAGE WING WALLS AND ANY FOUNDATION WALL LESS THAN 2' LONG, IF REQUIRED PER LOCAL BUILDING DEPARTMENT.

SHEET NOTES

- CONTINUOUS FOUNDATION WALL BLOCK OUT AS 1 CONTINUOUS REQUIRED.
- (2) CRAWL SPACE ACCESS.
- (3) 4" CONCRETE SLAB ON 4" COMPACT GRAVEL BASE W/ 6" THICKENED SLAB EDGE TO FROSTLINE W/ 4" x 18" BAR @ 24" O.C.
- 4 ALL FOUNDATIONS, FOOTINGS, AND BALCONY/ROOF SUPPORT PIERS TO MAINTAIN A MINIMUM DEPTH OF 24" BELOW FINISH GRADE ELEVATION FOR FROST PROTECTION.
- (5) ANCHOR BOLTS PER R403.1.6 AS REQUIRED PER PORTAL FRAMING AT GARAGE DOORS
- (6) CONC. STOOP.
- SIMPSON POST BASE OR EQUAL.
- 24"x24" MIN. DEEP CONC. SUPPORT PIER@CONC. SLAB.
- BLOCK OUT PONY WALL FOR 18"x24" CRAWL ACCESS
- (10) 2" Ø x 48" STEEL PIPE BALUSTER SET IN A 12" x 12" x12"

STRUCTURAL IMPACT PROTECTION

CONCRETE FOOTING FOR MECHANICAL AND/OR

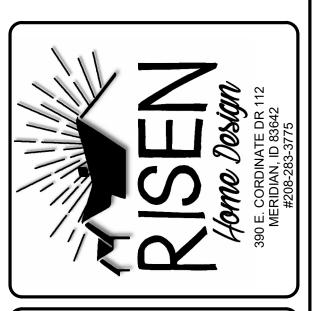


			(FIRST FI		OLD DOWN (HD) S EAR WALL TO CO	CHEDULE NCRETE FOUNDATION)			
		OPTION 1: EMBED STRAP HD							
MARK	MIN. STEM WALL	STRAP HD SIZE	STUD NAILS	EMBED LENGTH	SCREW HD SIZE	STUD SCREWS	ANCHOR BOLT	STUD/ POST	T ALLOW
A _F	6"	STHD10	(24) 16d	10	HDU2- SDS2.5	(6) SDS 1/4"x2 1/2"	5/8"Ø 'SSTB24' W/ 21" EMBED	(2) 2X	2640#
G _F	6"	N/A			HDU14- SDS2.5	(36) SDS 1/4"x2 1/2"	1"Ø 'PAB8' W/ 11" FTG. EMBED	6x6	14,445#

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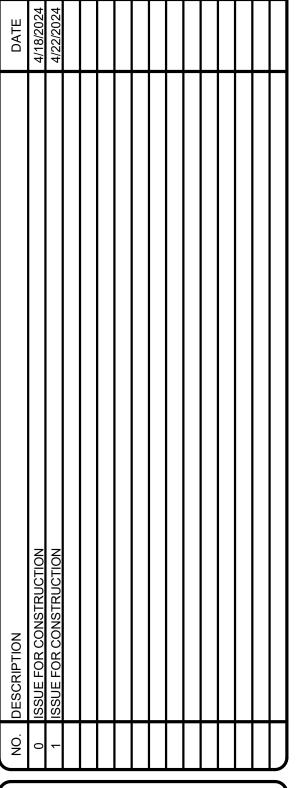
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GENERAL CONDITIONS



S SPRINGS BLK#1 BAY

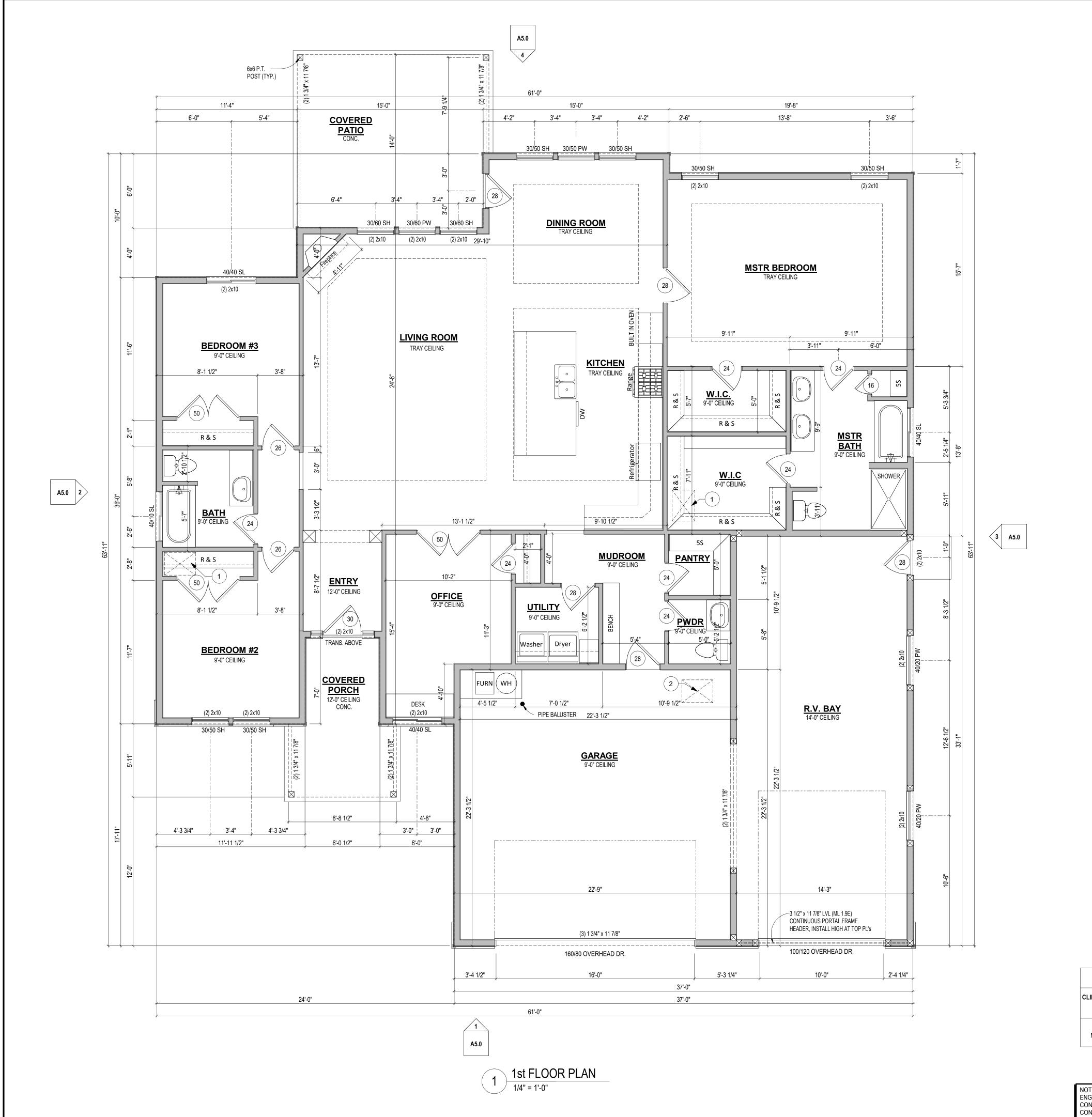
REVISIONS



SHEET TITLE **FOUNDATION PLAN**

RHD PROJECT NUMBER: RHD-1133 DRAWN BY: RMC DATE: 4/18/2024 DATE:4/18/2024 CHECKED BY: MM

A2.0



FLOOR PLAN NOTES

- ALL STRUCTURAL LUMBER SIDED FOR #2 OR BETTER DOUG FIR LARCH.
- 2. 2x EXTERIOR STUD FRAMING @ 16' O.C. W/ SINGLE BOTTOM
- PLATE AND DOUBLE TOP PLATE. 3. 4x8 HEADERS IN ALL BEARING WALL OPENING UNLESS
- OTHERWISE NOTED. 4. ALLOW FOR A 22' x 30' (MIN) ATTIC AND CRAWL SPACE
- ACCESS. 5. ALL METAL CONNECTIONS TO BE SIMPSON CO. OR BETTER 6. 5/8" TYPE 'X' GYP BOARD @ ALL GARAGE COMMON WALLS AND CEILINGS APPLIED TO GARAGE SIDE AND ALL WALLS, BEAMS, POSTS AND OTHER STRUCTURAL MEMBERS SUPPORTING FIRE PROTECTED HORIZONTAL STRUCTURAL MEMBERS.
- 7. DOORS BETWEEN GARAGE AND DWELLING ARE TO BE SELF CLOSING AND TIGHT FITTING SOLID WOOD DOOR 1 3/8" THICK OR A DOOR W/ A FIRE PROTECTION RATING OF NOT LESS THAN 20 MINUTES.
- 8. 1/2" GYPSUM BOARD TO BE INSTALLED ON INSIDE WALLS OF
- 9. ALL WINDOWS TO HAVE BREATHER TUBES INSTALLED.
- 10. ROOF SYSTEM TO BE PRE-ENGINEERED MANUFACTURED ROOF TRUSSES UNLESS OTHERWISE NOTED.
- 11. ALL CONSTRUCTION PRACTICES USED IN THE CONSTRUCTION OF THIS DWELLING SHALL BE DONE IN ACCORDANCE W/ THE
- 2018 WHERE APPLICABLE. 12. VENT RANGE HOOD, FANS, AND DRYER TO OUTSIDE AIR. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS
- PRIOR TO COMMENCING WORK. 13. ALL RESCUE WINDOWS FROM SLEEPING AREAS MUST MEET THE FOLLING REQUIREMENTS:
- 1. SHALL HAVE A NET CLEAR OPENING OF 5.1 SQ. FT. 2. MINIMUM HEIGHT OF 24". 3. MINIMUM WIDTH OF 20".
- 4. FINISHED SILL HEIGHT OF NOT MORE THAN 44". 14. EXTERIOR DIMENSIONS ARE TO FACE OF STUD WALL. INTERIOR
- DIMENSIONS ARE TO FACE OF STUD WALL. 15. ALL FURNACE SWITCHES, PILOTS, AND BURNERS TO BE MINIMUM 18" ABOVE FINISHED FLOOR.

SQ/FT. 2216 SF 1ST FLOOR GARAGE

505 SF 471 SF COVERED PORCH 94 SF COVERED PATIO 214 SF

R.V. BAY

SHEET NOTES

- (1) CRAWL SPACE ACCESS. COORDINATE WITH JOIST LAYOUT.
- (2) ATTIC SPACE ACCESS. COORDINATE WITH TRUSS LAYOUT.

DOOR/WINDOW TAG EXAMPLE

DOOR TAG WINDOW TAG (26) = 2'-6" | 40/56 SH = 4'-0" x 5'-6" SINGLE HUNG

NOTE: VERIFY ALL WINDOW/DOOR ROUGH OPENING AND HEADER HEIGHT AND THE SAME FOR TRIM PACKAGE. VERIFY STANDARD HEIGHTS WITH CONTRACTOR BEFORE FRAMING.

SEE 2018 IRC

R302.7 PROVIDE UNDERSTAIR PROTECTION AS REQUIRED R302.11 PROVIDE FIREBLOCKING AS REQUIRED R303.7 PROVIDE SWITCHING AND ILLUMINATION AS REQUIRED R305 PROVIDE SUFFICIENT CEILING HEIGHTS R311.7 MEET STAIRWAY REQUIREMENTS

R312 MEET GUARD REQUIREMENTS

TABLE R402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT										
IMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAM WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE	CRAWLSPACE WALL R-VALUE
5 AND MARINE 4	0.35	0.60	NR	38	20 OR 13+5 ^h	13/17	₃₀ g	10/13	10, 2 ft	10/13

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GENERAL CONDITIONS DRAWINGS & SPECIFICATIONS

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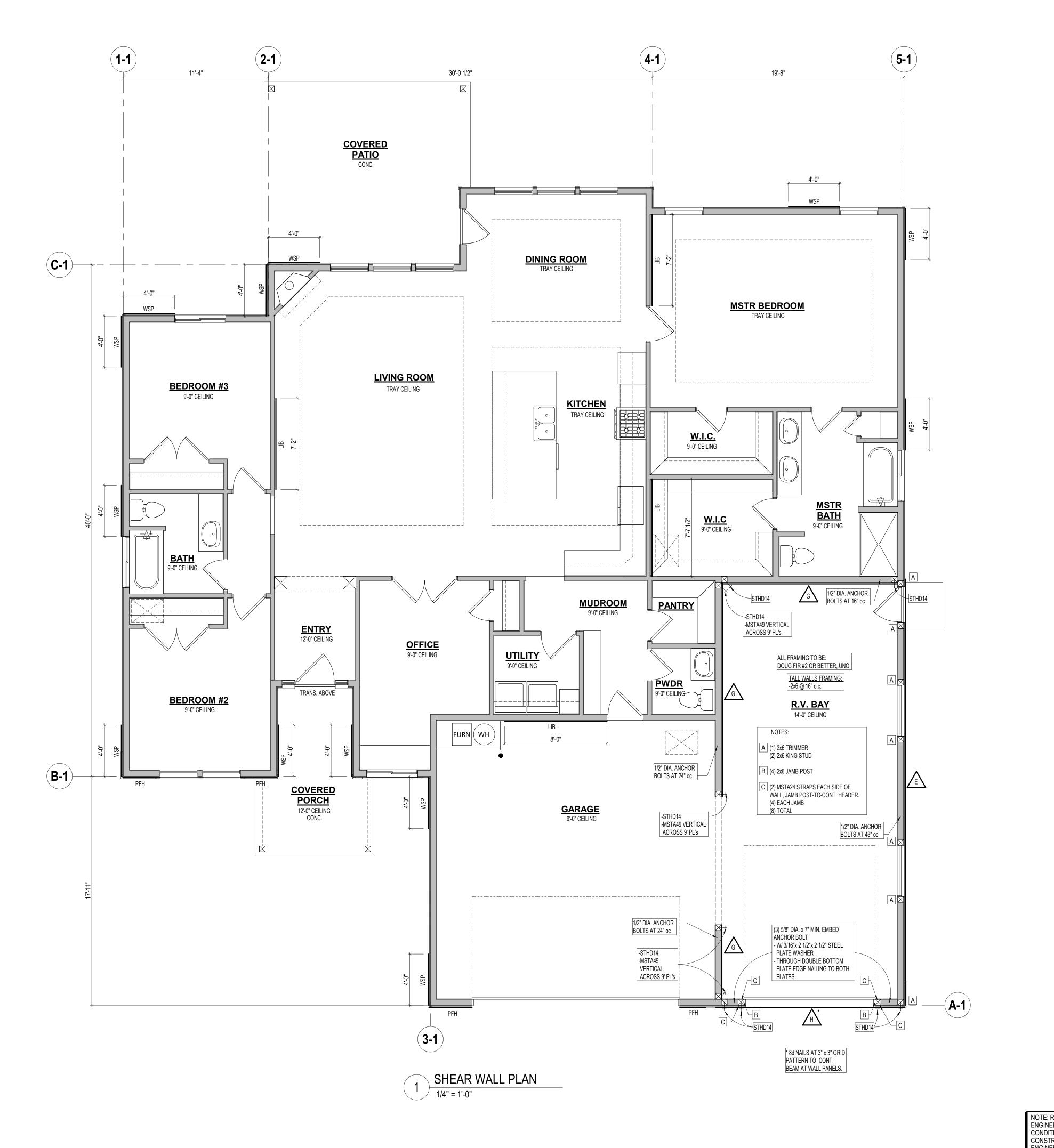
REVISIONS

SHEET TITLE 1st FLOOR

PLAN

RHD PROJECT NUMBER: RHD-1133 DRAWN BY: RMC DATE: 4/18/2024 CHECKED BY: MM DATE:4/18/2024

A3.0



GENERAL NOTES

ALL EXTERIOR WALL SHALL BE SHEATHED w/7/16" OSB. ATTACH WITH MIN. 16 GA. X 1 3/4" LEG STAPLES AT 6"o.c. TO ALL SUPPORTED PANEL EDGES AND AT 6"o.c. IN THE FIELD. U.N.O.

STAPLES SHALL NOT BE SUBSTITUTED FOR COMMON NAILS AT SHEAR PANELS.
ALL SHEAR PANELS SHALL HAVE DOUBLE STUDS AT ENDS FOR EDGE NAILING AND ATTACHMENT OF STRAPS AND/OR HOLD DOWNS, TYP.

ALL HOLD DOWNS SHALL ALIGN AT DOUBLE STUDS AT ENDS OF SHEAR PANELS, TYP.

PROVIDE 'SIMPSON' H1 AT ALL TRUSS BEARING LOCATIONS.

ALL SHEATHING SHALL BE CONTINUOUS TO FLOOR/PLATE BEHIND ALL ATTACHED ROOF FRAMING INTO WALL.

PROVIDE DOUBLE STUD ABOVE AND BELOW ALIGNED AT STRAPS BETWEEN FLOORS FOR STRAP ATTACHMENT, WITH PANEL EDGE NAILING FOR FULL HEIGHT OF DOUBLE STUD.

PROVIDE GALVANIZED NAILS INTO PRESERVATION TREATED SILL PLATES. NAIL SIZE AND SPACING TO MATCH SHEAR WALL SPECIFIED. PROVIDE 8d GALVANIZED NAILS AT SAME SPACING WHERE STAPLES USED.

AT MINIMUM, PROVIDE REINFORCING BARS IN FOUNDATION AT HOLD DOWN LOCATIONS PER MANUFACTURE'S REQUIREMENTS

SHEAR WALL SCHEDULE

E

7/16" OSB w/ 8d COMMON NAILS AT 6"o.c. TO ALL PANEL EDGES & 12"o.c. IN THE FIELD (PROVIDE BLOCKING AT ALL PANEL EDGES)

7/16"OSB w/ 8d COMMON NAILS AT 3"o.c. TO



ALL PANEL EDGES & 12"o.c. IN THE FIELD (PROVIDE BLOCKING AT ALL PANEL EDGES)

7/16" OSB w/ 8d COMMON NAILS AT 2"o.c. TO

ALL PANEL EDGES & 12"o.c. IN THE FIELD (PROVIDE BLOCKING AT ALL PANEL EDGES)

BRACING DETAILS

METHOD

MATERIAL

CONNECTION CRITERIA

SP

WOOD STRUCTURAL PANEL (SEE SECTION R604) EXTERIOR SHEATHING: SEE IRC TABLE
R6023(3) INTERIOR SHEATHING: SEE IRC

MANUFACTURER

R6023(3) INTERIOR SHEATHING: SEE IRC
TABLE R6023(1)
INTERMITTENT PORTAL FRAME
SEE SECTION R602.10.3.3
LET-IN BRACING
WOOD: 2-8d NAILS PER STUD INCLUDING
TOP AND BOTTOM PLATE METAL: PER

GENERAL CONDITIONS

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DRAWINGS & SPECIFICATIONS

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K#1 BAYHILL SUBDIVISION
D
/ALL PLAN

NO. DESCRIPTION

1 ISSUE FOR CONSTRUCTION

2 ISSUE FOR CONSTRUCTION

3 ISSUE FOR CONSTRUCTION

4/22/2024

5 ISSUE FOR CONSTRUCTION

5 ISSUE FOR CONSTRUCTION

6 ISSUE FOR CONSTRUCTION

7 ISSUE FOR CONSTRUCTION

8 ISSUE FOR CONSTRUCTION

9 ISSUE FOR CONSTRUCTION

1 ISSUE FOR CONS

SHEAR WALL PLAN

SHEET TITLE

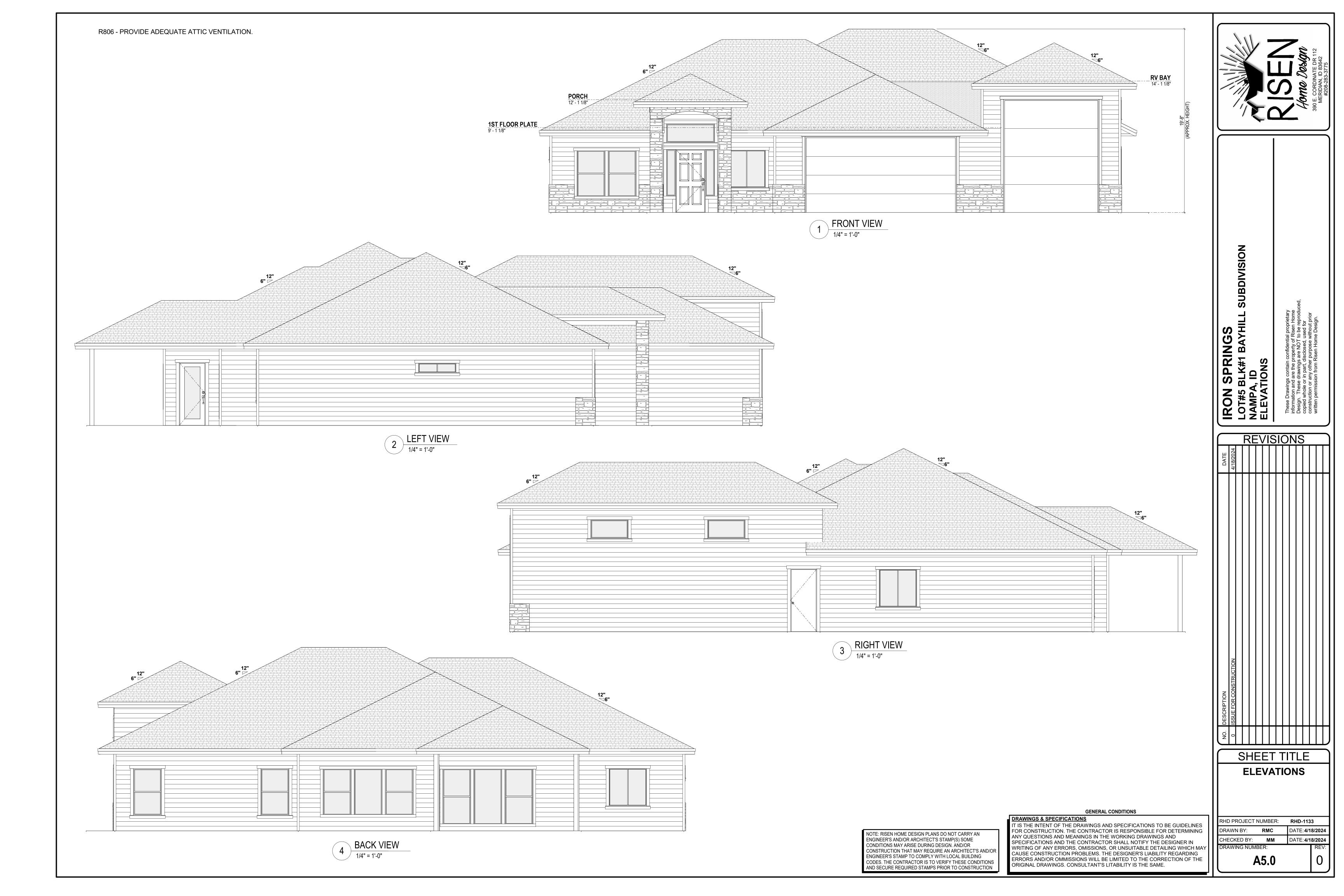
RHD PROJECT NUMBER: RHD-1133

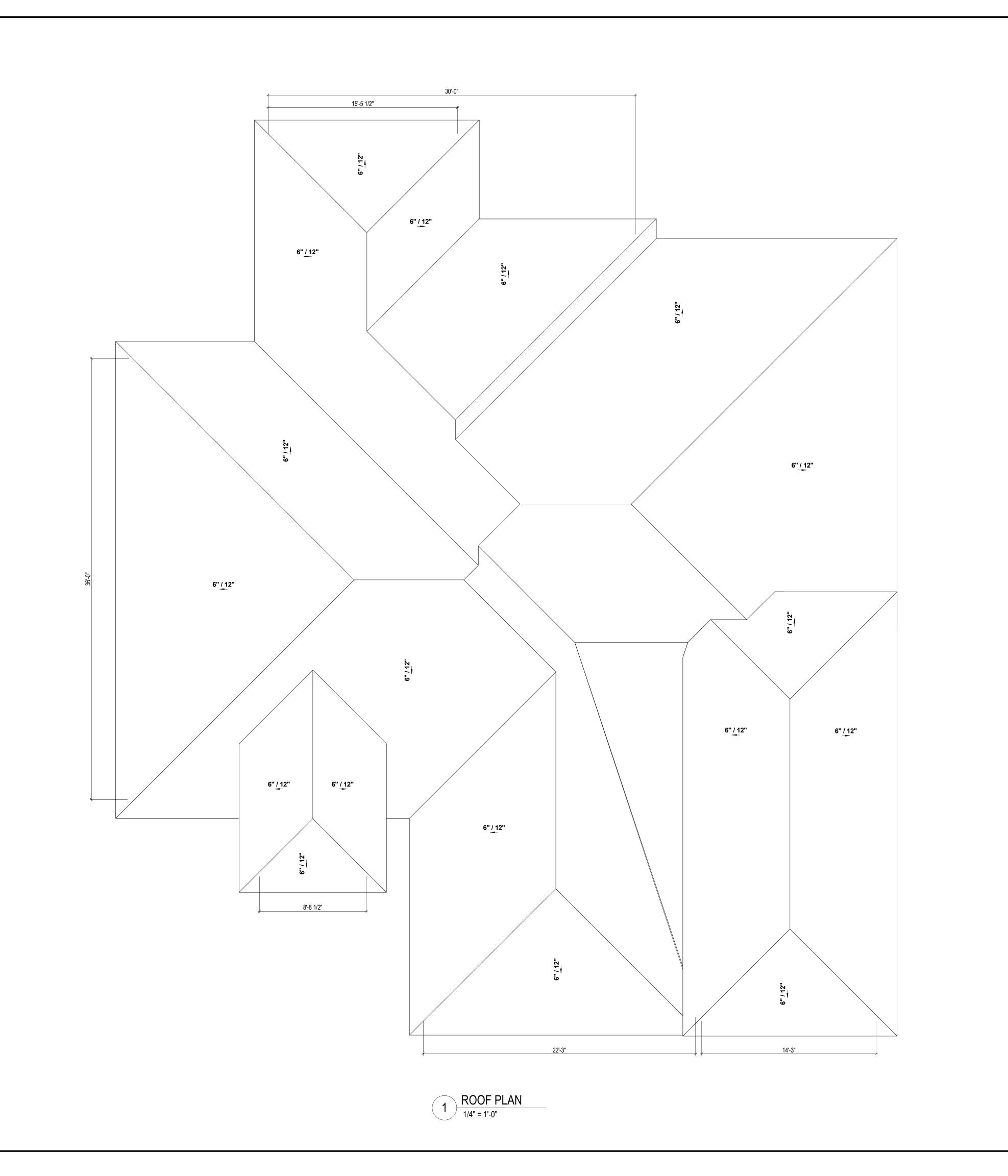
DRAWN BY: MM DATE: 4/22/2024

CHECKED BY: - DATE: 4/22/2024

DRAWING NUMBER: REV:

A4.0





ROOF NOTES

1. TRUSS LAYOUT AND DESIGN TO BE SPECIFIED BY LOCAL TRUSS COMPANY. BUILDING CONTRACTOR TO VERIFY ALL TRUSS LAYOUTS WITH TRUSS COMPANY BEFORE ORDERING. ALL TRUSS PROBLEMS TO BE ADDRESSED BY CONTRACTOR AND TRUSS

2. ALL ROOF AND SOFFIT VENTS TO BE INSTALLED ACCORDING TO U.B.C. AND APPLICABLE LOCAL CODES.

3. ALL TOTAL SPANS MAY VARY DEPENDING ON GIRDER TRUSS PLACEMENT. (IF

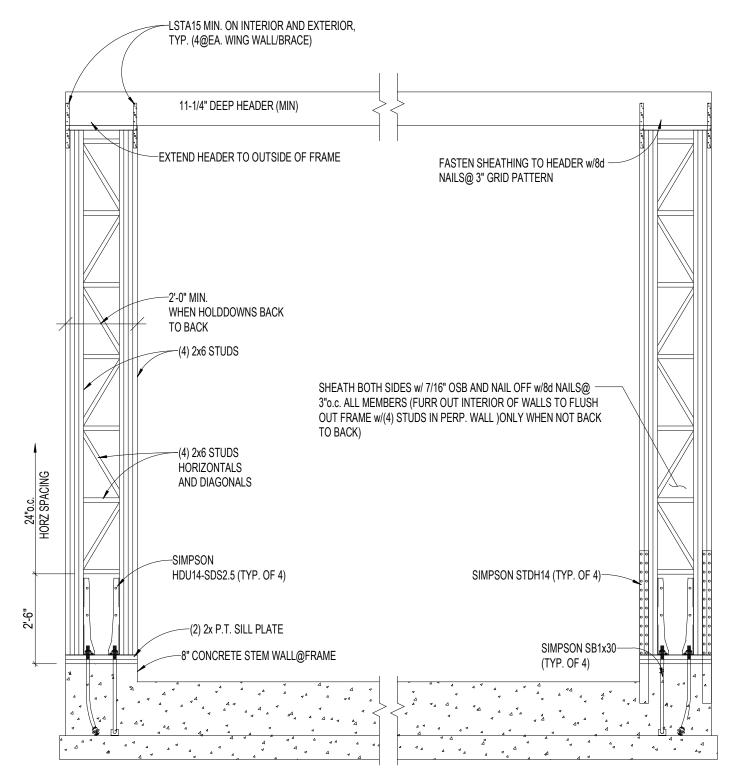
4. ALL WINDOW HEADERS, GARAGE DOOR HEADER AND MICRO-LAM BEAMS UNDER ROOF LOAD TO BE SPECIFIED BY LOCAL TRUSS COMPANY.

5. TRUSS COMPANY TO CONFIRM DESIGN ROOF SNOW LOAD SHOWN WITH COUNTY REQUIREMENTS OF THIS HOUSE LOCATION.

DESIGN CRITERIA

LOCATION: (CITY) NAMPA (COUNTY) CANYON DESIGN ROOF SNOW LOAD: 30PSF
DESIGN WIND SPEED: 115MPH DESIGN WIND EXPOSURE TYPE:_ DESIGN EARTH QUAKE ZONE:___ FROST DEPTH:____24"____





NOTE: RISEN HOME DESIGN PLANS DO NOT CARRY AN

ENGINEER'S STAMP TO COMPLY WITH LOCAL BUILDING

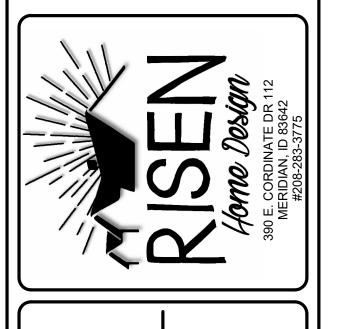
ENGINEER'S AND/OR ARCHITECT'S STAMP(S) SOME

CONDITIONS MAY ARISE DURING DESIGN. AND/OR

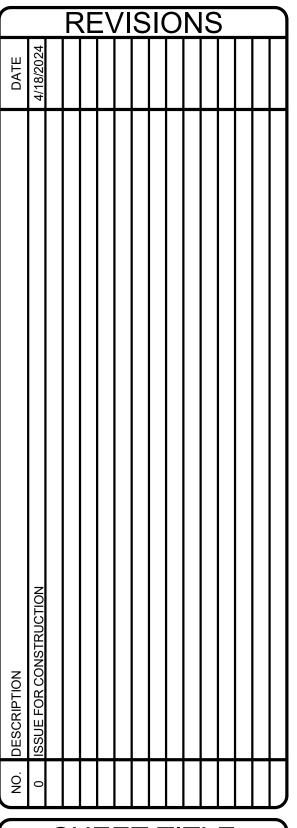
GENERAL CONDITIONS

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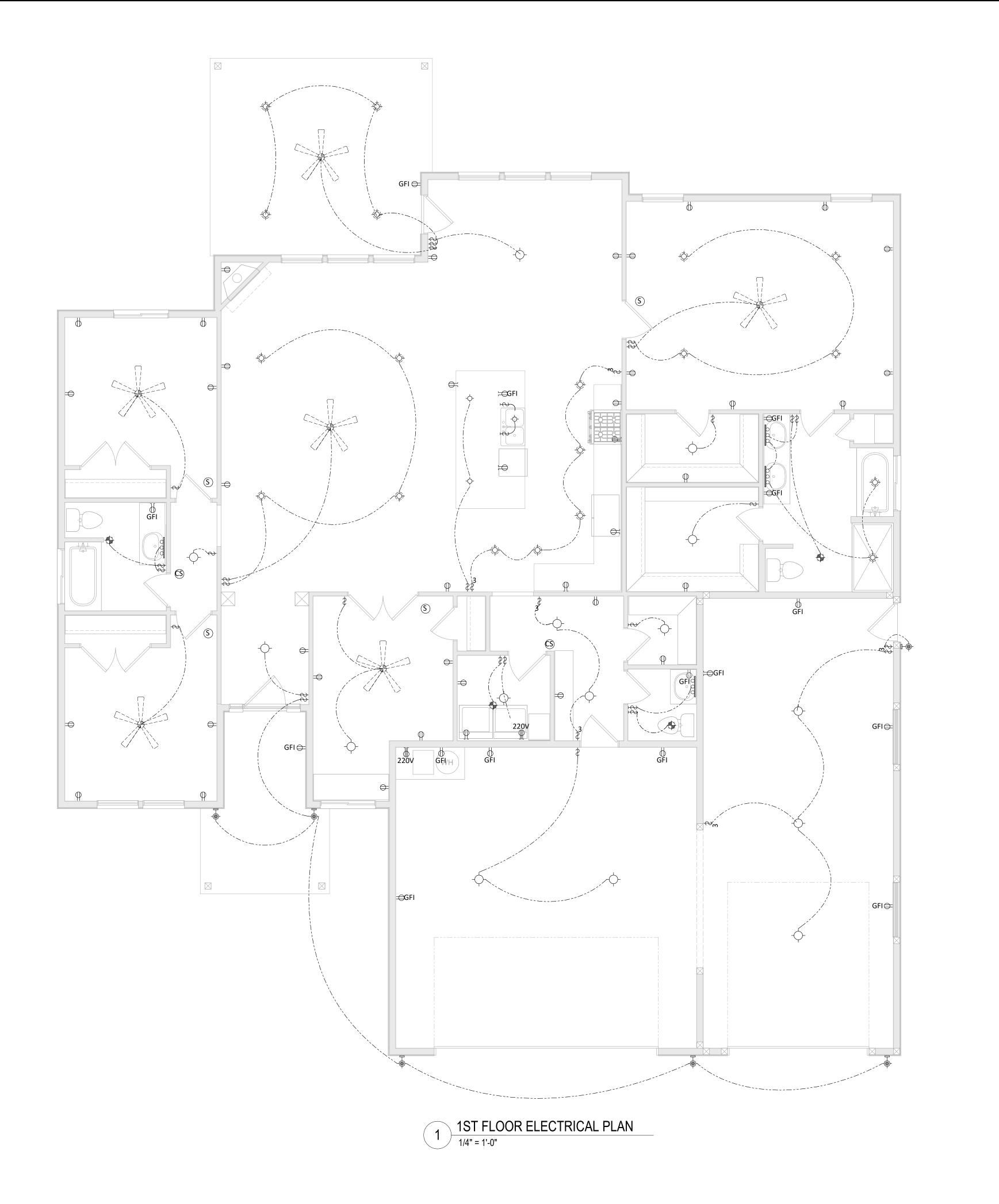
SUBDIVISION

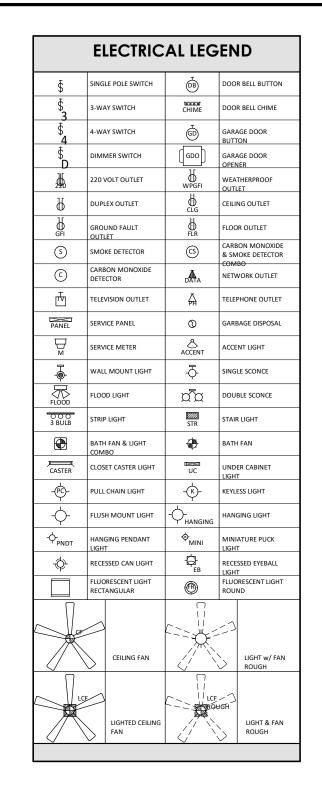


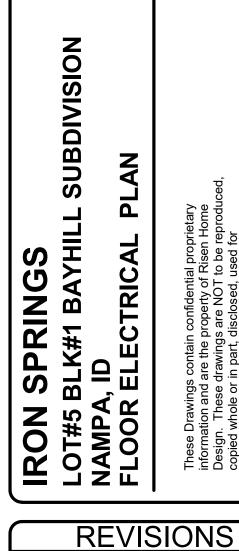
SHEET TITLE **ROOF PLAN**

RHD PROJECT NUMBER: RHD-1133 DRAWN BY: RMC DATE:4/18/2024 CHECKED BY: MM
DRAWING NUMBER: DATE:4/18/2024

A6.0







NO. DESCRIPTION

1 ISSUE FOR CONSTRUCTION

2 ISSUE FOR CONSTRUCTION

4/18/202

SHEET TITLE

ELECTRICAL

PLAN

RHD PROJECT NUMBER: RHD-1133

DRAWN BY: RMC DATE:4/18/2024

CHECKED BY: MM DATE:4/18/2024

DRAWING NUMBER: REV:

A7.0

ANY QUESTIONS AND MEANINGS IN THE WORKING DRAWINGS AND SPECIFICATIONS AND THE CONTRACTOR SHALL NOTIFY THE DESIGNER IN WRITING OF ANY ERRORS, OMISSIONS, OR UNSUITABLE DETAILING WHICH MAY CAUSE CONSTRUCTION PROBLEMS. THE DESIGNER'S LIABILITY REGARDING ERRORS AND/OR OMMISSIONS WILL BE LIMITED TO THE CORRECTION OF THE ORIGINAL DRAWINGS. CONSULTANT'S LITABILITY IS THE SAME.

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