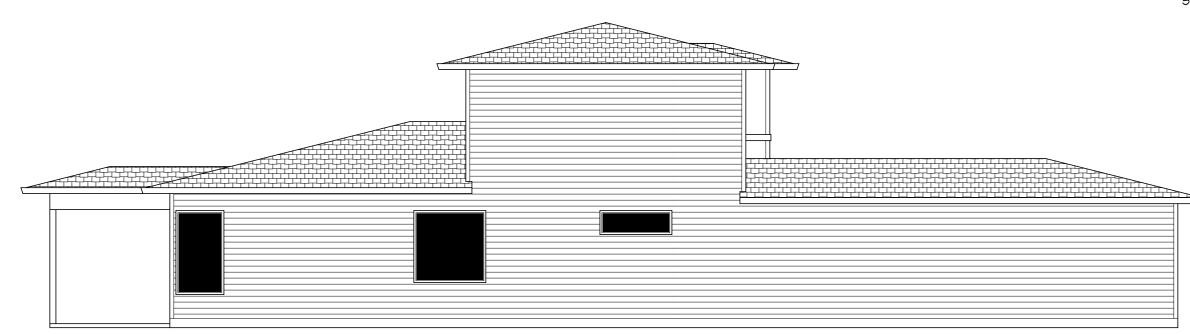




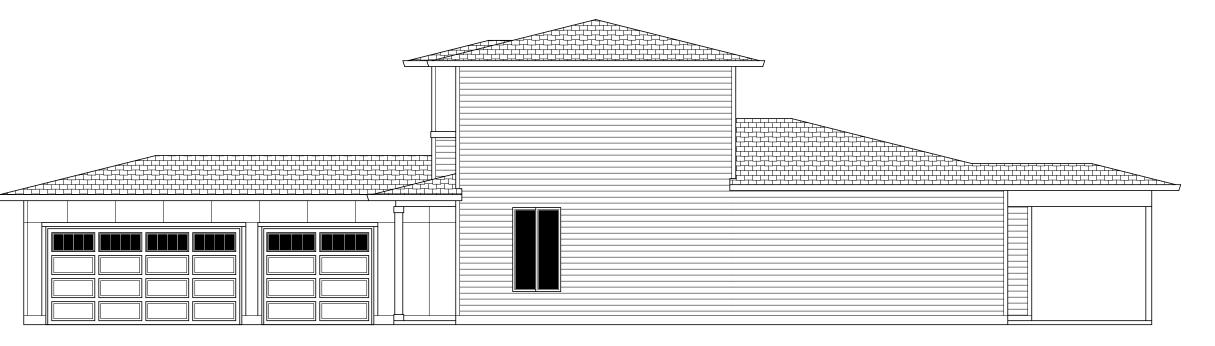


REAR ELEVATION

SCALE 1/8"=1'0"



LEFT SIDE ELEVATION SCALE 1/8"=1"0"



RIGHT SIDE ELEVATION SCALE 1/8"=1"0"

GOVERNING DESIGN CODES:

2021 INTERNATIONAL RESIDENTIAL CODE

2021 WSEC (WASHINGTON STATE ENERGY CODE)

(WITH WASHINGTON STATE AMENDMENTS

SEE NOTE IN 2021 WASHINGTON STATE ENERGY CODE DETAIL

FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF

THE SUBFLOOR DECKING, INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24-INCHES O/C. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR

UNDER SLAB: R-10 RIGID INS. 48" HORIZONTAL LENGTH MIN. ENERGY CREDITS 1.2, 1.3 & 1.4 REQUIRE PERIMETER AND UNDER ENTIRE SLAB TO BE INSULATED.

NOTICE: FASTENERS FOR PRESSURE PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR PER IRC R502 ALL BEAMS, RAFTERS, JOIST, HDR'S, POSTS AND STUDS

ALL EXTERIOR DECKS EXPOSED TO WEATHER MUST UTILIZE WEATHER-RESISTANT WOOD SUCH AS CEDAR,

REDWOOD, MOHOGANY OR PRESSURE-TREATED WOOD IN ACCORDANCE WITH IRC SECTION R502.1.1.1/R317.2

ARE TO BE DF#2 GRADE UNLESS OTHERWISE NOTED ON PLAN. ALL WOOD IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED PER 2021 IRC R502

GALVANIZED FLASHING REQUIRED ABOVE BELLY BANDS, WINDOW AND DOOR TRIM, DECKS AND ALL OTHER SIMILAR

FIELD VERIFY DIMENSIONS ELEVATIONS RETALIATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS

FOR FEATURE CONSTRUCTION, FIELD VERIFY DIMENSIONS ON LOT WITH SETBACKS AND ELEVATIONS RETALIATIVE TO HEIGHT LIMITS PER CCR'S OR PER LOCAL JURISDICTIONS.

APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURES

INSTRUCTIONS. ADEQUATELY BRACING STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH

AND SEISMIC FORCES UNTIL THE THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.

= 6×6 POST OR 3× STUDS SOLID

4XIØ HDR MIN. 8'-0" CEILINGS W/ R-IØ INS 4XIØ HDR MIN. 9'-0" CEILINGS W/ R-IØ INS

HALLWAYS (R311.6)

EGRESS DOOR (R311.2)

4XIO HDR MIN. 10'-0" CEILINGS W/ R-10 INS

PROVIDE BLOCKING BETWEEN STUDS (OR OTHER MEANS OF BRACING) AT WOOD BEARING WALLS TO PREVENT STUD BUCKLING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD

■ = 4x6 POST OR 3x STUDS MEMBERS LIVE 40 PSF

LIVE 60 PSF

■ = 4×4 POST OR 2× STUDS IN PLEX'S ROOF TYPICAL HDR *UNLESS SPECIFIED BY E.O.R. LIVE 25 PSF DEAD 15 PSF

POSITIVE CONNECTION AT POST BASE AND CAP REQUIRED
 FOR 4x4 POST
 SIMPSON "EPB44" POST BASE OR EQU.

 CONNECTIONS
 SIMPSON "ACH4Z" POST CAP OR EQU.

FOR 6X6 POST SIMPSON "EPB66" POST BASE OR EQU. CONNECTIONS SIMPSON "ACH6Z" POST CAP OR EQU.

DESIGN LOADS GROUND SNOW LOAD TO BE DETERMINED BY 2021 IRC FIGURE R301.2(3). C9-91TE SPECIFIC CASE STUDY NEEDED BY LOCAL COUNTY CODES.

THE MINIMUM WIDTH OF A HALLWAY SHALL BE NOT LESS THAN 3 F1

AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED AND

SHALL PROVIDE A MINMUM CLEAR WIDTH OF 32 INCHES WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP.

BE LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. EGRESS DOORS SHALL BE READILY OPERABLE FROM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (28).

BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF

NOT MORE THAN 44 INCHES ABOVE THE FLOOR. R3IO.2.I MINIMUM OPENING AREA. ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING C 5.7 SQUARE FEET. I-STORY MAY BE REDUCED TO 5.0 SQUARE FEET R310.2.1 MINIMUM OPENING, HEIGHT. THE MINIMUM NET CLEAR OPENING

HEIGHT SHALL BE 24 INCHES. R310.2.1 MINIMUM OPENING WIDTH. THE MINIMUM NET CLEAR OPENING

R310.2 EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.

IMMEDIATE VICINITY OF THE BEDROOMS, 3, ON EACH
ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS
AND HABITABLE ATTICS AND NOT INCLUDING CRAWL SPACES
AND UNINHABITABLE ATTICS, IN DWELLINGS OR DWELLING UNITS
WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR

BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL. 4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FT (914 MM)

HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM

R314.4 INTERCONNECTION. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT IN ACCORDANCE WITH SECTION R314.3, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE BEQUIRED WHERE ISTED WIRE FESS ALARMS ARE

BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF

R315.2.1 NEW CONSTRUCTION. FOR NEW CONSTRUCTION, CARBON MONOXIDE ALARMS SHALL BE PROVIDED IN DWELLING UNITS WHERE EITHER OR BOTH OF THE FOLLOWING CONDITIONS EXIST

THE DWELLING UNIT CONTAINS A FUEL-FIRED APPLIANCE. THE DWELLING UNIT HAS AN ATTACHED GARAGE WITH AN OPENING THAT COMMUNICATES WITH THE DWELLING UNIT.

OCCUR, OR WHERE ONE OR MORE SLEEPING ROOMS ARE

ADDED OR CREATED IN EXISTING DWELLINGS, THE INDIVIDUAL DWELLING UNIT SHALL BE EQUIPPED WITH CARBON MONOXIDE ALARMS LOCATED AS REQUIRED FOR NEW DWELLINGS.

R315.2.2 ALTERATIONS, REPAIRS AND ADDITIONS. WHERE ALTERATIONS, REPAIRS OR ADDITIONS REQUIRING A PERMIT

CARBON MONOXIDE ALARMS: 2021 IRC R315

REQUIRED BY THIS SECTION.

SMOKE ALARMS 2021 IRC (R314 AND NFPA 72) 2021 IFC (R907) R314.3 LOCATION - SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: 1. IN EACH SLEEPING ROOM. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE

FLOORS AND LANDINGS AT EXTERIOR DOORS (R311.3)

EMERGENCY ESCAPE AND RESCUE REQUIRED (R310.1)

GUTTER AND DOWNSPOUTS TO APPROVED DRAINAGE RAIN AND LOW POINT DRAINS TO BE SCHEDULE 40

2021 WASHINGTON STATE ENERGY CODE:

FLAT ROOF CAVITIES: R-60 MIN. R-490 EXTERIOR PLATE TRUSS VAULTED CEILINGS: R-38 MIN. IF FULL INSULATION DEPTH EXTENDS OVER THE TOP PLATE OF THE WALL.

WALL INSULATION INSTALLATION TABLE R402.4.1.1

2×6 WALLS: R-20+R5 CONTINUOUS

FLOORS 2021 WSEC R402.2.7

FLASHING REQUIREMENTS: R703.4

PYC OR ABS WITH DWY FITTINGS

FLOOR: R-30 MIN.

INSULATION

INSULATION R-YALUES: 2021 WSEC TABLE R402.1.3

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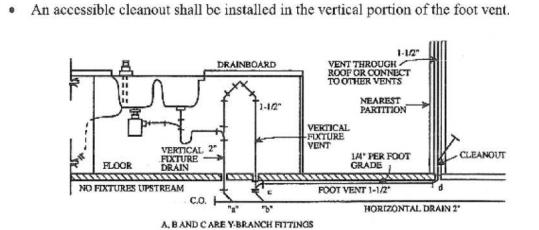
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ISLAND SINK VENTING

The following is a list of the general requirements for special venting for island fixtures This handout is intended to provide only general information.

Island Sink Venting.

- Traps for island sinks and similar equipment shall be roughed in above the floor and shall be permitted to be vented by extending the vent as high as possible, but not less than the drain board height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical sink fixture drain.
- The return vent shall be connected to the horizontal drain through a wye-branch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye branch immediately below the floor and extending to the nearest partition and then through the roof to the open air, or shall be permitted to be connected to other vents at a point not less than 6 inches above the floor-level rim of the fixtures served.
- Drainage fittings shall be used on the vent below the floor level, and a slope of not less than 1/4 inch per foot back to the drain shall be maintained.
- The return bend used under the drain board shall be a one piece fitting or an assembly of a 45 degree, a 90 degree, and a 45 degree elbow in the order named.
- Pipe sizing shall be as elsewhere required in this code.
- The island sink drain, upstream of the returned vent, shall serve no other fixtures.



R317 STARWAYS STARWAYS SHALL NOT BE LESS THAN 36" (WHEN PINSHED W/SR) WDTH AT ALL PONTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT. R311.7 STAIRWAY WALKING SURFACE.
THE WALKING SURFACE OF TREADS AND LANDINGS OF
STAIRWAYS SHALL BE SLOPED NO STEEPER THAN ONE
UNIT VERTICAL IN 48 INCHES HORIZONTAL (2% SLOPE). — RADIUS OF NOSING 9/16" MAX OR 1/2" MAXIMUM BEVEL STAIR TREADS AND RISERS (R311.7.5) TREAD OVERHANG 1/2" GWB OPT. SIMPSON_ HL33 BRACKET 1/2" PLYWOOD RISERS -(3) 2X12 STRINGERS -5/8" TYPE "X" GWB ----OPT. OPEN REERS PROVIDED — THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE 1/2 WALL WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6 INCHES AT ANY POINT, WITHIN ANY FLIGHT OF STARS, THE GREATEST WINDER TREAD DEPTH AT THE 2 INCH WALK LINE SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCHES. ∕ 4" DIA MAX (3) 2×12 STRINGERS TREAD DEPTH (R31L7.5.2) R311.1.8 HANDRAILS.
HANDRAILS SHALL BE PROVIDED ON AT LEAST
ONE SIDE OF EACH CONTINUOUS RUN OF TREADS
OR FLIGHT WITH FOUR OR MORE RISERS. THE MINIMUM TREAD DEPTH SHALL BE 10 INCHES.
THE TREAD DEPTH SHALL BE MEASURED
HORIZONTALLY BETWEEN THE VERTICAL PLANES OF
THE FOREMOST PROJECTION OF ADJACENT TREADS R31.7.8.1 HEIGHT.
HANDRAIL HEIGHT, MEASURED VERTICALLY FROM
THE SLOPED PLANE ADJOINING THE TREAD NOSING,
OR FINISH SURFACE OF RAMP SLOPE, SHALL NOT BE
LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES. INL PURELLUDI PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S LEADING EDGE. R311.7.6 LANDINGS FOR STAIRWAYS. R3II.16 LANDINGS FOR STAIRWAYS.

THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH PERPENDICULAR TO THE DIRECTION OF TRAVEL SHALL BE NOT LESS THAN THE WIDTH OF THE FLIGHT SERVED. LANDINGS OF SHAPES OTHER THAN SQUARE OR RECTANGULAR SHALL BE PERMITTED PROVIDED THAT THE DEPTH AT THE WALK LINE AND THE TOTAL AREA IS NOT LESS THAN THAT OF A QUARTER CIRCLE WITH A RADIUS EQUAL TO THE REQUIRED LANDING WIDTH. WHERE THE STAIRWAY HAS A STRAIGHT RUN, THE DEPTH IN THE DIRECTION OF TRAVEL SHALL BE NOT LESS THAN 36 INCHES. R3I.T.8.2 CONTINUITY.

HANDRAILS FOR STAIRWAYS SHALL

BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT,

FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE

FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER

OF THE FLIGHT. HANDRAIL ENDS SHALL BE RETURNED OR

SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS.

HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF

NOT LESS THAN 1-1/2 INCH BETWEEN THE WALL AND THE

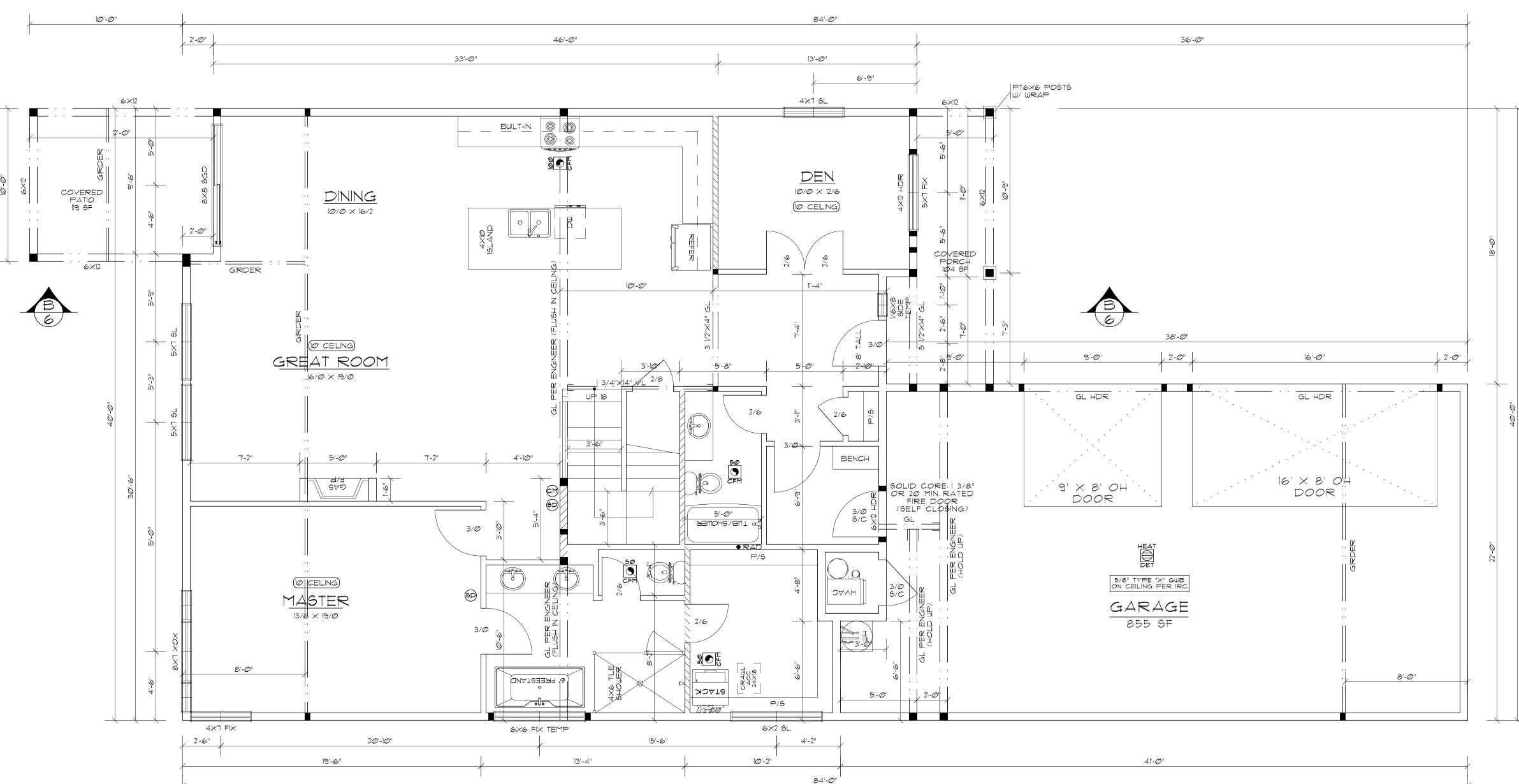
HANDRAILS. EXCEMIONO:

1. HANDRAILS SHALL BE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT THE TURN.

2. THE USE OF A VOLUTE, TURNOUT, STARTING EASING OR STARTING NEWEL SHALL BE ALLOWED OVER THE LOWEST TREAD. EXCEPTION: A FLOOR OR LANDING 16 NOT REQUIRED AT THE TOP OF AN INTERIOR FLIGHT OF STAIRS, INCLUDING STAIRS IN AN ENCLOSED GARAGE, PROVIDED THAT A DOOR DOES NOT SWING OVER THE STAIRS. STAIR TREADS AND RISERS (R311.7.5) RISER HEIGHT (R311.7.5.1) TYPICAL STAIR DETAIL

THE MAXIMUM RISER HEIGHT SHALL BE 1-3/4 INCHES, THE RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS, THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

SCALE: NTS PER 2021 IRC



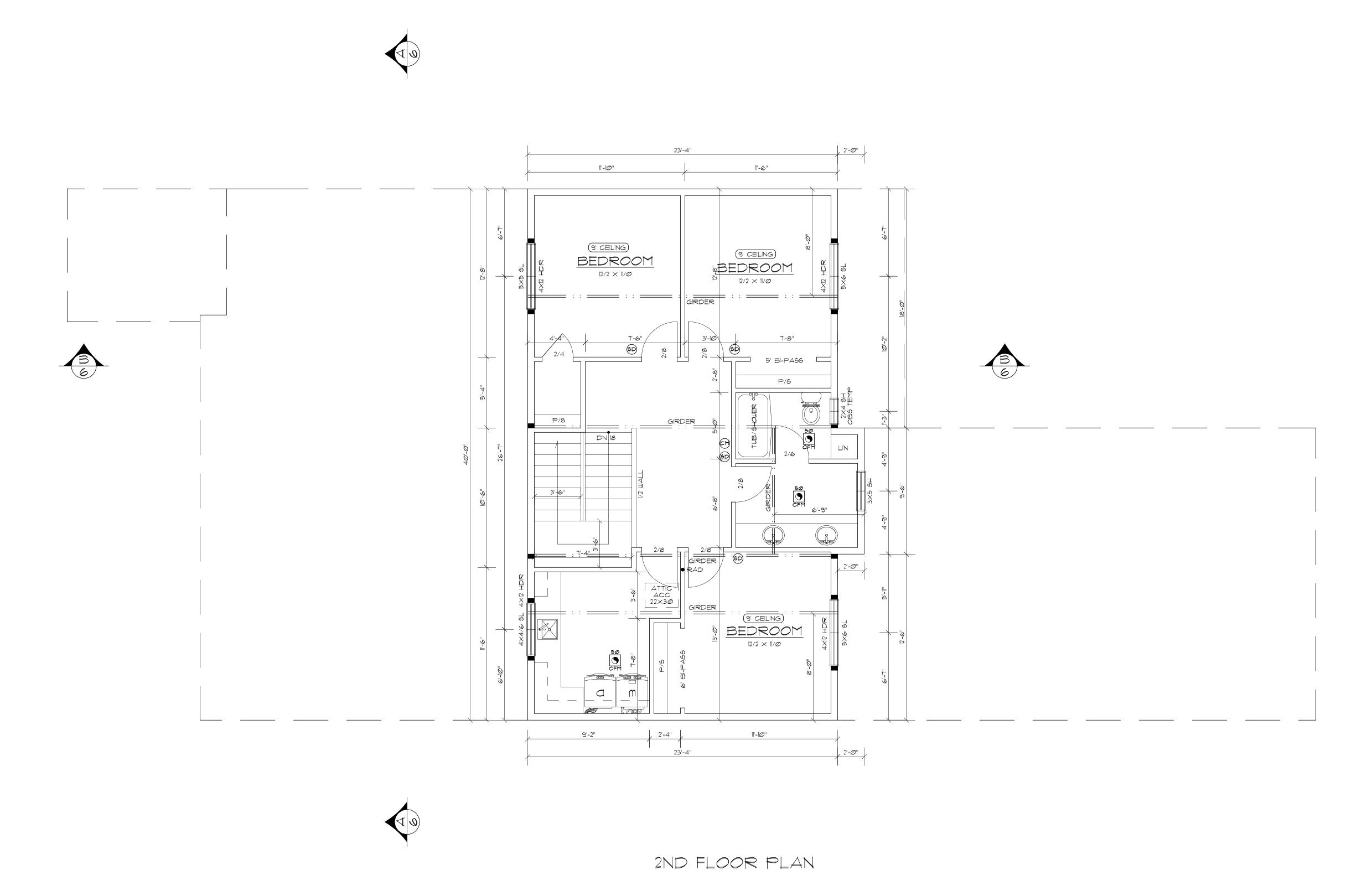
1ST FLOOR PLAN

SCALE 1/4"=1"Ø"

1ST FLOOR 1824 SF 2ND FLOOR 878 SF 27Ø2 SF

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SCALE 1/4"=1'0"

GOVERNING DESIGN CODES: 2021 INTERNATIONAL RESIDENTIAL CODE (WITH WASHINGTON STATE AMENDMENTS) 2021 WSEC (WASHINGTON STATE ENERGY CODE)

2021 WASHINGTON STATE ENERGY CODE: WALL INSULATION INSTALLATION TABLE R402.4.1.1 SEE NOTE IN 2021 WASHINGTON STATE ENERGY CODE DETAIL INSULATION R-VALUES: 2021 WSEC TABLE R402.1.3

2×6 WALLS: R-20+R5 CONTINUOUS FLAT ROOF CAVITIES: R-60 MIN. R-490 EXTERIOR PLATE TRUSS VAULTED CEILINGS: R-38 MIN. IF FULL INSULATION DEPTH EXTENDS OVER THE TOP PLATE OF THE WALL. FLOOR: R-30 MIN. FLOORS 2021 WSEC R402.2.7

FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24-INCHES O/C. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION UNDER SLAB: R-10 RIGID INS. 48" HORIZONTAL LENGTH MIN. ENERGY CREDITS 1.2, 1.3 & 1.4 REQUIRE PERIMETER AND UNDER ENTIRE SLAB TO BE INSULATED.

ALL EXTERIOR DECKS EXPOSED TO WEATHER MUST UTILIZE WEATHER-RESISTANT WOOD SUCH AS CEDAR, REDWOOD, MOHOGANY OR PRESSURE-TREATED WOOD IN ACCORDANCE WITH IRC SECTION R502.1.1.1/R317.2 NOTICE: FASTENERS FOR PRESSURE PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR PER IRC R502 ALL BEAMS, RAFTERS, JOIST, HDR'S, POSTS AND STUDS ARE TO BE DF#2 GRADE UNLESS OTHERWISE NOTED

ON PLAN. ALL WOOD IN CONTACT WITH CONCRETE MUST

BE PRESSURE TREATED PER 2021 IRC R502 FLASHING REQUIREMENTS: R703.4 GALVANIZED FLASHING REQUIRED ABOVE BELLY BANDS, WINDOW AND DOOR TRIM, DECKS AND ALL OTHER SIMILAR GUTTER AND DOWNSPOUTS TO APPROVED DRAINAGE RAIN AND LOW POINT DRAINS TO BE SCHEDULE 40

PYC OR ABS WITH DWY FITTINGS FIELD VERIFY DIMENSIONS ELEVATIONS RETALIATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS. FOR FEATURE CONSTRUCTION, FIELD VERIFY DIMENSIONS ON LOT WITH SETBACKS AND ELEVATIONS RETALIATIVE TO HEIGHT LIMITS PER CCR'S OR PER LOCAL JURISDICTIONS.

APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS, ADEQUATELY BRACING STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE THE PERMANENT LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED. PROVIDE BLOCKING BETWEEN STUDS (OR OTHER MEANS OF BRACING) AT WOOD BEARING WALLS TO PREVENT STUD BUCKLING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD

= 6×6 POST OR 3× STUDS SOLID MIN. LOADS FLOOR LIVE 40 PSF ■ = 4x6 POST OR 3x STUDS MEMBERS LIVE 40 PSF = 4×4 POST OR 2× STUDS IN PLEX'S ROOF

TYPICAL HDR *UNLESS SPECIFIED BY E.O.R.

4XI@ HDR MIN. 8'-@" CEILINGS W/ R-I@ INS

4XI@ HDR MIN. 9'-@" CEILINGS W/ R-I@ INS

4XI@ HDR MIN. 10'-@" CEILINGS W/ R-I@ INS

LIVE 60 PSF POSITIVE CONNECTION AT POST BASE AND CAP REQUIRED FOR 4X4 POST SIMPSON "EPB44" POST BASE OR EQU.
CONNECTIONS SIMPSON "ACH4Z" POST CAP OR EQU. FOR 6X6 POST SIMPSON "EPB66" POST BASE OR EQU.
CONNECTIONS SIMPSON "ACH6Z" POST CAP OR EQU. DESIGN LOADS GROUND SNOW LOAD TO BE DETERMINED BY 2021 IRC FIGURE R301.2(3). CS=SITE SPECIFIC CASE STUDY NEEDED BY LOCAL COUNTY CODES.

THE MINIMUM WIDTH OF A HALLWAY SHALL BE NOT LESS THAN 3 F1 EGRESS DOOR (R311.2) AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DUELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED AND SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32 INCHES WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP. THE MINIMUM CLEAR HEIGHT OF THE DOOR OPENING SHALL NOT BE LEGST THAT TO BE LEGST THE TOO.

BE LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. EGRESS DOORS SHALL BE READILY OPERABLE FROM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

HALLWAYS (R311.6)

FLOORS AND LANDINGS AT EXTERIOR DOORS (R311.3) TLOORS AND LANDINGS AT EXTERIOR DOORS (RS1.3)

THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH
EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE
LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A
MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION
OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE
A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS
HORIZONTAL (2%).

EMERGENCY ESCAPE AND RESCUE REQUIRED (R310.1)

BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM
SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND
RESCUE OPENING. WHERE EMERGENCY ESCAPE AND RESCUE
OPENINGS ARE PROVIDED THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR.

R3I0.2.1 MINIMUM OPENING AREA. ALL EMERGENCY ESCAPE AND

RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF

5.7 SQUARE FEET, I-STORY MAY BE REDUCED TO 5.0 SQUARE FEET

R3I0.2.1 MINIMUM OPENING HEIGHT. THE MINIMUM NET CLEAR OPENING

1.150.17 \$1.151.1 RE 24 INCHES HEIGHT SHALL BE 24 INCHES. R310.2.1 MINIMUM OPENING WIDTH, THE MINIMUM NET CLEAR OPENING

R3102 EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. SMOKE ALARMS 2021 IRC (R314 AND NFPA 72) 2021 IFC (R907) R314.3 LOCATION - SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: 1. IN EACH SLEEPING ROOM.
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE

2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, 3, ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS AND NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL. 4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FT (914 MM) HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION. REQUIRED BY THIS SECTION. REQUIRED BY THIS SECTION.

R314.4 INTERCONNECTION. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT IN ACCORDANCE WITH SECTION R314.3, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM.

R315.2.1 NEW CONSTRUCTION. FOR NEW CONSTRUCTION, CARBON MONOXIDE ALARMS SHALL BE PROVIDED IN DWELLING UNITS WHERE EITHER OR BOTH OF THE FOLLOWING CONDITIONS EXIST.

1. THE DWELLING UNIT CONTAINS A FUEL-FIRED APPLIANCE.

2. THE DWELLING UNIT HAS AN ATTACHED GARAGE WITH AN OPENING THAT THE DWELLING UNIT HAS AN ATTACHED GARAGE WITH AN OPENING. OPENING THAT COMMUNICATES WITH THE DWELLING UNIT. R315.2.2 ALTERATIONS, REPAIRS AND ADDITIONS. WHERE ALTERATIONS, REPAIRS OR ADDITIONS REQUIRING A PERMIT OCCUR, OR WHERE ONE OR MORE SLEEPING ROOMS ARE ADDED OR CREATED IN EXISTING DWELLINGS, THE INDIVIDUAL DWELLING UNIT SHALL BE EQUIPPED WITH CARBON MONOXIDE ALARMS LOCATED AS REQUIRED FOR NEW DWELLINGS.

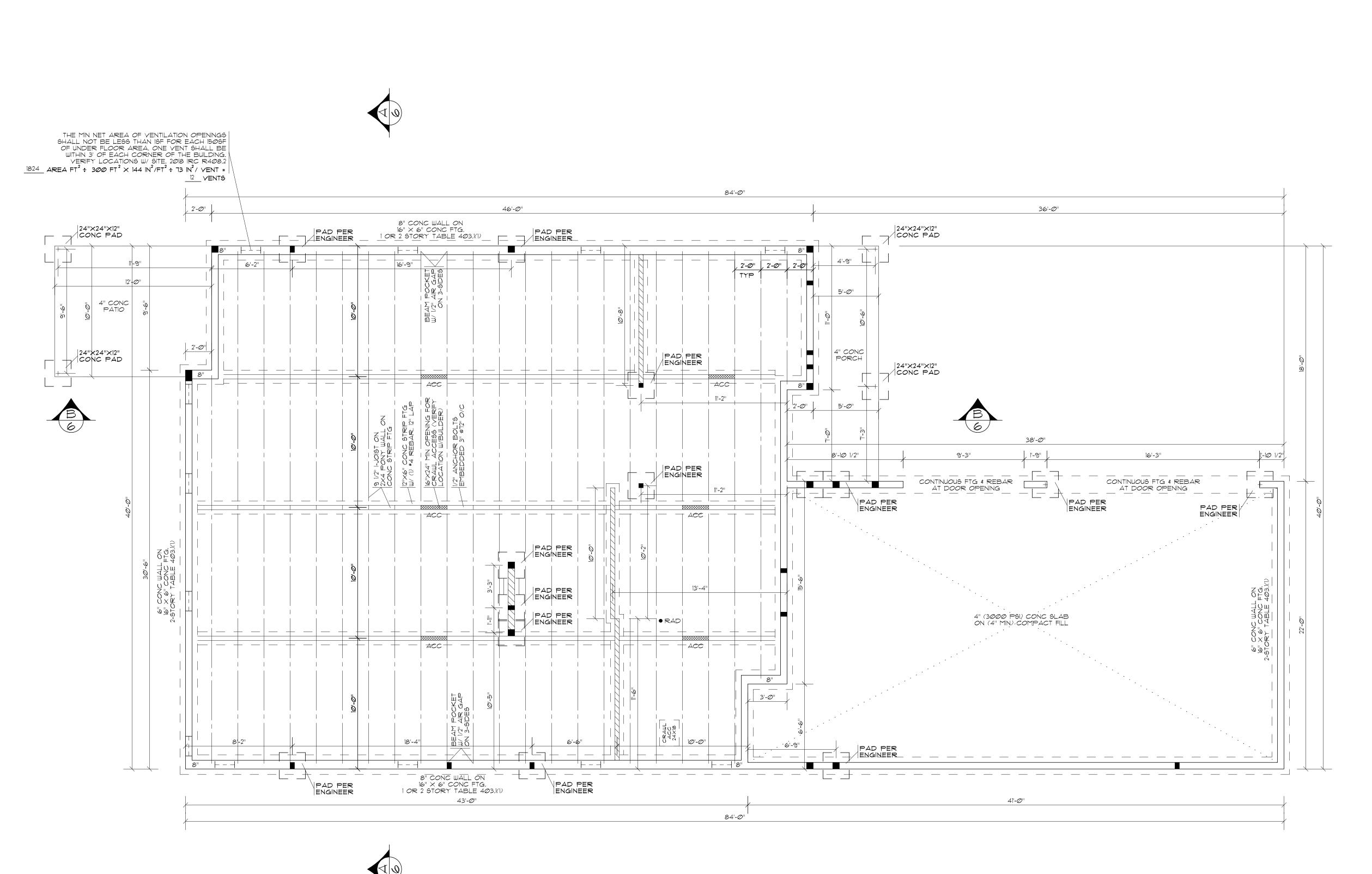
CARBON MONOXIDE ALARMS: 2021 IRC R315

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FOUNDATION PLAN

SCALE 1/4"=1'Ø"

STEM WALL NOTE ALL FOUNDATION WALLS THAT WILL HAVE BEAM POCKETS FOR FLOOR JOIST WILL NEED TO BE 8" CONC STEM WALLS WITH 16"X6" FTG FOR I-STORY AND 16"X8" FOR 2-STORY, UNLESS SPECIFIED BY ENGINEER.

FOUNDATION NOTES: GOVERNING DESIGN CODES: 2021 INTERNATIONAL RESIDENTIAL CODE (WITH WASHINGTON STATE AMENDMENTS)

VERIFY ALL CRAWL SPACE VENTS WITH SITE. SIZE AND LOCATIONS MAY VARY, TO BE DETERMINED DURING CONSTRUCTION. DO NOT PLACE VENTS UNDER BEARING POINT LOCATIONS. CRAWL ACCESS THROUGH PONY WALLS TO BE DETERMINED DURING CONSTRUCTION. LOCATIONS MAY VARY, VERIFY W/ SITE

FOOTINGS GENERAL (R403.1) ALL EXTERIOR WALLS SHALL BE SUPPORTED ON CONTINUOUS SOLID OR FULLY GROUTED MASONRY OR CONCRETE FOOTINGS, CRUSHED STONE FOOTINGS, WOOD FOUNDATIONS, OR OTHER APPROVED STRUCTURAL SYSTEMS WHICH SHALL BE OF SUFFICIENT DESIGN TO ACCOMMODATE ALL LOADS ACCORDING TO SECTION R3ØI AND TO TRANSMIT THE RESULTING LOADS TO THE SOIL WITHIN THE LIMITATIONS AS DETERMINED FROM THE CHARACTER OF THE SOIL. FOOTINGS SHALL BE SUPPORTED ON UNDISTRIBUTED IN ATTRACT OR SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL. CONCRETE FOOTING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R403 OR IN ACCORDANCE WITH ACI 332.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI, AS SHOWN IN TABLE R402.2. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING AS INDICATED IN TABLE R30,2(1) SHALL BE AR ENTRAINED AS SPECIFIED IN TABLE R402.2. THE MAXIMUM WEIGHT OF FLY ASH, OTHER POZZOLANS, SILICA FUME, SLAG OR BLENDED CEMENTS THAT IS INCLUDED IN CONCRETE MIXTURES FOR GARAGE FLOOR SLABS AND FOR EXTERIOR PORCHES, CARPORT SLABS AND STEPS THAT WILL BE EXPOSED TO DEICING CHEMICALS SHALL NOT EXCEED THE PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS SPECIFIED IN SECTION 19.3.3.4 OF ACI 318.

MINIMUM SIZES FOR CONCRETE AND MASONRY FOOTINGS SHALL BE AS SET FORTH IN TABLE R403.1(1) AND FIGURE R403.1(1). THE FOOTING WIDTH, W, SHALL BE BASED ON THE LOAD-BEARING VALUE OF THE SOIL IN ACCORDANCE WITH TABLE R401.4.1. SPREAD FOOTINGS SHALL BE AT LEAST 6 INCHES IN THICKNESS, T. FOOTING PROJECTIONS, P, SHALL BE AT LEAST 2 INCHES AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.

(1-STORY PER TABLE R403.1) MIN SIZE NOTED 6" CONC WALL (4" TALL MAX) ON 12"X6" CONC. FTG. SEE BASEMENT WALL DETAILS FOR HIGHER STEMWALLS OR VERIFY W/ ENGINEER. (2-STORY PER TABLE R403.1) MIN SIZE NOTED 6" CONC WALL (4" TALL MAX) ON 15"X6" CONC. FTG. SEE BASEMENT WALL DETAILS FOR HIGHER STEMWALLS OR VERIFY W/ ENGINEER. BEARING (R502.6) THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS

THAN I 1/2 INCHES (38 MM) OF BEARING ON WOOD OR METAL, HAVE NOT LESS THAN 3 INCHES OF BEARING (76 MM) ON MASONRY OR CONCRETE OR BE SUPPORTED BY JOIST HANGERS, ALTERNATIVELY THE ENDS OF JOISTS SHALL BE SUPPORTED ON A 1- INCH BY 4-INCH (25 MM BY 102 MM) RIBBON STRIP AND SHALL BE NAILED TO THE ADJACENT STUD. THE BEARING ON MASONRY OR CONCRETE SHALL BE DIRECT, OR A SILL PLATE OF 2-INCH-MINIMUM (51 MM) NOMINAL THICKNESS SHALL BE PROVIDED UNDER THE JOIST, BEAM OR GIRDER. THE SILL PLATE SHALL PROVIDE A MINIMUM NOMINAL BEARING AREA OF 48 SQUARE INCHES (30 865 MMZ).

SEISMIC REINFORCING (R403.1.3)

CONCRETE (R4Ø2.2)

MINIMUM SIZE (R4@3.1.1)

CONCRETE FOOTINGS (\$403.1.5)

CONCRETE FOOTINGS (\$403.1.5)

CONCRETE FOOTINGS (\$400.1.5)

BOTTOM REINFORCEMENT SHALL BE LOCATED A MIN. OF 3" CLEAR FROM THE BOTTOM OF THE FOOTING. WHERE A CONSTRUCTION JOINT IS CREATED BETWEEN A CONCRETE FOOTING AND A STEM WALL, A MIN. OF ONE NO. 4 BAR SHALL BE INSTALLED AT NOT MORE THAN 4 FEET O/C. THE VERTICAL BAR SHALL EXTEND TO 3" CLEAR OF THE BOTTOM OF THE FOOTING, HAVE A STANDARD HOOK AND EXTEND A MINIMUM OF 14 INCLES INTO THE STEM WALL A MINIMUM OF 14 INCHES INTO THE STEM WALL. FOUNDATIONS WITH STEMWALLS (R403.1.3.1)

FOUNDATIONS WITH STEM WALLS SHALL HAVE INSTALLED A MINIMUM OF ONE NO. 4 BAR WITHIN 12 INCHES OF THE TOP OF THE WALL AND ONE NO. 4 BAR LOCATED 3 TO 4 INCHES FROM THE BOTTOM OF SLABS-ON-GROUND WITH TURNED-DOWN FOOTINGS (R403.1.3.3) SLABS ON GROUND WITH TURNED DOWN FOOTINGS SHALL HAVE A MINIMUM OF ONE NO. 4 BAR AT THE TOP AND THE BOTTOM OF THE FOOTING. (SLABS MAY REQUIRE 6X6XIØGA. IN SOME JURISDICTIONS) EXCEPTION: FOR SLABS-ON-GROUND CAST MONOLITHICALLY WITH THE FOOTING, LOCATING ONE NO. 5 BAR OR TWO NO. 4 BARS IN THE MIDDLE THIRD OF THE FOOTING DEPTH SHALL BE PERMITTED AS AN ALTERNATIVE TO PLACEMENT AT THE FOOTING TOP AND BOTTOM.

WHERE THE SLAB IS NOT CAST MONOLITHICALLY WITH THE FOOTING, NO. 3 OR LARGER VERTICAL DOWELS WITH STANDARD HOOKS ON EACH END SHALL BE PROVIDED IN ACCORDANCE WITH FIGURE STANDARD HOOKS SHALL COMPLY WITH SECTION R608.5.4.5 MINIMUM DEPTH (R403.1.4)

ALL EXTERIOR FOOTINGS SHALL BE PLACED AT LEAST 12 INCHES BELOW THE UNDISTURBED GROUND SURFACE. WHERE APPLICABLE THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTIONS R403.1.4.1 THROUGH R403.1.4.2 OR EXTENDED BELOW THE FROST LINE SPECIFIED IN TABLE R301.2.(1)+ PER LOCAL JURISDICTION. STRUCTURAL ENGINEER MAY CHANGE DEPTH REQUIREMENT (VERIFY) FOUNDATION ANCHORAGE (R403.1.6) ANCHOR BOLTS FOUNDATION ANCHORAGE (R403.1.6) ANCHOR BOLTS
SILL PLATES AND WALLS SUPPORTED DIRECTLY ON CONTINUOUS
FOUNDATIONS SHALL BE ANCHORED TO THE FOUNDATION IN
ACCORDANCE WITH THIS SECTION. ALL WOOD SILL PLATES SHALL BE
ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS SPACED A
MAXIMUM OF 6 FEET O/C. BOLTS SHALL BE AT LEAST 1/2 INCH IN
DIAMETER AND SHALL EXTEND A MINIMUM OF T INCHES INTO
CONCRETE OR GROUTED CELLS OF CONCRETE MASONRY UNITS.
A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT.
THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION WITH
ONE BOLT LOCATED NOT MORE THAN 12 INCHES OR LESS THAN
SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION.

WILL ANCHORAGE FOR ALL BUILDINGS (R602.11) WASHERS

WALL ANCHORAGE FOR ALL BUILDINGS (R602.11.1) WASHERS PLATE WASHERS, A MINMUM OF 0,229 INCH BY 3 INCHES BY 3 INCHES IN SIZE, SHALL BE PROVIDED BETWEEN THE FOUNDATION SILL PLATE AND THE NUT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE

DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16 INCH LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4 INCHES, PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. DRAINAGE (R401.3)

SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET. (3"DIA. PERF PIPE W/ 3/4" MIN. CRUSHED ROCK OR GRAVEL AND APPROVED FILTER MEMBRANE) OPENINGS FOR UNDER-FLOOR VENTILATION (R408.2) THE MINMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1/SF FOR EACH 150/SF OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EMBED EXPANSION ANCHORS 4" MINIMUM INTO CONCRETE. POST CONNECTIONS: TYPICAL (UNLESS NOTED BY E.O.R.) SIMPSON "EPB44" POST BASE OR EQU. SIMPSON "ACH4Z" POST CAP OR EQU. SIMPSON "EPB66" POST BASE OR EQU. SIMPSON "ACH6Z" POST CAP OR EQU. POSITIVE CONNECTION AT POST BASE AND CAP MINIMUM 16"X24" ACCESS THROUGH CRAWL SPACE PONY WALLS

MANUF TRUSSI OR RAFTERS SIMPSON H-CLIP 2.5A OR EQU. (PLACE INSIDE OR OUTSIDE PER BUILDER) SIMPSON "ACH4Z" POST CAP OR EQU. FOR 4X4 POST CONNECTIONS PT POSTL PER PLAN SIMPSON "ACH6Z" POST CAP OR EQU. FOR 6X6 POST CONNECTIONS SIMPSON "EPB44" BASE OR EQU. FOR 4X4 POST CONNECTIONS CONC. PAD PER PLAN "PB44A" OR "ABU44Z" SUBSTITUTE SIMPSON "EPB66" BASE OR EQU. FOR 6X6 POST CONNECTIONS "PB66A" OR "ABU66Z" SUBSTITUTE

TYPICAL POST CONNECTION DETAILS NOT TO SCALE

ADDITIONAL CONSTRUCTION NOTES

LUMBER SPECIES: DOUGLAS FIR-LARCH GRADE LUMBER

OLID BLOCKING USE SAME DEPTH AS MEMBERS

BATHTUB AND SHOWER SPACES (R307.2)

GLAZING ADJACENT TO DOORS (R308.4.2)

EXTERIOR WALL STUDS NO.2 OR BETTER
INTERIOR NON-BEARING WALL STUDSSTANDARD OR BETTER
INTERIOR BEARING WALL STUDSNO.2 OR BETTER
JOISTSNO.2 OR BETTER
BEAMSNO.2 OR BETTER UNLESS NOTED ON PLAN

.....NO.2 OR BETTER UNLESS NOTED ON PLANSTANDARD OR BETTER

GROUND CONTACT (R317.1.2) PROTECTION OF WOOD AGAINST DECAY

FRAMING LUMBER

LUMBER GRADES:

MINIMUM HEIGHT (R305.1)

FLOOR SURFACE (R309.1)

SECTION R405 FOUNDATION DRAINAGE R405.1 Concrete or masonry foundations. Drains shall be provided around all concrete or masonry foundations that retain earth and enclose habitable or usable spaces located below grade. Drainage tiles, gravel or crushed stone drains, perforated pipe or other approved systems or materials shall be installed at or below the area to be protected and shall discharge by gravity or mechanical means into an approved drainage system. Gravel or crushed stone drains shall extend at least 1 foot (305 mm) beyond the outside edge of the footing and 6 inches (152 mm) above the top of the footing and be covered with an approved filter membrane material. The top of open joints of drain tiles shall be protected with strips of building paper, and the drainage tiles or perforated pipe shall be placed on a minimum of 2 inches (51 mm) of washed gravel or crushed rock at least one sieve size larger than the tile joint opening or perforation and covered with not less than 6 inches (152 mm) of the same material. Exception: A drainage system is not required when the foundation is installed on well-drained ground or sand-gravel mixture soils according to the Unified Soil Classification System, Group I Soils, as detailed in Table R405.1. Fig. 8 Foundation 8 Tightline drain adapter Downspout ⁻ 6-mil plastic on house side pipe, sloped downhill & seperate from HOLES GO DOWN

Rigid perforated drain pipe

Southwest Washington Chapter of ICC This construction detail is illustrative of the minimum standard of construction based upon the 2012 UPC / WAC 51-56 Exhaust to outside- B Vent clearance to combustibles per manufacture's Listi per WSEC R403.4.2 - R-3 insulation \$ 6" for single wall pipe. IFGC 503.7.8. 6" clearance required for gas water heaters from draft hood \$ 9" to Where vent passes through insulated single wall pipe to combust IFGC Table 503.10.5. assemblies, insulation shield required. Min. 26 gauge sheet to provide require clearance all around, Mm, 2" above Temperature and pressure _ insulation and secured to prevent relief valve-drain to outside displacement. IFGC Section 502.4 or other approved location-check with Expansion tank required w/ jursdiction. See UPC closed plumbing system per 608.4. Relief valve drain UPC Section 608.3 shall discharge downward - Install 2x blocking if tank does not between 6" min. to max. 24" from floor. UPC have stud behind in as required-608.5 See Plan View below and note 1 Cold water supply line w/ Listed straps or use min. shut off UPC 606.2 22 guage x 3/4" wide - 2 seismic straps required -locate @ metal straps Drill pilot hole upper and lower 1/3 of tank per UPC Section 507.2. on centerline of Control unit stud, use 1/4"x4" lag w/ washer — Garage Only UPC 507.2 18" minimum required between bottom edge of source of ignition and finish floor level per UPC 507.13, unless listed as flammable vapor ignition resistant (NFPA 54: 9.1.9). See UPC 507.12, and 2x framing Provide protective 3" Diam, steel bollard or equal so that water heater is not subject to physical damage by vehicle. Provide NOTE: adequate anchorage to floor or embedment. See UPC 507.13.1 1. If wall studs are not properly located to allow adequate anchorage, attach min. 2x4 cross brace to studs with 1/4" x 4" lags to studs with Plate anchor or embedmen 1/4" x 4" lag screw and washers. Attach anchor strap to cross brace anchorage to floor. with lag screw and washers. See UPC Section 507.2.1. Perforated iron strap ("plumber's tape") is not an approved method of strapping. 2. See IFGC Figure 503.6.4 for gas vent terminations. 3. No stand required where listed as vapor ignition resistant. 4. R-10 riaid insulation pad required where water heaters are in unheated spaces or on concrete floors. See R403.4.3 WSEC. 5. Water heater stand to be screwed or strapped to wall or floor or provide engineering calculations per UPC 313.5. PLAN VIEW

DWG BY mlm Date 12-8-15

UPC 507

WATER HEATERS

		DESCRIPTION OF BULL	DING ELEMENTS	NUMBER AND TYP		SPACING OF	FASTENERS	
			ROOF	TASTENER	d,b,c			
	Block	king between ceiling joists, rafters or trusses		4-8d (2 1/2" x C	\ \ \ \	+00	nail	
				2-8d com (2 1/2" x			toe nail	
1	Block	king between rafters or truss not at the wall	top plates, to rafter or truss	2-16d com (3 1/2" x			nail	
İ	flat l	blocking to truss and web filler		16d com (3 1/2" x			face nail	
2		g joists to plate		4-8d (2 1/2" x C			, toe nail	
3		g joists not attached to parallel rafter. laps		.2) 4-10d box (3" x ().l28")	face	e nail	
4		g joists attached to parallel rafter (heel jo	int) (R802.5.2 and table R802.5.2)	Table R802.5.		face	e nail	
5		r Tie to rafter. face nail		4-10d (3" x 0.12			each rafter	
6	Rafte	er or roof truss to plate					toe nail opposite sid	
7	Roof	rafters to ridge, valley or hip rafters or r	oof rafter to min 2" ridge beam	4-16d box (3 1/2" x			nail	
			MALL	3-16d box (3 1/2" x	0.135")	end	nail	
			WALL					
8	stud	to stud (not braced wall panels)		16d com (3 1/2" x			face nail	
	Crud	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		10d box (3" x 0.		16" o.c.	tace nail face nail	
9	Stud (at b	to stud and abutting studs at intersecting wall raced wall panels)	corners	16d box (3 1/2" x			face nail	
		<u> </u>		16d com (3 1/2" x				
10	Built-up header (2"to 2" header with 1/2" spacer)			16d com (3 1/2" x		16" o.c. each edge face nail 12" o.c. each edge face nail		
	Con+:	inuous header to stud		16d box (3 1/2" x				
12		cent full-height stud to end of header		5-8d box (2 1/2" x 4-10d box (3" x (nail nail	
				16d com (3 1/2" x			face nail	
13	top p	plate to top plate		10d com (3 1/2 x			face nail	
14	اا ۔لہ	e top plate splice		8-16d com (3 1/2" x	F	ace nail on each side	of end joint (min 24"	
14	doubi	e top plate splice				lap splice length eac		
15	Botto	om plate to joist. rim joist. band joist or blo	cking (not at braced wall panels)	16d com (3 1/2" x			face nail	
			POOF	16d box (3 1/2" x	0.135 1	IZ O.C	face nail	
			ROOF					
16	botto	om plate to joist, rim joist, band joist or blo	cking (at braced wall panel)	4-3" x 0.131" no	I .	16" o.c	face nail	
				3-16d box (3 1/2" x				
17	top o	or bottom plate to stud		4-8d box (2 1/2" x			nail	
				2-16d com (3 1/2" x 3-10d box (3" x (end	nail	
18	top p	plates. laps at corners and intersections		2-16d com (3 1/2" x		face	e nail	
19	l" bro	ace to each stud and plate		3-8d box (2 1/2" x		face	e nail	
20		and wider sheathing to each bearing		3-8d box (2 1/2" x			e nail	
01		<u> </u>		3-8d box (2 1/2" x			e nail	
21	1 x8	and wider sheathing to each bearing		4-8d box (2 1/2" x	0.113")	(wider than 1°	x8") face nail	
			FLOOR					
22	Joist	to sill, top plate or girder		4-8d box (2 1/2" x		toe	nail	
23	Rim i	ioist hand joist or blocking to sill or top pla	ite (roof applications also)	8d box (2 1/2" x		4" o.c	toe nail	
	Rim joist, band joist or blocking to sill or top plate (roof applications also)				8d com (2 1/2" x 0.131")		6" o.c toe nail	
24		subfloor or less to each joist		3-8d box (2 1/2" x			e nail	
25		bfloor to joist or girder		3-16d box (3 1/2" x			face nail	
26		anks (plank & beam - floor and roof)		3-16d box (3 1/2" x			ring, face nail	
27	Band	or rim joist to joist		3-16d com(3 1/2" x	0.162")		nail	
				20d com (4" x 0.192")	32"	nail each layer as o.c at top and botto		
28	Built-	up girders and beams. 2" lumber layers		10d box (3" x 0.128")		<u> </u>	taggered on opp sides	
-		1 5	2	-20d com (4" x 0.192")		ace nail at ends and		
29	Leda	er strip supporting joists or rafters		4-16d box (3 1/2" x			rafter, face nail	
30		ing or Blocking to joist, rafter or truss	2-10d box (3" v 01"	28") or 2-8d com (2 1/2"			d, toe nail	
_	49	· <u> </u>	ROOF AND INTERIOR WALL SHEATHING TO					
.ÿ			od structural panel <i>exterior</i> wall sheathing to					
<u> </u>						· · · · · · · · · · · · · · · · · · ·	OF FASTENERS	
5Ž		DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FA	STENER A R C		Edges (Inches) h	Intermediate Support	
_ ⊼ ⊼		DESCRIPTION OF BOILDING ELEMENTS				Luges (iliches) N	C, E (Inches)	
말	31	3/8" - 1/2"	6d common (2" x 0.113") n			6	6 f	
<u></u>	JI	8d common (2 1/2 × 0.131)				6	l2 f	
ا پِونَا	32 19/32" - 3/4" 8d common (2 1/2" x 0.131") nail 8d common (2 1/2" x 0.131") nail				6	6 f		
₽Ę	33	7/8" - 1 1/4"	8d common (2 1/2 x 0 10d common (3" x 0			6	12	
ŽĞ∣	55	770 -174	OTHER WALL SH				l l	
IO PRESCRIPTIVE ENGINEERING ONLY. WHEN PRESCRIPTIVE METHOD IS NOT USED	٦.	1/2" structural cellulosic	I 1/2"x0.120" galvanized roofing na			3	6	
FZ	34	fiberboard sheathing	or 1 1/4" long 16ga. staple with	n 7/16" or 1" crown		3		
2물	35	25/32" structural cellulosic	9 9 1			3	6	
SE S	SO	fiberboard sheathing	I 3/4"x0.120" galvanized roofing no or I I/4" long 16ga. staple with	7/16" or 1" crown				
						1		

ı	For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s: 1ksi = 6.895 MPa.
ı	a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections are carbon steel and shall have minimum
	average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail). 90 ksi for shank diameters larger than 0.142 inch but not larger than
ı	0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less. connections using nails and staples of other materials, such as stainless steel, shall be designed by accepted
ı	engineering practice or approved under section el04.ll

l 1/2"x0.120" galvanized roofing nail. 7/16" head diameter. or l 1/4" long 16ga. staple with 7/16" or l" crown

l 3/4"x0.120" galvanized roofing nail, 7/16" head diameter, or l 1/4" long 16ga. staple with 7/16" or 1" crown

WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING

deformed (2" x 0.120") nail or 8d common (2 1/2" x 0.131") nail 8d common (2 1/2" x 0.131") nail or 8d deformed (2 1/2" x 0.120") nail

10d common (3" x 0.148") nail or deformed (2 1/2" x 0.120") nail

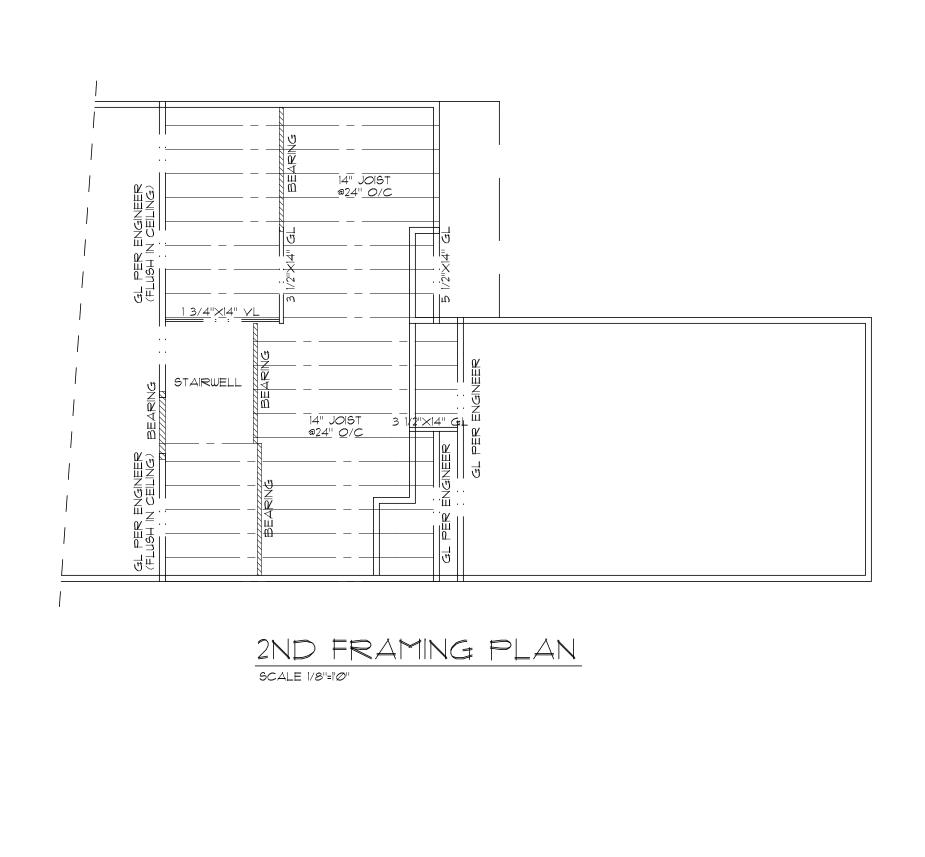
7

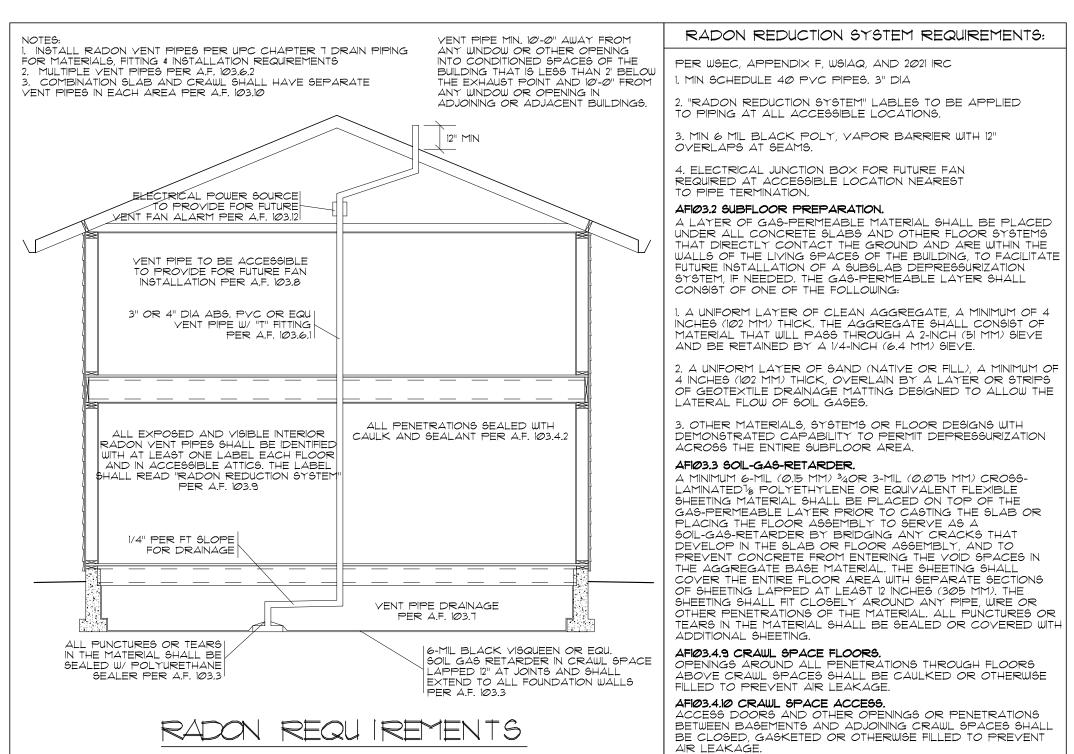
- o. RSRS-01 is a roof sheathing ring shank nail meeting the specifications in ASTM F1667.
- . Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- . Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically. e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).

1/2" gypsum sheathing ^d

5/8" gypsum sheathing ^d

- . For wood structural panel roof sheathing attached to gable end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is greater than 130 mph in exposure B or greater than 110 mph in exposure C.
- . Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with ASTM C1280 or GA 253. Fiberboard sheathing shall conform to ASTM C208 n. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing mambers
- Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be requires.





HABITABLE SPACE, HALLWAYS, BATHROOMS, TOILET ROOMS, LAUNDRY ROOMS AND PORTIONS OF BASEMENTS CONTAINING THESE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 1 FEET. EXCEPTIONS: EXCEPTIONS:

I. FOR ROOMS WITH SLOPED CEILINGS, AT LEAST 50 PERCENT OF THE REQUIRED FLOOR AREA OF THE ROOM MUST HAVE A CEILING HEIGHT OF AT LEAST 1 FEET AND NO PORTION OF THE REQUIRED FLOOR AREA MAY HAVE A CEILING HEIGHT OF LESS THAN 5 FEET.

2. BATHROOMS SHALL HAVE A MINIMUM CEILING HEIGHT OF 6 FEET 8 INCHES AT THE CENTER OF THE FRONT CLEARANCE AREA FOR FIXTURES. BEAMS, GIRDERS, DUCTS OR OTHER OBSTRUCTIONS MAY PROJECT TO WITHIN 6 FEET 4 INCHES OF BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING 3 LESS THAN 60 INCHES (1524 MM) ABOVE THE FLOOR OR WALKING SURFACE AND IT MEETS EITHER DF THE FOLLOWING CONDITIONS: I. WHERE THE GLAZING IS WITHIN 24 INCHES (610 MM) OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION. 2. WHERE THE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES (610 MM) OF THE HINGE SIDE OF AN IN-SWINGING DOOR. GARAGE FLOOR SURFACES SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL. THE AREA OF FLOOR USED FOR PARKING OF AUTOMOBILES OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY.

ALL WOOD IN CONTACT WITH THE GROUND, EMBEDDED IN CONCRETE IN DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED TO THE WEATHER THAT SUPPORTS PERMANENT STRUCTURES INTENDED FOR HUMAN OCCUPANCY SHALL BE APPROVED PRESSURE-PRESERVATIVE TREATED WOOD SUITABLE FOR GROUND CONTACT USE, EXCEPT UNTREATED WOOD MAY BE USED WHERE ENTIRELY BELOW GROUNDWATER LEVEL OR CONTINUOUSLY SUBMERGED IN FRESH WATER. FIELD TREATMENT (R317.1.1) _D-CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4. GLULAM COLUMNS: USE COMBINATION #3 DF LUE LAMINATED MEMBERS: MEMBER SPECIES: USE WESTERN GRADE SPECIES
MEMBER GRADE: (SIMPLE, MULTIPLE OR CANTILEVER SPANS) USE 24F-V4 MATERIAL STANDARDS: ARCHITECTURAL GRADE APPEARANCE DO NOT USE 24F-1.8E UNLESS PTED 4 APPROVED BY A QUALIFIED SUPPLIER OR STRUCTURAL ENGINEER. ALL EXTERIOR DECKS EXPOSED TO WEATHER MUST UTILIZE WEATHER-RESISTANT WOOD SUCH AS CEDAR, REDWOOD, MOHOGANY OR PRESSURE-TREATED WOOD IN ACCORDANCE WITH 2021 IRC R317 FASTENERS FOR PRESERVATIVE-TREATED WOOD (R317.3.1)
FASTENERS FOR PRESERVATIVE-TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED
GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. COATING TYPES AND WEIGHTS
FOR CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE IN ACCORDANCE WITH
THE CONNECTOR MANUFACTURERS RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURERS RECOMMENDATIONS, A MINIMUM OF ASTM A 653 TYPE GIB5 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED. PLYWOOD SHEATING ROOF SHEATHING: 1/2" MIN. INDEX 32/16.

FLOOR SHEATHING: 3/4" MIN. INDEX 48/24 T&G WALLS SHEATHING: 7/16" MIN. INDEX 32/0 ENGINEERED WOOD PRODUCTS MUST CONFORM WITH ALL APPLICABLE PROVISIONS OF THE WOOD PRODUCT MANUFACTURERS: TRUS JOIST =TJI SERIES JOIST OR BOISE ENGINEERING =BCI SERIES JOISTS

ASSEMBLIES AND HANGERS, AS REQUIRED TO PROVIDE A COMPLETE FLOOR OR ROOF STRUCTURAL SYSTEM PER I-JOIST MANUF.

1/4" WIDE, 1.3E GRADE UNLESS OTHERWISE NOTED ON PLANS OR APPROVED BY JOIST SUPPLIER OR STRUCTURAL ENGINEER. BEARING REQUIREMENTS FOR MECHANICAL UNITS:

JOIST SUPPLIER AND CONTRACTOR TO DOUBLE ALL JOISTS MEMBERS UNDER MECHANICAL UNITS, UNLESS NOTED OTHERWISE. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

GENERAL (R103.1) EXTERIOR COVERING EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING PER SECTION R103.4.

WATER RESISTANCE (R103.1.1) EXTERIOR COVERING
THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT
PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER
RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R103.2 AND A
MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING. PANEL SIDING (RTØ3.5.2)

JOINTS IN WOOD, HARDBOARD OR WOOD STRUCTURAL PANEL SIDING SHALL BE MADE AS FOLLOWS UNLESS OTHERWISE APPROVED. VERTICAL JOINTS IN PANEL SIDING SHALL OCCUR OVER FRAMING MEMBERS, UNLESS WOOD OR WOOD STRUCTURAL PANEL SHEATHING IS USED, AND SHALL BE SHIPLAPPED OR COVERED WITH A BATTEN, HORIZONTAL JOINTS IN PANEL SIDING SHALL BE LAPPED A MINMUM OF I INCH OR SHALL BE SHIPLAPPED OR SHALL BE FLASHED WITH Z-FLASHING AND OCCUR OVER SOLID BLOCKING, WOOD OR WOOD STRUCTURAL PANEL SHEATHING. HORIZONTAL SIDING (R703.5.3)

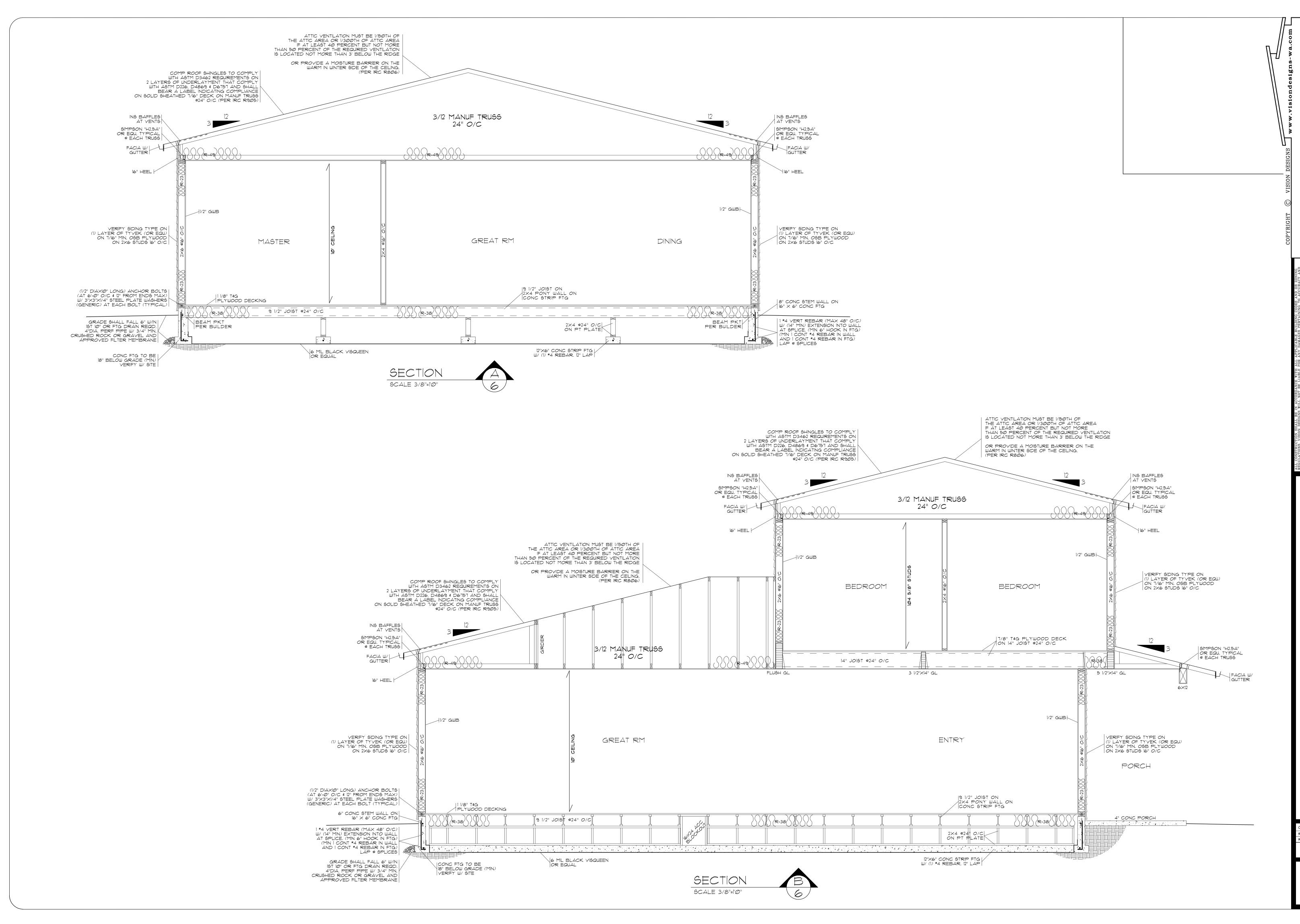
HORIZONTAL LAP SIDING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUF, RECOMMENDATIONS, WHERE THERE ARE NO RECOMMENDATIONS THE SIDING SHALL BE LAPPED A MINIMUM OF I INCH, OR 1/2 INCH IF RABBETED, AND SHALL HAVE THE ENDS CAULKED, COVERED WITH A BATTEN OR SEALED AND INSTALLED OVER A STRIP OF FLASHING. GARAGE / DWELLING SEPARATION (TABLE R302.6) GWB BOARD SHALL BE PLACED ON THE GARAGE SIDE OF WALLS AND CEILINGS WHERE HABITABLE AREAS ARE ON THE OPPOSITE SIDE. A MIN. OF 1/2" GWB FOR WALL SEPERATIONS

MINIMUM AREA (R806.2) ATTIC VENTILATION ATTIC VENTILATION MUST BE 1/15/0TH OF THE ATTIC AREA OR 1/3/0/0TH OF ATTIC AREA IF AT LEAST 4/0 PERCENT BUT NOT MORE THAN 5/0 PERCENT OF THE REQUIRED VENTILATION IS LOCATED NOT MORE THAN 3' BELOW THE RIDGE. OR PROVIDE A MOISTURE BARRIER ON THE WARM IN WINTER SIDE OF THE CEILING.

AND 5/8" TYPE "X" GWB AT CEILING SEPERATIONS WITH HABITABLE ROOMS ABOVE.

ROOF COVERINGS (R905) COMP ROOF SHINGLES TO COMPLY WITH ASTM D3462 REQUIREMENTS ON 1 OR 2 LAYERS OF UNDERLAYMENT THAT COMPLY WITH ASTM D226, D48694D6757 AND SHALL BEAR A LABEL INDICATING COMPLIANCE. ON SOLID SHEATHED DECK ON MANUF TRUSS @24" O/C (PER IRC R305)

18" MIN. CLEARANCE FROM GRADE TO BOTTOM OF FLOOR JOIST AND MIN. 12" CLEARANCE TO BOTTOM OF GIRDERS OR BEAMS IN THE CRAWLSPACE. VERIFY W/ LOCAL JURISDICTION. OVERHANGS: OVERHANGS ARE TO BE DETERMINED BY OWNER/BUILDER GUTTERS: GUTTERS ARE TO BE DETERMINED BY OWNER/BUILDER. GUTTER AND DOWNSPOUTS TO APPROVED DRAINAGE RAIN AND LOW POINT DRAINS TO BE SCHEDULE 40 PVC OR ABS WITH DWV FITTINGS. VERIFY W/ LOCAL JURISDICTION.



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