BUILDING CODE REFERENCES

CEILING HEIGHT R305

BATH AND SHOWER SPACES

WINDOWS IN HAZARDOUS LOCATIONS R308.4 \$ RELATED SECTIONS

R307

BATH ROOM WINDOW R303.3 \$ EXCEPTIONS

PROTECTION AGAINST DECAY R317 \$ R318

FOOTINGS R403 WOOD TRUSS DESIGNS R502.11

R602 WOOD WALL FRAMING

R612 EXTERIOR WINDOWS

WOOD DECKS R507 AND 2018 AMERICAN WOOD COUNCIL PRESCRIPTIVE RESIDENTIAL

R312

R404, R606

R602.10, SEE PLAN

WOOD DECK CONSTRUCTION GUIDE

NATURAL LIGHT & VENTILATION R303.1

MASONRY WALL REINF. RAILINGS

HANDRAILS AND GUARDS R311.7.8 AND R312

WIND LOAD SCHEDULE

BRACE WALL PANELS

ELEVATION WIND SPEED BELOW 4000 FT I I O MPH ABOVE 4000 FT. 140 MPH

MIN. CFM FOR EXHAUST SYSTEMSTABLE 1505.4.4 KITCHEN 100 CFM or 25 CFM CONT. BATHROOMS 50 CFM or 20 CFM CONT.

INSULATION SCHEDULE (ALL INSULATION IS TO BE FIBERGLASS ROLL) CEILING

R-49 or R38 IF UNCOMPRESSED. IF COMPRESSED - MAX. 500 S.F. or

PER OWNER, INSTALL 75 CFM FANS.

LESS) OF R-30 @ EAVE 2x6 WALLS R-19 2x4 WALLS R-15 **FLOOR** R-19

LIVE LOAD SCHEDULE

BEDROOMS 30 LBS PER S.F. ALL OTHER ROOMS 40 LBS PER S.F. ROOF LIVE LOAD 20 LBS PER S.F. GROUND SNOW LOAD 30 LBS PER S.F.

PORCH & STAIR NOTES

MAX RISER - 8.25", MIN TREAD 9"

IF DECK/PORCH IS ABOVE 30" TO FINISH GRADE PROVIDE PICKETS @ 5" O.C. MAX AND NO OPENINGS LARGER THAN 4" IN GUARDRAIL IF SMALLER PICKETS OR OTHER SYSTEM USED.

PROVIDE HANDRAIL AT 34" to 36" ABOVE THE TREADS ON BOTH SIDES OF STAIRS

STAIR TREADS SHALL BE 2x | 2 OR 2~ 2x6 or 2~ 5/4 BOARDS ALL STAIRWAY FRAMING SHALL BE TREATED WOOD

ENCLOSE ALL RISERS

PROVIDE I" NOSING ON ALL STAIRS

PROVIDE 2x12 STRINGERS @ 16" O.C. MAX.

PROVIDE 16" x 4" THICK CONCRETE BASE FOR STRINGERS AT

LEGEND

CARBON MONOXIDE DETECTOR, ALL INTERCONNECTED

SMOKE DETECTOR, ALL INTERCONNECTED

NUMBER or MARK

BUILDING SECTION OF DETAIL MARK
PAGE NUMBERS

GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- THE REFERENCE BUILDING CODE IS THE 2024 EDITION OF THE VIRGINIA USBC AND REFERENCED 2021 VIRGINIA RESIDENTIAL CODE. DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL
- DIMENSIONS PRIOR TO WORK. DIMENSIONS ARE TO FACE OF FRAMING OR MASONRY.
- 4. ALL DESIGN AND CONSTRUCTION RESPONSIBILITY RELATED TO THE ELECTRICAL POWER. LIGHTING. PLUMBING. AND HVAC REST SOLELY WITH THE CONTRACTOR AND OWNER UNLESS OTHERWISE NOTED. ALL MATERIALS ARE TO BE NEW UNLESS APPROVED BY THE BUILDING
- FOOTINGS ARE TO BE ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 2500 PSF. BOTTOM OF FOOTING IS TO BE A MIN. OF 24" BELOW FINISH GRADE. EXCAVATE ANY FILL AS REQUIRED. CONCRETE IN PERIMETER AND PIER FOOTING SHALL HAVE A COMPRESSIVE STRENGTH OF 3500 PSI WITHIN 28 DAYS OF PLACEMENT. CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. PORTLAND CEMENT ASTM C 150, TYPE AS REQUIRED.
- b. AGGREGATE ASTM C33 c. WATER - CLEAN
- AIR ENTRAINING ADMIXTURE ASTM C260
- WELDED WIRE FABRIC ASTM A 185 REINFORCING - ASTM A 165, GRADE 60, PROVIDE METAL CHAIRS AS REQUIRED TO PLACE REINFORCING
- LAP REBAR A MIN OF 20" FOR #4, 25" FOR #5
- TRUSSES SHALL BE PRE-ENGINEERED, ZINC COATED METAL PLATE CONNECTED TO WOOD TRUSSES DESIGNED BY THE SUPPLIER WITH A QUALIFIED PROFESSIONAL ENGINEER. LOADING REQUIREMENTS ARE: a) ROOF TRUSSES - BELOW 4000 FT. ELEVATION - 110 MPH WIND LOADING, 30 PSF SNOW LOADING W/ NO REDUCTIONS, LATERAL
- BRACING AS REQUIRED BY THE SUPPLIER AND DESIGNING ENGINEER b) ROOF TRUSSES - ABOVE 4000 FT. ELEVATION - 140 MPH WIND LOADING, 30 PSF SNOW LOADING W/ NO REDUCTIONS, LATERAL BRACING AS REQUIRED BY THE SUPPLIER AND DESIGNING ENGINEER
- c) FLOOR TRUSSES SHALL BE DESIGNED FOR 40 PSF LOADING, LATERAL BRACING AS REQUIRED BY THE SUPPLIER AND DESIGN ENGINEER. d) LVL BEAMS - FOR IMPOSED LOADS.
- . HANGERS AND CLIPS HURRICANE CLIPS SHALL BE INSTALLED ON EACH ROOF TRUSS & RAFTER TYING THEM TO THEIR RESPECTIVE SUPPORT WALL. JOISTS SHALL BE ATTACHED TO SUPPORT MEMBERS OR WALLS WITH GALVANIZED JOIST HANGERS. WHERE ATTACHMENT IS MADE TO A JOIST OR TRUSS, THE METHOD OF ATTACHMENT SHALL BE DESIGNED BY THE
- ANY CUT ENDS OF LUMBER IN CONTACT WITH THE SOIL MUST BE FIELD TREATED WITH AN APPROVED PRESERVATIVE.
- 20% OF TOTAL AREA (WHICHEVER IS III 10. FOR ADDITIONAL DECK DETAILS, SEE R507 OF THE REFERENCE CODE AND THE 20 | 8 AMERICAN WOOD COUNCIL PRESCRIPTIVE RESIDENTIAL WOOD DECK CONSTRUCTION GUIDE.
 - . WOOD FRAMING IS TO BE MINIMUM SP NO.2 FRAMING WITH A MODULES OF ELASTICITY OF NO LESS THAT 1,500,000.
 - 12. STAIRS TREADS SHALL BE A MIN. OF 9", RISERS A MAXIMUM OF 8.25", CLOSE ALL RISERS, GUARDRAILS 36" HIGH WITH NO OPENINGS LARGER THAN 4", HANDRAILS AT 34" - 36" HIGH.
 - 3. ICE AND WATER BARRIERS SHALL BE INSTALLED UNDER ROOF VALLEYS. 4. ALL WINDOWS SHALL BE A .30 "U" FACTOR. VERIFY A MIN. OF ONE WINDOW IN BEDROOMS MEETS THE MIN. REQUIREMENT OF 5.7 S.F. OPEN AREA PER SECTION 3 | O. | | . WINDOWS SHALL BE SINGLE HUNG WITH FULL
 - 5. EXTERIOR DOORS SHALL BE FULLY INSULATED AND ANY GLAZING IN THE DOOR UNIT SHALL BE RATED AS SAFETY GLAZING.
 - 6. INSTALL A SMOKE DETECTOR IN EACH BEDROOM AND ADJACENT TO EACH BEDROOM AREA. DETECTORS SHALL BE INTERCONNECTED, INCLUDING EXIST. HOUSE.
 - . INSTALL CARBON MONOXIDE DETECTORS OUTSIDE OF EACH SLEEPING AREA. DETECTORS SHALL BE INTERCONNECTED, INCLUDING EXIST. HOUSE.
 - I 8. INSTALL A-B-C FIRE EXTINGUISHER IN THE KITCHEN AREA, LOCATION AS APPROVED BY THE BUILDING OFFICIAL. 19. ELECTRICAL NOTES:
 - 19.1. MIN. 200 AMP ELECTRICAL PANEL WITH TRANSFER SWITCH AND PREP FOR A GENERAC OR LIKE WHOLE HOSE GENERATOR SYSTEM. LOCATE
 - TRANSFER PANEL, METERBASE, AND GENERATOR PER OWNER. 19.2. ALL LIGHTS ARE TO BE LED WITH DIMMABLE FIXTURES AND DIMMING SWITCHES, DECOR STYLE. STYLE OF LIGHT AND SPECIFIC LOCATION PER
 - 19.3. PROVIDE ELECTRICAL CONNECTION IN CEILING OF BATH FOR FUTURE HOYER LIFT SYSTEM.
 - 19.4. ALL RECEPTACLES SHALL BE RATED AT 20 AMPS AND WITH #12/2 WITH GROUND, SOLID COPPER WIRING. 20. PLUMBING NOTES:
 - 20.1. MASTER TOILET TO BE ADA CHAIR HEIGHT, ELONGATED BOWL, BIDET
 - 20.2. ALL REMAINING TOILETS ARE TO BE ADA STYLE WITH SLOW CLOSE SEATS. 20.3. WATER HEATER #1 SHALL BE 50 GALLON ELECTRIC, SUPPLYING MASTER
 - BATH, KITCHEN, HALF BATH, AND WASHER. CONNECT W.H. TO GENERATOR. BRAND AND FINAL SIZE PER OWNER. 20.4. WATER HEATER #2 SHALL BE ELECTRIC ON DEMAND, BRAND DECIDED
 - BY OWNER, LOCATED AND MOUNTED ADJACENT TO 50 GALLON WATER HEATER. PIPE TO ENABLE CHOICE OF 50 GALLON OR ON DEMAND. 20.5. WATER HEATER #3 FOR BATHROOM #3 SHALL BE ELECTRIC ON DEMAND TYPE, SURFACE MOUNTED IN BATHROOM #2. BRAND AND FINAL
 - MOUNTING LOCATION TO BE SELECTED BY THE OWNER. 20.6. HOT WATER SUPPLY LINES SHALL BE A MANIFOLD TYPE SYSTEM VS. TRUNK SYSTEM, WITH INDIVIDUAL SUPPLY LINES BEING NO LARGER THAN 1/2". VERIFY LAYOUT WITH OWNER.
 - 20.7. ALL PLUMBING SHALL BE PEX TUBING.
 - 20.8. INSULATE ALL WATER LINES IN THE CRAWLSPACE.
 - 20.9. SEE GARAGE NOTE ON PLANS CONCERNING FLOOR DRAINS. IF FLOOR DRAINS USED, DRAIN TO EXTERIOR AND AWAY FROM HOUSE UNLESS DIRECTED TO CONNECT TO SEPTIC SYSTEM BY AHJ. 21. HVAC NOTES:
 - 21.1. PROVIDE MINI-SPLIT HVAC HEAT PUMPS ONLY FOR LIVING ROOM AND MASTER BEDROOM. CONDENSATE DRAINS SHALL DRAIN TO CRAWLSPACE, THEN TO MASTER BEDROOM SIDE OF HOUSE.
 - 21.2. ALL REMAINING HVAC EQUIPMENT SHALL BE HEAT PUMPS/ LP GAS AUXILIARY HEAT SUPPLY, AND THRU WALL VENT SYSTEM. 21.3. PROVIDE INLINE DUCT FACT ON RETURN LINE BETWEEN FILTER AND AIR
 - HANDLER FILTER, 8" or 12" AS REQUIRED BY MANUFACTURER. FAN SHALL BE ULTRA QUIET WITH TEMP AND HUMIDITY CONTROL. 21.4. PROVIDE 4" RETURN AIR DUCT IN MASTER BEDROOM CLOSET TO MAIN
 - RETURN LINE FOR HEAT PUMP. 21.5. PROVIDE AIR RETURNS IN LIVING ROOM, BEDROOMS #2 AND #3, AND
 - HALL ON MASTER BEDROOM SIDE OF HOUSE. 21.6. PROVIDE PROPANE CONNECTION (AND ELECTRICAL FAN CONNECTION) FOR NON-VENTED 32,000 BTU GAS LOGS IN LIVING ROOM.
 - 21.7. INSTALL WOOD STOVE PROVIDED BY OWNER, WITH ZERO CLEARANCE FLUE THRU ROOF. PROVIDE NON-COMBUSTIBLE WALL AND FLOOR FINISHES PER WOOD STOVE MANUFACTURER AROUND STOVE.

21.8. VENT DRYER DIRECTLY THROUGH WALL TO EXTERIOR.

EDGING TO BE SELECTED BY THE OWNER.

- 21.9. MASTER BATH EXHAUST FANS SHALL BE 75 CFM MINIMUM, NEAR SHOWER AND IN TOILET ROOM ABOVE TOILET. 22. FINISH NOTES
- 22.6. ALL FLOORS ARE LVP, STYLE AND COLOR SELECTED BY THE OWNER. PROVIDE UNDERLAYMENT IF REQUIRED BY MANUFACTURER. 22.7. CABINET STYLE AND LAYOUT BY OWNER

22.8. CABINET COUNTERTOPS ARE TO BE MARBLE OR QUARTZ, COLOR AND

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MARCH 3, 2025

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