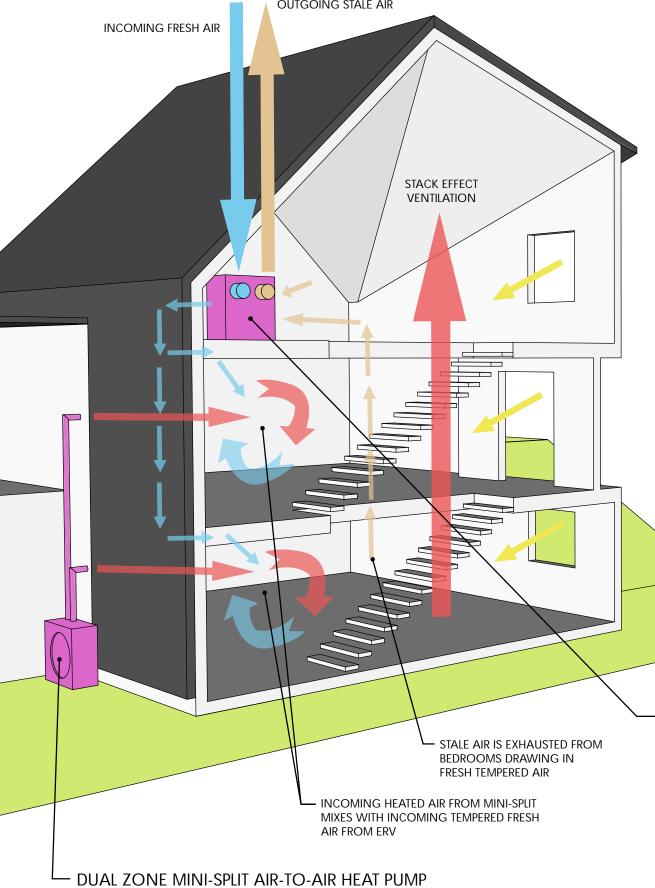


HEATING, COOLING, & VENTILATION



-PROVIDES HIGHLY ENERGY EFFICIENT HEATING & COOLING FOR THE ENTIRE HOME - TWO WALL MOUNTED INTERIOR UNITS PROVIDE POINT-SOURCE HEAT & AC AT THE MAIN & LOWER LEVELS - HEAT & AC IS DISTRIBUTED TO ALL THE ROOMS VIA THE ENERGY RECOVERY VENTILATOR



PASSIVE SYSTEMS

- LARGE SOUTH FACING WINDOWS - OPEN FLOOR PLAN FACILITATES DAYLIGHTING - DEEP EAVES & OVERHANGS BLOCK SUMMER SUN - OPEN STAIR ASSISTS SUMMER COOLING THROUGH STACK EFFECT VENTILATION

HIGH LEVELS OF INSULATION - STRUCTURAL INSULATED PANEL (SIP) WALL & ROOF

CONSTRUCTION PROVIDES AN AIR-TIGHT & HIGHLY INSULATED ENVELOPE - 8 1/4" THICK R-38 WALLS, 12 1/4" THICK R-48 ROOF - Double Glazed Fiberglass Windows INSULATED CONCRETE FORM FOUNDATION - INSULATED CONCRETE SLAB

ENERGY RECOVERY VENTILATOR (ERV) - Transfers heat from exhausted air into

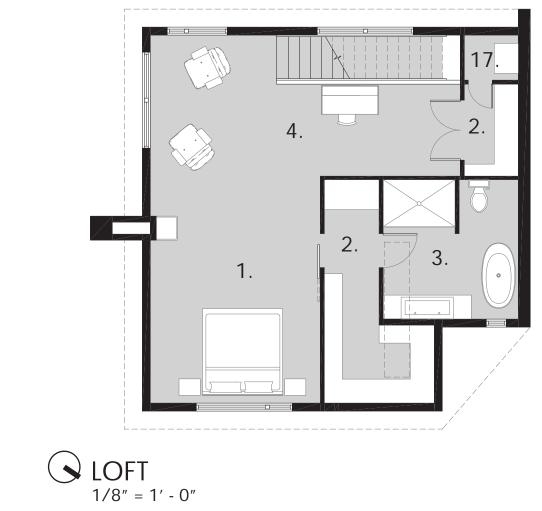
- FRESH AIR IS SUPPLIED IN PROXIMITY TO HEAT PUMP **INTERIOR UNITS** - STALE AIR IS EXHAUSTED FROM BEDROOMS TO BE REPLACED BY FRESH, TEMPERED AIR - PASSIVELY COOLS THE HOME ON SUMMER NIGHTS - FILTERS INCOMING AIR TO PROVIDE SUPERIOR INDOOR

INCOMING FRESH AIR



WALL SECTION 1/2" = 1' - 0"





— STANDING SEAM METAL ROOF

- 12 $\frac{1}{4}$ " ROOF SIP PANELS, R-48

— FLASHING & DRIP EDGE

— METAL FLASHING

— METAL FLASHING

- 1X4 WOOD TRIM

VAPOR BARRIER

--- METAL FLASHING

— WOOD FINISH FLOOR

 $\frac{3}{4}$ " T&G STURDIFLOOR

 $rac{1}{2}$ " Gypsum Board, Painted

— 2X4 WOOD GUARDRAIL, STAINED

 $11\,\%$ " I-JOISTS

-- $\frac{1}{4}$ " X 3" STEEL PLATE

— 3X3 HSS COLUMN, PAINTED

— 2X6 TREATED JOISTS

— METAL FLASHING — 2X10 FRAMING

— METAL FLASHING

— METAL FLASHING 1X4 WOOD TRIM

 STONE VENEER DRAINED CAVITY VAPOR BARRIER

— 3X3 HSS COLUMN, PAINTED

 $8\,1/4$ " SIP WALL PANEL, R-38

 TREATED SILL PLATE — METAL BASE FLASHING

— 4" CONCRETE SLAB

8" X 16" CONCRETE FOOTER

GRADE SLOPES 6" OVER 10'

 $rac{1}{2}$ " GYPSUM WALL BOARD, PAINTED

POLYETHYLENE VAPOR BARRIER

— 8" POURED CONCRETE SONOTUBE PIER

2" EXPANDED POLYSTYRENE RIGID INSULATION

4" GRANULAR CAPILLARY BREAK & DRAINAGE PAD

— 20" DIA. BIGFOOT FOOTER BELOW FROST DEPTH

8" INSULATED CONCRETE FORM FOUNDATION

— 2X4 WOOD DECKING, STAINED

— 3X10 GLULAM, STAINED, BOLTED TO HSS COLUMNS

— OPEN CELL SPRAY FOAM BETWEEN JOISTS

— DOUBLE GLAZED FIBERGLASS WINDOWS

— COMPOSITE ICE & WATER SHIELD OVER SLOPED BLOCKING

1" DIA. STEEL ROD

 $8 \frac{1}{4}$ " SIP WALL PANELS, R-38

 $rac{1}{2}$ " GYPSUM WALL BOARD, PAINTED

— Cedar T&G Soffit, Clear Stain — CEDAR T&G SIDING, CLEAR STAIN

— 1X4 WOOD TRIM, TO MATCH SIDING

DOUBLE GLAZED FIBERGLASS FRENCH DOORS

— OPEN CELL SPRAYFOAM BETWEEN JOISTS

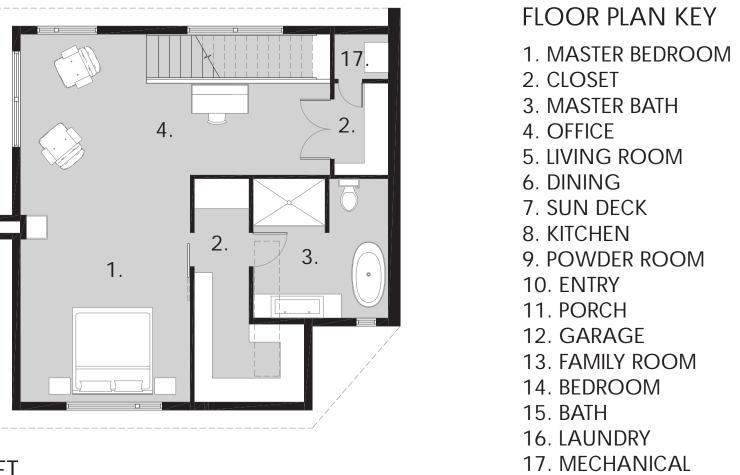
— COMPOSITE FASCIA, PAINTED

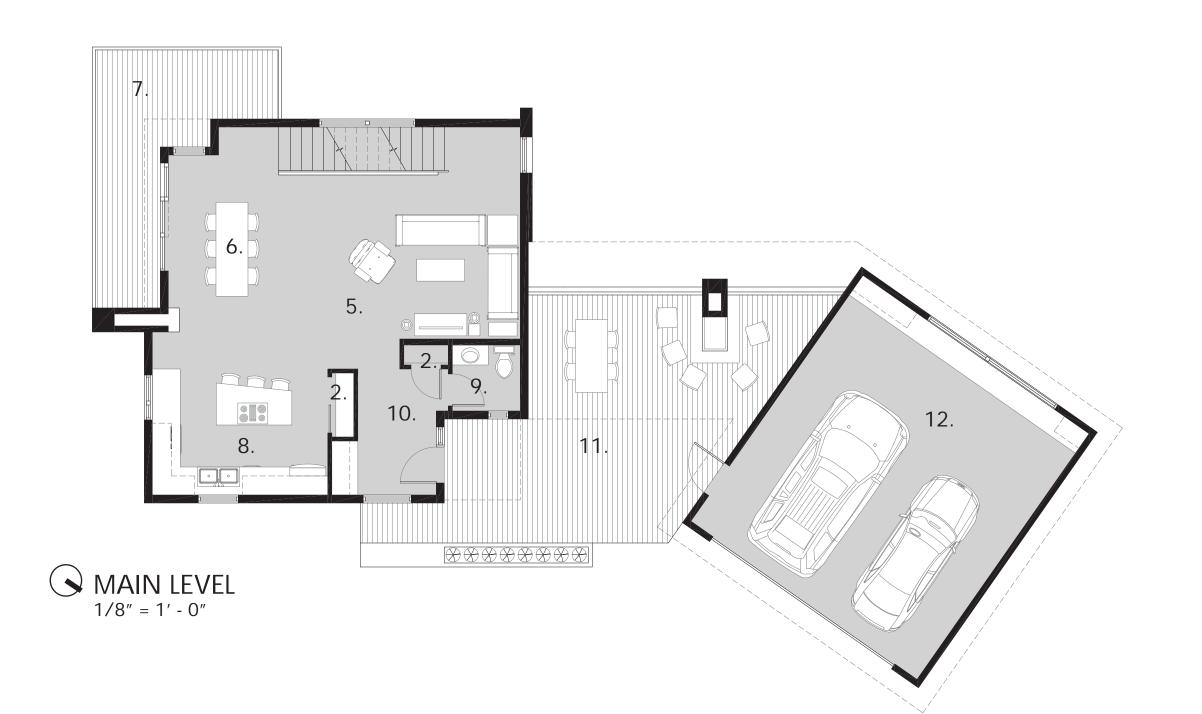
— CEDAR T&G SOFFIT, STAINED

— 1X4 WOOD TRIM TO MATCH SIDING

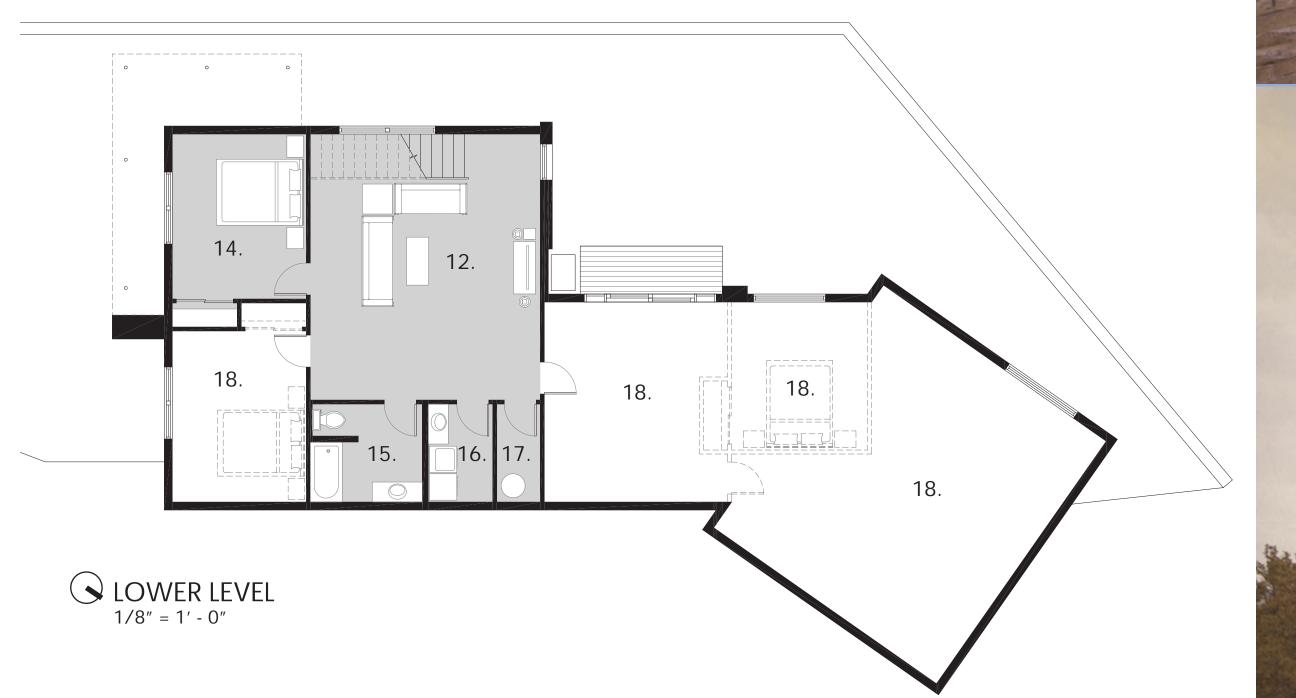
— DOUBLE GLAZED FIBERGLASS WINDOWS

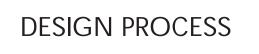
— VERTICAL LAP MT GHOSTWOOD SIDING, BLACKFOOT FINISH

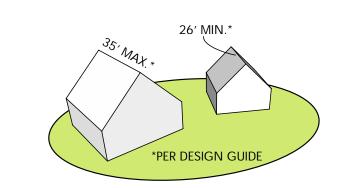




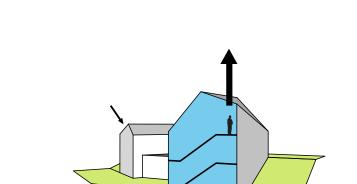
18. UNFINISHED







BEGIN WITH VERNACULAR FORM



ACCOMODATE STAIR & BOOST SOUTHERN EXPOSURE

