GENERAL NOTES:

THIS PLAN SET, COMPLIANT WITH THE BUILDING CONTRACT, PROVIDES BUILDING DETAILS FOR THE RESIDENTIAL
PROJECT. THE CONTRACTOR SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THESE PLANS BEFORE
STARTING WORK. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS SIMILAR
WORK THAT IS DETAILED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODES AND
LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE AND BEAR ANY FINES OR PENALTIES FOR CODE, ORDINANCE,
REGULATION OR BUILDING PROCESS VIOLATIONS. INSURANCES SHALL BE IN FORCE THROUGHOUT THE DURATION OF
THE BUILDING PROJECT.

WRITTEN DIMENSIONS AND SPECIFIC NOTES SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND GENERAL
NOTES. THE ENGINEER/DESIGNER SHALL BE CONSULTED IF SITE CONDITIONS ARE ENCOUNTERED
THAT ARE DIFFERENT THAN SHOWN. IF DISCREPANCIES ARE FOUND IN THE PLANS OR NOTES, OR IF A QUESTION
ARGES OVER THE INTENT OF THE PLANS OR NOTES, CONTRACTOR SHALL VERIFY AND IS RESPONSIBLE FOR ALL
DIMENSIONS (INCLUDING ROUGH OPENINGS).

ALL TRADES SHALL MAINTAIN A CLEAN WORK SITE AT THE END OF EACH WORK DAY.

PLEASE SEE ADDITIONAL NOTES CALLED OUT ON OTHER SHEETS.
PROJECT STATISTICS:
LOT SIZE: 22,127 sf (52 ACRES)
ANTICIPATED GROSS BUILD AREA: 1,515 sf
BLOG: ENVELOPE: 4,281 sf
ROOF: 3,317 sf
FRONTAGE HEIGHT: 31’-0’
LEVEL: 4.00’
SEVERAL: 1,850
GARAGE: 1,500
 SITE PLAN NOTES:
SOIL TYPE: SLOPE IS MODERATELY DEEP, WELL-DRAINED SOILS, TENDING TO MATERIAL TEXTURED FORM BASALT THAT IS A MODERATE MOUNTAIN OF LOSS IN THE UPPER PART OF THE PROFILE. THE PERMEABILITY IS TENDING TO MATERIAL TEXTURED FORM BASALT THAT IS A MODERATE MOUNTAIN.
SITE SURVEY TO BE COMPLETED TO VERIFY PIN LOCATIONS AND HOME LOCATION PRIOR TO EXCAVATION.
CALL BEFORE YOU DIG: 303-423-4000
MARKED TREES SHALL BE REMOVED PRIOR TO SITE WORK.

EROSION CONTROL NOTES:
1. INSTALL SILT FENCE PRIOR TO ANY EXCAVATION OR CONSTRUCTION
2. MINIMIZE SITE DISTURBANCE BY TIGHT CONTROL OF VEHICLES
3. ALL EXPOSED SOIL SHALL BE MULCHED WITH STRAW OR PADDY CLOTH TO MINIMIZE EROSION. NO SOIL SHALL BE LEFT IN AN EXPOSED CONDITION.
4. A HYDROSEEDING OF A ROOF CLOTH IS RECOMMENDED. USE AN ORGANIC TURF SEED AT NO LESS THAN DECRAVE 0-18. OTHER MANUFACTURER RECOMMENDATION IF NEEDED.
APPLICATION OF TURF SEEDER SHALL BE MADE AT 50% OF SCHEDULED SEED RATE INTO BARE AREAS WHERE SEED CAN BE MOVED BY FLOOD WATER

GARAGE:
DRAINAGE NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING DRAINAGE SYSTEMS
2. ALL DRAINAGE DRAINS SHALL BE UP TIGHT AND UNSTOPPABLE
3. PROVIDE PROPER DRAINAGE AT ALL EXISTING DRAINAGE SYSTEMS
4. REDUCE SURFACE DRAINAGE TO TOWARD FRENCH DRAIN
5. ALL DRAINAGE DRAINS SHALL BE CLEARED, GREASED TO REMOVE TREES, PLANTS, WEEDS AND OTHER LOCATION MATERIAL AND PREDICTED TO TOPS

CONCRETE GARAGE HALL: 300 SF
30’-0” GRAY FINISH
MIN. 10’-6”.

SITL FENCE DETAIL
72” X 12’ X 8’ X 6’ X 4’
GROUND TO ELEVATION
4.202.11

G A R A G E:
D R A I N A G E:
N O V E R V I E W:
R E N D E R I N G
C H I E F A R C H I T E C T
O V E R V I E W R E N D E R I N G
F O R I L L U S T R A T I O N O N L Y
N O S C A L E
SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN

B.

PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION. PRIOR
INSPECTION NOTES:

MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE

PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT
PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND

OVERVIEW READING

FOR ILLUSTRATION ONLY NO SCALE

INSPECTION NOTES:

1. PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND

COMPLIANCE PROCEDURES ACCORDING TO THE LOCAL BUILDING CODE.

2. SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE TO

THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE

PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION. PRIOR TO
THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION

REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL,

GENERAL CONTRACTOR AND SPECIAL INSPECTORS. DUTIES OF THE

SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:

A. OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT

DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE

IMMEDIATE ATTENTION OF THE CONTRACTOR FOR BUILDING OFFICIAL,

B. FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE

BUILDING OFFICIAL, ARCHITECT, ENGINEER, GENERAL CONTRACTOR AND

OWNER IN A TIMELY MANNER.

C. SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING

SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN

CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND

SPECIFICATIONS.

3. DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:

A. NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT

LEAST 24 HOURS BEFORE THE INSPECTION IS REQUIRED.

B. MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT

HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE

SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.

C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT

DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.

D. MAINTAIN JOB SITE COPIES OF ALL REPORTS SUBMITTED BY THE

SPECIAL INSPECTOR.

FLOOR PLAN NOTES:

1. ALL EXTERIOR DIMENSIONS ARE TO THE MAIN LAYER.

DIMENSIONS TO OPENINGS ARE TO THE DRAWING, ROUGH OPENING.

INTERIOR DIMENSIONS ARE TO THE FINISHED WALL.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND IS

RESPONSIBLE FOR ALL DIMENSIONS INCLUDING ROUGH

OPENINGS.
FOUNDATION NOTES
1. Foundations to bear a minimum of 24" Zeolon finish grade
2. All anchor bolts to be 5/8" x 12" @ 32" O.C. UNO.
3. All reinforcing steel shall be ASTM A-416, Grade 60.
4. All reinforcing steel to overlap a minimum of 24" for splices.
5. Provide corner bars to match continuous steel.
6. Minimum allowable concrete compressive strength shall be 3000 psi at 28 days.
7. Minimum aggregate size is 1". Maximum air entrainment is 2%.
8. Soil bearing capacity assumed to be 1500 psi (UBC Type 4 soil). If entrainment is 3%. Cement should be Type 1 or 2.

MASONRY NOTES
1. All concrete masonry units to be laid in conformance with ASTM C45.
2. Concrete Masonry units to be laid in Type I or Type II mortar in a running bond pattern. Mortar, grout, and reinforcement to be in conformance with current codes.
3. Comprehensive stress of grout to be 3500 psi. All cells to be fully grouted.
4. All reinforcing steel to be ASTM A-416, Grade 60.

BUILDING PERFORMANCE:
1. Heat loss calculations shall comply with regional and requirements of local codes. See calculations.
2. Forged, deck, foundation and garage areas not included in living area.
3. All exhaust fans to be vented directly to the exterior. All penetrations of the building envelope shall be sealed with caulking or foam.
4. Provide crawl space ventilation to meet local code requirements. Insulate all access doors/hatches to crawl spaces and attic to the equivalent rating of the wall, floor or ceiling through framing/penetrates, UNO.
5. Insulate all concrete slabs with 2" Rigid Insulation.

OVERVIEW RENDERING
FOR ILLUSTRATION ONLY NO SCALE

CEILING THROUGH WHICH THEY PENETRATE, UNO.
REQUIREMENTS INSULATE ALL ACCESS DOORS/ HATCHES TO CRAWL

PENETRATIONS OF THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULK

BUILDING PERFORMANCE:

MASONRY NOTES

ALL CONCRETE MASONRY UNITS TO BE LAYED IN CONFORMANCE WITH
ASTM C45.
2. CONCRETE MASONRY UNITS TO BE LAYED IN TYPE I OR TYPE II MORTAR,
IN A RUNNING BOND PATTERN. MORTAR, GROUT AND REINFORCEMENT TO BE
IN CONFORMANCE WITH CURRENT CODES.
3. COMPRESSIVE STRESS OF GROUT TO BE 3500 PSI. ALL CELLS TO BE FULLY
GROUTED.
4. ALL REINFORCING STEEL TO BE: ASTM A-416, GRADE 60.

BUILDING PERFORMANCE:
1. HEAT LOSS CALCULATIONS SHALL COMPLY WITH REGIONAL AND
REQUIREMENTS OF LOCAL CODES. SEE CALCULATIONS.
2. FORGED, DECK, FOUNDATION AND GARAGE AREAS NOT INCLUDED IN
LIVING AREA.
3. ALL EXHAUST FANS TO BE VENTED DIRECTLY TO THE EXTERIOR. ALL
PENETRATIONS OF THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULK
OR FOAM.
4. PROVIDE CRAWL SPACE VENTILATION TO MEET LOCAL CODE
REQUIREMENTS INSULATE ALL ACCESS DOORS/HATCHES TO CRAWL
SPACES AND ATTIC TO THE EQUIVALENT RATING OF THE WALL, FLOOR OR
CEILING THROUGH FRAMING/PENETRATES, UNO.
5. INSULATE ALL CONCRETE SLABS WITH 2" RIGID INSULATION.

GARAGE FLOOR PLAN - FLOOR "0"
1. All cabinets Maple Contrary Lacquer Finish & Stain with Home Owner prior to ordering.
2. Solid Hood Slab Doors. Confirm Door & Drawer Styles with Home Owner prior to ordering.
3. Install Hardware on Site.
4. Install Crown molding on site, hatch island cabinet color, confirm profile and dimension with Home Owner.
5. Cut oven openings on site, see appliance specifications.
6. Install hood and all appliances per manufacturer specifications.
7. All appliances to be on dedicated circuits. See appliance specifications for Safety Requirements.
8. Use Min 6' duct for hood. Confirm hood is 600 CFM min. Confirm all materials for backsplash and countertop with Home Owner prior to ordering.
9. Cabinet Glass to be tempered.
10. All Drawers to be tongue & groove, glide to be soft close.
11. LED lights for wall cabinets.
12. Countertop fabrication: Confirm all future measurements and centerlines.
MASTER BATH NOTES
1. CUSTOM VANITY & SINK MIRROR PV INTEGRATED LED LIGHT. SEE ELECTRICAL PLAN FOR ADDITIONAL DETAIL
2. ELONGATED TOILET SEE FRAMING DIAGRAM FOR PLUMBING ACCESS
3. INTEGRATED NON-Slip SURFACES IN BETWEEN MAIN TILE
4. BI-DIRECTIONAL SHOWER DOOR
5. JETTED TUB ACCESS
6. SHOWER BENCH EXTENDED FROM TUB PLATFORM
7. 3/8" TEMPERED GLASS
8. 2 X 3" WALL BLOCKING @ GRAB BARS & FIXTURES

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NO SCALE
**WINDOW SCHEDULE**

**WINDOW NOTES:**
1. Wood windows with clad exterior see energy ratings.
2. Interior window materials: Stained with factory finish.
3. Window hardware to be owner selected at time of order.
4. Window rough opening: 1/2" for top/bottom & 1/2" for sides, unglazed by MFG.
5. See window schedule calloff for windows that use a wood or steel beam for the header.
6. Bedroom windows sill finished must be within 44" of the floor and provide minimum clear openings of 5.5 sq. feet with height dimension not less than 24" and width dimension not less than 20".

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**DOOR SCHEDULE**

**DOOR NOTES:**
1. Main floor doors shall be 6'6" second floor doors 6'0", garage door 6'0", unglazed.
2. All doors shall be solid core 3 1/4" thick, unglazed.
3. Interior doors shall be stained.
4. Doors between garage and living area shall be 3 1/4" tight fitting solid core doors with a rating of 60 minutes. Door shall be self-closing.
5. Exterior exit doors shall be 36" min. net clear door way shall be 36" min. Door shall be operable from inside.
6. Garage doors shall be sectional, overhead doors in tempered glass.
7. All glazing within 10 in. of the floor and/or within 24 in. of any door (regardless of glass wall plane) are to have safety glazing.
8. All tub and shower enclosures are to be glazed with safety glass.

**Hopper Windows**

**Upper Curved Windows**

**Upper Shed Windows**

**Garage Door**

**Cascade Sliding Door**

**Entry Door Unit**

**Interior Door**
STAIR NOTES:

1. Stairways shall have a min. width of 36". Handrails may encroach a max. of 3 1/2" into the required width.
2. Treads shall have a min. width of 10". Stair treads must be uniform and can not vary from the largest to the smallest by more than 3/8".
3. Stairways shall have min. 6'-0" of headroom at the nose of the Stair.
4. Enclosed usable space under interior stairs shall be protected on the enclosed face with 4"x4"x4" steel wall board.
5. Stairways shall have at least one handrail located 36" above the nosing of treads and landings. The hand grip portion of handrails shall not be less than 1-1/2" or greater than 2" in cross-sectional division.
6. Handrails shall be continuous the full length of the stairs. The ends of handrails shall return to wall or terminate into a newel post or safety terminal.
7. Stairways having less than 2 risers do not require a handrail.
8. Guardrails shall be provided for at fountains, decks, balconies, stairways and landings where the adjacent surface is greater than 34" below and shall have a 3/4" min. weight.
9. Railings and guardrail baluster spacing shall be no greater than 4".
10. The triangular openings formed by the riser, tread, and bottom of guardrail shall not allow a 4" diameter sphere to pass through.
WALL SHEATHING SHALL BE 1/2'' INT-APA RATED OR 7/16'' OSB.  2'-0" MIN. WIDTH. CONTINUOUS HEADER. ALL OTHER SAME AS A.B.P.

3'-0" MIN. LENGTH w/ 1/2" PLYWOOD AND 8d COMMONS 6" O/C

WALL PANEL NOTES:

1. PROVIDE FIRE BLOCKING, DRAFT STOPS AND FIRE STOPS AS PER I.B.C.
2. PROVIDE DOUBLE FLOOR TRUSSES. UNDER ALL WALLS RUNNING CONFIRM WINDOW MFG. SPECS. BEFORE FRAMING.
3. SHEATHING SHALL BE AS FOLLOWS:
   - SILLS, PLATES BLOCKING, AND BRIDGING TO BE DF-#2.
   - EXPOSED ARCH BEAMS TO BE DF-#1 OR BETTER, CEDAR FOR ILLUSTRATION ONLY                NO SCALE

FRAMING & STRUCTURAL NOTES:

1. BRACED WALL PANELS SHALL BEGIN NO MORE THAN 12 1/2 FT FROM EACH END OF A BRACED WALL LINE (1 FT. FOR IQG-DEC. D E AND IQG DEC D G Q PROVIDE IQG DEC (1) REQUIREMENTS ARE MET)
2. WINDOW ROUGH OPENING: 12" FOR TOP/BOTTOM & 1/2" FOR SIDES.
3. WALL HEADERS ON EXTERIOR WALLS (2) X 12" OF 2 1/2" YMP. INSULATED, UNO
4. PROVIDE DOUBLE FLOOR TRUSSES UNDER ALL WALLS RUNNING PARALLEL.
6. PROVIDE POSITIVE CONNECTIONS AT EACH END OF ALL POSTS AND COLUMNS TO RESIST LATERAL LOADS (ADDITION)
7. ALL WOOD NOT SPECIFICALLY NOTED TO BE DF-#2 OR BETTER, ALL WOOD IN PERMANENT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED UNLESS AN APPROVED BARBER IS PROVIDED

LUMBER SPECIES:

A. POSTS, BEAMS, HEADERS, JOISTS, AND RAPPERS TO BE DF-#2
B. EXPOSED ARCH BEAMS TO BE DF-#1 OR BETTER, CEDAR
C. WALL PLATES BLOCKING AND BREEZING TO BE DF-#2
D. ALL STUDS TO BE DF-#1 OR BETTER
E. SHEATHING SHALL BE AS FOLLOWS:
   - ROOF SHEATHING SHALL BE 9/16" PLYWOOD
   - WALL SHEATHING SHALL BE 1/2" INT-APA RATED OR 7/16" OSB
   - FLOOR SHEATHING SHALL BE 5/8" X 8" INT-APA RATED OSB

FRONT WALL FRAME DETAIL

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HOME OWNER SHALL DO A WALK-THRU WITH RELEVANT INSTALLERS TO VERIFY THE EXACT LOCATION FOR OUTLETS, LIGHTS, SWITCHES, CABLE, DATA, PHONE, AUDIO, VACUUM, ETC.

ELECTRICAL NOTES:
1. PROVIDE MIN. 400 AMP SERVICE TO MAIN PANEL.
2. ALL APPLIANCES & UTILITIES TO HAVE DEDICATED CIRCUITS. SEE HGVS SPEC'S FOR REQUIREMENTS.
3. ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE GFCI. PER NATIONAL ELECTRICAL CODE REQUIREMENTS.
4. PROVIDE ONE SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR IN EACH ROOM AND ONE IN EACH CORRIDOR ACCESSING BEDROOMS. CONNECT SMOKE DETECTORS TO HOUSE FINDER AND INTERCONNECT SHOE DETECTORS TO HOUSE FINDER AND INTERCONNECT SO THAT, WHEN ANY ONE IS TRIPPED, THEY ALL WILL SOUND. PROVIDE BATTERY BACKUP FOR ALL UNITS.
5. CIRCUITS SHALL BE VERIFIED WITH HOME OWNER PRIOR TO WIRE INSTALLATION.
6. FIXTURES TO BE SELECTED BY HOME OWNER.
7. ALL SWITCHES TO BE ON OFF.
8. LOCATE SECURITY PANELS AS INDICATED IN THE PLAN. SYSTEM TO BE APPROVED BY HOME OWNER.

AUDIO:
1. LOCATE SPEAKERS AND AUDIO CONTROLS AS INDICATED IN THE PLAN. RUN CIRCUIT OF SPEAKER WIRING TO AUDIO HOME PANEL, SPECIFIED BY FLOOR.
2. AUDIO SPEAKERS TO BE APPROVED BY HOME OWNER.
3. LOCATE JACS AS INDICATED IN THE PLAN. INSTALL DATA CABLE PANEL SIMILAR TO 10' CABLE SYSTEM TO BE APPROVED BY HOME OWNER.
4. DATA / CABLE
   - LOCATE SECURITY PANELS AS INDICATED IN THE PLAN. SYSTEM TO BE APPROVED BY HOME OWNER.
HVAC & PLUMBING PLAN - BASEMENT

GENERAL PLUMBING & HVAC NOTES:

1. HVAC SHALL HAVE TWO ZONES, ONE FOR EACH FLOOR.
2. INSULATE HEATING TRUNKS AND BRANCH SUPPLY DUCTS IN UNFINISHED AREAS, CRAWL SPACES, ATTICS, GARAGES, ETC.
3. ALL DUCTS SHALL BE THRU-CEILING TRUSS WHERE POSSIBLE.
4. ENCLOSED ATTICS AND SPACES BETWEEN WAPERS SHALL HAVE CLEAR CROSS VENTILATION AREA TO THE OUTSIDE VENTS. 1/150 OF SPACE VENTILATED FOR BAYDLE AND SAE VENTS.
5. DRYER, WATER HEATER, KITCHEN AND BATHROOM VENTS SHALL EXHAUST TO THE OUTSIDE OF THE BUILDING AND BE EQUIPPED WITH A BACK DRAFT DAMPER. VENT DRYER VENT MAX LENGTH OF DUCT 14' WITH TWO 90 DEGREE ANGLES.
6. PROVIDE 30" CLEARANCE FROM RANGE TOP TO COMBUSTIBLE MATERIALS. FOR EXCEPTIONS, SEE INT. MECHANICAL CODE. SIDE CLEARANCE SHALL BE AS SPECIFIED BY PERMANENT MARKING ON THE UNIT. – IRC M1901.1
7. WATER CLOSETS TO HAVE A FLOW RATE OF 1.6 GALLONS OR LESS PER FLUSH. IRC P103.2
8. SHOWER HEADS TO HAVE FLOW RATE OF 2.5 GALLONS PER MINUTE OR LESS. IRC P103.2
9. TUB/BATH SHOULDRS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING TYPE. THE WATER TEMPERATURE SHALL BE AT A MAXIMUM OF 120°F.
10. INSTALL DRAIN DREDGE IN DRAIN AT ALL WATER SPLASH AREAS TO MINIMIZE ANY ABOVE GROUND DRAIN.
11. WATER SOFTENER UNIT SHALL CONDITION WATER BEFORE ENTERING THE WATER HEATERS AND THE GLOD WATER SOURCE. WATER TO REFRIGERATOR, KITCHEN AND BATH SHINS SHALL NOT HAVE SOFT WATER.
12. EACH SIDE GAS SHALL BE EQUIPPED WITH A BAG DRAFT PREVENTION DEVICE.
13. ALL GASE LINES SHALL BE SIZED FOR APPLIANCE LOAD. "BLACK" PIPE SHALL BE USED INSIDE THE BUILDING. "GREEN" PIPE WHERE UNDERGROUND OR EXPOSED TO WEATHER. ALL JOINTS SHALL BE TAPE WHERE BURIED OR EXPOSED TO WEATHER.
14. INSULATE VENTS LINES FOR SOUND CONTROL.
15. INSTALL CENTRAL VACUUM SYSTEM & FITTING. CONFIRM BRAND WITH HOMEOWNER.