

GENERAL NOTES AND SPECIFICATIONS CONTINUED

INTERIOR WOOD TRIM AND CASEWORK:

1. ARCHITECTURAL WOODWORK SHALL CONFORM TO THE ARCHITECTURAL WOODWORK INSTITUTES' ARCHITECTURAL WOODWORK QUALITY STANDARDS' PREMIUM GRADE QUALITY.
2. DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, NET WORK IS COMPLETED, AND HVAC SYSTEM IS OPERATING.
3. COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT POSSIBLE. DISASSEMBLE ONLY AS NEEDED FOR SHIPPING AND INSTALLING. WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCRIBING AND TRIMMING.
4. BACK-CUT OR GRAVE-BACK CUT TRIM MEMBERS OR OTHER FLAT MEMBER 2" AND WIDER, EXCEPT FOR MEMBERS WITH ENDS EXPOSED IN FINISH WORK.
5. CONDITION WOODWORK TO PREVAILING CONDITIONS BEFORE INSTALLING. MOISTURE CONTENT SHALL BE BETWEEN 8-10 PERCENT TO REDUCE SHRINKAGE.
6. INSTALL WOODWORK TO COMPLY WITH AVE SECTION 1100 FOR GRADE SPECIFIED.
7. INSTALL WOODWORK LEVEL, PLUMB, TRUE, AND STRAIGHT. SHIM AS REQUIRED WITH CONCEALED SHIMS. INSTALL TO A TOLERANCE OF 1/8 INCH IN 46 INCHES FOR LEVEL AND PLUMB.
8. SCRIBE AND CUT WOODWORK TO FIT ADJOINING WORK. SEAL CUT SURFACES, AND REPAIR DAMAGED FINISH AT CUTS.
9. INSTALL TRIM WITH MINIMUM NUMBER OF JOINTS POSSIBLE, USING FULL-LENGTH PIECES TO GREATEST EXTENT POSSIBLE. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS.
10. ALL WOODWORK TO BE STAINED SHALL BE CLEAR OF KNOTS WITH CONCEALED JOINTS.
11. EXPOSED ENDS OF RUNNING TRIM SHALL BE PROFILED OR HAVE SELF-MITERED RETURNS.
12. COPE OR MITER INSIDE CORNERS FOR TIGHT FITTING JOINTS. MITER OUTSIDE CORNERS FOR TIGHT FITTING JOINTS.
13. BLIND NAILING AND CONCEALED TYPE FASTENERS SHALL BE USED WHENEVER POSSIBLE. WHERE REQUIRED, EXPOSED FASTENERS SHALL BE TRIM STYLE NAILS OR SCREWS AND HEAD SHALL BE DEEP SET.

GYPSUM BOARD

1. ALL GYPSUM BOARD/CEMENTITIOUS PANELS SHALL BE OF THICKNESS INDICATED, WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.
2. REGULAR GYPSUM BOARD SHALL CONFORM TO ASTM C36 AND ASTM C1396, AND SURFACED WITH PAPER FRONT AND BACK.
3. WATER RESISTANT GYPSUM BOARD SHALL HAVE ADDITIVES TO ENHANCE WATER RESISTANCE OF CORE, COMPLY WITH ASTM C1396 AND ASTM C630, AND BE SURFACED WITH GREEN-COLORED PAPER AND GREY BACKING PAPER.
4. FIRE RESISTANCE RATED GYPSUM BOARD SHALL HAVE GLASS FIBERS TO ENHANCE FIRE RESISTANCE OF CORE, AND COMPLY WITH ASTM C1396 AND ASTM C630, TYPE X.
5. CEMENTITIOUS BACKER UNITS SHALL CONFORM TO ANSI A10.9.
6. JOINT TREATMENT TAPE SHALL CONFORM TO ASTM C415 AND 6A-216.
7. JOINT COMPOUND SHALL COMPLY WITH ASTM C475 AND BE VINYL TYPE PRE-MIXED COMPOUND OR SETTING TYPE LIGHTWEIGHT, JOB MIXED CHEMICAL-HARDENING COMPOUND.
8. TRIM ACCESSORIES SHALL CONFORM TO ASTM C1047, FORMED FROM GALVANIZED OR ALUMINUM-COATED STEEL SHEET, ROLLED ZINC, OR FLAT, STIC.
9. BESTING OF CORNERS AND CONCEALED JOINTS SHALL BE NONSAG, PAINTABLE, NONSTAINING LATEX SEALANT COMPLYING WITH ASTM G 834.
10. SOUND-ATTENUATION BLANKETS SHALL BE MINERAL FIBER BLANKETS CONFORMING TO ASTM C665, TYPE I (UNFACED) OR BLOWN CELLULOSE INSULATION.
11. DO NOT INSTALL INTERIOR PRODUCTS UNTIL INSTALLATION AREAS ARE ENCLOSED AND CONDITIONED. MAINTAIN ENVIRONMENTAL CONDITIONS WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS.
12. DO NOT INSTALL PANELS THAT ARE NET, THOSE THAT ARE MOISTURE DAMAGED, AND THOSE THAT ARE MOLD DAMAGED.
13. PROVIDE CORNER BEAD AT OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED. PROVIDE LG-BEAD (J-BEAD) AT EXPOSED PANEL EDGES, PROVIDE CONTROL JOINTS WHERE INDICATED.
14. INSTALL AND FINISH GYPSUM PANELS TO COMPLY WITH ASTM C840 AND 6A-214. FASTEN GYPSUM PANELS TO SUPPORTS WITH SCREWS AND ADHESIVE.
15. INSTALLATION OF CEMENTITIOUS BACKER UNITS SHALL COMPLY WITH ANSI A108.11.
16. ADHESIVE SHALL BE WATER RESISTANT AND PROVIDED BY MANUFACTURER AND SUITABLE FOR SUBSTRATE.
17. AT SUBSTRATES FOR TILE, PROVIDE LEVEL 2 FINISH; EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES.

VINYL FLOORING:

1. ALL FLOORING INSTALLATIONS SHALL COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. FLOOR TILE SHALL CONFORM TO ASTM F1066.
3. ADHESIVE SHALL BE WATER RESISTANT AND PROVIDED BY MANUFACTURER AND SUITABLE FOR SUBSTRATE.
4. LEVELING AND PATCHING COMPOUNDS SHALL BE LATEX MODIFIED, PORTLAND CEMENT, OR BLENDED HYDRAULIC CEMENT BASED FORMULATIONS AND PROVIDED BY FLOORING MANUFACTURER.
5. PREPARE ALL CONCRETE SUBSTRATES IN ACCORDANCE WITH ASTM F110. WOOD SUBSTRATES SHALL BE PREPARED IN ACCORDANCE WITH ASTM F1482.
6. ALL SUBSTRATES SHALL BE DRY AND FREE OF ANY CHEMICALS OR FOREIGN MATERIAL PRIOR TO INSTALLATION.
7. INSTALL REDUCER STRIPS AT EDGES OF FLOORING THAT WOULD OTHERWISE BE EXPOSED.
8. LAY OUT TILE/PLANK WIDTHS SO THAT OPPOSITE EDGES OF ROOM ARE EQUAL AND AT LEAST ONE HALF A TILE.
9. MAINTAIN FLOOR MATERIALS AND ROOM WHERE WORK OCCURS ABOVE 65 DEGREES AND BELOW 100 DEGREES FOR 48 HOURS PRIOR, DURING, AND 48 HOURS AFTER INSTALLATION.
10. STORE MATERIAL IN WEATHERTIGHT AND DRY STORAGE FACILITY. PROTECT FROM DAMAGE BEFORE, DURING AND AFTER INSTALLATION.
11. ACCLIMATE VINYL FLOOR COVERS IN AREA TO BE INSTALLED FOR A MINIMUM 48 HOURS PRIOR TO INSTALLATION.
12. INSPECT SUBSTRATE AND CORRECT AND CONDITIONS WHICH WILL IMPAIR PROPER INSTALLATION INCLUDING BUT NOT LIMITED TO TROWEL MARKS, PITS, DENTS, PROTRUSIONS, CRACKS, OR JOINTS PRIOR TO INSTALLATION.

JOINT SEALANTS:

1. DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 DEG. F. DO NOT INSTALL JOINT SEALANTS ON MATERIALS WHICH ARE NET, DAMP, OR CONTAIN FROST.
2. PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS.
3. SEALANT FOR GENERAL EXTERIOR USE WHERE ANOTHER TYPE IS NOT SPECIFIED SHALL BE ONE OF THE FOLLOWING: SINGLE-COMPONENT, NONSAG POLYSULFIDE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 12-1/2; USES NT, M, G, A, AND O. SINGLE-COMPONENT, NEUTRAL-CURING SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, NT, M, G, A, AND O. SINGLE-COMPONENT, NONSAG URETHANE SEALANT.
4. SEALANT FOR EXTERIOR TRAFFIC-BEARING JOINTS, WHERE SLOPE PRECLUDES USE OF POURABLE SEALANT SHALL BE SINGLE-COMPONENT, NONSAG URETHANE SEALANT, ASTM C 920, TYPE S; GRADE P; CLASS 25; USES T, M, G, A, AND O3. SEALANT FOR USE IN INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS AND TOILET ROOMS AND AROUND PLUMBING FIXTURES SHALL BE SINGLE-COMPONENT, MILDEX-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES NT, G, A, AND O; FORMULATED WITH FUNGICIDE.
6. SEALANT FOR INTERIOR USE AT PERIMETERS OF DOOR AND WINDOW FRAMES SHALL BE LATEX SEALANT, SINGLE-COMPONENT, NONSAG, MILDEX-RESISTANT, PAINTABLE, ACRYLIC-EMULSION SEALANT COMPLYING WITH ASTM C834.
7. PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER.
8. CYLINDRICAL SEALANT BACKINGS SHALL BE OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE AND SHALL COMPLY WITH ASTM C1930.
9. BOND-BREAKER TAPE SHALL BE POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
10. INSTALLATION SHALL COMPLY WITH ASTM C1193 AND COMPLY WITH ASTM C414 FOR JOINT SEALANTS IN ACoustICAL APPLICATIONS.
11. REMOVE DIRT, DUST, OIL, GREASE, RUST, LOOSE MATERIALS, AND EXISTING SEALANTS FROM SURFACES THAT CONTACT SEALANTS. CLEAN SURFACES 1 TO 2 HOURS BEFORE APPLYING SEALANTS.
12. INSTALL SEALANTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WITH UNIFORM APPEARANCE AND IN PROPER RELATION TO ADJACENT MATERIALS.
13. REMOVE EXCESS SEALANTS FROM GLASS, METAL, AND PLASTIC SURFACES WHILE STILL UNCURED. REMOVE EXCESS SEALANTS FROM POROUS SURFACES AFTER INITIAL CURE OR SET-UP.

VINYL SIDING:

1. INSTALL VINYL SIDING AND ACCESSORIES IN ACCORDANCE WITH ASTM D 4756 AND THE MANUFACTURER'S WRITTEN SPECIFICATIONS.
2. FASTENERS USED TO SECURE VINYL SIDING SHALL BE NON-CORROSIVE AND PENETRATE SOLID SUBSTRATE BY 1/2" MIN.
3. IF FACE NAILING IS REQUIRED, PREDRILL HOLE IN INCONSPICUOUS AREA. THE HOLE MUST BE LARGER THAN THE SHANK OF THE NAIL, BUT SMALLER THAN THE HEAD TO ALLOW FOR EXPANSION. THE HEAD SHALL BE PAINTED TO MATCH SIDING.
4. FASTENING OF PANELS SHOULD NOT RESTRICT PANEL MOVEMENT AND EXPANSION.
5. INSTALL PANELS WITH SPACERS AND BRIMS AS RECOMMENDED BY THE MANUFACTURER FOR THE TEMPERATURE DURING INSTALLATION.

PAINT:

1. PAINT PRODUCTS SHALL BE SHERWIN WILLIAMS OR EQUAL.
2. PROVIDE MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATES.
3. BLOCK FILLERS AND PRIMERS FOR EACH COATING SYSTEM SHALL BE FROM SAME MANUFACTURER AS FINISH COATS.
4. PROVIDE MANUFACTURER'S BEST-QUALITY PAINT MATERIAL OF COATING TYPES SPECIFIED THAT ARE FORMULATED AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED.
5. STORE AND DISPOSE OF SOLVENT BASED MATERIAL, AND MATERIALS USED WITH SOLVENT-BASED MATERIALS, IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.
6. ENSURE SURFACES RETAINING SUBSTRATES TO RECEIVE FINISHES HAVE MOISTURE CONTENT WITHIN TOLERANCES ALLOWED BY COATING MANUFACTURER.
7. DO NOT START WORK UNTIL SURFACES TO BE FINISHED ARE IN PROPER CONDITION TO PRODUCE FINISHED SURFACES OF UNIFORM, SATISFACTORY APPEARANCE.
8. REMOVE HARDWARE, LIGHTING FIXTURES AND SIMILAR ITEMS THAT ARE NOT TO BE PAINTED. MASK ITEMS THAT CANNOT BE REMOVED. REINSTALL ITEMS IN EACH AREA AFTER PAINTING IS COMPLETE.
9. DO NOT PAINT PRE-FINISHED ITEMS, ITEMS WITH AN INTEGRAL FINISH, OPERATING PARTS, AND LABELS, UNLESS OTHERWISE INDICATED.
10. THINNER ADDITION SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS. DO NOT USE KEROSENE OR OTHER ORGANIC SOLVENTS TO THIN WATER-BASED PAINTS. WHERE PAINT IS TO BE SPRAYED, THIN ACCORDING TO MANUFACTURER'S CURRENT GUIDELINES.
11. PAINT EXPOSED SURFACES, (NEW), UNLESS OTHERWISE INDICATED. PAINT THE BACK SIDE OF ACCESS PANELS.
12. APPLY COATINGS BY BRUSH, ROLLER, SPRAY OR OTHER APPLICATORS ACCORDING TO COATING MANUFACTURER'S WRITTEN INSTRUCTIONS. USE BRUSHES ONLY FOR EXTERIOR PAINTING AND WHERE THE USE OF OTHER APPLICATORS IS NOT PRACTICAL. USE ROLLERS FOR FINISH COAT ON INTERIOR WALLS AND CEILINGS.
13. APPLY PIGMENTED (OPAQUE) FINISHES TO COMPLETELY COVER SURFACES PROVIDING A SMOOTH, OPAQUE SURFACE OF UNIFORM APPEARANCE.
14. APPLY TRANSPARENT (CLEAR) FINISHES USING MULTIPLE COATS TO PRODUCE A GLASS-SMOOTH SURFACE FILM OF EVEN THICKNESS.
15. REMOVE ALL SURFACE MARKS, BRUSH MARKS, ROLLER MARKS, ORANGE-PEEL CLOUDINESS, COLOR IRREGULARITY, OR OTHER APPLICATION IMPERFECTIONS.
16. PROVIDE OWNER WITH ONE QUART OF EACH COLOR AND TYPE OF FINISH COAT PAINT USED ON PROJECT, IN CONTAINERS, PROPERLY LABELED AND SEALED.

PLUMBING NOTES:

1. THESE DOCUMENTS ARE DIAGRAMATIC DEVELOPED FOR DESIGN/BUILD AND ARE FOR REFERENCE ONLY. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SYSTEM, REQUIRED SUBMITTALS, AND ENGINEERING. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO PROVIDE COMPLETE OPERABLE SYSTEMS REGARDLESS IF NOTED ON PLANS OR NOT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES ALL WORK SHALL COMPLY WITH THE LATEST MICHIGAN, FEDERAL, AND LOCAL CODES, AND OSHA, REQTS.
3. FIXTURE CONNECTIONS SHALL BE CHROME PLATED FLEXIBLE BRASS PIPE. ALL WATER SUPPLY CONNECTIONS SHALL BE PROVIDED WITH WHEEL HANDLE STOPS OR VALVES WITH ESCRUTCHONS, BRASS-CRAFT CR112A OR EQUAL.
4. DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE "L" OR TYPE "M" COPPER W/UNROUGHT COPPER FITTINGS AND #5 SOLDER. BELOW GROUND PIPING TO BE TYPE "K" COPPER W/1/2" ARMAFLEX INSULATION, PROVIDE INSULATING UNIONS IN FERROUS TO NON-FERROUS PIPE CONNECTIONS. ALTERNATIVELY, PEK MAY BE USED FOR ABOVE GROUND HOT AND COLD WATER SUPPLY PIPING. USE BLUE FOR COLD WATER LINES AND RED FOR HOT WATER LINES.
5. ALL SANITARY PIPING SHALL BE CAST IRON ANSI A21.10 WITH "NO HUB" FITTINGS OR SCHEDULE 80 OR 40 PVC W/SOLVENT WELD JOINTS. "NO-HUB" FITTINGS SHALL BE NEOPRENE SLEEVE WITH STAINLESS STEEL SHIELD CONFORMING TO AISI 301 AND ASTM C564.
6. PROVIDE FLOOR DRAINS WHERE SHOWN ON PLAN W/ DEEP SEAL TRAPS AND POLISHED NICKEL ALLOY STRAINER.
7. PROVIDE ZURN Z-100 SERIES "SHOCKTROLS" WITH STABILIZED 18-8 STAINLESS STEEL CASING AND PRESSURE CHARGED BELLOW FOR BOTH HOT AND COLD WATER.
8. ALL RADIANT HEAT PIPING SHALL BE 1/2" DIA. COPPER PIPE WITH SCREWED JOINTS OR #304 CORRUGATED STAINLESS STEEL WITH YELLOW PVC PROTECTIVE COVERING. SUPPORT ALL PIPING AS REQD BY CODE. PROVIDE DIRTLES, UNION, SHUT-OFF VALVE, AND FLEXIBLE CONNECTIONS TO ALL EQUIPMENT. PRESSURE TEST ALL PIPING PRIOR TO PUTTING INTO USE. COORDINATE REQUIREMENTS WITH LOCAL GAS COMPANY PRIOR TO INSTALLATION.
9. WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES.
10. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED, PROTECTED, AND INSULATED TO ALLOW TOTAL DRAINAGE.
11. USE PIPE HANGERS WHERE REQUIRED WITH SADDLES TO AVOID CRUSHING INSULATION. ON PIPING 1"Ø OR SMALLER, SPACE HANGERS AT 8'-0" O.C. FOR PIPES 1 1/4"Ø OR LARGER, INSTALL HANGERS AT 4'-0" O.C.
12. COORDINATE ROUTING OF PIPING WITH OTHERS, LINE UP WORK TRUE TO OR AT A RIGHT ANGLE TO ADJACENT SURFACES AND IN A WORKMANLIKE MANNER. SUPPORT ALL INTERIOR PIPING FROM BUILDING STRUCTURE BY MEANS OF A HANGER OR INSERTS TO MAINTAIN PITCH OF LINES, PREVENT FRICTION, AND TO SECURE PIPING PLACE.
13. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 150 PSIG BEFORE COVERING.
14. ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH A MINIMUM OF 1/2" ELASTOMERIC INSULATION AND WITHIN BUILDING INSULATION.
15. FLUSH AND STERILIZE THE WATER DISTRIBUTION SYSTEM PRIOR TO BEING PLACED INTO SERVICE.
16. SHOWER VALVE SHALL BE COMBINATION PRESSURE BALANCED/THERMOSTATIC MIXING TYPE.
17. PROVIDE CLEANOUTS AT THE FOOT OR BASE OF EACH VERTICAL WASTE STACK AND IN ALL DRAINAGE CHANGES IN DIRECTION OVER 45 DEGREES. CLEANOUT SHALL BE PROVIDED WITH HEX PLUGS IN CONCEALED LOCATIONS AND RECESSED PLUGS WITH COVER PLATES IN EXPOSED LOCATIONS.
18. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MINIMUM 12' ABOVE THE ROOF LINE.

MECHANICAL NOTES:

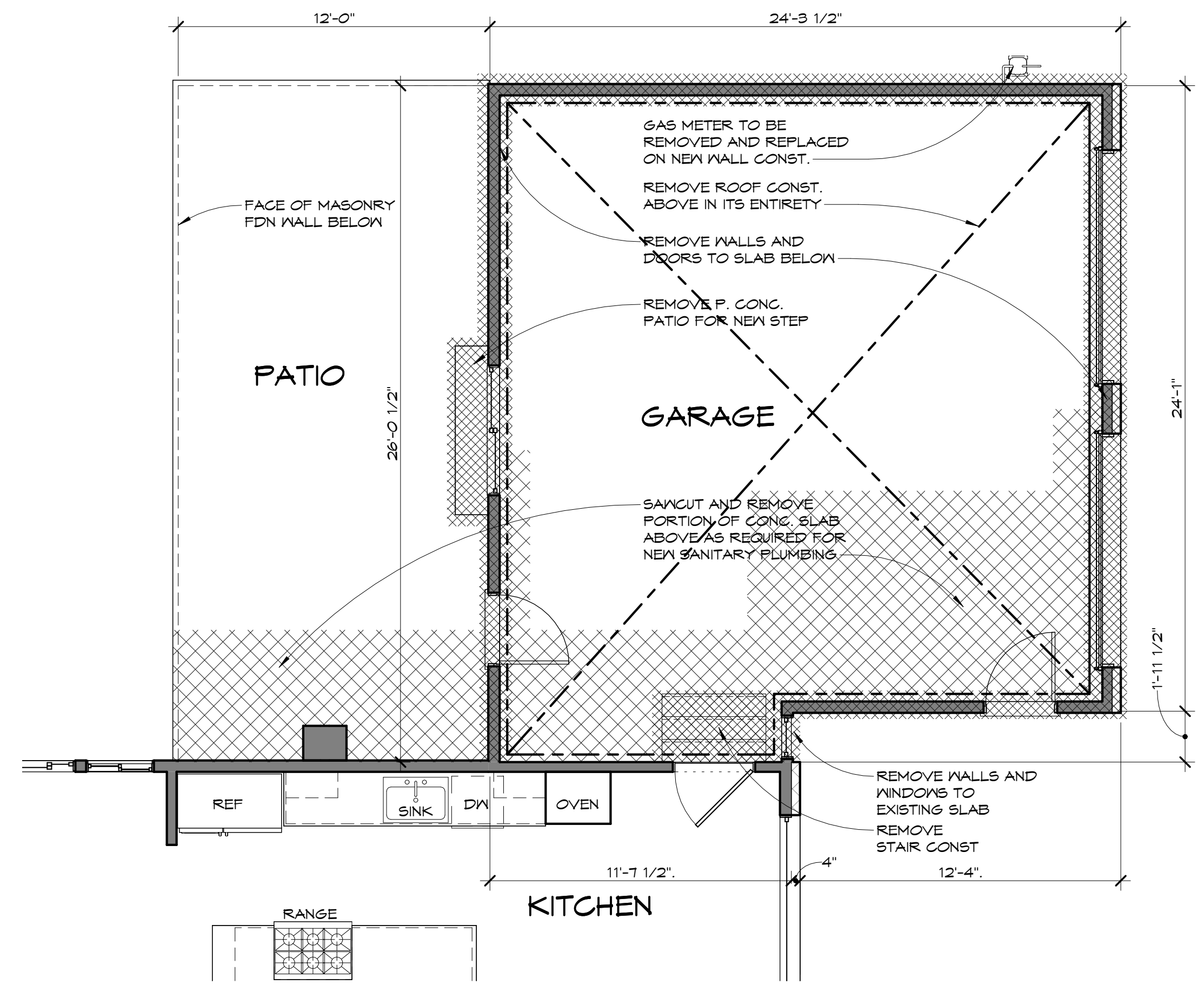
1. THESE DRAWINGS ARE DIAGRAMATIC AND ARE FOR REFERENCE ONLY. ALL ENGINEERING, SUBMITTALS, PERMITS, LICENSES, FEES, ETC. SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS INDICATED AND/OR REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS AS OUTLINED.
3. WORK SHALL BE IN FULL COMPLIANCE WITH THE LATEST MICHIGAN, FEDERAL, AND LOCAL CODES, AND OSHA.
4. ALL DUCTWORK AND FITTINGS SHALL BE MINIMUM 28 GAUGE GALVANIZED OR ALUMINUM CONSTRUCTION IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. ANY SIDE, TOP OR BOTTOM OF A FITTING, OR LENGTH OF DUCTWORK 12" OR WIDER SHALL BE CROSS BROKE TO CONTROL DUCT BANGING.
5. ALL DUCT WORK IN UNCONDITIONED SPACES TO BE INSULATED IN ACCORDANCE WITH LATEST APPROVED VOLUME CONTROL, MFG'S AND MECA'S MINIMUM INSULATION STANDARDS. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 80 OR LESS.
6. ALL HORIZONTAL AND VERTICAL SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ISSUE OF SMACNA'S AND ASHRAE'S MINIMUM INSTALLATION STANDARDS.
7. ALL DUCT CONNECTIONS SHALL BE SEALED WITH DUCT MASTIC.
8. PROVIDE VOLUME CONTROL, MFG'S AND MECA'S MINIMUM INSULATION STANDARDS. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 80 OR LESS.
9. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN FIVE FEET IN LENGTH. ANY LENGTHS OVER FIVE FEET SHALL BE RIGID DUCTWORK. FLEX DUCT WHERE INSTALLED SHALL HAVE NO ANGULAR BENDS.
10. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOYS CONFORMING TO SMACNA DUCT

MECHANICAL NOTES (continued):

11. DIFFUSERS SHALL BE 1" MINIMUM OR PAINTED STEEL, EACH EQUIPPED WITH OFFSETTING BLADE DAMPER.
12. RETURN AIR GRILLES SHALL BE ALL ALUMINUM OR PAINTED STEEL CONSTRUCTION.
13. PAINT WALL CAVITIES BEHIND RETURN AIR GRILLES BLACK.
14. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT CONNECTIONS AT ALL EQUIPMENT.
15. CONDENSATE DRAINAGE FROM AIR HANDLING UNITS SHALL BE TRAPPED AND RUN TO FLOOR DRAIN OR SUMP DRAIN.
16. PROVIDE PROGRAMMABLE THERMOSTATS SHALL CAPABLE OF MAINTAINING TWO SEPARATE PROGRAMS AND FOUR TEMPERATURE SETTINGS EACH DAY. THERMOSTATS SHALL BE LOCATED BE FIELD COORDINATED WITH OWNER TO AVOID INTERFERENCE WITH WALL MOUNTED WORK.

ELECTRICAL NOTES:

1. ALL ENGINEERING, SUBMITTALS, PERMITS, AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. WORK SHALL BE IN FULL COMPLIANCE WITH THE LATEST MICHIGAN, FEDERAL, AND LOCAL CODES, AND OSHA.
3. COORDINATE AND VERIFY ROUGH-IN LOCATIONS, FINAL CONNECTIONS, MOUNTING HEIGHTS, VOLTAGE, CURRENT, AND PHASE REQUIREMENTS PRIOR TO INSTALLATION OF ALL MOTORS, PANELS, EQUIPMENT, ETC. PROVIDED BY OTHERS.
4. COORDINATE NETWORK/LOW VOLTAGE CONTROLS SERVICE INSTALLATION, PROVIDE ALL CONDUITS, OUTLETS, PULL STRINGS, BACKBOARDS, ETC. AS REQUIRED.
5. PANELS, CABINETS, CONDUIT SYSTEMS, STARTERS, MOTOR FRAMES, ETC SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. AND LOCAL CODES.
6. MATERIALS SHALL BE NEW AND BEAR THE U.L. LABEL OR LISTING, WHEREVER STANDARDS HAVE BEEN ESTABLISHED.
7. FEEDERS SHALL BE TYPE "TH" OR "XHHN", BRANCH CIRCUIT WIRING SHALL BE TYPE "TW" OR "THHN/THWN", #12 MINIMUM. ALL WIRE SHALL BE COPPER, HAVING 600 VOLT INSULATION.
8. ALL OUTLET WIRING LONGER THAN 100' SHALL BE INCREASED ONE CODE SIZE MIN. - VERIFY VOLTAGE DROP COMPLIES WITH THE REQUIREMENTS OF THE N.E.C.
9. SWITCHES SHALL BE 15A 120/240V, 1 POLE, 2 POLE, 3 AND 4 WAY AS REQUIRED.
10. RECEPTACLE OUTLETS SHALL BE PROVIDED IN ACCORDANCE W/ SECTIONS E3401 & E3402 OF THE 2015 MRC.
11. LIGHTING OUTLETS SHALL BE PROVIDED IN ACCORDANCE W/ SECTION E3403 OF THE MRC. INSTALL DIMMERS ON SWITCHES AS DIRECTED BY OWNER.
12. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE 15A, 125V. OUTLETS IN KITCHENS SHALL BE 20A 125V DUPLEX GROUNDING TYPE. SPECIAL PURPOSE RECEPTACLES 30A, 40A, 50A, -2P OR 3P ETC SHALL BE SPECIFICATION GRADE. OUTLETS IN KITCHENS, BATHROOMS, GARAGES, STORAGE ROOMS, AND EXTERIOR APPLICATIONS SHALL BE GROUND FAULT INTERRUPT PROTECTED.
13. VERIFY ALL LIGHTING FIXTURE, AND SWITCH LOCATIONS W/ OWNER PRIOR TO INSTALLATION.
14. SINGLE PHASE MOTOR STARTERS SHALL BE MANUAL TOGGLE SWITCH WITH THERMAL OVERLOADS, FLUSH MOUNTED WITH PILOT LIGHT ALLEN BRADLEY #600 OR EQUAL.
15. DISCONNECTS SHALL BE HEAVY DUTY TYPE FUSED IN A NEMA 1 ENCLOSURE. DISCONNECTS INSTALLED OUTDOORS SHALL BE IN A NEMA 3R ENCLOSURE.
16. ALL FUSES SHALL BE DUAL ELEMENT TIME DELAY 200,000 A.I.C. RATED.
17. SMOKE ALARMS AND CARBON MONOXIDE DETECTORS SHALL BE PROVIDED IN ACCORDANCE W/ SECTION 314 AND 315 THE 2015 MRC.
18. MINIMUM SIZE CONDUIT SHALL BE 1/2" THINWALL (EMT). CONDUIT INSTALLED ON OR UNDER FLOOR SHALL BE 3/4" MINIMUM. CONDUIT INSTALLED IN FINISHED AREAS SHALL BE CONCEALED.
19. PROVIDE MINIMUM 50 CFM EXHAUST FANS WITHIN EACH BATHROOM VENTED THROUGH EXTERIOR WALL W/ MIN 3"Ø DUCT.
20. OUTLETS TO BE INSTALLED AT 18" A.F.F. AND AT 42" ABOVE FINISH FLOOR AT COUNTERS UNO. SWITCHES SHALL BE MOUNTED AT 48" A.F.F. UNO.



DEMOLITION NOTES

1. COORDINATE ALL DIMENSIONS OF NEW CONSTRUCTION AS RELATED TO EXISTING DIMENSIONS IN FIELD.
2. REMOVE ALL ITEMS (INCLUDING ASSOCIATED INCIDENTAL ITEMS) DENOTED ON PLANS AS NECESSARY TO IMPLEMENT NEW WORK INCLUDING BUT NOT LIMITED TO WALLS, ROOFS, AND FLOORS DURING DEMOLITION AND REBUILDING OPERATIONS.
3. PROVIDE TEMPORARY BRACING, SHORING, AND SUPPORT FOR STRUCTURAL SYSTEMS TO PREVENT POSSIBLE DAMAGE AND/OR DISPLACEMENT OF EXISTING CONSTRUCTION DURING DEMOLITION AND REBUILDING OPERATIONS.
4. PROTECT STRUCTURES AND SURFACES SCHEDULED TO REMAIN.
5. NOTIFY ARCHITECT AND OWNER OF ANY STRUCTURAL DAMAGE EXISTING OR INCURRED.
6. IDENTIFICATION, ABATEMENT, AND/OR DISPOSAL OF ANY HAZARDOUS MATERIAL (I.E. LEAD, ASBESTOS) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. ITEMS SHOWN ARE EXISTING TO REMAIN UNO.
8. REMOVE INTERIOR AND EXTERIOR FINISHES AS REQUIRED FOR PROPOSED RENOVATIONS AS REQUIRED.

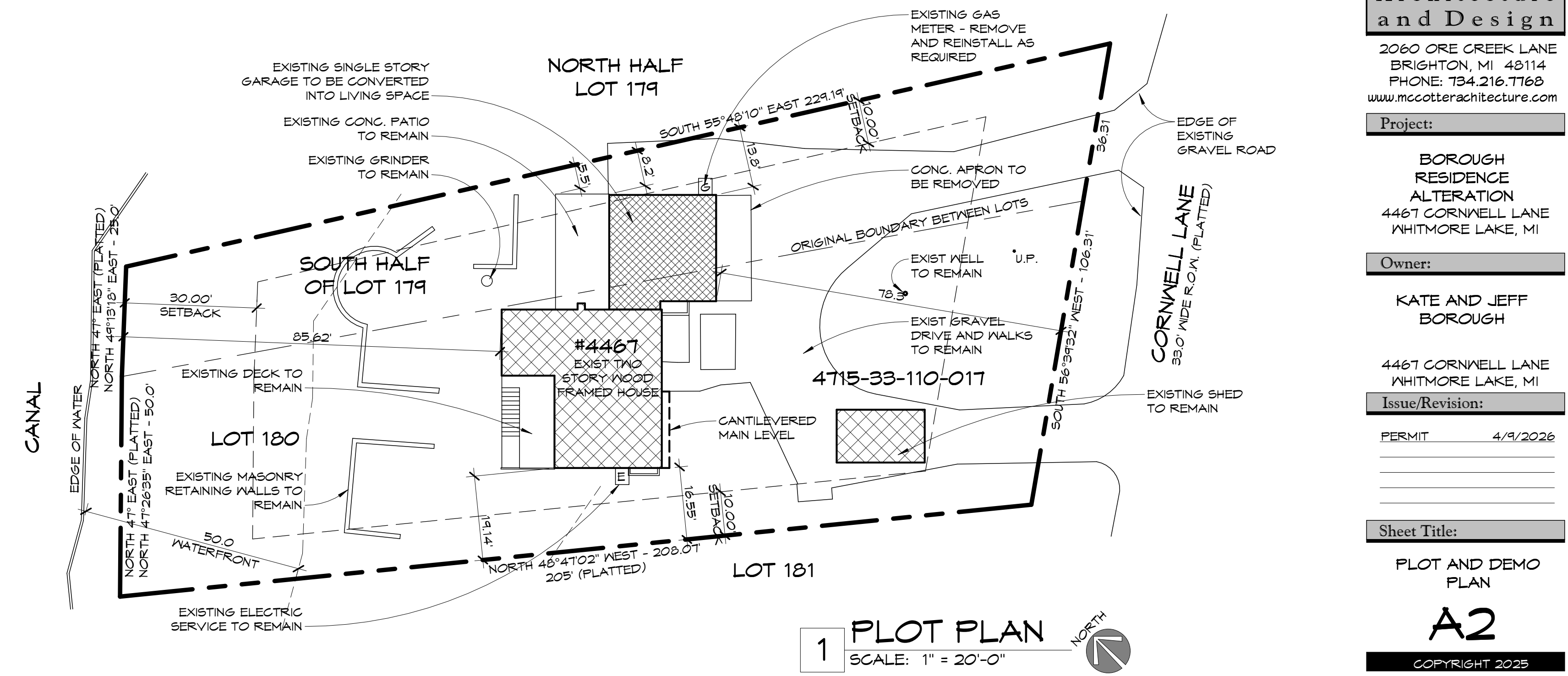
2 MAIN LEVEL DEMO PLAN

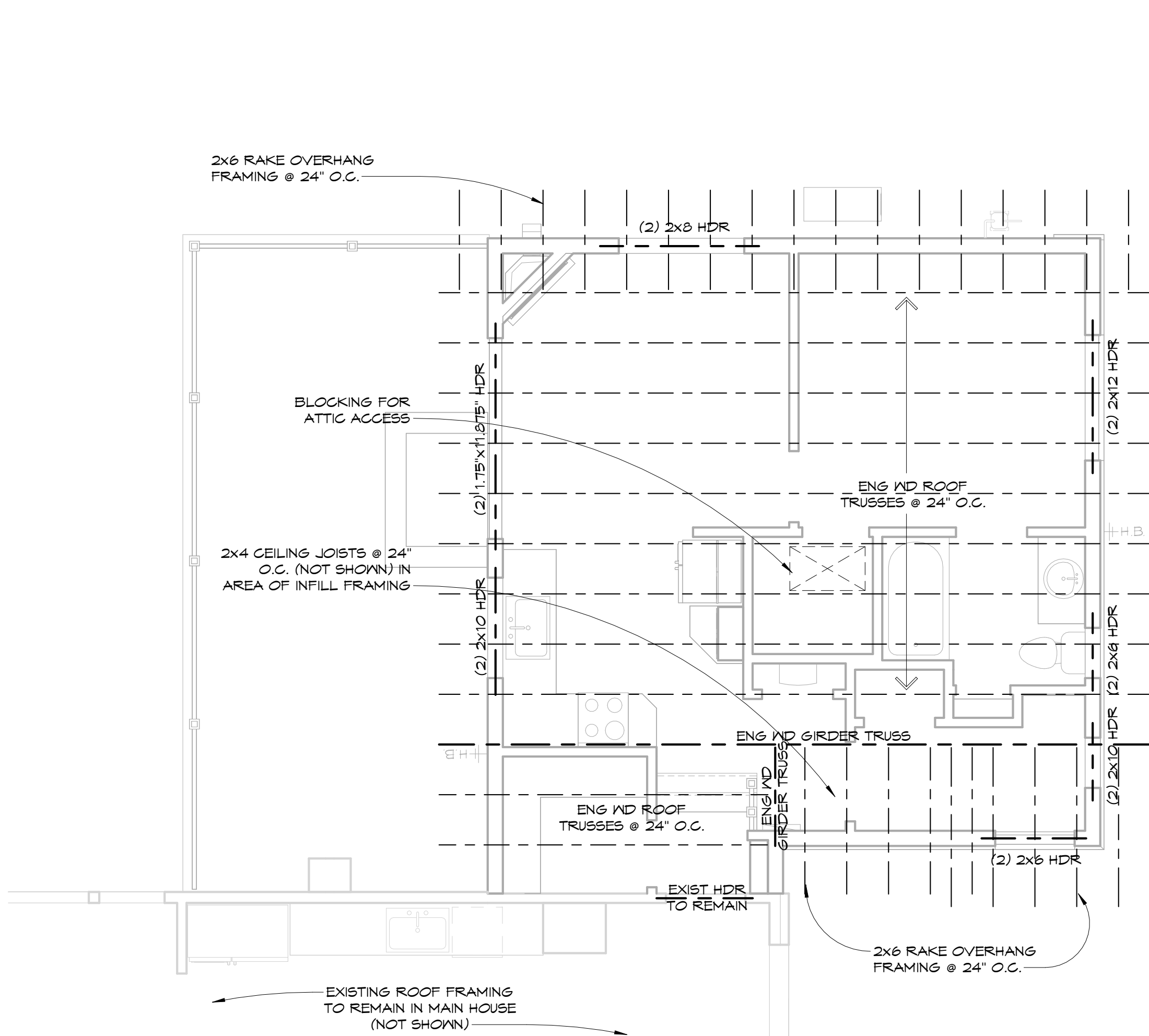
SCALE: 1/4" = 1'-0"

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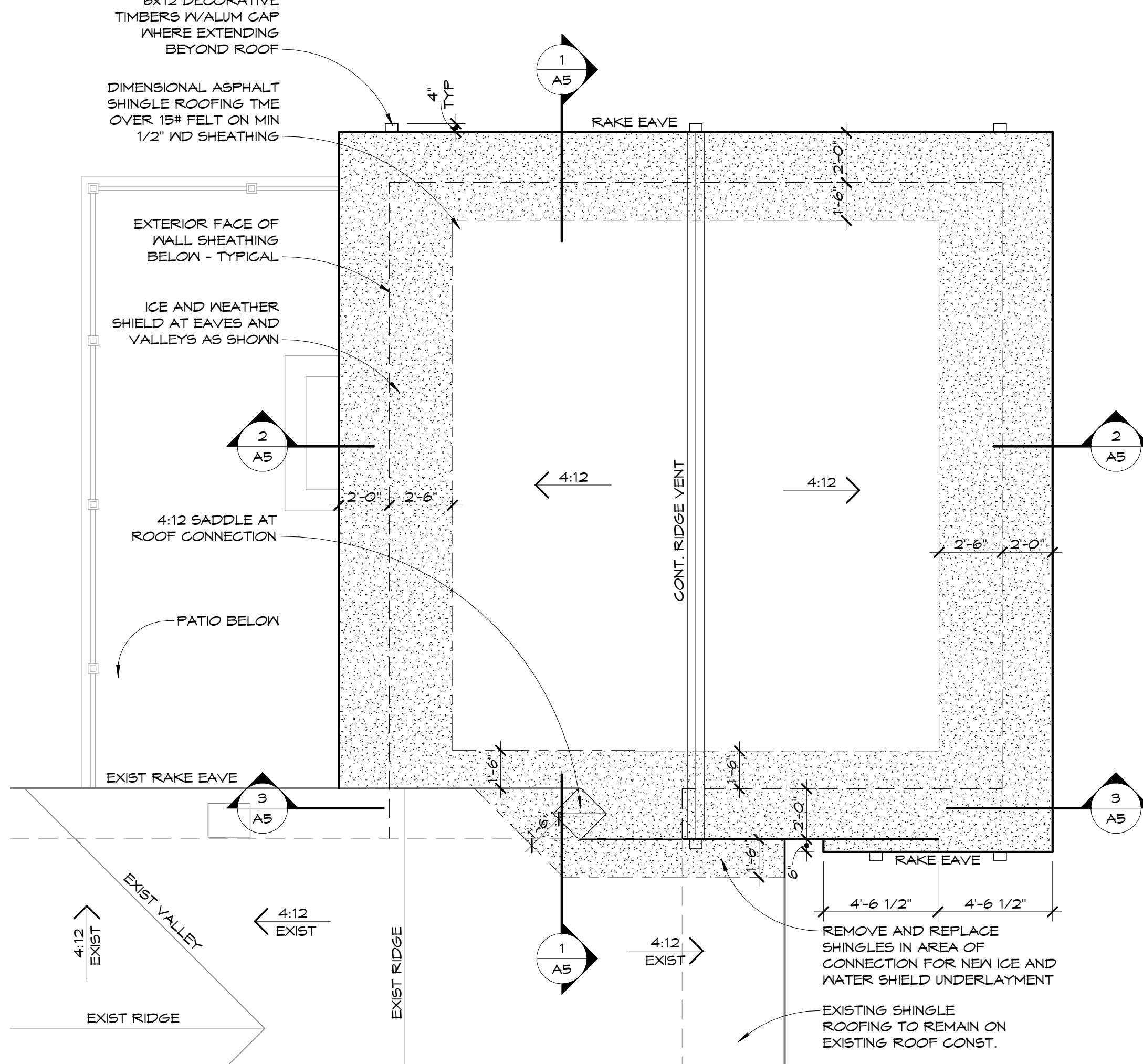
1. ALL ITEMS SHOWN ARE EXISTING TO REMAIN UNO.

END OF GENERAL NOTES





4 PARTIAL ROOF FRAMING
SCALE: 1/4" = 1'-0"



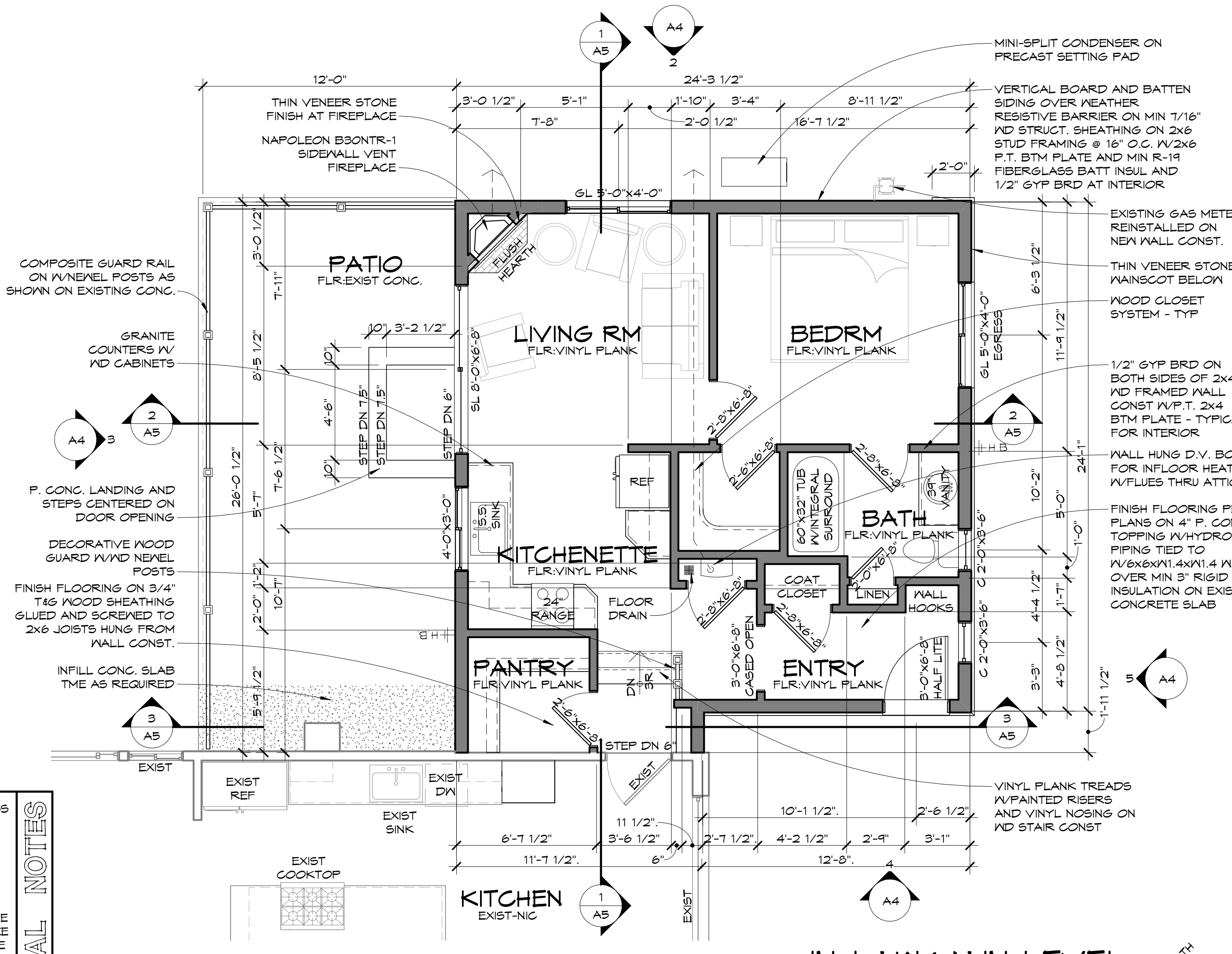
3 PARTIAL ROOF PLAN
SCALE: 1/4" = 1'-0"

- DOOR NOTES**
- INTERIOR DOORS SHALL BE 6-PANEL SOLID CODE MDF. ALL DOORS SHALL BE PAINT GRADE
 - EXTERIOR PATIO DOOR SHALL BE ALLIANCE TO MATCH WINDOWS UNO
 - ENTRY DOOR SHALL BE STAINED FIBERGLASS BY THERMATRU OR EQUAL
 - DOOR HEIGHTS SHALL BE AS NOTED ON PLANS
 - INTERIOR DOOR HARDWARE SHALL BE LEVER STYLE SELECTED BY OWNER
 - TEMPER ALL UNITS REQUIRED BY CODE-2015 MICHIGAN RESIDENTIAL CODE
 - INSTALL AND FLASH ALL DOORS PER MANUFACTURERS RECOMMENDATIONS

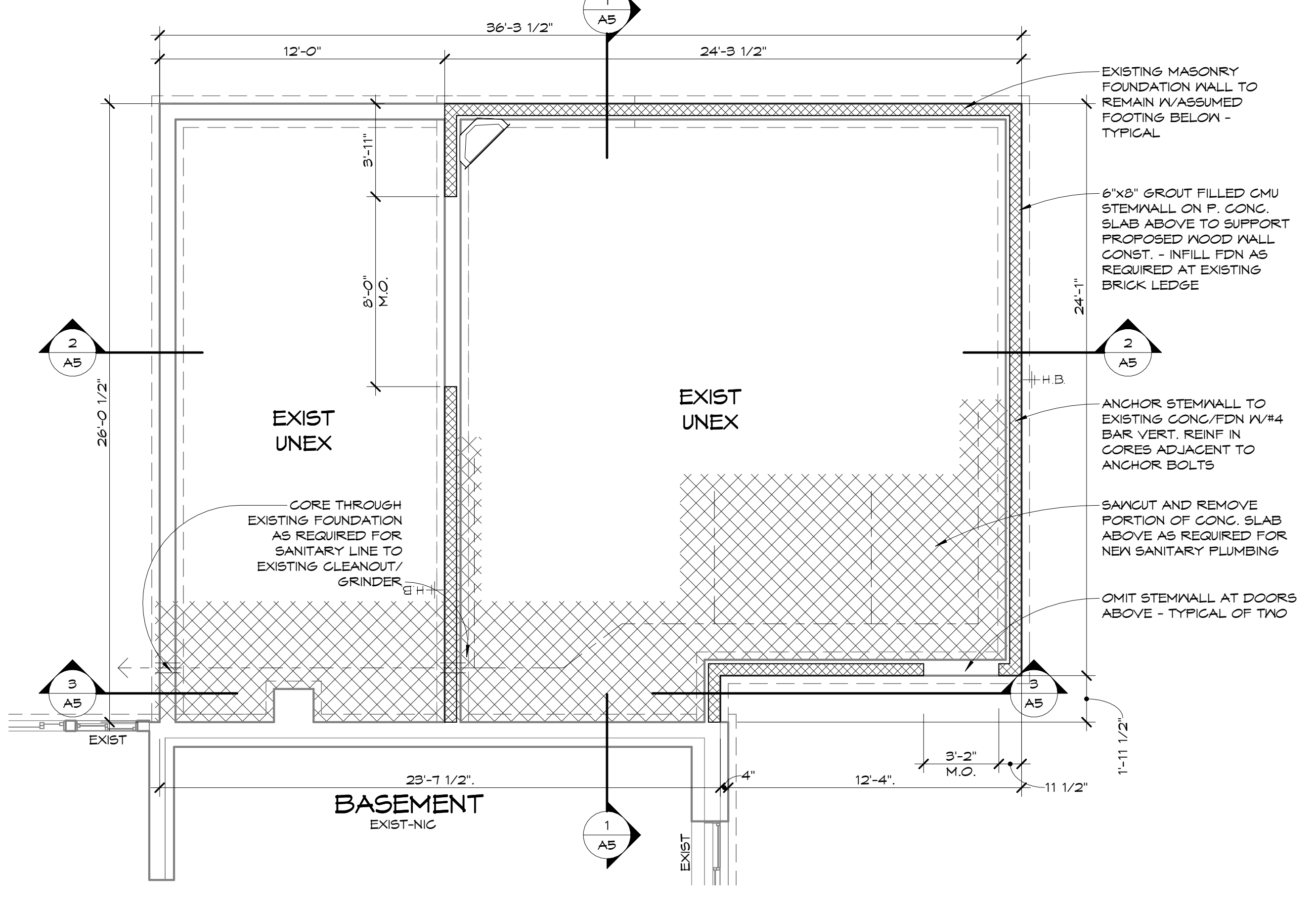
- INSUL SPEC**
- FENESTRATION MINUM U-FACTOR
WINDOWS - 0.30
FULL LITE DOORS - 0.32
DOORS W/LESS THAN 50% GLASS - 0.28
- WALL INSULATION
R-19 PERFORMANCE (FIBERGLASS)
- CEILING INSULATION
VENTED ROOFS
R-38 PERFORMANCE (BLOWN IN CELLULOSE)
- SLAB FLOORS
R-15 PERFORMANCE (RIGID INSULATION)

- STRUCTURAL NOTES**
- USE MIN (2) BEARING STUDS FOR BEAMS AND GIRDERS UNLESS NOTED OTHERWISE
 - USE HANGERS AT ALL FLUSH JOIST TO BEAM AND BEAM TO BEAM CONNECTIONS
 - PROVIDE HANGERS, ANCHORS, STRAPS, AND CONNECTIONS FOR CONTINUOUS LOAD PATH AND WIND UPLIFT RESISTANCE
 - PROVIDE TOP FLANGE HANGERS OR HIGH CAPACITY FACE MOUNT HANGERS AT FLUSH BEAM CONNECTIONS
 - CONNECTIONS NOT NOTED ON THE DRAWINGS SHALL BE MADE WITH PREFABRICATED STEEL HANGERS SIZED FOR MEMBER SIZE AND CARRIED LOAD AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (I.E. A DOUBLE 2X10 MUST HAVE A SIMPSON U-210-2 HANGER OR EQUAL, ETC.)
 - INSTALL SOLID BLOCKING DOWN TO FOUNDATION FROM ALL POINT LOADS INCLUDING SQUASH BLOCKS
 - HEADERS NOT LABELED SHALL BE (2) 2X12 MIN
 - CONTINUOUSLY SHEET EXTERIOR FACE OF WALL WITH MIN 1/16" APA RATED SHEATHING NAILED WITH 8D COMMON NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. AT PANEL INTERIOR
 - AT SPLICES IN DOUBLE TOP PLATE, LAP 24" MINIMUM AND NAIL WITH (8) 16D SINKERS IN LAPPED AREA, NAIL AT 24" O.C. FOR REMAINDER OF LENGTH. LAP CORNERS AND INTERSECTIONS AND FACE NAIL WITH (2) 10D BOX NAILS
 - AT EACH WALL OPENING, ADD 1/2 THE TOTAL NUMBER OF STUDS DISPLACED TO EACH SIDE OF THE OPENING (FULL HEIGHT) AND USE ONE TRIMMER STUD BELOW THE HEADER AT EACH END (UNO)
 - FINAL ENGINEERING AND LOCATIONS OF COLUMNS SUPPORTING LOADS FROM GIRDER TRUSSES SHALL BE DESIGNED BY ARCHITECT BASED UPON FINAL LOADING PREPARED BY TRUSS MANUFACTURER
 - POSTS AT CONCENTRATED LOADS SHALL EXTEND TO SOLID BEARING. REPEAT POSTS ON LOWER FLOORS BELOW UPPER POSTS (UNO). BLOCK SOLID BELOW ALL POSTS TO SOLID BEARING BELOW
 - NOTHING AND DRILLING OF STRUCTURAL MEMBERS IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT
 - PROVIDE BLOCKING (MIN 2X4) BETWEEN JOISTS @ 16" O.C. FOR WALLS ABOVE LOCATED PARALLEL TO JOISTS
 - PROVIDE JOIST BLOCKING (THE SAME SIZE AS THE MAIN JOIST FRAMING) AT NO MORE THAN 16" O.C. AT ALL FOUNDATION AND BEARING WALLS PARALLEL TO THE MAIN JOIST SPAN DIRECTION. THE BLOCKING SHALL BE INSTALLED IN THE FIRST TWO JOIST SPACES AND SECURED TO THE TOP WALL PLATE. ALL JOIST BLOCKING SHALL BE GLUED TO THE FLOOR DECK AND SECURED WITH A MINIMUM OF (4) 10D NAILS THROUGH THE FLOOR DECK INTO EACH BLOCKING PIECE

- WINDOW NOTES**
- WINDOWS SHALL BE ALLIANCE OR EQUAL
 - WHITE VINYL (COLOR TO BE CONFIRMED BY OWNER)
 - GLAZING SHALL BE LOW E W/ARGON GAS
 - PROVIDE FIBERGLASS INSECT SCREENS FOR ALL OPERABLE UNITS
 - SEE EXTERIOR ELEVATIONS FOR LOCATIONS OF OPERABLE / FIXED UNITS & SWING DIRECTION
 - HARDWARE TO BE SELECTED BY OWNER
 - PROVIDE JAMB EXTENSIONS ON ALL WINDOWS UNO
 - WINDOWS CODES ARE AS FOLLOWS: A-ANNING, C-CASEMENTS, DH-DOUBLE HUNG, F-FIXED, GL-GLIDING, SC-FIXED SCREEN PANEL, SL-SLIDING PATIO DOOR TR-TRANSOM (WIDTH x HEIGHT)
 - WINDOW DIMENSIONS SHOWN ARE NOMINAL DIMENSIONS - COORDINATE FINAL WINDOW SIZES W/IN 3' OF SHOWN DIMENSIONS
 - TEMPER ALL UNITS REQUIRED BY CODE-2015 MICHIGAN RESIDENTIAL CODE
 - PROVIDE AT LEAST ONE EGRESS WINDOW IN EACH SLEEPING ROOM IN ACCORDANCE W/ SECTION R310 OF THE 2015 MRC
 - INSTALL AND FLASH ALL WINDOWS PER MANUFACTURERS RECOMMENDATIONS
 - ALL FINAL SELECTIONS OF WINDOW AND HARDWARE SPECS TO BE VERIFIED W/OWNER PRIOR TO ORDERING



2 IN-LAW MAIN LEVEL
SCALE: 1/4" = 1'-0"



1 IN-LAW FDN PLAN
SCALE: 1/4" = 1'-0"

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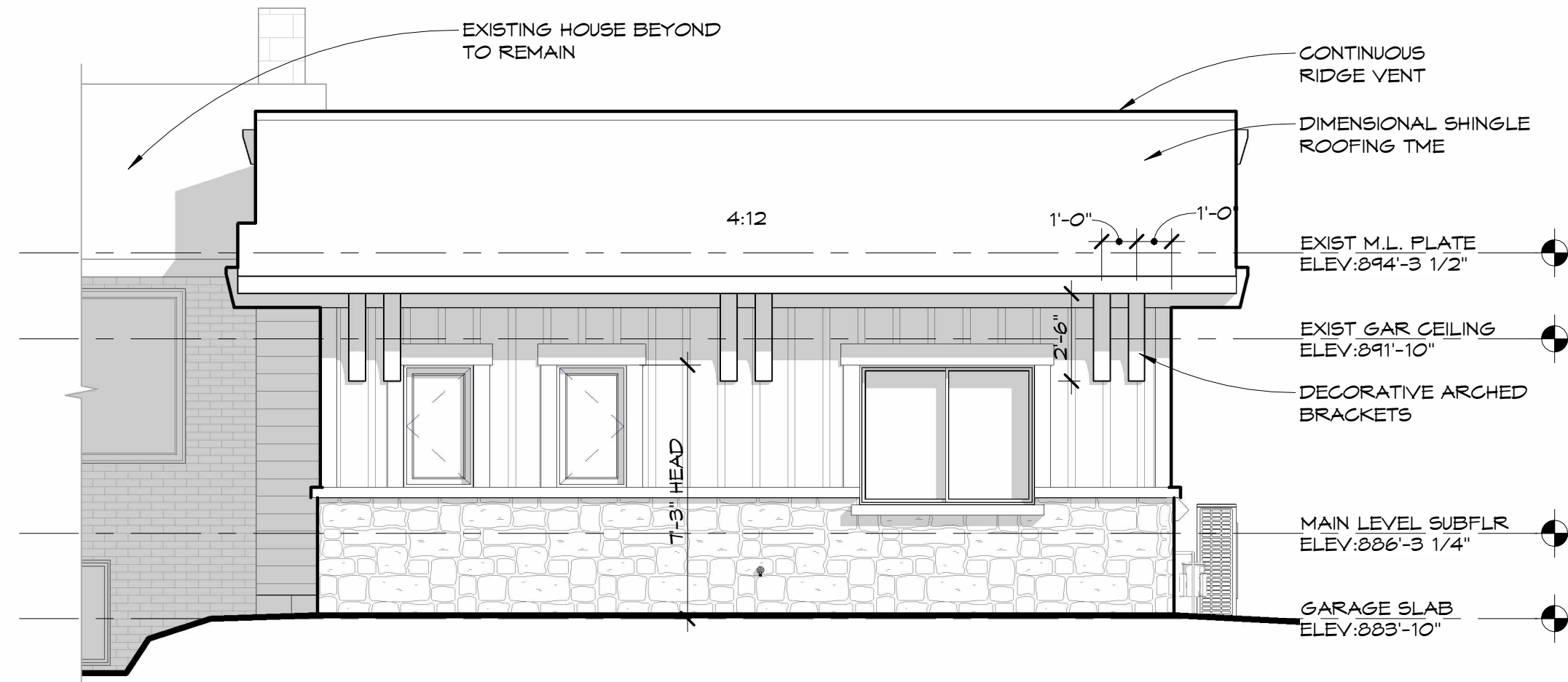
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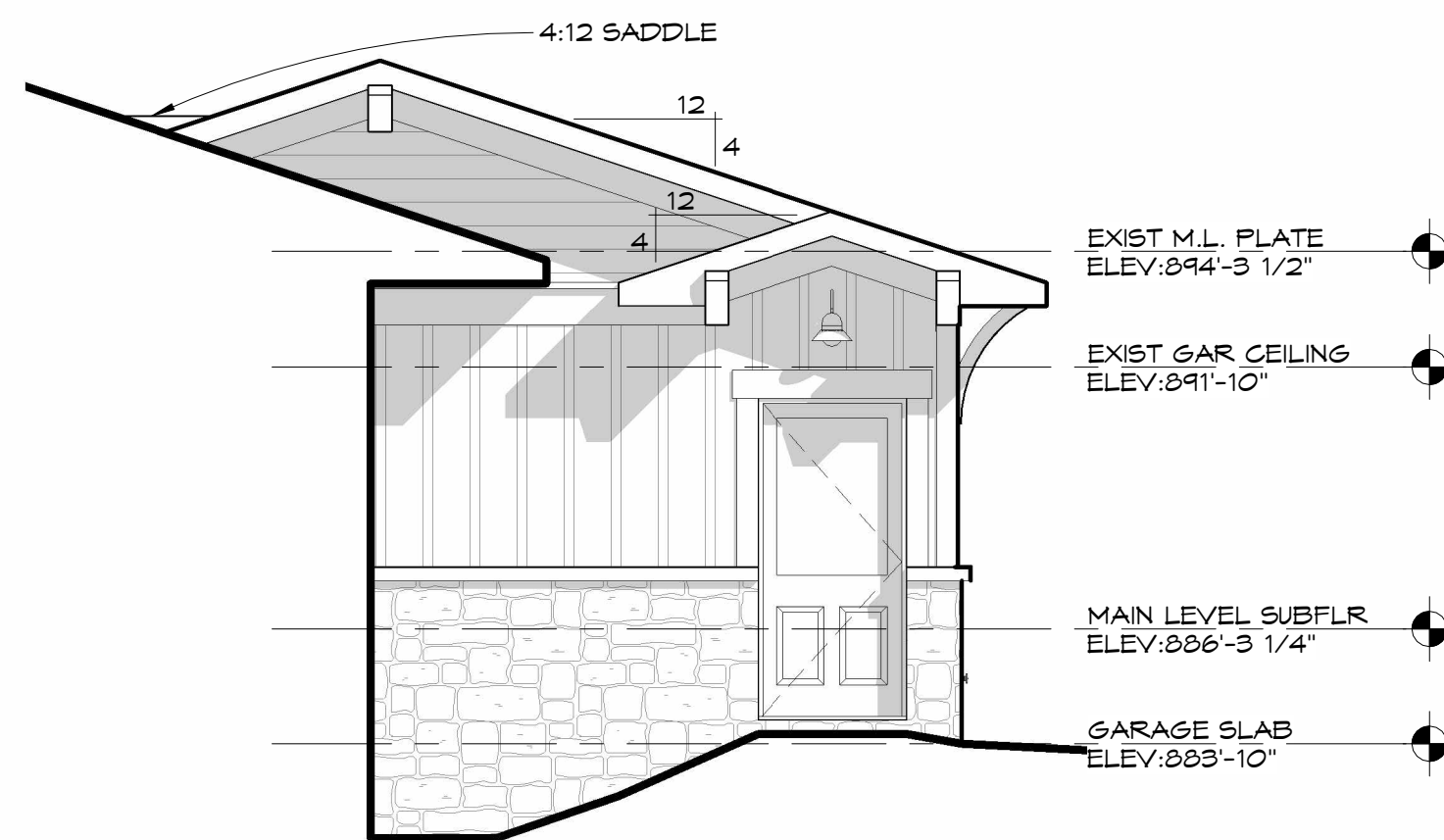
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PROPOSED PLANS

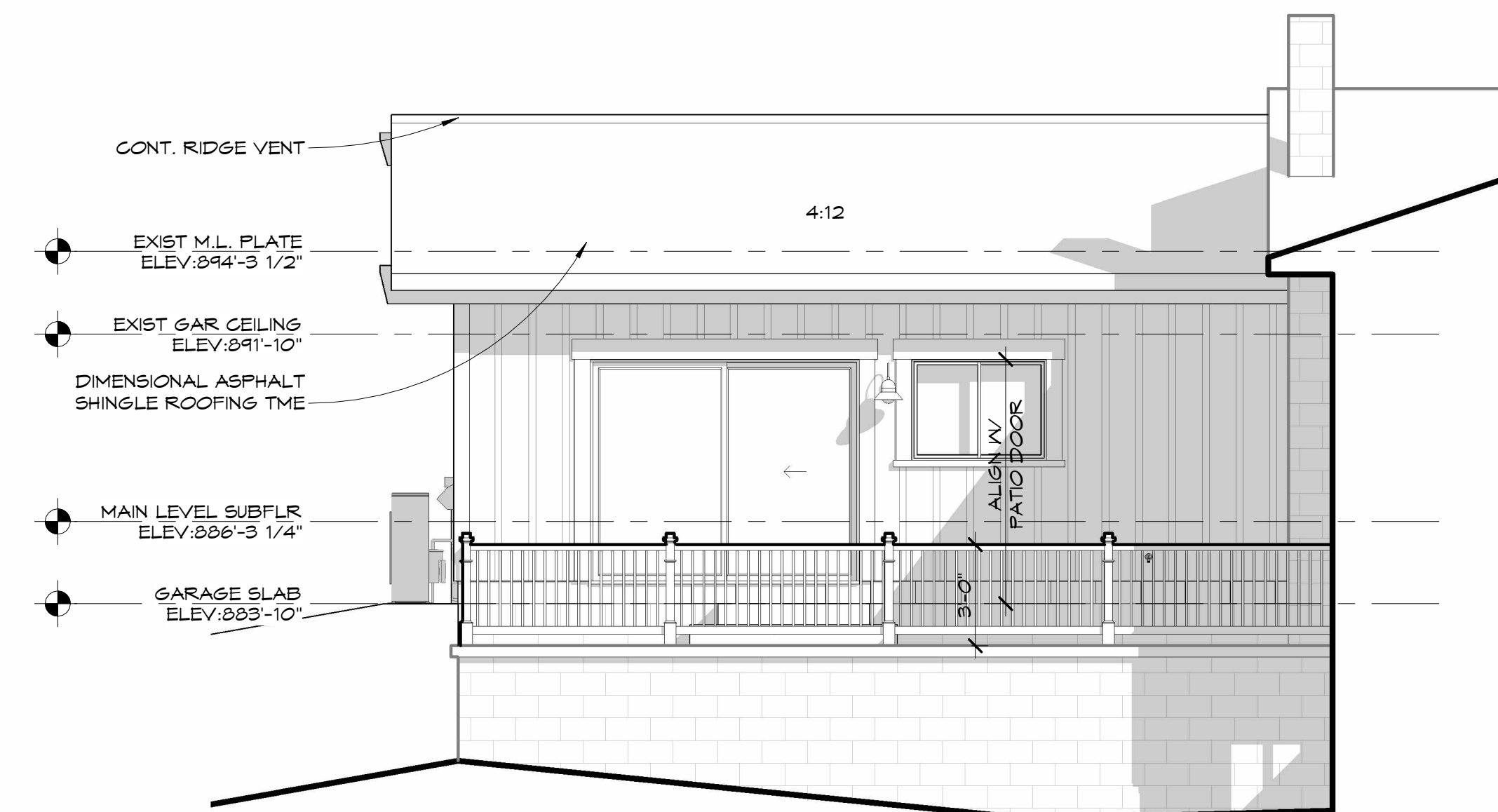
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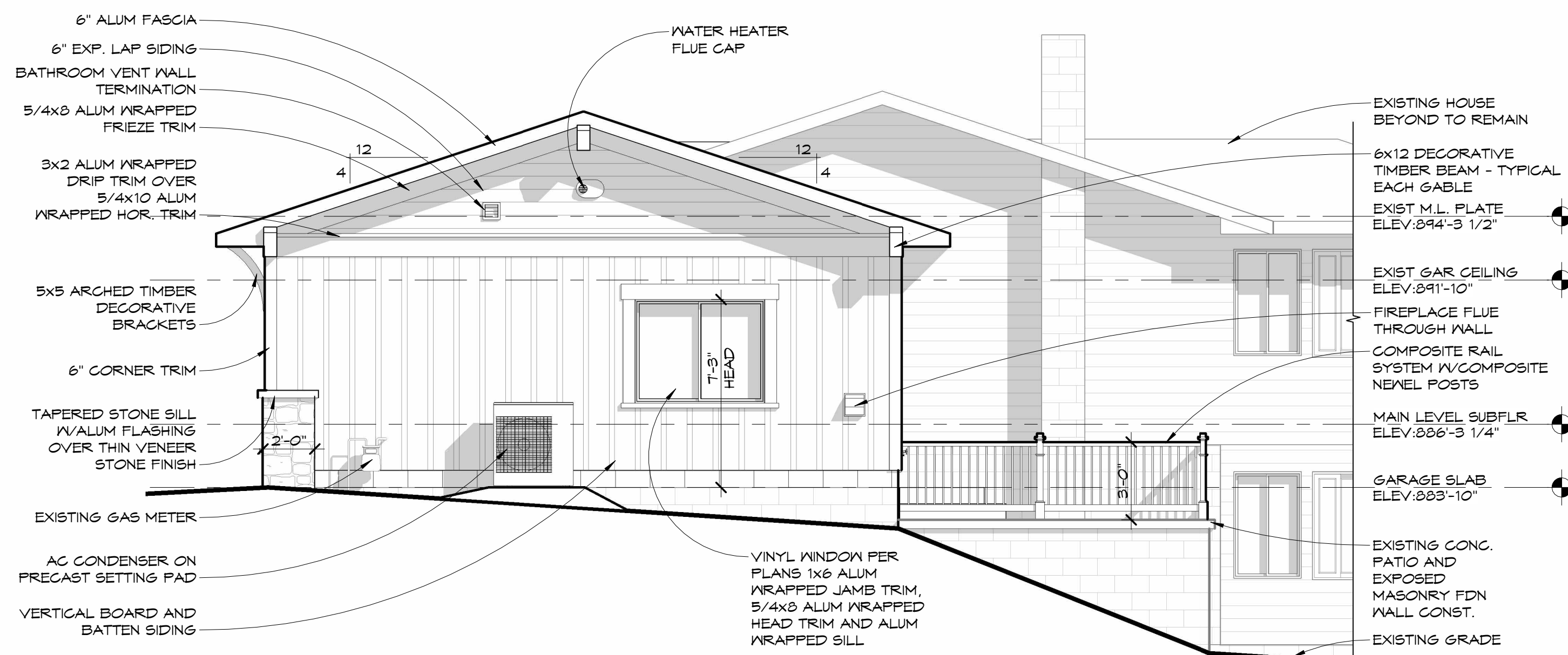
5 DRIVE SIDE ELEVATION
SCALE: 1/4" = 1'-0"



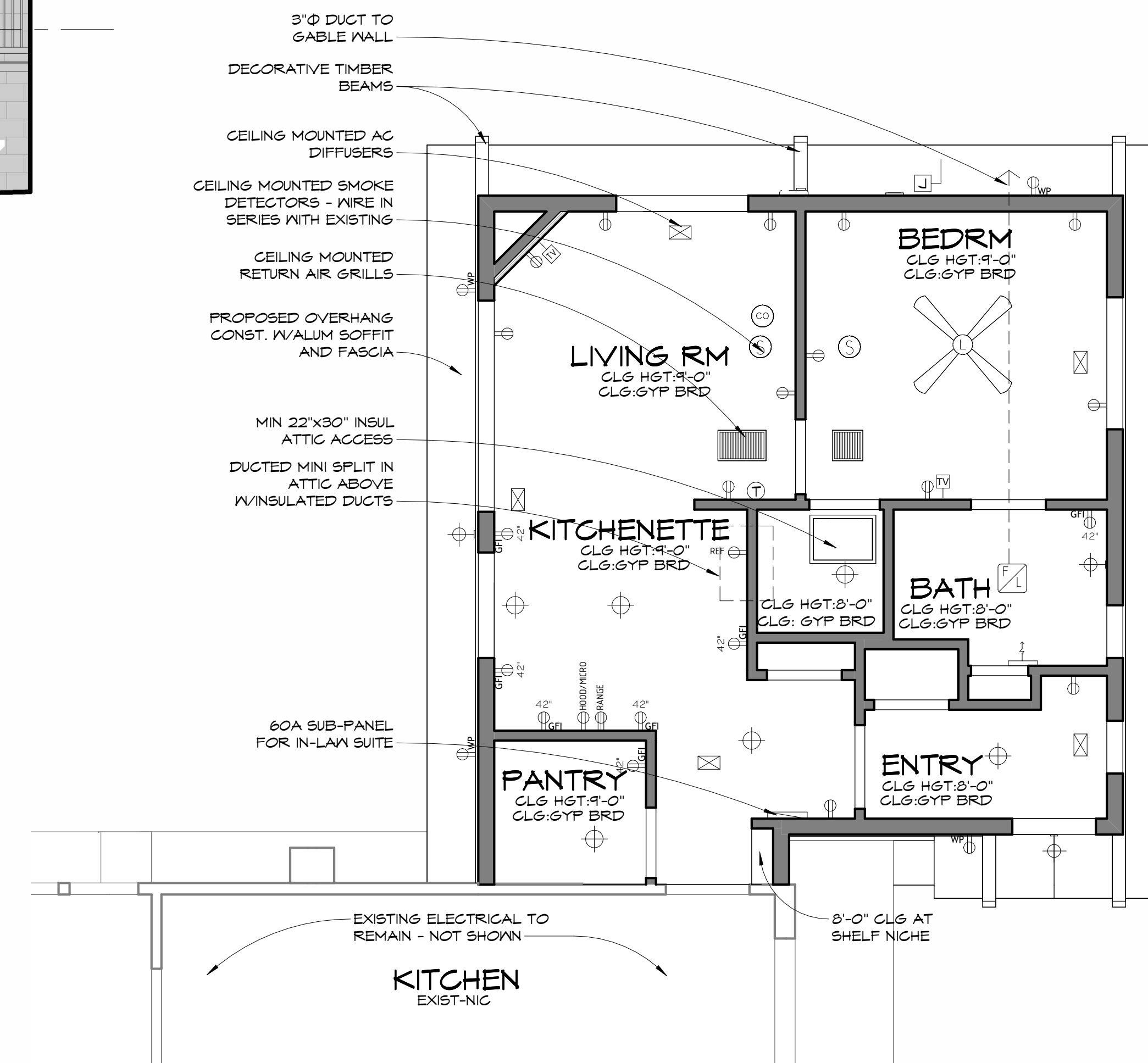
4 ENTRY SIDE ELEVATION
SCALE: 1/4" = 1'-0"



3 RIVER SIDE ELEVATION
SCALE: 1/4" = 1'-0"



2 IN-LAW END ELEVATION
SCALE: 1/4" = 1'-0"



1 IN-LAW CEILING/ELECTRICAL
SCALE: 1/4" = 1'-0"

PROVIDE SMOKE DETECTORS (WIRED IN SERIES) IN EXISTING BEDROOM AND DIRECTLY ADJACENT TO EXISTING BEDROOMS

GENERAL NOTES:

- COVER WITH SHEET METAL ALL SHEATHING HOLES OVER 1" IN DIAMETER, CRACKS OVER 1/2" IN WIDTH, LOOSE KNOTS, AND EXCESSIVELY RESINOUS AREAS.
- INSTALL METAL DRIP EDGE TIGHT TO FASCIA BOARDS AND LAP JOINTS MIN 2". NAIL DRIP EDGE AT TOP OF FLANGE.
- FLASHING SHALL BE APPROVED CORROSION RESISTIVE FLASHING INSTALLED AT ALL ROOF AND WALL INTERSECTIONS AS WELL AS THE LOCATIONS SPECIFIED IN THE 2015 MRC.
- PAINT ALL ROOF PENETRATIONS W/COLOR TO MATCH ADJACENT ROOFING
- 15# AND 30# ROOFING UNDER-LAYMENT (FELT) SHALL MEET OF EXCEED THE REQUIREMENTS OF ASTM D4869 TYPE 1.
- PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SECTION R806 OF THE 2015 MRC

ICE AND WEATHER SHIELD:

- APPLY ICE AND WEATHER GUARD ON ALL EAVES TO A DISTANCE AT LEAST 24" HORIZONTALLY BEYOND THE INTERIOR FACE OF THE EXTERIOR WALL. INSTALL MINIMUM 36" WIDE AT ALL VALLEYS. AT WALLS AND ROOF PENETRATIONS APPLY ICE AND WEATHER SHIELD A MIN 12" ON TO THE ROOF IN ALL DIRECTIONS AND 6" UP WALL WHERE WALL WHERE POSSIBLE. LAP ALL ENDS MIN 6"
- ICE AND WEATHER SHIELD SHALL BE A GOLF APPLIED, SELF-ADHERING MEMBRANE COMPOSED OF A HIGH DENSITY, CROSS LAMINATED POLYETHYLENE FILM COATING ON ONE LAYER OF RUBBERIZED ASPHALT ADHESIVE. GLACIER GUARD BY ECOSTAR

ASPHALT SHINGLES:

- FINISH ROOFING SHALL BE DIMENSIONAL SHINGLE ON 15# FELT W/ ICE & WATER SHIELD AS REQ'D BY CODE
- HIP AND RIDGE SHINGLES SHALL BE PROVIDED BY SAME MANUFACTURER AND COLOR/FINISH TO MATCH
- INSTALL SHINGLES AND FLASHING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTION AND "THE NRCA ROOFING AND WATERPROOFING MANUAL"
- VALLEYS SHALL BE MOVEN OR CLOSED CUT STYLE
- RIDGE VENT SHALL BE SINGLE VENT II OR EQUAL INSTALLED TO RAKE EAVES

SOFFITS:

- ALL SOFFITS SHALL BE WHITE ALUMINUM
 - NON VENTED AT RAKE EAVES AND LOW SLOPED EAVES
 - VENTED AT ALL OTHER GABLE ROOF EAVES

GUTTERS:

- GUTTERS SHALL BE CONTINUOUS PREFORMED K-STLYE ALUMINUM W/MATCHING BRACKETS AND DOWNSPOUTS.
- GUTTERS AND DOWNSPOUTS NOT SHOWN ON DRAWINGS FOR CLARITY.
- COORDINATE DOWNSPOUT LOCATIONS IN FIELD WITH ARCHITECT

ROOFING NOTES

| | |
|-----------------|---|
| ⊕ | 240V DEDICATED CIRCUIT |
| ⊕ | 120V DUPLEX OUTLET |
| ⊕ _{WP} | WEATHERPROOF GROUND FAULT CIRCUIT INT. 120V DUPLEX OUTLET |
| ⊕ _{GF} | GROUND FAULT CIRCUIT INT. 120V DUPLEX OUTLET |
| ⊕ | 120V FOURPLEX OUTLET |
| ○ | 6" RECESSED CAN LIGHT |
| ○ _c | 6" RECESSED CAN LIGHT (RATED FOR NET LOCATION) |
| ⊕ | 6" DIRECTIONAL RECESSED CAN LIGHT |
| ⊕ | CEILING MOUNTED LIGHT FIXTURE |
| ⊕ | CEILING HUNG PENDANT FIXTURE |
| ⊕ | CEILING HUNG CHANDELIER |
| ⊕ | WALL HUNG LIGHT FIXTURE |
| ⊕ | FLOOR OUTLET W/COVER PLATE 120V DUPLEX |
| ⊕ | 50 CFM EXHAUST FAN W/LIGHT (PROVIDE TIMER ON EXHAUST FAN SWITCHING) |
| ⊕ | 50 CFM EXHAUST FAN (PROVIDE TIMER ON EXHAUST FAN SWITCHING) |
| ⊕ | COAXIAL CABLE OUTLET |
| ⊕ | DATA OUTLET - CAT 6 |
| ⊕ | CARBON MONOXIDE DETECTOR |
| ⊕ | SMOKE DETECTOR-WIRE IN SERIES |
| ⊕ | CEILING FAN ("L" INDICATES W/LIGHT) |
| ⊕ | CEILING MOUNTED FLUORESCENT CLOUD LIGHT 1x4' |
| ⊕ | UNDER CABINET/TRAY LIGHTING |
| ⊕ | WALL MTD LINEAR CLOSET LIGHT |
| ⊕ | WALL MTD THERMOSTAT @ 54" AFF |
| ⊕ | JUNCTION BOX W/DISCONNECT |

ELECTRICAL LEGEND

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Owner:

KATE AND JEFF
BOROUGH

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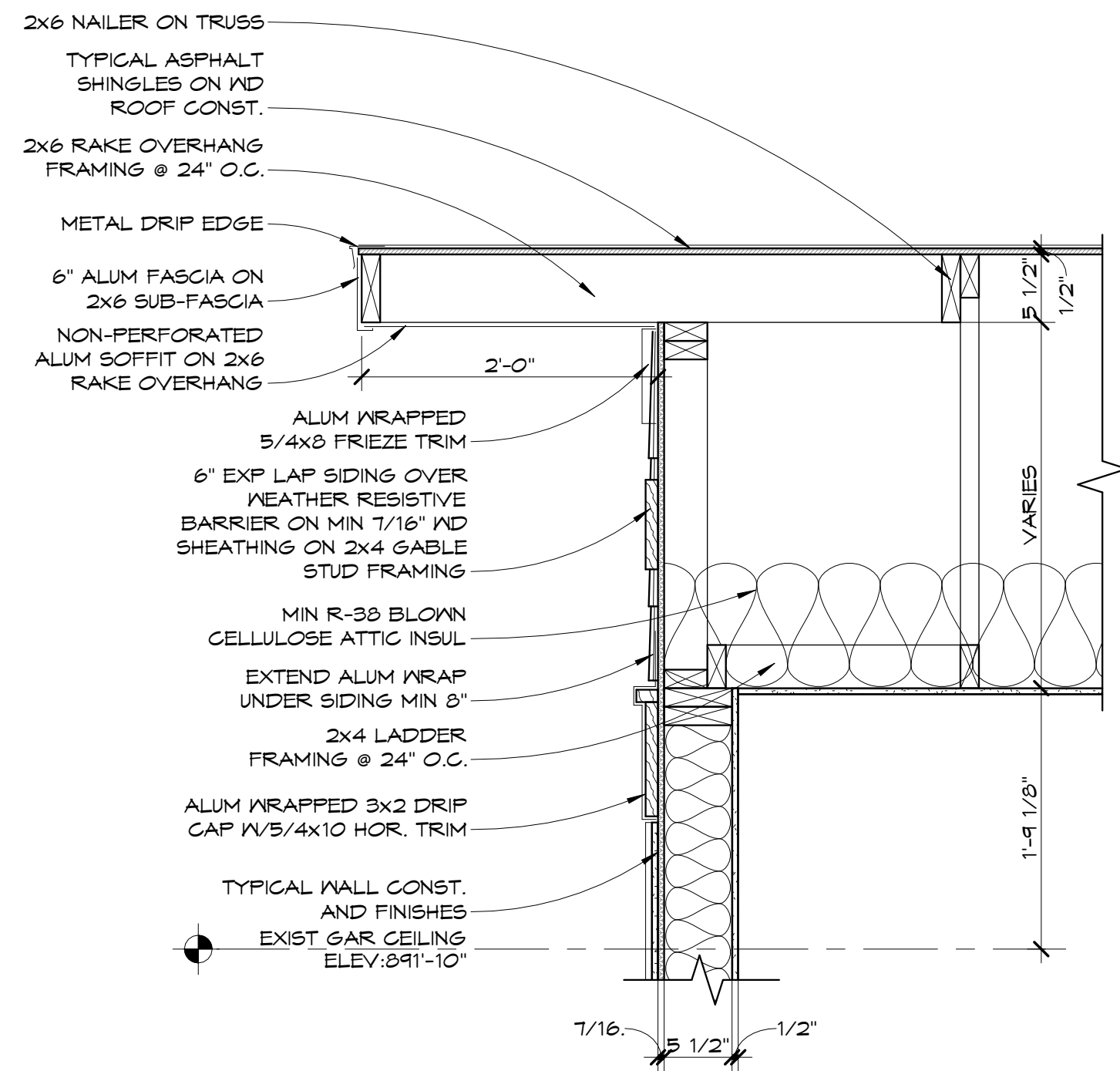
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CEILING PLAN AND
EXTERIOR
ELEVATIONS

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5 RAKE EAVE
SCALE: 1" = 1'-0"



Compliance Certificate

Project Information

Project Title: Borough Alteration
Energy Code: 2009 IECC
Location: Whitmore Lake, Michigan
Construction Type: Single Family
Project Type: Alteration
Project Sub Type: None
Climate Zone: 5a (6379 HDD)
Project No.: 1795576
All Electric: false
Is Renewable: false
Has Battery: false
Has Charger: false
Has Heat Pump: false

Owner/Agent: Kate and Jeff Borough
 4467 Cornwell Lane
 Whitmore Lake, Michigan

Designer/Contractor: McCotter Architecture and Design, PLLC
 2060 Ore Creek Lane
 Brighton, Michigan 48114
 734.216.7768

Envelope Assemblies

| Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Prop. U-Factor/F-Factor | Req. U-Factor/F-Factor | Prop. UA | Req. UA |
|--|-------------------------|----------------|---------------|-------------------------|------------------------|----------|---------|
| Ceiling: Flat Ceiling or Scissor Truss | 563 | 0.0 | 38.0 | 0.025 | 0.030 | 14 | 17 |
| Floor: Slab-On-Grade (Heated) Insulation depth: 4.00' Insulation position: No Insulation | 87 | 15.0 | 0.655 | 0.767 | 0 | 0 | 0 |
| Exterior Walls: Wood Frame, 16" o.c. | 979 | 19.0 | 0.0 | 0.060 | 0.057 | 52 | 49 |
| Entry Window: Vinyl Frame | 7 | | | 0.300 | 0.350 | 2 | 2 |
| Bedroom Window: Vinyl Frame | 20 | | | 0.300 | 0.350 | 6 | 7 |
| Bathroom Window: Vinyl Frame | 7 | | | 0.300 | 0.350 | 2 | 2 |
| Living Room Window: Vinyl Frame | 20 | | | 0.300 | 0.350 | 6 | 7 |
| Kitchen Window: Vinyl Frame | 12 | | | 0.300 | 0.350 | 4 | 4 |
| Patio Door: Glass Door (over 50% glazing) | 53 | | | 0.320 | 0.350 | 17 | 19 |
| Masonry Stemwall: Solid Concrete or Masonry Insulation position: No Insulation | 15 | | | 0.333 | 0.082 | 5 | 1 |

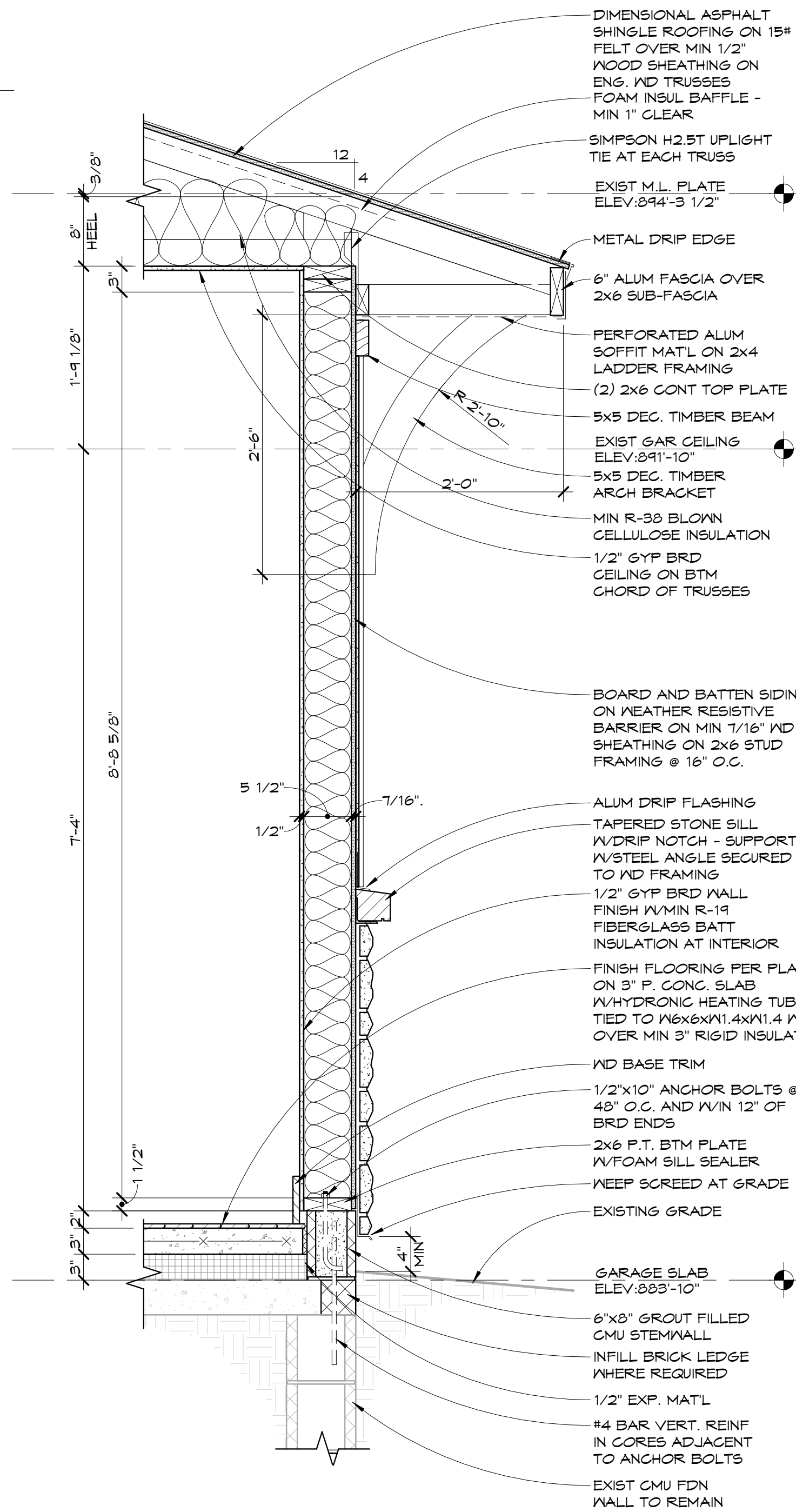
Compliance: Passes
 Compliance: 0.0% Better Than Code
 Max UA: 108
 Your UA: 108

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.
 Slab-on-grade tradeoffs are no longer considered in the UA or performance compliance path in REScheck. Each slab-on-grade assembly in the specified climate zone must meet the minimum energy code insulation R-value and depth requirements.

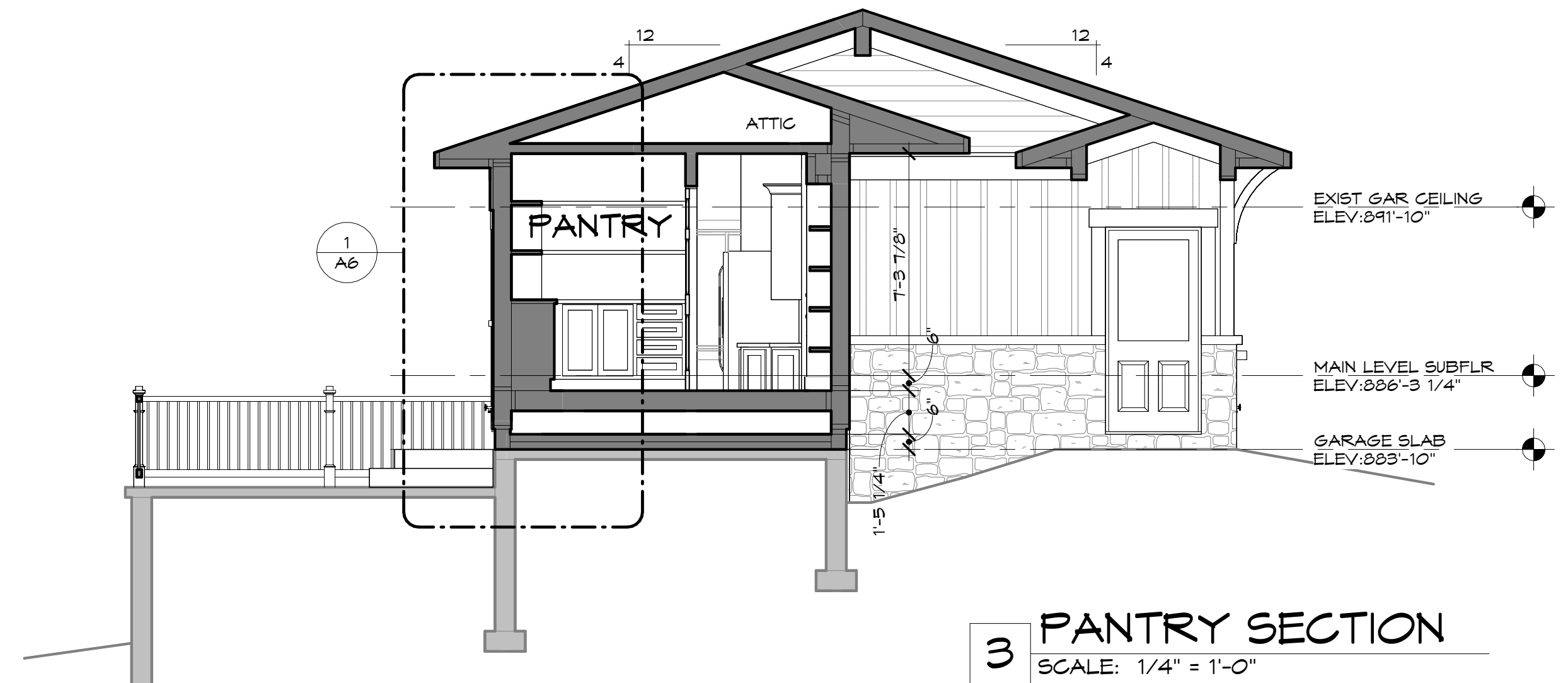
Compliance Statement

The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2009 IECC requirements in REScheck-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

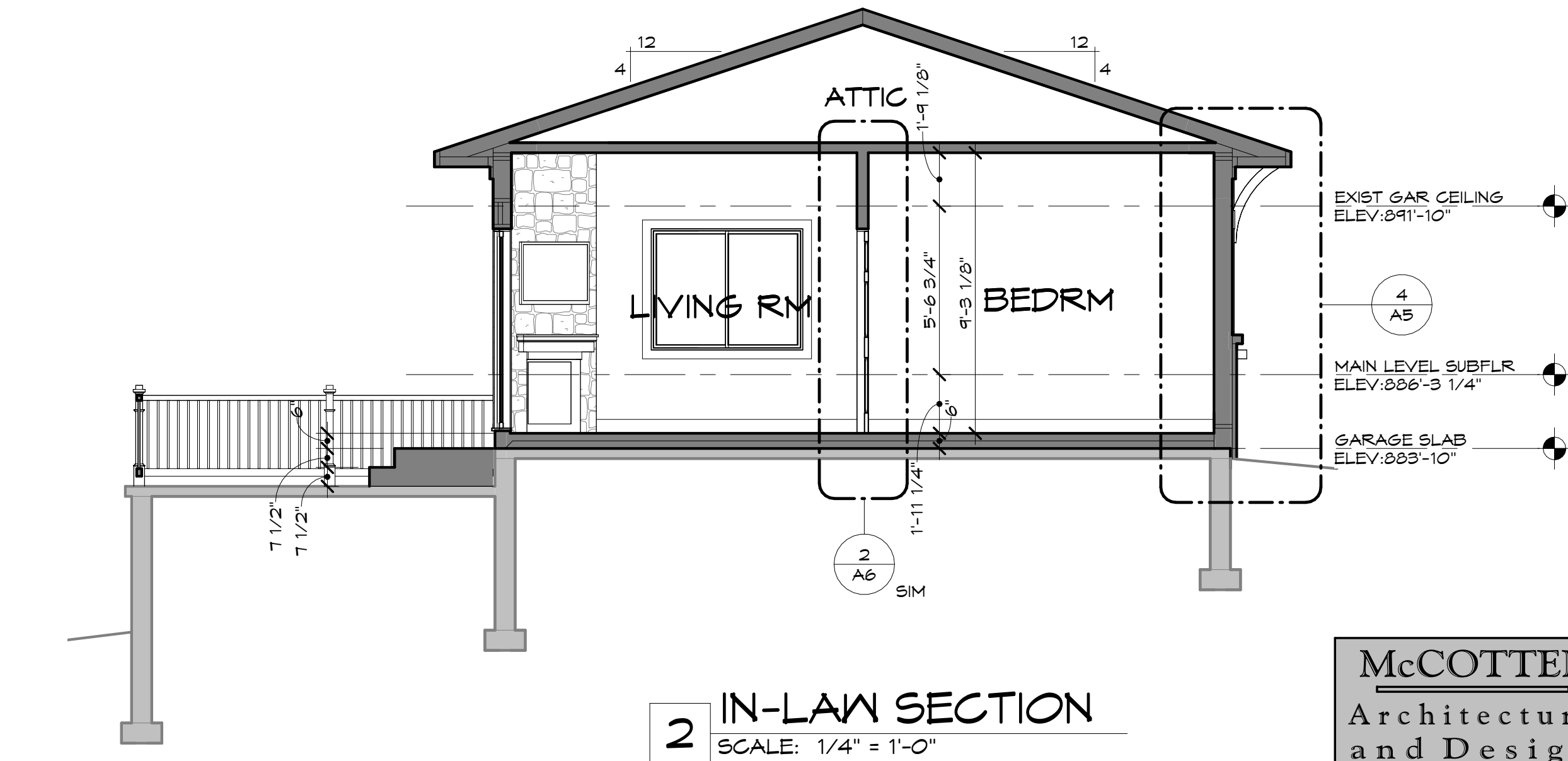
Timothy S. McCotter - Architect
 Name - Title
 Signature
 Date



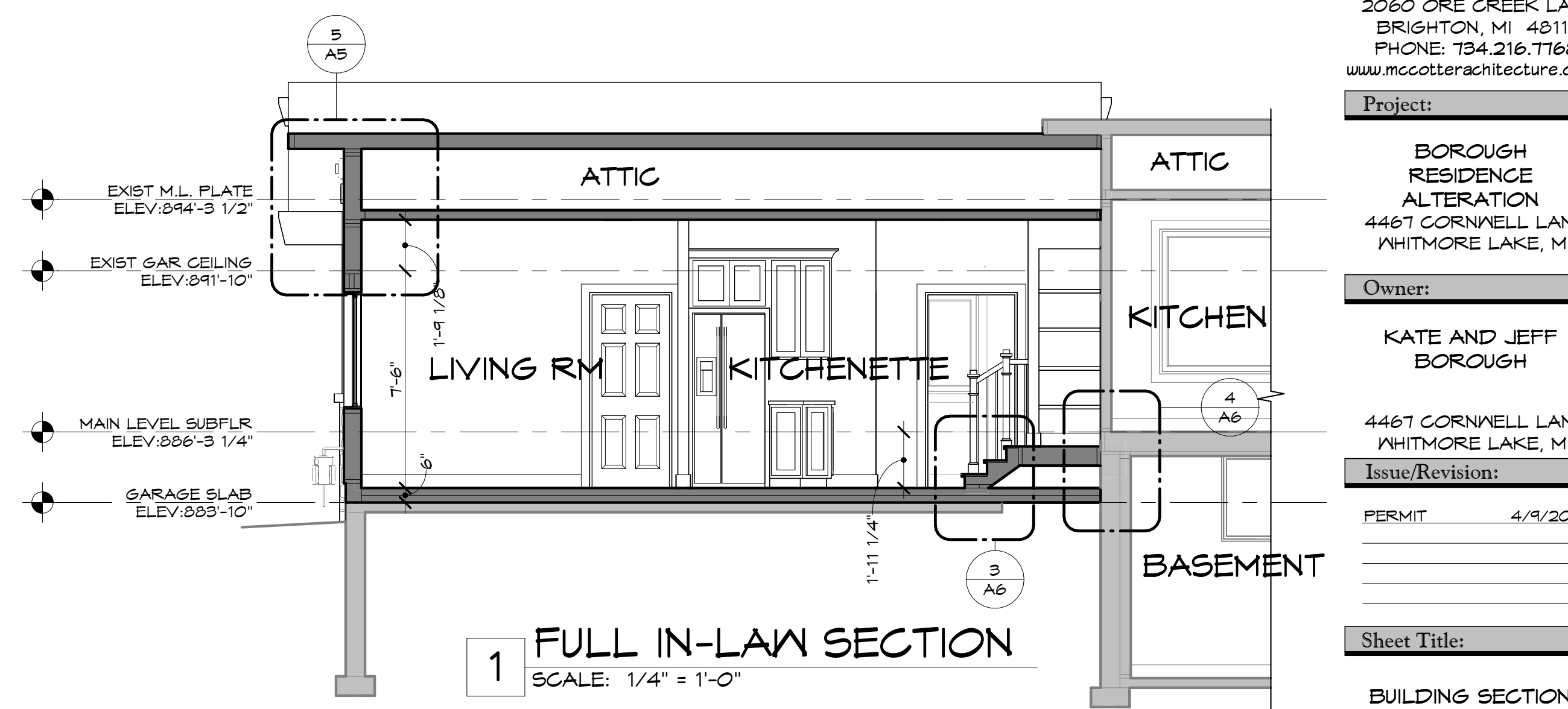
4 TYPICAL WALL
SCALE: 1" = 1'-0"



3 PANTRY SECTION
SCALE: 1/4" = 1'-0"



2 IN-LAW SECTION
SCALE: 1/4" = 1'-0"



1 FULL IN-LAW SECTION
SCALE: 1/4" = 1'-0"

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Architecture and Design

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 BRIGHTON, MI 48114
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KATE AND JEFF BOROUGH

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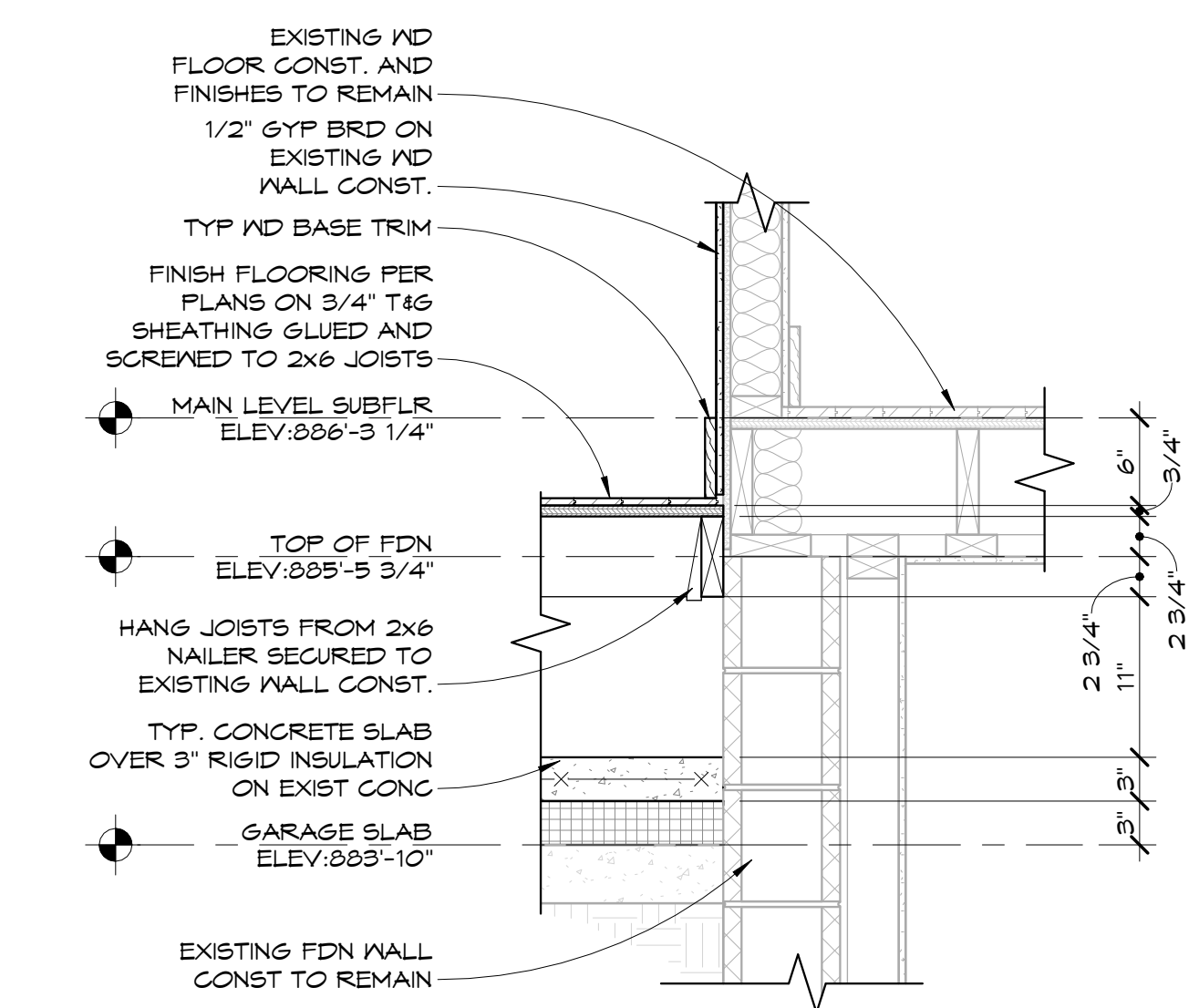
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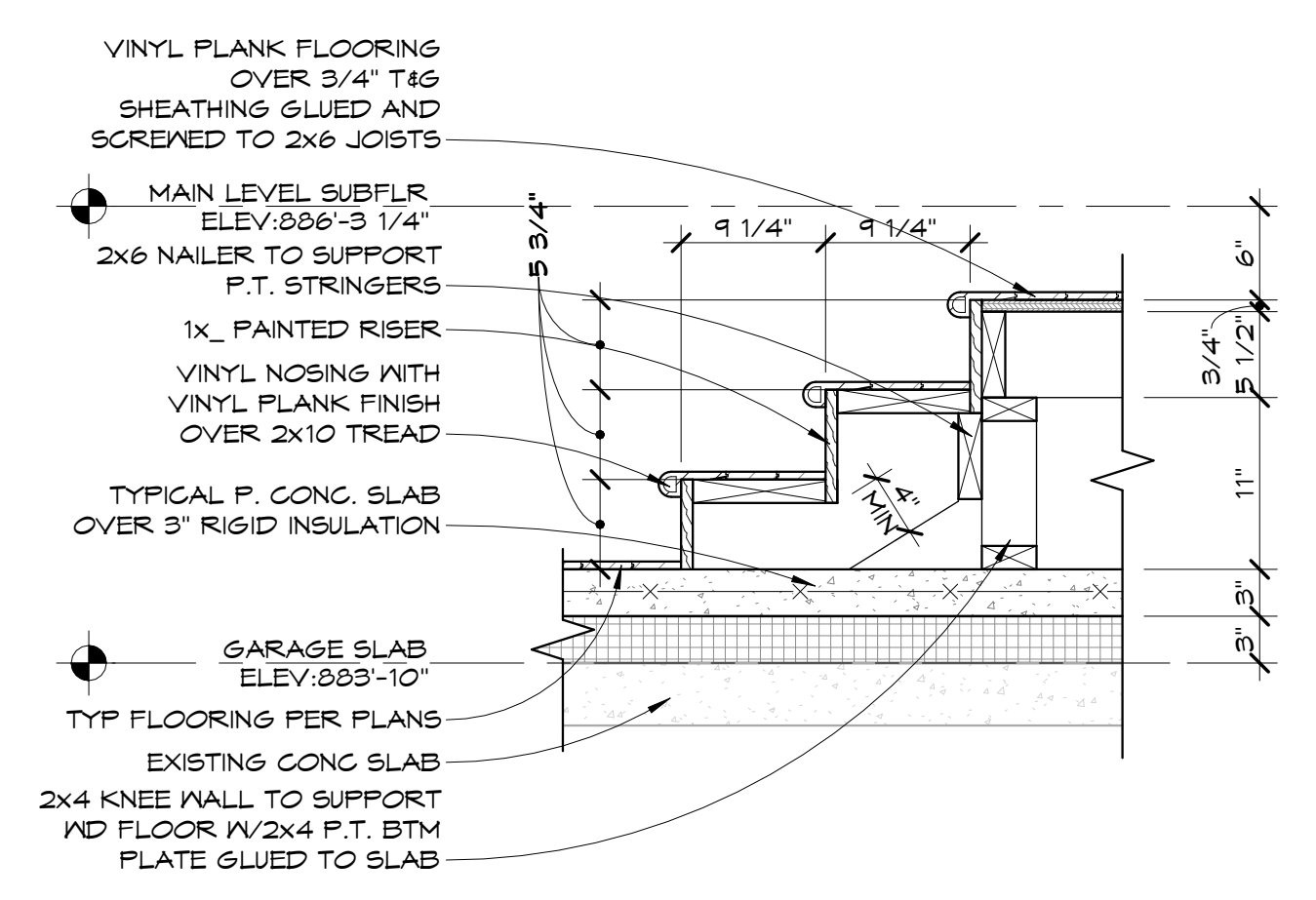
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BUILDING SECTIONS

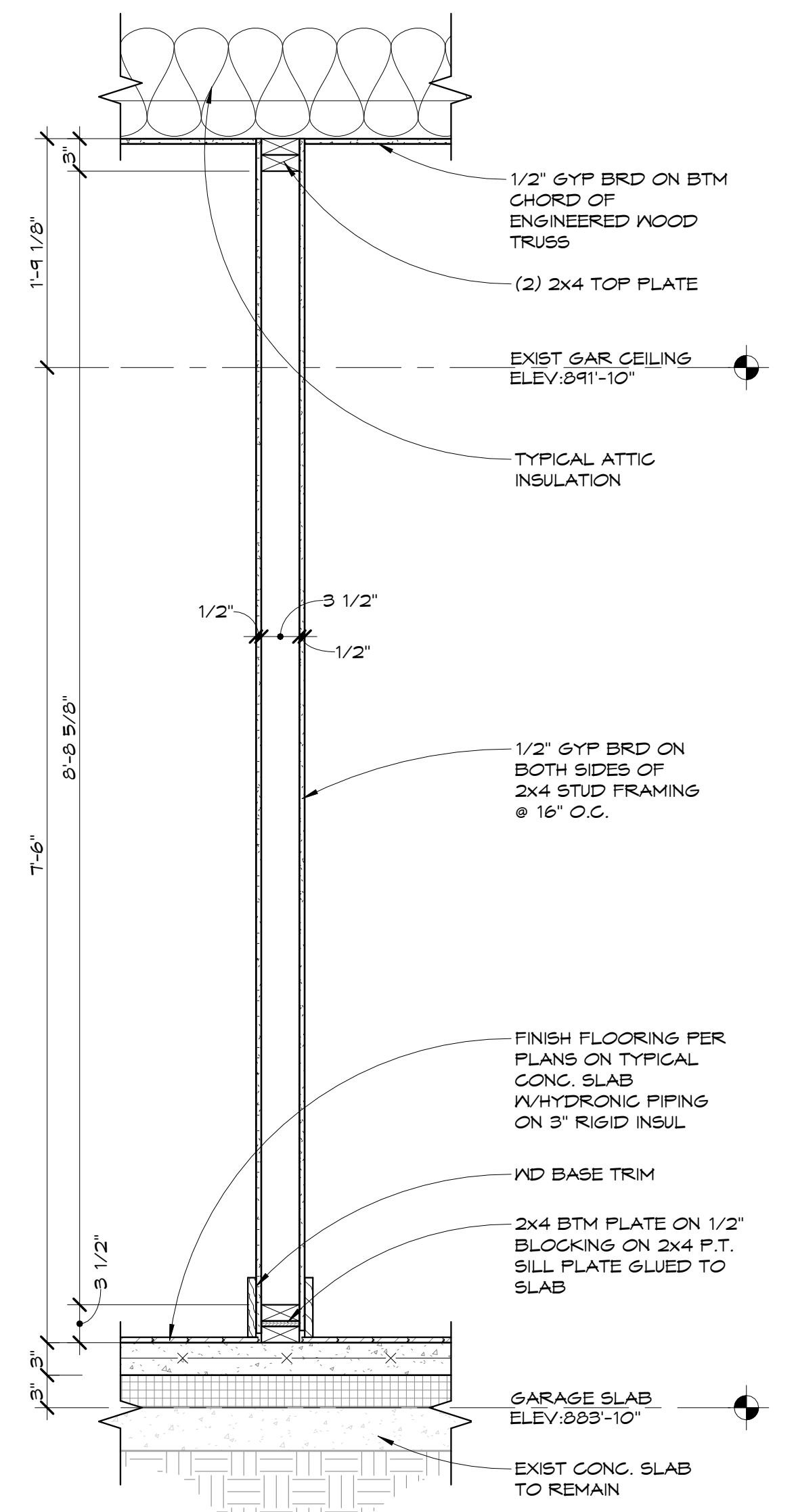
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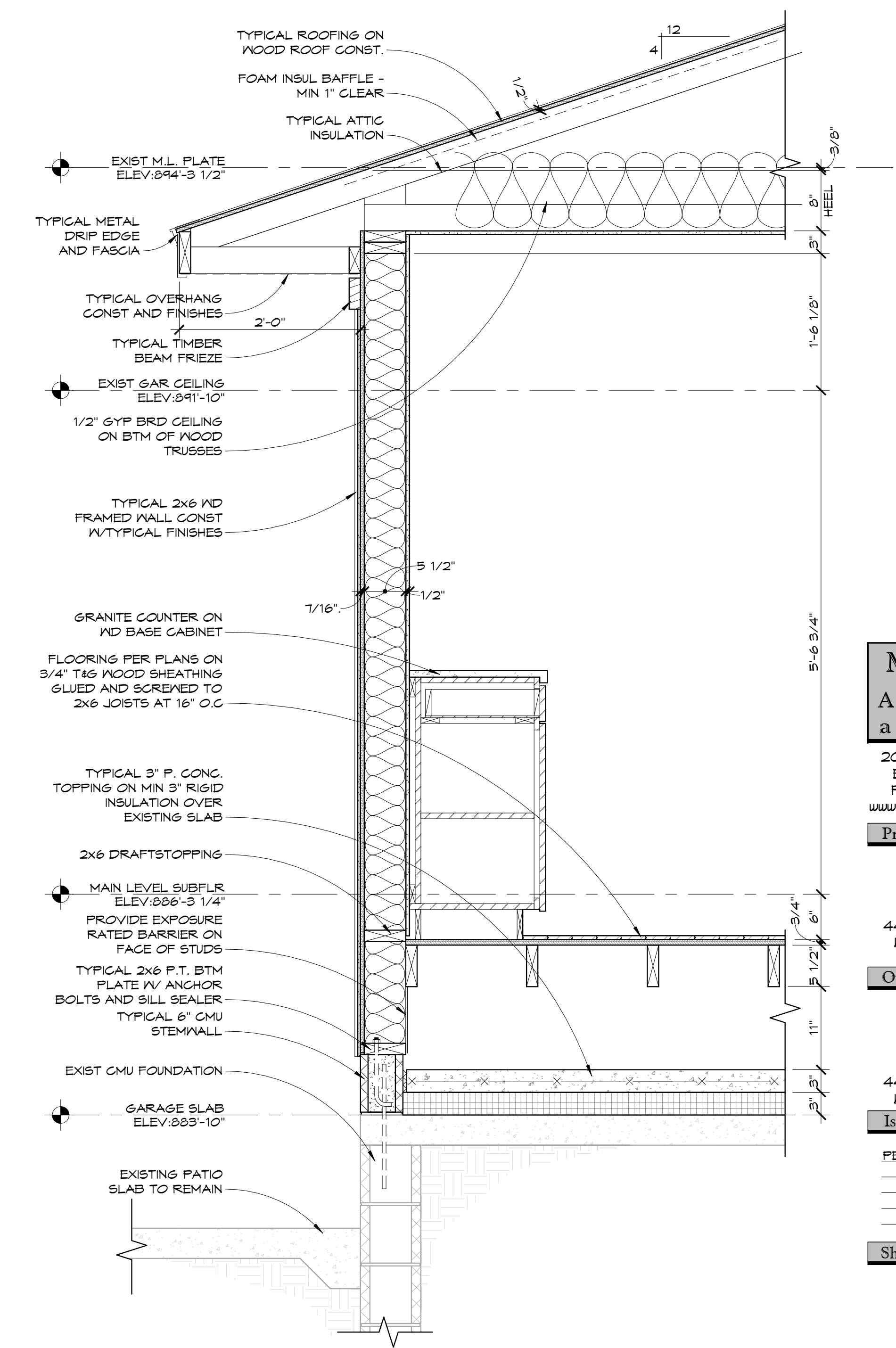
4 EXISTING WALL
SCALE: 1" = 1'-0"



3 STAIRS
SCALE: 1" = 1'-0"



2 INTERIOR WALL
SCALE: 1" = 1'-0"



1 PANTRY WALL
SCALE: 1" = 1'-0"

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CONSTRUCTION
DETAILS

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