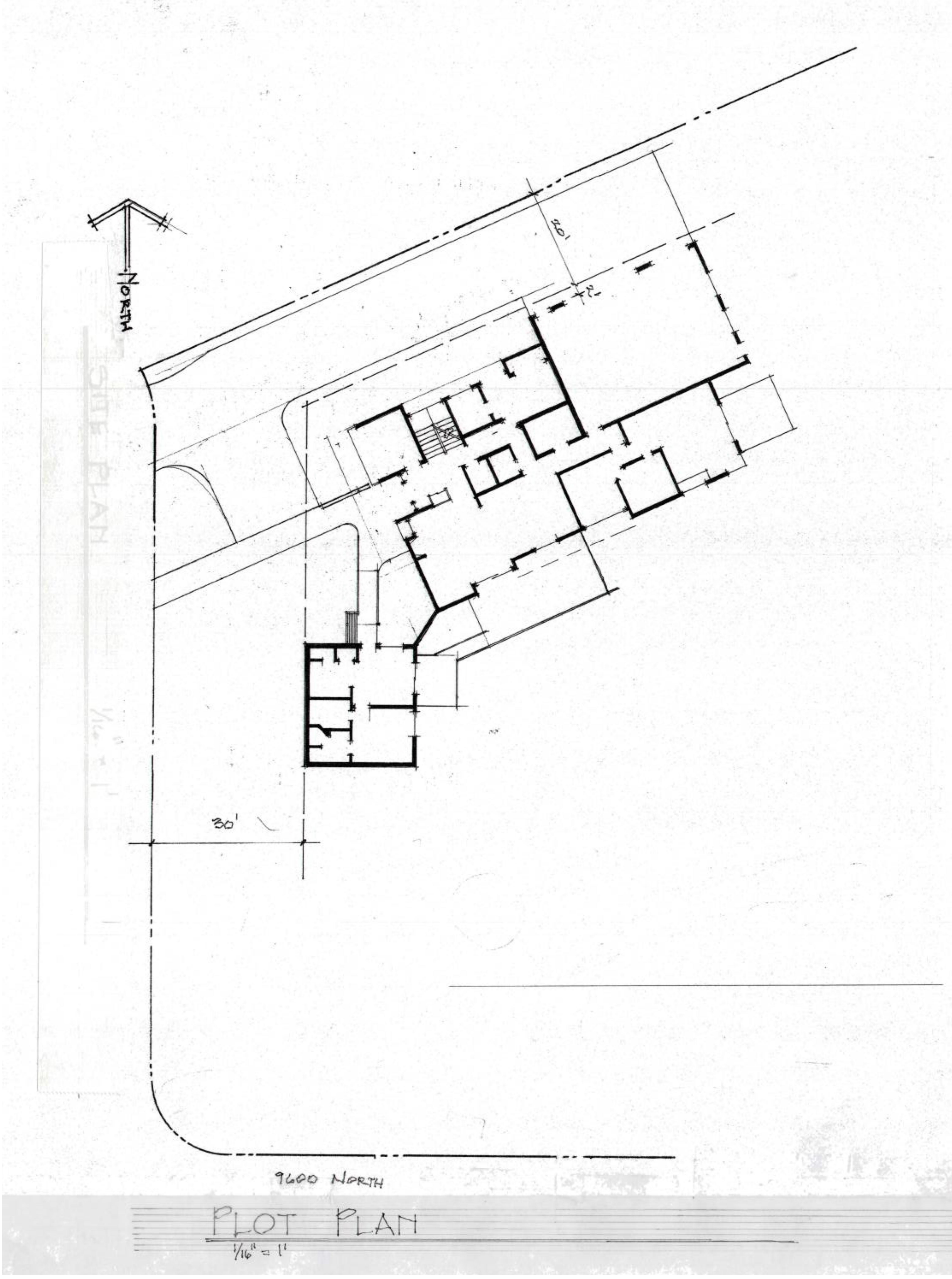
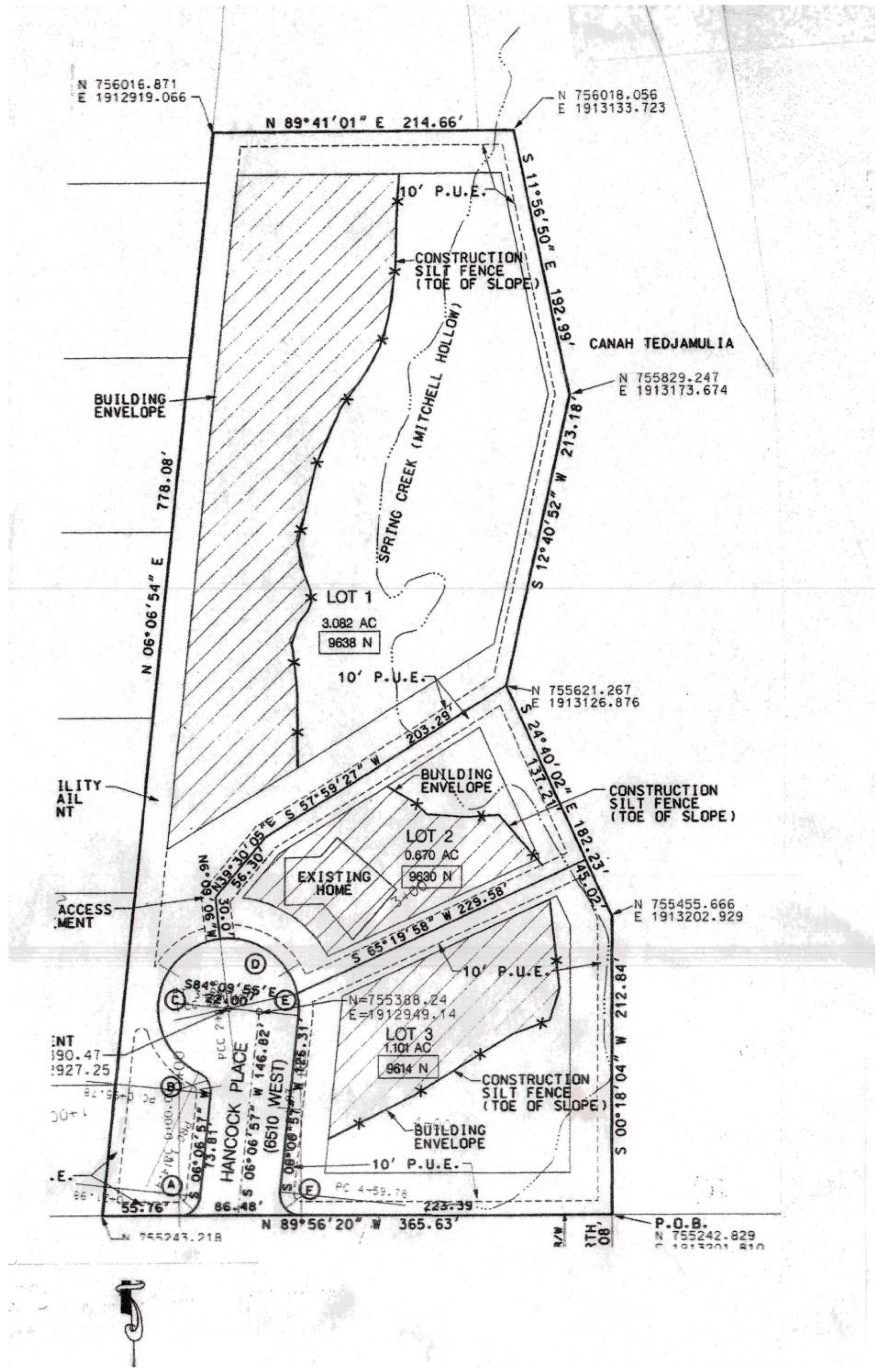


Jerry and Naomi Hancock Home

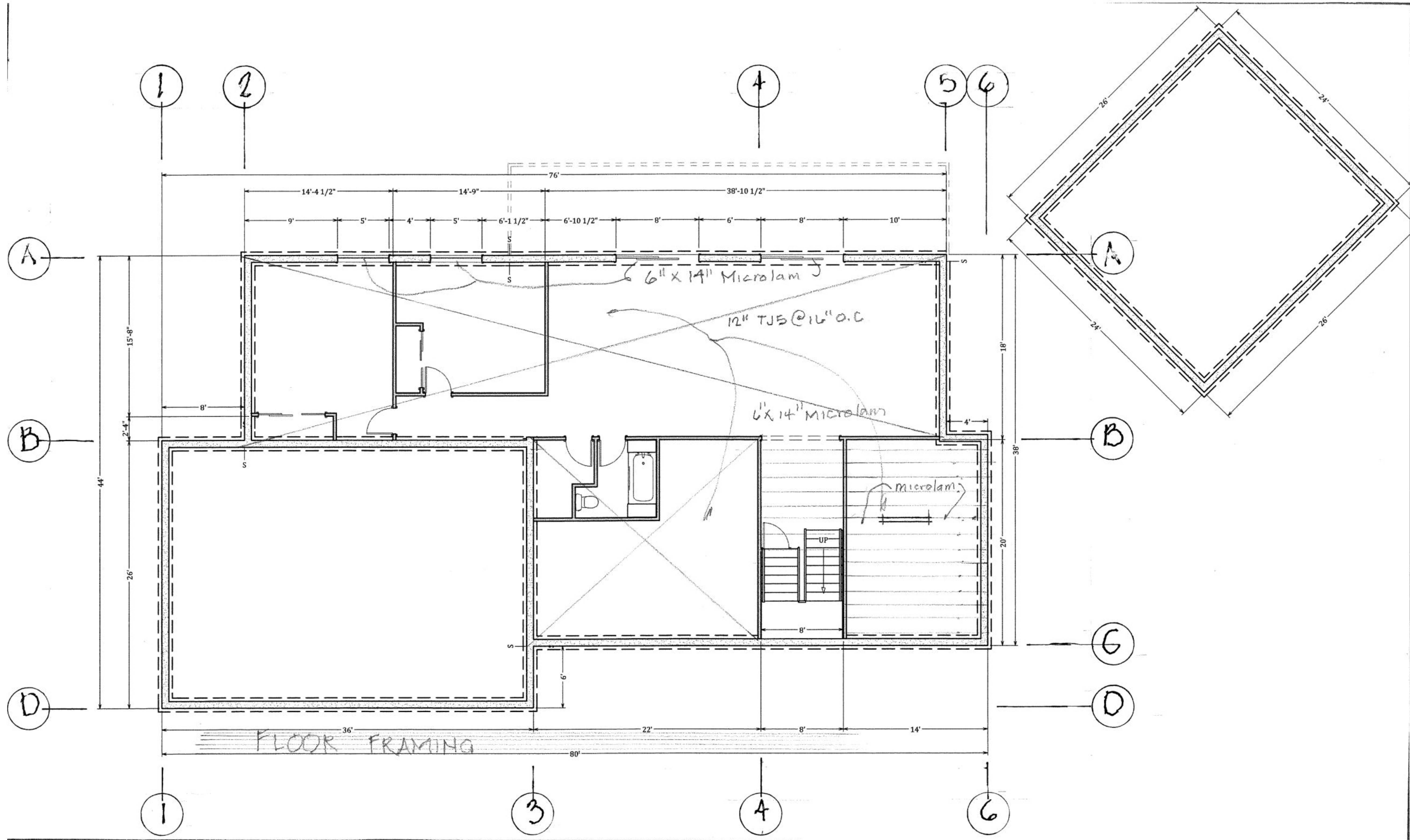
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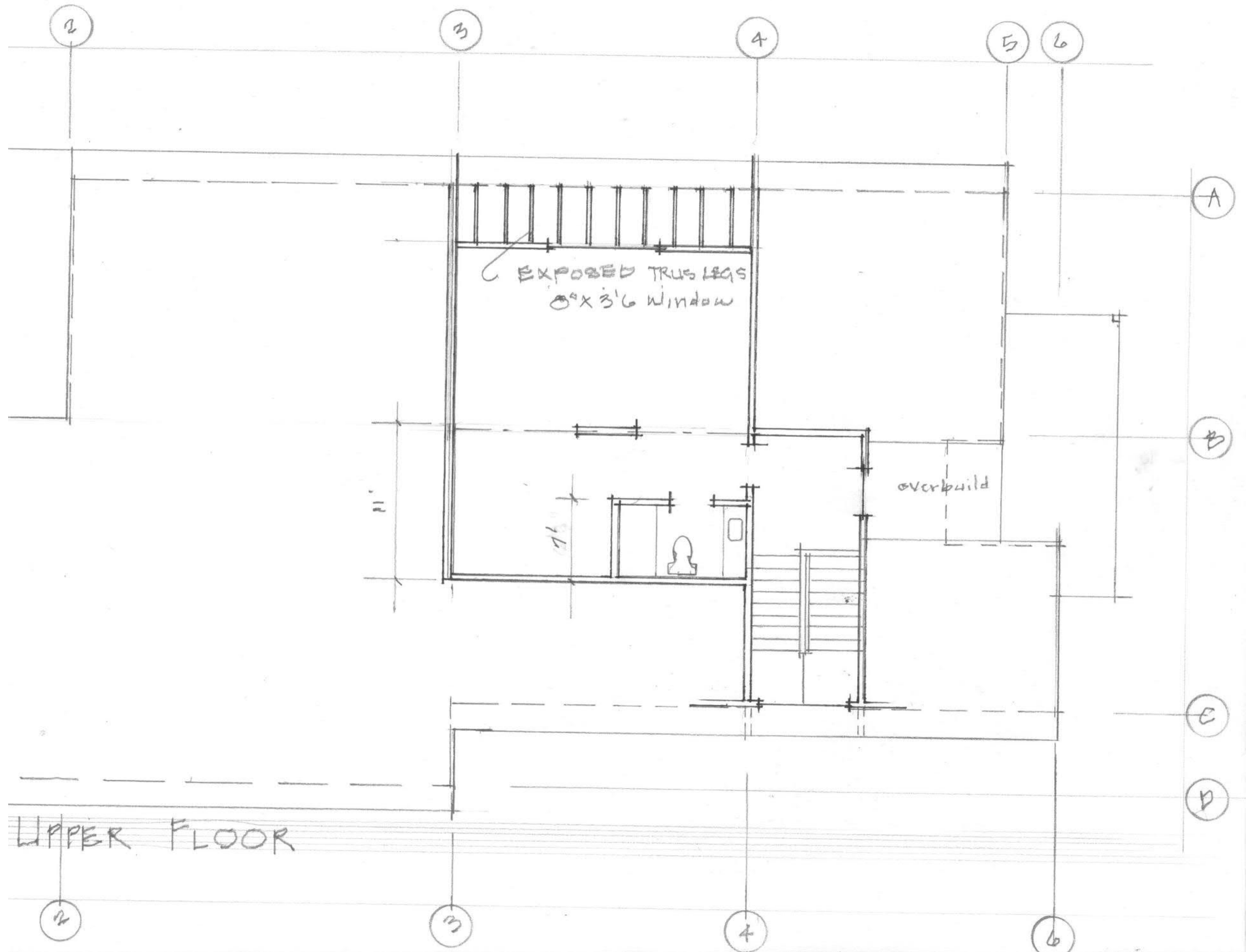
Plot Plan and notes

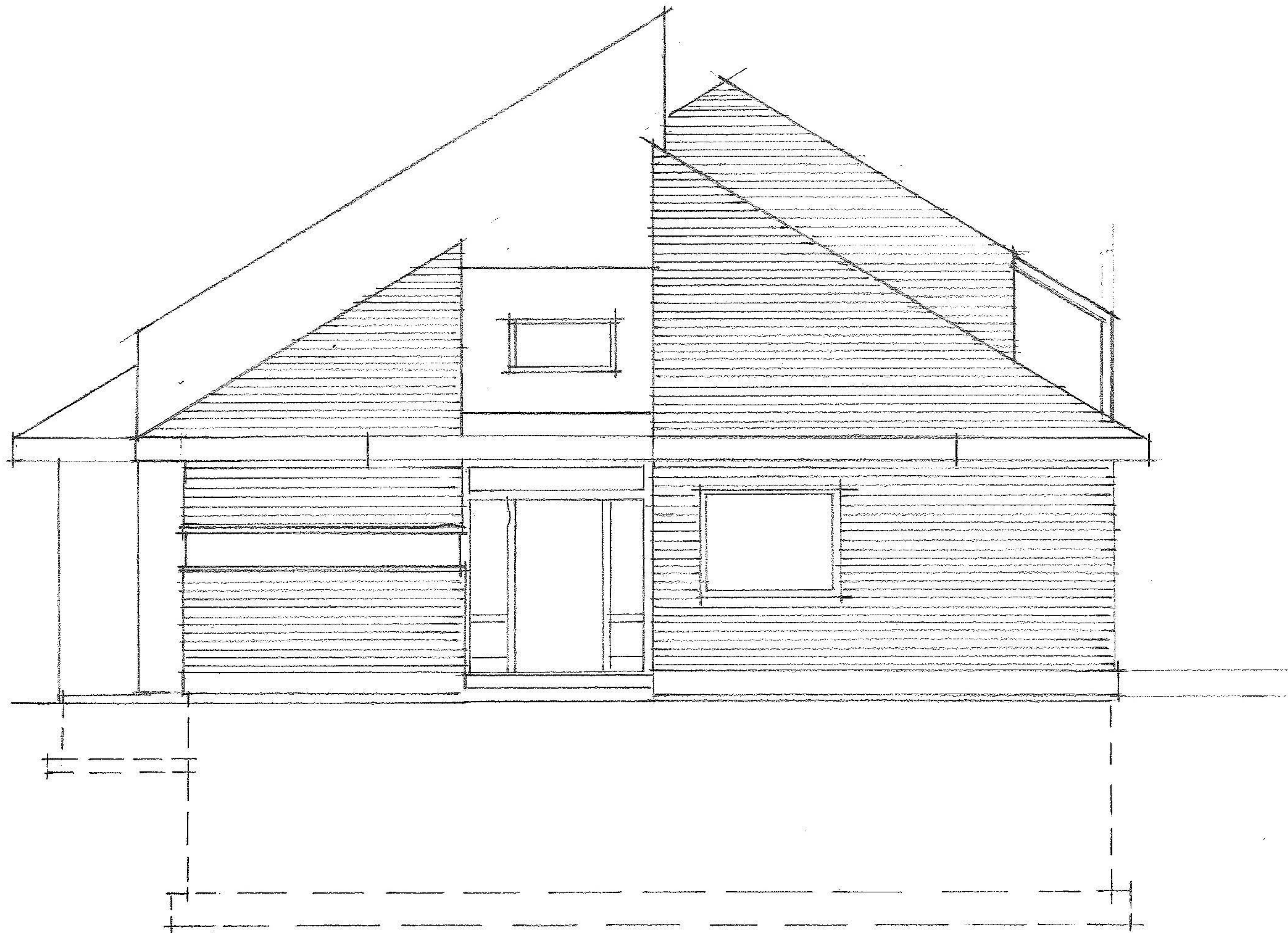


Basement Floor Plan



Second Story Layout



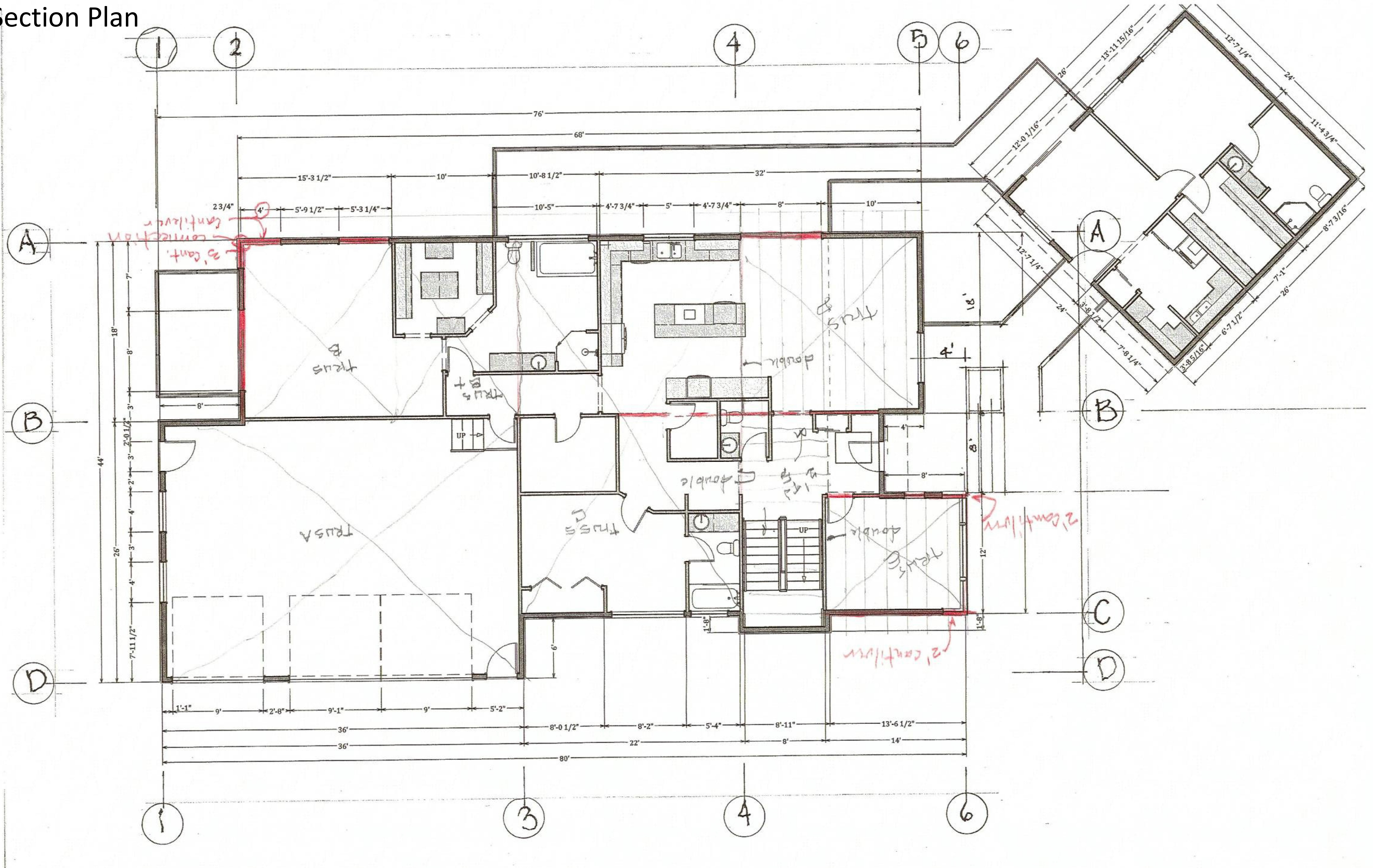


WEST ELEV.

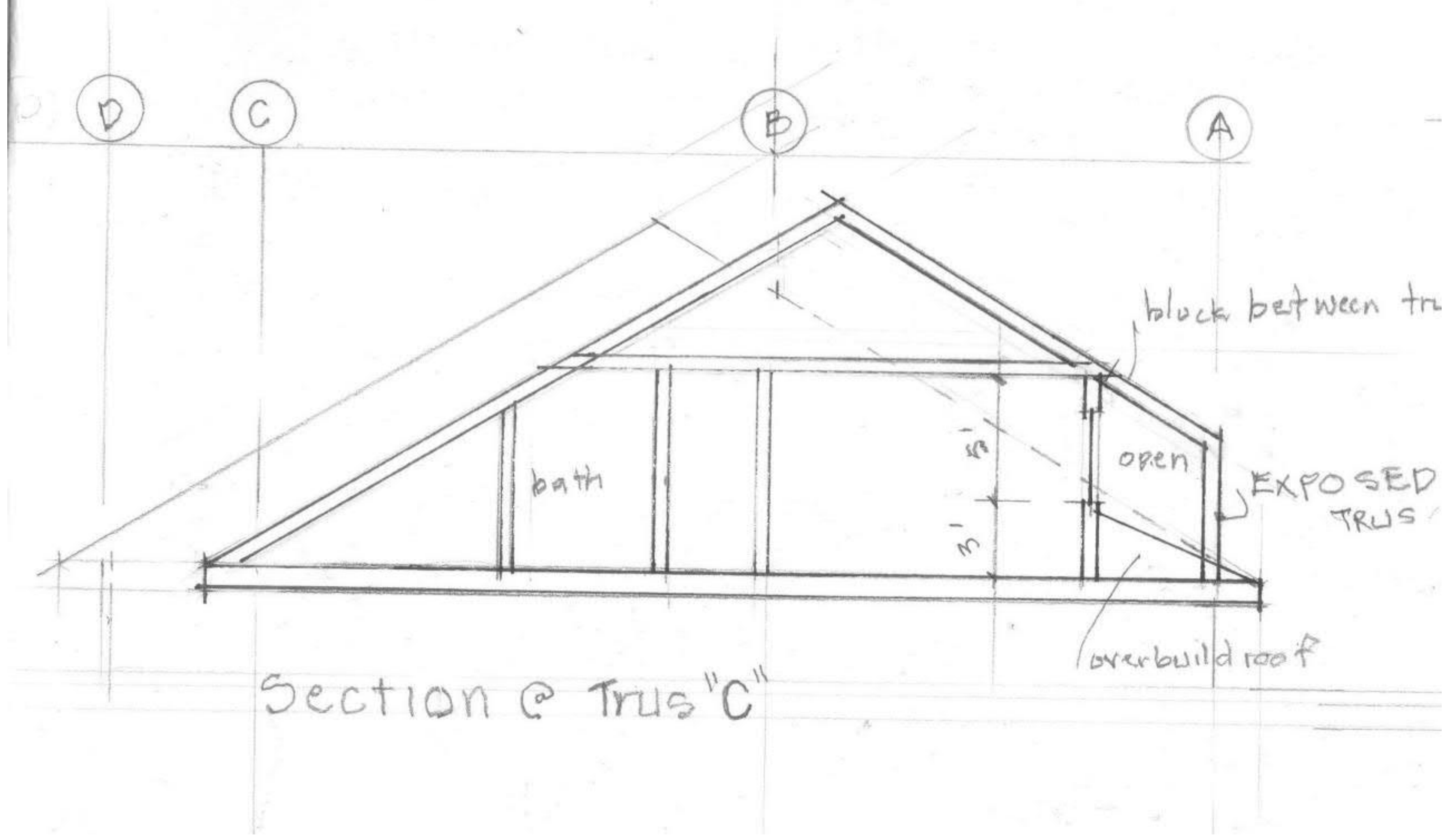
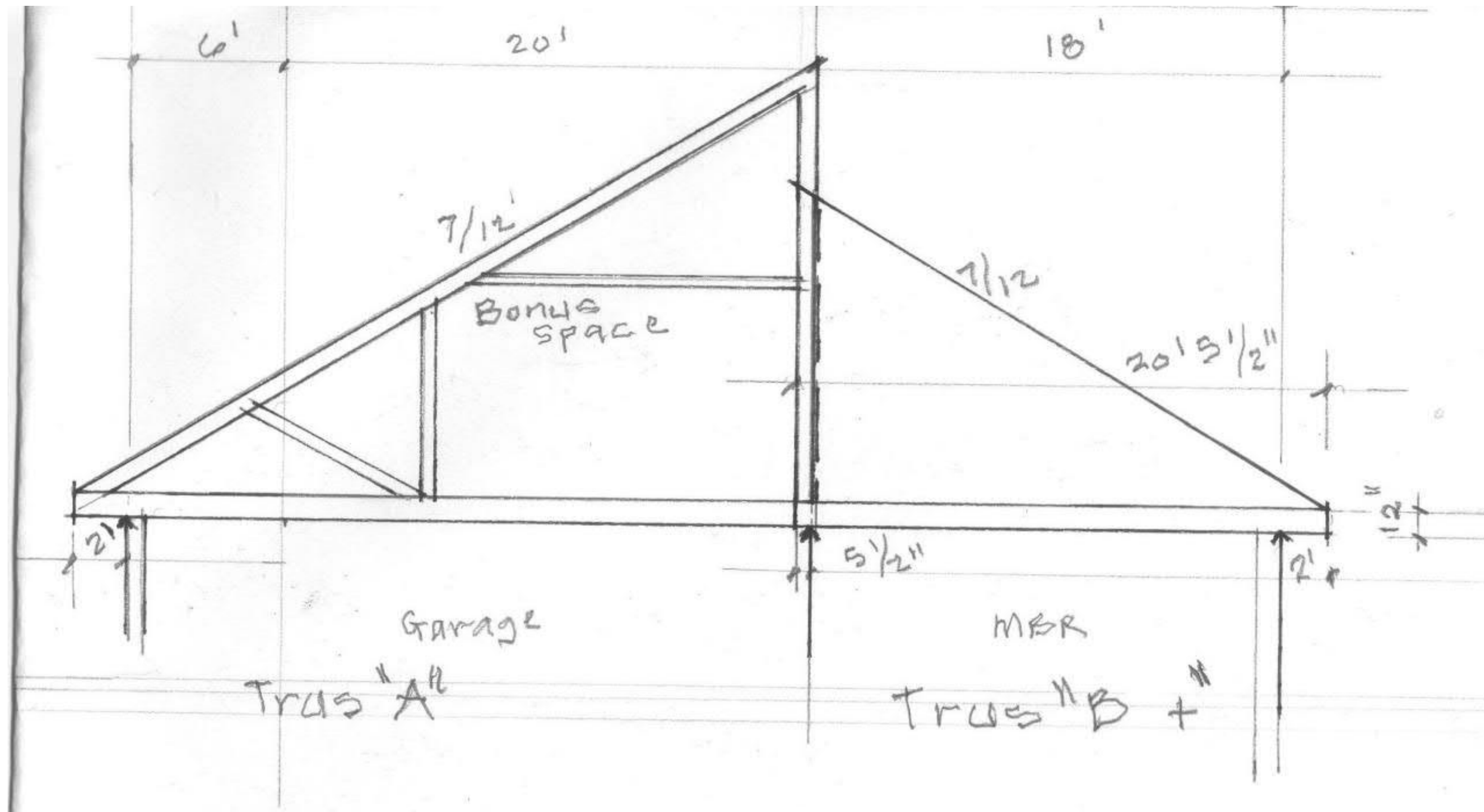


SOUTH ELEVATION

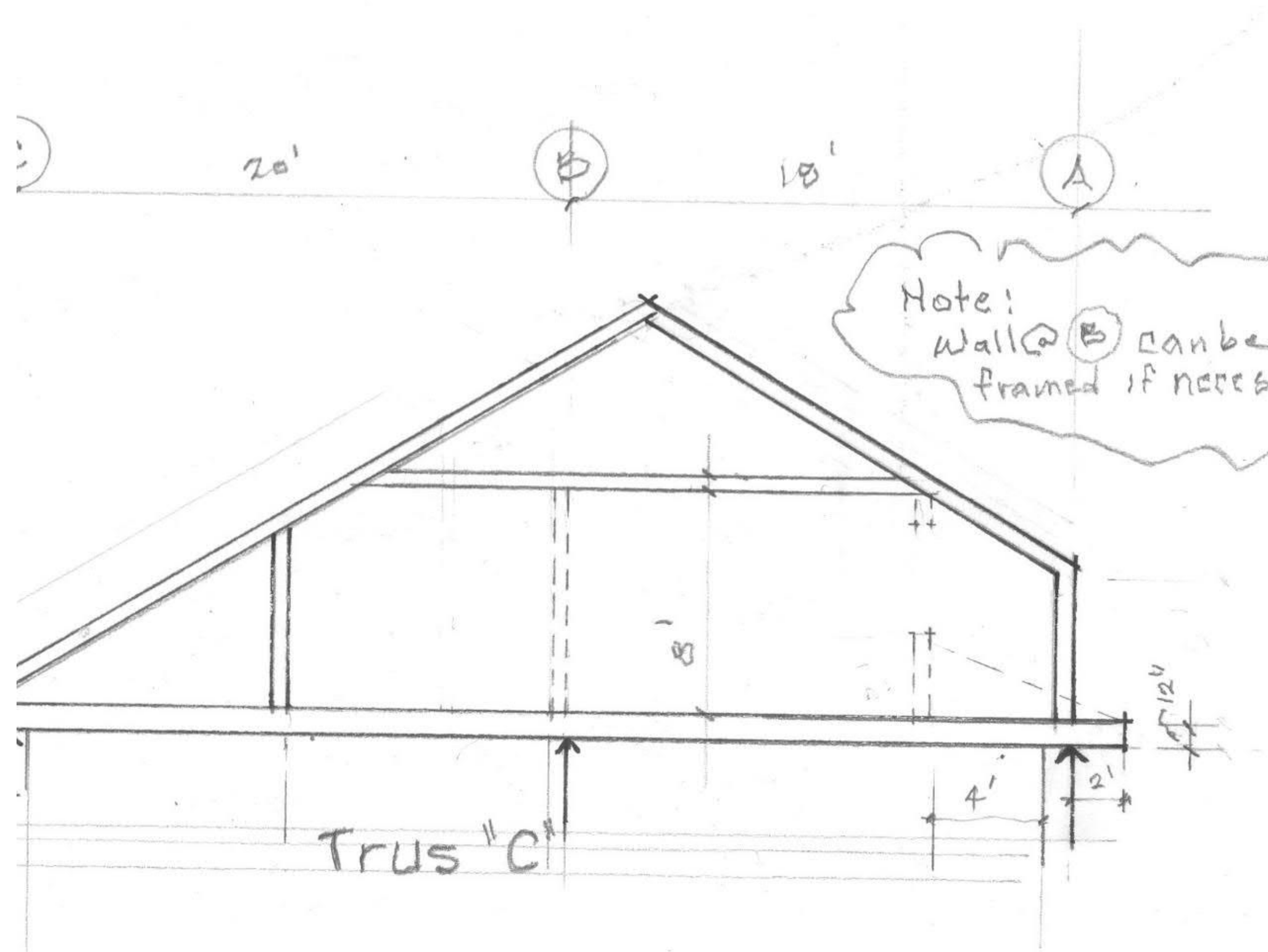
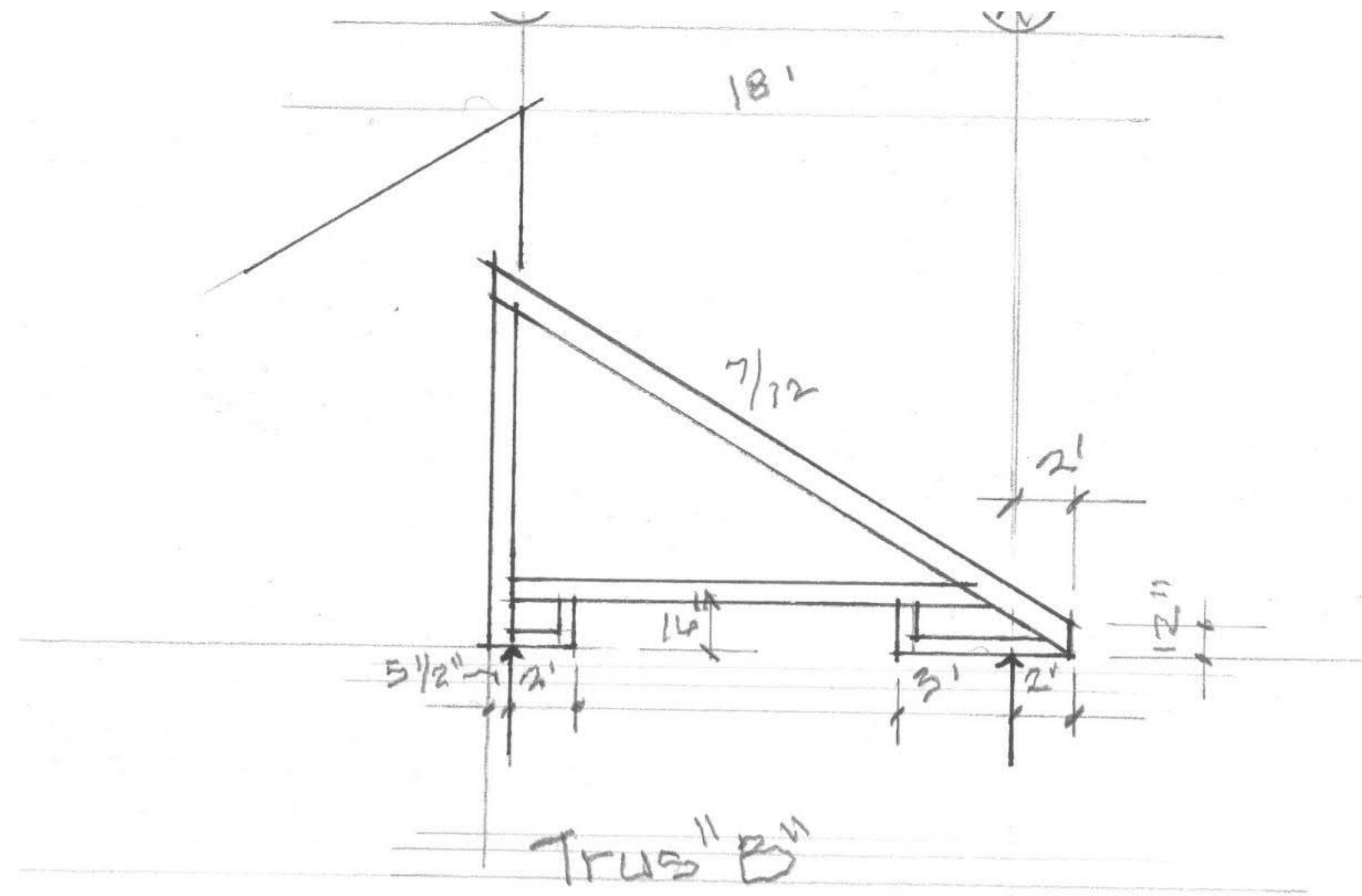
Roof Section Plan



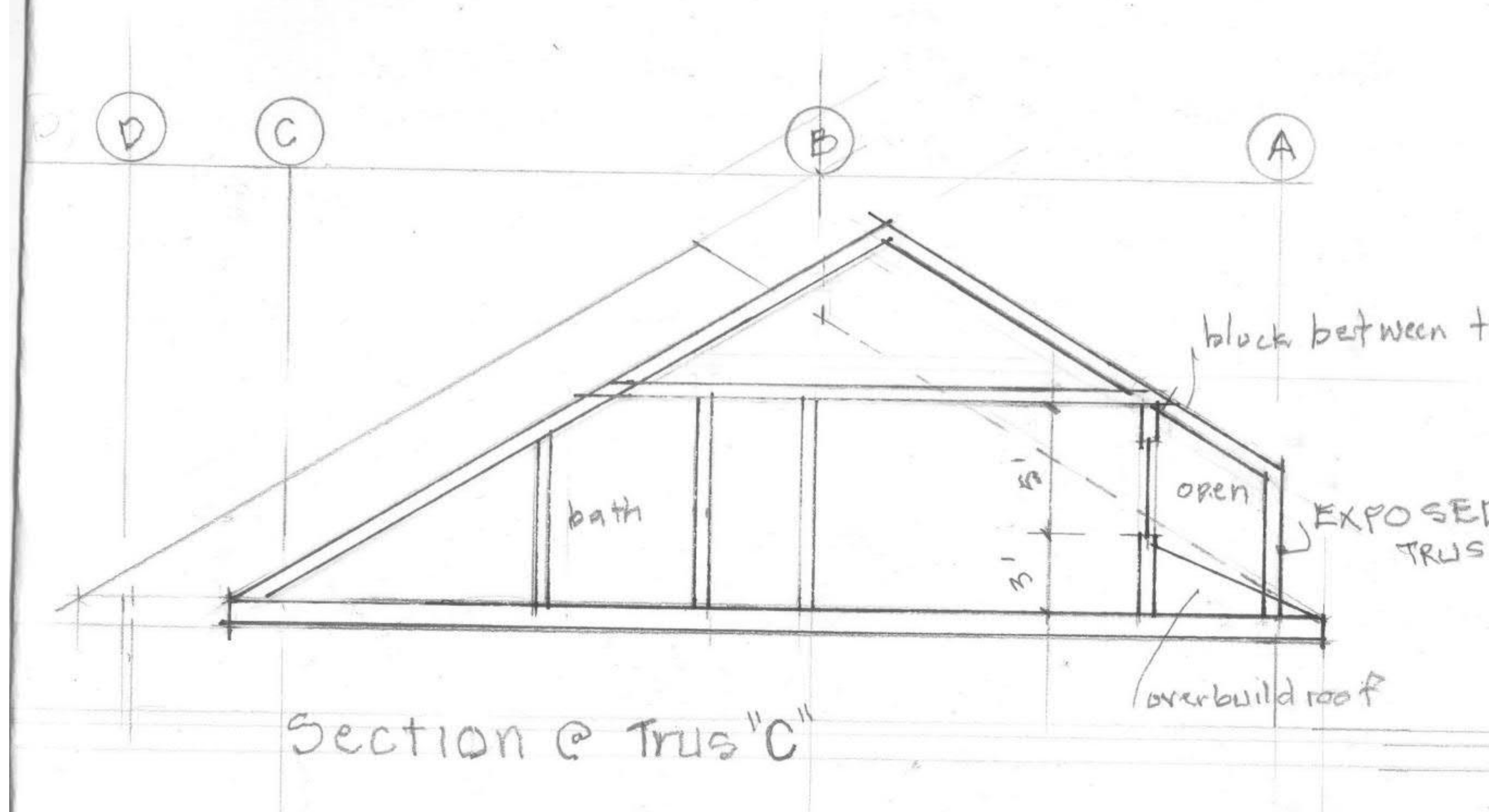
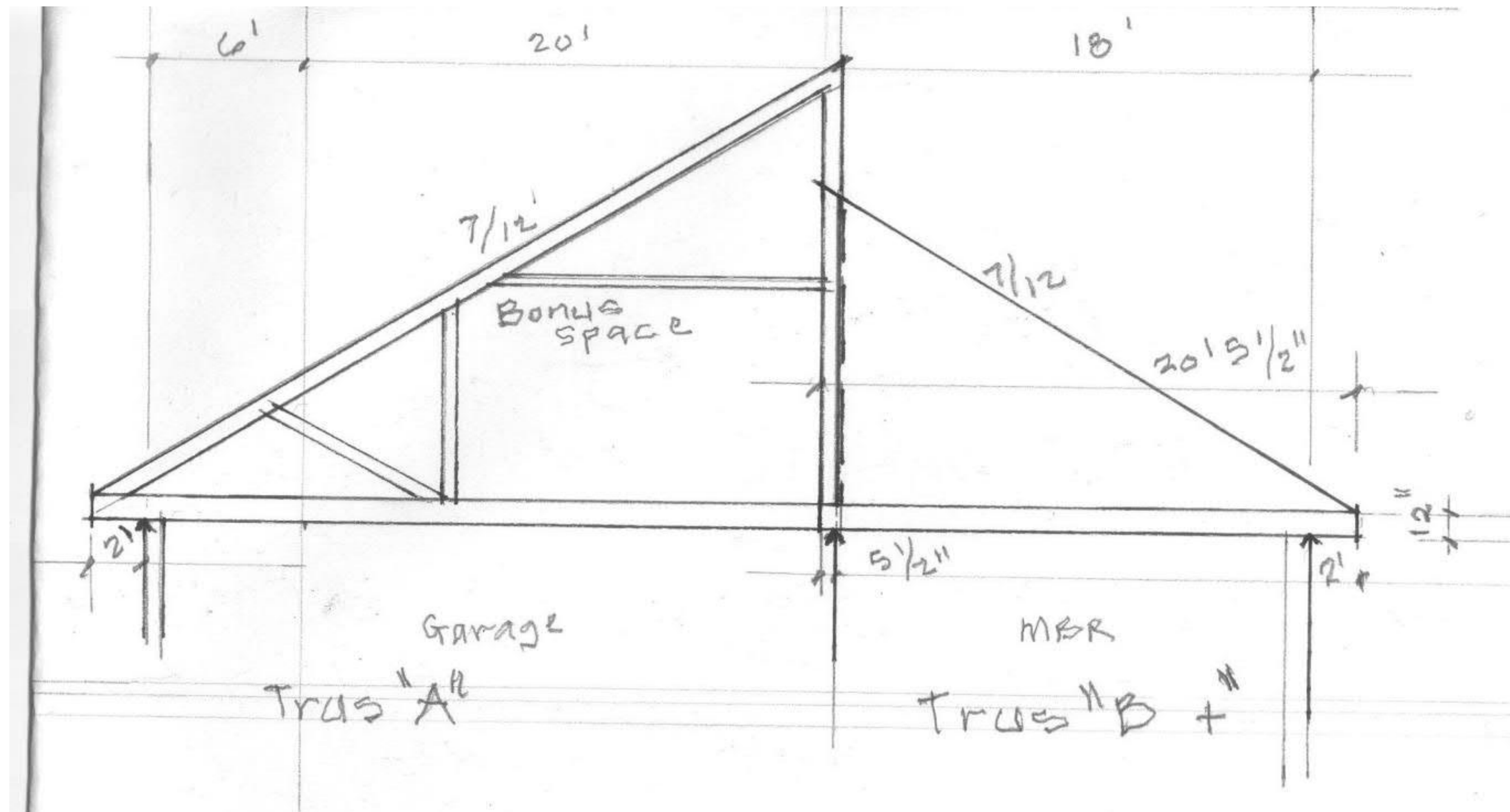
Trus A, B and C



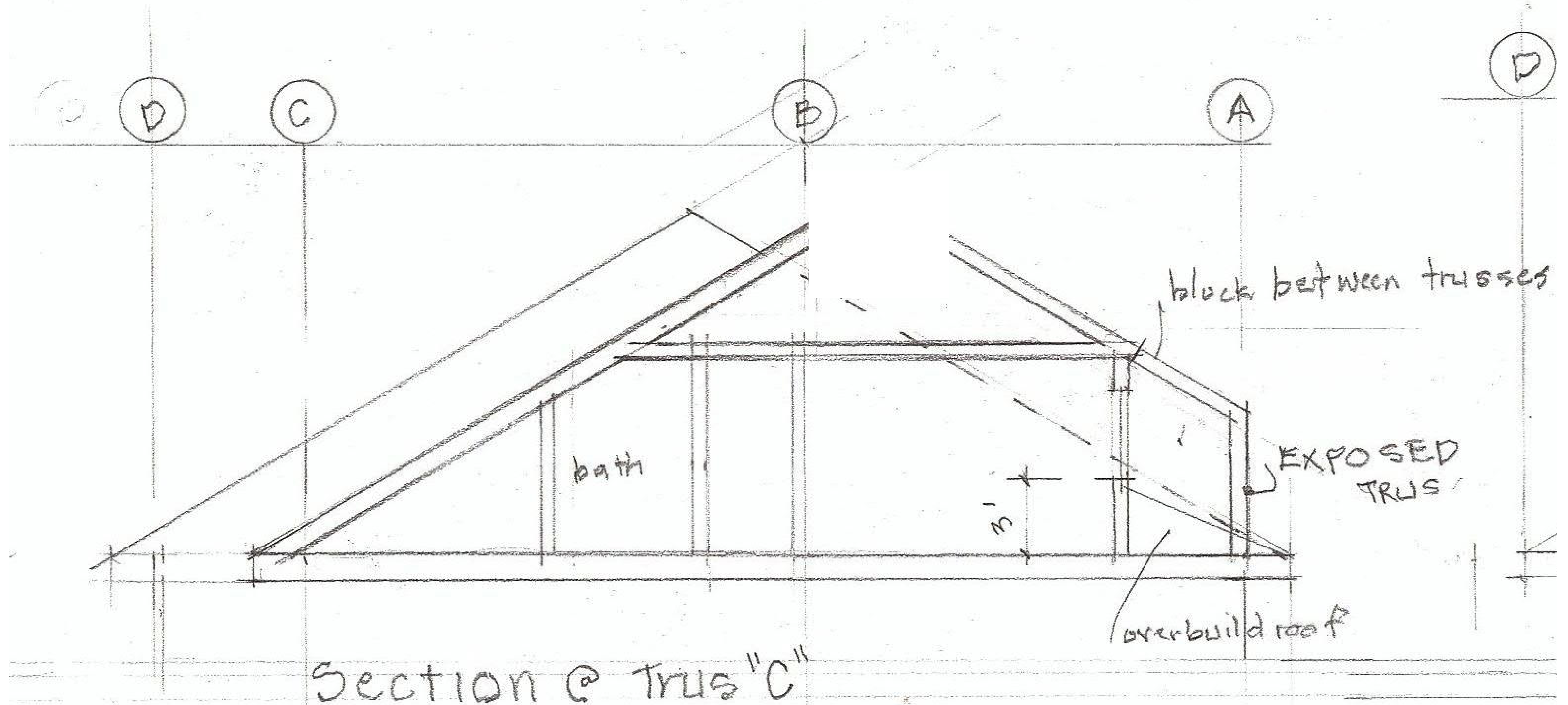
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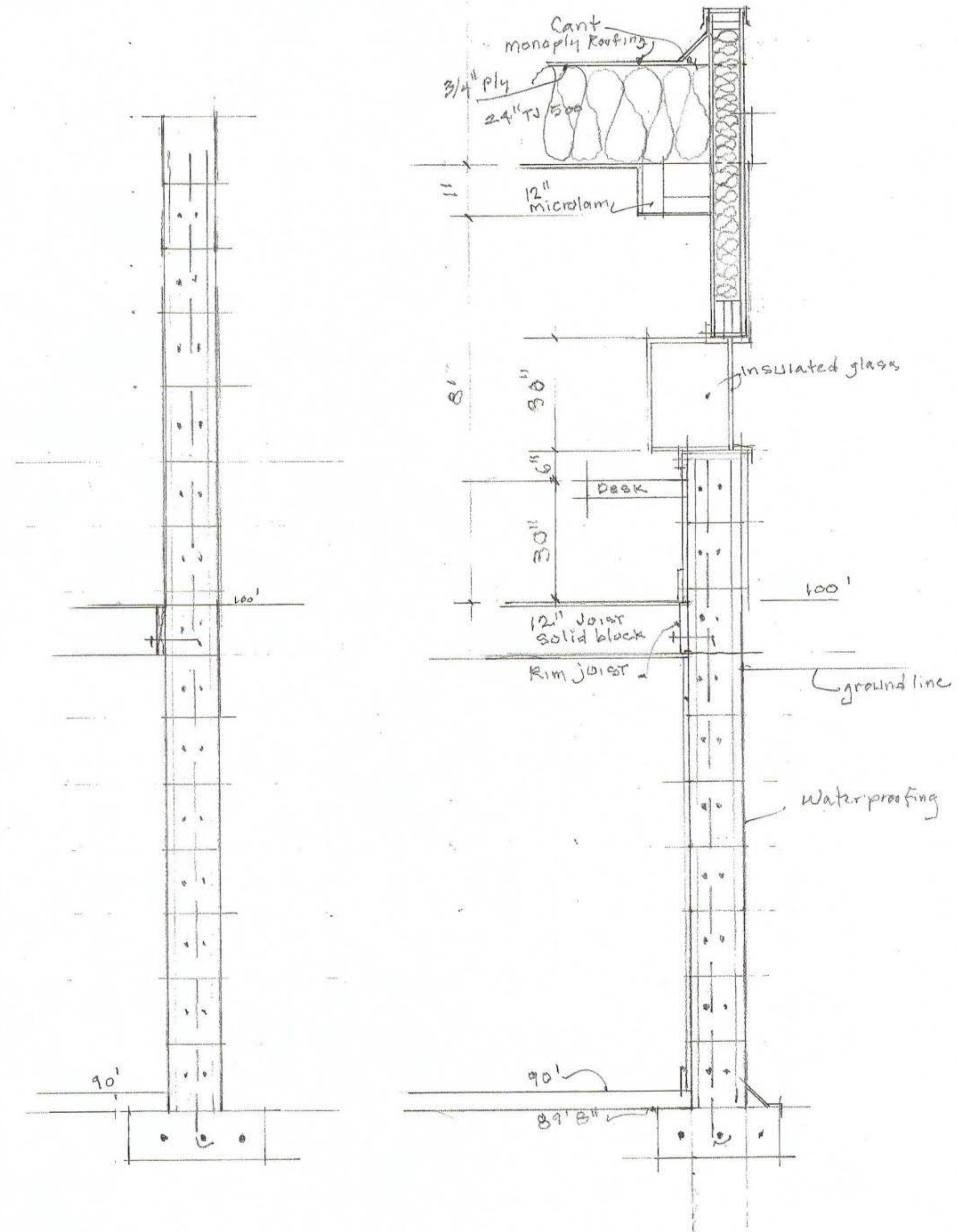
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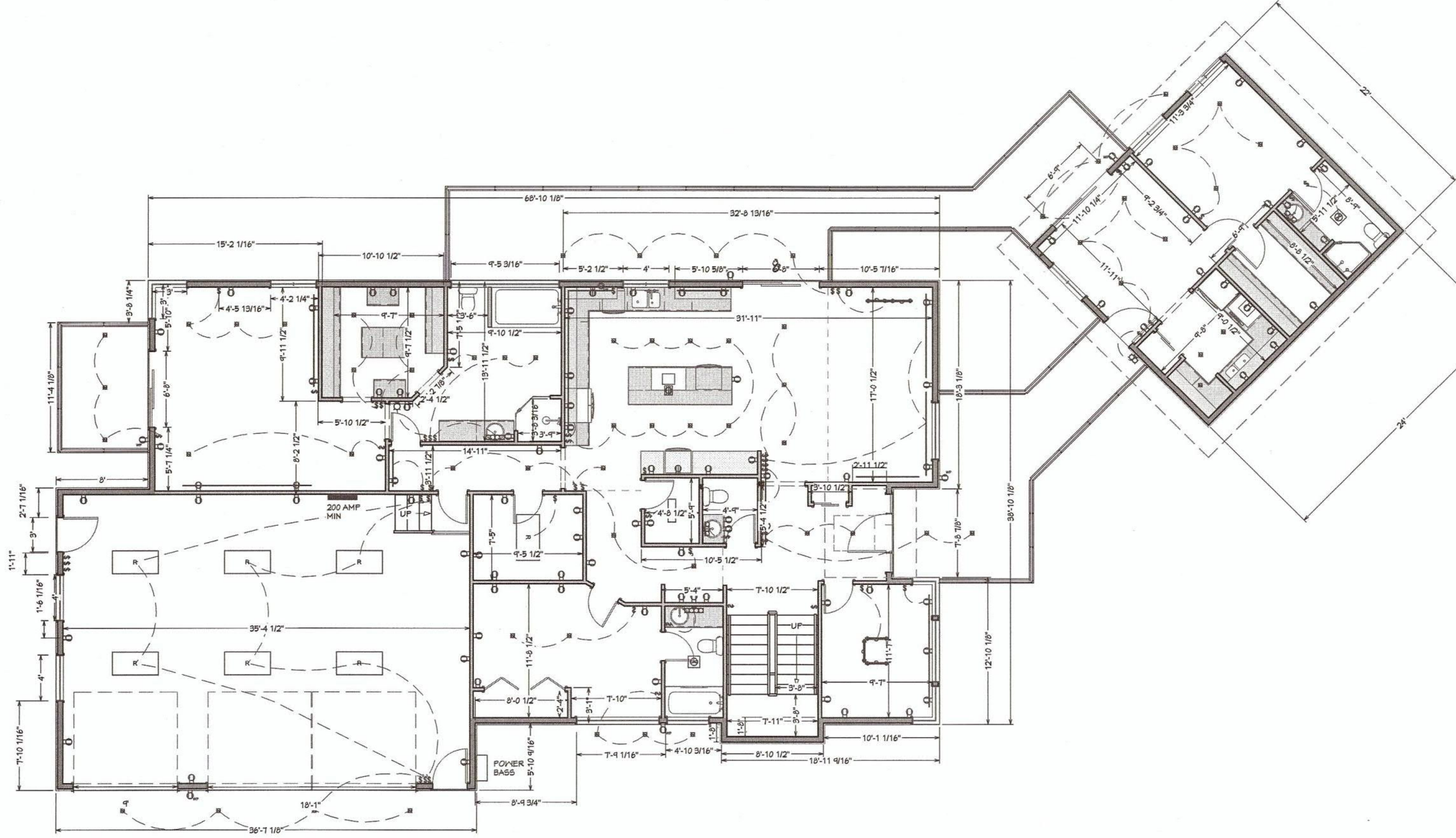
Trus C



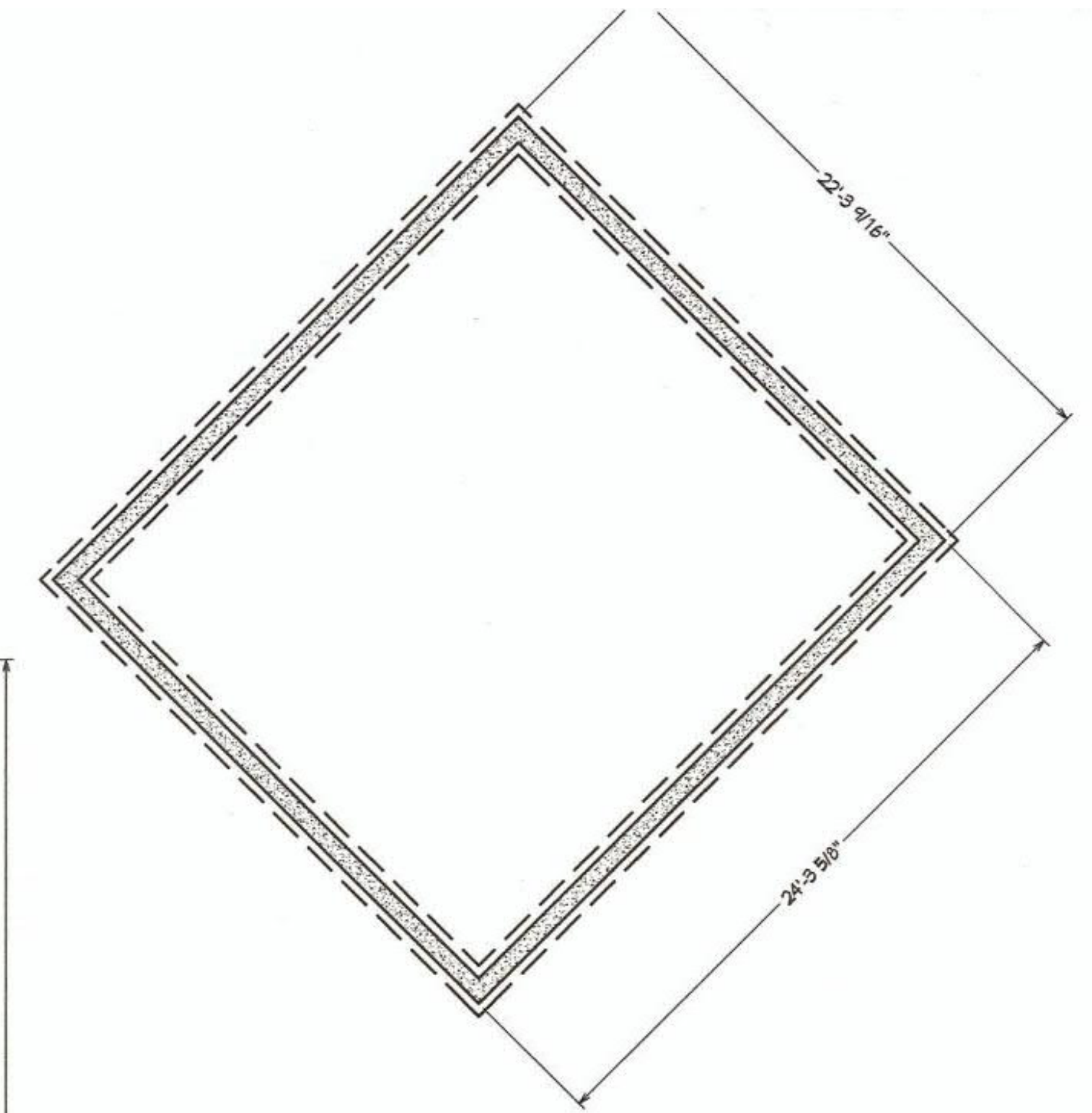
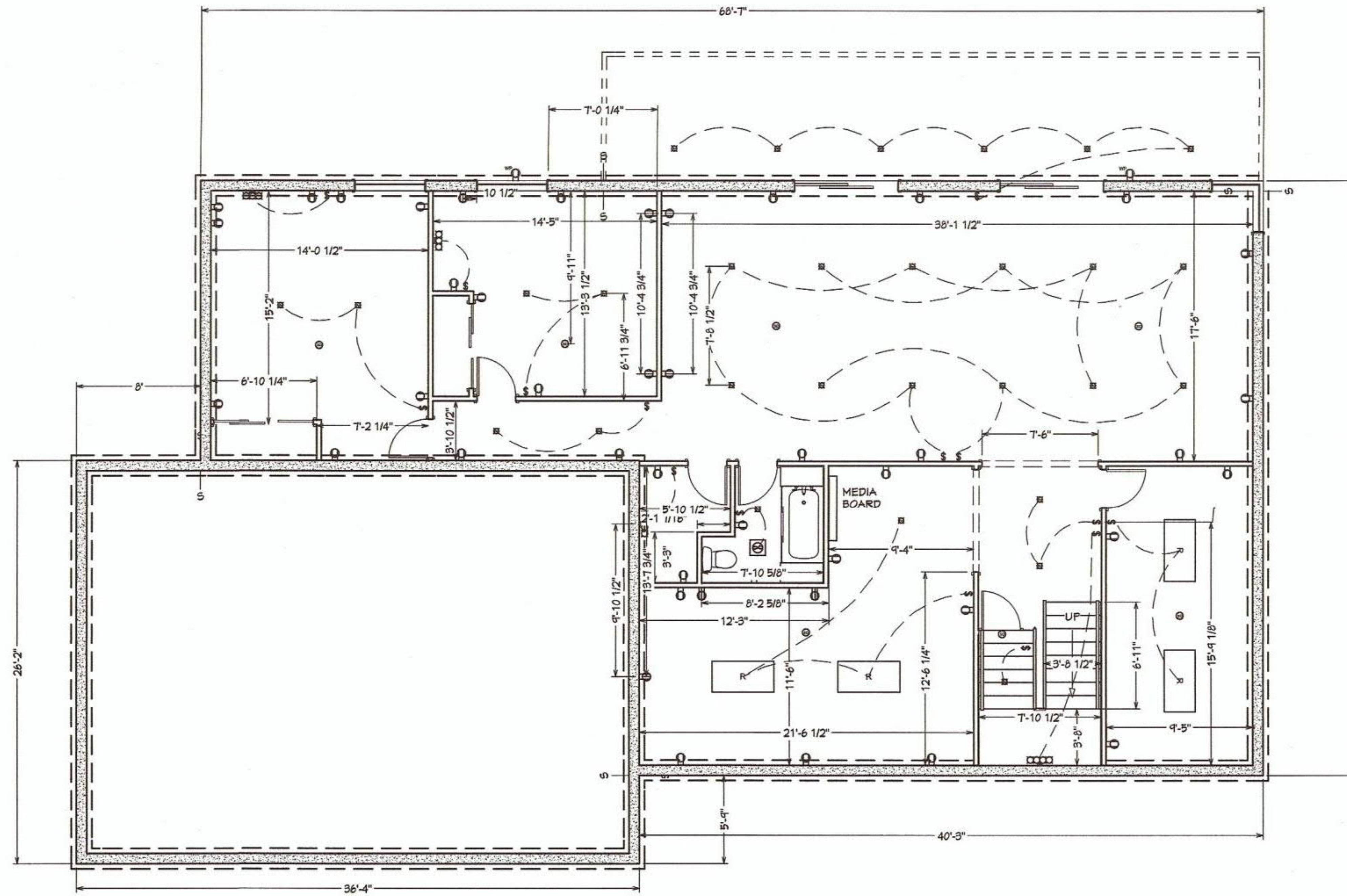
Wall Section



Electrical Main Floor

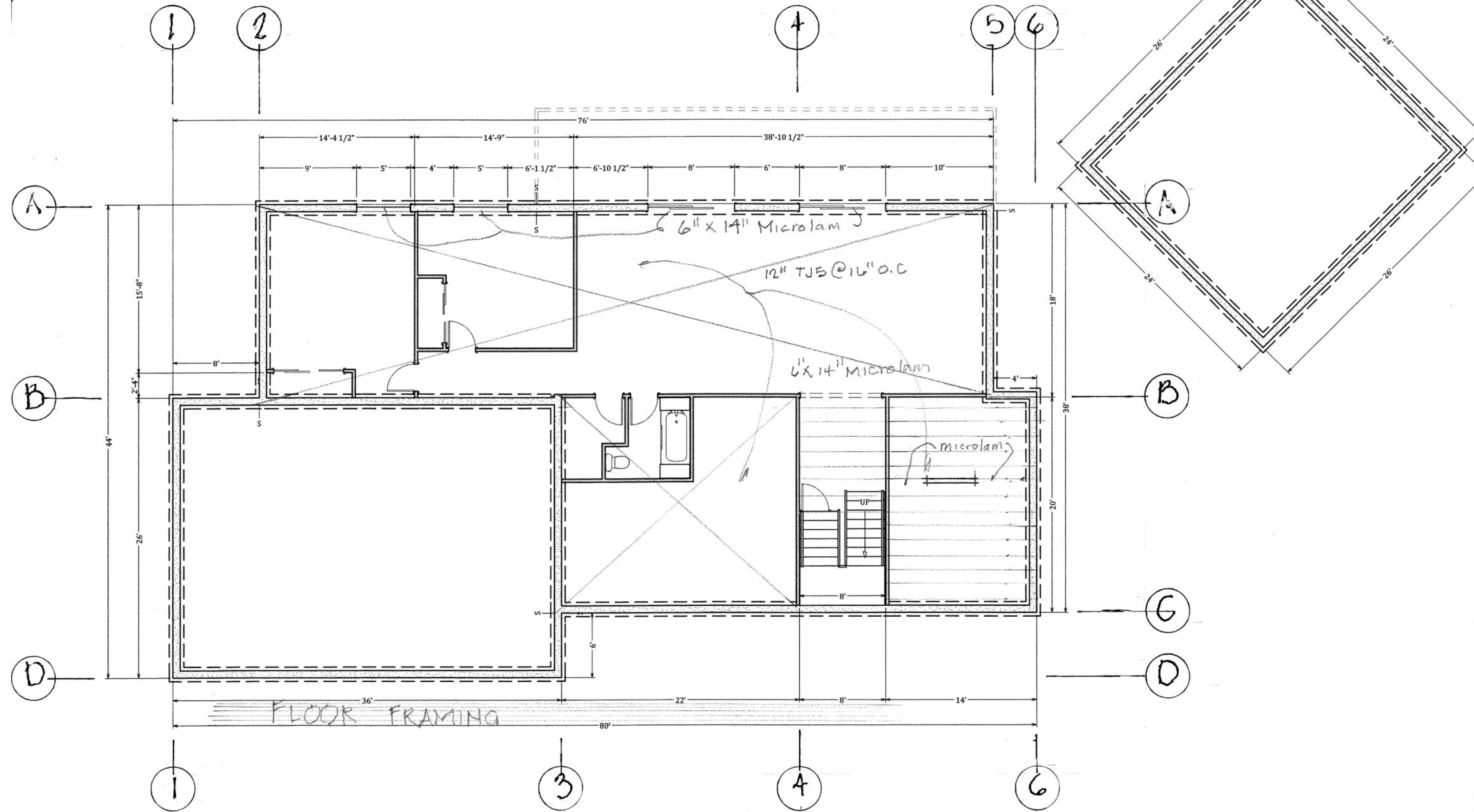


Basement Electrical

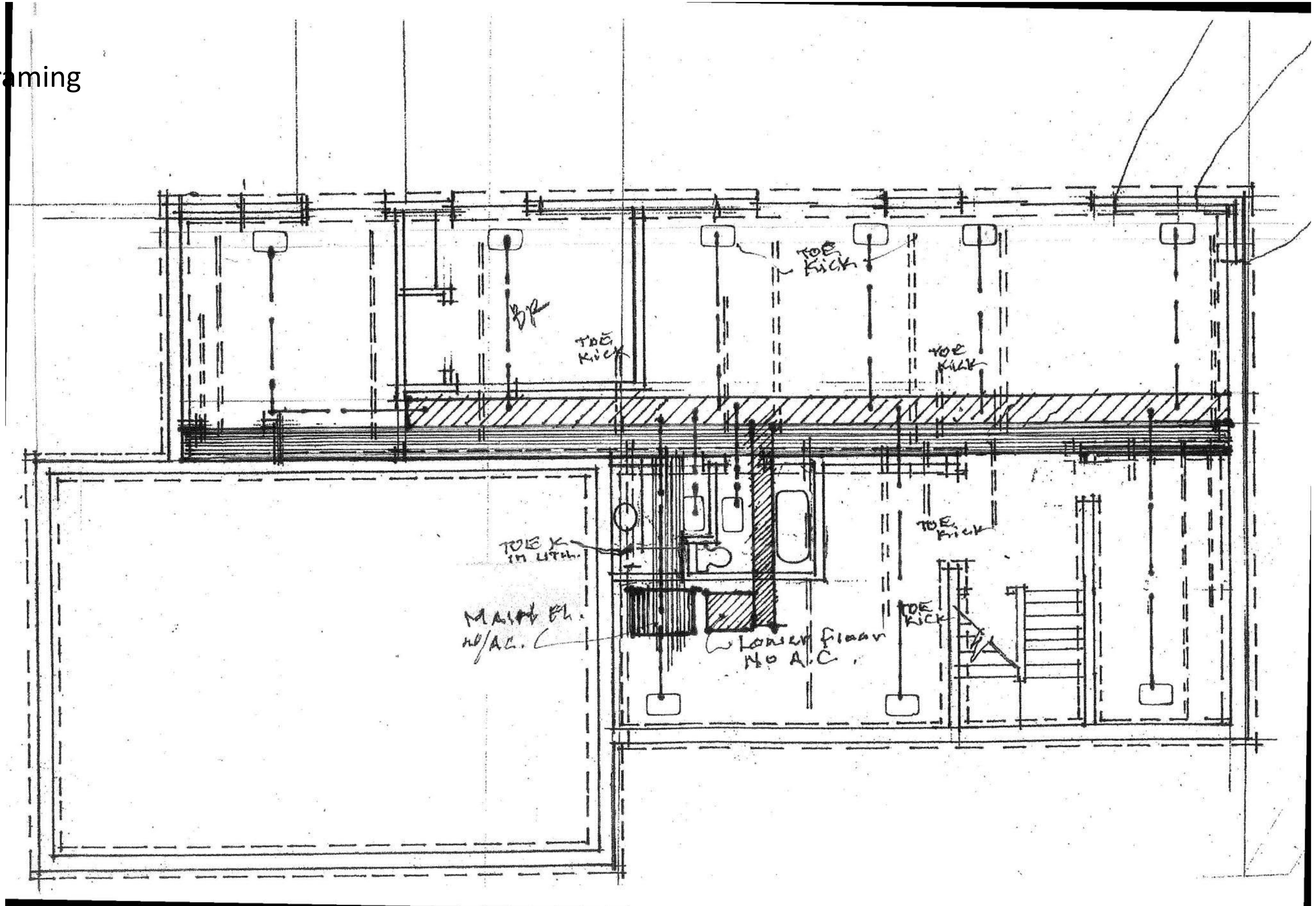


Foundation

Floor Framing



Floor Framing



ARCHITECTURAL NOTES

- CEILING HEIGHTS. HABITABLE ROOMS, HALLWAYS, CORRIDORS, LAUNDRY ROOMS AND BASEMENTS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7' MEASURED FROM FINISHED FLOOR TO FINISHED CEILING. BATHROOMS CAN BE 6'-8" MINIMUM. NOT MORE THAN 50% OF THE REQUIRED FLOOR AREA IS PERMITTED TO HAVE A SLOPED CEILING LESS THAN 7' WITH NO PORTION OF THE REQUIRED FLOOR AREA LESS THAN 5' IN HEIGHT - SEE EXCEPTIONS. OTHERWISE TYPICAL CEILING HEIGHTS ARE SHOWN ON DRAWINGS. [IRC R305.1](#)
- LIGHT FRAME WALLS. CONSTRUCT ½" GYP BOARD ON 2x FRAMING, FINISH TAPE AND PAINT.
- FINISH FLOORS. INSTALL CARPET AND PAD, WOOD FLOORING AND/OR FLOOR TILE WHERE INDICATED, AND AS SELECTED BY OWNER.
- WINDOWS. INSTALL ALPINE 80-SERIES OR BETTER IN WOOD FRAMED WALLS AND AMSCO LEGACY OR BETTER IN BASEMENT WINDOW WELL INSTALLATIONS. OWNER TO SELECT MANUFACTURER, COLOR AND STYLE. MAXIMUM GLAZING U-FACTOR TO BE 0.32 (IRC TABLE N1102.1). SCREENS TO BE NYLON FABRIC. CONTRACTOR TO INSTALL, SEAL AND WATERPROOF PER MANUFACTURER'S INSTRUCTIONS. MINIMUM WINDOW AREA SHALL EQUAL NOT LESS THAN 8% OF FLOOR AREA OF THE ROOM UNLESS ARTIFICIAL LIGHT IS PROVIDED CAPABLE OF PRODUCING AN AVERAGE ILLUMINATION OF SIX FOOTCANDLES OVER THE AREA OF ROOM AT A HEIGHT OF 30" ABOVE FLOOR. WINDOW VENTILATION SHALL PROVIDE A MINIMUM OF 4% OF FLOOR AREA. ALL WINDOWS EXCEPT GARAGE SHALL BE DOUBLE GLAZED w/ ½" MINIMUM SPACE. GLAZING IN DOORS AND PANELS OF SHOWERS AND BATHROOM ENCLOSURES AND WALLS ENCLOSED THESE COMPARTMENTS SHALL BE TEMPERED. TEMPERED GLASS SHALL BE PROVIDED IN FRAMELESS GLASS DOORS, GLASS IN DOORS, GLASS WITHIN 24" ARC OF DOORS, GLAZING LESS THAN 60" ABOVE WALKING SURFACE THAT IS WITHIN 5'-0" OF STAIRS, OR GLAZING WITHIN 5'-0" OF SPAS OR POOLS, CERTAIN FIXED GLASS PANELS, AND SIMILAR GLAZED OPENINGS SUBJECT TO HUMAN IMPACT. BASEMENT WINDOWS NOT FULLY 6" ABOVE GRADE SHALL BE PROTECTED BY WINDOW WELLS. WINDOW WELLS SHALL BE DUG TO A DEPTH BELOW THE WINDOW SILL TO ALLOW 10" OF 1" AGGREGATE GRAVEL. TOP OF GRAVEL TO BE 6" BELOW WINDOW SILL. MINIMUM WINDOW SIZE FOR ESCAPE TO BE 5.7 SF (BASEMENT) AND 5.0 SF (GRADE LEVEL), WITH 20 INCH MINIMUM WIDTH AND 24 INCH MINIMUM HEIGHT. ALL OPERABLE WINDOWS AND GLASS DOORS SHALL INCLUDE SCREENS. [IRC R303.1\(w/EXCEPTIONS\)](#), [R308](#), & [R310](#)
- WINDOW WELLS. INSTALL ZINC-COATED METAL WINDOW WELLS OR AS SELECTED BY OWNER, WITH LADDER IF OVER 44" HEIGHT FROM GRAVEL TO TOP - SEE DRAWINGS. WATERPROOF SEAMS. GRAVEL SURFACE AREA TO BE MINIMUM 9 SF AND PROJECTION WIDTH IS MINIMUM 3'. [IRC R310](#)
- DOORS. INSTALL PER DRAWINGS AND MANUFACTURER'S INSTRUCTIONS. DOOR STYLES AND COLORS TO BE SELECTED BY OWNER. EXTERIOR DOORS TO BE SOLID CORE WOOD OR METAL WITH WEATHER-STRIPPING AND GLASS SIDELITES AS INDICATED ON DRAWINGS, WITH IMPACT RESISTANT GLAZING, AND WITH U-FACTOR OF 0.25. PEOPLE DOOR BETWEEN GARAGE AND LIVING SPACE SHALL BE 1-3/8" THICK SOLID WOOD OR HONEYCOMB STEEL CORE, OR 20-MINUTE FIRE RATED WITH A SELF-CLOSING FEATURE PER IRC. STYLE AND TYPE SELECTED BY OWNER. [IRC R311](#)
- STAIRWAYS. PLACE TRIPLE STRINGERS, CUT FOR STEPS, ON EACH SIDE AND IN MIDDLE OF STAIRWAY. PLACE DOUBLE 2x FRAMING AROUND ALL AREAS OF FLOOR OPENINGS. RISERS TO BE 7.75" MAXIMUM HEIGHT AND TREADS TO BE 10" MINIMUM DEPTH. HANDRAIL SHALL BE HARDWOOD AND WILL BE PLACED ON ONE SIDE OF STAIRWAY, TO PROJECT NO MORE THAN 4.5" INTO STAIRS, AND SHALL BE PLACED 34" TO 38" ABOVE SLOPED PLANE ADJOINING TREAD NOSING. INSTALL ⅝" TYPE-X SHEETROCK TO FULLY ENCLOSE UNDER STAIRS. [IRC R311.5](#)
- GARAGE DOORS. INSTALL STEEL-BACK INSULATED GARAGE DOORS, MARTIN, COVINGTON COLLECTION OR BETTER. EACH DOOR TO INCLUDE OPERNER, w/ BELT-DRIVE MECHANISM FOR QUIET OPERATION, AND SHALL BE U.L. 325 LISTED. SIZE OPERNER TO DOOR WEIGHT AS RECOMMENDED BY MANUFACTURER.
- ATTIC ACCESS. PROVIDE 22"x30" ATTIC ACCESS DOOR OR COVER, LOCATED IN HALLWAY OR OTHER READILY ACCESSIBLE AREA. PROVIDE WITH 30" MINIMUM UNOBSTRUCTED HEADROOM OVER ACCESS IN ATTIC SPACE, w/ SWITCH OPERATED LIGHT ABOVE. ATTIC ACCESS LOCATED IN GARAGE AREAS MUST BE 1-HOUR FIRE RATED. [IRC R807.1 & M1305](#)
- STUCCO. CONTRACTOR TO INSTALL OWNER SELECTED COLOR AND MATERIAL IN ACCORDANCE WITH IBC / IRC AND MANUFACTURER'S INSTRUCTIONS.
- FIBER CEMENT SIDING. CONTRACTOR TO INSTALL HARDPLANK OR EQUIVALENT AS SELECTED BY OWNER. HARDPLANK TO BE CAULKED, SEALED, FLASHED AND PAINTED AS RECOMMENDED BY MANUFACTURER - JAMES HARDIE SIDING PRODUCTS. MANUFACTURER'S INSTALLATION INSTRUCTIONS TO BE ON JOB SITE AT ALL TIMES. SEALANT TO BE MARKED "PERMANENT FLEXIBLE" ON CONTAINER OR IN LITERATURE. COLOR SELECTED BY OWNER. [IRC R703.10](#)
- DECAY PROTECTION. WOOD INCLUDING QULULAM BEAMS EXPOSED TO GROUND OR NATURAL ELEMENTS SHALL BE PREPARED WITH APPROVED PRESSURE-PRESERVATIVE TREATMENT. [IRC R317](#)
- TERMITE PROTECTION. PROVIDE TERMITE PROTECTION IN ALL REQUIRED AREAS PRIOR TO CONSTRUCTION. [IRC SECTION R318](#)
- MOISTURE PROTECTION. INSTALL FLASHING AND SEALANT IN EXTERIOR JOINTS AS REQUIRED / RECOMMENDED BY MANUFACTURER.
- INSULATION. NON-ICF LOCATIONS. INSTALL FIBERGLASS BATT OR LOOSE FILL. MINIMUM R-VALUES TO BE CEILING R-49, WALLS R-20 OR R-13+5, FLOOR OVER UNHEATED SPACE R-30 (USE R-19 MIN. IF LIMITED SPACE AVAILABLE), BASEMENT WALLS R-15/19, AND CRAWL SPACE WALLS R-15/19, UNLESS OTHERWISE NOTED ON DRAWINGS, OTHERWISE DETERMINED BY RESCHECK, SUBJECT TO IRC EXCEPTIONS. INSULATION FOR GARAGE EXTERIOR WALLS AND GARAGE CEILING UNDER UNOCCUPIED SPACE IS AT HOMEOWNER'S DISCRETION. [IRC N1102 & TABLE N1101.10 \(CLIMATE ZONE 5\)](#)
- VAPOR BARRIER. AS REQUIRED BY ICF MANUFACTURER. ENTIRE LIVING SPACE ENVELOPE TO BE ENCLOSED WITH 4-MIL PLASTIC VAPOR BARRIER, PLACED ON WARM-IN-WINTER SIDE OF INSULATION. [IRC R702](#)
- PAINT. JOINTS AND TRIM TO BE FULLY CAULKED. PAINT SHALL BE A TWO-TONE SYSTEM OF LATEX BASED SEALER, PRIMER AND TWO COATS ALKYD FINISH, OR AS SELECTED BY OWNER. COLORS AND TINTING TO BE AS SELECTED BY OWNER.
- SHINGLES. CONTRACTOR TO FURNISH AND INSTALL 30-YEAR ARCHITECTURAL GRADE ASPHALT SHINGLES. INSTALL IAW IRC SECTION 905 AND MANUFACTURER'S INSTRUCTIONS, COMPLETE WITH UNDERLAYMENT, FLASHING, SEALANT AND OTHER MATERIALS. USE DOUBLE UNDERLAYMENT FOR SHINGLES PLACED ON ROOF SLOPES BETWEEN 2"-4" IN 12" SLOPES. WHEN DESIGN WIND SPEED IS OVER 110 MPH, USE CORROSION-RESISTANT FASTENERS. [IRC R905](#)
- RAIN GUTTERS AND DOWNSPOUTS. INSTALL HIGH-GRADE VINYL PER IBC / IRC, WITH COLOR AND STYLE SELECTED BY OWNER.
- SOFFIT AND FASCIA. TO BE CONSTRUCTED OF EXTERIOR GRADE PLYWOOD OR ALUMINUM AS SELECTED BY OWNER, AND TO BE INSTALLED BY CONTRACTOR PER MANUFACTURER'S INSTRUCTIONS.
- EXTERIOR BRICK / FACE ROCK. CONTRACTOR TO INSTALL BRICK AND / OR FACE ROCK AS SELECTED BY OWNER. INSTALL PER IBC / IRC AND MANUFACTURER'S INSTRUCTIONS.
- FOUNDATION DRAINAGE. INSTALL FOUNDATION DRAINAGE SYSTEM WHERE REQUIRED BY BUILDING OFFICIAL FOR THE BUILDING SITE. [IRC R405.1](#)
- RADON CONTROL. WHILE THE CONSTRUCTION SITE IS NOT LOCATED IN A COUNTY OF RECOGNIZED HIGH RADON POTENTIAL, WHERE RADON IS DEEMED TO BE AN ISSUE AS DETERMINED BY LOCAL BUILDING OFFICIAL OR OWNER, THE CONTRACTOR SHALL INSTALL A PASSIVE SUB-SLAB DEPRESSURIZATION RADON EXHAUST SYSTEM WITH GRADE GRAVEL SIMILAR TO THAT SHOWN IN IRC APPENDIX F AND SHALL INCORPORATE OTHER MEASURES OUTLINED IN IRC. RADON TEST METER IS AVAILABLE ON LOAN FROM ENGINEER. [IRC APPENDIX F](#)
- NO STUMPS, ROOTS, OR ORGANIC MATERIAL SHALL BE PRESENT IN SOIL AT THE AREA OF JOB SITE.
- APPROVED BUILDING ADDRESS NUMBERS SHALL BE PROVIDED AND PLACED IN A POSITION WHICH IS PLAINLY VISIBLE AND LEGIBLE FROM FRONTAGE STREET OF PROPERTY.
- CONSTRUCTION MATERIAL AND DEBRIS SHALL BE SECURED AT ALL STAGES OF CONSTRUCTION TO PREVENT TRAVELING FROM JOB SITE. CONSTRUCTION MATERIALS AND DEBRIS SHALL REMOVED FOR FINAL INSPECTION.
- THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IAW THE REQUIREMENTS OF IRC SECTIONS N1102.4.1 THROUGH N1102.4.5. COMPLIANCE WILL BE IAW THE PRESCRIPTIVE METHOD OF IRC N1102.4.1.1 UNLESS OWNER IDENTIFIES TO BUILDING OFFICIAL THAT COMPLIANCE WILL BE DEMONSTRATED BY TEST IAW N1102.4.1.2
- LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL NOT FEWER THAN 6 INCHES WITHIN THE FIRST 10 FEET. [IRC R401.3](#)

GENERAL FRAMING NOTES

- USE DOUGLAS FIR / HEMLOCK FIR FOR FRAMING--STUD GRADE FOR WALLS, NO. 2 FOR ALL OTHER, OR AS OTHERWISE SPECIFIED IN DRAWING SCHEDULES. SPACE STUDS 16" O.C. MAX. DEEPER, WIDER, OR BETTER GRADES OF LUMBER MAY BE SUBSTITUTED, ANY OTHER CHANGES MUST BE APPROVED BY THE ENGINEER.
- USE (2) 2"x10" OF #2 OR BETTER WITH FILLER FOR LIGHT FRAMED LOADBEARING WINDOW AND DOOR HEADERS UP TO 6'-0" WIDTH UNLESS NOTED OTHERWISE ON DRAWING. USE NUMBER OF JACK STUDS AND KING STUDS AS REQUIRED IN IRC TABLES R602.7(1)/(2); MINIMUM 2 KINGS AND 2 TRIMS FOR EACH END.
- USE SIMPSON OR EQUIVALENT HARDWARE TO CONNECT GIRDERS OR BEAMS 6' AND LONGER TO STUDS OR POSTS.
- RAKE OVERHANGS ON GABLE ROOF ENDS SHALL BE PROVIDED WITH LOOKOUT BLOCKS (LESS THAN OR EQUAL TO 1' OVERHANGS) OR OUTLOOKERS (MORE THAN 1' AND LESS THAN OR EQUAL TO 2' OVERHANG), SPACED 2' O.C. ALONG ROOF LINE PER WFCM.
- ALL MULTIPLE BEAMS AND HEADERS SHALL BE NAILED USING 2 ROWS OF 16d NAILS @ 12" O.C.
- RIM BOARD TO BE BCI 1-1/8" BY DEPTH OF JOIST, APA PERFORMANCE RATED OSB, OR EQUAL. CONSTRUCT RIM BOARD, FULL PERIMETER AND DOUBLED AT PENETRATIONS SUCH AS STAIRWAY AND MECHANICAL VENT PASSAGEWAYS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- ALL POINT LOADS SHALL BE SOLID BLOCKED THROUGH TO THE FOUNDATION.
- CONTRACTOR SHALL FOLLOW THE MINIMUM FASTENING SCHEDULE LISTED IN [IRC TABLE R602.3\(1\)](#).
- STAIR STRINGERS SHALL BE 1-1/4" VERSA-LAM 1.4 1800 OR EQUAL. USE 3-STRINGER CONFIGURATION AND INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
- FLOOR SHEATHING SHALL BE ¾" T&G WAFER BOARD OR OSB, APA RATED 24/16 MINIMUM, NAILED w/ 8d NAILS @ 3" O.C. ON DIAPHRAGM EDGES, 6" O.C. ON OTHER PANEL EDGES, AND @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. GLUE ALONG ALL JOISTS, LEDGERS AND RIMBOARDS. [IRC R303](#)
- INSTALL SOLID JOIST BLOCKING AT ALL BEARING LOCATIONS.
- BASE PLATES TO BE TREATED LUMBER OR REDWOOD, PLACED OVER FOAM, w/ NOT MORE THAN 2 EA. 2x4 OR 3 EA. 2x6 STACKED PLATES.
- INSTALL FLOOR SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO FRAMING WITH END JOINTS STAGGERED.
- INSTALL DOUBLE FLOOR JOISTS UNDER ALL LOAD BEARING WALLS RUNNING PARALLEL WITH FLOOR JOISTS.

TRUSS & ROOF SHEATHING NOTES

- ROOF AND FLOOR TRUSSES SHALL BE DESIGNED TO MEET THE LOADS SPECIFIED IN THE DESIGN CRITERIA. ALL TRIBUTARY, DRIFT, UNBALANCED SNOW, MECHANICAL, ETC., LOADS SHALL BE CONSIDERED IN THE DESIGN. [IRC R502.11 & R802.10](#)
- ENGINEERED TRUSS SUBMITTALS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF UTAH. [IRC R802.10](#)
- IN GENERAL, ROOF TRUSSES SHALL GENERAL BE SPACED AT 24" O.C. FLOOR TRUSSES SHALL BE SPACED AT 16" O.C. TRUSS SPACING MAY BE DECREASED AT THE DISCRETION OF THE TRUSS ENGINEER.
- CONTRACTOR SHALL BLOCK BETWEEN TRUSSES AND CONNECT EACH TRUSS TO WALL TOP PLATE WITH (SEE ICF NOTE 18) OR AS OTHERWISE SPECIFIED ON DRAWINGS.
- ANY CHANGES TO THE TRUSS CONFIGURATION SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
- FASTEN OUTLOOKERS TO GABLED WALLS WITH (SEE ICF NOTE 18) CONNECTORS.
- ROOF SHEATHING SHALL BE MULTI-SPAN, 4"x8", APA RATED, EXTERIOR GRADE, OSB OR PLYWOOD SHEETS. APA RATINGS AND EXPOSURE TYPE SHALL BE STAMPED ON EACH SHEET DELIVERED TO JOB SITE. NAIL SHEATHING w/ 8d @ 4" O.C., ¾" FROM EDGE OF PANEL AT ALL PANEL ENDS, SUPPORTED EDGES, SHEARWALL EDGES, SHEARWALL TOPS AND ALL BLOCKING MEMBERS. NAIL @ 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS (FIELD). EDGE SUPPORT (e.g., H-CLIPS) IS RECOMMENDED BUT NOT REQUIRED FOR 24" TRUSS SPACING. FOLLOWING SHEATHING SELECTIONS ARE BASED UPON TRUSS SPACING OF 24" O.C., 10 PSF MAXIMUM ROOFING MATERIAL WEIGHT, AND PROJECT SNOW LOADS SHOWN IN DESIGN CRITERIA. IT IS SUGGESTED THAT THE LARGER THICKNESS IN EACH CATEGORY BE USED FOR BEST LONG-TERM ROOF APPEARANCE. OTHER MATERIAL OPTIONS MAY BE SUBMITTED BY CONTRACTOR AND APPROVED BY ENGINEER. LARGER DIMENSION MATERIALS MAY BE USED AT CONTRACTOR'S DISCRETION. [IRC R503.2 & IRC 2303](#)
7.1. Up to 45 PSF SL - USE APA 24/16 (7/16", 1/2") MINIMUM
7.2. 46-70 PSF SL - USE APA 32/16 (15/32", 1/2", 5/8") MINIMUM
7.3. 71-90 PSF SL - USE APA 40/20 (19/32", 23/32") MINIMUM
- LAY SHEATHING WITH FACE GRAIN AT RIGHT ANGLES TO FRAMING WITH STAGGERED END JOINTS.

FOOTINGS, FOUNDATION & SLABS

- HOME IS DRAWN AS CONCRETE BASEMENT AND LIGHT FRAME MAIN LEVEL. LIGHT FRAME EXTERIOR WALLS ARE TO BE REPLACED WITH 6" NOMINAL INSULATED CONCRETE FORM WALLS. REINFORCEMENT PER ENGINEERING SCHEDULE.
- FOOTINGS AND FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL AND SHALL BE CONSTRUCTED WITH A MINIMUM OF 2,500 PSI (FOOTINGS) AND 3,000 PSI (FOUNDATIONS) CONCRETE. BOTTOM OF FOOTINGS SHALL BE PLACED BELOW DEPTH OF FROST LINE.
- SLABS ON GRADE. BASEMENT AND INTERIOR SLABS ON GRADE (EXCEPT GARAGE) TO BE 2500 PSI 28-DAY STRENGTH. GARAGE SLABS ON GRADE AND STEPS EXPOSED TO WEATHER SHALL BE 3000 PSI 28-DAY STRENGTH, WITH 5-7% AIR ENTRAINMENT BY VOLUME. SLABS PLACED IN HEATED SPACES SHALL HAVE 6 MIL. (1 PERM) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6 INCHES, PLACED BETWEEN CONCRETE FLOOR AND BASE COURSE OR PREPARED SUBGRADE. SLAB ON GRADE TO BE 3-1/2 INCH MINIMUM AND BASE COURSE TO BE 4 INCH MINIMUM OF 1-1/2" COMPACTED AGGREGATE OR SAND UNLESS SHOWN OTHERWISE ON DRAWINGS. [IRC R402.2 & R506](#)
- GARAGE FLOOR. SLOPE GARAGE FLOOR A MINIMUM ⅛" PER FOOT TO FACILITATE LIQUID FLOWS TO A DRAIN OR TO MAIN VEHICLE ENTRY DOORWAY. PROVIDE 6" CONCRETE CRICKET 1" UPSLOPE IN FORWARD CORNERS OF GARAGE TO PREVENT LIQUID ACCUMULATION NEAR MAIN VEHICLE DOOR. [IRC R309](#)
- TOP EDGE OF 6' AND TALLER WALLS TO BE SUPPORTED BY ROOF/FLOOR FRAMING/SLAB BEFORE BACKFILLING.
- THE TOP HORIZONTAL BAR IS TO BE LOCATED IN THE TOP 4", AND ONE HORIZONTAL BAR IN THE BOTTOM 4", AND ALL OTHER BARS ARE TO BE EQUALLY SPACED BETWEEN.
- ANY EARTH FILL TO SUPPORT CONCRETE FLOORS, WALKS, DRIVEWAYS, ETC., MUST BE COMPACTED TO 95% PRIOR TO CONSTRUCTION.
- ALL REINFORCEMENT IS TO BE PLACED IN THE CENTER OF THE WALL UNLESS OTHERWISE NOTED.
- VERTICAL BARS MAY TERMINATE 3" FROM THE TOP OF THE CONCRETE WALL.
- CORNER AND DOWEL REINFORCING IS TO HAVE A MINIMUM LAP LENGTH OF 24".
- ALL REINFORCEMENT @ OPENINGS IS TO BE PLACED WITHIN 2" OF THE OPENINGS AND EXTEND A MINIMUM OF 24" BEYOND THE EDGE OF THE OPENING.
- THE MINIMUM LINTEL DEPTH IS TO BE 2" FOR EACH FOOT OF OPENING WIDTH. THE MINIMUM LINTEL DEPTH IS 8". THE MAXIMUM LINTEL LENGTH IS 6' WITHOUT A SPECIFIC LINTEL CALL-OUT.
- FOUNDATION WALLS IN SEISMIC ZONES D AND ABOVE, SUPPORTING MORE THAN 4' UNBALANCED BACKFILL OR MORE THAN 8' IN HEIGHT SHALL HAVE 2-#4 HORIZONTAL BARS LOCATED IN UPPER 12" OF WALL. [IRC R404.1.4](#)
- ANCHOR BOLTS SHALL BE ½" MINIMUM (¾" IN SEISMIC CATEGORY E & F) OR AS SHOWN ON SCHEDULE, EMBEDDED INTO CONCRETE FOUNDATION AT LEAST 7", AND SHALL BE PLACED NOT MORE THAN 32" O.C. OR AS INDICATED ON SCHEDULES, AND WITHIN 12" OF SILL PLATE ENDS. INSTALL 3"x3"x0.229" WASHERS ON ANCHOR BOLTS w/ STANDARD WASHERS BETWEEN PLATE WASHER AND NUT IN SEISMIC ZONE D, E & F AREAS. [IRC 2308.3](#)
- WATERPROOF ENTIRE EXTERIOR OF FOUNDATION SURFACE BELOW GRADE WITH 2 COATS OF ASPHALT EMULSION. REFER TO ICF NOTES FOR ICF DAMP PROTECTIVE REQUIREMENTS. [IRC R406.1](#)
- SUSPENDED SLABS. ENGINEERING DESIGN IS REQUIRED SPECIFIC TO EACH APPLICATION. SUSPENDED SLABS SHALL BE 4000 PSI 28-DAY STRENGTH CONCRETE. SHORING INSTALLATION AND REMOVAL SHALL BE AS SPECIFIED BY FORM MANUFACTURER. PROTECTIVE EPOXY FINISH SHALL BE PROVIDED IN CORROSIVE ENVIRONMENTS TO INCLUDE VEHICLE STORAGE LOCATIONS.

ELECTRICAL-MECHANICAL NOTES

- HEATING, VENTILATING & AIR CONDITIONING (HVAC). CONTRACTOR TO PROVIDE COMPLETE DESIGN AND INSTALLATION SERVICES TO INSTALL LATEST MARKET TECHNOLOGY HEATER-AIR CONDITIONER. WORK TO COMPLY WITH IRC, INTERNATIONAL MECHANICAL CODE, CURRENT EDITIONS, AND GOOD CONSTRUCTION PRACTICES. PROVIDE COMFORT HEATING SYSTEM CAPABLE OF MAINTAINING 68 DEGREES F AT A POINT 36" ABOVE FINISH FLOOR IN ALL ROOMS. GENERALLY, DO NOT INSTALL EQUIPMENT IN SLEEPING ROOMS OR BATHROOMS-SEE IRC EXCEPTIONS. CONTRACTOR TO PROVIDE HVAC DESIGN AND RESCHECK TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. LOCATIONS SHOWN ON DRAWINGS ARE FOR CONCEPT ONLY AND MAY BE MOVED SUBJECT TO OWNER'S APPROVAL. SUPPLY HEATER-AIR CONDITIONER WITH A SEPARATE BRANCH CIRCUIT.
- SUPPLY/RETURN GRILLES. LOCATE AS DETERMINED BY MECHANICAL SUBCONTRACTOR AND SELECTED BY OWNER.
- DUCTS. INSULATE HEATING TRUNK AND BRANCH SUPPLY DUCTS IN UNFINISHED AREAS, CRAWL SPACES, ATTICS, UNHEATED GARAGES, ETC. DUCTS TO BE PROPERLY SIZED, SEALED, HIDDEN, INSULATED, WELL FASTENED TO STRUCTURE, AND TO HAVE MINIMAL BENDS. DUCT AIR LEAKAGE TESTING SHALL BE REQUIRED IAW IRC N1103.3.3, UNLESS ALL AIR HANDLERS AND AT LEAST 75% OF ALL DUCTS (MEASURED BY LENGTH) ARE LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE (AS EXCEPTED BY UTAH STATE CODE AMENDMENT). [IRC N1103.3](#)
- WASHER & DRYER. PROVIDE BOTH GAS AND ELECTRIC (220 VAC) CONNECTIONS FOR DRYER. INSTALL VINYL OR TILED FLOOR PAN TO CAPTURE WATER UNDER WASHER. VENT DRYER TO NEAREST EXTERIOR SIDE OR REAR WALL. [IRC M1502](#)
- FURNISH AND INSTALL FIREPLACE SELECTED BY OWNER. VENT IAW MANUFACTURER'S INSTRUCTIONS AND IRC.
- INSTALL ELECTRICAL RECEPTACLES, SWITCHES (1-WAY/3-WAY), LIGHTS AND OTHER REQUIRED ELEMENTS TO COMPLY WITH NATIONAL ELECTRIC CODE (NFPA 70), CURRENT EDITION. LOCATIONS SHOWN ON DRAWINGS ARE FOR CONCEPT ONLY. ALL ELECTRICAL WORK AND LIGHTING FIXTURES TO BE U.L. APPROVED. OWNER TO SELECT LIGHTING FIXTURES, SWITCHES, ETC., DURING CONSTRUCTION. INSTALL SWITCH CONTROLLED LIGHTS IN ALL HALLWAYS, STAIRWAYS, EXITS, AND IN EACH ROOM. INSTALL EAVE-MOUNTED "CHRISTMAS TREE LIGHTING" RECEPTACLES, NUMBER AND LOCATIONS AS DIRECTED BY OWNER.
- CABLE TV, PHONE AND DATA DROPS. CONTRACTOR TO INSTALL PORTS FOR THESE SYSTEMS AS SHOWN ON DRAWINGS OR AS DIRECTED BY OWNER. PROVIDE CONNECTION ABILITY IN BASEMENT FOR FUTURE SYSTEMS ADDITIONS.
- APPLIANCE HEIGHT. APPLIANCES HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE FLOOR IN GARAGES. ROOMS OR SPACES THAT ARE NOT PART OF THE LIVING SPACE OF A DWELLING UNIT AND THAT COMMUNICATE WITH PRIVATE GARAGE THROUGH OPENINGS SHALL BE CONSIDERED TO BE PART OF THE GARAGE. [IRC M1307.3](#)
- APPLIANCE IN GARAGE OR CARPORT. SHALL BE PROTECTED FROM IMPACT BY AUTOMOBILES.
- RANGE HOOD. INSTALL VENTED HOOD w/ 4" METAL VENT TO OUTSIDE, OR UL & OWNER APPROVED VENTLESS HOOD.
- PROVIDE SMOKE DETECTORS IN ALL LEVELS, ALL BEDROOMS, ACCESS TO BEDROOMS. DETECTORS SHALL BE HARD-WIRED, INTERCONNECTED, AND HAVE BATTERY BACKUP. INSTALL AS SHOWN AND REQUIRED BY NFPA 72. [IRC R314](#)
- CARBON MONOXIDE (CO) DETECTOR. INSTALL ONE CO DETECTOR ON EACH HABITABLE LEVEL EQUIPPED WITH FUEL BURNING APPLIANCES. CO DETECTORS SHALL BE UL LISTED, COMPLY WITH UL-2034, SHALL BE INSTALLED IAW NFPA 720, AND SHALL BE INTERCONNECTED WITH OTHER ALARM SYSTEMS. [IRC R315 AND UTAH AMENDMENT](#)
- RECEPTACLES SERVING KITCHEN COUNTERTOPS, GARAGES, BATH ROOMS, UNFINISHED BASEMENTS, OUTSIDE AREAS AND OTHER AREAS REQUIRED BY IRC (TO INCLUDE ALL 125-VOLT, SINGLE PHASE, 15 AND 20 AMPERE RECEPTACLES INSTALLED IN LAUNDRY AREAS AND FOR DISHWASHERS) SHALL BE GFCI PROTECTED. IF THE DISHWASHER IS HARDWIRED, THEN GFCI PROTECTION IS STILL REQUIRED, WITH A DISCONNECTING MEANS IN COMPLIANCE WITH TABLE E4101.5. PROVIDE AT LEAST TWO GFCI PROTECTED OUTSIDE-RECEPTACLES AT GRADE LEVEL - ONE IN FRONT AND ONE IN BACK. [IRC E3901 & E3902](#)
- LIGHTS IN BATHUB AND SHOWER AREAS TO COMPLY WITH WET ZONE REQUIREMENTS OF IRC. LIGHTS IN CLOSETS AND CORDED LIGHTS NEAR BATHS AND SHOWERS SHALL COMPLY WITH IRC CLEARANCE DIMENSIONS. [IRC E4003.10 & E4003.11 & E4003.12](#)
- CEILING FANS TO RECEIVE 2x4 WOOD BLOCK BETWEEN CEILING JOISTS OR TRUSSES ABOVE TO ATTACH AND SECURE ELECTRIC BOX.
- LIGHT FIXTURES IN SHOWER AREAS SHALL BE CONSIDERED AS BEING IN WET OR DAMP LOCATIONS AND SHALL BE MARKED "SUITABLE FOR WET LOCATIONS." [IRC E4003.9](#)
- INSTALL 200-AMP ELECTRICAL PANEL MINIMUM, WITH WORKING SPACE OF 30"x36", WITH 6"-6" HEADROOM AND ARTIFICIAL ILLUMINATION. WORKING SPACE SHALL NOT BE DESIGNATED FOR STORAGE. DO NOT INSTALL IN CLOTHES CLOSETS, BATHROOMS, OR OVER STEPS OF STAIRWAYS. [IRC E3405](#)
- PROVIDE EXHAUST SYSTEMS FOR BATHROOMS, KITCHENS AND LAUNDRY FACILITIES AS SPECIFIED IN IRC. EXHAUST SYSTEMS WILL NOT BE RECIRCULATED WITHIN RESIDENCE AND WILL NOT BE VENTED TO ENCLOSED ATTIC SPACE, CRAWL SPACE, ETC., BUT WILL BE VENTED TO THE OUTSIDE. SEE IRC EXCEPTIONS. [IRC SECTION M1501](#)
- PACIFICORP REQUIRES THAT MAIN ELECTRICAL SERVICE ENTRANCE MUST BE LOCATED ON SIDE OF HOUSE AND WITHIN 10' OF FRONT CORNER. SERVICE ENTRANCE CANNOT BE LOCATED OVER A WINDOW WELL OR WITHIN 3' OF GAS METER. PROVIDE A LOCATION FOR GAS AND ELECTRIC METERS IN AN AREA THAT IS PROTECTED FROM SNOW AND ICE DAMAGE.

PLUMBING

- ALL PLUMBING INSTALLATIONS SHALL COMPLY WITH CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE AND UTAH AMENDMENTS.
- PROVIDE WATER CLOSETS WITH A FLOW RATE OF NOT MORE THAN 1.6 GALLONS PER FLUSH. [IRC P2903.2](#)
- PROVIDE SHOWER HEADS WITH A FLOW RATE OF NOTE MORE THAN 2.5 GPM @ 80 psi. [IRC P2903.2](#)
- PROVIDE NON-FREEZE TYPE BACKFLOW PREVENTER HOSE BIBS w/ STOP-AND-WASTE-TYPE VALVE AS REQUIRED. MINIMUM TWO PER STRUCTURE, ONE FRONT & ONE REAR. [IRC P2902.3 & P2903.10](#)
- ALL PLUMBING VENTS PASSING THROUGH THE ROOF TO BE MINIMUM 1-1/4" PIPE, OR AS SIZED BY IRC, AS DIRECT AS POSSIBLE FROM THE MAIN DRAIN TO THE OPEN AIR ABOVE THE ROOF, AND SHALL BE FLASHED. VENTS, STACKS, AND ALL OTHER ROOF PENETRATIONS SHALL BE INSTALLED ON "BACK SIDE" OF ROOF AREA, NOT "FLAG POLED," AND TO THE EXTENT PRACTICAL SHALL NOT BE VISIBLE FROM STREET. [IRC CHAPTER 31](#)
- PROVIDE EXPANSION TANK ON THE CULINARY WATER SYSTEM. [IRC P2903](#)
- PROVIDE LOCATION OF ACCESS AND DISCONNECT SWITCH FOR WHIRLPOOL TYPE TUBS. NO GROUTED TILE ACCESS. [IRC P2720 & F4101](#)
- INSTALL ROUGH-IN SEWER PLUMBING AND CAPS / PLUGS IN BASEMENT FOR FUTURE BATHROOM, KITCHEN AND LAUNDRY FACILITIES SHOWN ON DRAWINGS, OR AS DIRECTED BY OWNER.
- SHOWERS SHALL BE FINISHED TO A HEIGHT OF NOT LESS THAN 72 INCHES ABOVE FINISHED FLOOR WITH NON-ABSORBENT SURFACE MATERIAL. [IRC R307.2](#)
- PROVIDE A FLOOR DRAIN BY THE WATER HEATER. PROVIDE A METAL PAN UNDER WATER HEATERS ON FLOORS THAT CAN BE DAMAGED. INSTALL SEISMIC STRAPS AS REQUIRED BY IRC AND BUILDING OFFICIAL. [IRC CHAPTERS M20 & P28](#)
- PROVIDE 21" CLEARANCE IN FRONT OF WATER CLOSET. SHOW A FULL 30"-WIDE FINISHED SPACE FOR WATER CLOSET. [IRC P307.1 & P2705](#)
- FLOOR DRAINS. SHALL HAVE MINIMUM 2" DIAMETER DRAIN LINE, WITH REMOVABLE STRAINER WITH OPEN AREA OF AT LEAST 2/3(s) CROSS-SECTIONAL AREA OF DRAIN LINE.

GENERAL: WHERE CONFLICT EXISTS BETWEEN ARCHITECTURAL SHEETS AND NOTES ON THIS SHEET OR STAMPED STRUCTURAL SHEETS, THE REQUIREMENTS ON THIS SHEET AND/OR STAMPED STRUCTURAL SHEETS WILL GOVERN.

Client Information

Name: Jerry Hancocck

Project No.: 202005-04

Address/Location: 6508 W 9600 N

Highland, Utah

Issued - 20200626



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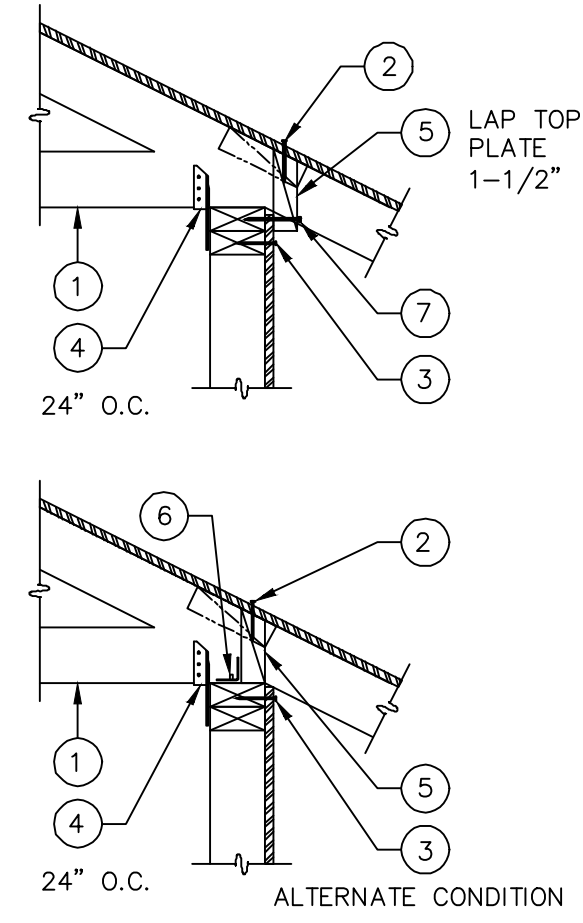
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 2107 East 25 South, Layton, Utah 84040
 801-309-5145 / 801-641-9150

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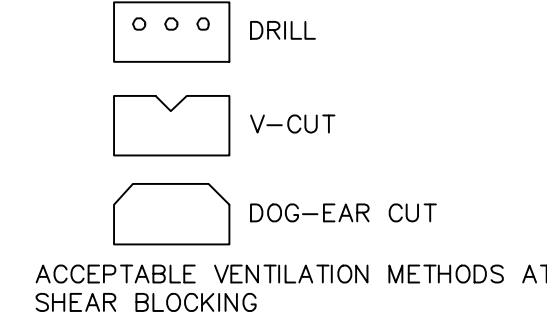
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NOTES

General Notes

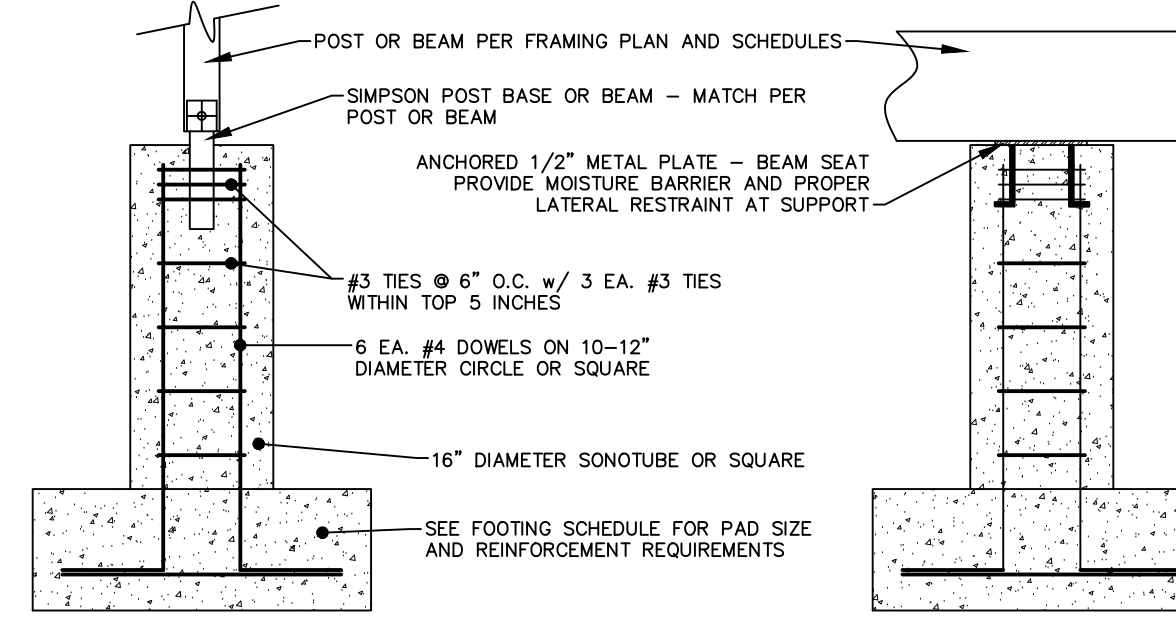


- NOTES:
- ENGINEERED TRUSS PER FRAMING PLAN
 - EDGE NAILING PER ROOF SHEATHING REQUIREMENTS UNO
 - EDGE NAILING PER SHEAR WALL REQUIREMENTS WHERE REQUIRED
 - SIMPSON TIES AS SPECIFIED IN NOTES, INSTALL ON OPPOSITE SIDE OF WALL
 - 2x BLOCKING EACH SPACE, TIP UP EVERY 4TH BLOCK FOR VENTILATION OR MODIFY BLOCK FOR VENT PER OPTIONS BELOW
 - SIMPSON A35 ANCHOR EACH BLOCK OR USE NAILS PER IRC
 - 3 EA. 16d NAILS EACH BLOCK

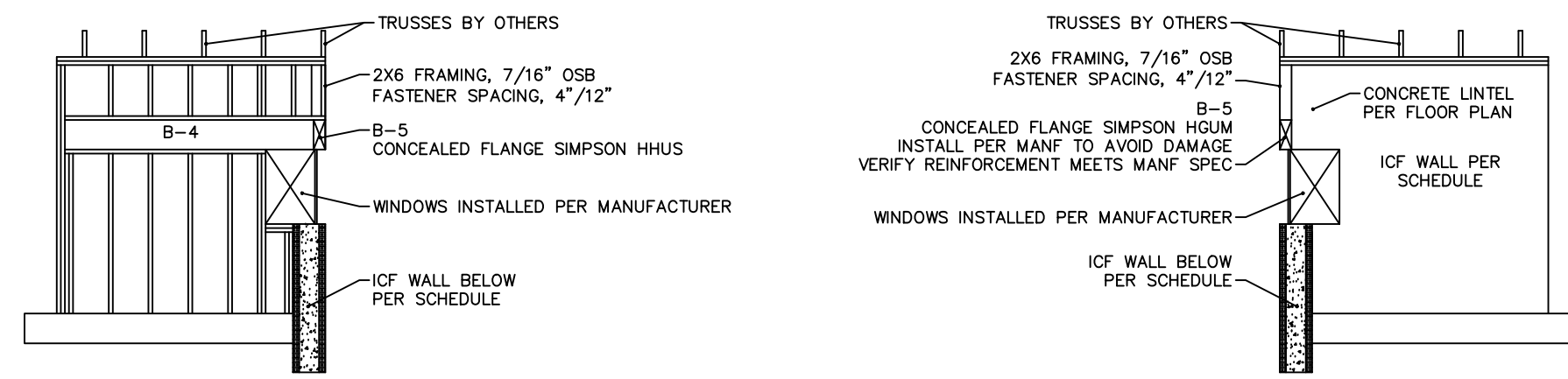


TRUSS BLOCKING DETAILS
NO SCALE

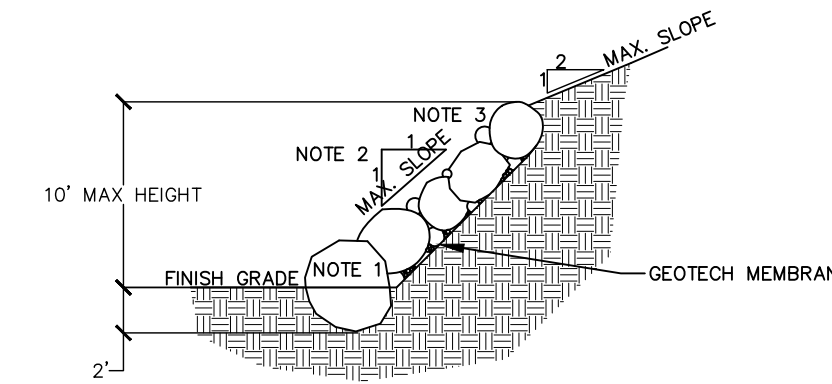
| MARK | WIDTH | LENGTH | THICK | CROSSWISE REINFORCING | | | LENGTHWISE REINFORCING | | | | |
|------|-------|--------|-------|-----------------------|------|----------------|------------------------|------|----------------|-----|-----|
| | | | | No. | Size | Length Spacing | No. | Size | Length Spacing | | |
| P-24 | 24" | 24" | 10" | 2 | #4 | 18" | EQ. | 2 | #4 | 18" | EQ. |
| P-30 | 30" | 30" | 12" | 3 | #4 | 24" | EQ. | 3 | #4 | 24" | EQ. |
| P-36 | 36" | 36" | 12" | 4 | #4 | 30" | EQ. | 4 | #4 | 30" | EQ. |
| P-42 | 42" | 42" | 12" | 5 | #4 | 36" | EQ. | 5 | #4 | 36" | EQ. |
| P-48 | 48" | 48" | 12" | 6 | #4 | 42" | EQ. | 6 | #4 | 42" | EQ. |
| P-60 | 60" | 60" | 14" | 8 | #6 | 54" | EQ. | 8 | #6 | 54" | EQ. |



CONCRETE PIER DETAIL
NOT TO SCALE



LIBRARY CANTILEVERED WALL DETAIL
SCALE: NONE

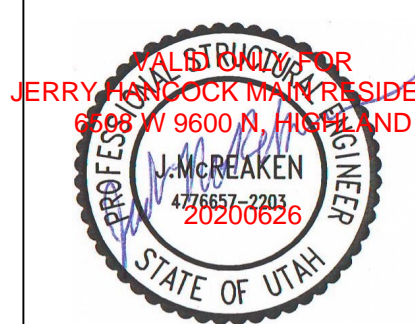


- NOTES:
- ROCKS SHALL BE HARD, DURABLE, ANGULAR, FIELD STONES AND SHALL INTERLOCK WITH ADJACENT ROCKS.
 - ROCKS SHALL BE SET TO NOT EXCEED SLOPE OF 1 TO 1, AS SHOWN.
 - LARGE IRREGULARITIES BETWEEN STONES SHALL BE FILLED WITH ROCK SPALLS OF SUITABLE SIZE RAMMED TIGHTLY INTO PLACE.
 - SOIL SHALL BE COMPACTED WITH MECHANICAL EQUIPMENT TO SATISFACTION OF BUILDING OFFICIAL.
- *** ANY DEVIATION SHALL REQUIRE THE WALL TO BE ENGINEERED.
*** EXCAVATION GRADING PERMIT MUST BE OBTAINED. INSPECTION TO BE MADE ON FIRST ROW AND SUBSEQUENTLY THEREAFTER AS DIRECTED BY BUILDING OFFICIAL.

ROCK RETAINING DETAIL
NOT TO SCALE

Client Information
Name: Jerry Hancock
Project No.: 202005-04
Address/Location: 6508 W 9600 N
Highland, Utah

Issued - 20200626



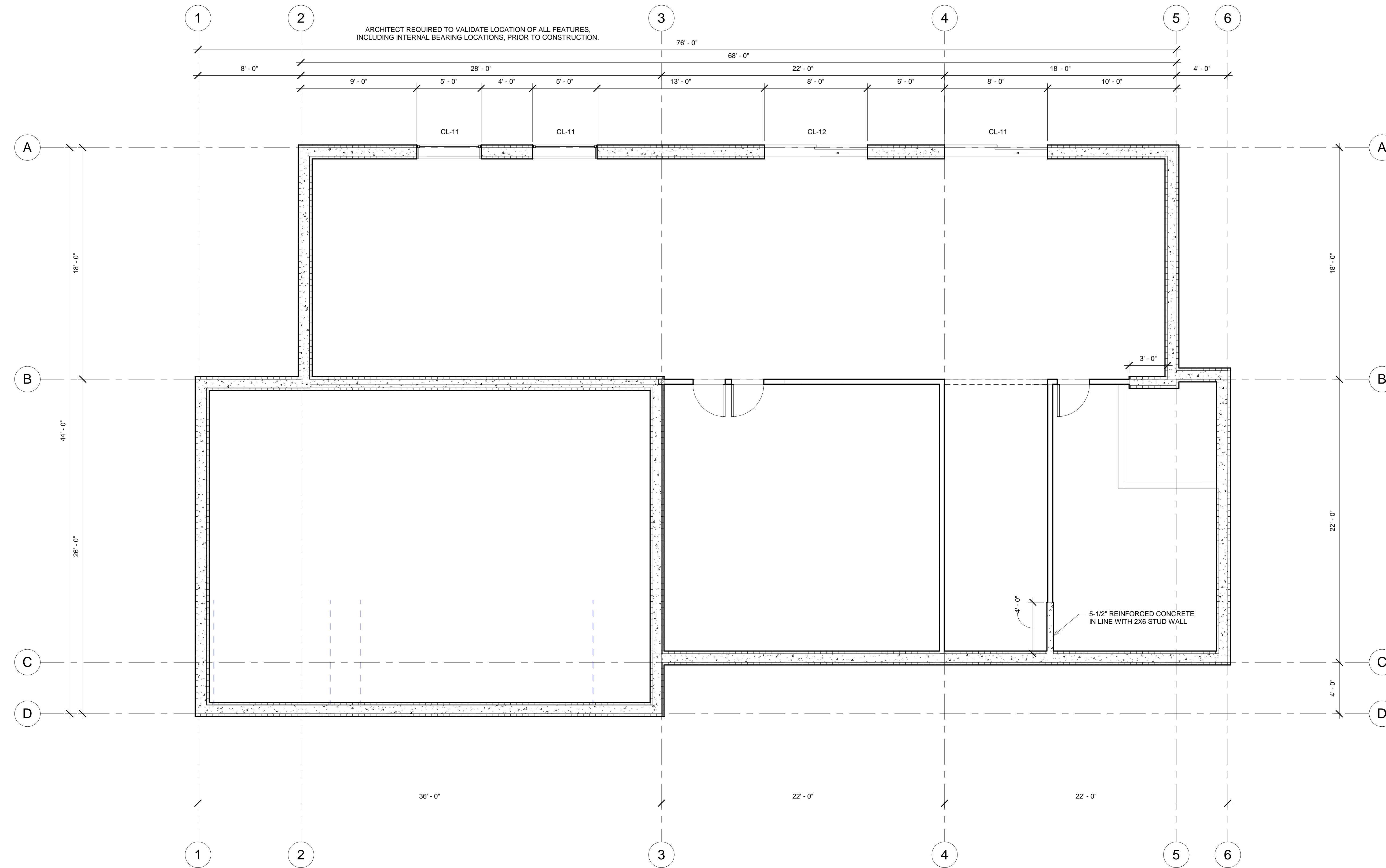
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2107 East 25 South, Layton, Utah 84040
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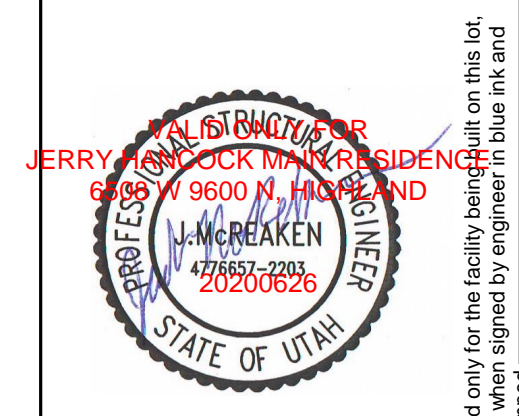
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① Foundation Plan
1/4" = 1'-0"

Project Name
 Owner: Jerry Hancock
 Location: 6508 W 9600 N
 Highland, Utah

Project Number: 202005-04
Issue Date: 6/26/2020

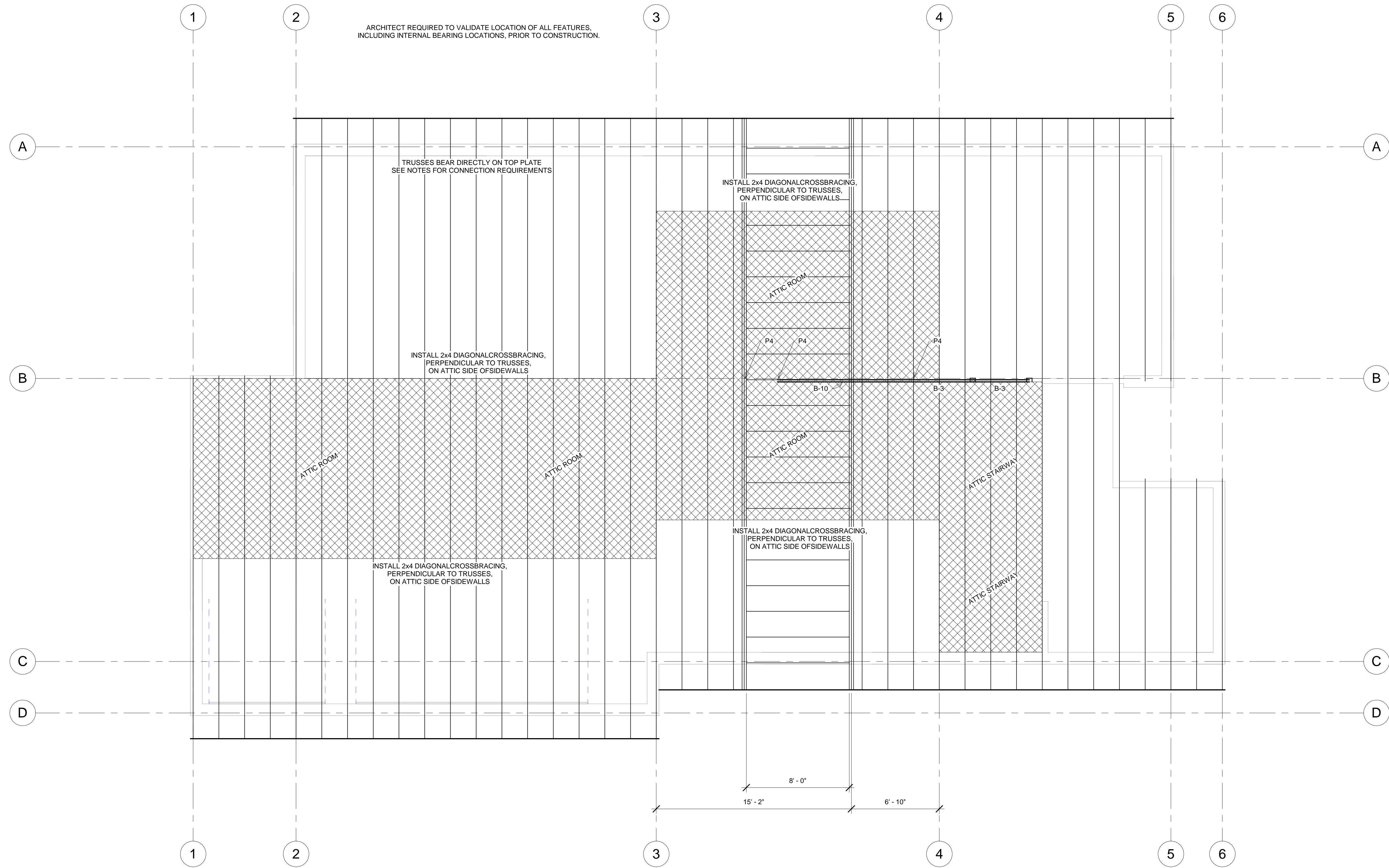


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 2107 East 25 South, Layton, Utah // 801-309-5145

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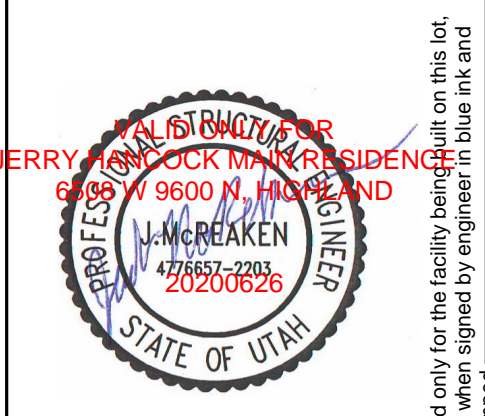
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1 Roof
1/4" = 1'-0"



Project Name
Owner: Jerry Hancock
Location: 6508 W 9600 N
Highland, Utah

Project Number: 202005-04
Issue Date: 6/26/2020



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Sheet S-7
Roof Framing
Plan