LOT 7-YETERANS OYERLOOK

OWNER:	TAYLOR MARSHALL
PROJECT ADDRESS:	LOT 7; YETERANS OYERLOOK
OCCUPANCY CATEGORY:_	R -3
CONSTRUCTION CLASS: _	Y-B
OCCUPANCY LOAD: _	3405/200=17
# OF BEDROOMS	5
ZONING:	R-1
NO. OF PARKING SPACES:	3
AUTOMATIC SPRINKLER SYSTEM:_	YES-13D; FINAL DESIGN BY INSTALLER

GENERAL NOTES

1) APPLICABLE BUILDING CODES: IS 2018 INTERNATIONAL BUILDING CODE(IBC). 2018 INTERNATIONAL BUILDING CODE(IBC) 2018 INTERNATIONAL BUILDING CODE(IBC)

2) CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS AT THE BUILDING SITE BEFORE REPORTED TO THE ENGINEER FOR JUSTIFICATION OR CORRECTION BEFORE PROCEEDING WITH WORK. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ERRORS NOT REPORTED. 3) ALL DIMENSIONS SHALL BE READ OR CALCULATED FROM PLANS. NOT SCALED. 4) DIMENSIONS FOR WINDOWS AND DOORS ARE TO CENTERLINE

CONCRETE & FOUNDATION

1) MINIMUM SOIL BEARING CAPACITY TO BE 2000 PSF. 2) NEW FOOTINGS ARE TO BEAR ON UNDISTURBED NATIVE SOIL, WHERE UNACCEPTABLE MATERIAL OCCURS, EXCAVATE DOWN TO ACCEPTABLE SOIL AND FILL WITH APPROVED 3) MINIMUM COMPRESSIVE STRENGTH OF CONCRETE TO BE:

FOOTINGS & SLABS: 3000 PSI @ 28 DAYS P.I.P. WALLS: 4000 PSI @ 28 DAYS

5) VERIFY ALL ROUGH OPENING DIMENSIONS

4) CONCRETE EXPOSED TO FREEZE/THAM CYCLES TO BE A MAXIMUM OF 0.5 W/C RATIO. 5) NO REPAIRING OF CONCRETE WITHOUT APPROVAL BY ENGINEER. 6) SAWN CONTROL JOINTS IN SLABS TO BE CUT IN ACCORDANCE WITH ACI 302.1R. JOINTS WILL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT.

T) LENGTH TO WIDTH RATIO OF SLABS TO BE NO GREATER THAN 1.5. 8) THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY: ACI 318 (CODE) ACI 304 (PLACING)

ACI 306 (MINTER CONCRETING) ACI 315 (DETAILING) ACI 305 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)

ACI 211.1 (MIX PROPORTIONING) ACI 301 (SPECIFICATIONS) 4) WATER REDUCING AND AIR ENTRAINING AGENTS MAY BE INCLUDED IN DESIGN MIXES. SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTOR'S OPTION.

1) REINFORCING STEEL: ASTM A 615, GRADE 60.

2) WELDED WIRE FABRIC: ASTM A 185 (FLAT SHEETS), MINIMUM YIELD STRENGTH OF 70,000

A. CONCRETE CAST DIRECTLY AGAINST EARTH .. 3"

B. INTERIOR SLABS C. INTERIOR BEAMS .. D. SLABS ON GRADE .

4) WHERE SPLICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN MASONRY AND 40 BAR DIAMETERS IN CAST CONCRETE. 5) REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED 6) LAP ALL WELDED WIRE FABRIC A MINIMUM DISTANCE OF ONE CROSS WIRE SPACING PLUS 2 $\,$

T) ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE. SUPPORTING ACCESSORY LEGS THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL.

CONCRETE FORMWORK

 ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ALL LOADS IMPOSED INCLUDING THE MET MEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT 2) RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, ALL FORMS, SHORES, BACKSHORES FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE.

3) TOLERANCES: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK

SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS.

POST INSTALLED ANCHORS

1) POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD (EOR) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSINGS OR MISPLACED ANCHORS. 2) CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.

I) FOR CMU WALL REINFORCEMENT REQUIREMENTS REFER TO APPLICABLE STRUCTURAL SHEETS 2) FOR CMU LATERAL SUPPORT REQUIREMENTS REFER TO APPLICABLE CODE REQUIREMENTS 3) CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. 4) MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.

5) PLAIN END TWO CELLED UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.

T) MASONRY BOND BEAMS AND CONCRETE TIE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO AS TO KEY AND BOND INTO BLOCK CELLS. THE USE OF BUILDING PAPER OR SHEET PLASTIC TO CLOSE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF

8) MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS.

9) BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS, OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS.

STRUCTURAL STEEL) MATERIALS: M-SHAPES & MT-SHAPES.

C-SHAPES & MC-SHAPES .. ANGLES & PLATES ASTM A36 .. ASTM A500. GRADE E HSS SHAPES..... ... ASTM A53 (TYPE E OR S), GRADE B STEEL PIPE.... HIGH STRENGTH BOLTS ASTM A307 MACHINE BOLTSASTM F1554, GRADE 55 TYPE S1(UNO) ANCHOR RODS..

WELDED HEADED STUDS ASTM A108 DEFORMED BAR ANCHORS... ... ASTM A496 WELDING ELECTRODES AMS D1.1, E70 SERIES 2) ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS AND COLUMN BASE PLATES. 3) TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE

4) ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 3/16" FILLET WELD

METAL CONNECTORS & FASTENERS ALL FASTENERS(NAILS, BOLTS, SCREMS, ETC,) ATTACHING TO PRESSURE TREATED LUMBER TO BE HOT DIPPED ZINC COATED GALVINIZED G185(HDG) AS PER ASTM A 153. 2) ALL METAL CONNECTORS ARE SIMPSON OR EQUAL. ALL METAL CONNECTORS ATTACHING TO PRESSURE TREATED LUMBER

FRAMING NOTES

TO BE ZINC COATED AS PER ASTM A 653.

) ALL DIMENSIONS ARE TO FRAMING WALL, NO CENTERLINE DIMENSIONS 2) WINDOW SIZES ARE IN FEET-INCHES 3) DOOR SIZES ARE IN FEET-INCHES 4) ALL INTERIOR DOORS ARE 6'-8" TALL UNLESS NOTED OTHERWISE 5) ALL EXTERIOR WALLS TO BE 2 X 6 UNLESS NOTED OTHERWISE 6) ALL INTERIOR WALLS TO BE 2 X 4 UNLESS NOTED OTHERWISE I) IF DOOR LOCATION IS NOT DIMENSIONED THEN IT IS 4 1/2"

TO START OF RO FROM INTERSECTING WALL. δ) THE NUMBER OF TREADS AND RISERS ARE BASED UPON ASSUMED FLOOR ELEVATION DIFFERENCES. ACTUAL SITE CONDITIONS MAY BE DIFERENT AND CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL TREAD & RISER DESIGN. 9) BALLOON FRAME ALL WALLS EXCEEDING ONE STORY IN HEIGHT WHERE LATERAL FRAMING DOES NOT PROVIDE MID-HEIGHT BRACING. 2 X 6 STUDS SHOULD BE USED

10) ALL EXTERIOR & INTERIOR CORNERS SHALL BE BRACED AS REQUIRED BY APPLICABLE 1) DO NOT CUT FRAMING MEMBERS WITHOUT REINFORCING MEMBER BACK TO ORIGINAL CAPACITY OR AS DIRECTED BY MANUFACTURER.

A-2 ELEVATIONS MAIN LEVEL/LOWER LEVEL FLOOR PLAN UPPER LEVEL FLOOR PLAN FOUNDATION PLAN 5-2 SECTIONS 5-3 DETAILS 5-4 FLOOR JOIST PLAN S-5 CEILING JOIST/ROOF PLAN S-6 DECK PLAN MEP-1 DRAIN & VENT RISER MEP-2 HVAC PLAN

DRAWING INDEX

SITE PLAN

ELEVATIONS

ORTHOGRAPHICS

COVERSHEET/GENERAL NOTES

SHEET

A-0

C-1

ACRONYMS LEGEND RO - ROUGH OPEING PIP- POURED IN PLACE PIA - POST INSTALLED ANCHOR PFF- PRE FABRICATED FIREPLACE FFE- FINSHED FLOOR ELEVATION DH- DOUBLE HUNG SH- SINGLE HUNG MH- MATER HEATER CSMT- CASEMENT TMPD- TEMPERED EOR- ENGINEER OF RECORD CH- CEILING HEIGHT TOW-TOP OF WALL MSV- MANUFACTURED STONE VENEER

EPOXY DOWEL INSTALLATION NOTES

THE FOLLOWING INFORMATION INCLUDES THE MINIMUM REQUIREMENTS FOR INSTALLATION OF EPOXY DOWELS (POST INSTALLED DOWEL BAR BONDED TO CONCRETE WITH AN EPOXY ADHESIVE DESIGNED FOR SUCH USE). FOLLOW ALL MANUFACTURER'S SPECIFIC REQUIREMENTS FOR INSTALLATION. WHERE CONFLICTS ARISE BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND THE INFORMATION PROVIDED BELOW, THE MANUFACTURER'S INSTRUCTIONS SHALL APPLY. THE EPOXY ADHESIVE SHALL BE A TWO PART EPOXY MEETING THE REQUIREMENTS OF ASTM C881, TYPE IV, GRADE 3, CLASS A, B, C. CLASS A IS FOR USE WHEN THE HARDENED CONCRETE IS BELOW 40° F WITH THE LOWEST ALLOWABLE TEMPERATURE AS DEFINED BY THE MANUFACTURER OF THE PRODUCT. CLASS B IS FOR USE BETWEEN 40' AND 60' F AND CLASS C IS FOR USE ABOVE 60' F WITH THE HIGHEST ALLOWABLE TEMPERATURE AS DEFINED BY THE MANUFACTURER.

1. DRILL HOLE TO REQUIRED DEPTH. GENERALLY 1/16-INCH LARGER IN DIAMETER THAN THE DIAMETER OF THE DOWEL, HOWEVER FOLLOW THE MANUFACTURER'S REQUIREMENTS FOR HOLE SIZE.

2. CONCRETE SHALL BE A MINIMUM OF 7 DAYS OLD PRIOR TO INSTALLATION UNLESS SPECIFICALLY STATED OTHERWISE BY THE MANUFACTURER.

3. HAVE EXTRA DRILL BITS AVAILABLE AS THEY DULL QUICKLY IF THEY ENCOUNTER REBAR OR VERY

4. CLEAN HOLE SEVERAL TIMES WITH A BRUSH OF APPROPRIATE DIAMETER AND COMPRESSED AIR. IT GENERALLY TAKES ABOUT 3 REPETITIONS TO REMOVE ALL DUST FROM THE HOLE. AN EXTENSION FOR THE AIR NOZZLE

5. INSERT 2-PART EPOXY ADHESIVE PACK INTO APPROPRIATE DISPENSER.

6. INSTALL MIXER NOZZLE TO 2-PART EPOXY ADHESIVE. EXTRA NOZZLES ARE ADVISED SINCE THEY ARE UNUSABLE IF THE MATERIAL HARDENS IN THE NOZZLE.

7. DISCARD THE FIRST AMOUNT DISPENSED UNTIL THE MATERIAL IS WELL MIXED COMING OUT OF THE NOZZLE. 8. INJECT EPOXY ADHESIVE FROM THE BACK OF THE HOLE WITHOUT FORMING AIR VOIDS. SLOWLY WITHDRAW THE MIXER WITH EACH TRIGGER PULL. FILL HOLES APPROXIMATELY 2/3 FULL, OR AS REQUIRED TO ENSURE THAT THE ANNULAR GAP BETWEEN THE DOWEL AND THE CONCRETE IS COMPLETELY FILLED WITH EPOXY ADHESIVE ALONG THE ENTIRE DEPTH OF THE HOLE. AFTER INJECTION IS COMPLETE, DEPRESSURIZE THE DISPENSER TO PREVENT FURTHER DISCHARGE FROM THE MIXER.

9. INSERT CLEAN DOWEL/REBAR INTO HOLE. BE SURE THE DOWEL IS DRY AND FREE OF OIL AND OTHER CONTAMINANTS. TO EASE INSTALLATION, THE DOWELS MAY BE SLOWLY TWISTED AS THEY ARE INSERTED. AFTER INSTALLATION, THE ANNULAR GAP MUST BE COMPLETELY FILLED WITH EPOXY ADHESIVE.

10. OBSERVE THE MANUFACTURER'S GEL TIME, WHICH VARIES ACCORDING TO TEMPERATURE OF THE BASE MATERIAL. MINOR ADJUSTMENTS TO THE DOWEL/REBAR POSITION MAY BE PERFORMED DURING THE GEL TIME.

11. ONCE THE GEL TIME HAS ELAPSED, DO NOT DISTURB THE DOWEL UNTIL THE CURING TIME HAS ELAPSED. DOWELS SHALL BE FIRMLY SUPPORTED DURING THE CURING TIME.

12. APPLY TORQUE AFTER THE CURE TIME HAS PASSED AND THE FIXTURE TO BE ATTACHED HAS BEEN POSITIONED (IF BOLTING ON AN ITEM TO THE DOWEL).

HYAC NOTES

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL MECHANICAL CODE (GOVERNING EDITION), ALL LOCAL CODES, AND OTHER REGULATIONS GOVERNING WORK OF THIS NATURE

4. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL"BY ENGINEER OR ARCHITECT

. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES

2, USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 6 LINEAL FEET PER RUN, 3. CONTRACTOR SHALL TAKE CARE NOT TO KINK OR COLLAPSE FLEXIBLE DUCT. REFRIGERANT PIPING

CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A MANNER AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULLATION.

DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. DUCTWORK SHALL BE THE LOW VELOCITY TYE, UNLESS SPECIFIED OTHERWISE. THE CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON THE DRAWINGS.

3 ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS 4. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM

ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE

5. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED. ALL CONCEALED INTERIOR DUCTWORLK SHALL BE INSULATED WITH MINIMUM R-6 FIBERGLASS INSULATIN BLANKET WITH ALUMINUM FOIL FACING, ALL EXTERIOR DUCTS SHALL BE INSULATED WITH MINIMUM R-8, 8. ALL SUPPLY AND RETURN DUCTWORK 8 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH 1/2°ACOUSTICAL DUCT LINER.

CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES A MINIMUM OF 1 INCH PER 10 FEET OF RUN. CONDENSATE LINES SHALL DISCHARGE TO GRADE

1, CONSTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQURIED,

. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT,

PIPE SUPPORTS ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER, THE USE OF WIRE OR METAL STRAPS TO SUPPORT PIPES WILL NOT BE PERMITTED, SPACING OF PIPE SUPPORTS SHALL NOT EXCESE DEIGHT (8) FEET FOR ALL PIPING EXCEPT PLASTIC PIPING SHALL BE SUPPORTED EVERY FOUR (4) FEET.

ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.

2. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATIONS.

ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROTHE DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

PLUMBING NOTES

PLUMBING NOTES

RS-ROUGH SAMN

RA-RETURN AIR

AH-AIR HANDLER

R-ROUND

THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE VORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE

GOVERNING EDITION), ALL LOCAL CODES, AND OTHER REGULATIONS GOVERNING WORK OF THIS NATURE. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETRMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL"BY ENGINEER OR

PERMITS 1. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES,

DOMESTIC WATER SUPPLY PIPING

UNDERGROUND; PROVIDE THE "K"SOFT DRAWN COPPER TUBING WITH BRAZED ABOVE GROUND: PROVIDE "PEX"TUBING WITH APPROVED FITTINGS OR TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS

COPPER OR BRASS FITTINGS, ALL SOLDER TO BE "NO LEAD" ALL HOT WATER PIPING TO BE INSULATED WITH 1"FOAM INSULATION.

ALL COLD WATER PIPING TO BE INSULATED WITH 3/8"FOAM INSULATION. SANITARY/STORM DRAINAGE AND VENT PIPING

2"AND BELOW: SCH. 40 PVC WITH SOLVENT WELD JOINTS, SCH. 40 GALV STEEL WITH THREADED JOINTS, OR DWV COPPER WITH

SOLDERED JOINTS.
3"AND ABOVE: SCH. 40 PVC WITH SOLVENT WELD JOINTS, OR SERVICE WEIGHT CAST IRON WITH NO-HUB OR BELL SPIGOT JOINTS

BELOW GRADE: SCH 40 PVC WITH SOLVENT WELD JOINTS PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL BE PROPERLY FIRE-STOPPED AT ALL PENETRATIONS OF RATED WALLS, CEILINGS AND FLOORS. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG RADIUS FITTING

DRAINAGE PIPING 3"SIZE AND SMALLER SHALL BE RUN AT A UNIFORM GRADE OF NO LESS THAN 1/4" PER FOOT DRAINAGE PIPING 3 SIZE AND SMALLES FINAL BE RONAL A UNIFORM GRADE OF NO LESS THAN 1/8" PER FOOT.
ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES, CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH

ALL STUB-INS AND/OR SLAB OR WALL PENETRATIONS TO BE PER STANDARD PLUMBING CODE, ALL PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS SHALL BE SLEEVED,

ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER, THE USE OF WIRE AND PREFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED, SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN THE STANDARD PLUMBING CODE,

EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO ENSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.

- INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE AT ANY POINT.

EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM 30"OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM 24"COVER.

GAS PIPING

PIPE SUPPORTS

GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL, ASTM-A-53, WITH HTREADED MALLEABLE IRON FITTINGS. ALL EXTERIOR PIPING SHALL BE PAINTED FOR CORROSION PROTECTION. COLOR BY OWNER. GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE SBCCI GAS CODE, NFPA-54, & THE LOCAL GAS WHERE PIPING CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE SUPPLY LINE, A 100% SHUT-OFF GAS COCK AND UNION,

4. ALL PENETRATIONSOF GAS PIPING THRU SLABS AND FOUNDATION WALLS SHALL BE SLEEVED WITH PVC PIPE,

COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATIONS. THESE DRAWINGS MAY HAVE BEEN ENLARGED/REDUCED IN SIZE. DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS, VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE, THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT THE PLUMBING PLANS ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS

OR ALL DETAILS OF EQUIPMENT, THE CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS OF EQUIPMENT PROPOSED TO ENSURE ALL EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE

1. ALL MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM

HE DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE

CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED,

TEMPERED GLASS REQUIREMENTS

R308.4.6 Glazing adjacent to stairs and ramps. Glazing where the bottom exposer edge of the glazing is less than 36 inches (914 mm) above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps shall be to 965 mm) above the walking surface. The rail shall be capable of withstanding a horizontal load of 50 pounds per linear foot (730 N/m) without contacting the glass and have a cross-sectional height of not less than 11/2 inches (38 mm).

2. Glazing 36 inches (914 mm) or more measured horizontally from the walking surface.

R308.4.7 Glazing adjacent to the bottom stair landing.
Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches (914 mm) above the landing and within a 60-inch (1524 mm) horizonta arc less than 180 degrees from the bottom tread nosing shall be considered to be a hazardruse location. nazardous rocarion. The glazing is protected by a *guard* complying with Section R312 and the plane of the glass is more than 18 inches (457 mm) from the *guard*.

LANDING 80

R308.4.3 Glazing in windows. Glazing in an individual fixed or operable panel that meets all of the following conditions shall be considered to be a hazardous location 1. The exposed area of an individual pane is larger than 9 square feet (0.836 m2), bottom edge of the glazing is less than 18 inches (457 mm) above the floor 3. The top edge of the glazing is more than 36 inches (914 mm) above the floor; and 4. One or more walking surfaces are within 36 inches (914 mm), measured horizontally and in a straight line, of the glazing.

R308.4.5 Glazing and wet surfaces. Glazing in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and indoor or outdoor swimming pools where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface shall be considered to be a hazardous location. This shall apply to single glazing and each pane in multiple glazing.

Exception: Glazing that is more than 60 inches (1524 mm), measured horizontally and in a straight line, from the water's edge of a bathtub, hot tub, spa, whirlpool or swimming pool or from the edge of a shower, sauna or steam room.

ELECTRICAL NOTES

ELECTRICAL NOTES

I. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.

THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL
DETRMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK, NO ALLOWANCE SHALL BE MADE
IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATION.

4. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITEC

1, THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES,

1. EVERY COIL OF WIRE TO BE USED SHALL BE IN THE ORIGINAL PACKAGING AND BEAR THE U.L. LABEL. 2. PROVIDE WALL SWITCHES, RECEPTACLES, SPECIAL OUTLETS, ETC., AS SPECIFIED ON THE DRAWINGS.

CONDUIT INSTALLED UNDERGROUND OR WITHIN CONCRETE SHALL BE SCHEDULE 40 PVC. ALL TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE SHALL BE MADE WITH RIGID STEEL ELBOWS.

3. CONDUIT OVER 2"IN DIAMETER OR MEETING ONE OF THE PRIOR EXCEPTIONS SHALL BE RIGID STEEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, SIZE CONDUIT ACCORDINGLY TO ACCOMMODATE THIS CONDUCTOR,

5. MINIMUM SIZE OF ALL EMT CONDUIT SHALL BE 1/2". MINIMUM SIZE OF ALL OTHER CONDUIT SHALL BE 3/4". 6. CONTRACTOR MAY OPT TO USE TYPE NMB CABLE FOR CONCEALED LINE-VOLTAGE WIRING. ELECTRICAL SERVICE SYSTEM

THE CHARACTERISTICS OF THE ELECTRIC SUPPLY TO THE BUILDING SHALL BE 120/240-VOLTS/1-Ø/3-WIRE POWER TO THE BUILDING SHALL BE SUPPLIED BY THE LOCAL ELECTRIC UTILITY. COORDINATE WITH THE LOCAL ELECTRIC UTILITY, PROVIDE INSTALLATION IN ACCORDANCE WITH THE LOCAL ELECTRI UTILITY'S REQUIREMENTS INCLUDING DETAILS, PREFERRED ROUTING, AVAILABLE VOLTAGE, ETC.

I, DIRECTORIES SHALL BE TYPE-WRITTEN, INSTALL WHERE INDICATED ON THE DRAINGS, 1-0/3-WIRE PANELS OR SWITCHBOARDS, MOUNTED IN ENCLOSING CABINETS CONTAINING EQUIPMENT SPECIFIED IN THE "PANELBOARD SCHEDULE". 2. PROVIDE CONTACTORS CONTROLLED BY PHOTOCELL AND/OR TIME CLOCK WHERE INDICATED ON THE DRAWINGS

LIGHTING AND POWER PANELS SHALL BE FLUSH OR SURFACE MOUNTED, "PLUG-IN"CIRCUIT BREAKER TYPE SINGLE PANEL BOXES SHALL BE 14"X3 3/4". USE COMMON-TRIP FOR MULTI-POLE CIRCUIT BREAKERS WHERE INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY THE LOCAL ELECTRIC UTILITY. 4. ALL PANELS SHALL HAVE A COPPER BUS AND GROUND BAR. ALL CIRCUIT BREAKERS USED TO SERVE PACKAGE-TYPE AIR CONDITIONING EQUIPMENT SHALL BE U.L, LISTED "HACR" WHERE APPLICABLE. PROVIDE SHUNT-TRIP CIRCUIT BREAKERS AND SHUNT-TRIP SWITCHES WHERE INDICATED ON THE DRAWINGS, OR REQUIRED BY GOVERNING BODIES.

1. ALL FIXTURES SHALL BE U.L. APPROVED.

2. ALL LIGHTING FIXTURES SHALL BE WARRANTED. 3. CONDUCTORS WITHIN FLUORESCENT FIXTURES SHALL BE A MINIMUM #18 AWG STRADED WITH TYPE CF

 FLUORESCENT LAMPS SHALL BE 3500K, 85 CRI. EACH BALLAST SHALL BEAR THE CBM SEAL OF APPROVAL AND SHALL BE U.L. CLASS P. FLUORESCENT BALLASTS SHALL BE ELECTRONIC,

6. INSTALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1. ALL CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER AND THOROUGHLY INSULATED. ALL INSULATION (600-VOLT) SHALL BE THHN OR THWN. ALL CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.

3. MINIMUM SIZE OF CONDUCTOR FOR LINE-VOLTAGE WIRING SHALL BE #12 AWG. SIZE CONDUCTORS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE TO PREVENT EXCESSIVE VOLTAGE DROP.

 ${\bf 1.} \ \ {\bf ALL\ JUNCTION,\ OUTLET,\ SWITCH,\ RECEPTACLE\ AND\ PANELBOARD\ BOXES\ SHALL\ BE\ GALVANIZED.}$ 2, CEILING OUTLET BOXES SHALL BE 4"OCTAGONAL BY 2 1/8"OR 3 1/2" DEEP WITH A FIXTURE STUD WHERE

REQUIRED BY CODE.

3. WHERE TWO (2) OR MORE DEVICES ARE INDICATED GROUPED TOGETHER, THEY SHALL BE GANG-MOUNTED.

JUNCTION BOXES SHALL BE 4"X2 1/8"X 1 1/2" WITH A RAISED 4"SQUAE X 1 1/2"/2 1/8"/3 1/2" WHERE REQUIRED BY CODE.

1. RECEPTACLES SHALL BE 20-AMP, 3-WIRE, GROUNDED.

GROUND-FAULT RECEPTACLES SHALL BE 20-AMP, 3-WIRE, GROUNDED, CONTRACTOR MAY OPT TO USE FEED THROUGH OUTLETS, AS LONG AS CURRENT LEAKAGE DOES NOT CAUSE FALSE TRIPPING. 3. SWITCHES SHALL BE 20-AMP, 120/277-VOLT SINGLE-POLE, 3-WAY OR 4-WAY.

4. PLATES SHALL BE COLORED NYLON (FINISH TO MATCH DEVICES).

 ALL WIRING SHALL BE CONTINUOUS FROM OUTLET BOX TO OUTLET BOC, FROM OUTLET BOX TO PULL OR JUNCTION BOX PRESSURE CONNECTORS SHALL BE USED FOR CONDUCTORS #10 AWG AND LARGER, NO JOINTS OR SPLICES SHALL BE PULLED INTO CONDUIT. 2. ALL LOCKNUTS SHALL BE DRAWN-UP TIGHT, TO EFFECTIVELY GROUND BOXES TO CONDUIT.

ALL BENDS IN CONDUIT SHALL BE MADE WITH A CONDUIT BENDER; BENDS WHICH CHANGE THE CROSS-SECTIONAL AREA OF THE CONDUIT ARE NOT ACCEPTABLE. 4. ALL SURFACE-MOUNTED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE

 SEAL ALL CONDUITS PENETRATING FIRE-RATED BARRIERS WITH "3M"OR APPROVED EQUAL, FIRE-RATED SEALANTS. INSTALL DEVICES IN ACCORDANCE WITH MANURACTURER'S RECOMMENDATIONS. GROUND DEVICES IN STRIC ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE

2018 INTERNATIONAL PLUMBING CODE

2018 NFPA 101 LIFE SAFETY CODE

2018 INTERNATIONAL FIRE CODE

2017 NFPA 70

Building Standards

Fire Resistance

Design Loads

FLOOR, 2nd:

SLEEPING AREAS: INTERIOR STAIRS:

EXTERIOR DECKS:

EXTERIOR WALLS: 0 HR.

INTERIOR WALLS 0 HR.

ROOF CONSTRUCTION: 0 HR.

FLOOR CONSTRUCTION: 0 HR.

THE INT'L. RESIDENTIAL CODE (IRC).

SECTION R301 OF THE IRC.

RECOMMENDED DETAILS & INSTRUCTIONS

ALL MATERIALS USED ARE TO BE INSTALLED IN STRICT

20 PSF LIVE + 10 PSF DEAD 40 PSF LIVE + 10 PSF DEAD

40 PSF LIVE + 10 PSF DEAD

30 PSF LIVE + 10 PSF DEAD

40 PSF LIVE + 10 PSF DEAD

60 PSF LIVE + 10 PSF DEAD

*REFER TO SNOW LOAD & WIND LOAD PER SECTION R301 OF

SEISMIC LOADING TO BE BASED ON REQUIREMENTS OF

2018 INTERNATIONAL RESIDENTIAL CODE

2018 INTERNATIONAL MECHANICAL CODE

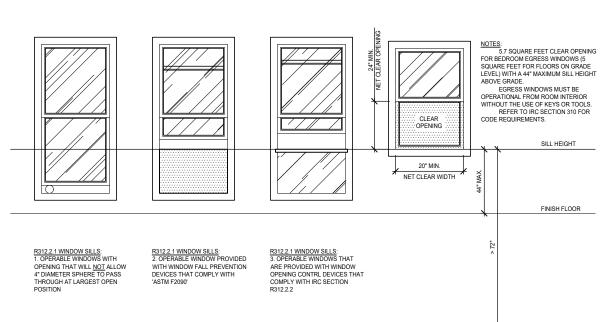
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ATTIC ACCESS HATCHES & DOORS MUST BE WEATHER STRIPPED & INSULATED TO THE SAME LEVEL AS THE SURROUNDING SURFACES. FLOOR INSULATION MUST BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. PROGRAMMABLE THERMOSTATS WITH DAILY SETBACK CAPABILITY AIR WITH AN INITIAL SETTING NOT HIGHER THAN 70° FAHRENHEIT FOR COOLING. SUPPLY DUCTS IN ATTICS RETAIN R-8 INSULATION REQUIREMENT. REQUIREMENTS FOR ALL OTHER DUCTS IN UNCONDITIONED SPACE REDUCED TO R-6. THE ENTIRE DUCT SYSTEM MUST BE

Energy Code

IECC INSULATION & FENESTRATION REQUIREMENTS BY COMPONENT	ZONE 4
FENESTRATION (U-FACTOR)	0.32
SKYLIGHT (U-FACTOR)	0.55
GLAZED FENESTRATION (SHGC)	0.40
CEILING (R-VALUE)	49
WOOD FRAME WALL (R-VALUE)	20 or 13+5
MASS WALL (R-VALUE)	8 / 13
FLOOR (R-VALUE)	19
BASEMENT WALL (R-VALUE)	10 / 13
SLAB (R-VALUE & DEPTH)	10, 2 FT.
CRAWL SPACE WALL (R-VALUE)	10 / 13

PER IECC 2018, CHAPTER 4: RESIDENTIAL ENERGY EFFICIENCY



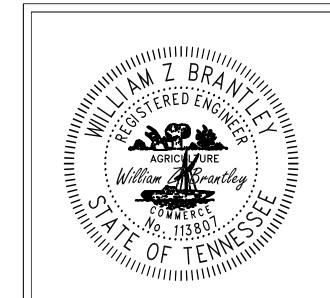
WINDOW FALL PROTECTION & EGRESS

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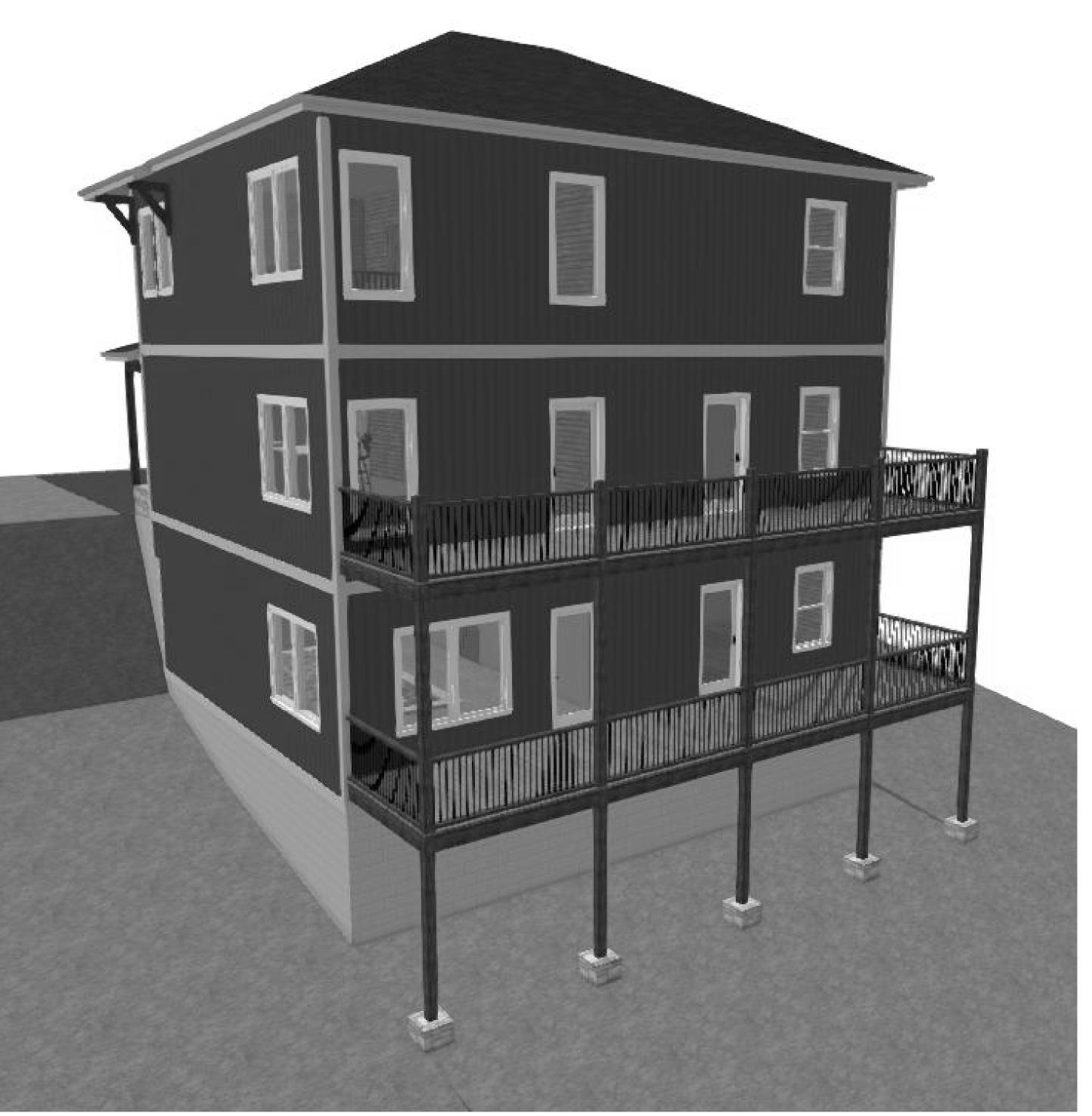
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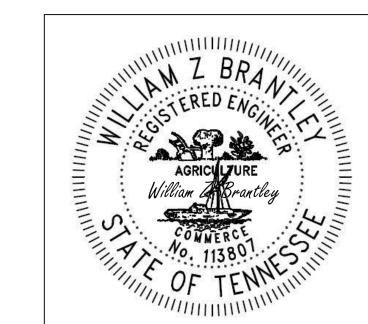
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SHEET TITLE:

ORTHOGRAPHICS

ORTHOGRAPHICS

ENGINEER:

WILLIAM Z BRANTI

VETERANS OVERLOOK LOT 7 PIGEON FORGE, TN 37138

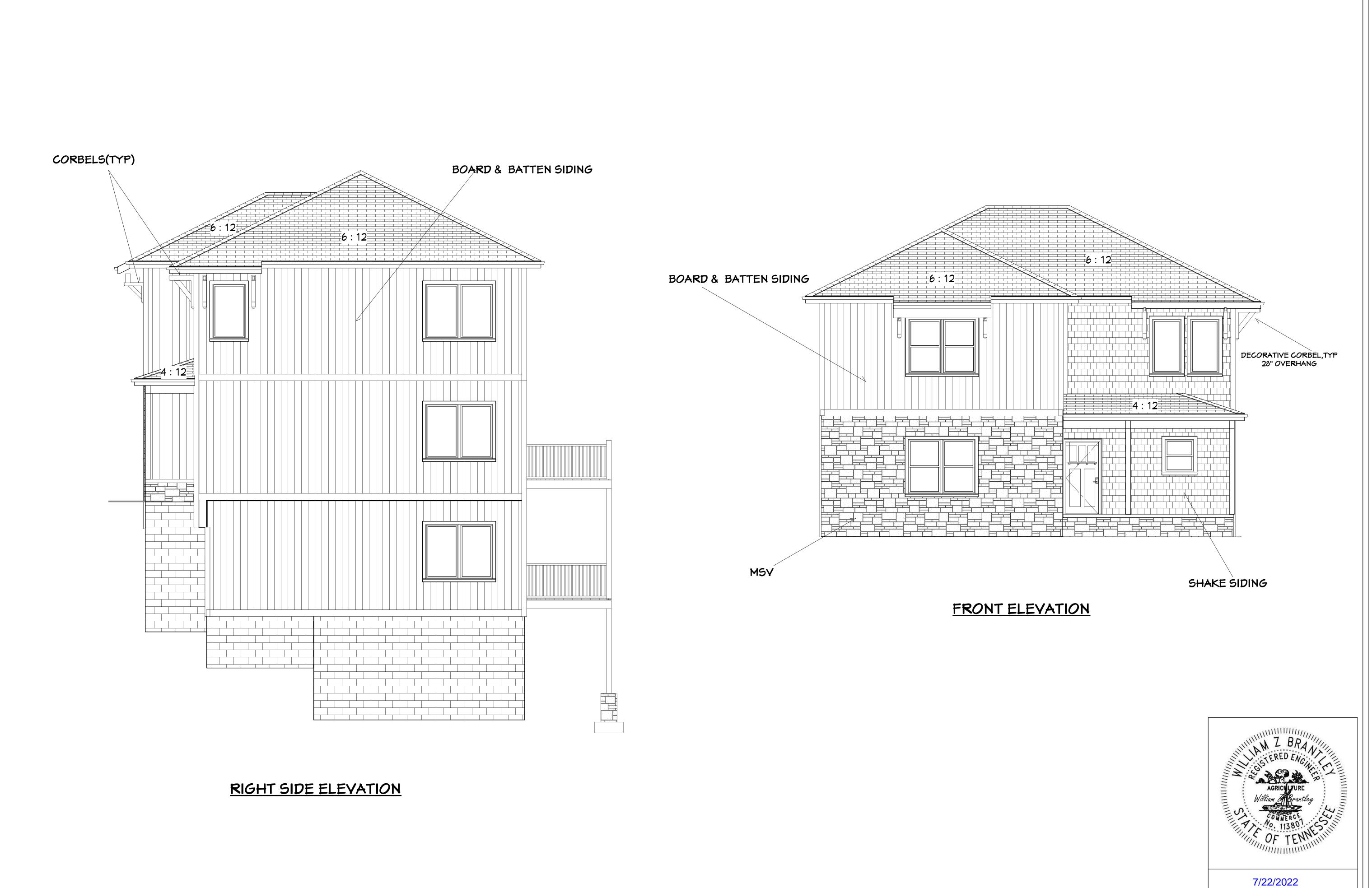
NNER: TAYLOR MARSHALL

DATE:

7/22/2022

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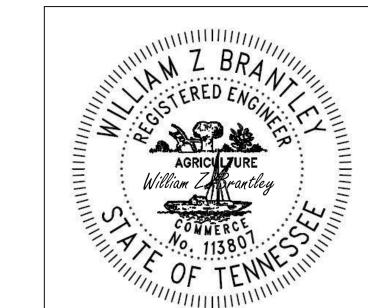
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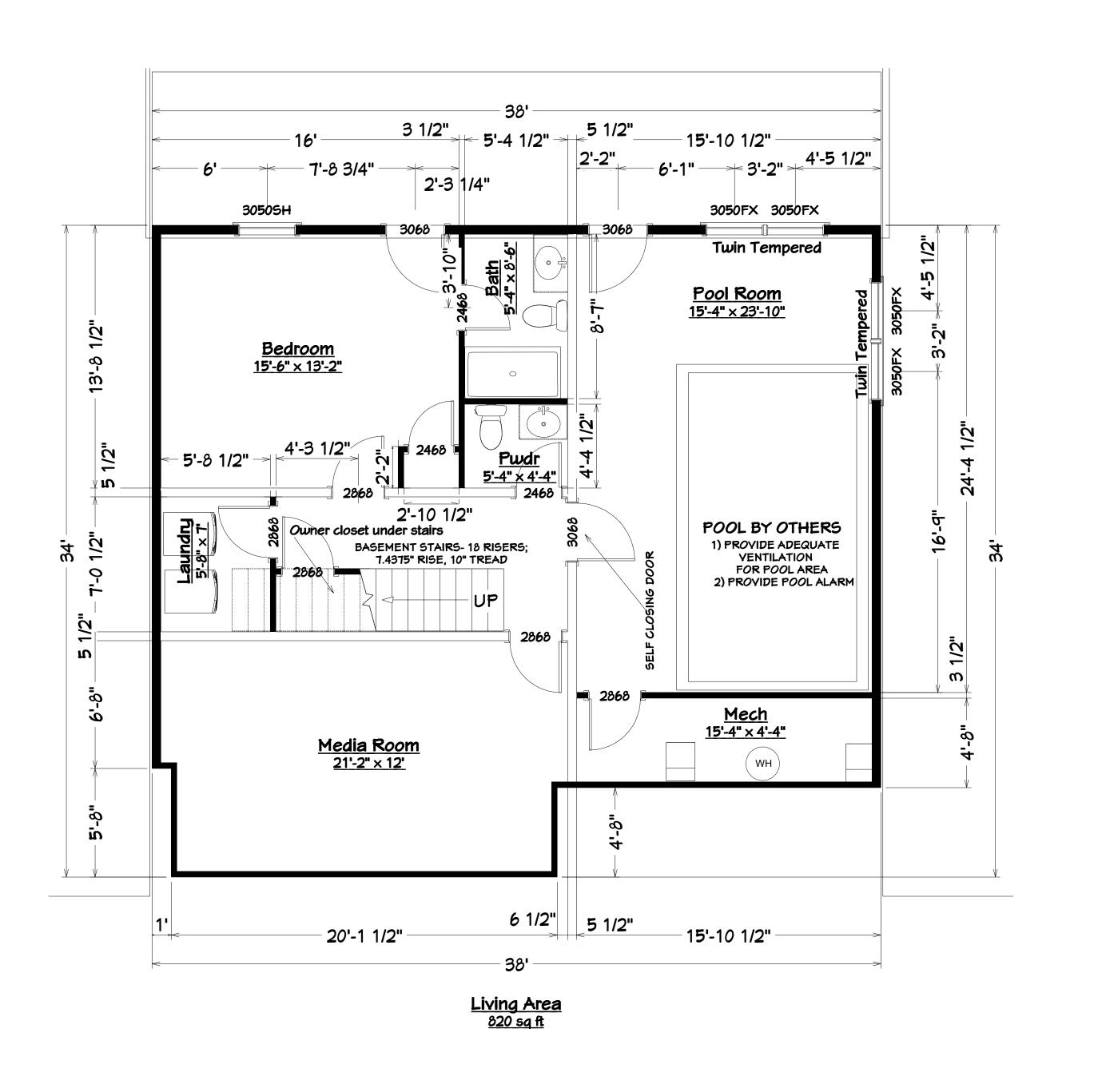
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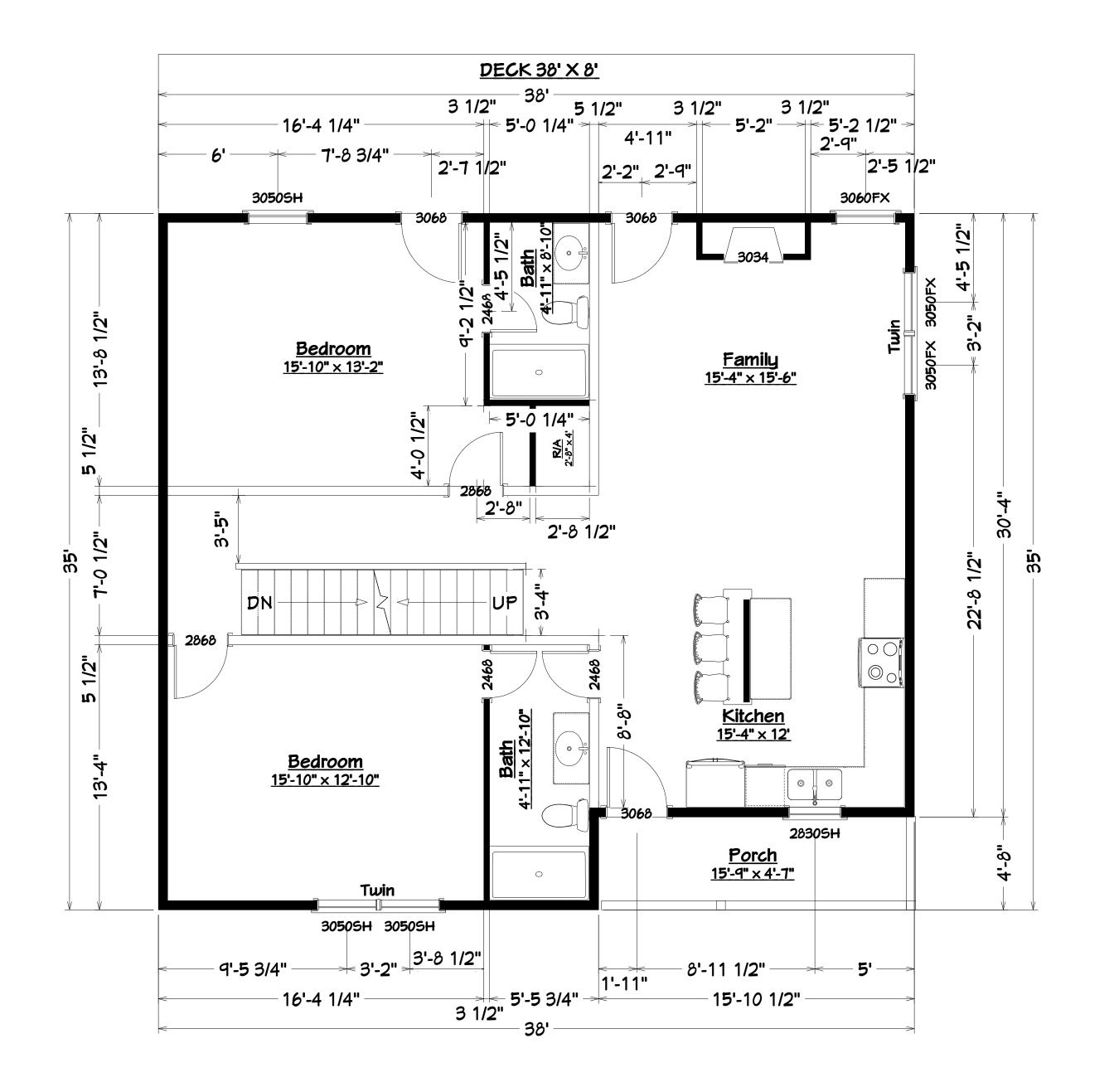
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A-3

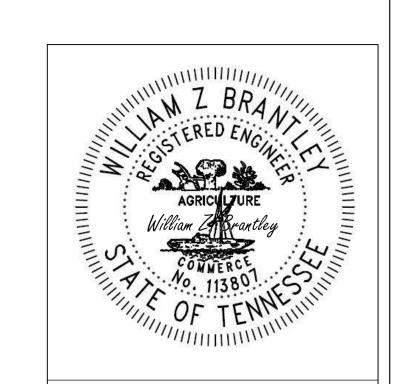
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LOWER LEVEL FLOOR PLAN

MAIN LEYEL FLOOR PLAN



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NUMBER DATE

OOR PLANS

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OB ADDRESS:
VETERANS OVERLOOK
LOT 7

OWNER: TAYLOR MARSHALL

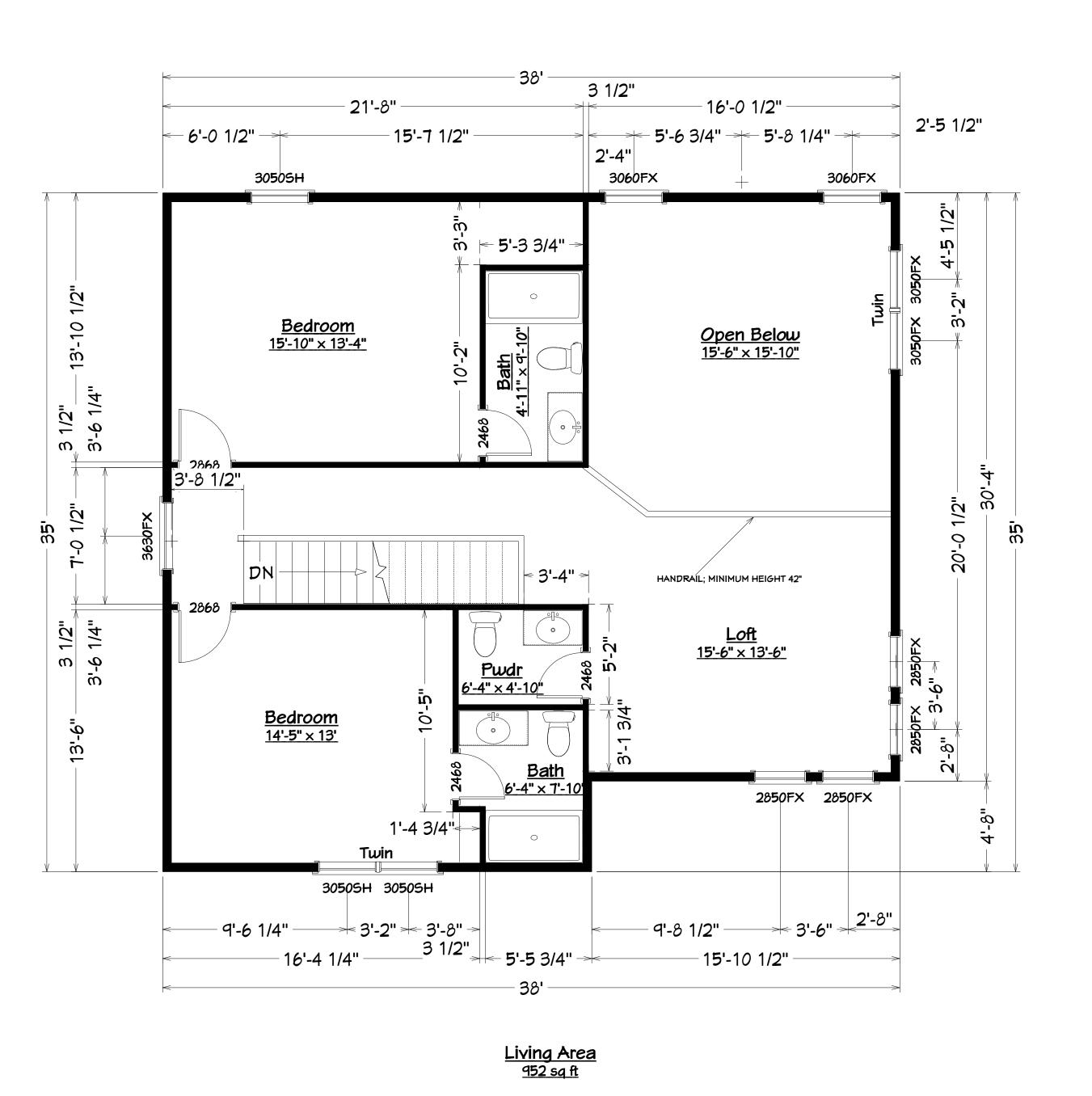
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UPPER LEVEL FLOOR PLAN



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NUMBER DATE REVISION TABLE
NUMBER DATE REVISED BY DESCRIPTION

FLOOR PLANS

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VETERANS OVERLOOK

LOT 7

PIGEON FORGE, TN 37138

OWNER: TAYLOR MARSHALL

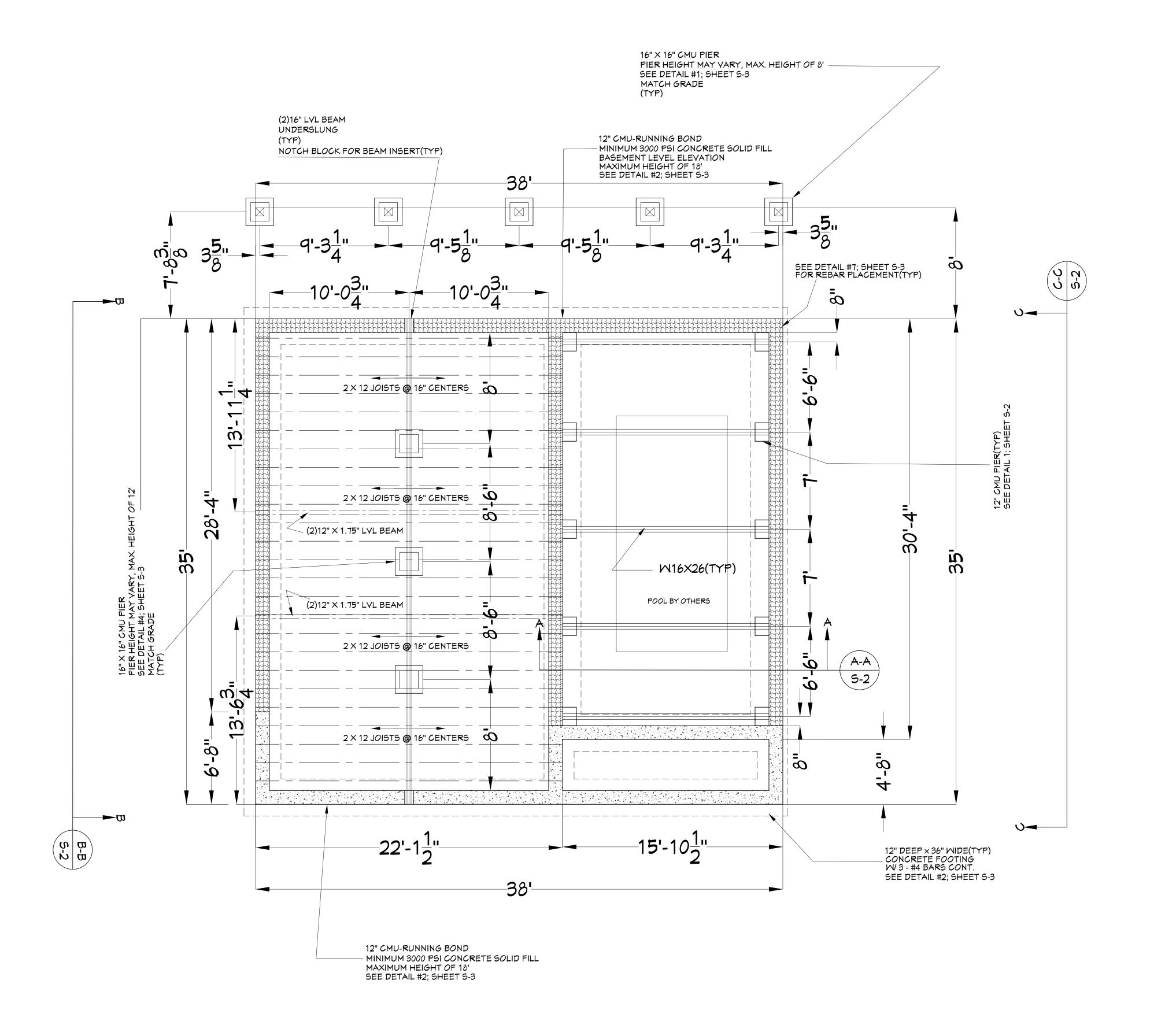
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7/22/2022

SCALE:

1/4"=1'

SHEET:



DESIGN LOADS

OCCUPANCY CATEGORY: R-3 TYPE OF CONSTRUCTION: V-B

ROOF DEAD LOADS:

ROOFING & INSULATION FRAMING

10 PSF SELF-WEIGHT

ROOF LIVE LOADS: 20 PSF

FLOOR DEAD LOADS: 20 PSF

WALLS FRAMING SELF-MEIGHT

FLOOR LIVE LOADS:

40 PSF TYPICAL 100 PSF PUBLIC ROOMS 100 PSF STAIRWAYS & LANDINGS ELEVATED DECKS 100 PSF

WIND LOADS:

115 MPH NOMINAL DESIGN WIND SPEED-3 SEC GUST $V_{ASD} = V_{ULT} \times .774 =$ MIND IMPORTANCE FACTOR-CAT. 3 1.15 EXPOSURE CATEGORY COMPONENTS & CLADDING PER ASCE 7

SNOW LOADS:

GROUND SNOW LOAD 10 PSF SNOW IMPORTANCE FACTOR(I) 1.1 THERMAL FACTOR 1.0 SNOW EXPOSURE FACTOR 0.9

SOIL LOAD:

MINIMUM BEARING CAPACITY 2500 PSF 40 PSF/FT LATERAL SOIL LOAD (SOIL CLASSIFICATION-GM)

GUARD & HANDRAIL:

UNIFORM LOAD AT TOP OF HANDRAIL 50 PLF CONCENTRATED LOAD 200#

STAIR:

MINIMUM LOAD 300# DESIGN LOADING 100 PSF

SEISMIC LOADS:

SEISMIC DESIGN CATEGORY SITE CLASS SEISMIC USE GROUP

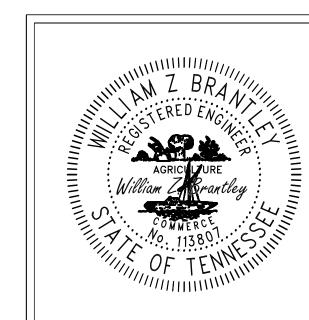
SEISMIC IMPORTANCE FACTOR MAPPED SPECTRAL RESPONSE ACCELERATIONS S₅ = 0.524 g

 $S_1 = 0.118 g$ MAPPED SPECTRAL RESPONSE ACCELERATIONS

 $S_{DS} = 0.416 g$ $5_{D1} = 0.132 g$

RESPONSE MODIFICATION FACTOR, R 3.0 SEISMIC RESPONSE COEFFICIENT, C_s 0.173 ANALYSIS PROCEDURE USED:

MODAL RESPONSE SPECTRUM ANALYSIS LOAD COMBINATIONS IN ACCORDANCE WITH ASCE 7



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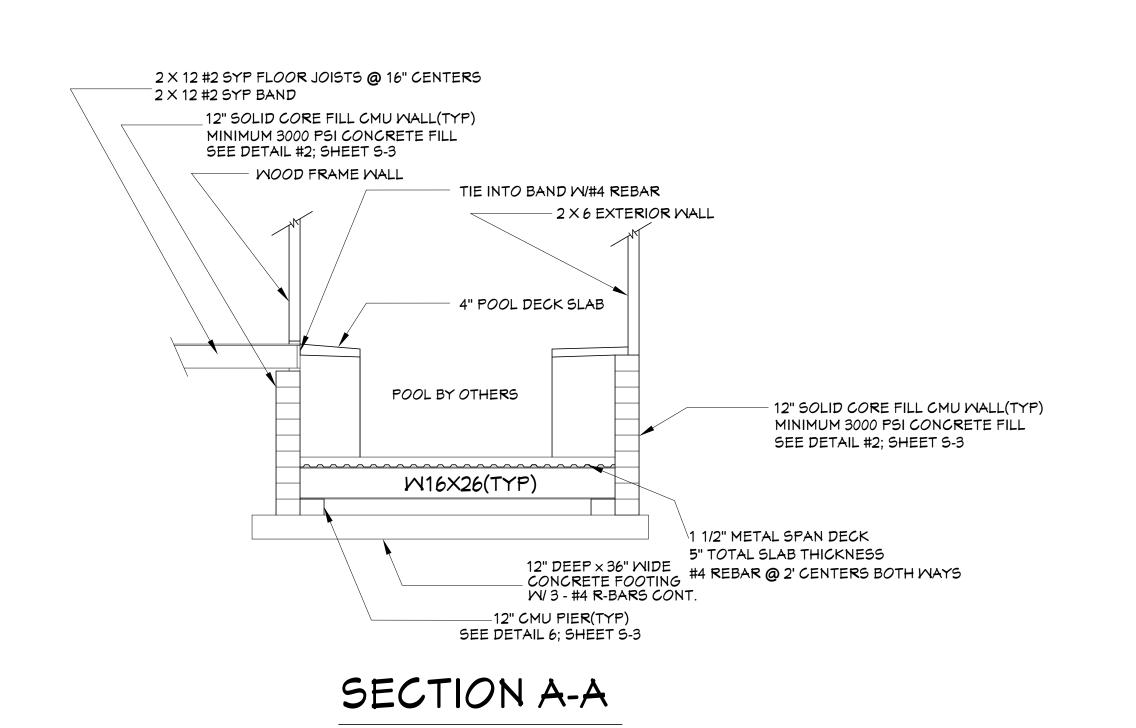
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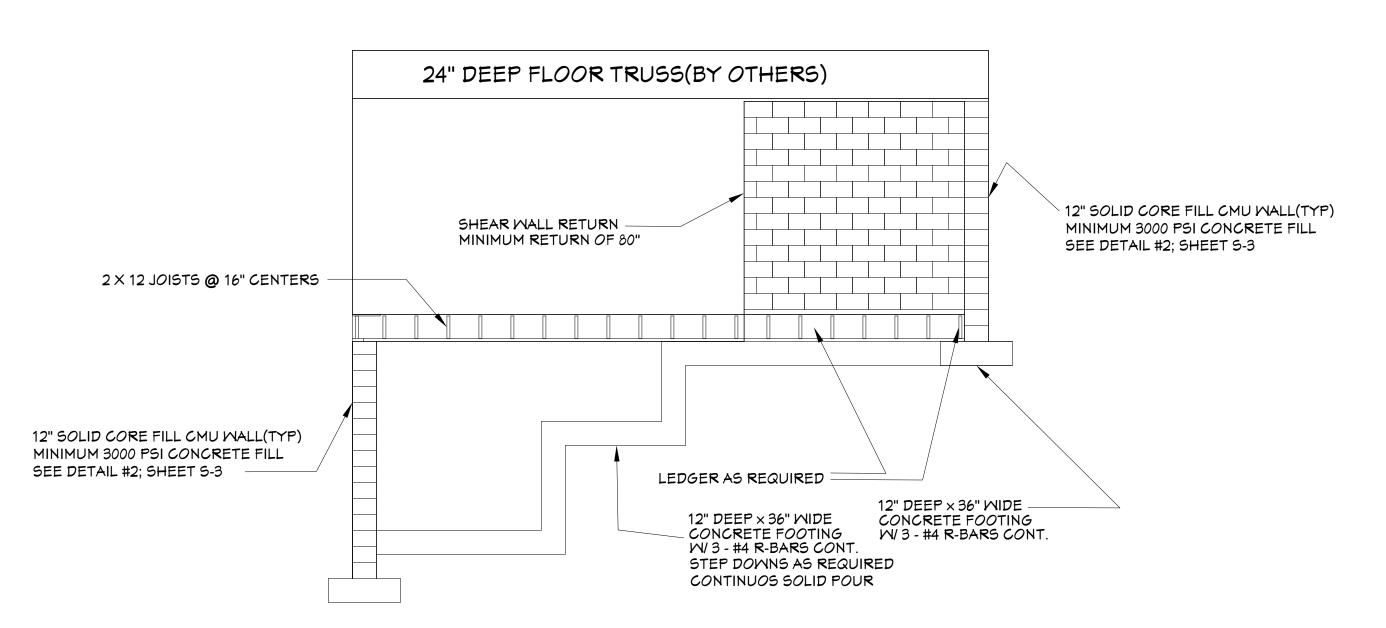
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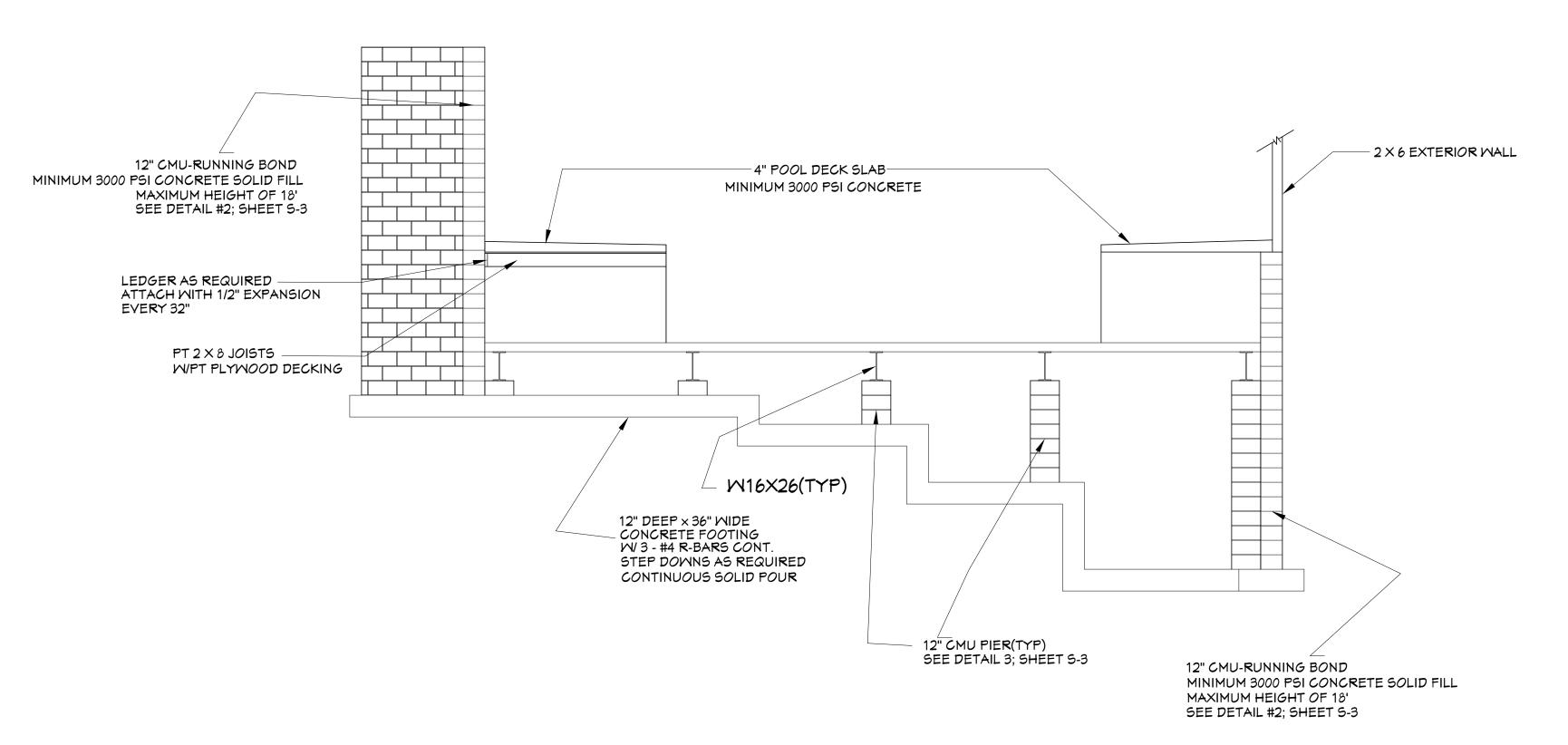
5-1



NTS



SECTION B-B



SECTION C-C

NTS



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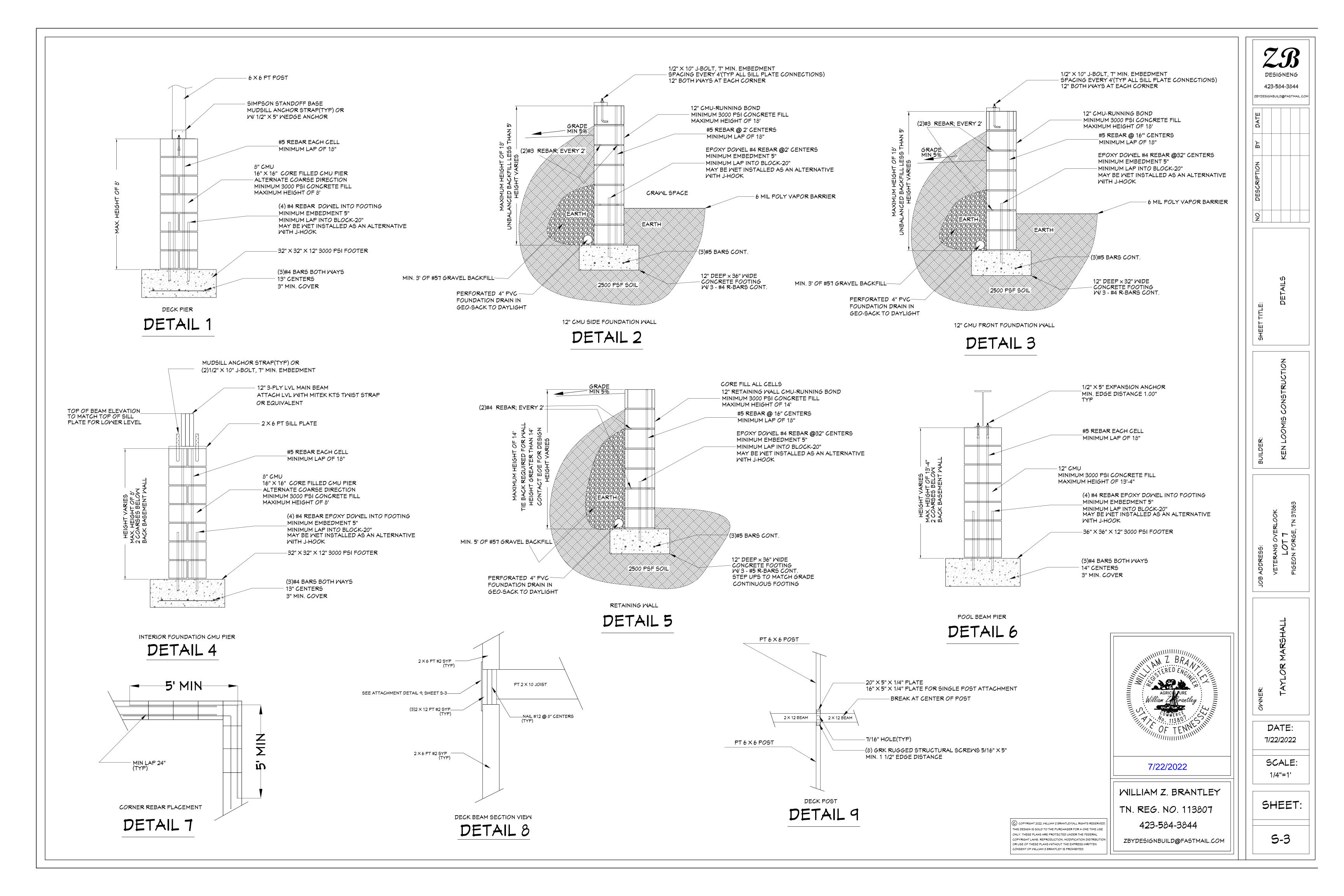
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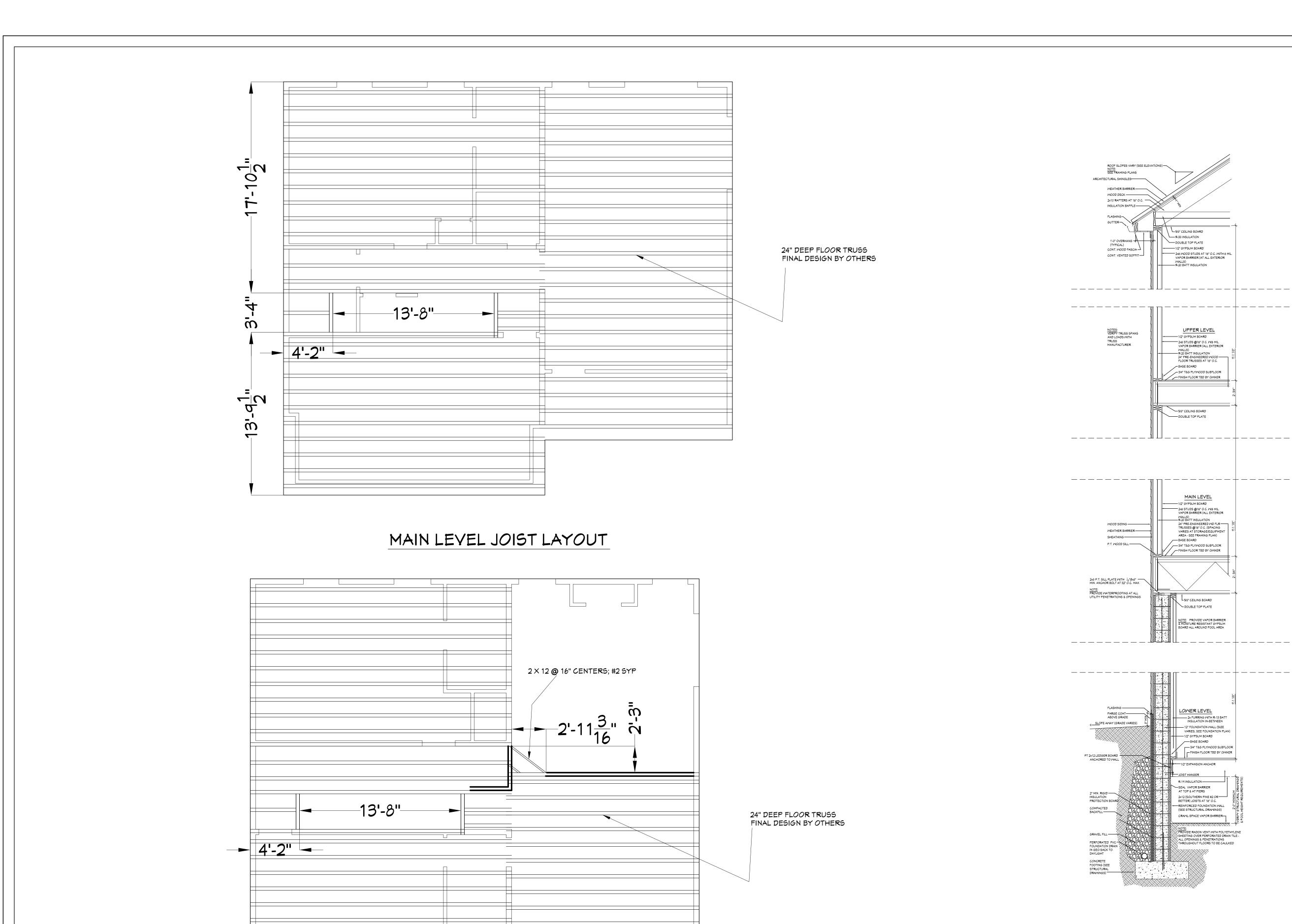
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SCALE: 1/4"=1'

SHEET:

5-2





UPPER LEVEL JOIST LAYOUT

TYPICAL MALL SECTION

7/22/2022

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5-4

DATE:

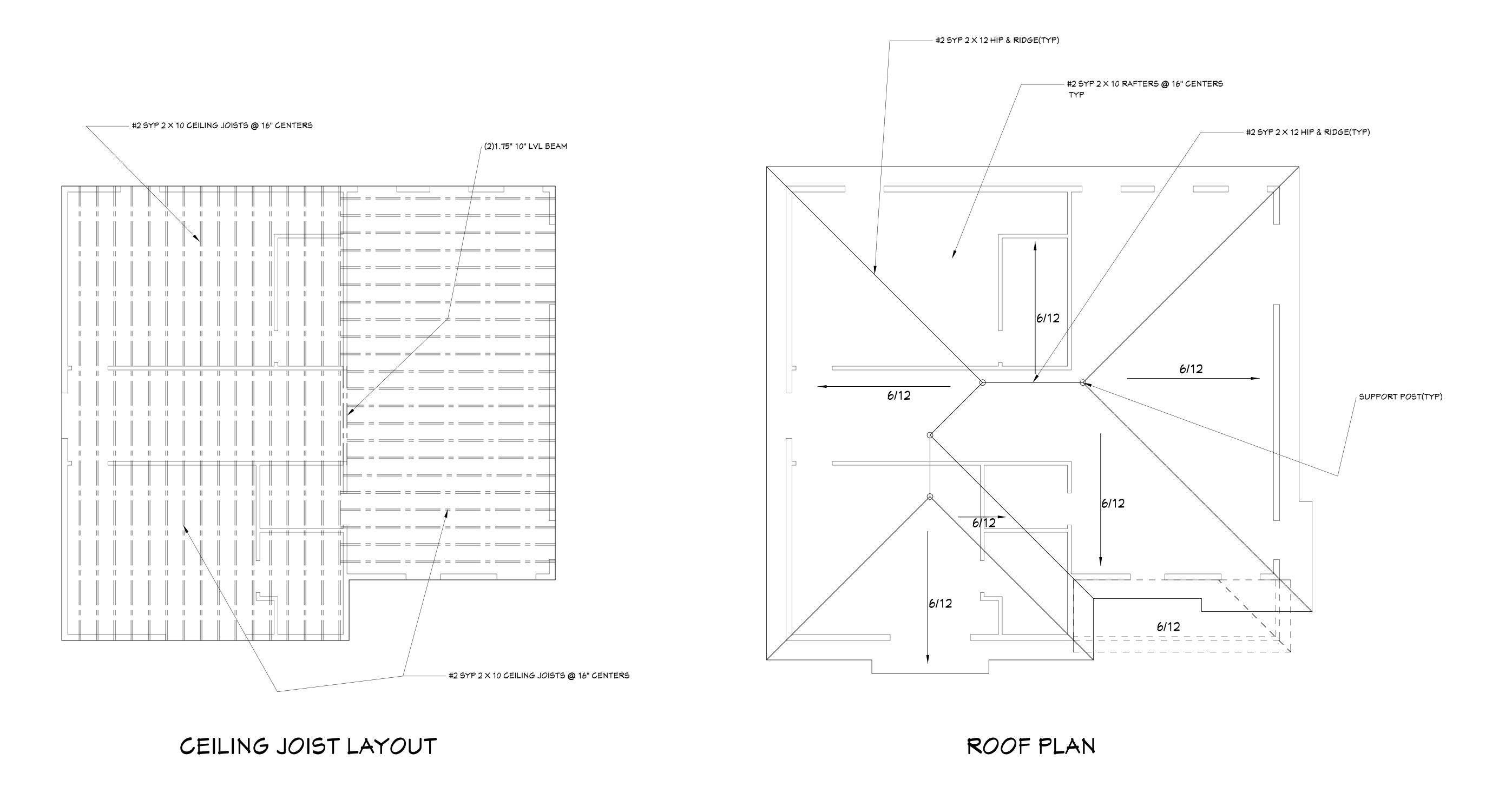
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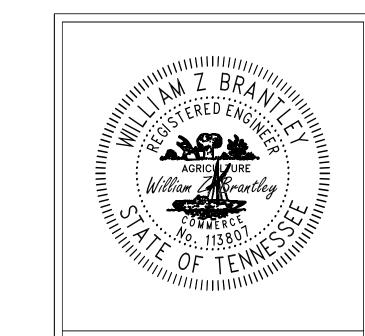
SCALE:

1/4"=1'

SHEET:

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CEILING JOIST LAYOUT

KEN LOOMIS CONSTRUCTION

VETERANS OVERLOOK

LOT 7

PIGEON FORGE, TN 37863

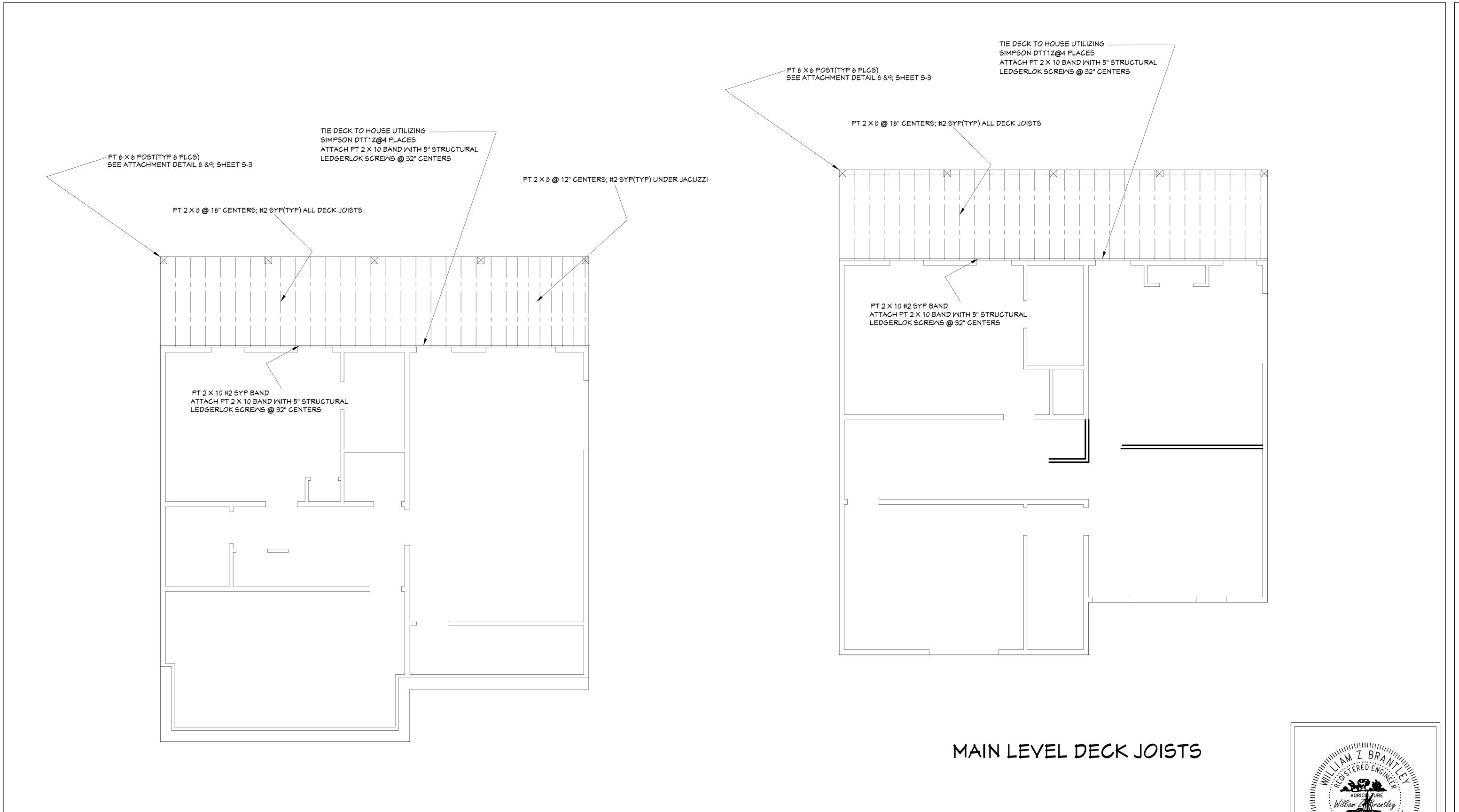
OMNER: TAYLOR MARSHALL

DATE: 7/22/2022

SCALE: 1/4"=1'

SHEET:

S-**5**



LOWER LEYEL DECK JOISTS

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5-6

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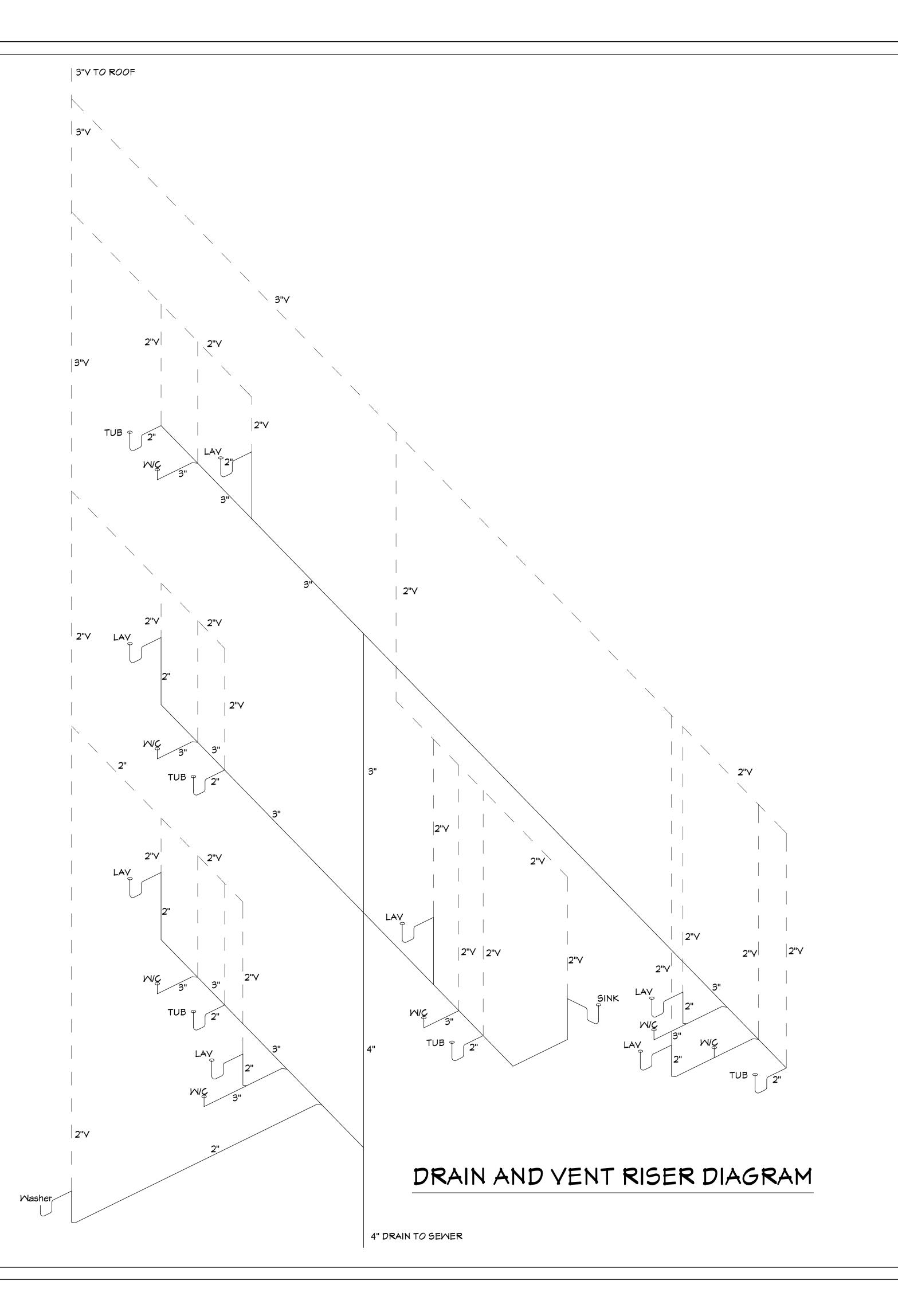
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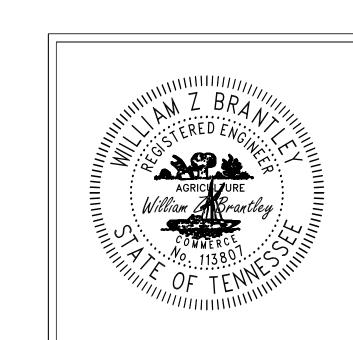
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ROOM	ITEM	QUANITY
BATH 1	TUB/SHOMER	1
	MATER CLOSET	1
	VANITY SINK	1
BATH 2	MATER CLOSET	1
	VANITY SINK	1
LAUNDRY	DRAIN	1
BATH 3	TUB/SHOMER	1
	MATER CLOSET	1
	VANITY SINK	1
BATH 4	TUB/SHOMER	1
	WATER CLOSET	1
	VANITY SINK	1
<itchen< td=""><td>KITCHEN SINK</td><td>1</td></itchen<>	KITCHEN SINK	1
BATH 5	TUB/SHOMER	1
	WATER CLOSET	1
	VANITY SINK	1
KITCHEN BATH 5 BATH 6	TUB/SHOMER	1
	WATER CLOSET	1
	VANITY SINK	1
BATH 7	WATER CLOSET	1
	VANITY SINK	1
	MATER HEATER	1
	SEWER TAP	1



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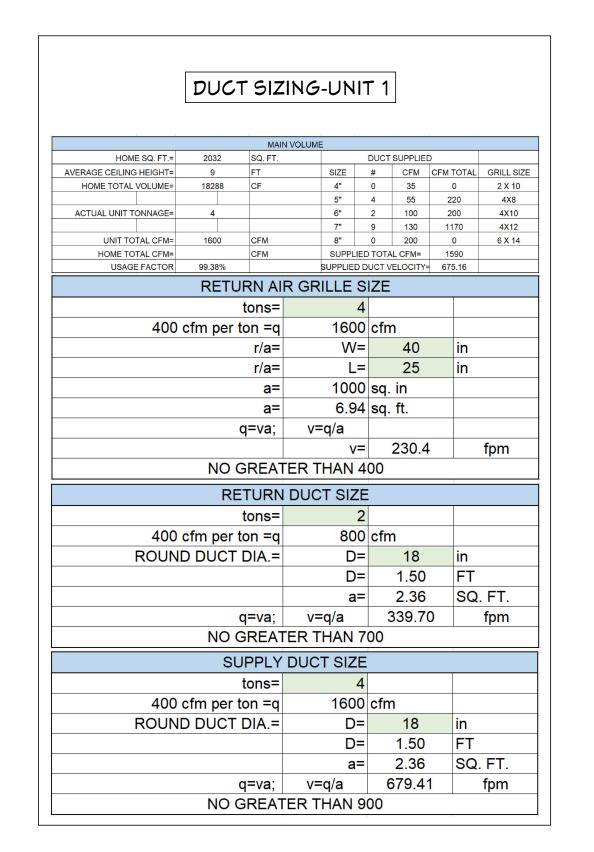
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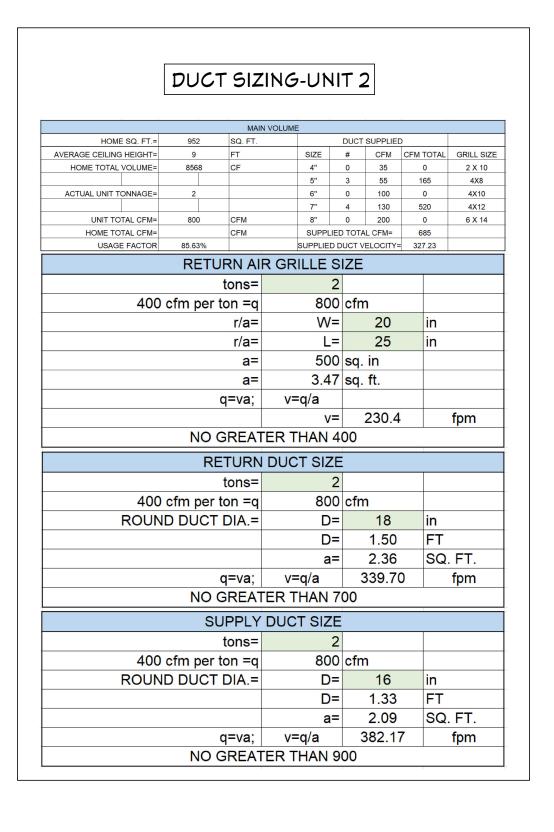
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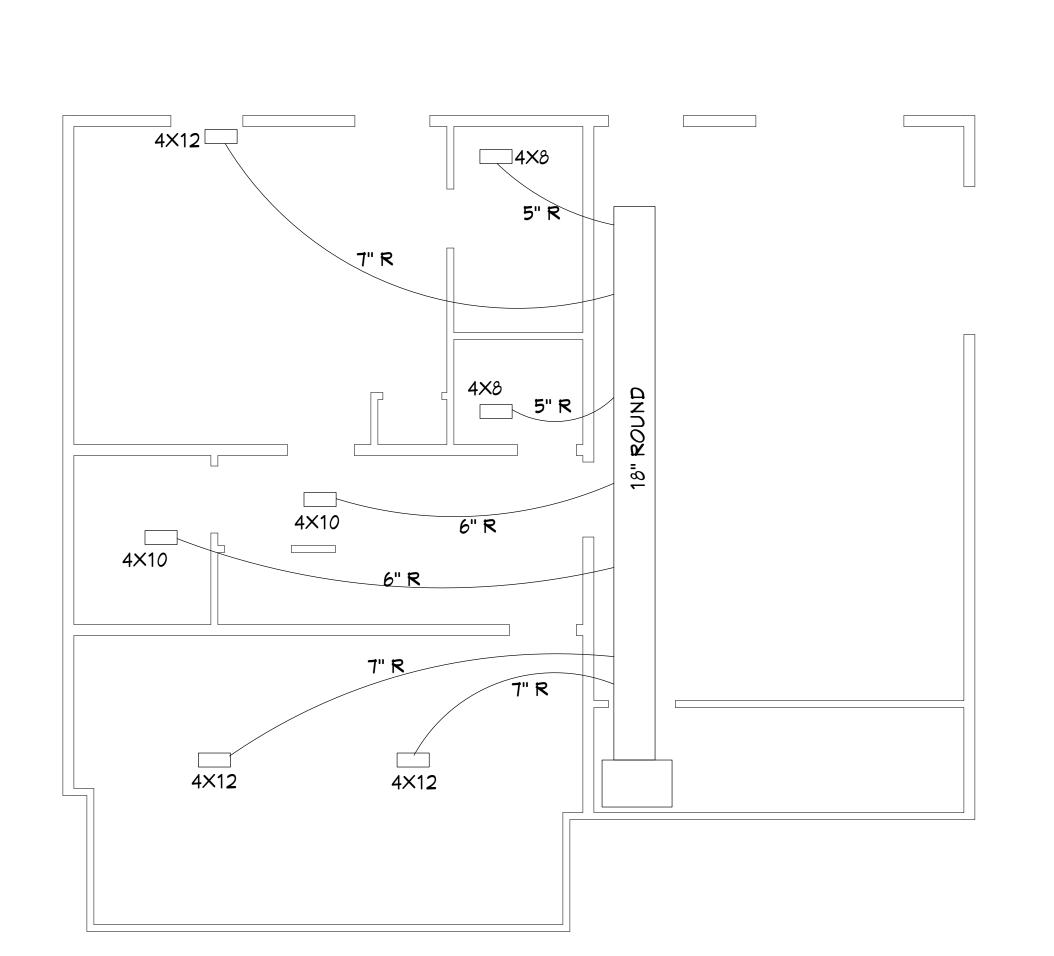
MEP-1



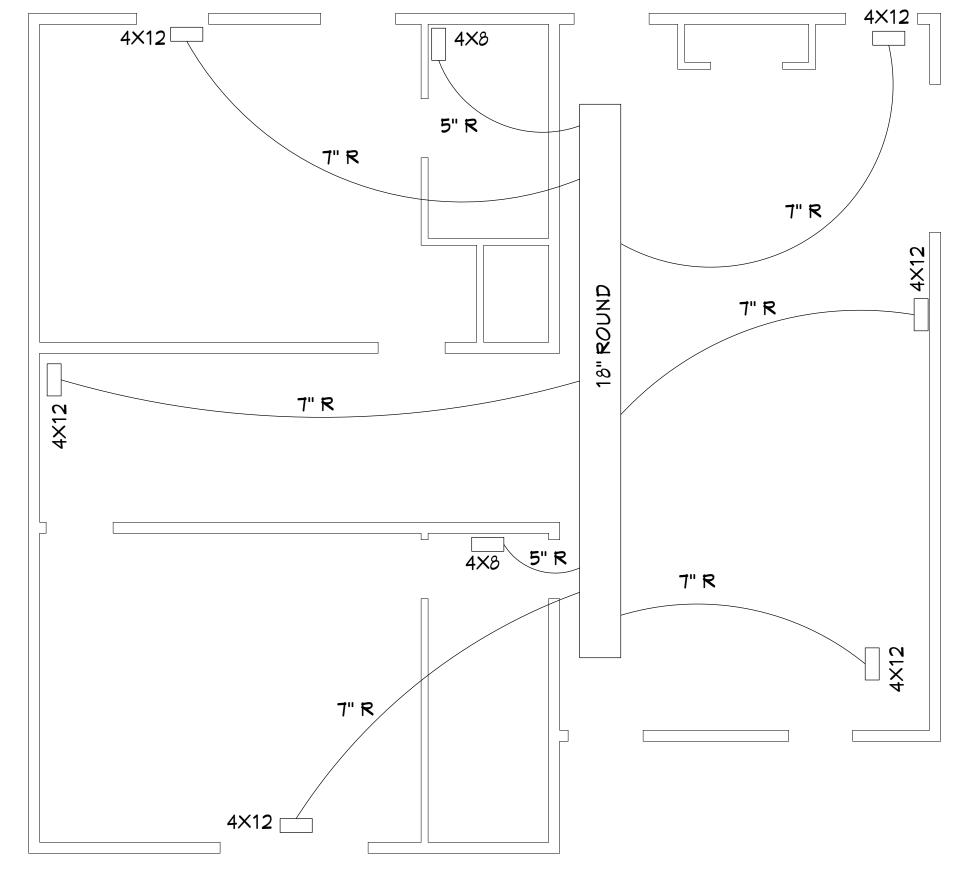


HVAC SCHEDULE										
SYSTEM	FLOOR	DESIGNATION	TYPE	NOMINAL TONS	TOTAL COOLING BTUH	HEAT(KM)	AIRFLOW(CFM)	VOLTS	MIN SEER	MIN HSPF
1	LOWER LEVEL	OUTDOOR	HEAT PUMP	4	48000			230	14	
MAIN LEVE	MAIN LEVEL	INDOOR	AIR HANDLER			10.0	1600	230		8.2
2 UPPER LEVE	11885815/51	OUTDOOR	HEAT PUMP	2	24000			230	14	
	UPPER LEVEL	INDOOR	AIR HANDLER			5.0	800	230		8.2

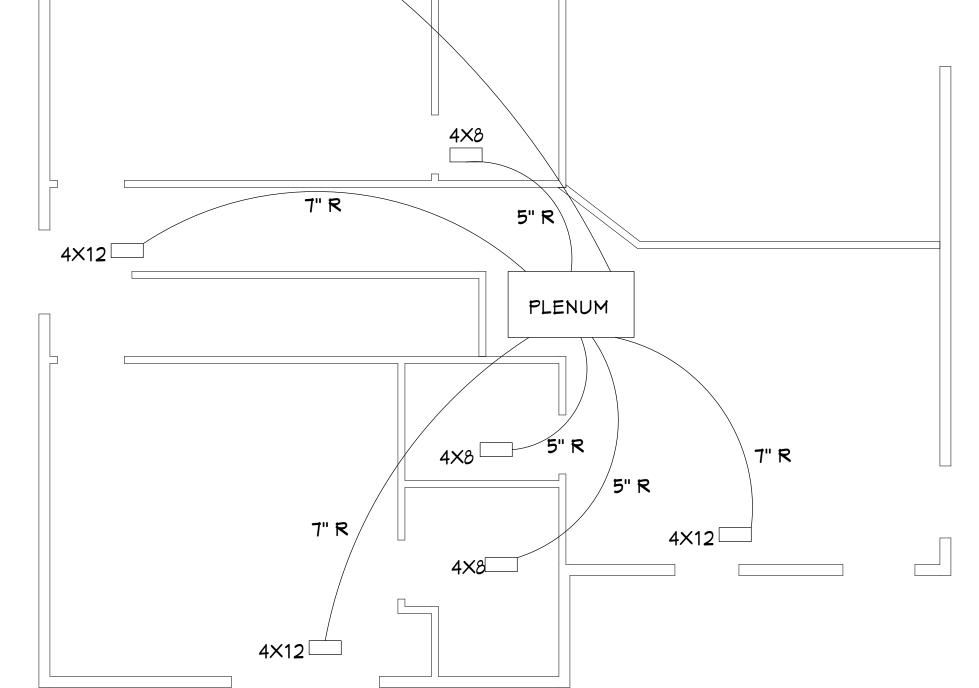
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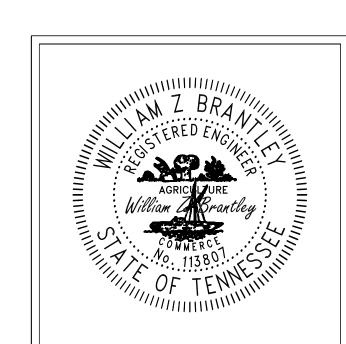
LOWER LEVEL



MAIN LEVEL



UPPER LEVEL



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MEP-2