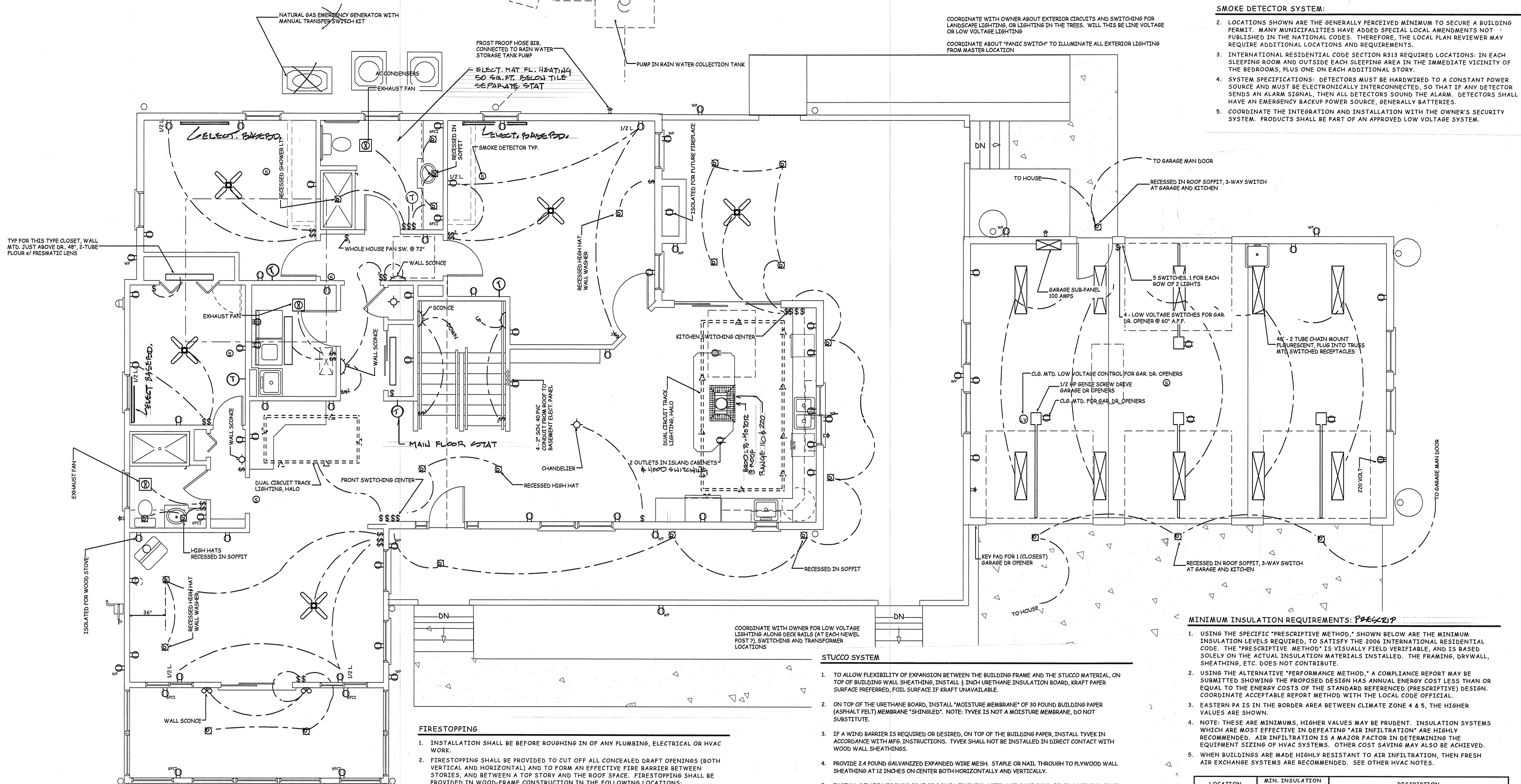


TPV FOR THIS TYPE CLOSET, WALL MTD. JUST ABOVE DR. 48" 2-TUBE FLOOR w/ PRISMATIC LENS



- SMOKE DETECTOR SYSTEM:**
- LOCATIONS SHOWN ARE THE GENERALLY PERCEIVED MINIMUM TO SECURE A BUILDING PERMIT. MANY MUNICIPALITIES HAVE ADDED SPECIAL LOCAL AMENDMENTS NOT PUBLISHED IN THE NATIONAL CODES. THEREFORE, THE LOCAL PLAN REVIEWER MAY REQUIRE ADDITIONAL LOCATIONS AND REQUIREMENTS.
 - INTERNATIONAL RESIDENTIAL CODE SECTION R313 REQUIRED LOCATIONS: IN EACH SLEEPING ROOM AND OUTSIDE EACH SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, PLUS ONE ON EACH ADDITIONAL STORY.
 - SYSTEM SPECIFICATIONS: DETECTORS MUST BE HARDWIRED TO A CONSTANT POWER SOURCE AND MUST BE ELECTRONICALLY INTERCONNECTED, SO THAT IF ANY DETECTOR SENDS AN ALARM SIGNAL, THEN ALL DETECTORS SOUND THE ALARM. DETECTORS SHALL HAVE AN EMERGENCY BACKUP POWER SOURCE, GENERALLY BATTERIES.
 - COORDINATE THE INTEGRATION AND INSTALLATION WITH THE OWNER'S SECURITY SYSTEM. PRODUCTS SHALL BE PART OF AN APPROVED LOW VOLTAGE SYSTEM.

DATE	REVISION DESCRIPTION
OCT 22, 2008	START UP
12-11-2008	FINAL PRELIMINARY REVIEW
01-05-2009	FOR PERMIT SUBMISSION
01-18-09	REVISED PER THE PERMIT REVIEW

NOT VALID FOR PERMITS UNLESS AFFIXED WITH EMBOSSED SEAL & ORIGINAL SIGNATURE IN RED

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- FIBERGLASS ROOF SHINGLE SYSTEM**
- WIND RESISTANCE U.L. INC. LISTING CLASS "A". FIRE RATING: U.L. INC. LISTING CLASS "A". WEIGHT MIN. 200 LBS./SQ. MIN. EXPOSURE MANUFACTURER'S RECOMMENDATIONS, HEAD CAP 2" MINIMUM. SUBMIT TECHNICAL PRODUCT DATA, INSTALLATION INSTRUCTIONS, AND RECOMMENDATIONS. PROVIDE FULL RANGE OF SAMPLES OF COLOR AND TEXTURE FOR OWNER'S SELECTION. PROVIDE SHINGLE MANUFACTURER WARRANTY ON INSTALLED WORK. PERIOD OF WARRANTY IS 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. COLOR RECOMMENDED SHALL BE A "GREY/BLUE" WEATHERED WOOD SHAKE REPLICATION. COLOR AND MFG. SHALL BE CONFIRMED BY OWNER.
 - MAINTENANCE STOCK SHALL BE 2% OF EACH TYPE/COLOR/TEXTURE OF SHINGLE USED IN THE WORK. DELIVER TO OWNER FOR STORAGE.
 - HORSE FEATHERS:** AT THE GABLE EDGES OF ALL ROOFS (ABOVE RAKE BOARDS), INSTALL ONE ROW OF HEAVY-GAUGE (1/2" MIN. BUTT ENDS) UNIFORM, PRESSURE-TREATED, MACHINE-SPLIT CEDAR SHAKES TO BUILD A SLIGHT "DAMP" PREVENTING WATER ROLLING OFF EDGES. INSTALL WITH STAINLESS-STEEL NAILS. THESE SHAKES SHALL BE ATTACHED TO THE ROOF SHEATHING AND BE COVERED WITH ROOFING FELT OR ICE BARRIER.
 - PROVIDE BLACK ALUMINUM METAL DRIP EDGES AT ALL, EAVE AND GABLE, ROOF EDGES.
 - FELT UNDERLAYMENT SHALL COMPLY WITH ASTM D 250. MIN. 30 LB.
 - ICE DAM PREVENTION MEMBRANE (ICE SHIELD) SHALL BE INSTALLED STARTING AT THE EAVE EDGE, AND EXTEND A MIN. 36" UP THE ROOF SLOPE, MEASURED FROM THE INTERIOR FACE OF THE WALL BELOW, SHALL BE COMPATIBLE WITH THE SHINGLE SELECTED.
 - ADD OPTION: COVER ENTIRE ROOF WITH "ICE SHIELD"**
 - VALLEY FLASHINGS SHALL BE EXPOSED METAL WITH MIN. 2" EXPOSURE UP EACH OPPOSING ROOF SLOPE. USE COPPER OR VERIFY OWNER'S APPROVAL FOR OTHER MATERIAL. USE ICE DAM MEMBRANE UNDER ALL VALLEYS.
 - ABUTTING ALL VERTICAL SURFACES, INSTALL METAL STEP FLASHING, IN COMPLIANCE WITH RECOMMENDATIONS OF THE NRCA STEEP ROOF MANUAL. BUILD IN FLASHING AS WORK PROGRESSES, WORKING BETWEEN SHINGLES AS THEY ARE LAID. WHEREVER STEP FLASHINGS ARE REQUIRED, PROVIDE EXPOSED COUNTER FLASHING.
 - PLUMBING VENT STACK FLASHINGS, AND SIMILAR, SHALL BE NEW NEOPRENE BOOTS.

- FIRESTOPPING**
- INSTALLATION SHALL BE BEFORE ROUGHING IN OF ANY PLUMBING, ELECTRICAL OR HVAC WORK.
 - FIRESTOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIRESTOPPING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
 - IN CONCEALED SPACES OF STUD WALL AND PARTITIONS, INCLUDING PURSED SPACES AND STUDDO OFF SPACES OF MASONRY OR CONCRETE WALLS, AT THE CEILING AND FLOOR LEVEL;
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, SOFFITS OVER CABINETS, DROP CEILING, COVE CEILING, ETC.
 - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF RUN;
 - IN EXTERIOR CORNICES AND OTHER EXTERIOR ARCHITECTURAL ELEMENTS WHERE PERMITTED OF COMBUSTIBLE CONSTRUCTION OR WHEN ERECTED WITH COMBUSTIBLE FRAMES, AT MAX. INTERVALS OF 20 FT. IF NONCONTINUOUS, THEY SHALL HAVE CLOSED ENDS, WITH AT LEAST 4" OF SEPARATION BETWEEN SECTIONS.
 - IN THE SPACE BEHIND COMBUSTIBLE TRIM AND FINISH WHERE PERMITTED AND ALL OTHER HOLLOW SPACES WHERE PERMITTED IN FIRE RESISTANCE RATED CONSTRUCTION AT 10' INTERVALS; OR THE SPACE SHALL BE COMPLETELY FILLED WITH NONCOMBUSTIBLE MATERIALS.
 - IN CONCEALED SPACES FORMED BY FLOOR SLEEPERS IN AREAS OF NOT MORE THAN 100 SQ. FT.; OR THE SPACE MAY BE COMPLETELY FILLED WITH NONCOMBUSTIBLE MATERIALS.
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE U.L. RATED SYSTEMS AND MATERIALS.
 - FIRESTOPPING SHALL CONSIST OF 2-INCH NOMINAL LUMBER WITH TIGHT JOINTS, OR TWO THICKNESS OF 1-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS, OR ONE THICKNESS OF 23/32-INCH PLYWOOD WITH JOINTS BACKED BY 23/32-INCH PLYWOOD, OR OTHER APPROVED MATERIALS SECURELY FASTENED IN PLACE.
 - FIRESTOPPING AT CHIMNEYS AND FIREPLACES: WHERE A "SPACE" MUST BE MAINTAINED BETWEEN COMBUSTIBLE MATERIALS INSTALL FOLDED METAL PANS TO STOP FLOW OF AIR BETWEEN FLOORS AND INTO OTHER VOIDS.
 - THE INTEGRITY OF ALL FIRESTOPS SHALL BE MAINTAINED AND SHALL NOT BE CONCEALED UNTIL INSPECTED AND APPROVED.

- STUCCO SYSTEM**
- TO ALLOW FLEXIBILITY OF EXPANSION BETWEEN THE BUILDING FRAME AND THE STUCCO MATERIAL, ON TOP OF BUILDING WALL SHEATHING, INSTALL 1/8" URETHANE INSULATION BOARD, KRAFT PAPER SURFACE PREFERRED, FOIL SURFACE IF KRAFT UNAVAILABLE.
 - ON TOP OF THE URETHANE BOARD, INSTALL "MOISTURE MEMBRANE" OF 30 POUND BUILDING PAPER (ASPHALT FELT) MEMBRANE "SHINGLED". NOTE: TYVEK IS NOT A MOISTURE MEMBRANE, DO NOT SUBSTITUTE.
 - IF A WIND BARRIER IS REQUIRED OR DESIRED, ON TOP OF THE BUILDING PAPER, INSTALL TYVEK IN ACCORDANCE WITH MFG. INSTRUCTIONS. TYVEK SHALL NOT BE INSTALLED IN DIRECT CONTACT WITH WOOD WALL SHEATHINGS.
 - PROVIDE 24 POUND GALVANIZED EXPANDED WIRE MESH, STAPLE OR NAIL THROUGH TO PLYWOOD WALL SHEATHING AT 12 INCHES ON CENTER BOTH HORIZONTALLY AND VERTICALLY.
 - INSTALL SCRATCH (BROWN) COAT OF 3/4" INCH CEMENT PLASTER, USE SAME SAND COLOR AS FINISH COAT.
 - INSTALL FINISH COAT 1/2" INCH CEMENT PLASTER, FIELD MIX OF YELLOW SAND, AND STANDARD WHITE CEMENT. APPLY AS "TEXTURED" FINISH AND THEN "KNOCK DOWN" WITH WOOD BULL FLOAT. PROVIDE 24 INCH SQUARE SAMPLE PANEL OF FINISH FOR OWNER'S APPROVAL BEFORE PROCEEDING.
 - INSTALL ALUMINUM HEAD FLASHING AT ALL OPENING FOR WINDOWS AND DOORS WHERE STUCCO ABUTS DIFFERENT MATERIALS.
 - INSTALL "CAULK EDGE" FLASHING AT THE PERIMETERS OF ALL WINDOW AND DOORS AND WHERE STUCCO ABUTS DIFFERENT MATERIALS.

- PREFABRICATED WOOD TRUSSES (OPTIONAL FOR ROOF FRAMING)**
- STANDARD: SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES PUBLISHED BY TRUSS PLATE INSTITUTE (TPI). QUALITY CONTROL MANUAL PUBLISHED BY TPI.
 - WOOD STRUCTURAL DESIGN STANDARD: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION PUBLISHED BY N.E.P.A.
 - LUMBER: PROVIDE LUMBER GRADED BY A RECOGNIZED AGENCY, WITH RULES AND SERVICE COMPLYING WITH REQUIREMENTS OF AMERICAN LUMBER STANDARDS COMMITTEE AND PS 20. USE ONLY LUMBER PIECES WHICH BEAR INSPECTION SERVICE GRADE MARK.
 - FABRICATOR'S QUALIFICATIONS: MINIMUM OF 3 YEARS EXPERIENCE IN SUCCESSFUL FABRICATION OF TRUSSES COMPARABLE TO TYPE INDICATED FOR THIS PROJECT.
 - SHOP DRAWINGS: PROVIDE, SHOWING SPECIES, SIZES AND STRESS GRADES OF LUMBER TO BE USED; PITCH, SPAN, CONFIGURATION AND SPACING FOR EACH TYPE OF TRUSS REQUIRED, TYPE, SIZE, MATERIAL, FINISH, DESIGN VALUES, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING ANCHORAGE DETAILS SHALL BE SUBMITTED FOR REVIEW BY ARCHITECT BEFORE FABRICATION OF TRUSSES.
 - CERTIFICATION: SHOP DRAWINGS MUST BEAR THE SEAL OF A PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER.
 - LOADING: LIVE + DEAD LOADS FOR EASTERN PA.
 - TOP CHORD ROOF TRUSSES - LIVE LOAD 30 PSF + DEAD LOAD TRUSSES + SHEATHING AND ROOFING @ 12 PSF
 - BOTTOM CHORD ROOF TRUSSES - LIGHT STORAGE AND DRYWALL @ 20 PSF

- MINIMUM INSULATION REQUIREMENTS: PRESCRIPTIVE**
- USING THE SPECIFIC "PRESCRIPTIVE METHOD," SHOWN BELOW ARE THE MINIMUM INSULATION LEVELS REQUIRED, TO SATISFY THE 2006 INTERNATIONAL RESIDENTIAL CODE. THE "PRESCRIPTIVE METHOD" IS VISUALLY FIELD VERIFIABLE, AND IS BASED SOLELY ON THE ACTUAL INSULATION MATERIALS INSTALLED. THE FRAMING, DRYWALL, SHEATHING, ETC. DOES NOT CONTRIBUTE.
 - USING THE ALTERNATIVE "PERFORMANCE METHOD," A COMPLIANCE REPORT MAY BE SUBMITTED SHOWING THE PROPOSED DESIGN HAS ANNUAL ENERGY COST LESS THAN OR EQUAL TO THE ENERGY COSTS OF THE STANDARD REFERENCED (PRESCRIPTIVE) DESIGN. COORDINATE ACCEPTABLE REPORT METHOD WITH THE LOCAL CODE OFFICIAL.
 - EASTERN PA IS IN THE BORDER AREA BETWEEN CLIMATE ZONE 4 & 5, THE HIGHER VALUES ARE SHOWN.
 - NOTE: THESE ARE MINIMUMS, HIGHER VALUES MAY BE PRUDENT. INSULATION SYSTEMS WHICH ARE MOST EFFECTIVE IN DEFEATING "AIR INFILTRATION" ARE HIGHLY RECOMMENDED. AIR INFILTRATION IS A MAJOR FACTOR IN DETERMINING THE EQUIPMENT SIZING OF HVAC SYSTEMS. OTHER COST SAVING MAY ALSO BE ACHIEVED.
 - WHEN BUILDINGS ARE MADE HIGHLY RESISTANT TO AIR INFILTRATION, THEN FRESH AIR EXCHANGE SYSTEMS ARE RECOMMENDED. SEE OTHER HVAC NOTES.

LOCATION	MIN. INSULATION FACTOR	DESCRIPTION
WINDOW GLAZING	U-0.35 MAX. 4.0	THIS IS WINDOWS AND DOOR GLAZING. UNITS MUST DISPLAY THE MANUFACTURER'S DATA
SKYLIGHTS	U-0.60 MAX.	SKYLIGHT UNITS MUST DISPLAY THE MFG'S DATA
CEILING	R-38	THIS IS THE HIGHEST CEILING UNDER THE ATTIC DECK, IF A "FLAT" ROOF OR CATHEDRAL CEILING THIS IS THE RATING REQUIRED IN THE RAFTERS
WALLS	R-49 13	THIS IS PERIMETER ABOVE GRADE EXTERIOR WALLS.
FLOORS	R-20 19	WHEN THE FLOOR IS OVER A NON-INSULATED BASEMENT OR CRAWLSPACE, CAREFUL ATTENTION IS RECOMMENDED AT THE EXTERIOR FLOOR PERIMETER (THE RIBBON BAND) WHERE THE INSULATION SHOULD BE INSTALLED SIMILAR TO WALLS WITH VAPOR BARRIER FACING THE WARM OR INTERIOR SIDE.
BASEMENT PERIMETER WALLS	R-10 / 13	WHEN THE BASEMENT IS A CONDITIONED, OR OCCUPIED SPACE THIS RATING IS REQUIRED. IF THE BASEMENT PERIMETER IS INSULATED, THEN THE FLOOR ABOVE IS NOT REQUIRED TO BE INSULATED. INSULATION SHALL EXTEND FROM THE BOTTOM OF THE FLOOR DECK ABOVE TO THE BASEMENT FLOOR.
SLAB PERIMETER	R-10	SLABS MUST BE SEPARATED FROM THE EARTH BY THIS RATING FOR A MINIMUM DISTANCE OF 24" EITHER VERTICALLY AGAINST THE FOUNDATION WALL OR HORIZONTALLY UNDER THE SLAB IN FROM THE EXTERIOR. (NOTE: THIS ARCHITECT RECOMMENDS 36", OR MORE, AS THE MIN. DISTANCE FOR REAL ENERGY SAVING)
CRAWLSPACE WALLS	R-10 / 13	IF THE FLOOR ABOVE IS NOT INSULATED, AND IF A CRAWLSPACE IS NOT VENTED TO THE EXTERIOR, THEN THIS RATING IS REQUIRED. INSTALL SIMILAR TO DESCRIPTION FOR BASEMENT WALLS.

ELECTRICAL - FIRST FLOOR PLAN