- 1. USING THE SPECIFIC "PRESCRIPTIVE METHOD," SHOWN BELOW ARE THE MINIMUM INSULATION LEVELS REQUIRED. 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.
- 2. 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.
- 3. NJ IS IN CLIMATE ZONE 5.
- 4. NOTE: THESE ARE MINIMUMS AND ARE BASED ON FIBERGLASS BATTS, AND NOT RECOMMENDED AS COST EFFECTIVE. INSULATION SYSTEMS WHICH ARE MOST EFFECTIVE IN DEFEATING "AIR INFILTRATION" ARE HIGHLY RECOMMENDED. AIR INFILTRATION IS THE MAJOR FACTOR IN DETERMINING THE EQUIPMENT SIZING OF HVAC SYSTEMS. OTHER COST SAVING MAY ALSO BE ACHIEVED. FOR INSTANCE, A UNIFORM FIELD APPLICATION OF R-20 SPAY APPLIED CLOSED CELL URETHANE WILL SIGNIFICANTLY OUTPERFORM THE FIBERGLASS, IT ALSO QUALIFIES AS THE AIR BARRIER AND VAPOR BARRIER.
- 5. 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.	THIS IS WINDOWS AND DOOR GLAZING. UNITS MUST DISPLAY THE MANUFACTURE'S DATA
SKYLIGHTS	U-0.60 MAX.	SKYLIGHT UNITS MUST DISPLAY THE MFG'S DATA
CEILINGS	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-19	THIS IS PERIMETER ABOVE GRADE EXTERIOR WALLS.
FLOORS	R-30	WHEN THE FLOOR IS OVER AN 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.

## 1. WIND RESISTANCE U.L. INC. LISTING CLASS "A". FIRE RATING: U.L. INC. LISTING CLASS "A". WEIGHT MIN. 200 LBS./SQUARE MIN. EXPOSURE MANUFACTURER'S RECOMMENDATIONS, HEAD CAP 2" MINIMUM. SUBMIT TECHNICAL PRODUCT DATA, INSTALLATION INSTRUCTIONS, AND

	RECOMMENDATIONS. PROVIDE SHINGLE MANUFACTURER WARRANTY ON INSTALLED WORK. PERIOD OF WARRANTY IS 30 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. COLOR RECOMMENDED IS "GREY/BLUE" WEATHERED WOOD SHAKE REPLICATION. COLOR AND MFG. SHALL BE CONFIRMED BY OWNER.
2.	MAINTENANCE STOCK SHALL BE 2% OF EACH TYPE/COLOR/TEXTURE OF SHINGLE USED IN THE WORK. DELIVER TO OWNER FOR STORAGE.

3. HORSE FEATHERS: AT THE GABLE EDGES OF ALL ROOFS (ABOVE RAKE BOARDS), ATTACH TO THE SHEATHING A PIECE OF 10" CEMENT FIBER TAPERED SHIPLAP SIDING TO FORM SLIGHT "RAMP" THICKENING THE OUTSIDE EDGE AND RETARDING WATER ROLLING OFF EDGES. COVER WITH ROOFING MEMBRANE

4. PROVIDE BLACK ALUMINUM METAL DRIP EDGES AT ALL, EAVE AND GABLE, ROOF EDGES.

5. ROOFING MEMBRANE FELT SHALL COMPLY WITH ASTM D 250. MIN. 30 LB.

FIBERGLASS ROOF SHINGLE SYSTEM

6. 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.

7. 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.

8. 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.

9. PLUMBING VENT STACK FLASHINGS, AND SIMILAR, SHALL BE NEW NEOPRENE BOOTS.

## PLUMBING: WITH PUBLIC WATER AND SANITARY SERVICE

DETAILS PROVIDED IN THE ENGINEERED TIMBER CATALOG.

- 1. IN THIS PROJECT THE EXISTING MASTER BATH IS BEING REPLACED AND RELOCATED. ALL WORK WILL CONNECT TO THE EXISTING MASTER BATHROOM SANITARY AND SUPPLYS.
- 2. PLUMBING SHALL BE DONE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND CODE BY LICENSED PLUMBERS. VERIFY MUNICIPAL REQUIREMENTS. PLUMBER SHALL COMPLETE HIS PART OF THE BUILDING PERMIT APPLICATION. IF MUNICIPALITY REQUIRES PLUMBING RISER DIAGRAMS OR SCHEMATICS, THEN THE PLUMBING CONTRACTOR SHALL PREPARE, PROVIDE AND SUBMIT WITH THE PLUMBING PERMIT APPLICATION.
- 3. COORDINATE WITH HVAC INSTALLER
- 4. ALL SUPPLY PIPING SHALL BE COPPER. PROVIDE FULL 3/4" MAINS ALL THE WAY TO EACH FIXTURE BEFORE CHANGING TO 1/2" RISERS FOR CONNECTIONS TO FIXTURES. TAKE PRECAUTIONS NOT TO LIMIT PRESSURE TO REMOTE LOCATIONS.
- 5. PROVIDE SHUT-OFF VALVES FOR EACH FIXTURE SUPPLY. USE "BALL VALVES" ONLY FOR ABSOLUTELY EVERYTHING, NO GATE TYPE VALVES.
- 6. PROVIDE "SHOCK" RISERS AT ENDS OF MAINS. PROVIDE EXPANSION TANK ON HOT WATER
- 7. ALL EXTERIOR FAUCETS SHALL BE FROST PROOF, AND "DRAINABLE" BACK TO UTILITY AREA FOR WINTER.
- 8. TAKE SPECIAL PRECAUTIONS WITH CUTTING AND PATCHING JOISTS. DO NOT NOTCH JOISTS, DRILL HOLES ONLY IN PROPER LOCATIONS AT CENTER OF JOISTS, SEE CODE AND SEE SPECIFIC
- 9. ALL PIPES LOCATED IN EXTERIOR WALLS SHALL BE INSULATED. AFTER INSTALLATION, SEAL THE PASSAGE OF ALL PIPES THROUGH WALL PLATES (TOP AND BOTTOM, INTERIOR OR EXTERIOR WALLS) WITH EXPANDABLE URETHANE FOAM TO PREVENT VERTICAL PASSAGE OF

PLANS NOT VALID FOR PERMITS UNLESS SIGNED IN

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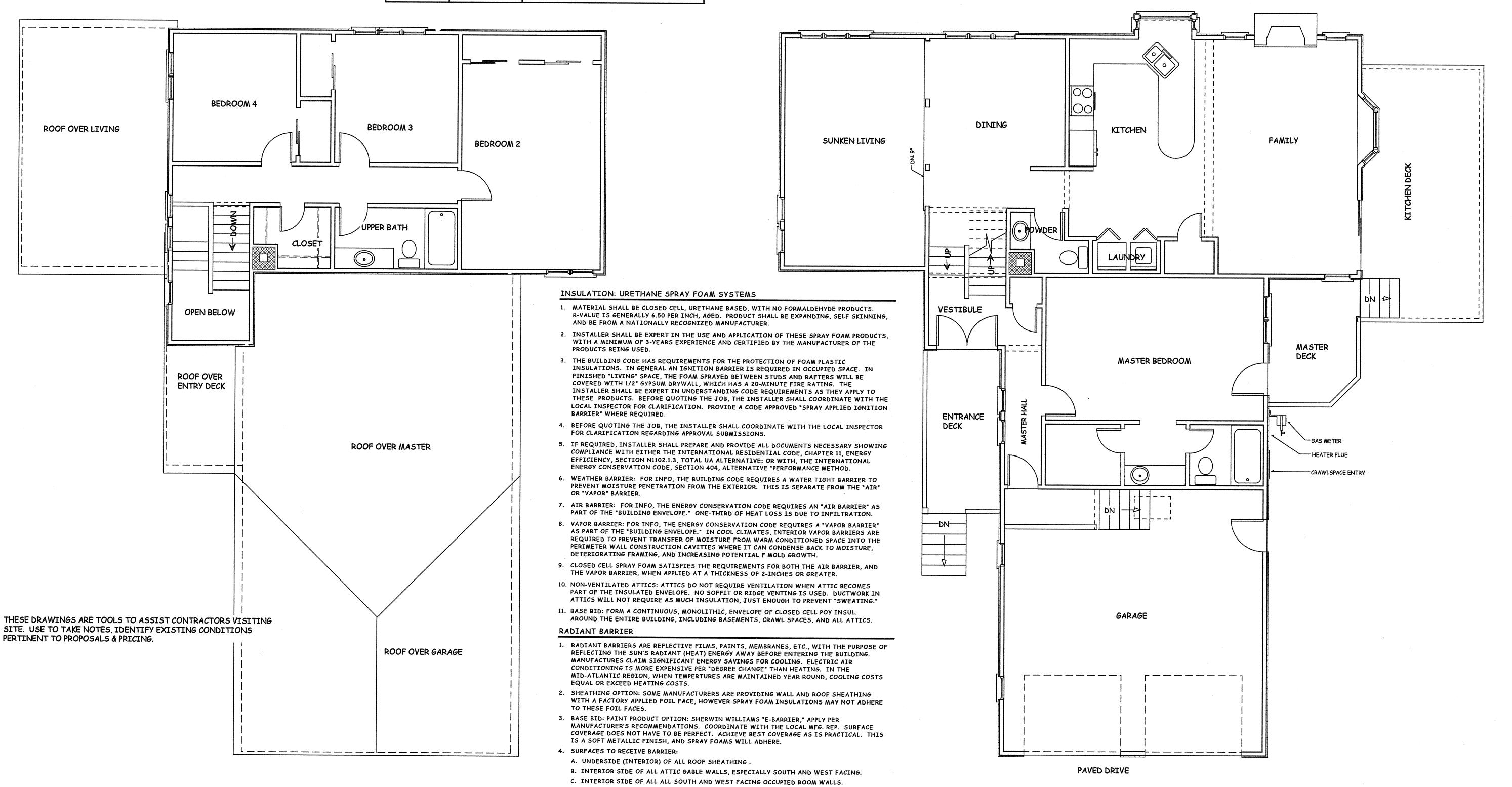
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"RED" & IMPRESSED w/ SEAL

10. DO ALL NATURAL GAS PLUMBING IN ACCORDANCE WITH CODE. AS A RULE, PROVIDE A RECESS WALL BOX FOR APPLIANCE CONNECTIONS.



EXISTING FIRST FLOOR PLAN