

6. THERMAL & MOISTURE PROTECTION (Continued):

- 6.7 The following information describes the conservation package insulation contractors are hereby required to bid and install insulation by this schedule, unless otherwise instructed in writing:

LOCATION	R-VALUE	MATERIAL
CEILING	R-30	BLOWN CELLULOSE INSULATION
CATHEDRAL CEILING	R-30	BLOWN CELLULOSE W/ V.B.
EXTERIOR WALLS		
2X4	R-13	BATT INSULATION OR
2X6	R-19	BLOWN CELLULOSE W/ V.B. TO
DBL 2X4 (N/A)	R-13	INSIDE (2) LAYERS
EXT. BSMT./ FDTN. EXPOSED WALL	R-13	FOIL FACED BATT INSULATION
FLOORS @ OVERHANG (N/A)	R-19	BATT INSULATION W/ V.B. TO INSIDE
WALLS ADJ. TO UNFINISHED BSMT.	R-11	BATT INSULATION W/ NO V.B.

- 6.8 Insulation:
Insulation materials, including facings, such as vapor barriers or breather papers installed within floor-ceiling assemblies, roof-ceiling assemblies, wall assemblies, crawl spaces and attics shall have a flame-spread index not to exceed 25 with an accompanying smoke-developed index not to exceed 450 when tested in accordance with ASTM E 84.
- 6.9 Exceptions:
When such materials are installed in concealed spaces, the flame-spread and smoke-developed limitation do not apply to the facings, provided that the facing is installed in substantial contact with the unexposed surface of the ceiling, floor or wall finish.
- 6.10 Moisture Control:
In all framed walls, floors and roof/ceilings comprising elements of the building thermal envelope, a vapor retarder shall be installed on the warm-in-winter side of the insulation.
Exceptions:
1. In construction where moisture of freezing will not damage the materials.
2. Where the framed cavity or space is ventilated to allow moisture to escape.
- 6.11 Provide and install batt insulation at window shim spaces.
- 6.12 Fit insulation tight within spaces and tight to and behind mechanical and electrical services within the plane of insulation. Leave no gaps or spaces being sure not to compress glass insulation.
- 6.13 Provide and install gutters and down spouts as per smocno architectural sheet manual.
- 6.14 Gutter - continuous 3 1/2" x 6" wide aluminum with bracket hangers @ 18" o/c. Gutter style to be "Ogee".
Down spout - continuous 2 3/4" x 4 1/4" (aluminum). Connect down spouts to preformed splash blocks to run to grade.

7. FINISHES

- 7.1 Provide and install gypsum wall board in accordance with "American Standard Specifications" for the application and finishing of gypsum wallboard, as approved by the American Standards Association, latest edition; applicable parts thereof are hereby made part of the specification except where more stringent requirements are called for in this specification, in local codes, or by the manufacturer of the gypsum wallboard, whose requirements shall be followed.
- 7.2 Application of paint or other coating shall be in strict accordance with manufacturer's directions. Ready-mixed paint shall not be thinned, except as permitted by the application instructions.
- 7.3 Exterior trim to receive prime coat prior to being wrapped with aluminum.
- 7.4 Provide resilient flooring and wall base per owner's schedule and specifications. Install in accordance with manufacturer's printed instructions.
- 7.5 Provide ceramic tile, marble tile and accessories complying with Tile Council of America Specification A137.1; colors and patterns to be selected by the owner from standard colors and patterns of the approved manufacturer. Manufacturer to be American Olean for ceramic tile or approved equal.
- 7.6 Install ceramic tile and marble tile in compliance with pertinent recommendations contained in the Tile Council of America "Handbook or Ceramic Tile Installation" and manufacturer's printed instructions.
- 7.7 Provide and install moisture-resistant gypsum wall board at shower/tub enclosures at walls per applicable TCA-B312-03, B413, B419. Provide "Firecode" gypsum when called for on drawings.

8. ELECTRICAL

- 8.1 Contractor shall provide labor and installation for materials, and equipment necessary to install wiring, related fixtures, electric heat elements and control. All work shall comply with the latest edition of national electrical code, state and local codes and ordinances. Subcontractor shall coordinate work with all other trades. Terminal hookup is required of all fixtures and appliances, motors, fans, and controls.
- 8.2 Electrical system layouts are generally diagrammatic, location of outlets and equipment is approximate. Exact routing of wiring and locations of outlets shall be governed by structural conditions and obstructions. Wiring for equipment requiring maintenance and inspection shall be readily accessible.
- 8.3 All electrical equipment, breakers, and time clock controls shall be properly labeled.
- 8.4 The serving utility will provide and install all primary and secondary service raceways and conductors, including transformer pads and connections to the line side by the service utility, shall be provided by the electrical contractor from each building main disconnect to the exterior building line for continuation by serving utility.
- 8.5 Provide one electric meter.
- 8.6 Materials and equipment shall be new and listed by underwriter's laboratories inc. and bear their label wherever standards have been established and their label service is regularly furnished.
- 8.7 Verify and locate all receptacles prior to installation of drywall.
- 8.8 All switched outlets shall be one-half hot (unless noted otherwise).
- 8.9 Provide G.F.I. circuits in the kitchen, bathrooms, garage, exterior locations, and at whirlpool where applicable. Provide trip reset receptacles where noted. Kitchen G.F.I. receptacles shall not be wired in series with other G.F.I. locations.
- 8.10 Install outlets as per local/ state codes. In general, outlets shall be installed so that no point along the floor line in any wall space is more than 6', measured horizontally, from an outlet in that space. In addition, any isolated wall that is 2'-0" in length or longer with the exception of hallways, bathrooms, and laundry rooms will receive an outlet.

8. ELECTRICAL (Continued):

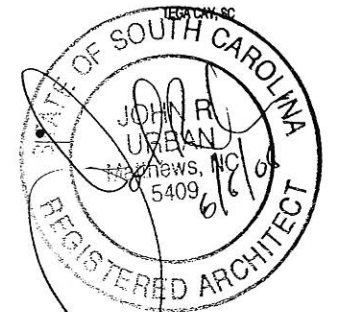
- 8.11 All equipment installed outdoors and exposed to weather shall be weather-proof.
- 8.12 Install receptacles in kitchen and bathrooms above work top unless otherwise noted on plans.
- 8.13 Provide light fixtures per owner's schedule.
- 8.14 Smoke detectors and carbon monoxide detectors shall be located in each story of the dwelling unit, including basements and also in the immediate vicinity of the bedrooms.



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