DIVISION 7 THERMAL AND MOISTURE PROTECTION

07 05 00 FOR THERMAL AND MOISTURE PROTECTION

A. **Standards**: The design shall conform to the current National Roofing Contractor’s Association roofing and waterproofing manual.

B. **Testing**: For all new buildings and significant remodels, an independent envelope consultant will be used to ensure compliance with state building requirements for energy efficiency.

C. **Drainage**: Positive drainage of at least 2% (1/4"/foot) shall be provided on all roofs. Use interior drain pipes whenever possible and penetrate through the building on interior walls only. If exterior drainage is necessary, steps to ensure effective drainage must be taken such as; heat cable, ice and water shield, s gutters, ice and snow guards, etc. A quality cast metal roof drain, Zurn or equal, shall be specified. Scuppers shall not be approved. Roof drain pipes shall be located to allow anticipated roof deflection substrate. Cap all parapet walls with metal copings using standing seam joints. Limit caulking as a water-proofing to a minimum.

D. **Air Tight Construction**: All designs require details ensuring total building envelope air tight construction.

E. **Access**: All roof surfaces shall be accessible. Mount HVAC, walking decks and patios, etc., high enough for roof membrane to be accessible (8" minimum). Provide a minimum of thirty by forty-eight inch (30”x48”) roof hatch, access doors and ladders to all levels of the roof. Provide roof hatches with telescoping safety rails. Provide elevator access to any roof that contains a mechanical room or penthouse.

G. **Thermal and Moisture Barrier Pre-Construction Conference**: Hold a pre-construction conference with all concerned parties in attendance.

07 50 00 ROOFING

A. The preferred system on campus is a four ply built-up with modified asphalt flashings and a gravel finish.

B. USU complies with DFCM Standards and LEED requirements for new roofing systems. Patch and repair of existing roofs will match adjacent systems.
A. Notes about preferred “Icynene” exterior expanding foam cavity insulation