1.1 Design Guidelines

1. Provide positive drainage at all roof areas. Minimum slope is to be ¼ inch per foot, except where not feasible in re-roofing applications. Slope roof deck where possible to minimize amount of tapered insulation.

2. Provide walkway pavers around mechanical units, including a lay-down area equal in size to that of the equipment.

3. Provide a permanent roof access ladder and roof scuttle at all buildings. Locate ladder & scuttle at a service area in the building. See Section 07720.

4. For re-roofing projects, the weight of new roofing and insulation shall not exceed that of existing roofing and insulation. Do not install new roofing over existing roofing.

5. Conduct the following: 1) A Pre-installation conference with roofing manufacturer representative and roofing installer present, and 2) An on-site inspection on re-roofing projects after roofing tear-off to evaluate condition of the substrate.

6. At buildings in which chemicals are discharged thru exhaust fans or ducts at the roof, the interaction of the chemicals with roofing material shall be evaluated.

7. Provide expansion joints in roofing as recommended by roofing manufacturer and as required for other building systems.

8. Minimize number of seams in roofing. A seam layout drawing is to be submitted by the Contractor.

9. At parapet walls, extend membrane flashing over top of wall under coping.

1.2 Performance Standards

1. The roofing system shall comply with the following standards:
   b. UL Class A Fire Hazard rating
   c. FM Class I Assembly rating; I-90 uplift rating.

2. A ten year labor and materials warrantee is to be provided for the entire roofing and insulation system. The roofing system design is to be based on a 20 year lifespan.

3. All material is to be supplied by a single source, with exception of metal edge flashings.

4. Installers shall have minimum 5 years experience with specified products and be approved by the roofing manufacturer. A letter is to be supplied by the roofing manufacturer to verify acceptability of the installer.
PART 2 PRODUCTS

2.1 System Description

1. The roofing system is to be a fully adhered or ballasted EPDM membrane, 0.060 inches thick. The fully adhered system is preferred. Mechanical insulation fasteners should be avoided at concrete and gypsum decks.

2. Roofing insulation is to be Expanded Polystyrene or aged Polyisocyanurate foam, with a minimum R value of 30. Insulation value is to comply with current energy code requirements. Insulation manufactured using CFC’s should be avoided.

3. Manufacturer’s standard roofing details are to be used. Any non-standard details are to be reviewed and approved by roofing manufacturer prior to installation (including metal edge flashing).

2.2 Acceptable Manufacturers

1. Firestone
2. Carlisle