070000  THERMAL & MOISTURE PROTECTION

PART 1:  GENERAL

1.01 This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information into specifications or in notes on drawings. Request for variance, questions and comments regarding this document should be directed to Cornell University’s Facilities Engineering, Roof Asset Management (RAM) Program.

1.02 GENERAL GUIDELINES

A. Re-covering roofing is highly discouraged. It will be permitted only when it is to apply temporary layover protection for extraordinary water infiltration conditions. Exceptions will only be considered if conditions meet the requirement of New York State Building Code R907.3 Re-covering versus replacement. Under no circumstance are more than two (2) layers of roof systems allowed. When re-covering roofing is considered it will be the responsibility of the design professional to verify the structural and loading capacities of the structure before application.

B. Fixed Equipment Inventory is required of all roofing projects, regardless of size or scope. The University RAM Program has panel diagrams for each existing building and will make them available to Designers and Contractors.

1. Contractors will be required to complete a Roof System Inventory Data Loader identifying individual roofing panels with its unique identifier and the work done. This is described in the General Requirements, Section 017822 of Cornell’s contracts. Where General Requirements are not part of a roof project contract, the Owner will supply this to the Contractor directly.

2. Designers will be required to reference these unique identifiers on project documents, identifying any panel impacted by the work.

C. Protection will be required for all new and existing roofing during project work. The level and type of protection as well as materials should be identified in project documents by the design professional.

D. Warrantees on roofing shall include the unique identification number that correlates with the Fixed Equipment Inventory to clearly identify the location of the warranted work.
1.03 MATERIAL GUIDELINES

A. SHEET WATERPROOFING

All sheet membrane products used on campus must meet the appropriate standards of ANSI and ASTM.

B. ASPHALT SHINGLES

Asphalt shingles are to be hand nailed, do not use nail guns. This is to ensure that all nails fall in the manufacturer’s “sweet spot” (the nailing band on the shingle). Just as important is that the nails are set to the proper depth, not under sunk or over sunk (tearing the shingle).