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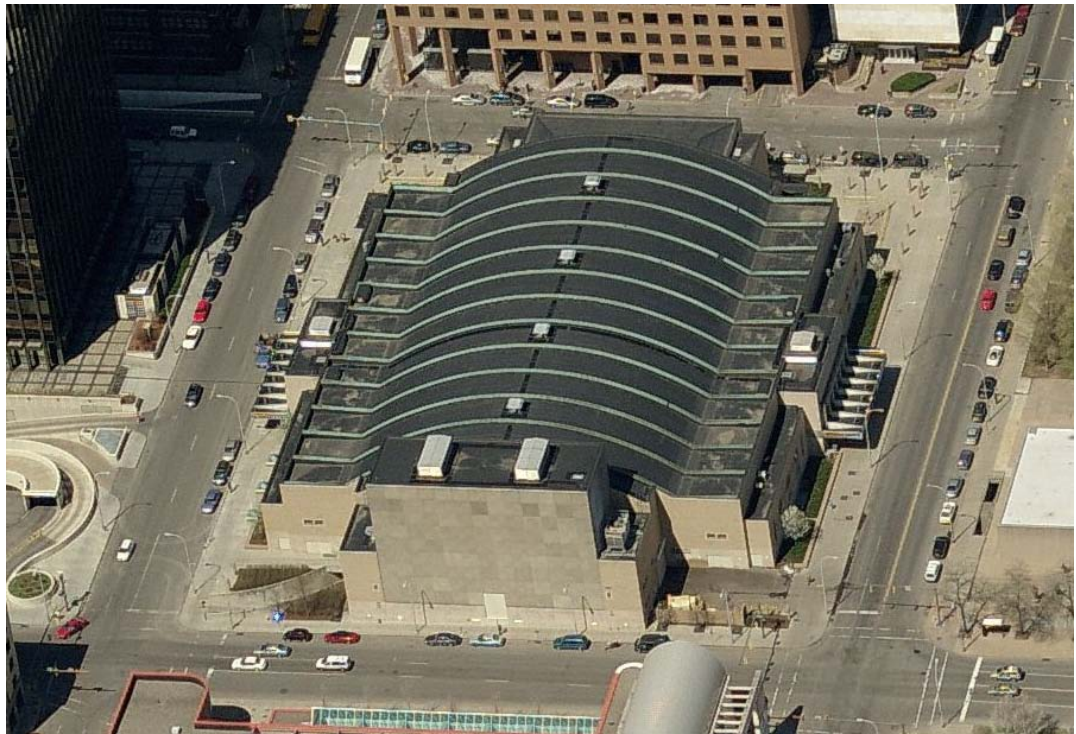
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ONONDAGA COUNTY

WAR MEMORIAL Roof Replacement



Aerial view looking north

Owner:
Onondaga County
Syracuse, NY

Size or Cost:
\$4.5m



A roof view



Roof view looking north

Originally constructed between 1949 and 1950, the Onondaga County War Memorial is listed on the National Register of Historic Places as the first thin-shelled concrete roof structure built in the country.

In 1990, this historic building was reroofed with an exposed synthetic rubber (EPDM) roofing membrane.

A moisture survey revealed all flat roof areas to be leaking and wet, while the barrel vault was dry. Mechanically fastening roofing assemblies to the thin-shelled concrete barrel vault roof deck over a long term building life span would have weakened the deck.

As a sustainable solution which would not require repetitive reroofing over the life of the building, a zinc-coated stainless steel

roofing system was chosen. This was used as a roof recovery system over the dry insulation of the barrel vault with an expected life span of 80 to 100 years. A gravel surfaced modified asphalt roofing system was chosen for flat roof areas. As a sustainable material the zinc-coated stainless steel can be recycled indefinitely without loss of its physical or chemical properties after it reaches its useful life. Runoff rainwater from this system, unlike lead-coated materials, will not contaminate the groundwater. Construction cost: \$4.5m

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