

**General Description:**

- **Location:**  
Battle Creek, Michigan
- **Profile:**  
Corporate Building
- **Project:**  
Roof Replacement

**Services Provided:**

- Evaluation
- StructureScan Survey
- Design Development
- Construction Documents
- Bidding
- Field Quality Assurance

**Challenge:**

- Inadequate provision for the tie-in of the new building into the existing at wall transition
- Areas of ponding and standing water

**Solution:**

- Redesigned base flashing/ expansion joint detail to accommodate movement
- Designed tapered insulation, crickets, and saddles

## Kellogg Company *McCamly Place*

Kellogg Company, the world's leading producer of cereal, was experiencing significant leakage problems at McCamly Place, one of their corporate buildings that there was inadequate provision for expansion and contraction between the two buildings. There were also significant areas of ponding water on the roof. Structure

Tec then began designing the roof replacement. A built-up roof was chosen as the best solution, yielding the best life-cycle cost for Kellogg. The first challenge StructureTec tackled was with the tie-in. This was solved by redesigning the base flashing/expansion joint detail along the wall



*Aerial overview of McCamly Place and Kellogg Arena.*

StructureTec was contracted to evaluate and perform a StructureScan survey of McCamly Place, which is tied into the Kellogg Arena. During the evaluation, StructureTec found that the roof was deteriorated beyond repair and would require replacement. It was also determined that extensive leakage was occurring along the building transition between McCamly Place and Kellogg Arena, noting transition to accommodate movement and maintain watertight integrity for the wall and the roof. StructureTec then solved the chal-



*Overview of completed roof replacement.*



Web: [www.structuretec.com](http://www.structuretec.com)  
Email: [geninfo@structuretec.com](mailto:geninfo@structuretec.com)

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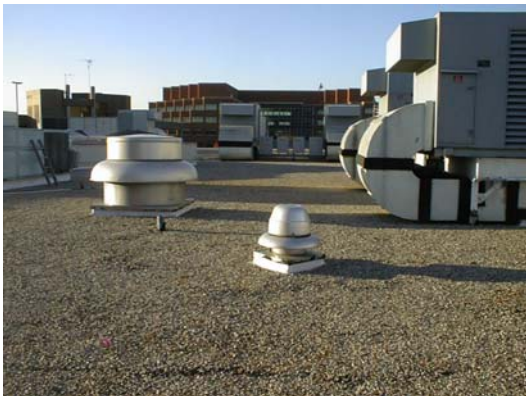
*A new tie-in was designed along the wall transition to accommodate movement and maintain watertight integrity.*



*Tapered insulation, crickets, and saddles were installed, particularly around projections, to provide water dispersion.*

length of the ponding water by designing tapered insulation crickets and saddles, particularly around various rooftop projections, to allow positive water dispersion toward the roof drains. After the design was complete, construction documents were written and the project was put out to bid. StructureTec completed Field Quality Assurance during construction in order to ensure that the highest quality was maintained throughout the project.

In conclusion, Kellogg Company had a new, built-up roof with the necessary provisions for positive water dispersion, as well as expansion and contraction at the wall tie-in. This durable roof, known for its longevity, will provide Kellogg Company with the maximum return on investment. ■



*The new built-up roof, known for its longevity and durability, will provide Kellogg Company with the maximum return on investment.*

<u>FEATURES</u>	<u>BENEFITS</u>
Designed built-up	Durable for longevity
Designed new counter-flashing system	Prevents moisture ingress behind flashing detail
Provided field of the roof metal flashing details	Long-term details requiring minimal maintenance over the service life
Life-cycle cost (high rating for longevity)	Maximizes the return on investment
Provided Field Quality Assurance	Ensures higher quality end product
Designed tapered insulation	Allows water to flow toward the drains

Total Building Envelope Management Solution<sup>SM</sup>

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(800) 745-7832