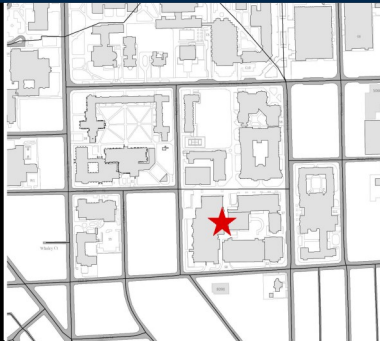




STORM WATER MANAGEMENT PROJECTS



Stephen M. Ross School of Business Storm Water (Main Building and Kresge Library)

In 2008-2009, the Stephen M. Ross School of Business building and Kresge Library addition were constructed together as a LEED® Silver certified project with a variety of storm water controls including a green roof, rain garden, porous pavement, underground infiltration chambers, and an underground water quality device. Refer to the separate project sheet for the 2015 construction of Jeff T. Blau Hall.

Requirements: The disturbed area was greater than one acre triggering adherence to U-M Storm Water Permit Post Construction requirements that were in effect during the project. Requirements included the following:

Drainage Area:
2.58 acres

Watershed Protected:
Storm sewers in this area discharge to Allen Creek at Hill St.

Soil:
Well-drained sandy soil

Construction Completed:
2009

- Storm Water Control Measures:**
- Water quality device
 - Underground infiltration chambers
 - Green Roofs
 - Rain Garden
 - Porous Pavement

- U-M Maintenance:**
- Removing sediment from water quality device
 - Vacuuming porous pavement
 - Maintaining vegetation



U-M Storm Water Permit Requirements (Per Permit MI0053902; Issued 2001)	Constructed
Protect Receiving Water Quality: Include storm water control measures to improve water quality.	Approximately 63,000 gallons (8,400 cubic feet) of storm water are retained on-site through infiltration and/or evapotranspiration using underground infiltration chambers, a rain garden, porous pavement, and green roofs during the 25-yr, 24-hr storm.
Limit the Rate of Runoff to not exceed the Rate in the Pre-Project Condition: Include storm water control measures such that the post-project runoff rate will not exceed the pre-project runoff rate.	

Performance: There is an approximate 28% reduction in runoff and at least a 28% reduction in peak flow compared to the pre-project condition during storms up to and including the 25-year, 24-hour design storm. Runoff not directed through a vegetated practice or porous pavement is treated through an underground water quality device.

Benefits: This system helps to remove runoff volume and peak flow from City storm lines and Allen Creek Drain; provides water quality treatment; reduces flooding; and promotes groundwater recharge.

