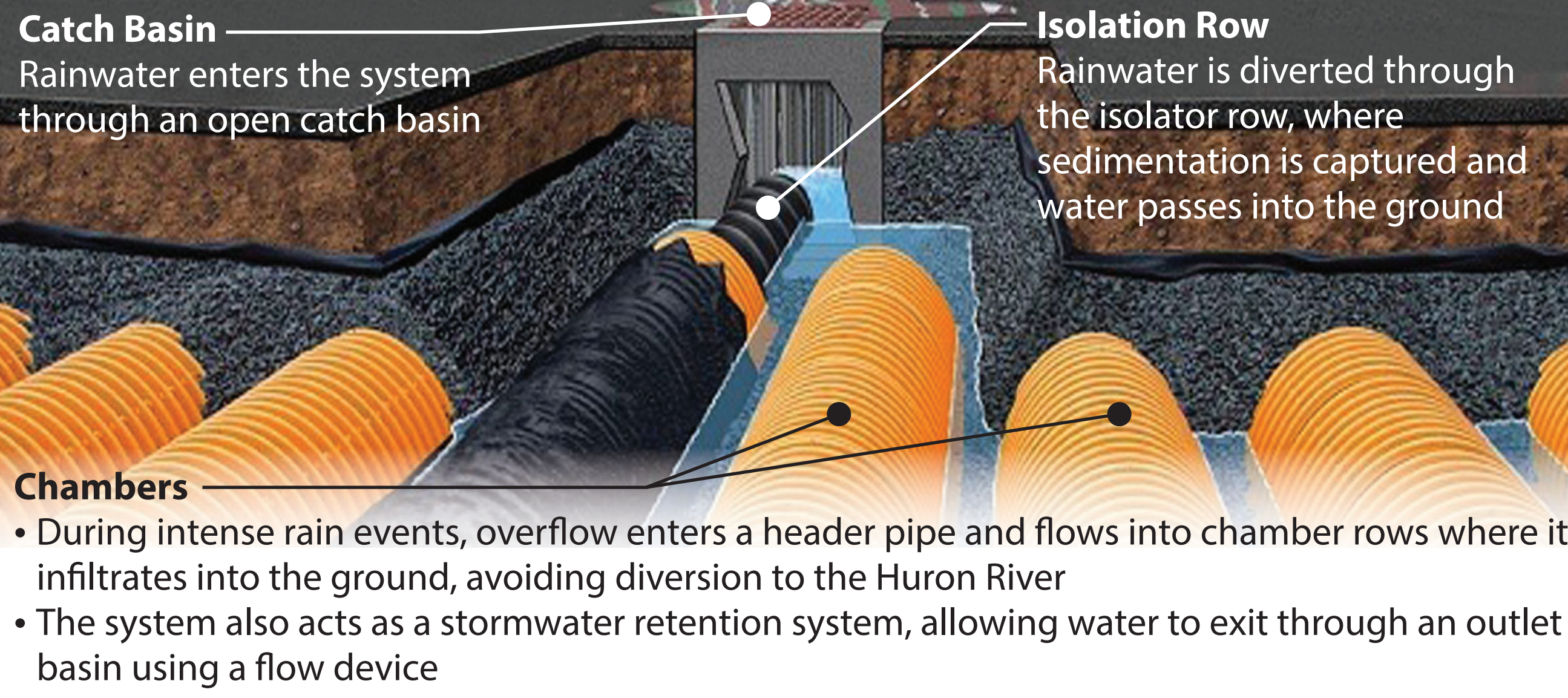




# Project Description

The New Dance Building is located on North Campus adjacent to the Earl V. Moore Building and an existing woodland lot. The new 24,000 gross square foot building includes four large, flexible studio classrooms, a 100 seat performance venue, cross-training, faculty offices, and administrative spaces.

The new facility provides space for all dance faculty and students to work together in one building, while the new Dance Building's proximity to other School of Music, Theatre & Dance departments (SMTD) on North Campus promotes innovation and collaboration between the different SMTD disciplines.



## Window-to-Wall Ratio

- Optimum window sizing and placement (26.5% window-to-wall ratio) maximizes thermal performance
- 92% of regularly occupied areas have a direct view to the outside, connecting to the wooded setting



## Project Location: North Campus

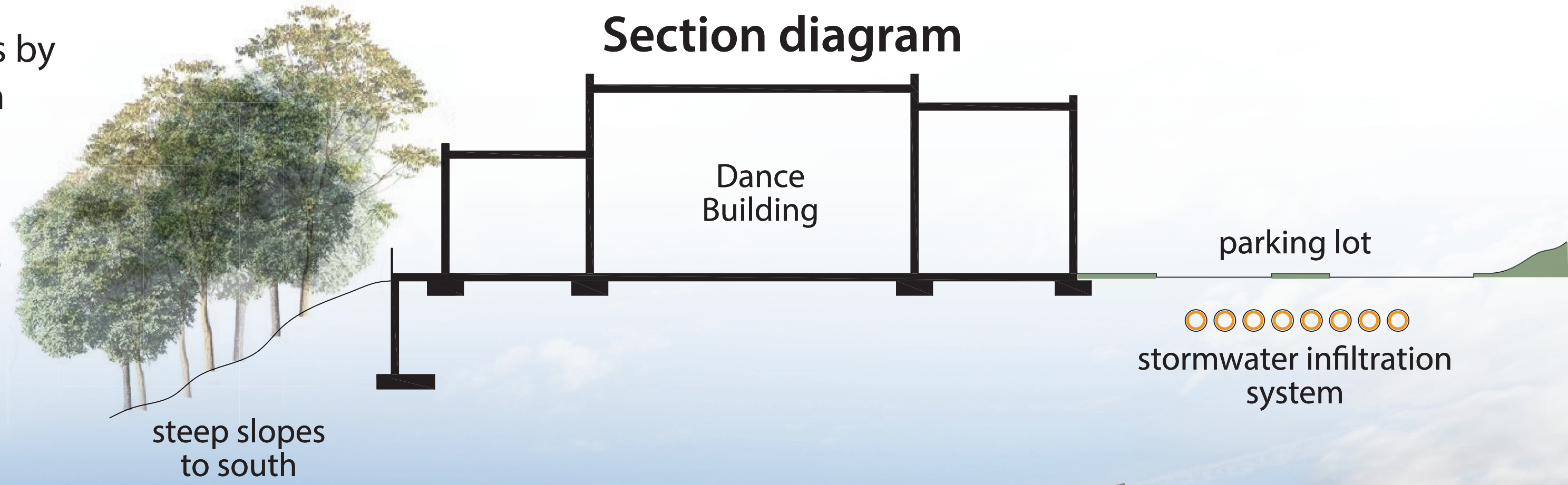


## Stormwater Management ▲

An underground infiltration bed replicates the natural site hydraulic process by recharging groundwater, providing 11,060 cubic feet of rainwater detention

## Woodland Stewardship

- Site restoration included canopy trees consistent with species found in the existing woodland as well as other species native to Southeast Michigan to increase diversity
- The landscape focuses on the wooded setting of North Campus with minimal use of landscape beds and mowed lawn areas



## Sustainability Facts

**New Dance Building**  
 Building Use: School of Music, Theater and Dance  
 Location: Ann Arbor, Michigan  
 Size: 24,000 Square Feet  
 Number of Occupants: 405 Daily Average

LEED version	v4
LEED certification level	Silver
ASHRAE 90.1 version	2013
Energy cost savings compared to ASHRAE baseline	26%
Total energy savings	\$9,654 / year
Total electrical savings	67,682 KWh / year
Total gas savings	2,310 Therms / year
CO2 emissions avoided	66.2 Metric Tons
Water fixture baseline	2015 Michigan Plumbing Code
Total water savings	35%
Construction/Demolition waste diverted from landfill	76%

Insulation (R-Value)*	Code	Project
Wall assembly - above grade CMU block	18	17
Wall assembly - above grade Insulated Metal Panel	18	22
Wall assembly - below grade	7.5	10
Roof assembly	30	30
Glazing - Curtain wall system		
U-value**	0.55	0.33
Solar Heat Gain Coefficient (SHGC)**	0.40	0.26
Visible Light Transmittance (VT)***	1.10	0.56
Glazing - Fixed assembly		
U-value**	0.42	0.42
Solar Heat Gain Coefficient (SHGC)**	0.40	0.26
Visible Light Transmittance (VT)***	1.10	0.50

Project Team	
Owner	University of Michigan - School of Music, Theater and Dance
Architect	TMP Architecture, Inc.
Engineer	Peter Basso Associates, Inc.
Contractor	Kasco, Inc.
Commissioning Authority	U-M AEC
Project Management	U-M AEC

Design Period: 05/2018 - 07/2019  
 Construction Period: 09/2019 - 02/2021

**planet blue**  
UNIVERSITY OF MICHIGAN

\* The higher the R-value the better the insulating quality  
 \*\* The lower the U-value and SHGC the more energy efficient the window  
 \*\*\* The higher the VT value the more daylight in the space. VT is measured between 0 and 1