

# UTM MAJOR CAPITAL PROJECTS: Status Report

UTM Campus Affairs Committee  
May 3, 2018

# Major Capital Projects

- Level 2 ( \$5-20 Million)
  - Strategic Infrastructure Fund (SIF) Projects
  - Robotics
  - Greenhouse Gas Reduction Program (GGRP)
- Level 3 ( \$20+ Million)
  - North 2
  - Davis Building - Phase 2
  - Science Building



# SIF PROJECTS

# SIF Laboratories & Lab Infrastructure

- ❑ Original submission \$17.1M
- ❑ Grant amount 50%
- ❑ 1 Year to implement
- ❑ Status: 99% complete

- ❑ SIF A Wing Fume Hood renewal
- ❑ SIF Electrical Remediation
- ❑ SIF DV A Wing HVAC
- ❑ SIF Backup power
- ❑ Research lab reno





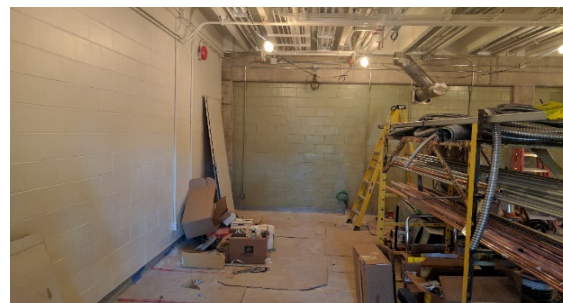
# (SIF) 3rd Floor Medicinal & Molecular Lab

- ❑ Completed in three phases (occupied floor)
- ❑ Designed for 4 Principal Investigators
  - Organic CHM complete and occupied
  - Two BIO complete and occupied
  - One BIO in progress (April completion)

*before*



*after*



# (SIF) 1st FLOOR BIOLOGY & FISH LAB

- ❑ Large laboratory over 460nasm
- ❑ Designed to support three functions
  - Specialized fish research facility
  - Molecular Biology – four new hires
  - Expansion of Cell Culture & Microscopy Suites

*before*



*after*





# GGRP Greenhouse Gas Reduction Program

- ❑ Governing Council Approval – Dec 14, 2017
- ❑ Program submission \$24M
  - Single Year Innovation
  - Multi Year Innovation
  - Retrofit Grant
  - Loan Fund
  - UTM Operating

## Project examples:

- ❑ HVAC improvements (campus wide)
- ❑ Hot water (Student Center, DV, OPH)
- ❑ Solar parking (CCT garage)
- ❑ Window replacement (DV)



# GGRP Greenhouse Gas Reduction Program

Building	Project Name	Type	Project Value	Status	Completion Date	Funding Source
CCT	(GGRP) VFD Replacement	Infrastructure	450,000	In progress	April, 2019	Retrofits Grant
Kaneff	(GGRP) RTU Replacement Phase I	Infrastructure	750,000	In progress	April, 2019	Retrofits Grant
RAWC	(GGRP) HVAC & Solar Retrofit	Infrastructure	4,500,000	In progress	April, 2019	Single Yr. Innovation
Davis BC	(GGRP) HVAC Retrofit	Infrastructure	3,000,000	In progress	April, 2019	Single Yr. Innovation
Kaneff	(GGRP) RTU Replacement Phase II	Infrastructure	1,000,000	In progress	April, 2019	Single Yr. Innovation
Campus Wide	(GGRP) Real Time Energy Dashboard	Infrastructure	100,000	In progress	April, 2019	Retrofits Grant
Alumni House	(GGRP) Heating & DHW Boilers Retrofit	Infrastructure	220,000	In progress	April, 2019	Retrofits Grant Loan Fund
Davis	(GGRP) Windows Upgrade	Infrastructure	1,600,000	In progress	April, 2021	UTM Operating
CUP	(GGRP) Chiller Retrofit and Optimization	Infrastructure	4,000,000	In progress	April, 2021	Multi Yr. Innovation
Student Centre	(GGRP) RTU and DHW Replacement	Infrastructure	500,000	In progress	April, 2021	Multi Yr. Innovation
Erindale Hall	(GGRP) Chiller, Heating & DHW Boilers Retrofit	Infrastructure	750,000	In progress	April, 2021	Multi Yr. Innovation
O.P. Hall	(GGRP) Heating & DHW Boilers Retrofit	Infrastructure	850,000	In progress	April, 2021	Multi Yr. Innovation
Davis ABCD	(GGRP) DHW Instantaneous HX	Infrastructure	100,000	In progress	April, 2021	Multi Yr. Innovation
Erindale Theatre	(GGRP) RTU Retrofit	Infrastructure	400,000	In progress	April, 2021	Loan Fund
CCT	(GGRP) Parking Solar Thermal	Infrastructure	6,000,000	In progress	April, 2021	Multi Yr. Innovation
			<b>24,220,000</b>			



# IN PLANNING: ROBOTICS

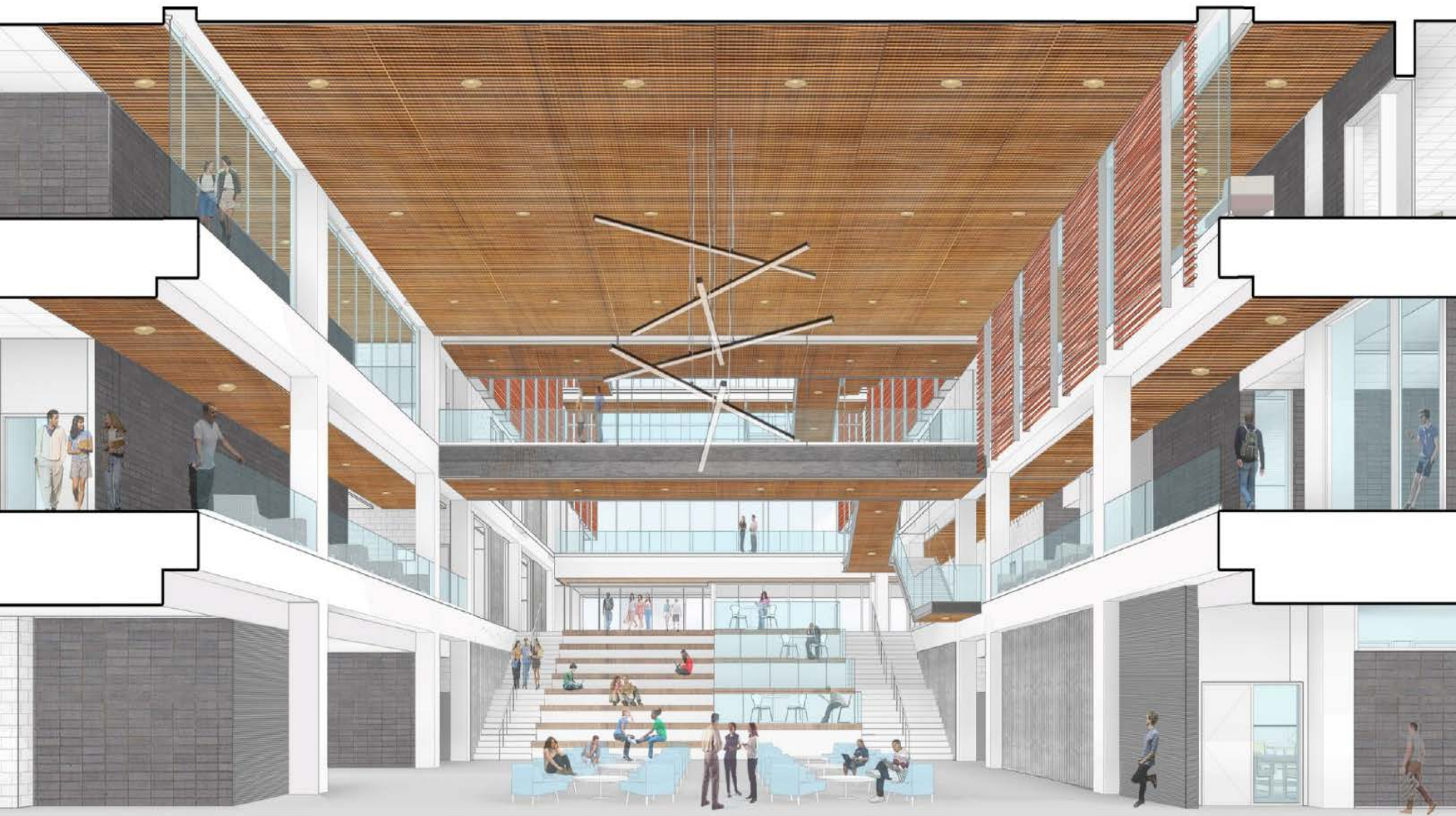
- Flying lab
- Ground vehicles lab
- Computational lab
- Storage space
- Offices for faculty/graduate students
- Office support space

# Nearing Completion: NORTH2

- Design-build: Stuart Olson/Perkins Will
- \$121.2 million (Const. = \$89m)
- 10,247 nasms (220,595 gross square feet)
- Offices & Research Space
  - English & Drama
  - Sociology
  - Political Science
  - Philosophy
  - Language Studies
  - Historical Studies
- Classrooms & Study Space
- Facilities Management & Planning
- Special Event Space







North Hall Looking West



# North2 STATUS

- Substantial Completion: May 15, 2018
- Partial Occupancy: June 4, 2018
- Full Occupancy: June 25, 2018
- Completion: July 21, 2018
- Currently: on schedule
- Tracking On-budget

# North2 STATUS



# North2 STATUS





# North2 STATUS





# North2 STATUS



# IN CONSTRUCTION: DAVIS2

- First approved-in-principle as phase of Davis redevelopment in 2006
- A new “living room” for the campus:
  - Seating for 1,000; permanent food court;
  - 920sm new space + 2,814sm renovated
  - New front/main entry to Davis
  - Revised drop off + transport hub

# IN CONSTRUCTION: DAVIS2

- Governance Approval - Oct 26, 2017
- Detailed Design - Completed
- Design Architect - Moriyama/Teshima
- Demolition Underway - Phased
- Award Construction: March, 2018 - completed
- New Food Court: September 2018
- Full Occupancy: July, 2019



# PROJECT SCOPE

## Renovations Include

**Existing Space**

**Former Office of  
the Registrar Space**

**Exterior Elements:  
Main Entrance &  
Back Terrace**

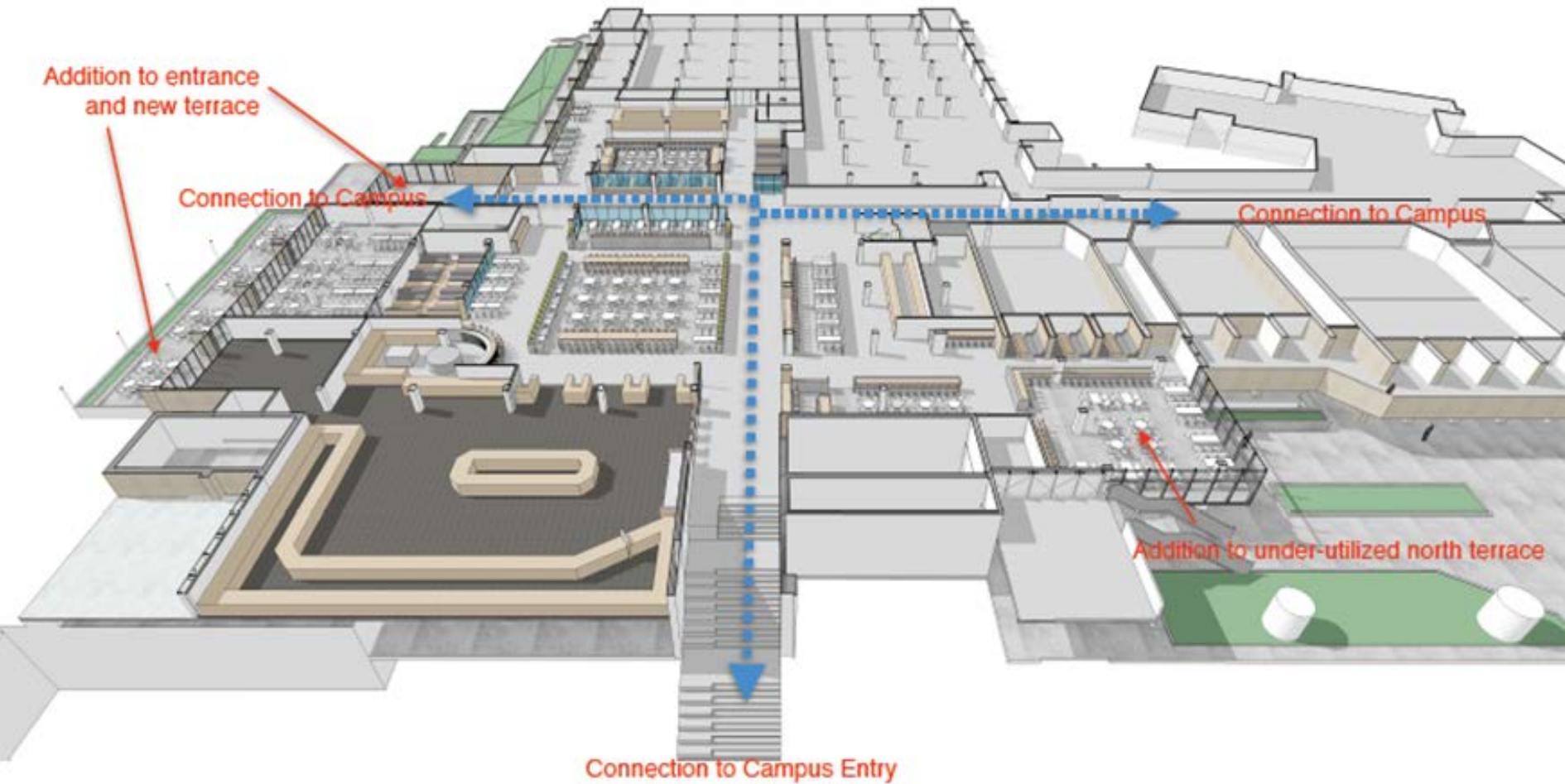
**Total of 3618 gsm  
(2490 nasm)**



# NEW FRONT of DAVIS



# PROPOSED DESIGN





# INTERIOR WITH FLEXIBLE LAYOUT





## INTERIOR: VIEW FROM 3<sup>RD</sup> FLOOR





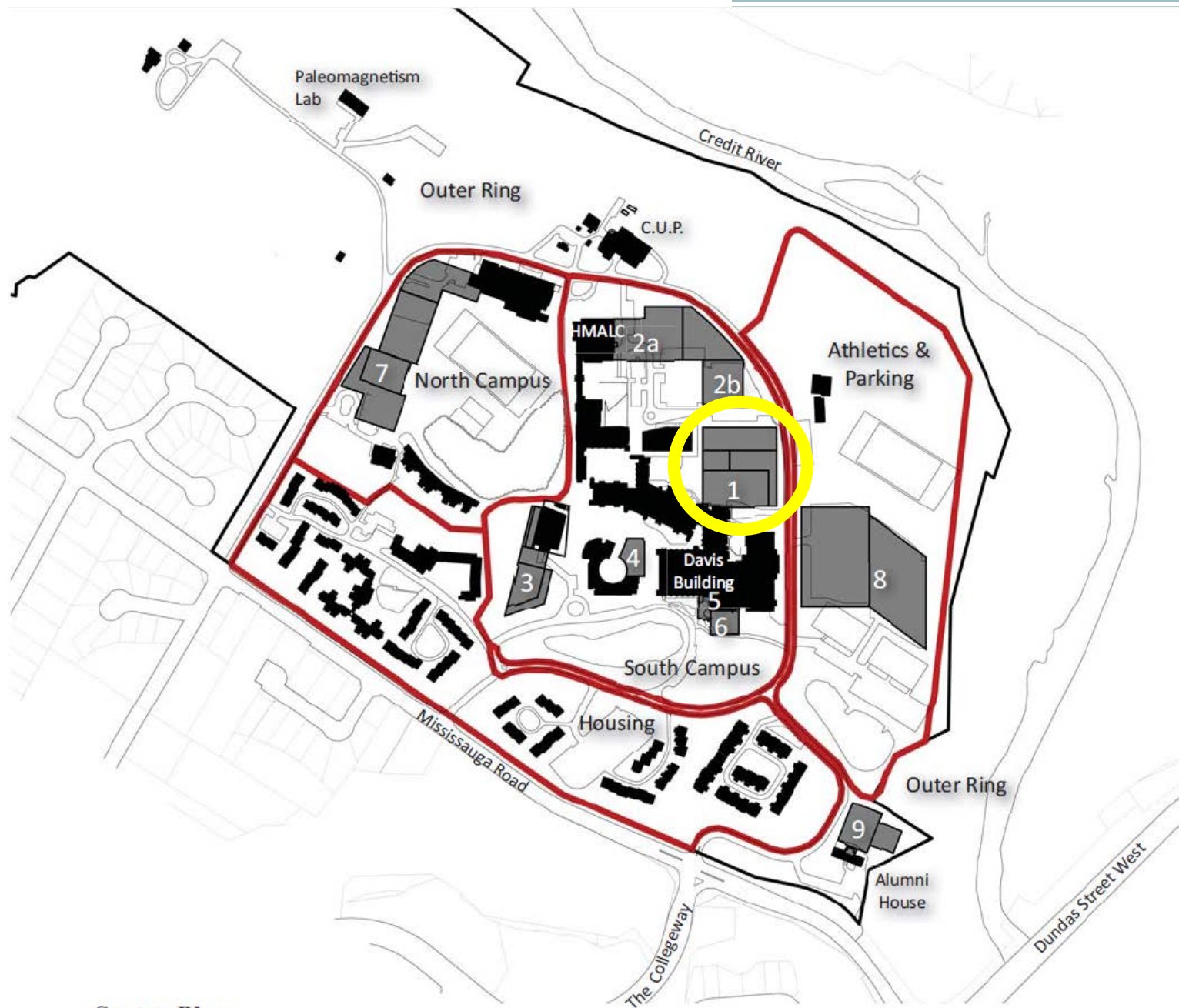
# REAR ADDITION

- Integration of new massing with existing building



# IN DESIGN: SCIENCE BUILDING

- 15,476 gsm (166,582 gross square feet)
- Largest Capital Project at UofT
- Centre for Medicinal Chemistry
- Wet research lab cluster
  - CPS/Bio/Forensic Sciences
- Research Computing Data Centre
- Facilities Support Space



Sector Plan

# SCIENCE BUILDING: TARGETS/STATUS

- Governance Approval: December 14, 2017
- Architect Awarded: March 2018
  - Kieran Timberlake
- Design: Summer/Fall 2018
- Award construction: Fall 2019
- Occupancy Target: December 2021





# MAJOR CAPITAL PROJECT REPORT

## QUESTIONS