St. Olaf Framework Plan 2016

February 19, 2016

ST · OLAF COLLEGE

Agenda

Welcome

Schedule/Process

Planning Principles Review

Space Needs Review

Campus Analysis Review

Poster Feedback Session

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OUR NEXT STEPS:

Framework Plan Tasks + Dates

2/19 **Campus Review**

2/22 Concept Development

3/4 Study Group Feedback

3/18 Steering Committee Review

4/1 Study Group Feedback

4/22 Campus Review + Prioritization

5/6 Board of Regents Review

5/13 Final Presentations + Reviews

6/30 Issue Final Report

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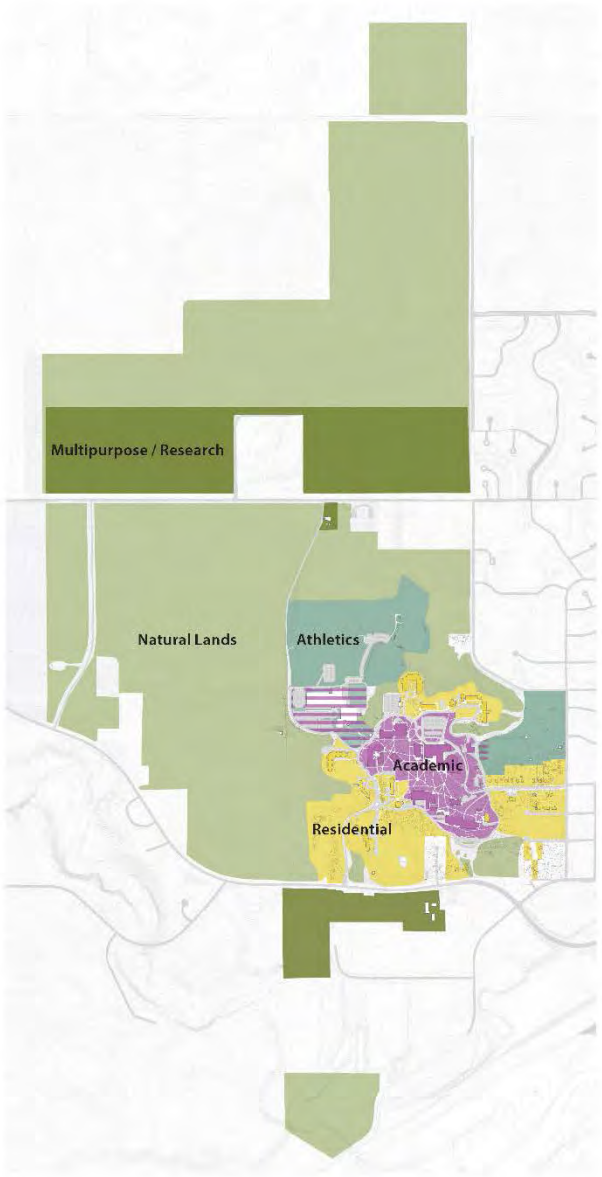
1. Establish Land Use Zones for Similar Functions



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2. Develop and Preserve the Campus Greenbelt

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5. Concentrate Athletics Facilities Below Campus Core

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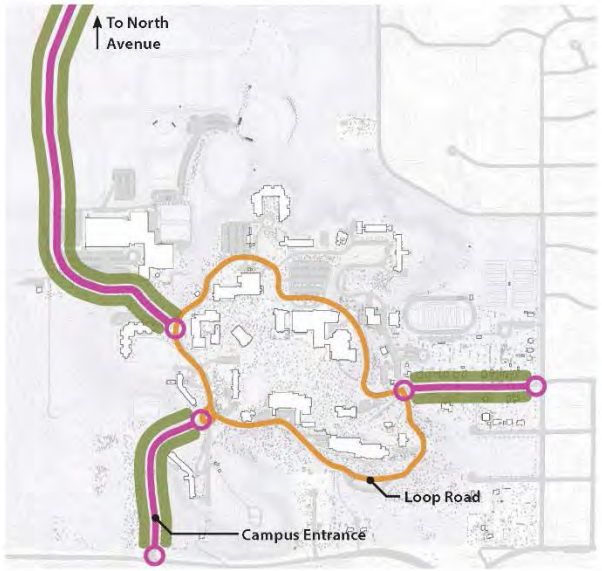
6. Create Welcoming Campus Entrances



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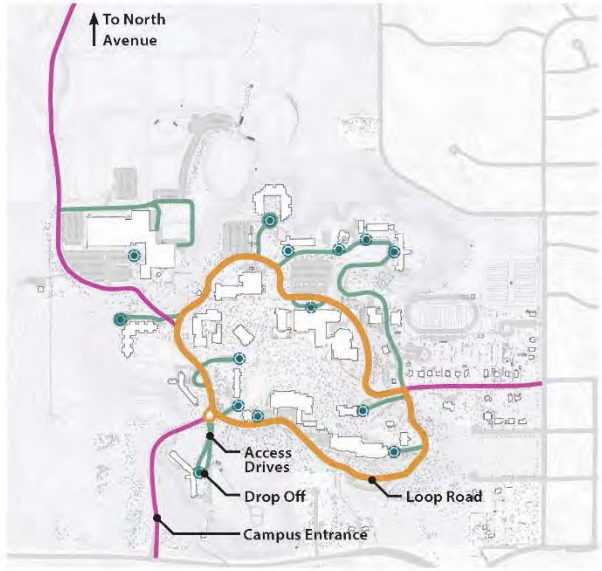
7. Maintain a Welcoming Loop Road with Access Drives and Drop Offs



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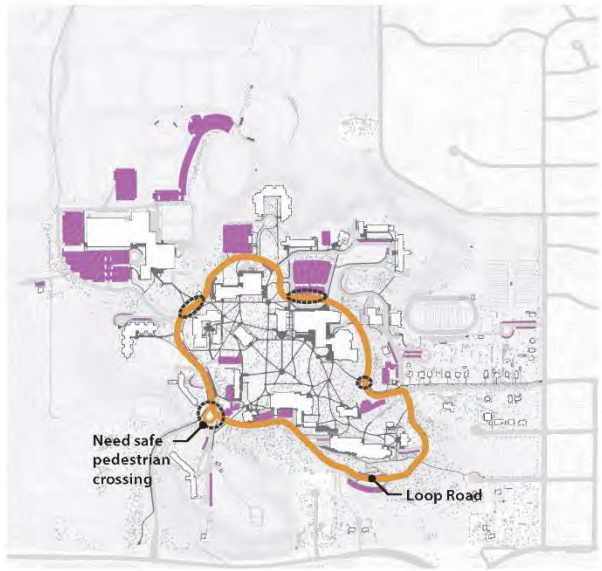
8. Create a Safe, Secure, Accessible Pedestrian Core, with Parking on the Edge, and Safe Crossings



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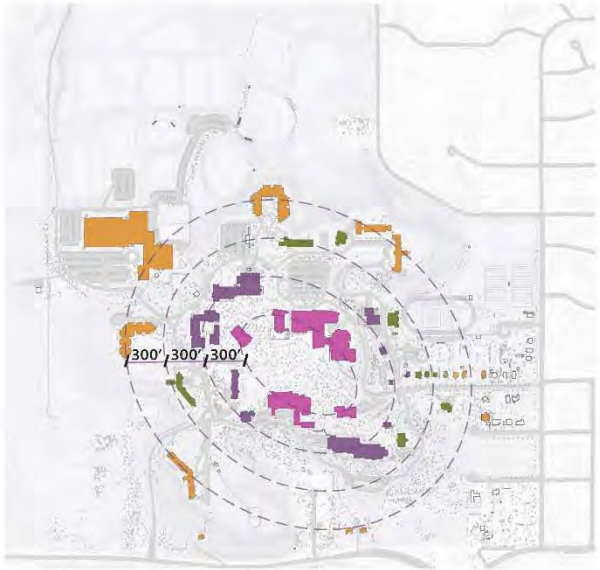
9. Site Buildings and Campus Amenities in Informal and Concentric Development Patterns



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10. Use Consistent Palette of Building Materials - Which is Harmonious with Campus Context

Old Main Hall

Steensland Hall

Mellby Hall

Kelsey Auditorium

Holland Hall

Regents Math Building

Skifter Hall

Thorson Hall

Hilleboe Hall

Boe Memorial Chapel

Kildahl Hall

Kittelsby Hall

Ellingson Hall

Hoyme Hall

Tomson Hall

Mohn Hall

Larson Hall

Dittmann Hall

Skoglund Athletic Center

Christiansen Hall of Music

Rand Hall

Ytterboe Hall

Buntrock Commons

Tostrud Athletic Center

Regents Hall

Art Barn

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11. Diversity on display - both interior and exterior

12. Adaptive / Resilient to change - program, climate, technology, funding, and economy

13. Sustainable water / energy / food systems and management

14. Build / renovate what can be maintained with excellence.

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15. Operate the campus and programs while emitting the least amount of greenhouse gases practical, working toward zero.

16. Practice deliberate, iterative and annual Scenario Planning to stay current and nimble over the next few decades.

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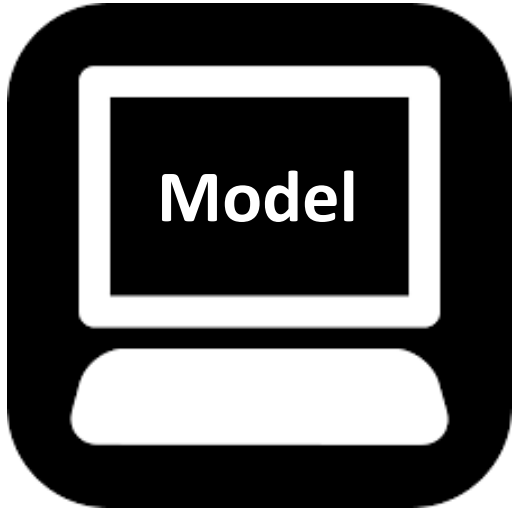
Space Analysis Process

Guidelines
- Nat'l Standards (CEFPI)
- Peer/Aspirational Schools
- Customized Standard

Data
- Building Inventory
- Enrollment
- Staffing Levels
- Course Information
- Etc.



Calculate Space Need

Stakeholder Input
- Steering Committee
- Leadership Committee
- Study Groups
- Others

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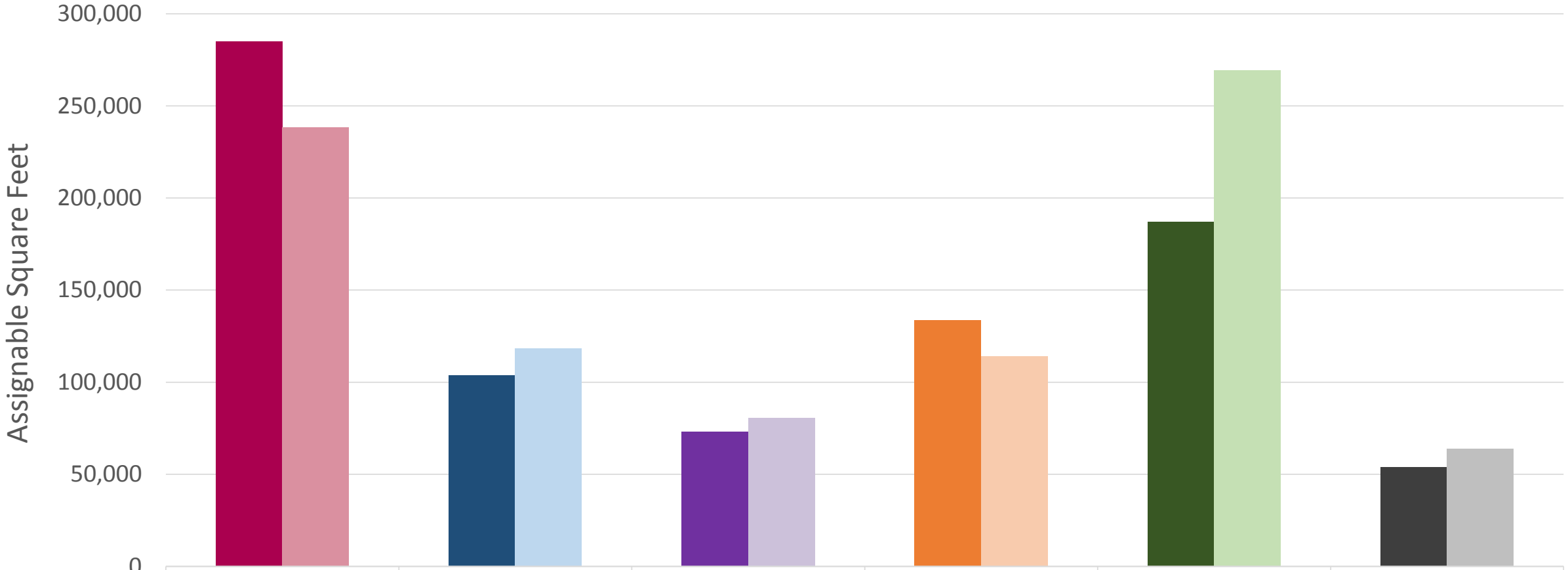
ST. OLAF CAMPUS SPACE NEEDS BY GENERAL USE CATEGORIES



	ACADEMIC: Classrooms/Labs, Research, Offices, Media, e-Learning	LIBRARY/STUDY SPACE	ADMINISTRATION	STUDENT LIFE: Assembly, Food/Retail, Lounge, Exhibition, Conf Rooms, Clinic	ATHLETICS/ RECREATION	FACILITIES SUPPORT SERVICES
CURRENT	284,981	103,768	73,057	133,694	187,091	53,933
GUIDELINE	238,333	118,451	80,600	114,315	269,340	64,019

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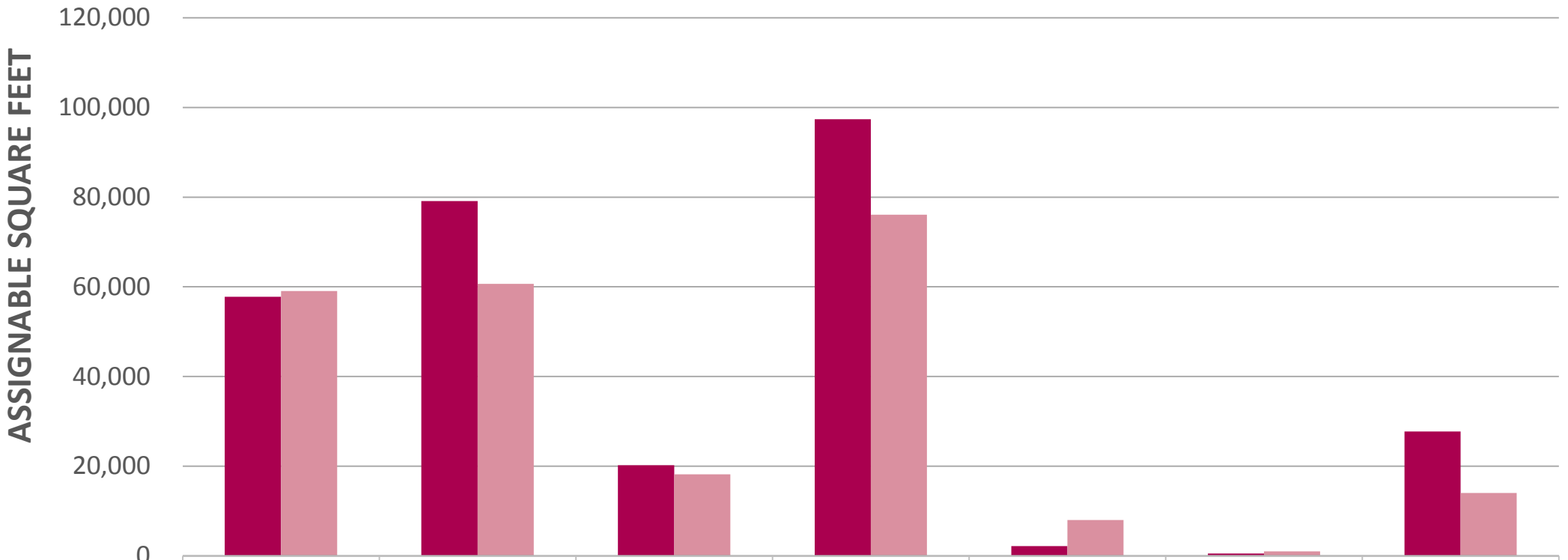
ST. OLAF CAMPUS
ACADEMIC SPACE NEEDS



	100.10,15 - General Classrooms	200.10,15 - Instructional Labs/Specialty Rooms	200.20,25 - Open Labs/Specialty Rooms	300.10,15 - Academic Offices	500.30,35 - Media Production	700.11 - e-Learning Support	RESEARCH 250, 570, 580
CURRENT	57,768	79,106	20,248	97,374	2,209	540	27,736
GUIDELINE	59,067	60,680	18,204	76,090	8,034	1,001	14,044

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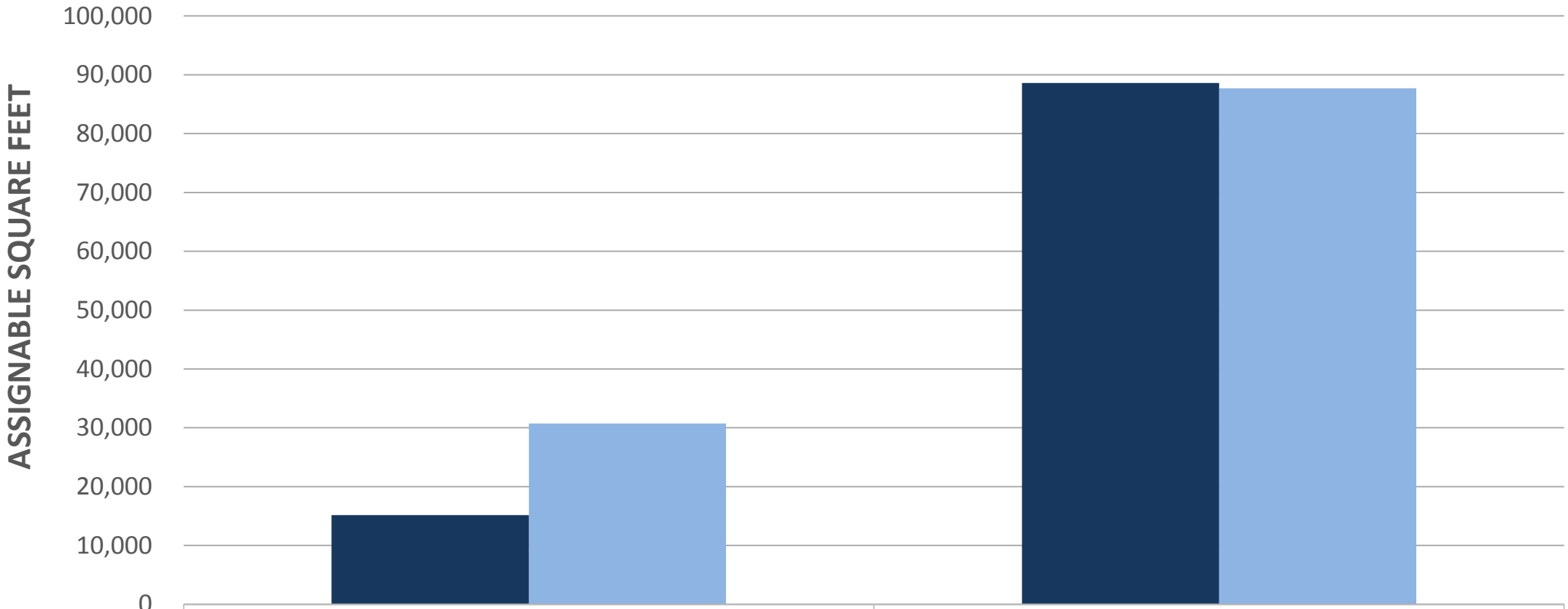
ST. OLAF CAMPUS
LIBRARY/STUDY SPACE NEEDS



	400.10,55 - Study/Study Service	400.20,30,40 - Stacks/Processing
CURRENT	15,160	88,608
GUIDELINE	30,750	87,701

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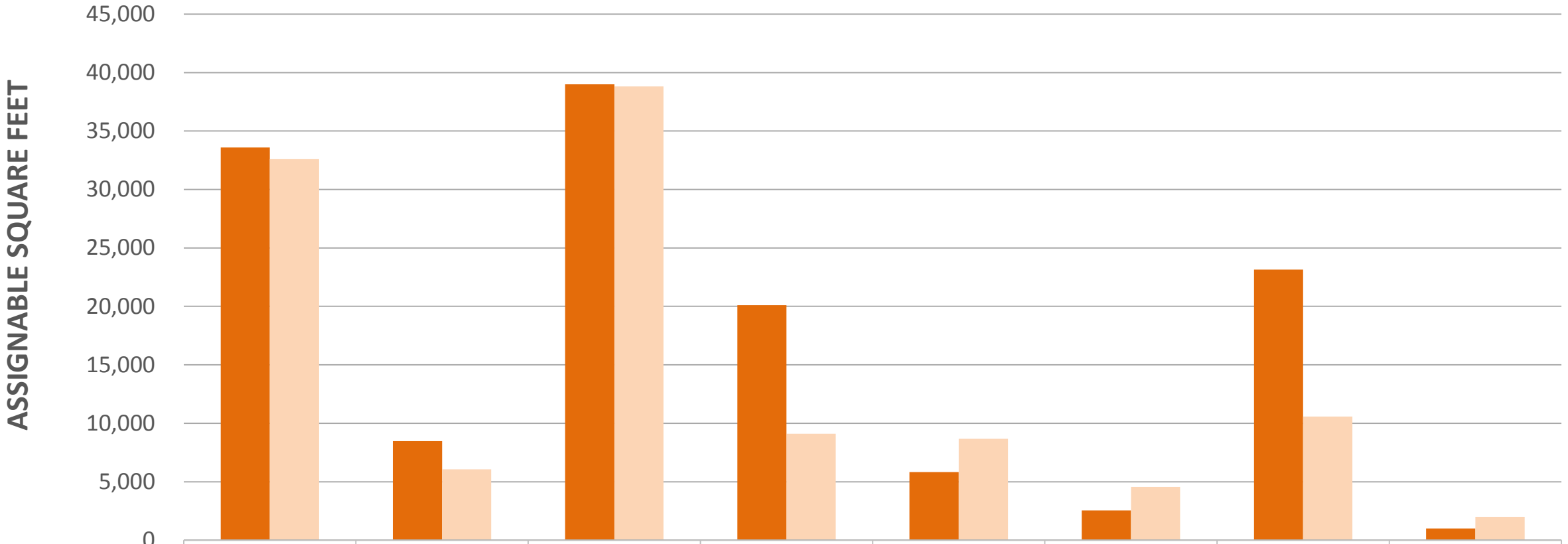
ST. OLAF CAMPUS
STUDENT LIFE SPACE NEEDS



	600.10,15 - Assembly	600.20,25 - Exhibition	600.30,35 - Food Facility	600.50,55 - Lounge	600.60,65 - Merchandising	600.70,75 - Informal Recreation	600.80,85 - Meeting Room	800 - Student Healthcare
CURRENT	33,590	8,482	38,994	20,108	5,832	2,537	23,155	996
GUIDELINE	32,600	6,068	38,806	9,102	8,677	4,551	10,585	2,000

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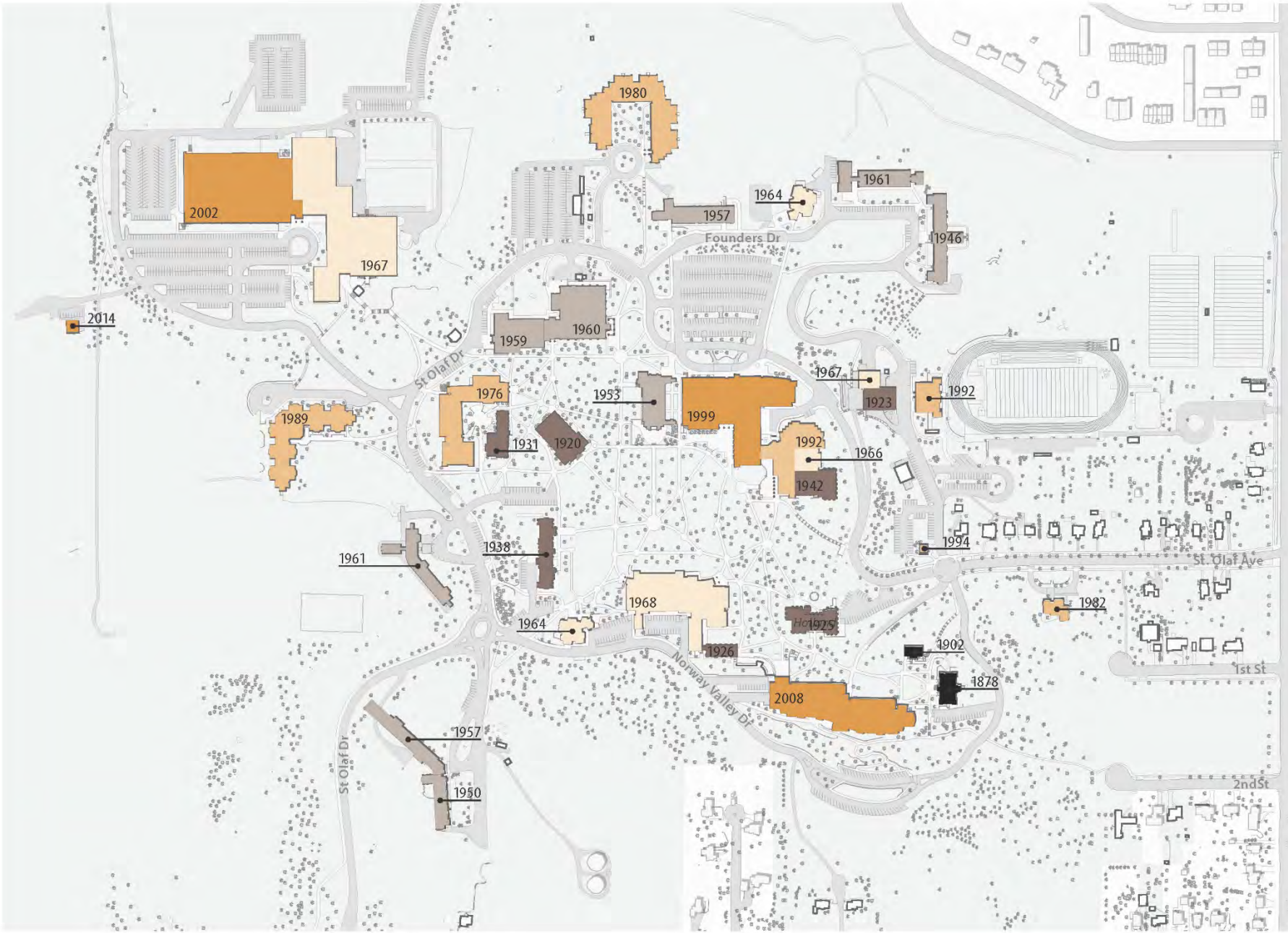

1.1 Building Chronology

- **1878-1902:** The Earliest Campus
- **1920-1942:** Boe Legacy
- **1947-1963:** After WWII
- **1964-1974:** Centennial Decade
- **1975-1995:** Consolidating Growth
- **1996-Present:** Framework Plan Implementation

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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1.2 Facilities Condition

- No Change Recommended
- Renewal Recommended in 20-Year Horizon
- Renewal Past Due
- Unrated

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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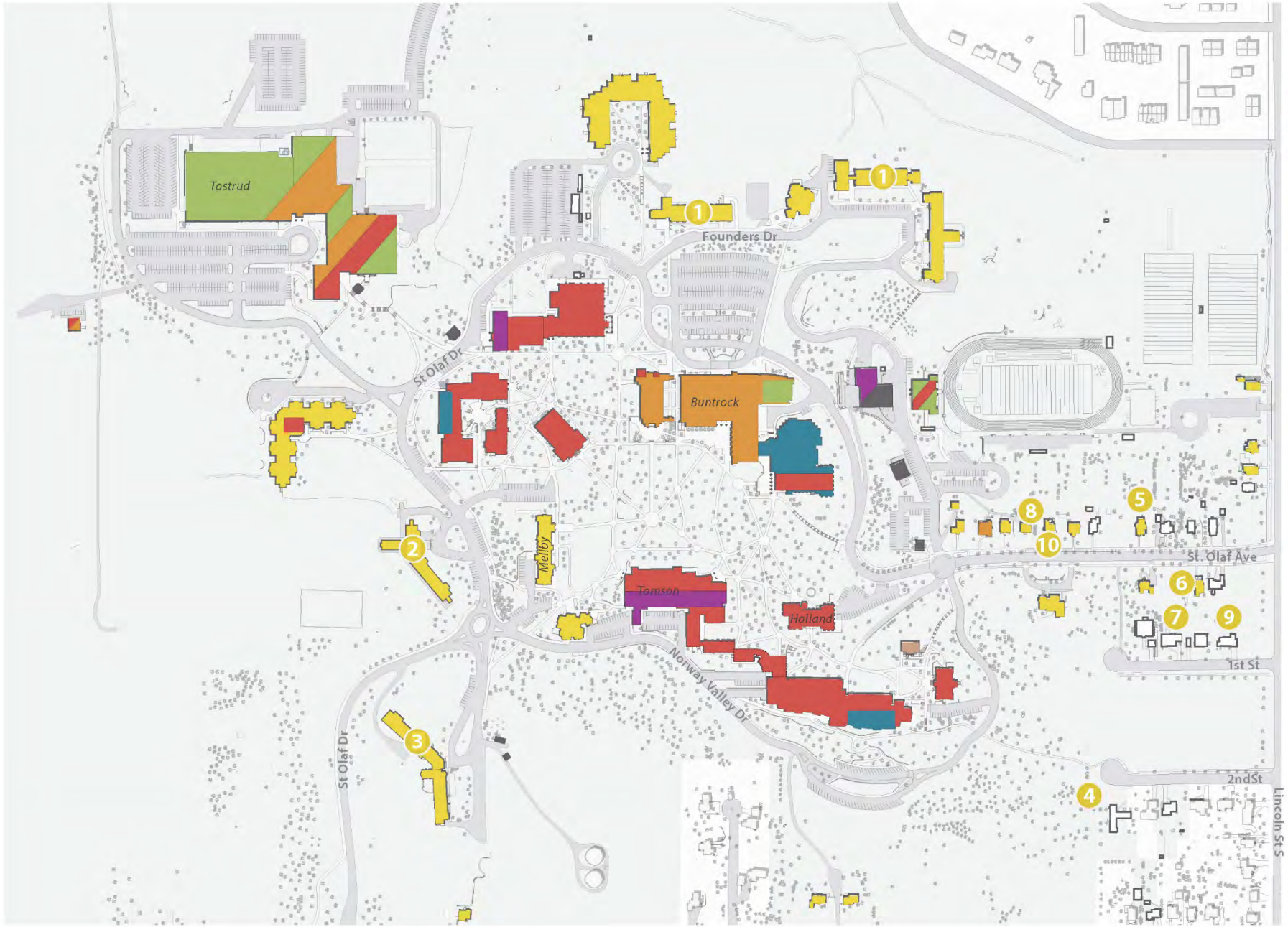

1.3 Primary Facility Use

- Academic
- Library / Study
- Administration
- Student Life
- Residential
- Athletic / Recreation
- Facilities Support
- Unoccupied

1. Residence Hall for the Great Conversation
2. Residence Hall for the American Conversation
3. Residence Hall for the Environmental Conversation

Academic Houses

4. Chinese
5. French
6. German
7. Norwegian
8. Russian
9. Spanish
10. Diversity Awareness (Japanese?)

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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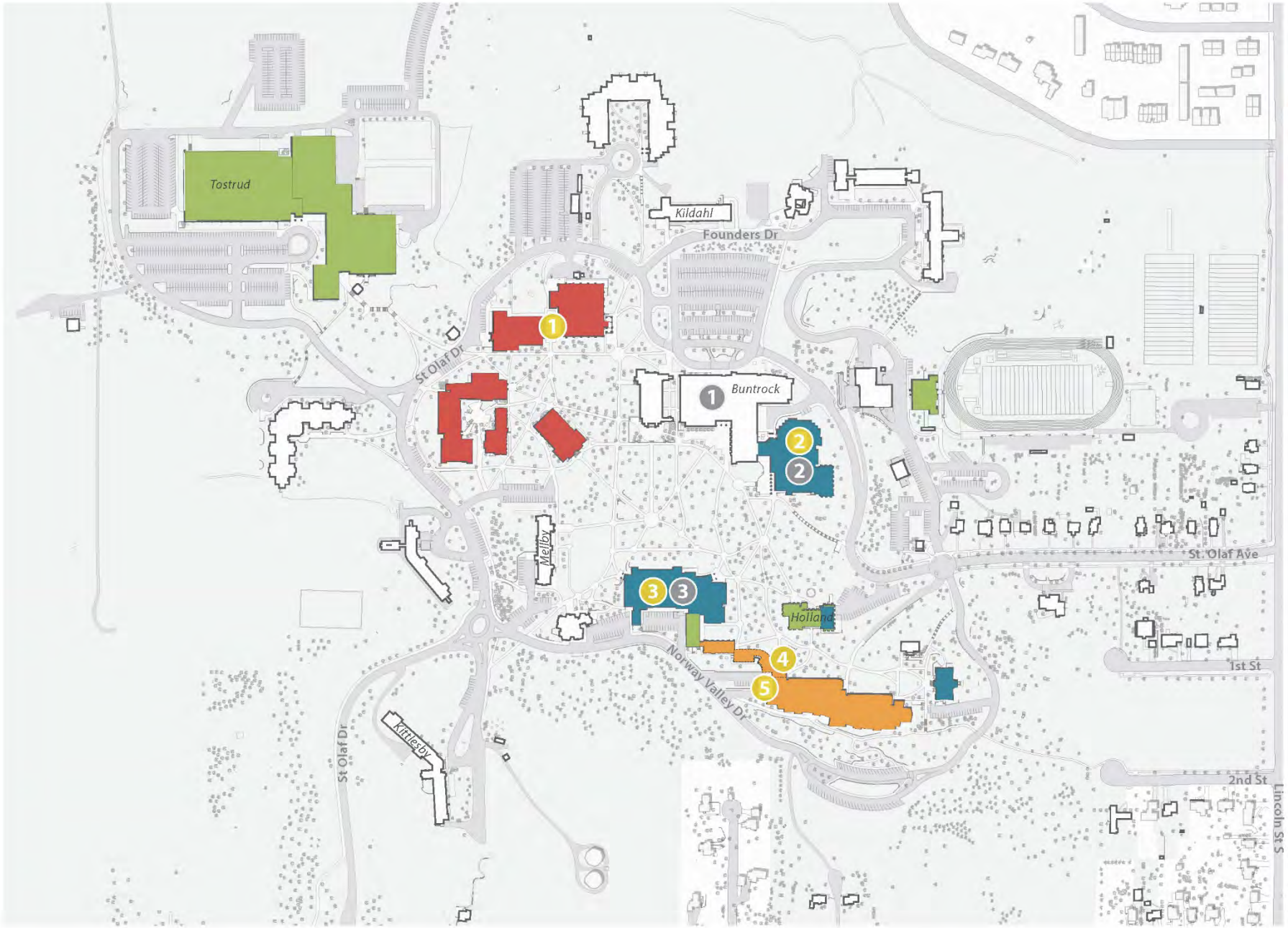

1.4 Academic Communities

- Fine Arts
- Humanities
- Social Sciences
- Natural Sciences+Math

Interdisciplinary Spaces

1. The Link
2. DISCO+Digital Humanities
3. Asian Studies
4. Center for Integrative Studies
5. GIS Laboratory

Academic Resources

1. Academic Advising Center
   Academic Support Center
2. Writing Center
   Information Technology (IT) Helpdesk
   Academic Civic Engagement
3. Center for Innovation in the Liberal Arts International and Off-Campus Studies
   Piper Center for Vocation and Career
   World Language Center
   GEAR UP!

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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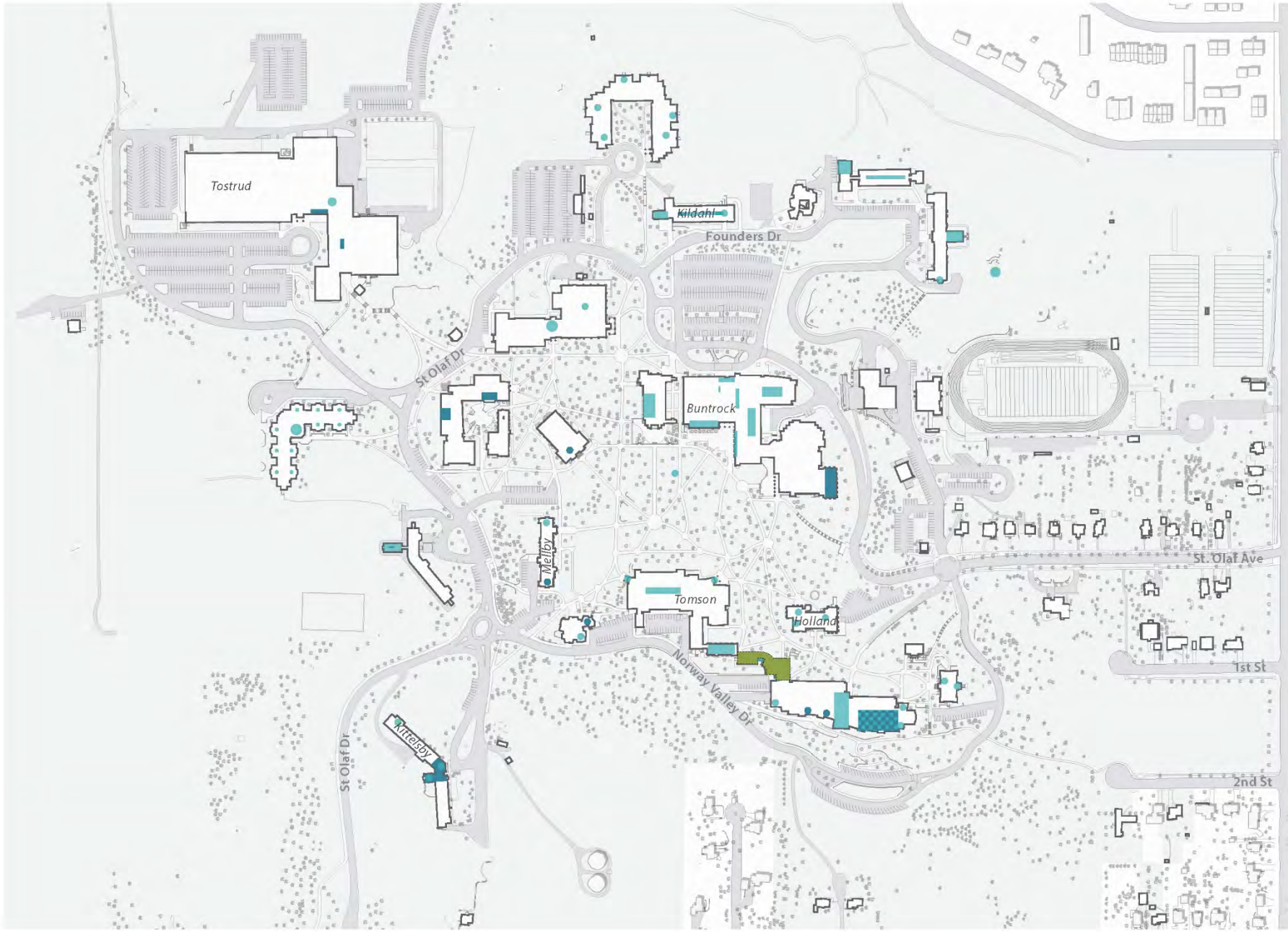

1.5 Informal Study Space

- Informal Gathering
- Study Lounge
- Additional Study Space Requested

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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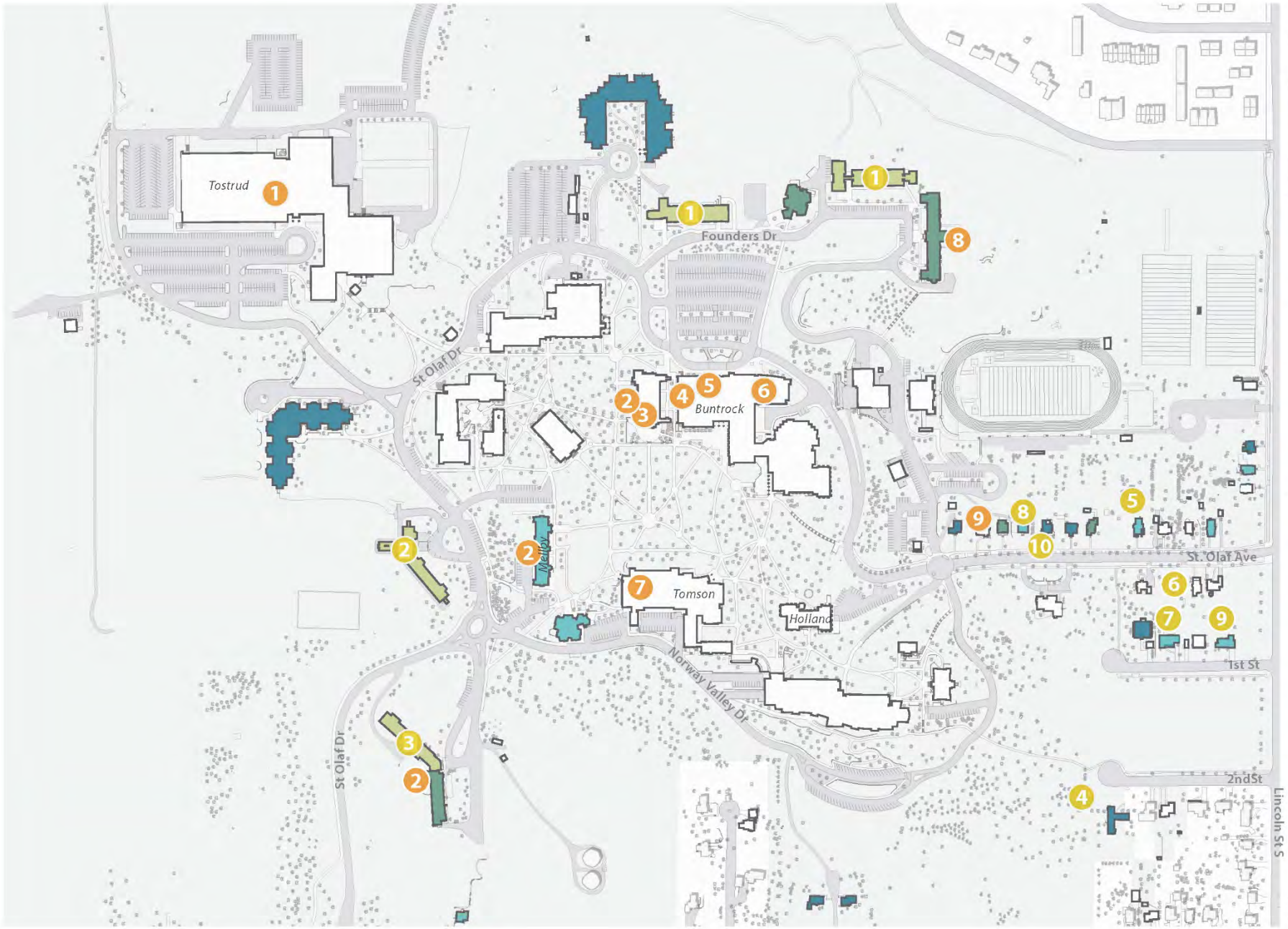

1.6 Residential Communities

Primary Class Year

- First Year
- Sophomore
- Junior
- Senior

Student Amenities

1. Recreation/Wellness Center
2. Chapel
3. College Ministry
4. Student Orgs/SORC
5. Bookstore
6. Pause
7. Health Service
8. Mosque
9. Counseling Center

Academic Communities

1. Residence Hall for the Great Conversation
2. Residence Hall for the American Conversation
3. Residence Hall for the Environmental Conversation
4. Chinese
5. French
6. German
7. Norwegian
8. Russian
9. Spanish
10. Diversity Awareness

St. Olaf Property

0′ 150′ 300′

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Scale: 1″ = 300′

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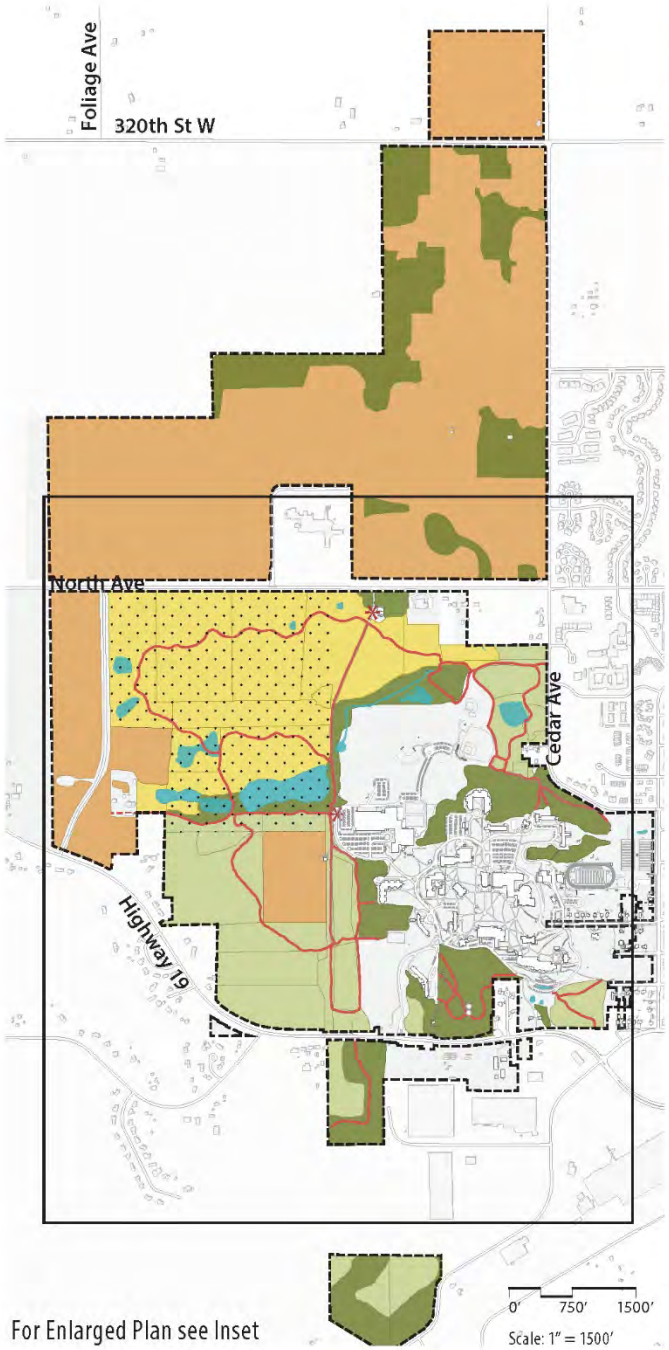
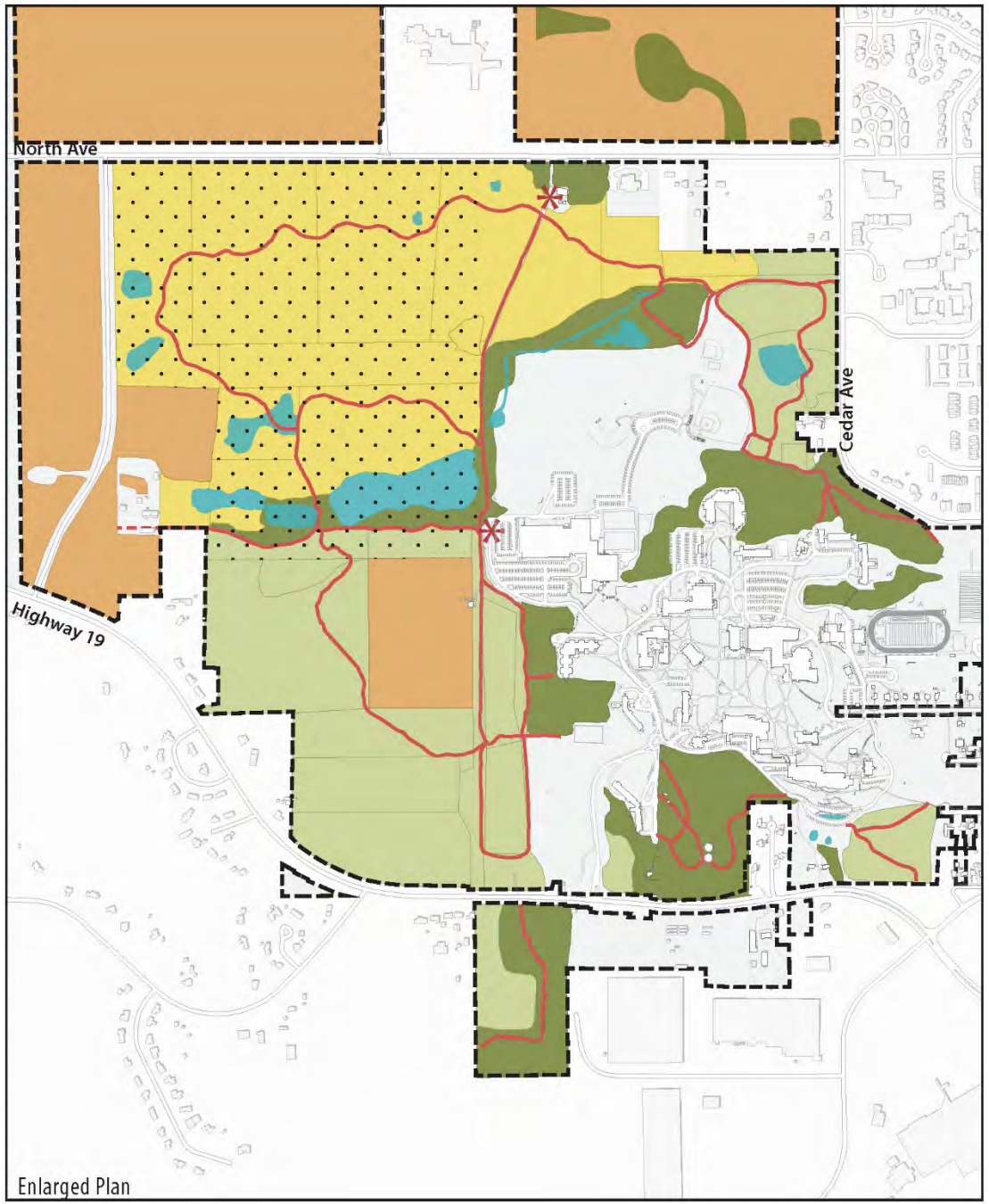
2.1 Natural Lands





- Restored Prairie
- Sustainable Agriculture
- Existing Forest
- Restored Forest
- Wetland
- Easement
- Trail Access
- Trail
- St. Olaf Property

St. Olaf Property

0' 300' 600'

Scale: 1" = 600'

N

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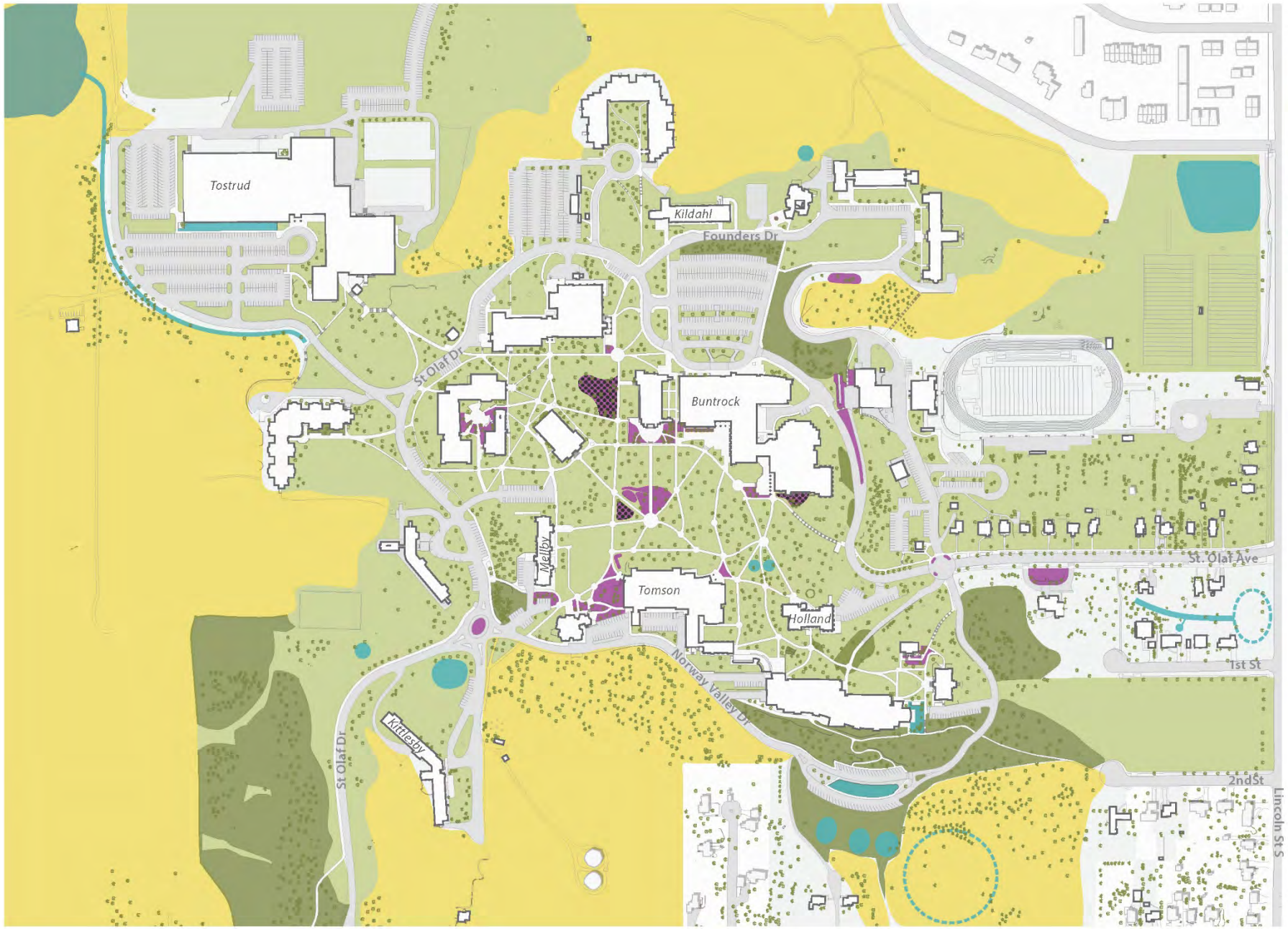

2.2 Open Space Character

- St. Olaf Natural Land
- Open Lawn
- Naturalized Planting
- Ornamental Planting
- Destination Garden
- Wetland
- Stormwater Amenity
- Tree

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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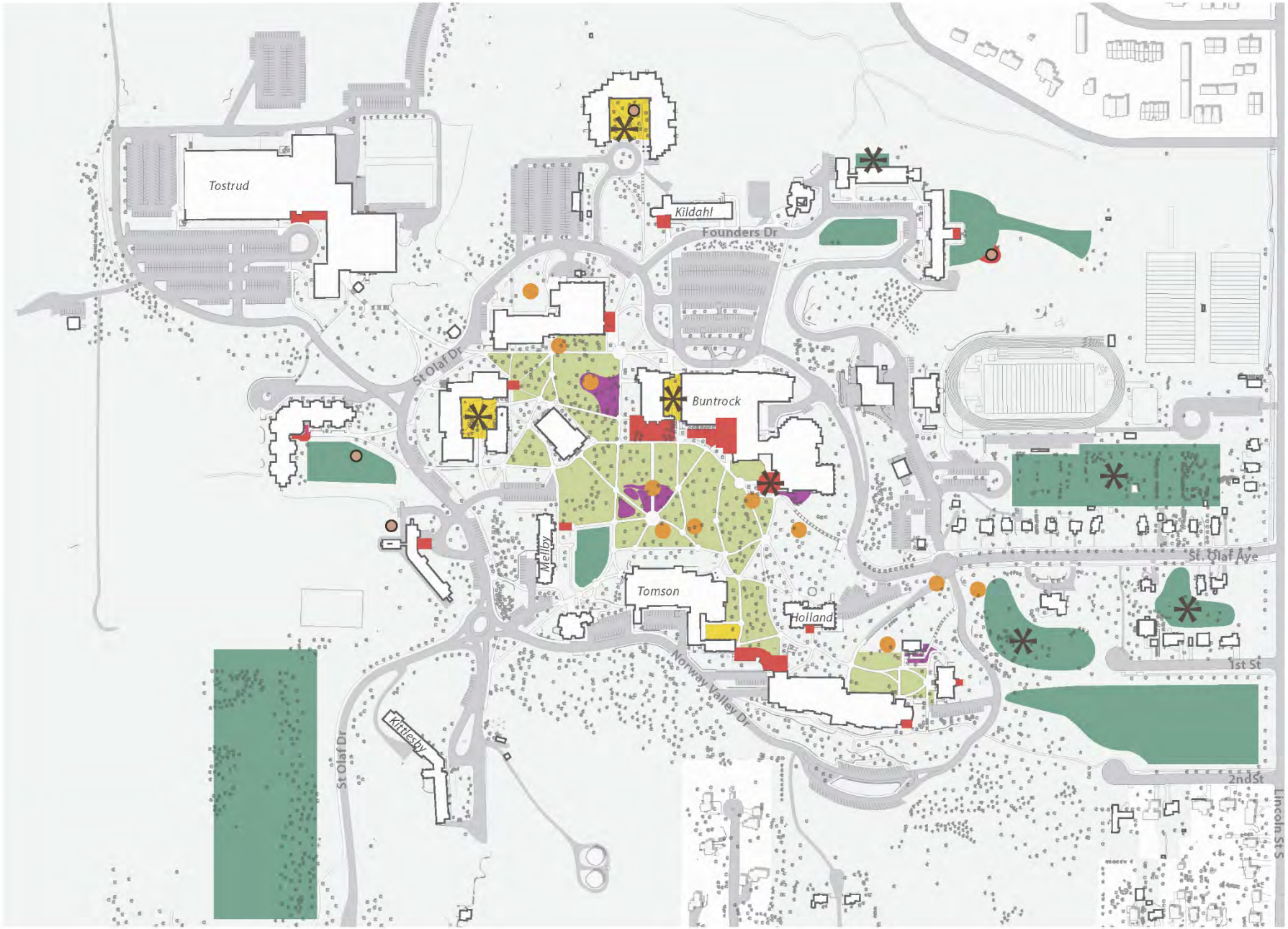

2.3 Open Space Use

- Art/Memorial/Landmark
- Garden
- Plaza/Porch
- Courtyard
- Multipurpose Common
- Recreation Area
- Stormwater Amenity
- Sidewalk
- Grill
- Opportunity Space
- Tree

St. Olaf Property

0′ 150′ 300′

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Scale: 1" = 300′

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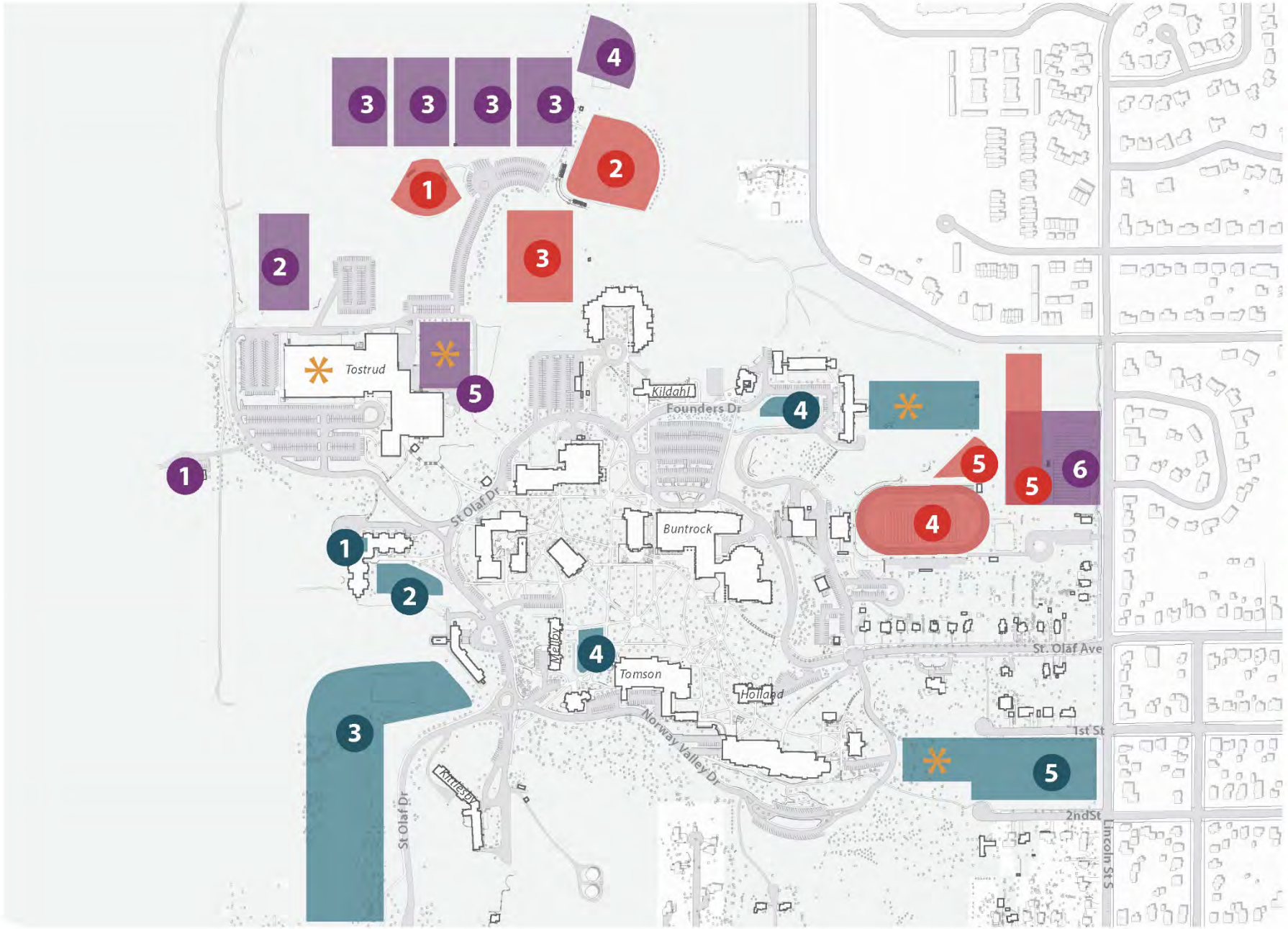

2.4 Athletics and Recreation

Athletics Field

1. Fast Pitch
2. Baseball
3. Soccer
4. Football/Track and Field
5. Track and Field

Multi-Use Athletics and Intramural Rec Field

1. Yoga/Gathering Space
2. Cross Country Race Start Point
3. Multi-Use Practice/ Summer Camp Athletic Field
4. Extra Practice Field For Baseball/Summer Camp Use
5. Tennis
6. Football/Track and Field

Recreation Area

1. Indoor Cardio Studio Space
2. Intermural and Rec Field
3. Frisbee Golf Course and Sledding Hill
4. Informal Rec Field
5. Intermural Field

Public Use

St. Olaf Property

0′ 200′ 400′

Scale: 1″ = 400′

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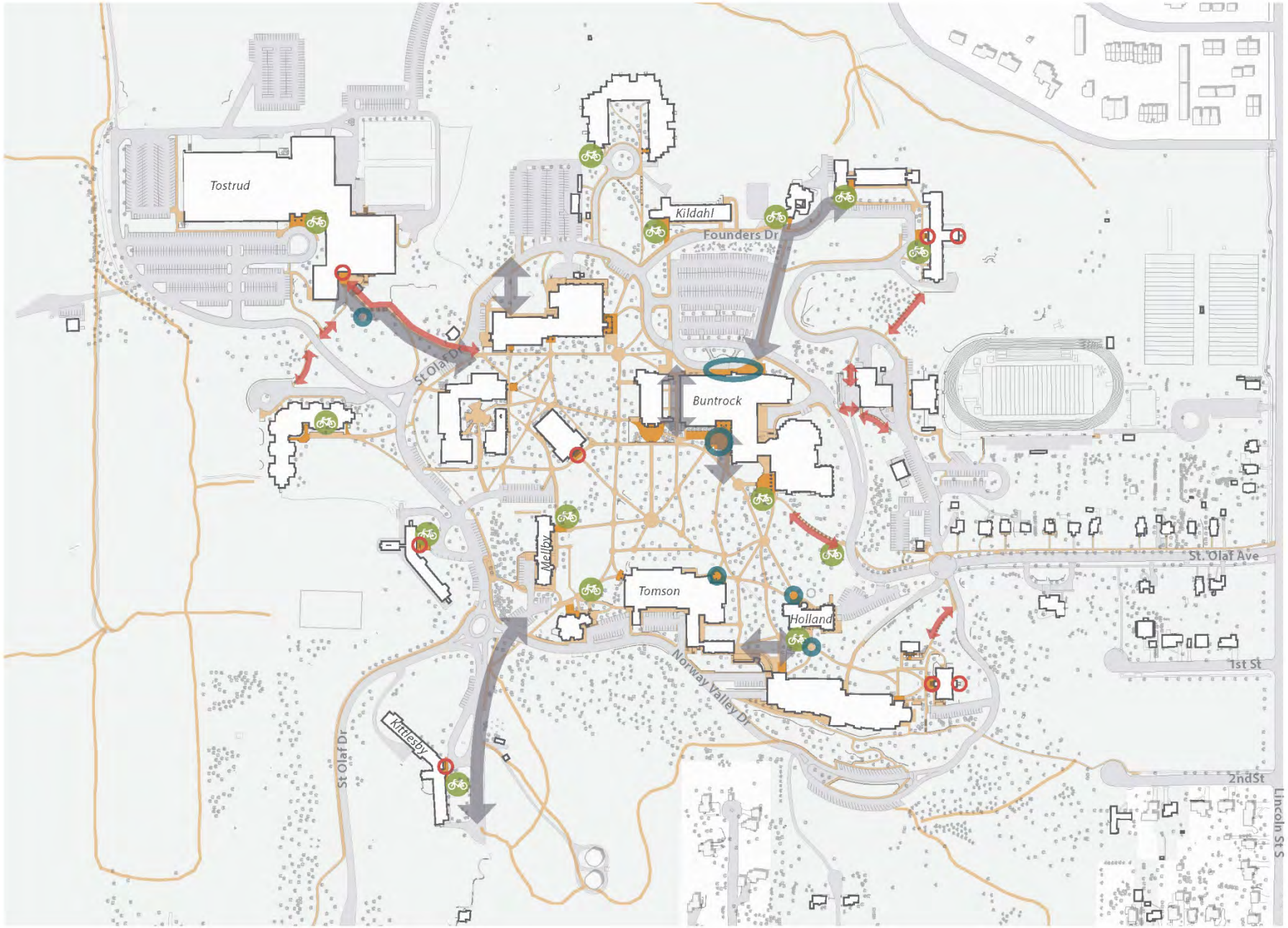

3.1 Pedestrian Circulation

- Circulation
- Primary Building Entrance
- Pedestrian Node
- Inaccessible Building Entrance
- Accessibility Issue
- Wind Tunnel
- Bike Parking

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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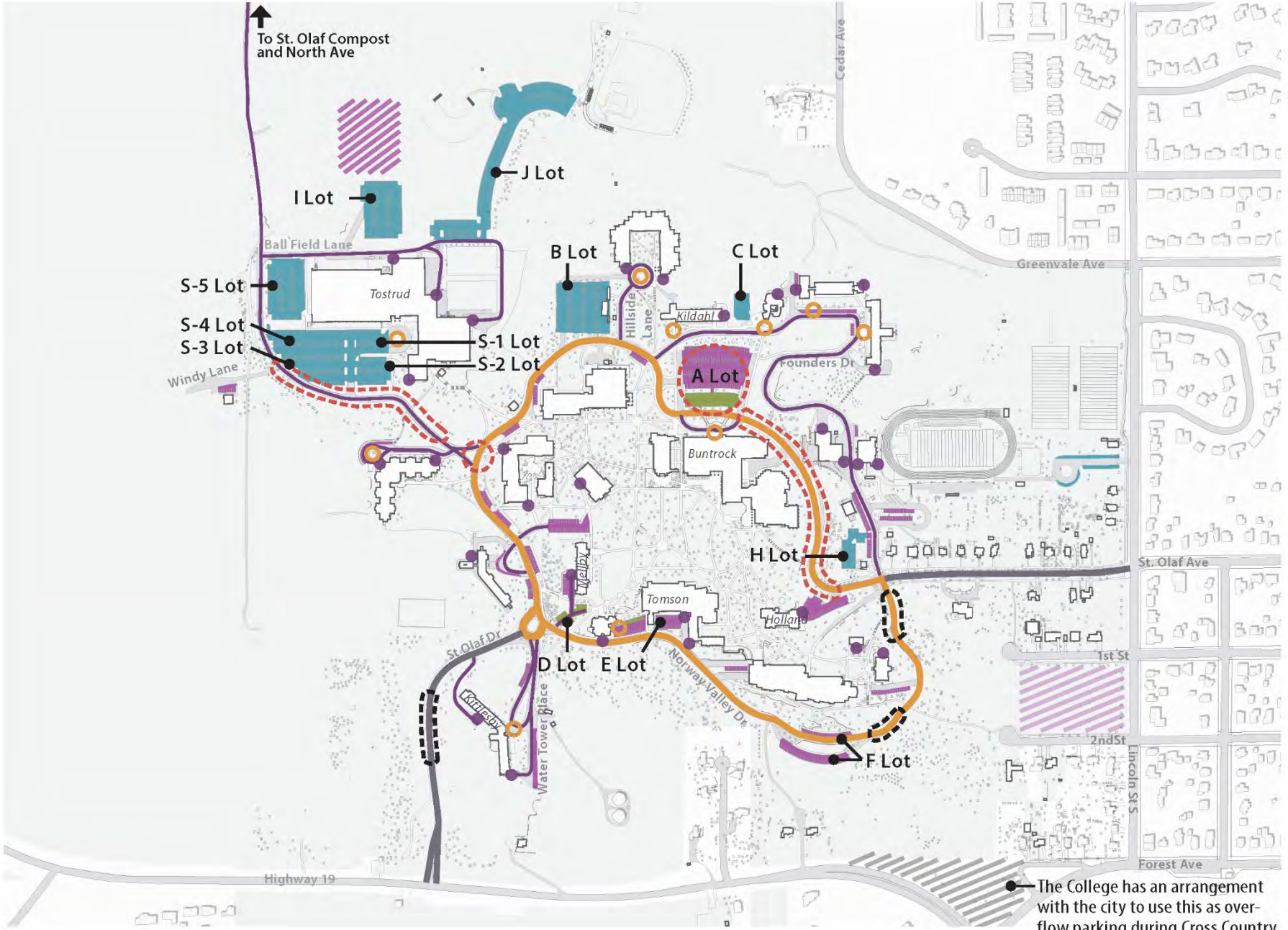

3.2 Vehicle Circulation and Parking

- Campus Entry
- Campus Loop Road
- Access Drive
- Pedestrian Conflict
- Steep Slope
- Drop Off
- Service
- Student Parking
- Faculty/Staff/Visitor Parking
- Alternative I Lot Student Parking during Christmas Fest
- Overflow Parking
- Visitor Parking

The College has an arrangement with the city to use this as overflow parking during Cross Country conferences

St. Olaf Property

0′ 200′ 400′

Scale: 1″ = 400′

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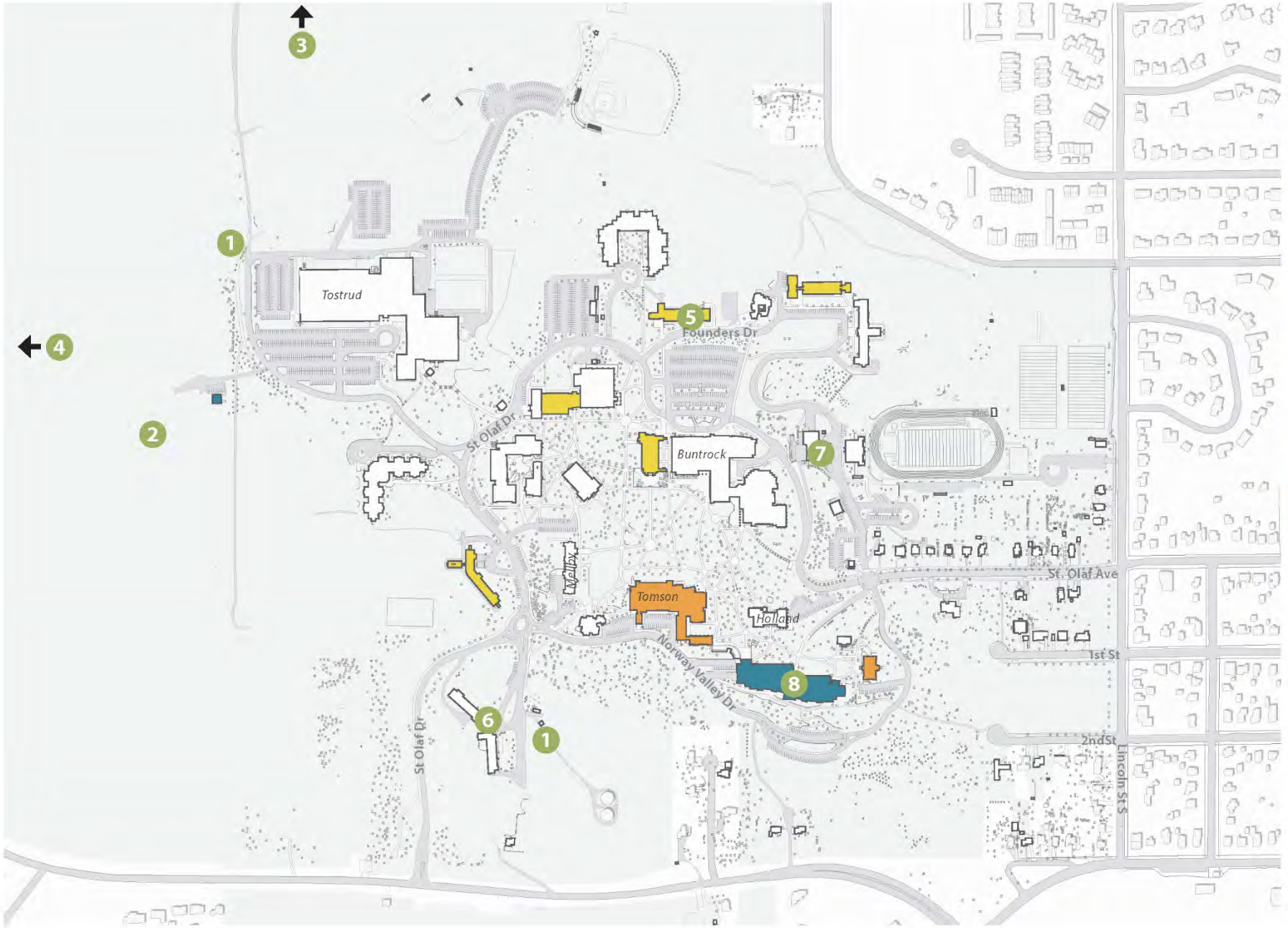

4.2 Sustainability

Sustainability Feature

1. Natural Lands
2. Wind Turbine
3. Composter
4. STOGROW
5. Solar Panels
6. Environmental Residence Hall
7. Campus Plant
8. LEED Platinum

- New Energy-Efficient Building Built in Past 10 Years
- Substantial Partial Renovation in Past 10 Years to Improve Energy Efficiency
- Full Renovation in Past 10 Years to Improve Energy Efficiency

See Stormwater Features on Open Space Diagram

St. Olaf Property

0′ 150′ 300′

Scale: 1" = 300′

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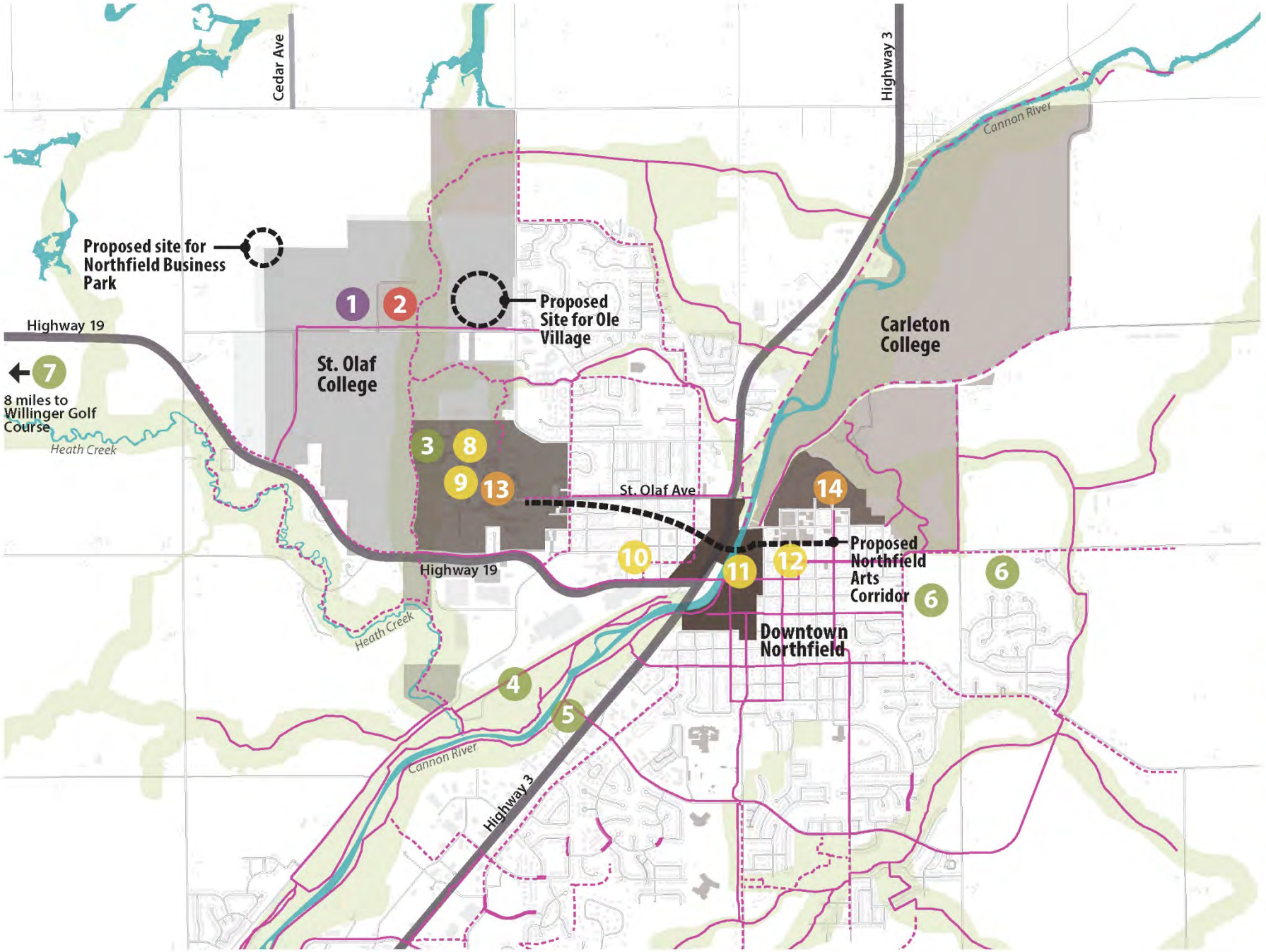

4.3 Community Connections & Resources

- College Campus Property
- College Campus Core
- Northfield Downtown Core
- Proposed Northfield Greenway Corridor
- Proposed Regional Trail
- Bike Route
- Proposed Bike Route

Community Resources

1. St. Olaf Solar Field
2. Northfield Hospital
3. Tostrud Athletic Center
4. Sechler Athletic Complex
5. Northfield Ice Arena
6. Northfield Golf Course
7. Willinger Golf Course
8. Christiansen Hall of Music
9. Dittmann Center
10. Northfield Arts Guild Theater
11. Northfield Arts Guild
12. Weitz Center for Creativity
13. Rolvaag Library
14. Gould Library

Scale: Not to Scale

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Program Review

Facilities

Open Space

Circulation

Land Use

Facilities + Energy + MEP Infrastructure

- New Construction / Facility Additions
    - o Multipurpose Performing Arts Center
    - o Athletics:
        - ☐ New Natatorium
        - ☐ New Fieldhouse
        - ☐ New/Relocated Football Stadium
        - ☐ Added Miscellaneous Support

    Spaces:

    - o New Student Housing Styles:
        - ☐ New Suite-Style Residence Hall
        - ☐ New Townhomes
    - o Wildlife Observatory
- Remove / Replace o Speech-Theater Building
    - o Highway 19 Facilities Building
    - o Non Historic Homes

- What Else?

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Facilities + Energy + MEP Infrastructure

- Major Repurposing / Renovations
    - o Steensland Hall
    - o Skoglund
    - o Christiansen
    - o Porter Hall
    - o Maker Space
    - o Library Collaborative Study
    - o Regents Hall
    - o Buntrock Commons - bag and coat storage
    - o Ytterboe Lower Level Conversion
    - o Campus Resiliency/ Sustainability hub
    - o Interdisciplinary Studies Hub
    - o Misc academic space enhancements

- MEP/Energy - additional self-generating renewables

- What Else?

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Open Space + Green/Blue Infrastructure

- North Avenue Natural Lands Trailhead
- Tostrud / Art Barn Natural Lands Trailhead
- Outdoor Amphitheatre
- Public Art
- “3-Season” Courtyards / Porches
- “4-Season” Residential Lawns
- Interior/Exterior Connectors
- Intentional Outdoor Teaching Spaces
- Outdoor Study Nodes - power, tables and seating
- Buntrock (Parking Lot) Commons
- Stormwater Infrastructure

- What Else?

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Multimodal Movement + Universal Access

- Cedar Ave Connector
- Transit Hub
- Bike Share Hub / Bike Repair Hub
- Car Share Hub
- New Campus Entries:
    - o North Ave
    - o 2nd Street
- “Gateway” Improvements:
    - o St. Olaf Avenue
    - o Highway 19
- Replacement Parking
- Expanded Loop Road / Vacated St. Olaf Drive
- Loop Road Traffic Calming
- Wayfinding
- “Missing” Walkways Along Roads
    - o Clear path/entry experience to Art Barn
    - o Library to Holland Hall

- What Else?

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Land Use + Partnerships

- Solar Garden
- Northfield Community Hospital Expansion
- Ole Village - community for active +55 Seniors
- Mixed Use Retail / New Faculty
- Innovation District
- Northfield public use/access o Rolvaag Library
    - o Performing arts facilities
    - o Sports facilities
- Northfield Arts Corridor
- James Farm programming
- Land Acquisition / Infill Parcels
    - o St. Olaf Avenue
    - o 2nd Street, 1st Street

- What Else?

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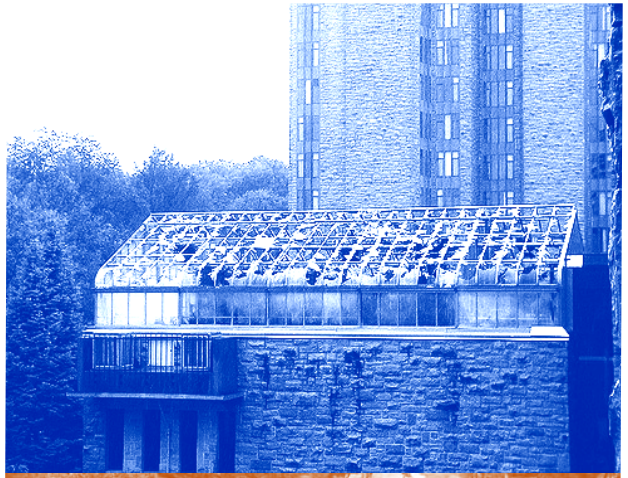
A Resilient Framework Plan



WHAT IS RESILIENCY?

MULTI-DIMENSIONAL

- Health & Wellbeing
- Economy & Society
- Infrastructure & Environment
- Leadership & Strategy

Rockefeller Foundation | City Resilience Framework

RESILIENT PLANNING

ACTIONABLE DEFINITION

Resilient Planning pursues Buildings, Communities + Campuses that are:

- Shock Resistant
- Healthy
- Adaptable + Regenerative

Through a combination of:

- Diversity
- Foresight
- Capacity for Self-organization + Learning

RESILIENCY OR SUSTAINABILITY?

SUSTAINABILITY Our Future is at Risk, [**Mitigate** + Adapt] to Improve the future

---

RESILIENCY That Future Is Arriving, **[Adapt** + Mitigate] the Worst Impacts

RESILIENCY OR SUSTAINABILITY?

SUSTAINABILITY Our Future is at Risk, [**Mitigate** + Adapt] to Improve the future

---

RESILIENCY That Future Is Arriving, [**Adapt** + Mitigate] the Worst Impacts

RESILIENCY + SUSTAINABILITY?

It’s NOT Either Or – It’s Both And_

WHAT ARE WE ADAPTING TO?

The 5 Global (Interlocking) Megatrends:*

Demographic + Social Change

Population Growth: 8 Billion by 2025

Shifting Economic Power

In 2015, World's Largest Real Economy: China

Rapid Urbanization

Weekly 1.5 Million People added to Urban Population

New York, Beijing, Shanghai, London: $8 Trillion in Future Infrastructure Needs

Climate Change + Resource Scarcity

Heavy Weather, Water Crisis, Carbon Pressure on Fossil Fuel

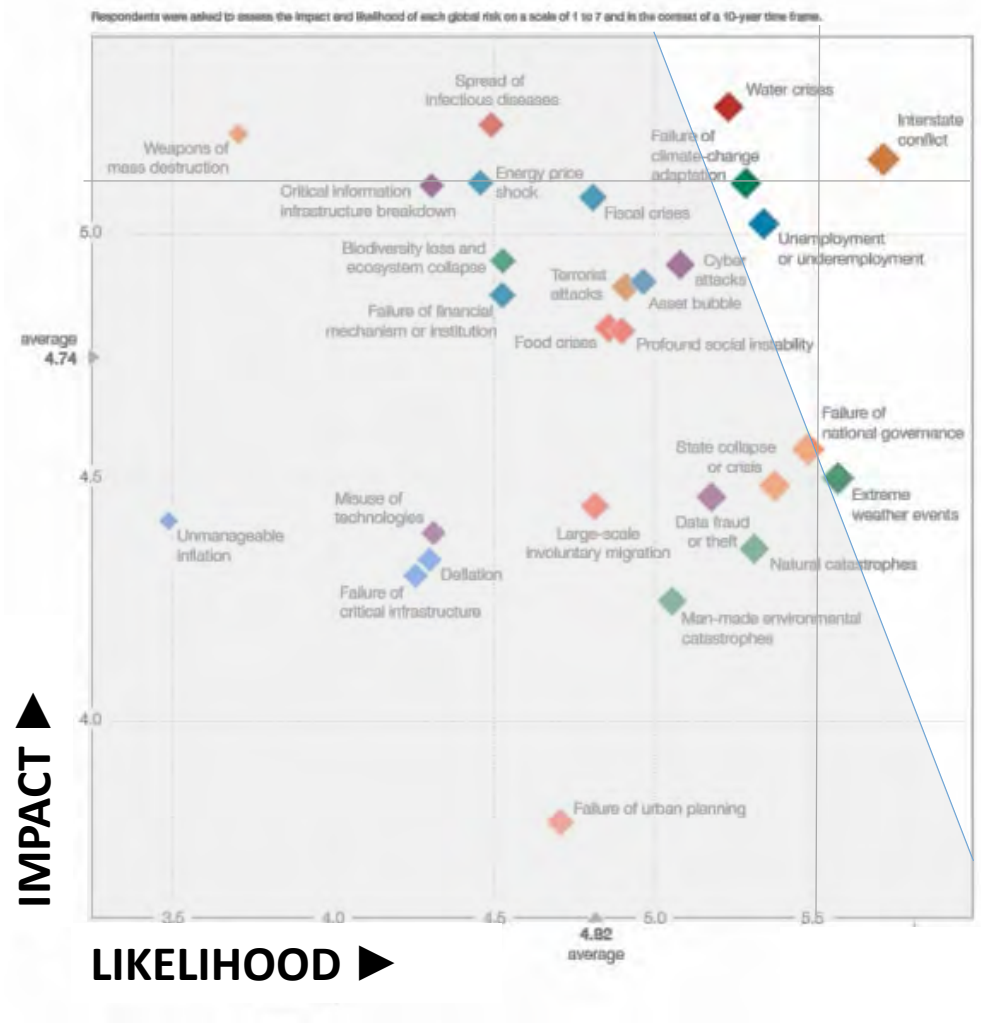
Technological Breakthroughs

"Business Strategy fit for the Digital Age"

*PWC: Price waterhouseCoopers Network Global Annual Review 2014 / Megatrends

WHAT ARE WE ADAPTING TO?

The Global Risks Landscape 2015



World Economic Forum

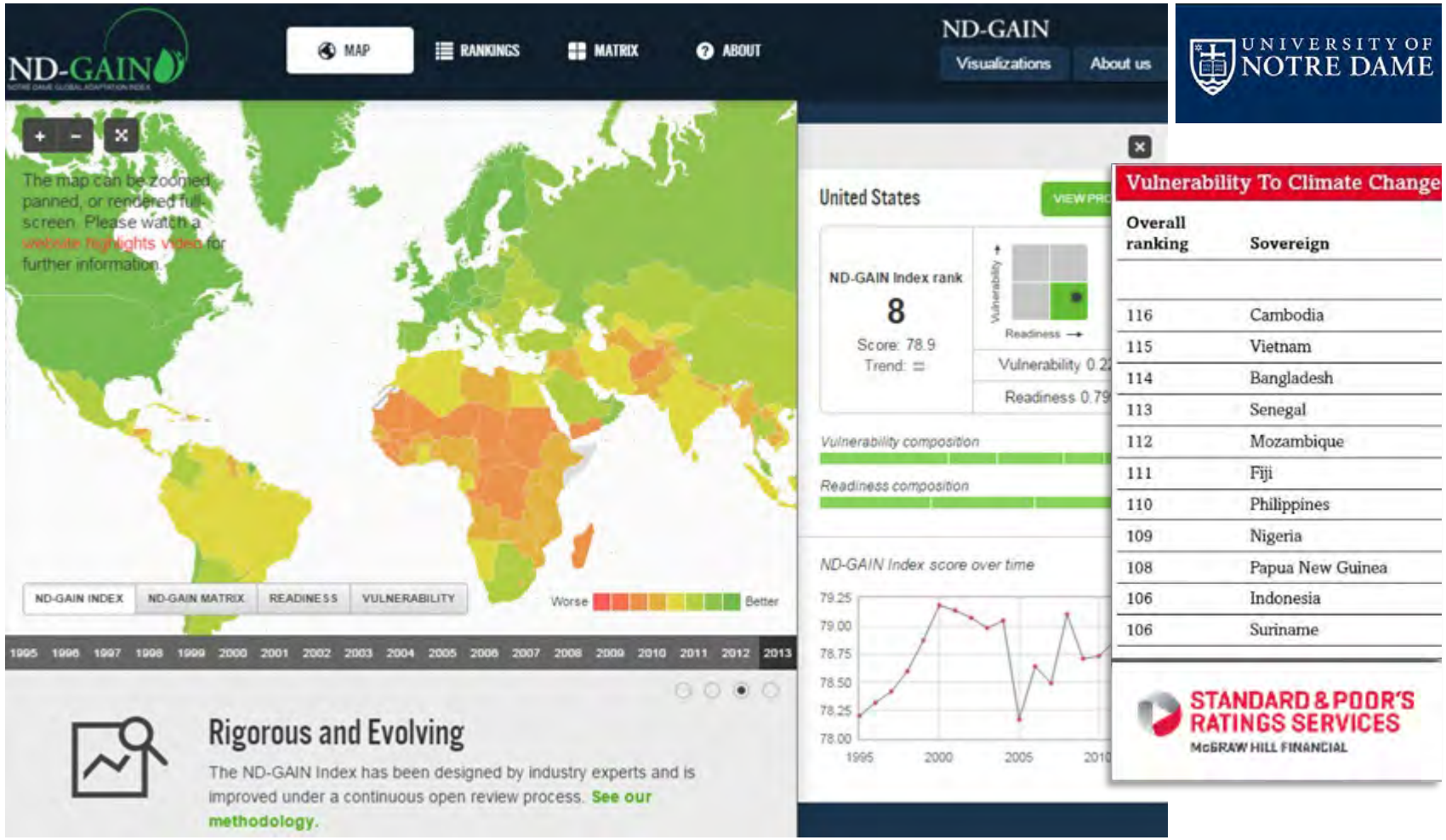
2015 Top 5 Risks for the Decade*

In Order of Impact (High Impact + High Likelihood):

1. Water Crisis
2. Interstate Conflict
3. Failure of Climate Change Adaptation
4. Unemployment + Underemployment
5. Extreme Weather Events

*896 Global Leaders – Primarily from the Business Sector

CLIMATE CHANGE



Climate Vulnerability
Credit Ratings
Credit Downgrades
Insurability
Insurance Rates

What are your Out-Of-The Box DISRUPTIVE FACTORS + OPPORTUNITIES?

Panoramic Approach

- Wholistic, Nested Scales
- Diversity, Interdisciplinary

Risk Adaptation + Mitigation: Acute Events

- Hazard Preparedness (Readiness)
- Hazard Adaptation + Mitigation

Comprehensive Adaption + Mitigation

- Community Vitality + Economics
- Productivity, Health + Diversity
- Energy, Water + Food
- Materials + Artifacts

Innovation + Technology

- Applied Creativity

RELi Resiliency Action List Categories

Resiliency Teasers

- Ash Borer, Oak Wilt and Maple Decline
- F3 Tornado / 1000-year Flood / Major Storm Event
- Power Grid Failure
- Taxed Stormwater Treatment – mandated zero-run-off
- Cell-Tower / Emergency Communication Loss
- Free (or drastically reduced tuition) for Public Universities
- Resident Student Enrollment Drop
- Summer Semester / 365-day Academic Calendar
- Mission Shift – changing programs / degrees / partnerships
- Mystery Bequest – major capital gift
- Stock Market Crash/Endowment Drop – 1987 comes again
- I-35 / Cedar Avenue “Continuous Development” Corridor
- New Energy Technologies
- Transportation Shifts - electric and self-driving cars
- Public Health / Safe Food / Water Shifts
- **What Else?**

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