

## D. CAMPUS PATTERNS

The University of Michigan campus is made up of layer upon layer of complex patterns -- of landscapes, activities and structures of varying ages, qualities and materials; of systems and infrastructures; and of relationships. An understanding of these patterns will be basic to any attempt to add to or change the physical campus.

In Phase I we have combined maps from different sources to convey information on all campuses and about a range of urban and campus variables -- land use, transportation, landscape and open space, natural systems and others. By illustrating some patterns -- land use and campus activities, for example -- layer by layer we hope to perceive new relationships, understand the rules that guide or should guide their growth, and thereby make well-based recommendations.

On the following pages are maps illustrating patterns of:

### 1. Land Use

- *Land Use: Ann Arbor* (p. 38), shows the University in the larger context of the city and adjacent areas. Together, the campus and Huron River form a cruciform dividing the City into quadrants.
- *Land Use: Campus and Surrounding Areas* (p. 40), illustrates on one map University and off-campus activities.
- Land uses are shown disaggregated on pages 41 to 48:
- *Land Use: Sciences* (p. 41)
- *Land Use: Housing* (p. 42)
- *Land Use: Religious Institutions* (p. 43)
- *Land Use: UM Administration* (p. 44)
- *University Buildings: Classrooms and Laboratory Space* (p. 45) illustrates the density of classrooms and classroom and research laboratories. By this measure, parts of North Campus appear as dense as Central Campus.
- *Land Use: Arts* (p. 46)
- *Land Use: Recreation* (p. 47)
- *Land Use Patterns Disaggregated* (p. 48) includes individual diagrams for Open Space, Libraries, Parking and Industry.

### 2. Open Space

- *Components of Open Space* (p. 49)
- *Open Space System: Activities and Access* (p. 50)
- *Landscape Types: Aesthetic and Spatial Quality* (p. 51) categorizes the type and character of campus open space.
- *Open Space Quality* diagrams (pp. 52-53) characterize campus open space.

### 3. Transportation

- *Transportation: Ann Arbor* (p. 54) shows the University within the context of regional transportation systems.
- *Transportation: Campus and Surrounding Areas* (p. 55) overlays on one map major roads, parking lots and transit hubs.
- *University and Ann Arbor Transit Routes* (p. 56)
- *Bicycle Routes* (p. 57) shows Ann Arbor Bicycle routes overlaid on City and University recreational uses.
- *Freshmen Path Diagram: Residence to First Class* (p. 58).
- *Senior Path Diagram: Residence to First Class* (p. 59).
- *Scale Comparisons: Walking Distances* (pp. 60-61) illustrates walks between UM campuses and equivalent distances in well-known cities. What makes some walks more imageable and manageable than others? Walking from landmark to landmark? Along a line or easily defined path? Activities along the way?

### 4. Interdisciplinary Linkages

- *Interdisciplinary Linkages as Reported by the Deans* (p. 63) was prepared in 1994 by Patricia S. Whitesell, Office of the Vice President for Research.

We have been working on other maps -- learning channels, public safety, regional land uses, and other campus scale comparisons, for example. These are in draft form for discussion with the Advisory Committee, and will be included in future reports. As we learn more about other patterns, systems and relationships -- archaeological sites, for example -- we will map those too.



- UNIVERSITY OF MICHIGAN**
- UM Health System
- College of Pharmacy, Division of Kinesiology, School of Dentistry, School of Nursing, School of Public Health, & the Medical School
- UM Libraries
- College of Architecture & Urban Planning, Law School, College of Literature, Science & the Arts, Officer Education Program, Rackham Graduate School, School of Art & Design, School of Business Administration, School of Education, School of Information & Library Studies, School of Music, School of Public Policy Studies, & the School of Social Work
- LS&A Sciences, College of Engineering, & the School of Natural Resources & Environment
- UM Institutes
- UM Athletics
- UM Recreation
- UM Student Housing
- UM Student Services
- UM Museums
- UM Administration
- UM Performing Arts
- UM Facilities

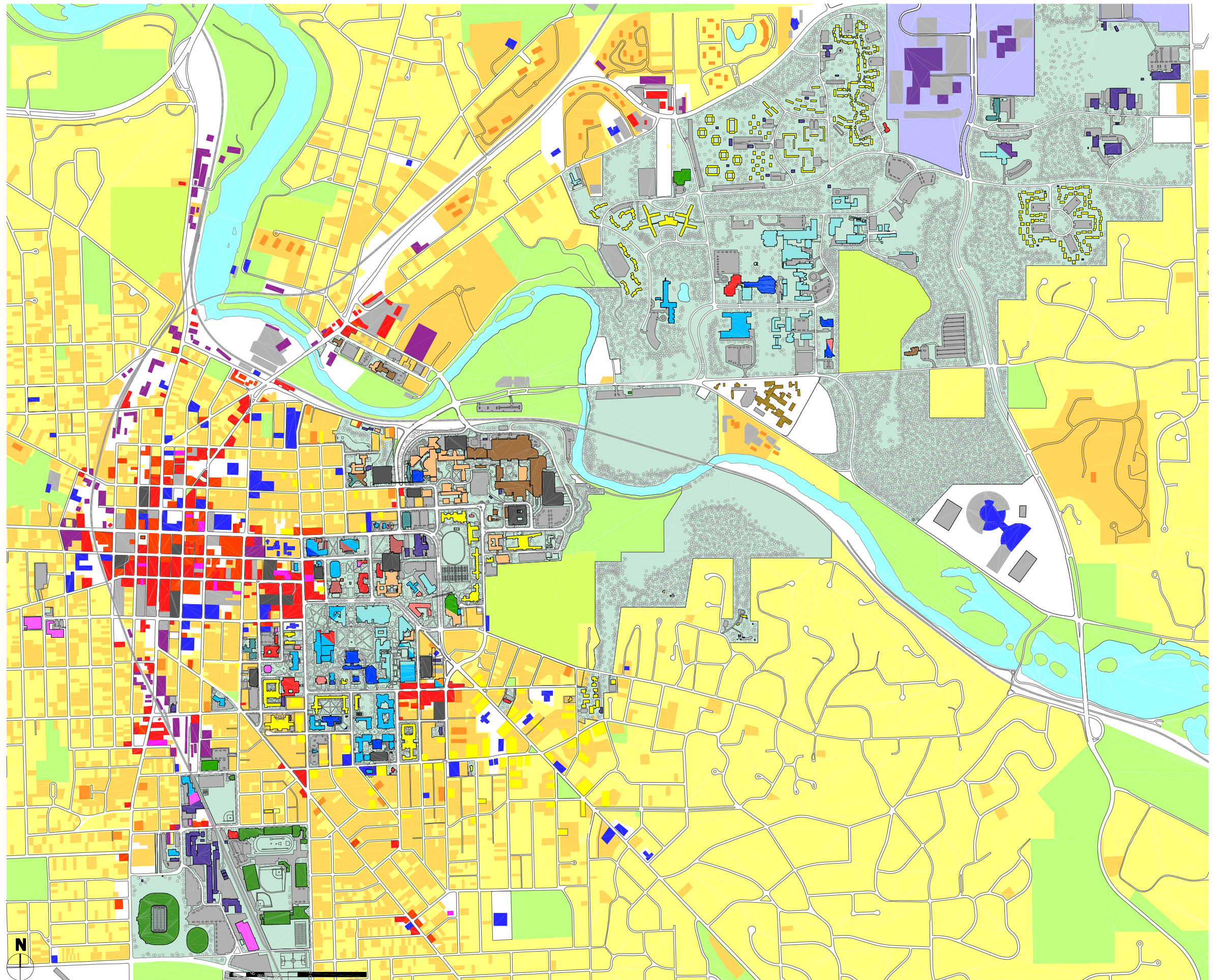
**OTHER LAND USES**

- Medical Hospitals & Clinics
- Industrial
- Corporate Complexes, Research & Development Offices
- Corporate Properties
- Institutional
- Other Colleges and Universities
- Public Open Space
- Cemeteries
- Housing
- Multi-Unit Housing
- Offices
- Retail
- Entertainment
- Parking Lots
- Parking Garages

**LAND USE: CAMPUS & SURROUNDING AREAS**

University of Michigan Campus Plan, Phase I

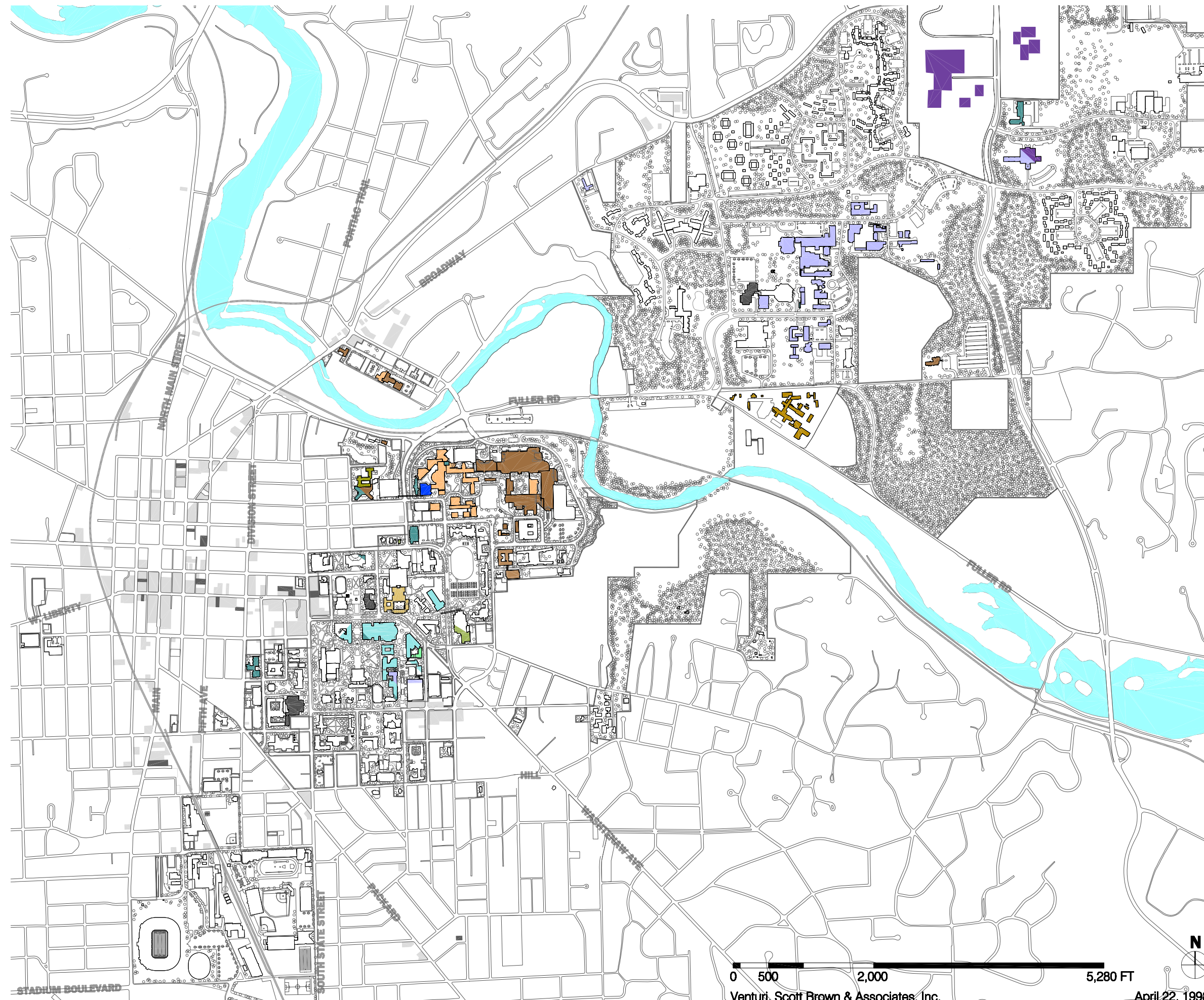
Base Map: UM Facilities Planning & Design  
 Information Source: UM Office of Space Analysis,  
 Hedberg Maps, Inc.



April 22, 1998

Venturi, Scott Brown & Associates, Inc.





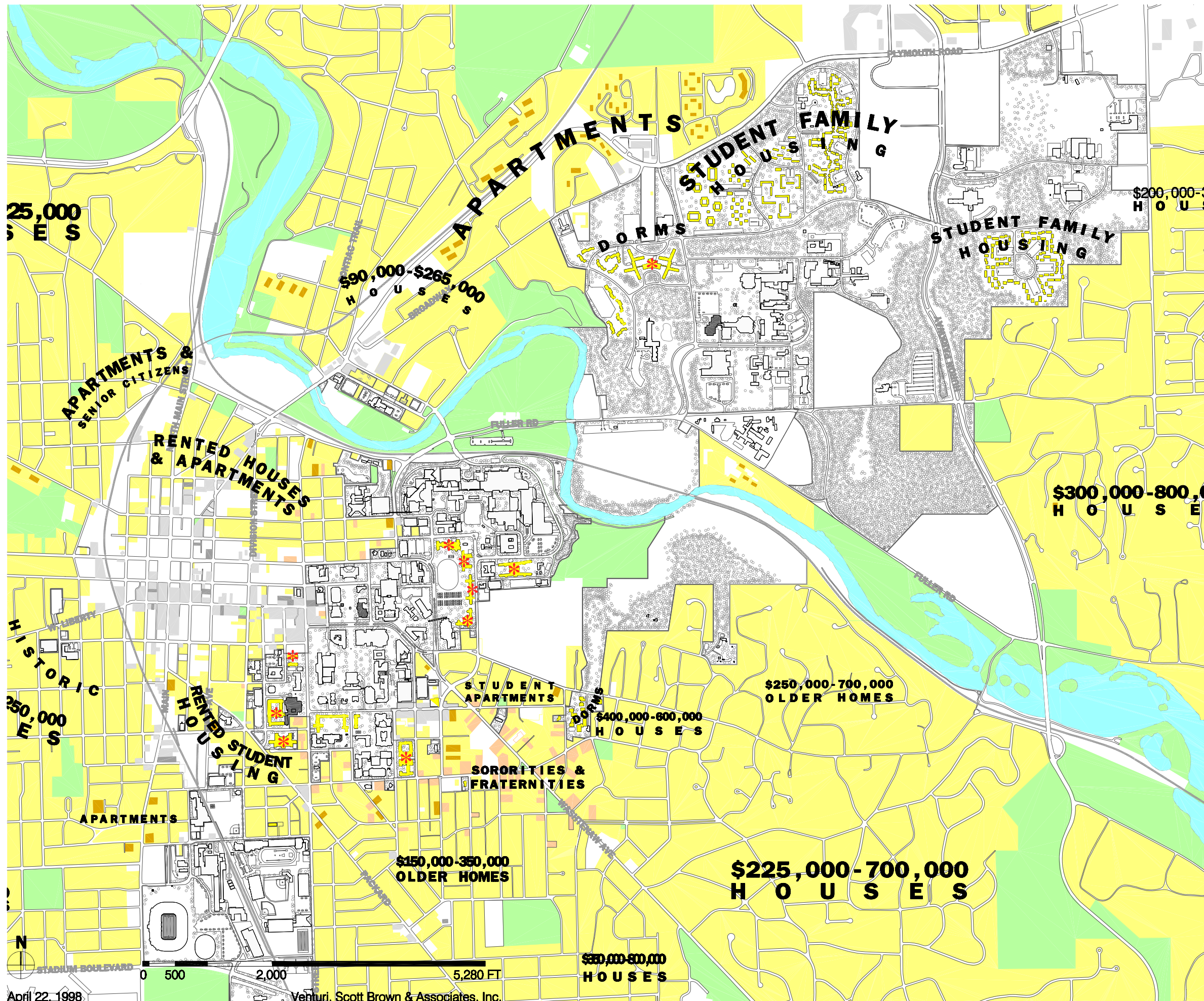
- KEY**
- UM Health System
  - Other Hospitals
  - UM School of Public Health
  - UM Medical School
  - UM School of Dentistry
  - UM School of Nursing
  - UM Division of Kinesiology
  - UM College of Pharmacy
  - UM Institutes
  - UM LS&A Sciences & SNRE
  - Taubman Medical Library
  - UM College of Engineering
  - Corporate Research and Development
  - Ann Arbor Retail
  - Ann Arbor Entertainment
  - UM Nodes: Michigan Union, Michigan League, & Pierpont Commons
  - UM Property Limit

**LAND USE: SCIENCES**  
 University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
 Information Source: UM Office of Space Analysis

0 500 2,000 5,280 FT  
 Venturi, Scott Brown & Associates, Inc. April 22, 1998





**KEY**

- \* UM Dining in Residential Halls
- UM Student Housing
- UM Fraternities, Sororities, & Co-ops
- Single Family Housing
- Multi Family Housing
- Ann Arbor Parks & Golf Courses
- Ann Arbor Retail
- Ann Arbor Entertainment
- UM Nodes: Michigan Union, Michigan League, & Pierpont Commons
- UM Property

**LAND USE: HOUSING**

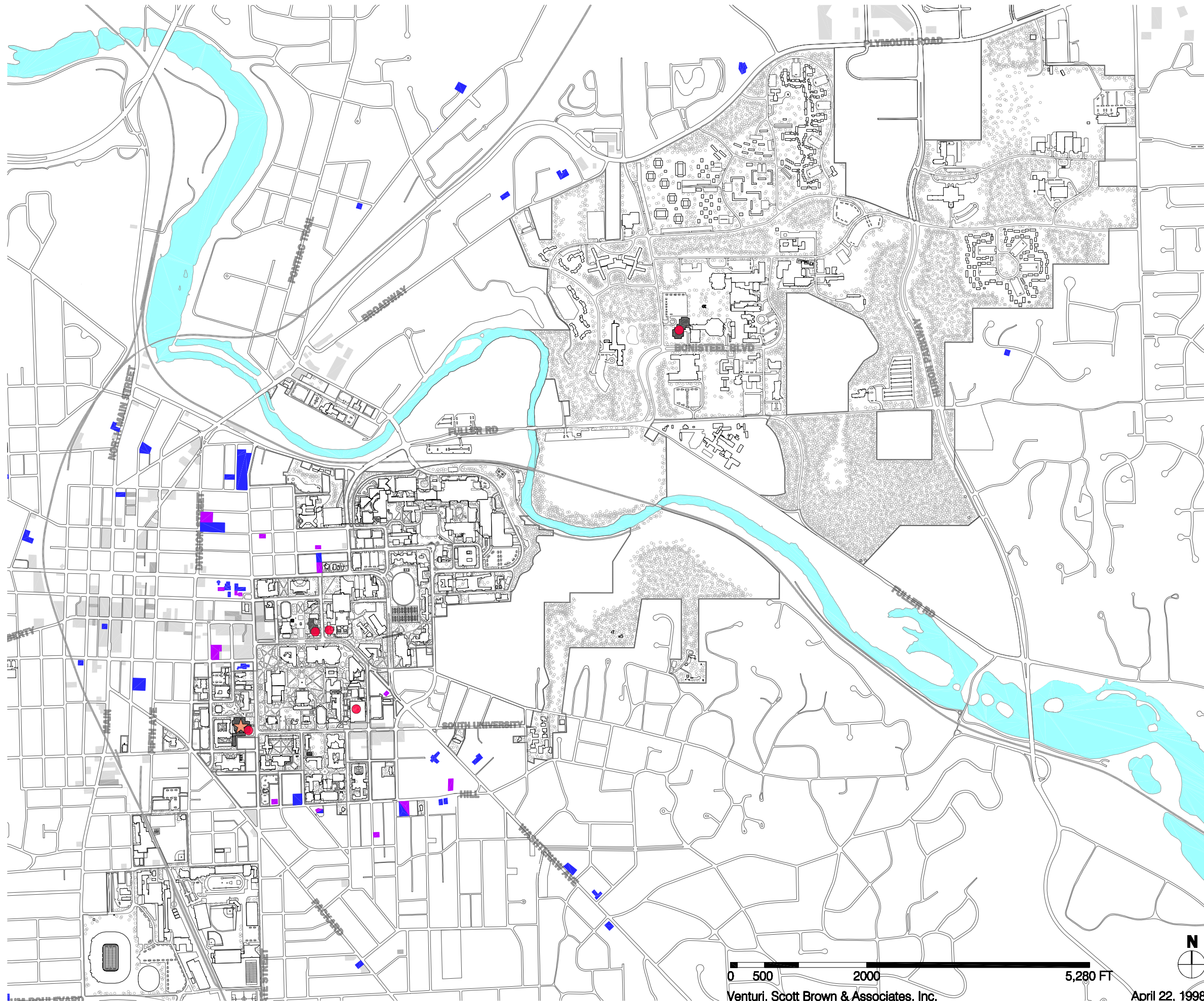
University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
 Information Source: Discover the Ann Arbor & Ypsilanti Area Magazine, UM Office of Space Analysis, Hedberg Maps, Inc.

April 22, 1998

Venturi, Scott Brown & Associates, Inc.





- KEY**
- Ann Arbor Religious Institutions
  - University Affiliated Institutions
  - UM Spaces Also Used by Religious Groups
  - ★ University Liaison for Ethics & Religion
  - Ann Arbor Retail
  - Ann Arbor Entertainment
  - UM Nodes: Michigan Union, Michigan League & Pierpont Commons
  - UM Property Limit

**LAND USE:  
RELIGIOUS INSTITUTIONS**  
University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
Information Sources: Ann Arbor Observer City Guide  
<http://www.umich.edu/UM-Clubs.html>

0 500 2000 5,280 FT



Venturi, Scott Brown & Associates, Inc.

April 22, 1998



**SQUARE FOOTAGE OF OFFICE SPACE**

- Over 50,000 sq. ft.
- 40,000 - 49,999 sq. ft.
- 30,000 - 39,999 sq. ft.
- 20,000 - 29,999 sq. ft.
- 10,000 - 19,999 sq. ft.
- 1,000 - 9,999 sq. ft.
- Under 1,000 sq. ft.

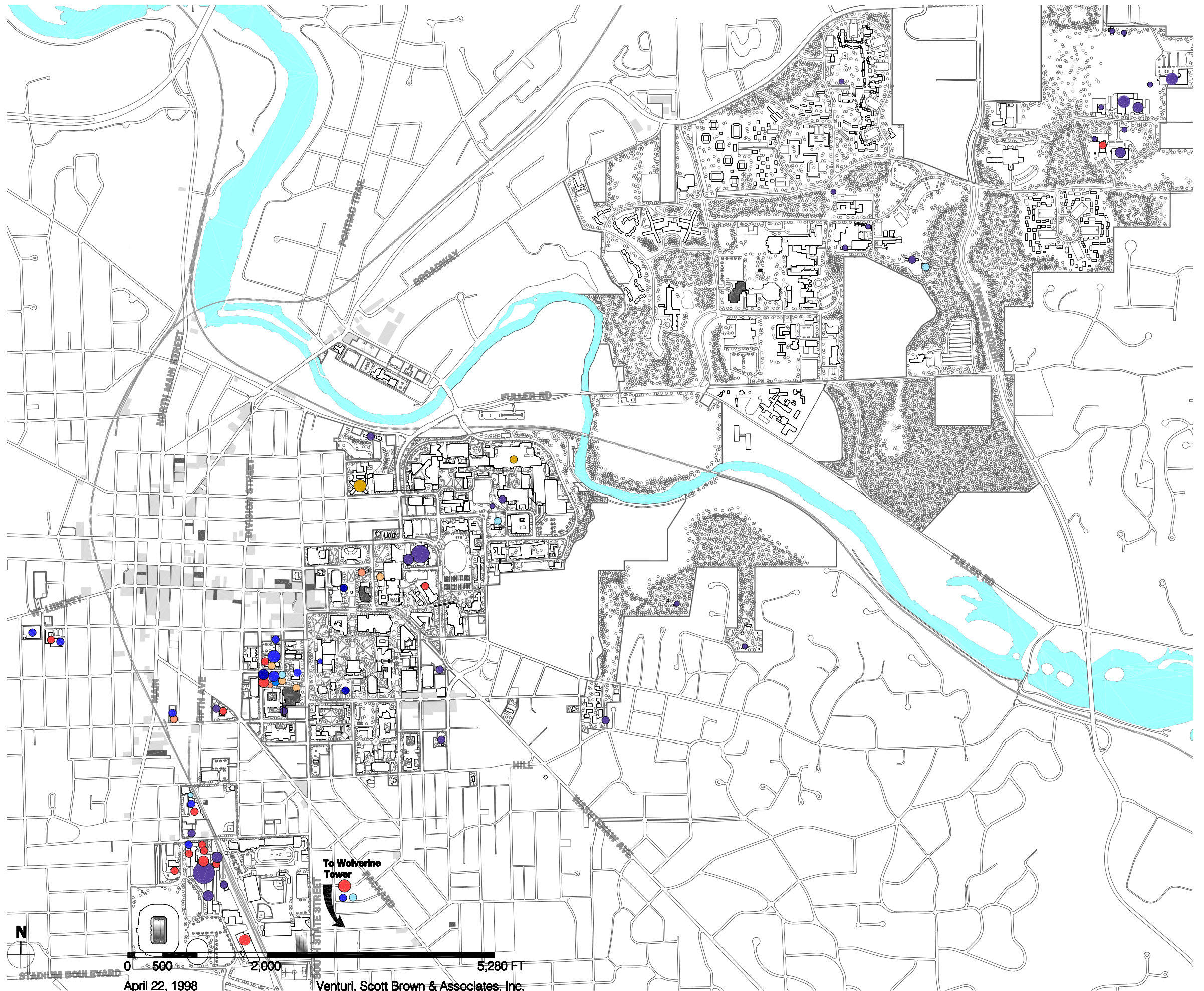
**KEY**

- President's Offices
- University Relations Offices
- Academic Affairs Offices
- Research Offices
- Student Affairs Offices
- Medical Affairs Offices
- Development Offices
- Business and Finance Offices
- UM Facilities
- Ann Arbor Retail
- Ann Arbor Entertainment
- UM Nodes: Michigan Union, Michigan League & Pierpont Commons
- UM Property Limit

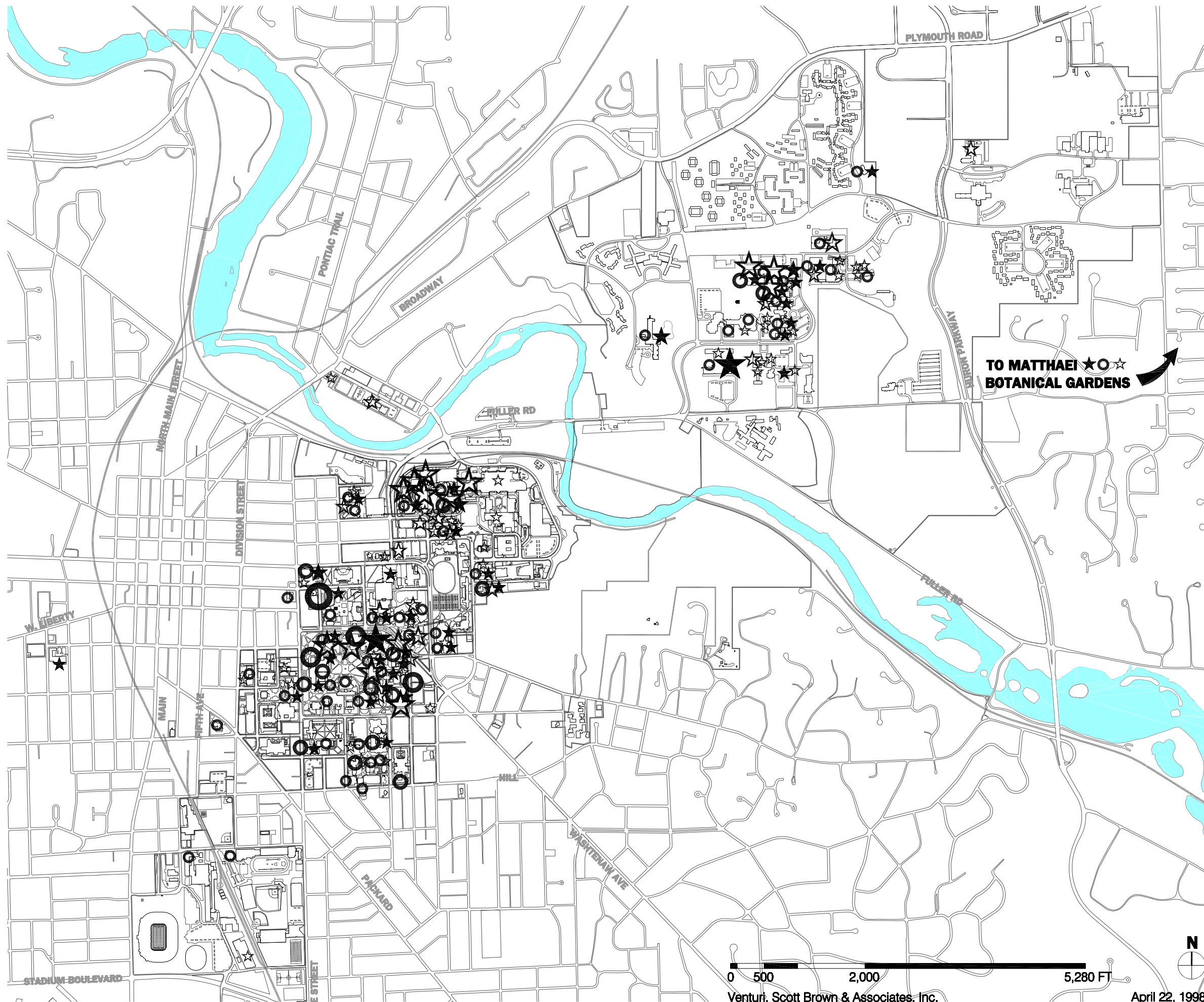
**LAND USE:  
UM ADMINISTRATION**

University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
Information Source: UM Office of Space Analysis







**KEY**

CLASSROOM LABORATORY/ STUDIO	RESEARCH LAB	
○	★	☆ OVER 30,000 SF
○	★	☆ 20,000-30,000 SF
○	★	☆ 10,000-20,000 SF
○	★	☆ 0-10,000 SF
		□ UM Property Limit

**UNIVERSITY BUILDINGS:  
CLASSROOM & LABORATORY  
SPACE**  
University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
Information Source: UM Office of Space Analysis



Venturi, Scott Brown & Associates, Inc.

April 22, 1998



**PERFORMANCE SPACES:**

- ★ 10,000 + capacity
- ★ 1,000 - 9999 capacity
- ★ 500 - 999 capacity
- ★ 200 - 499 capacity
- ★ 100 - 199 capacity

**ENTERTAINMENT SPACES:**

- ◇ 500 - 1000 capacity
- ◇ 200 - 499 capacity
- ◇ 100 - 199 capacity

**MUSEUM SPACES:**

- 100,000+ annual visitors
- 50,000 - 99,999 annual visitors
- 10,000 - 49,999 annual visitors
- 1,000 - 9,999 annual visitors
- 0 - 999 annual visitors

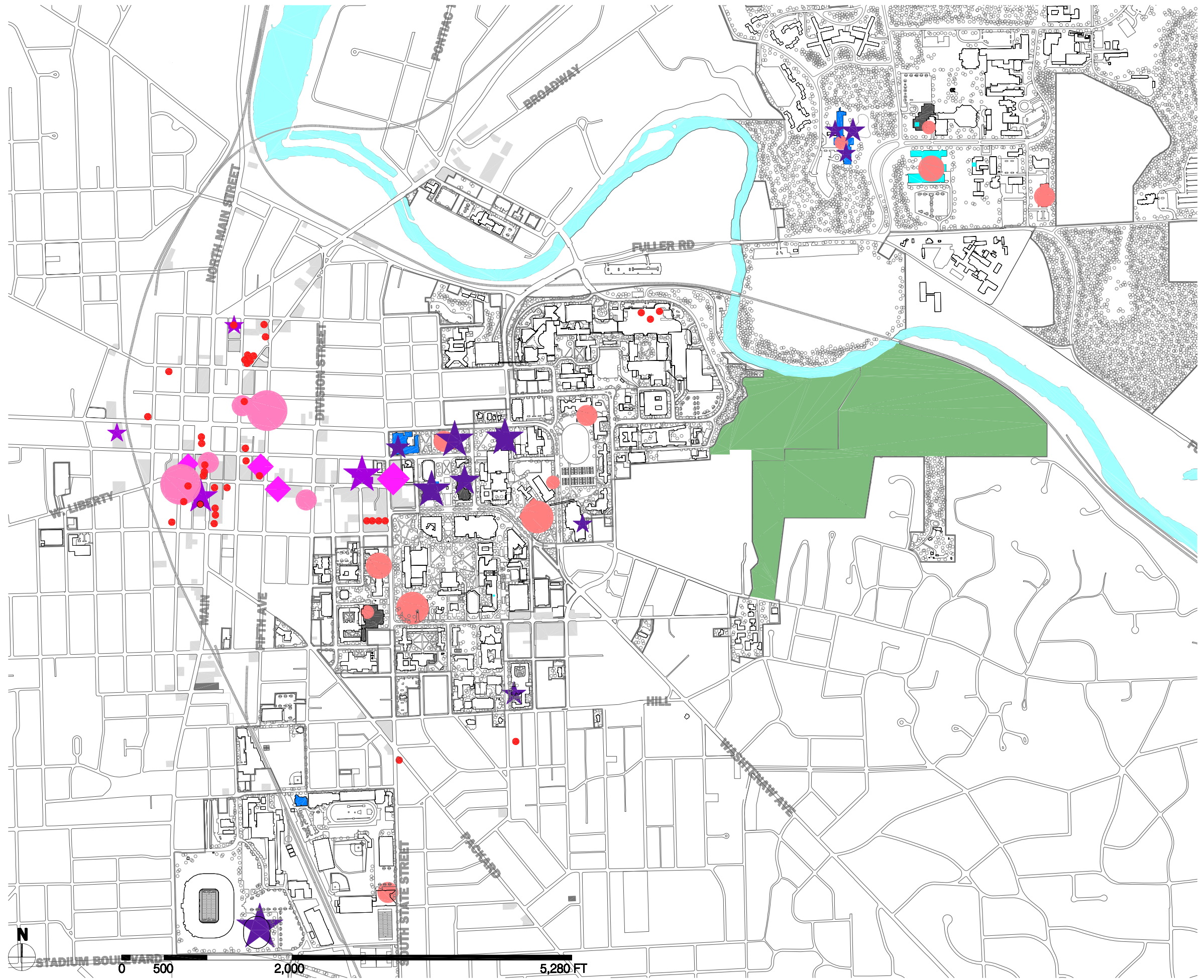
**KEY**

- UM Performance Space
- Ann Arbor Performance Space
- Ann Arbor Entertainment
- Ann Arbor Galleries ○
- UM Museums
- Ann Arbor Museums
- UM School of Music
- UM School of Art & Design
- College of Architecture & Urban Planning
- Arboretum
- Ann Arbor Retail
- Ann Arbor Entertainment
- UM Nodes: Michigan Union, Michigan League & Pierpont Commons
- UM Property Limit

**LAND USE: ARTS**

University of Michigan Campus Plan, Phase I

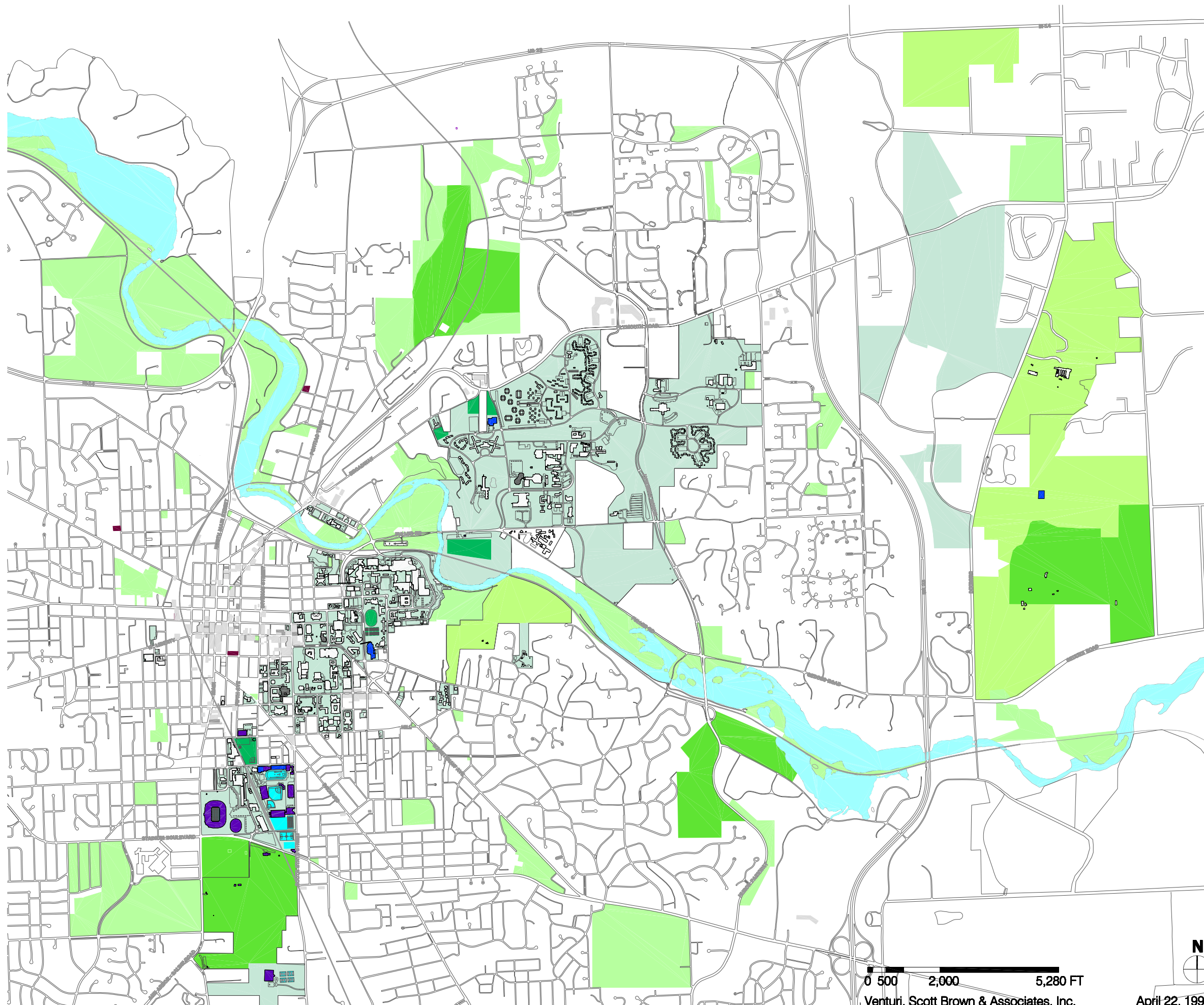
Base Map Source: UM Facilities Planning and Design  
 Information Source: UM Office of Space Analysis,  
 Discover the Ann Arbor and Ypsilanti Area Magazine,  
 Ann Arbor Observer City Guide 1997-1998, American  
 Association of Museums



April 22, 1998

Venturi, Scott Brown & Associates, Inc.

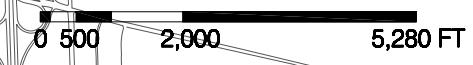




- KEY**
- Ann Arbor Recreational Buildings
  - UM Varsity Sports Buildings
  - UM Intramural Sports Buildings
  - UM Varsity Sports Fields
  - UM Intramural Sports Fields
  - UM Golf Courses
  - UM Land
  - UM Parks & Preserves
  - Ann Arbor Parks
  - Ann Arbor Golf Courses
  - Ann Arbor Retail
  - Ann Arbor Entertainment
  - UM Nodes: Michigan Union, Michigan League, & Pierpont Commons
  - UM Property

**LAND USE: RECREATION**  
 University of Michigan Campus Plan, Phase I

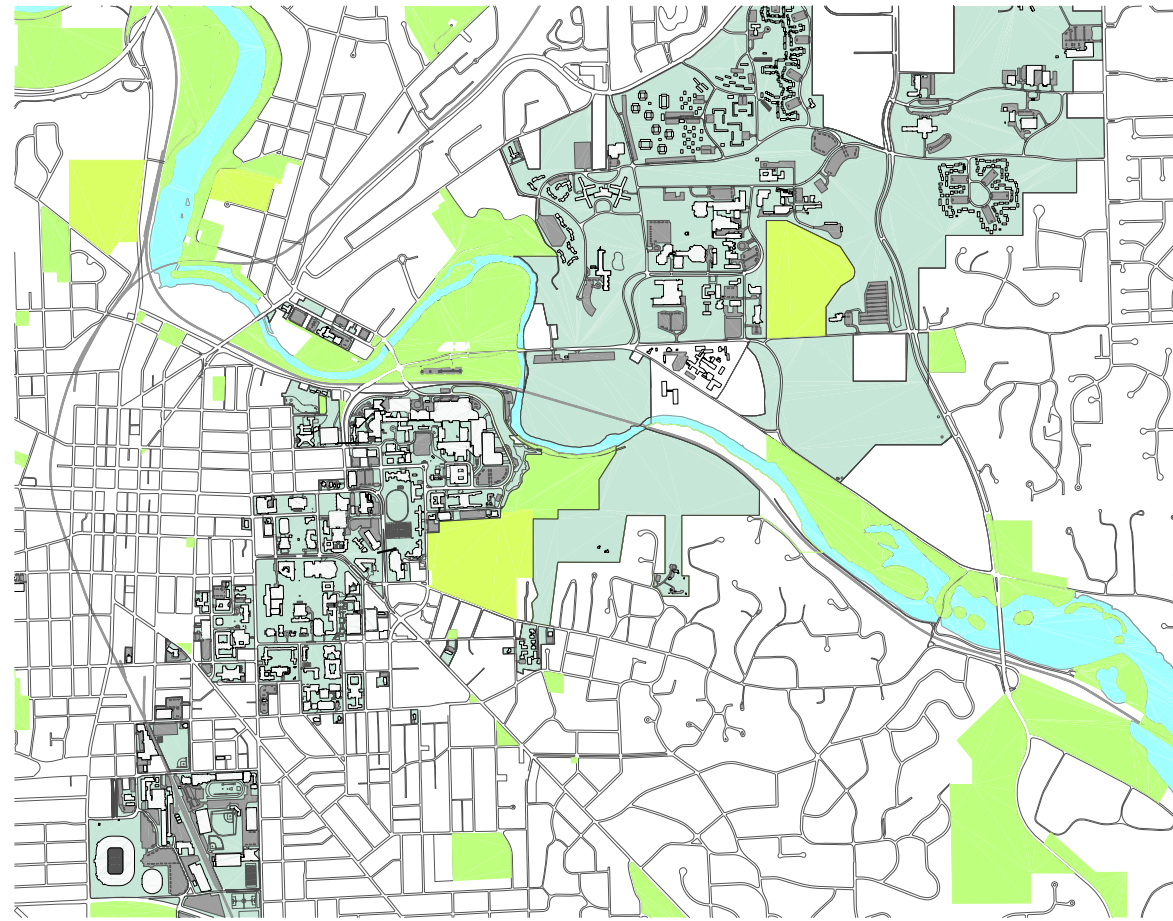
Base Map Source: Facilities Planning & Design  
 Information Source: Ann Arbor Department of Parks & Recreation, Ann Arbor Discover City Guide 1997-1998, Matthaei Botanical Gardens Draft Planning Map 1997



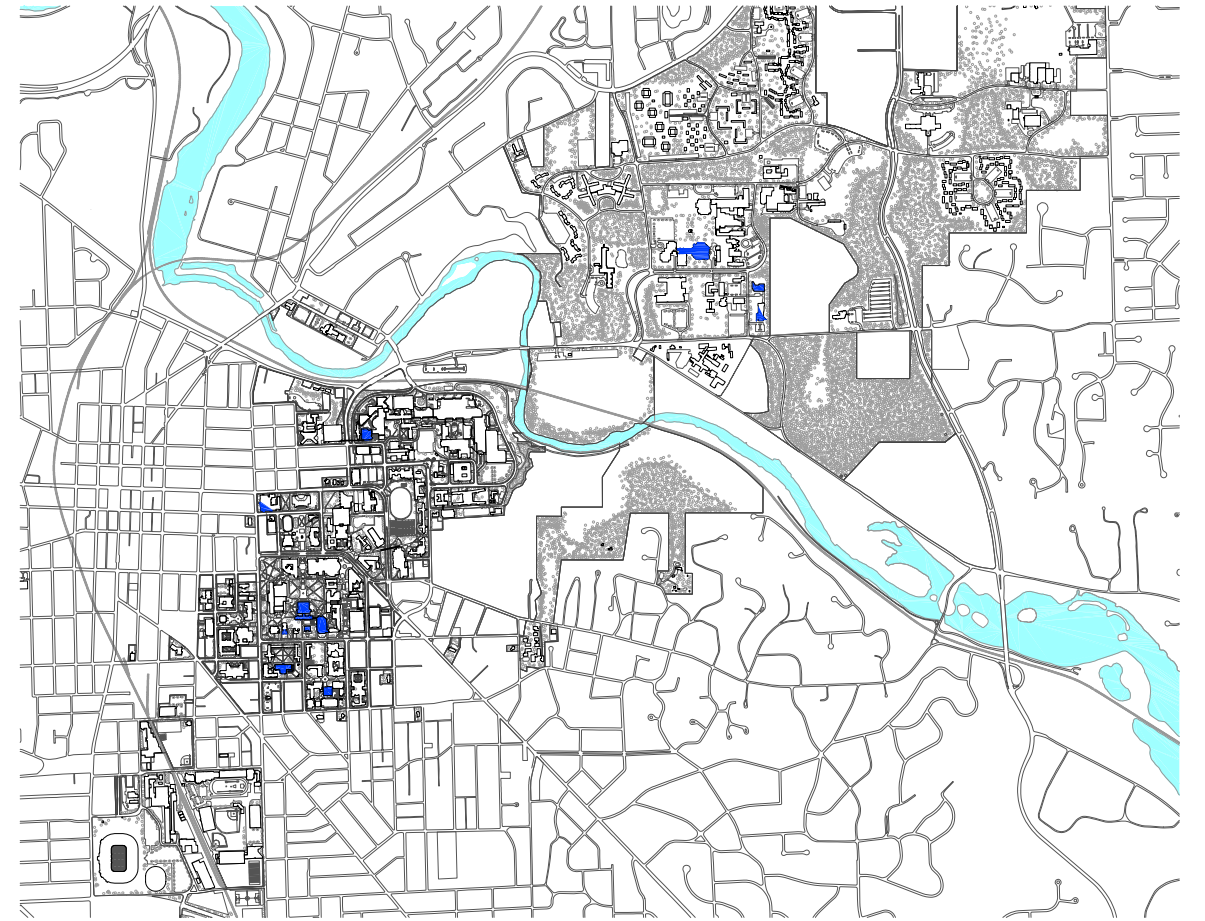
Venturi, Scott Brown & Associates, Inc.

April 22, 1998

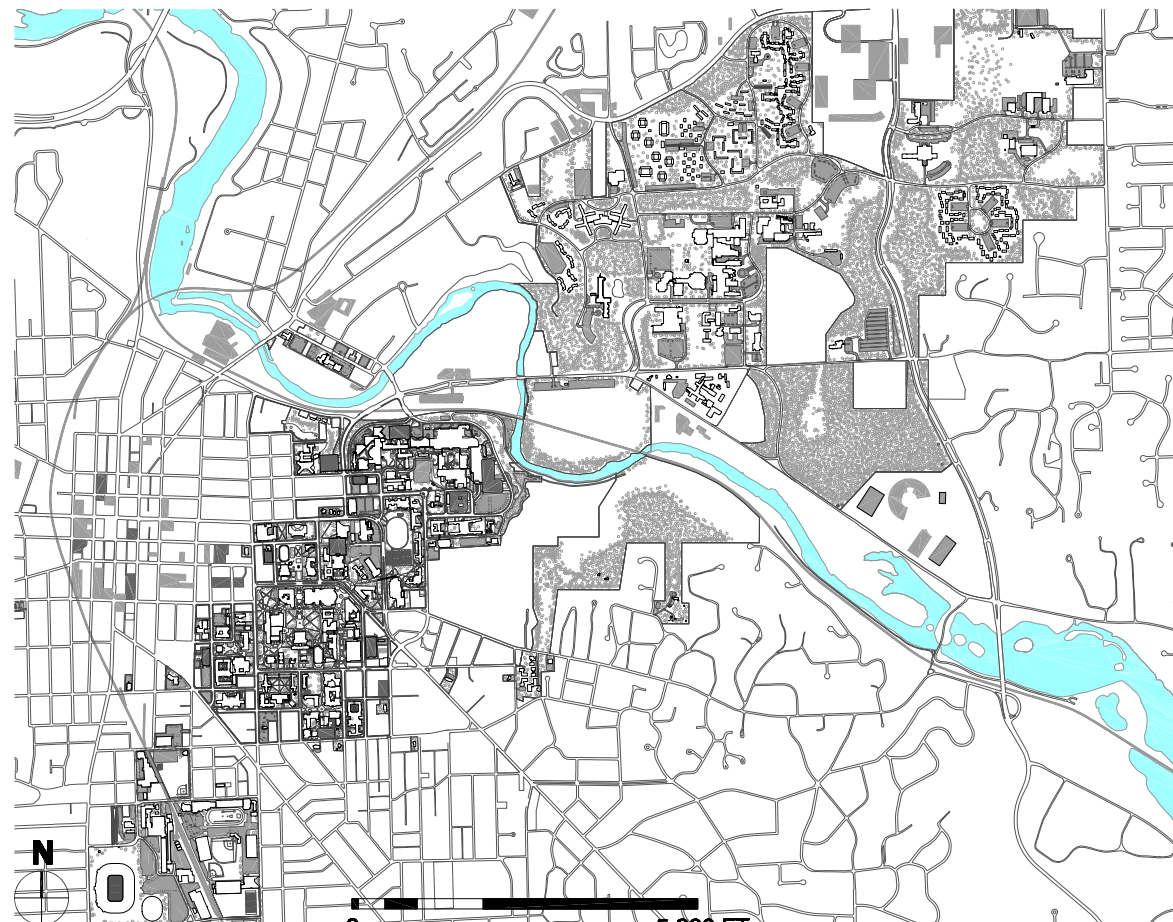




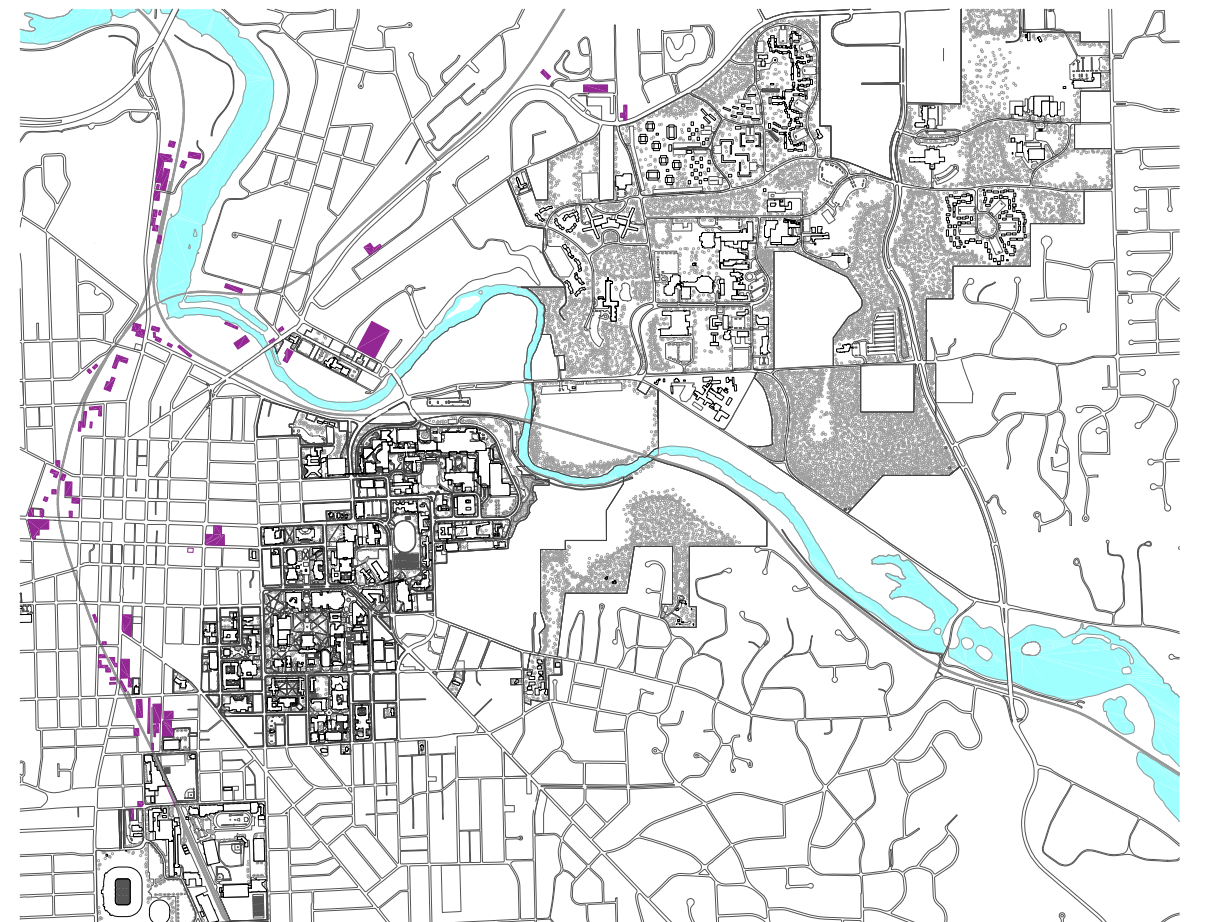
OPEN SPACE



UM LIBRARIES



PARKING



INDUSTRY

- UNIVERSITY OF MICHIGAN LAND USES
  - UM Libraries
  - Parking Lots
  - Parking Garages
- 
- OTHER LAND USES
- Industry
  - Public Open Space
  - Cemeteries
  - Parking Lots
  - Parking Garages

**LAND USE:  
PATTERNS DISAGGREGATED**

University of Michigan Campus Plan, Phase I

Base Map Source: Facilities Planning & Design  
Information Source: UM Office of Space Analysis,  
Hedberg Maps, Inc.

N  
April 22, 1998

0 5,280 FT  
Venturi, Scott Brown & Associates, Inc.



"Open space provides resources supporting the quality of life, human health, psychological, water quality, air quality, soil erosion, aesthetic/scenic quality, and wildlife impacts". (Washtenaw County Metropolitan Planning Commission, 1997)

"In the natural world, everything is interdependent. As the landscape is crissed-crossed with a network of roads, storm sewers, and drainage ditches...nature's important, cost-free controls have been by-passed...By maintaining landscape patterns of large woodlands and wetlands (nodes) and wooded stream valley and drainage-ways, significant natural functions are protected." (Robert Coughlin, et al. 1993)

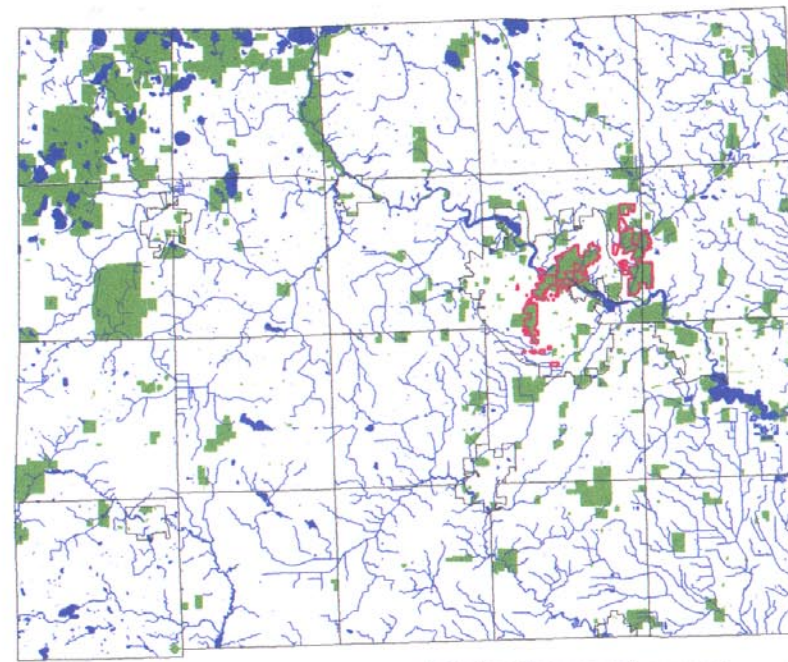
What opportunities exist for the University to tie into regional landscape patterns? How does University open space fit into the larger picture. By planning cooperatively with municipal and regulatory agencies, the University build an open space system that links to a regional network, provides a wider range of recreational opportunities and is ecologically more resilient. The following landscape types represent possible candidates for part of a future open space system:

1. Agricultural Lands (top right): These should be preserved both as a future agricultural resource and for their scenic and cultural values.
2. Fragile Lands (bottom left): Fragile lands are environmentally sensitive areas that are ecologically significant. They should be preserved to provide a representation of regional ecosystems, for educational purposes and for their scenic and cultural values.
3. Traditional Recreational Space (bottom right): These areas are an important component of any open space system and should be included to provide a variety of active recreational opportunities.
4. Cultural Sites (not mapped): These sites are an important part of a cultural heritage and are often important for their educational and scenic value.
5. Brownfields (not mapped): Old industrial sites, abandoned railway right-of-ways, former landfills and other wastelands present a major opportunity for new open space in dense urban areas.

### COMPONENTS OF OPEN SPACE

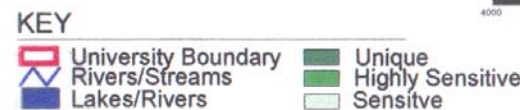
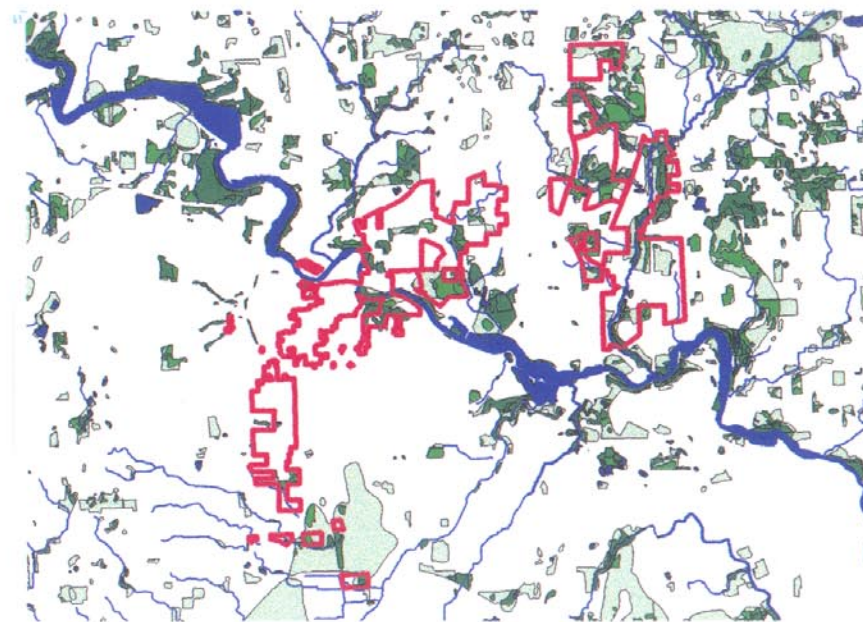
University of Michigan Campus Plan, Phase I

Sources: Facilities Planning & Design  
Ann Arbor Department of Parks & Recreation,  
Ann Arbor Discover City Guide 1997-1998  
Robert Coughlin et al. Guiding Growth. 3rd Ed. Pennsylvania Environmental Council, Inc. 1993.  
Washtenaw County Metropolitan Planning Commission  
Washtenaw County Agricultural Lands and Open Space  
Preservation Plan Final Report December 1977 Geographical Information Systems maps for Regional Open Space, Agricultural Lands and Fragile Lands



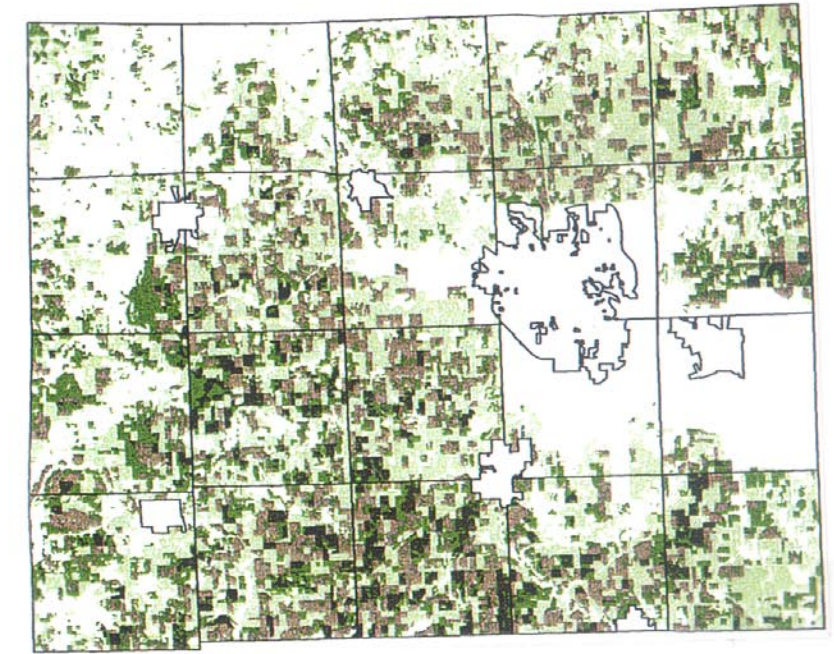
### REGIONAL OPEN SPACE

Source: Washtenaw County Metropolitan Planning Commission 1977



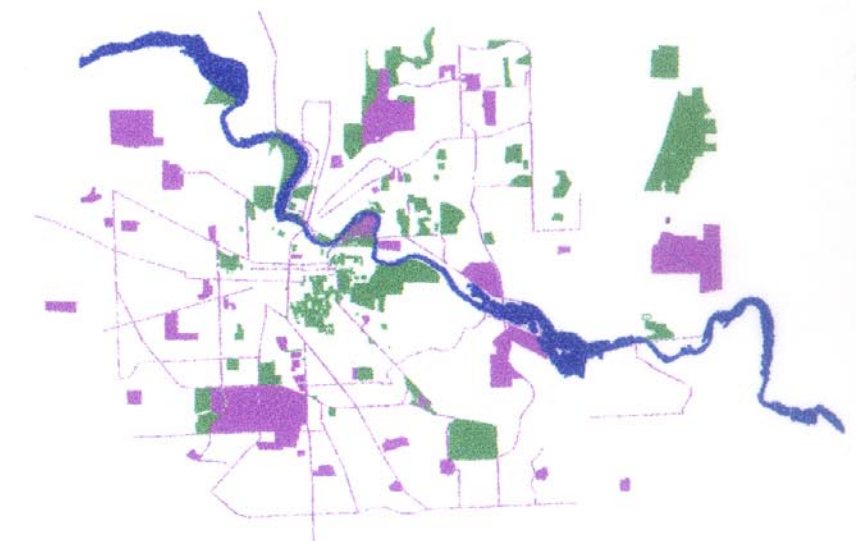
### FRAGILE LANDS

Source: Washtenaw County Metropolitan Planning Commission 1977



### AGRICULTURAL LANDS

Source: Washtenaw County Metropolitan Planning Commission 1977



### TRADITIONAL RECREATIONAL SPACE

Source: Ann Arbor Department of Parks & Recreation, 1997-1998



**KEY**

**DEDICATED 'PUBLIC' OPEN SPACE**  
(unrestricted access and activities)

- Natural Areas**  
areas with native vegetation communities, supporting primarily passive, low intensity use
- Parks/Arboretum**  
areas where native vegetation is interspersed with turf, supporting both active and passive uses.
- Campus Open Space**  
areas with extensive turf and pathways. May include canopy trees. Supports a wide range of active and passive uses
- Sports fields**  
Primarily active uses

**DEDICATED ('SEMI-PUBLIC') OPEN SPACE**  
(restricted access and activities)

- UM Gardens and Reserves**
- School Playgrounds**
- Golf Courses and UM Sports Facilities**
- Cemeteries**
- Valuable Natural Areas**

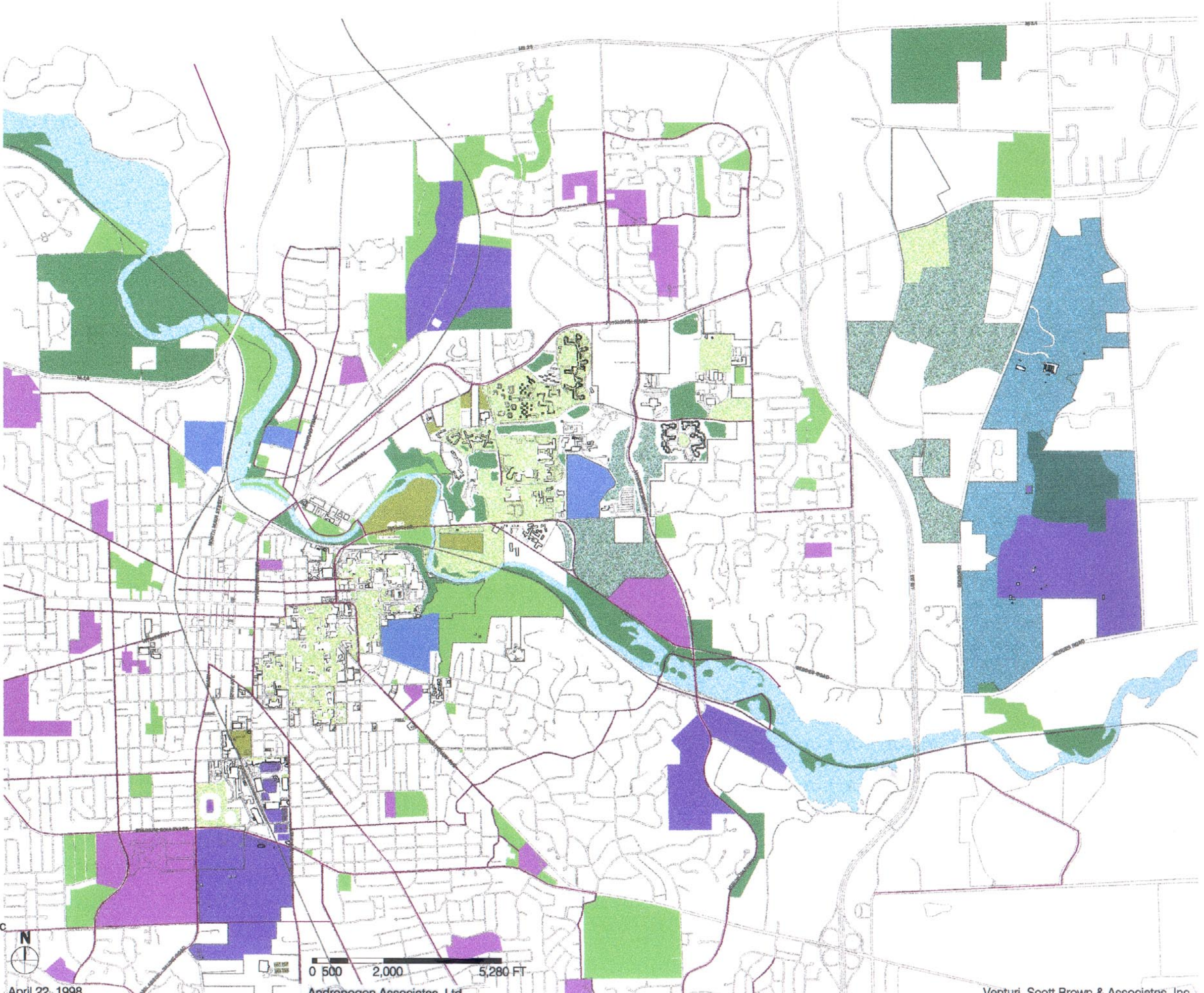
- Undeveloped Open Land with Native Vegetation**
- Bike Routes**
- UM Property**

**OPEN SPACE SYSTEM**  
**Activities and Access**

University of Michigan Campus Plan, Phase I

Base Map Source: Facilities Planning & Design  
Information Source: Ann Arbor Department of Parks & Recreation, Ann Arbor Discover City Guide 1997-1998

School of Natural Resources & Environment, Geographic Information Systems Facility, University of Michigan  
Matthaei Botanical Gardens draft planning map, 1997, topo and golf course limits based on JJR base plan

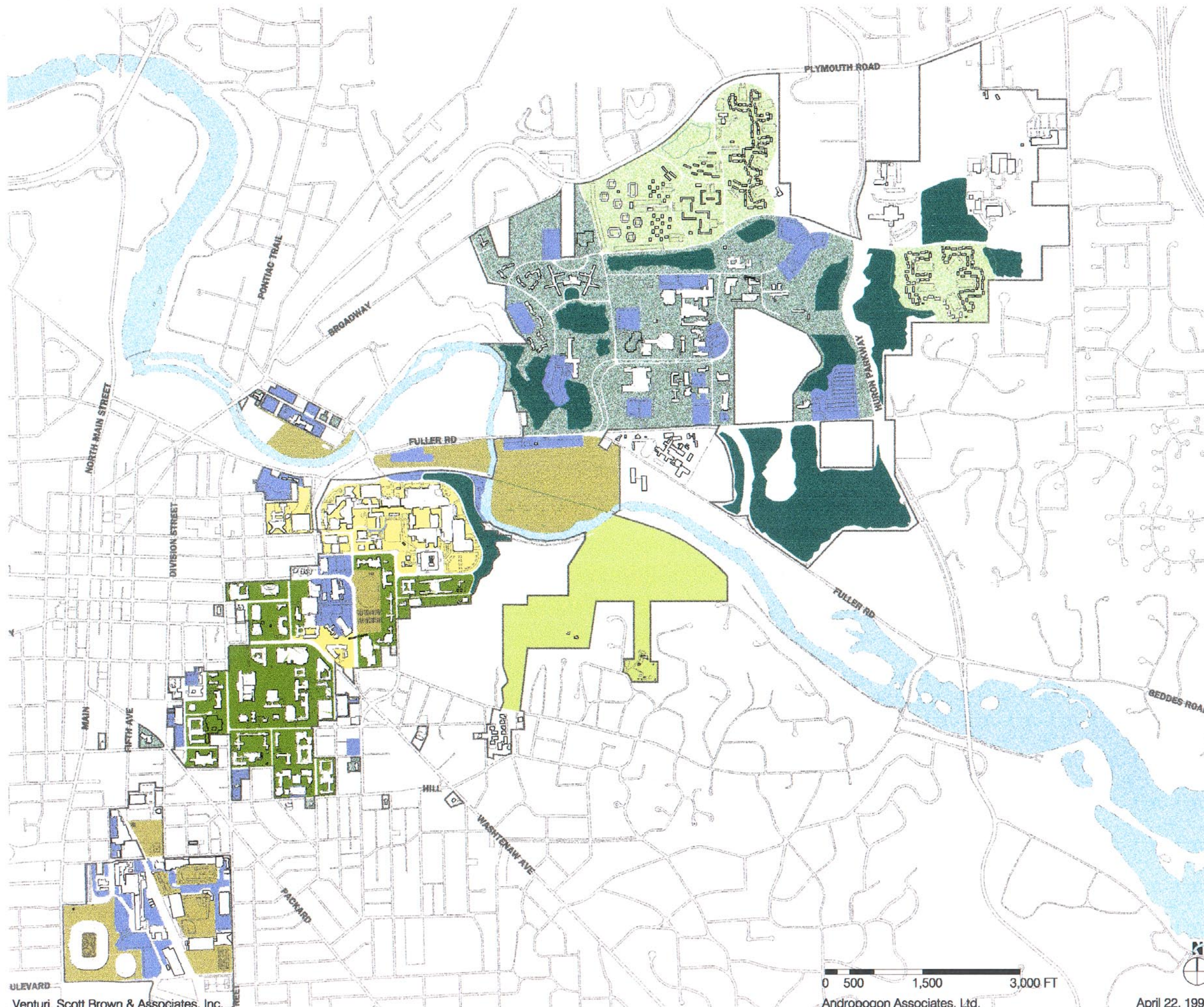


April 22, 1998

Andropogon Associates, Ltd.

Venturi, Scott Brown & Associates, Inc.





**KEY**

- Natural Areas**  
Native vegetation which retains its original structure and species composition.
- Parkland**  
Wooded areas with lawn below mature canopy trees, both coniferous and deciduous.
- Traditional Collegiate Campus**  
Spaces, largely enclosed by buildings, form a unified landscape. Plantings are mostly mature deciduous canopy trees, grouped informally in lawns.
- Suburban Campus**  
Individual modern buildings are surrounded by large lawns with scattered specimen trees. Remnant stands of hardwood forest and conifer plantations accentuate outer edges. In the core, large scale buildings enclose wide, central greens and subsidiary spaces.
- Modern Urban Campus**  
Large scale buildings surround interior courtyards with scattered trees and minimal plantings. Vehicular spaces and paved plazas predominate.
- Residential: Suburban Apartments**  
Low residential buildings are placed between parking lots and wide lawns. Plantings include scattered canopy trees and foundation plantings.
- Athletic Fields and Recreational Turf**  
Very large, flat, open areas of closely mown grass, punctuated by athletic equipment, utilitarian fencing and hedge-like plantings. Some spaces are defined by large buildings, mostly athletic facilities.
- Services and Parking**  
Campus areas largely paved, mostly devoid of planting and dominated by vehicular use.
- UM Property**

**LANDSCAPE TYPES:  
Aesthetic and Spatial Quality**

University of Michigan Campus Plan, Phase I

Base Map Source: Facilities Planning & Design  
Information Source: Hedburg Maps, Inc.:  
Professor Pathfinder's University of Michigan and  
Central Ann Arbor Map



Looking at the "voids" in the landscape which are used by people, these maps show the quality and pattern of those spaces. Like outdoor rooms, the shaped, contained sequence of spaces offer a vivid contrast to the free-flowing spaces of North and South Campuses. Note the prevalence of auto-dominated spaces at the periphery and on North and South Campuses.

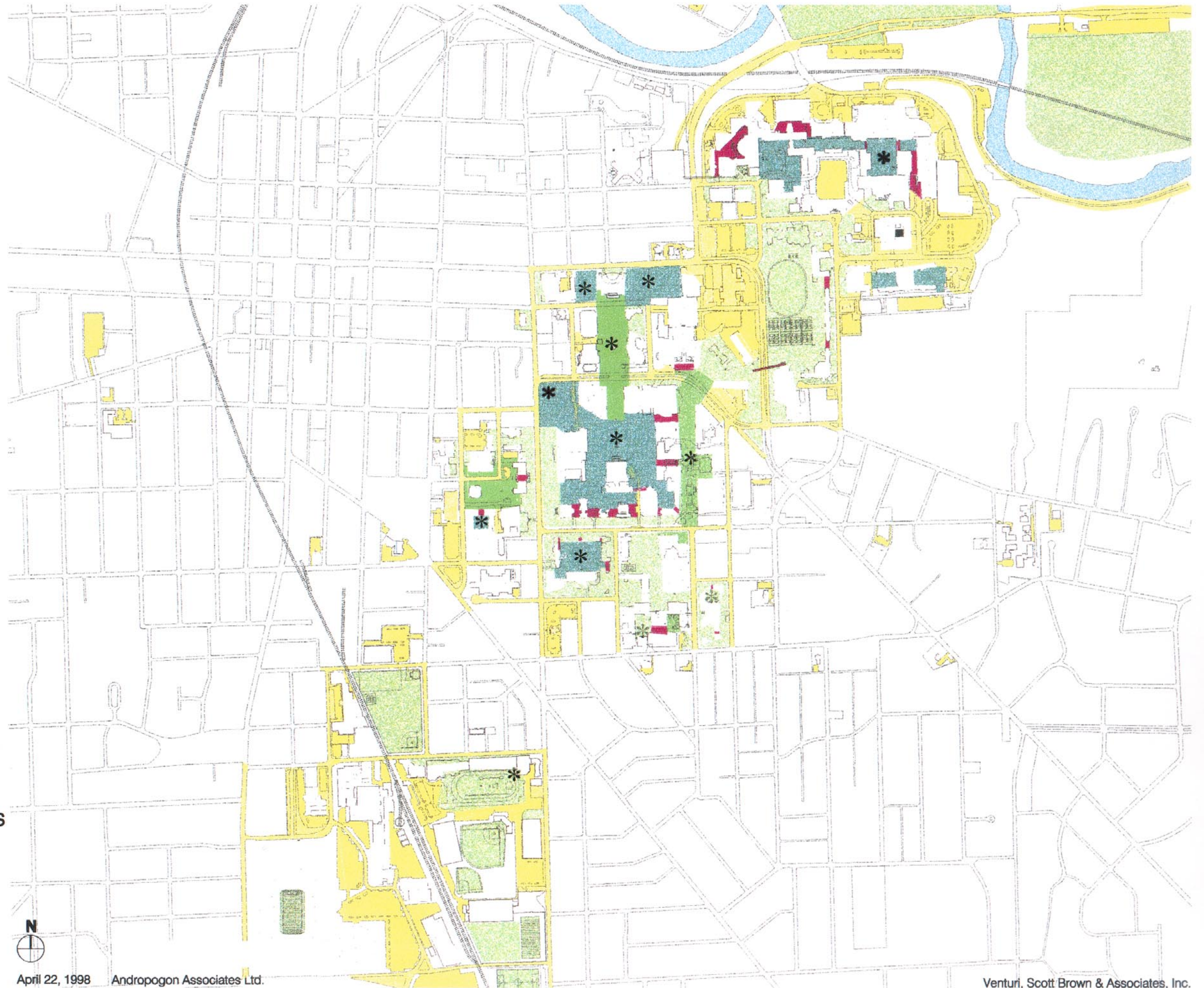
**KEY**

- Campus Green Type Spaces: shaped, contained spaces which are primarily planted
- Plaza or Mall Type Spaces: shaped, contained spaces which are primarily hard surfaced
- Open lawns, lawn extensions, soft planted surfaces, playing fields
- Parking and auto-associated spaces
- Connector spaces
- \* Special outdoor places
  - Alumni Center Space towards Mich. League
  - Assembly Hall (Business School Oak)
  - The Diag
  - East Quadrangle Courtyard
  - East University Walkway
  - Ferry Field Track
  - Ingalls Mall
  - Law Quad
  - Rackham Graduate School Gardens
  - School of Education Courtyard
  - University Hospital Center Gardens
  - West Quadrangle Courtyard

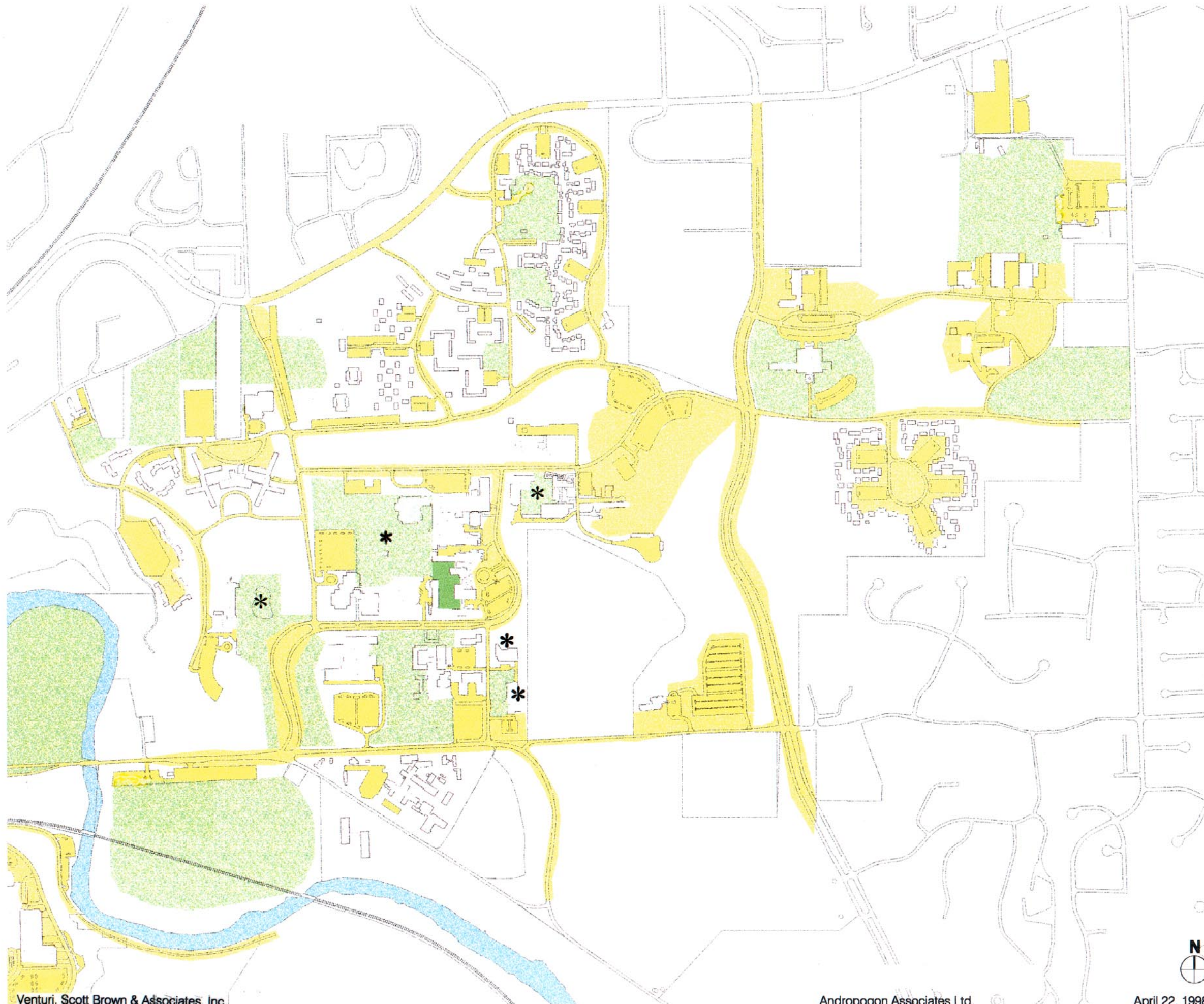
**OPEN SPACE QUALITY:  
CENTRAL, MEDICAL & ATHLETIC CAMPUS**

University of Michigan Campus Plan, Phase I Draft

Base Map Source: Facilities Planning & Design  
 Information Source: Ann Arbor Department of Parks & Recreation, Ann Arbor Discover City Guide 1997-1998  
 Sources of special places: Frederick Mayer letter February 27, 1998; Donna Erickson email March 5, 1998; Ann Knott email March 5, 1998







- KEY**
- Campus Green Type Spaces: shaped, contained spaces which are primarily planted
  - Plaza or Mall Type Spaces: shaped, contained spaces which are primarily hard surfaced
  - Open lawns, lawn extensions, soft planted surfaces, playing fields
  - Parking and auto-associated spaces
  - Connector spaces
  - \* Special outdoor places
- Bentley Historical Library Courtyard  
 Gerald Ford Library Courtyard  
 Moore School of Music Building Pond  
 '47E Reflecting Pool Courtyard  
 Wave Field

**OPEN SPACE QUALITY  
NORTH CAMPUS**

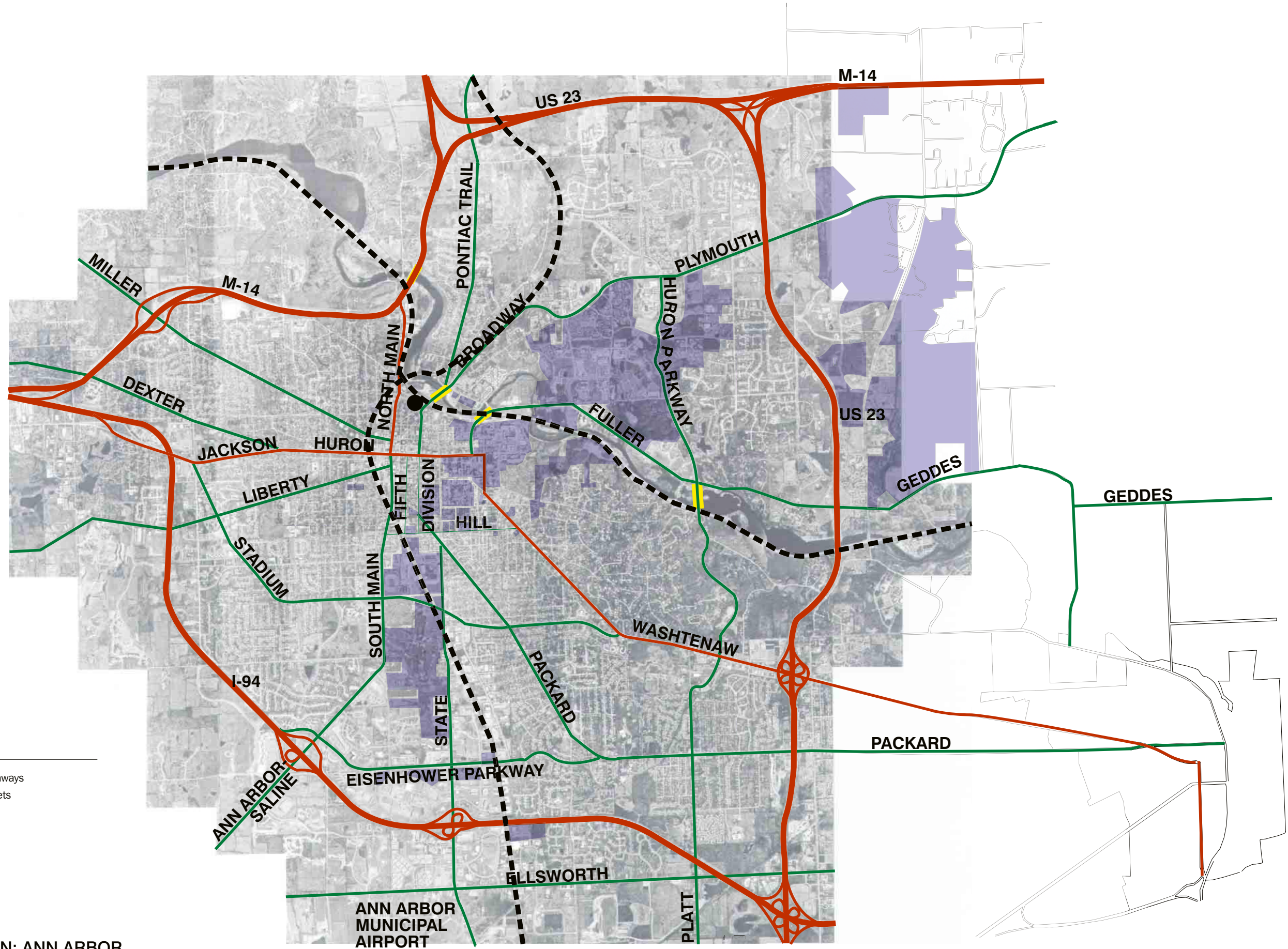
University of Michigan Campus Plan, Phase I Draft

Base Map Source: Facilities Planning & Design  
 Information Source: Ann Arbor Department of Parks & Recreation, Ann Arbor Discover City Guide 1997-1998

Sources of special places: Frederick Mayer letter February 27, 1998; Donna Erickson email March 5, 1998; Ann Knott email March 5, 1998







- KEY**
- Limited Access Highways
  - Major Through Streets
  - Bridges
  - State Roads (Vehicular)
  - Railroad
  - Amtrak Station

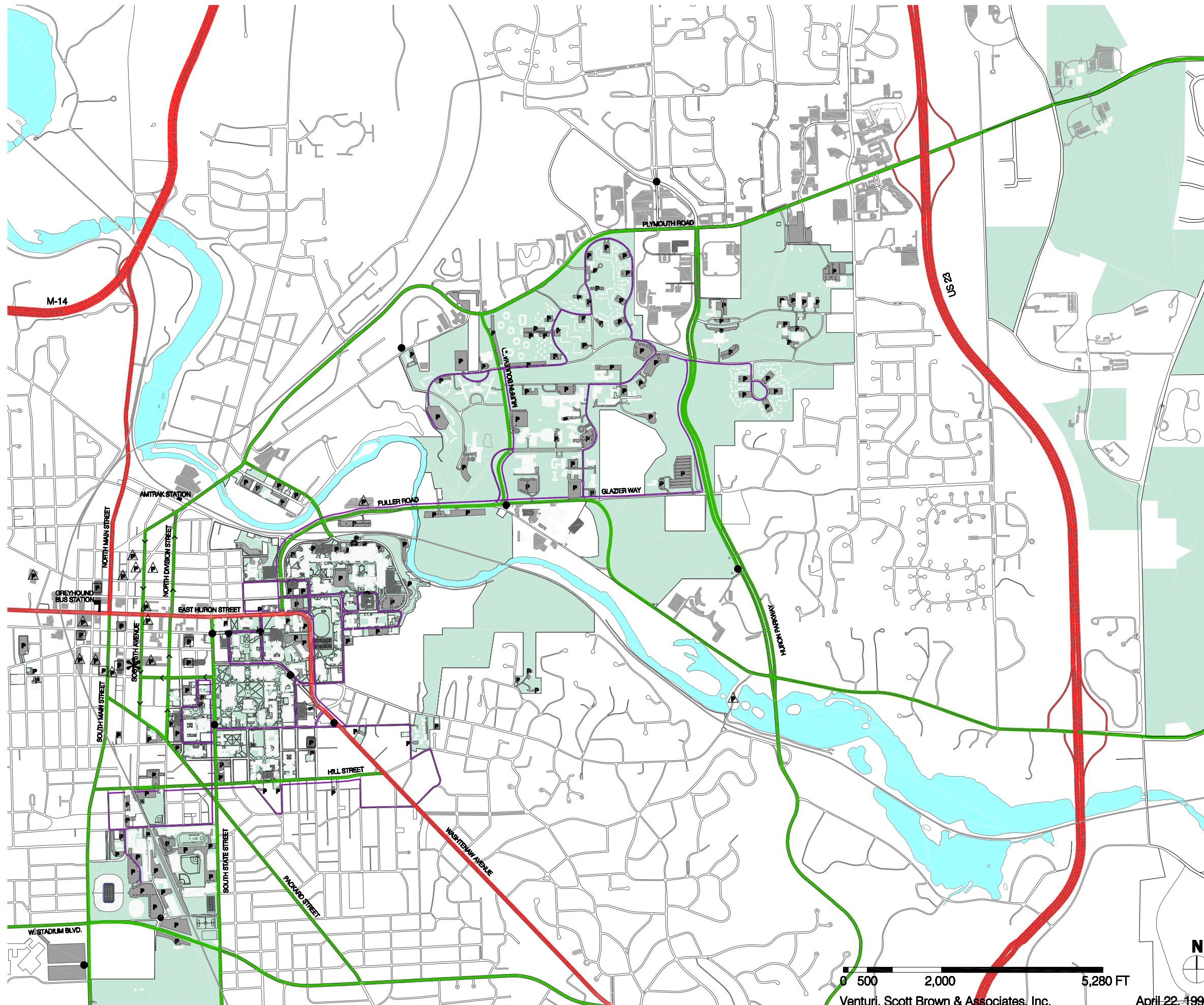
**TRANSPORTATION: ANN ARBOR**  
 University of Michigan Campus Plan, Phase I

Base Map Source: City of Ann Arbor  
 Information Source: Hatcher Graduate Library  
 Map Room



0 500 2,000 5,280 FT  
 Venturi, Scott Brown & Associates, Inc.





- KEY**
- CITY PARKING LOT
  - CITY PARKING GARAGE
  - UNIVERSITY PARKING GARAGE
  - UNIVERSITY PARKING LOT
  - AATA BUS STOP
  - BLAKE TRANSIT CENTER
  - LIMITED ACCESS HIGHWAY
  - STATE ROADS
  - MAJOR THROUGH STREETS
  - UNIVERSITY BUS SYSTEM
  - RAILROAD

**TRANSPORTATION: CAMPUS & SURROUNDING AREAS**

University of Michigan Campus Plan, Phase I

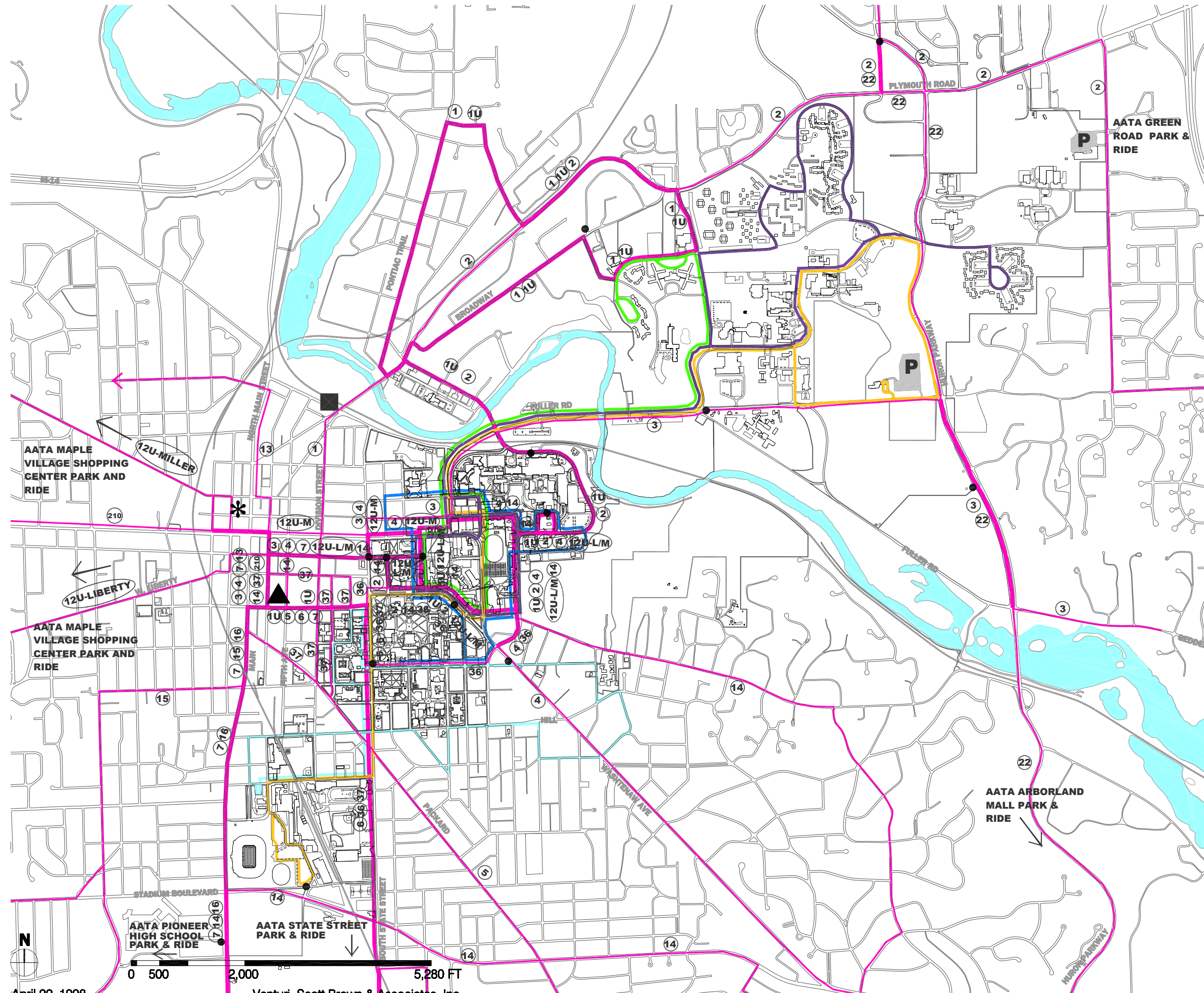
Base Map Source: UM Facilities Planning & Design  
 Information Sources: Ann Arbor Transportation Authority, UM Bus Schedule Map, & Universal Map



Venturi, Scott Brown & Associates, Inc.

April 22, 1998





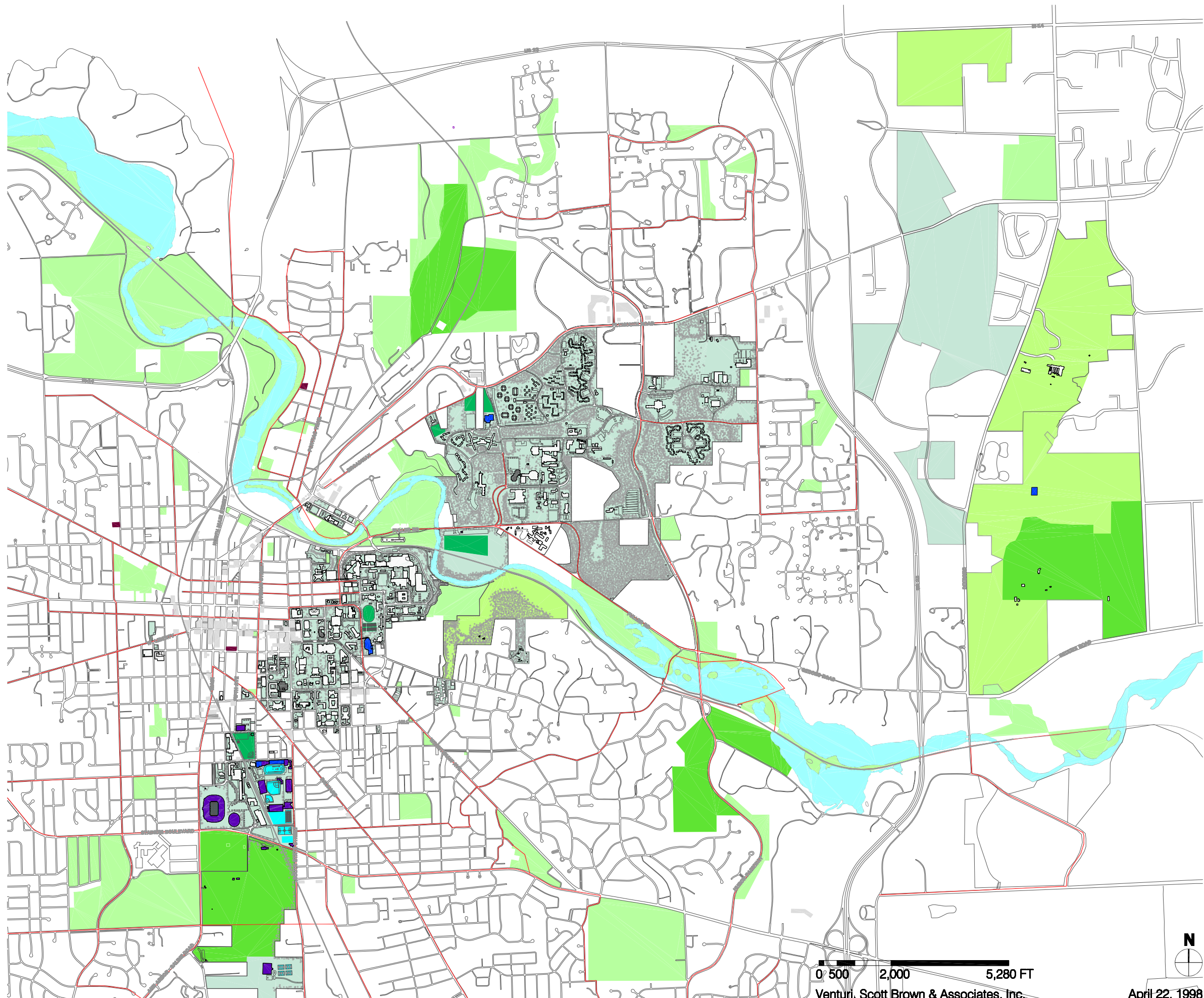
- KEY**
- UM Northwood Route
  - UM Commuter Route
  - UM Bursley-Baits Route
  - UM Night Owl North Route
  - UM Night Owl South Route
  - AA Single Bus Route
  - AA Multiple Bus Route
  - ▲ Blake Transfer Center
  - Terminus for all AA routes except:  
1U, 12U-Liberty, 12U-Miller, 22, 38
  - \* Greyhound Bus Station
  - AATA Primary Stops
  - Amtrak Station
  - P AATA Commuter Parking Lot
  - UM Property Limit

**UNIVERSITY AND ANN ARBOR  
TRANSIT ROUTES**

University of Michigan Campus Plan, Phase I

Base Map Source: UM Facilities Planning & Design  
 Information Sources: Ann Arbor Transportation  
 Authority, UM Bus Schedule Map





- KEY**
- Ann Arbor Bicycle Routes
  - Ann Arbor Recreational Buildings
  - UM Varsity Sports Buildings
  - UM Intramural Sports Buildings
  - UM Varsity Sports Fields
  - UM Intramural Sports Fields
  - UM Land
  - UM Parks & Preserves
  - Ann Arbor Parks
  - Golf Courses
  - Ann Arbor Retail
  - Ann Arbor Entertainment
  - UM Nodes: Michigan Union, Michigan League, & Pierpont Commons
  - UM Property

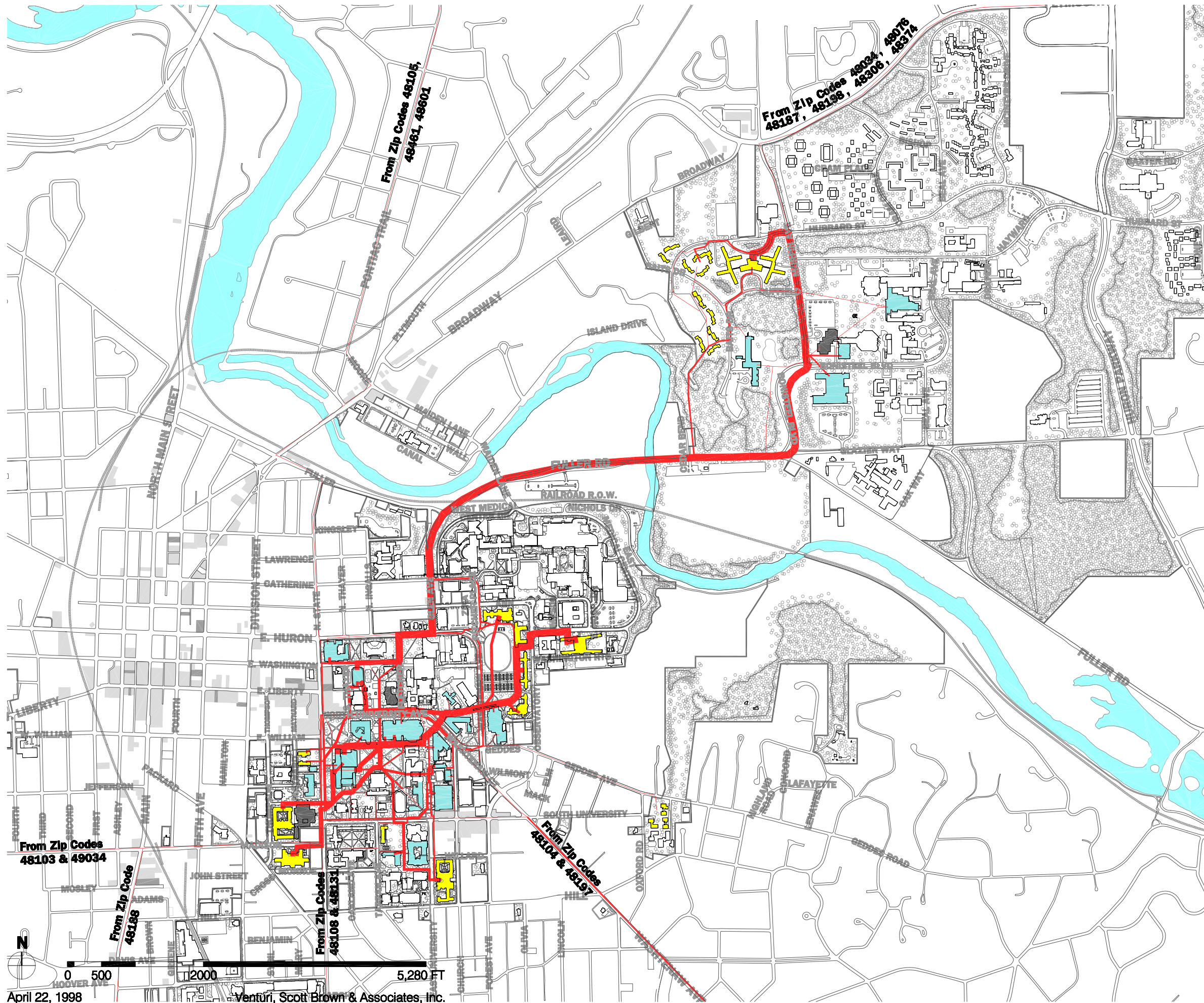
**BICYCLE ROUTES**  
 University of Michigan Campus Plan, Phase I

Base Map Source: Facilities Planning & Design  
 Information Source: Ann Arbor Department of Parks & Recreation, Ann Arbor Discover City Guide 1997-1998, Matthaei Botanical Gardens Draft Planning Map 1997

0 500 2,000 5,280 FT  
 Venturi, Scott Brown & Associates, Inc.

N  
 April 22, 1998





From a Sample of 1000 Freshmen  
Residence to Wednesday First Class

- 1 - 9 Students
- 10 - 29 Students
- 30 - 59 Students
- 60 - 99 Students
- 100 + Students

**KEY**

- Routes to Class (Includes Pedestrian & Vehicular Routes)
- UM Student Housing with Freshmen
- Academic Building with Freshmen's First Class
- Ann Arbor Retail
- Ann Arbor Entertainment
- UM Nodes: Michigan Union, Michigan League & Pierpont Commons
- UM Property

**FRESHMEN PATH DIAGRAM:  
RESIDENCE TO FIRST CLASS**

University of Michigan Campus Plan, Phase I

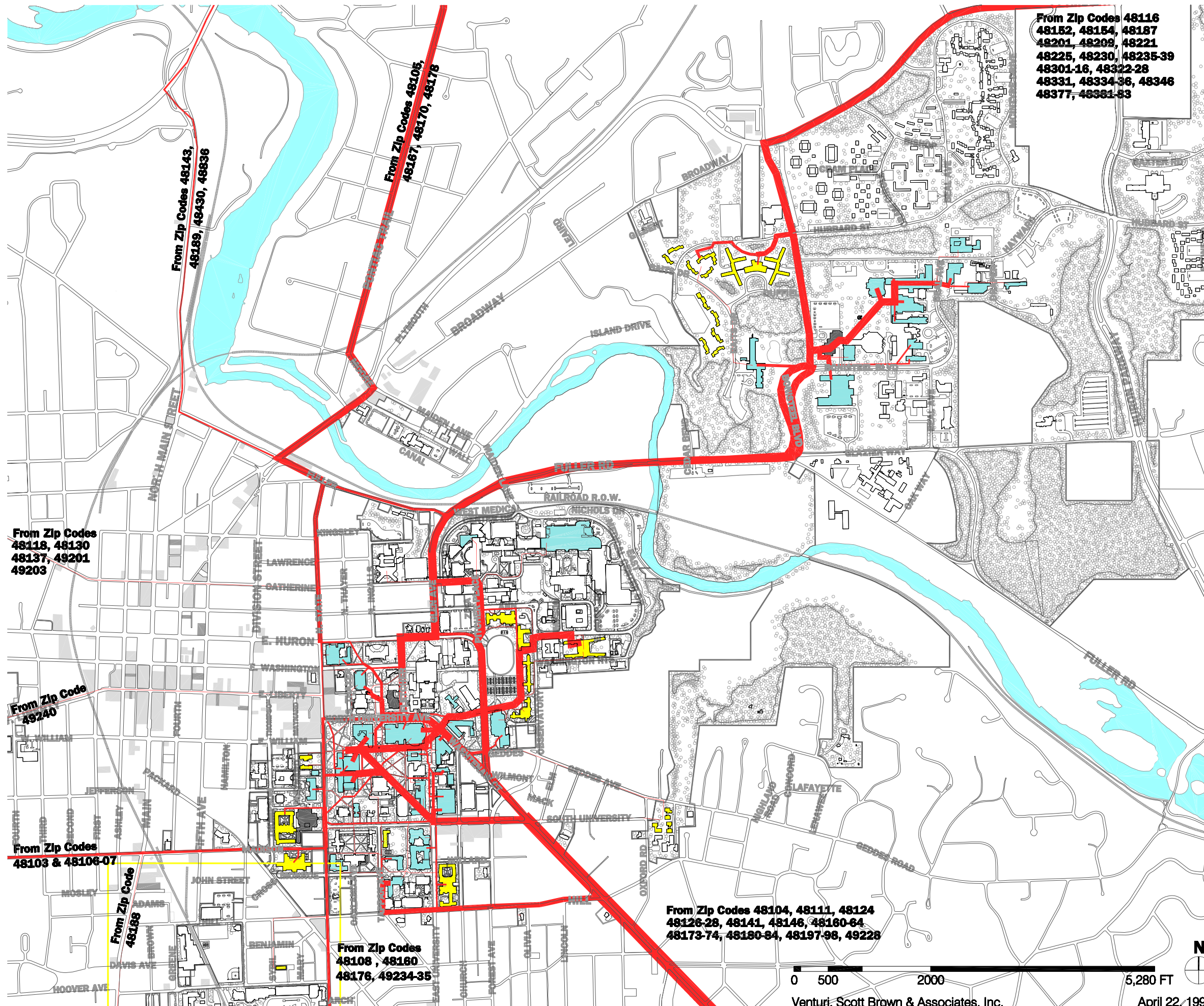
Base Map Source: UM Facilities Planning & Design  
Information Source: Office of the Registrar



April 22, 1998

Venturi, Scott Brown & Associates, Inc.





From Zip Codes 48116  
 48152, 48154, 48187  
 48201, 48209, 48221  
 48225, 48230, 48235-39  
 48301-16, 48322-28  
 48331, 48334-36, 48346  
 48377, 48381-83

From Zip Codes 48143,  
 48189, 48430, 48836

From Zip Codes 48105,  
 48167, 48170, 48178

From Zip Codes  
 48118, 48130  
 48137, 49201  
 49203

From Zip Code  
 49240

From Zip Codes  
 48103 & 48106-07

From Zip Code  
 48188

From Zip Codes  
 48108, 48180  
 48176, 49234-35

From Zip Codes 48104, 48111, 48124  
 48126-28, 48141, 48146, 48160-64  
 48173-74, 48180-84, 48197-98, 49228

From a Sample of 2000 Seniors  
 Residence to Wednesday First Class

- 1 - 9 Students
- 10 - 29 Students
- 30 - 59 Students
- 60 - 99 Students
- 100 - 499 Students
- 500 + Students

**KEY**

- Routes to Class (Includes Pedestrian & Vehicular Routes)
- UM Student Housing with Seniors
- Academic Building with Seniors' First Class
- Ann Arbor Retail
- Ann Arbor Entertainment
- UM Nodes: Michigan Union, Michigan League & Pierpont Commons
- UM Property

**SENIOR PATH DIAGRAM:  
 RESIDENCE TO FIRST CLASS**

University of Michigan Campus Plan, Phase I

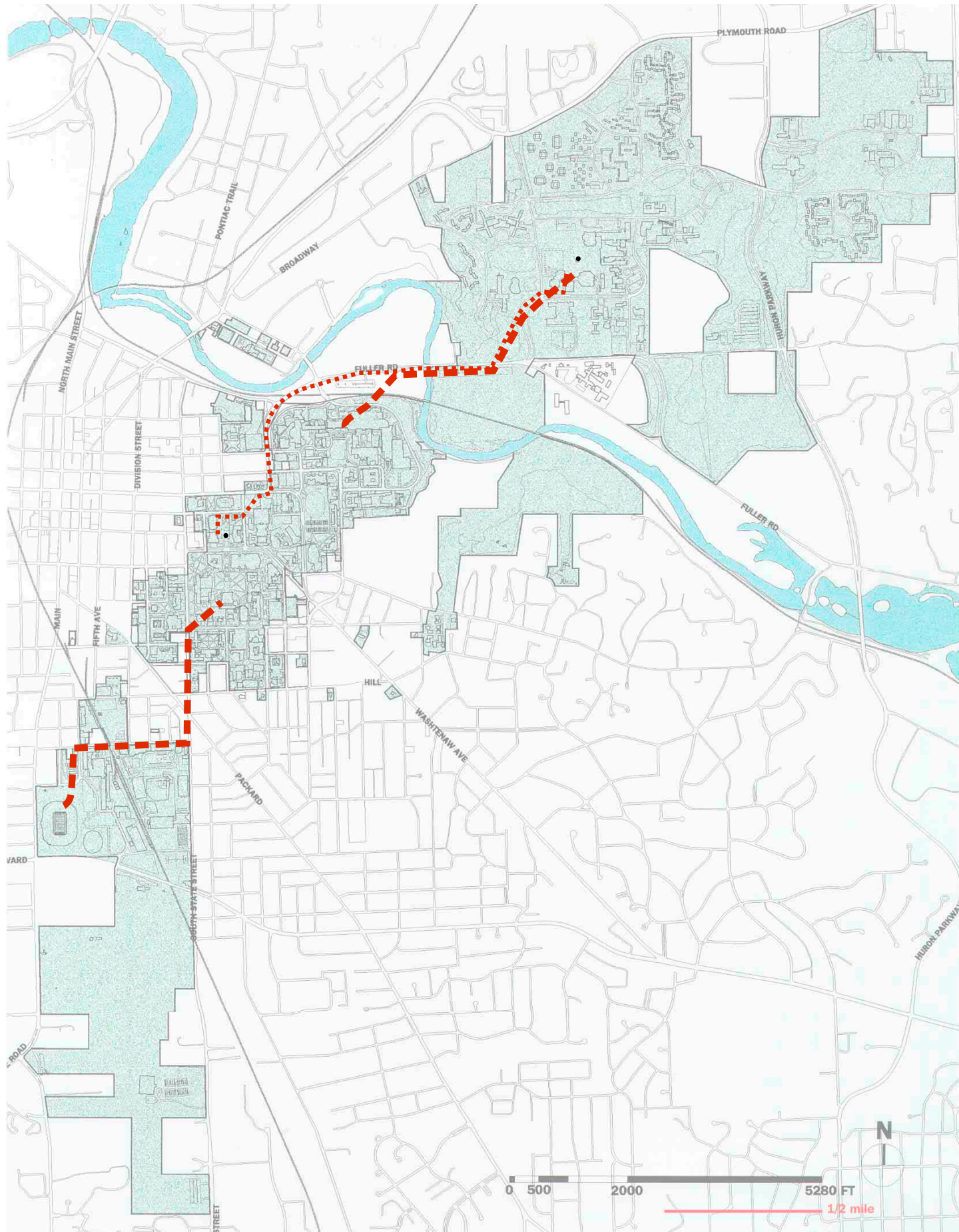
Base Map Source: UM Facilities Planning & Design  
 Information Source: Office of the Registrar

0 500 2000 5,280 FT

Venturi, Scott Brown & Associates, Inc.

April 22, 1998

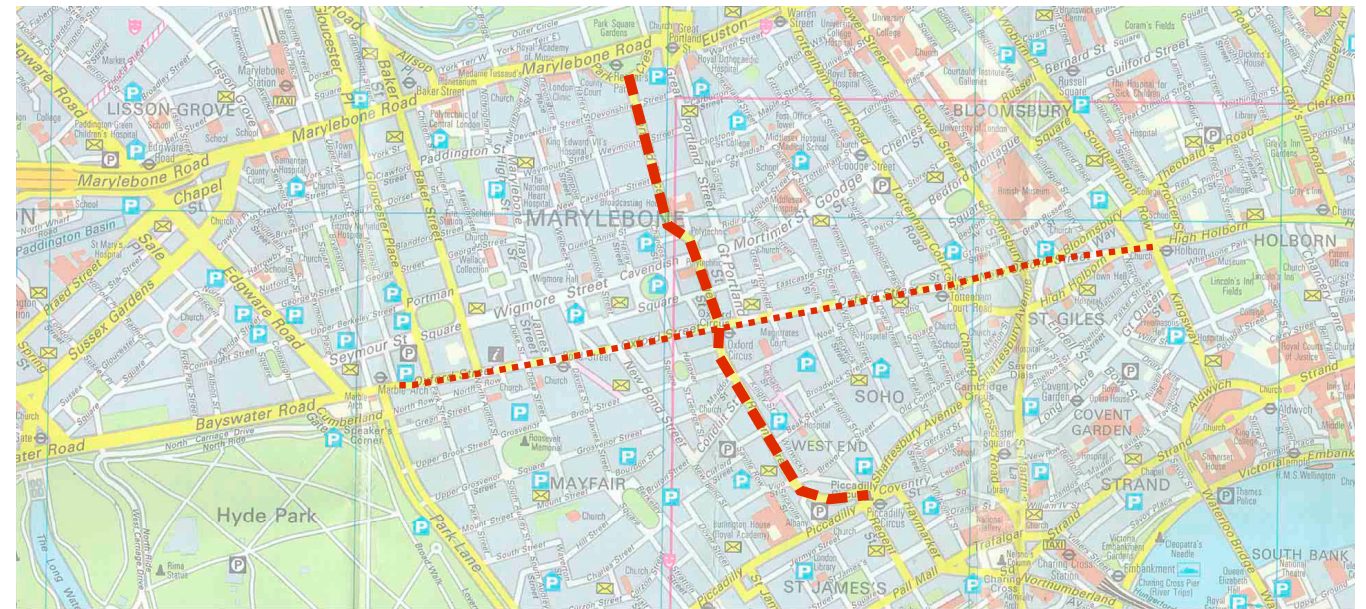




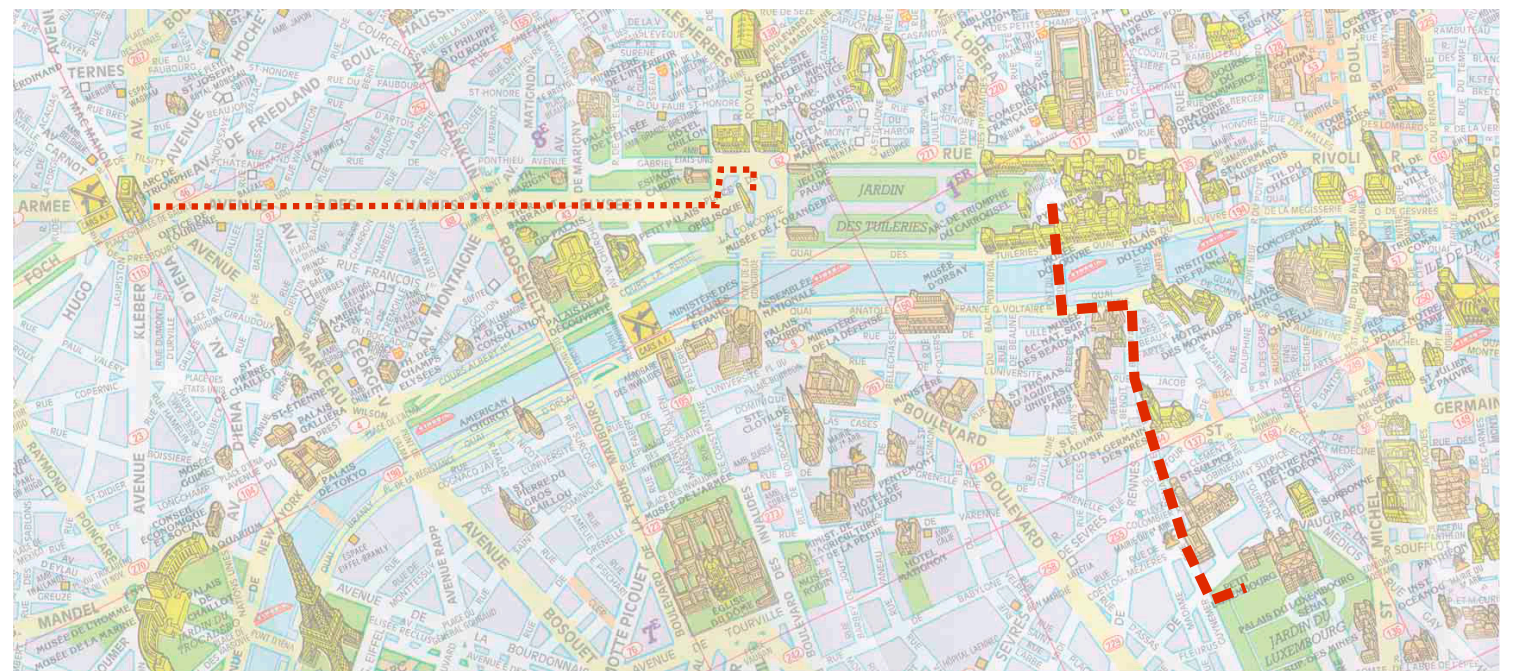
**Ann Arbor:** from Central Campus to Michigan Stadium (approx. 1 mi.); Burton Bell Tower to Lurie Bell Tower (approx. 1 ½ mi.); From Medical Campus to Lurie Bell Tower (approx. 1 mi. illegally crossing railroad tracks)



**Washington, DC:** from Union Station to National Air and Space Museum (approx. 1 mi.); White House to Capitol (approx. 1 ½ mi.)

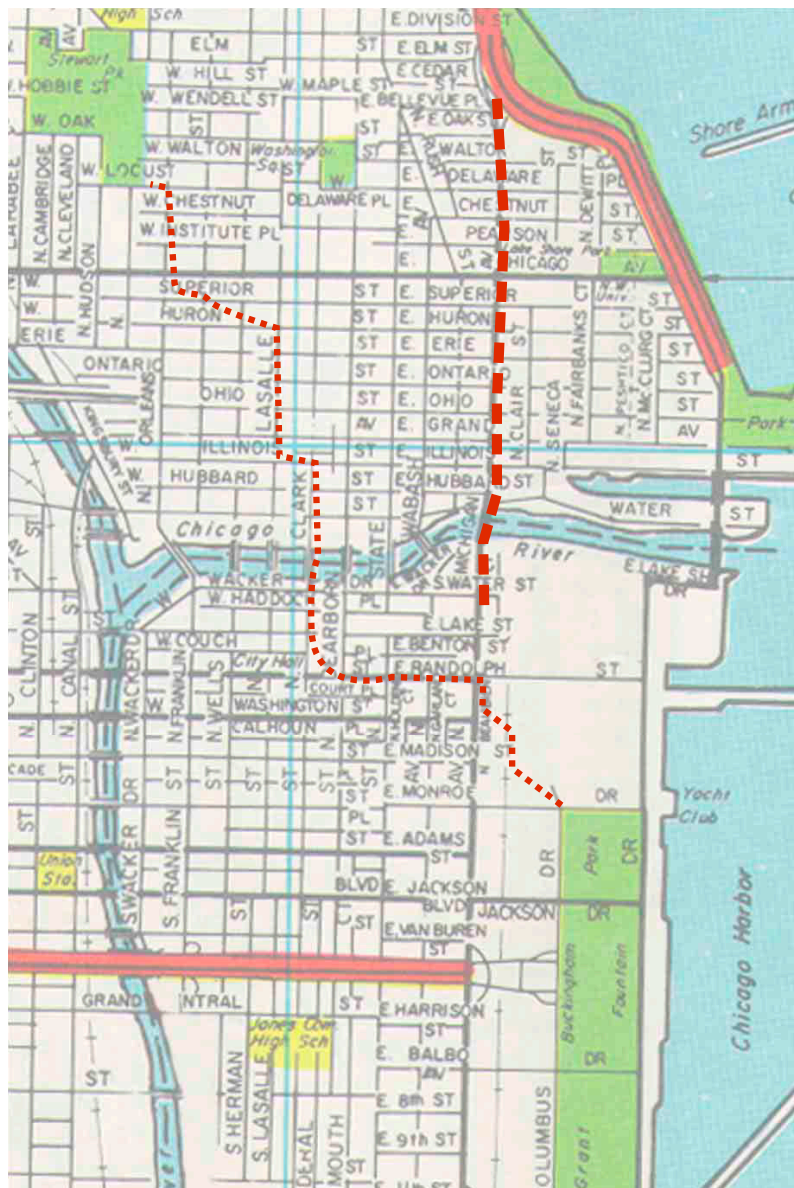


**London:** from Regent's Park to Picadilly Circus (approx. 1 mi.); Marble Arch to Holborn (approx. 1 ½ mi.)



**Paris:** from Luxembourg Palace to the Louvre (approx. 1 mi.); L'Arc de Triomphe to the Obelisk (approx. 1 ½ mi.)

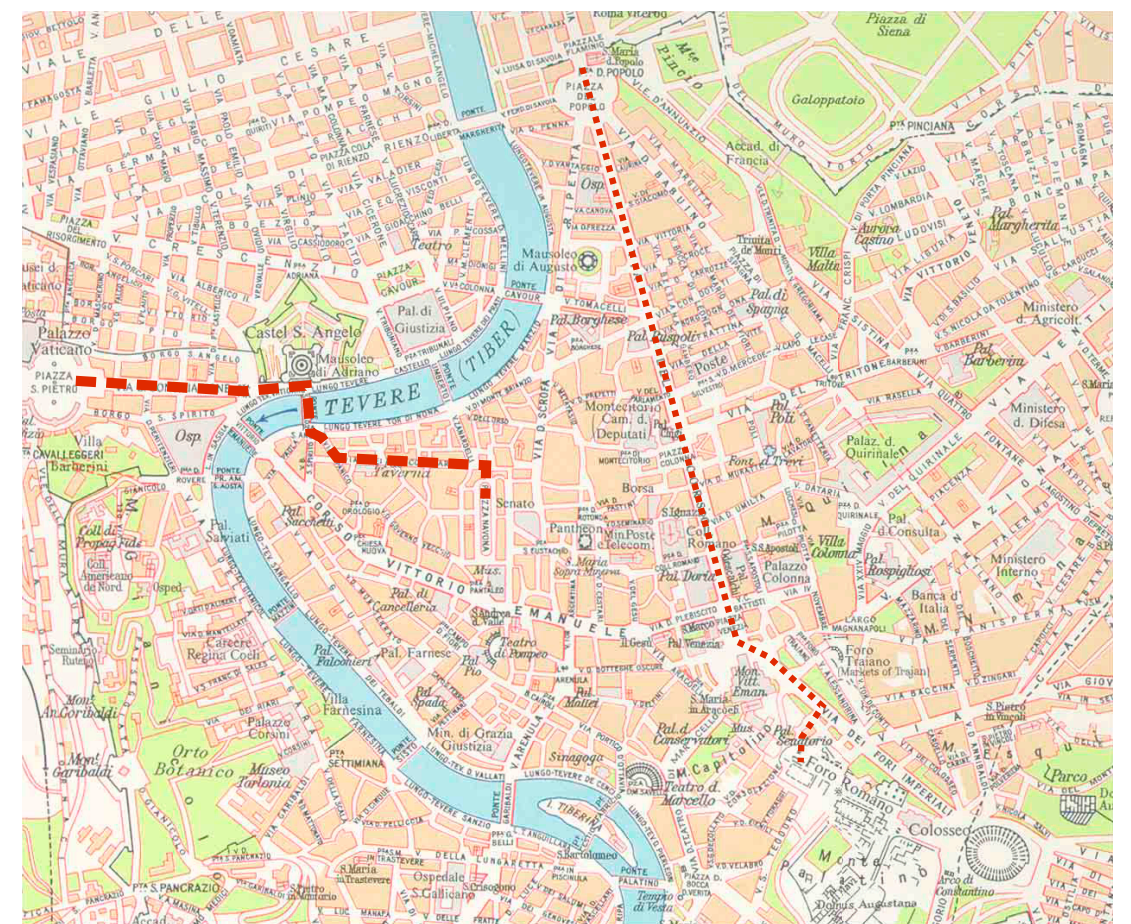




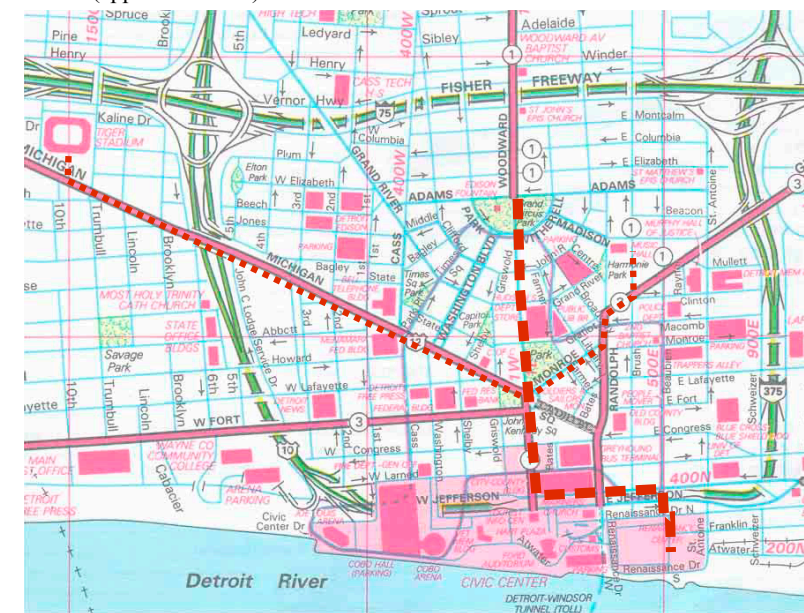
**Chicago:** Magnificent Mile; from Stewart Park to Grant Park (approx. 1 ½ mi.).



**Manhattan:** from Columbus Circle to Public Library (approx. 1 mi.); Public Library to the Whitney (Approx. 1 ½ mi.); from Columbus Circle to Cooper-Hewitt (approx. 1 ½ mi.)



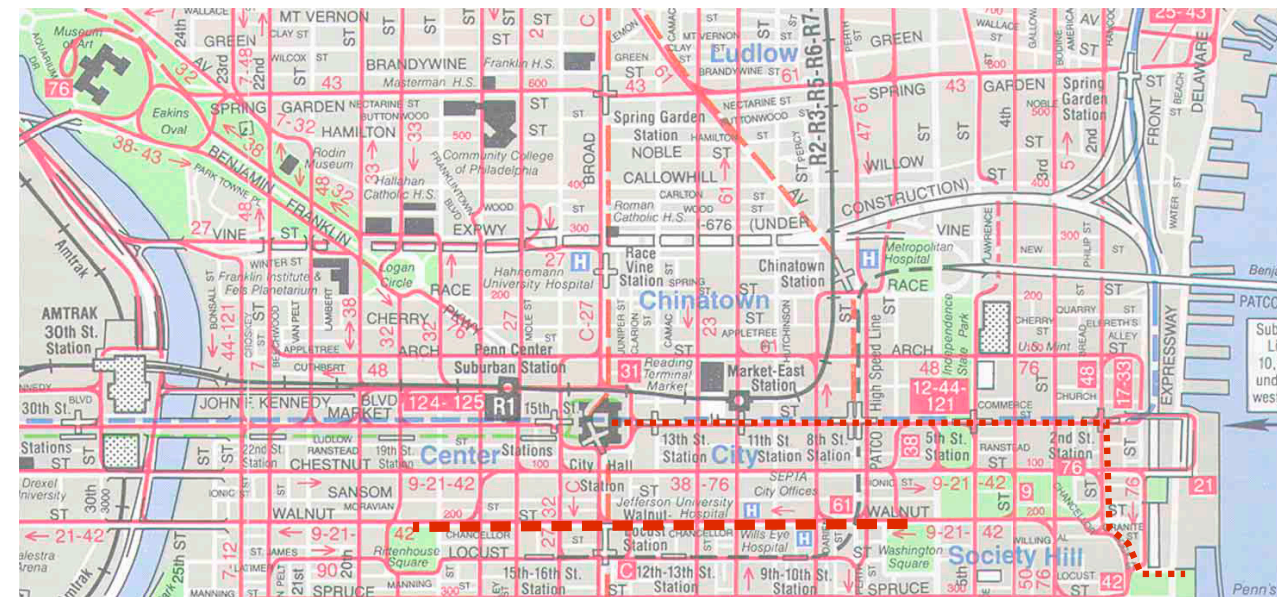
**Rome:** from Piazza S. Pietro to Piazza Navona (approx. 1 mi.), 1 ½ mi. walk from Piazza del Popolo to Roman Forum (approx. 1 ½ mi.)



**Detroit:** from Renaissance Center to Grand Circus Park (approx. 1 mi.); Tiger Stadium to the Music Hall (approx. 1 ½ mi.)



**Venice:** from Accademia Bridge to Campo dei S. Giovanni e Paolo (approx. 1 mi.)



**Philadelphia:** from Rittenhouse Square to Washington Square (approx. 1 mi.); City Hall to Penn's Landing (approx. 1 ½ mi.)

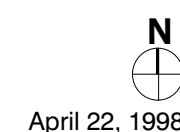
**KEY**  
 ———— APPROX. 1 MI.  
 - - - - - APPROX. 1 ½ MI.

**SCALE COMPARISONS:  
 WALKING DISTANCES**

University of Michigan Campus Plan, Phase I

Map Source: \*Rand McNally; □Hallwag; △ADC; °Gabelli; •Septa

0 500 2,000 5,280 FT  
 Venturi, Scott Brown & Associates, Inc.





BLANK PAGE



# Interdisciplinary Linkages

As Reported by the Deans

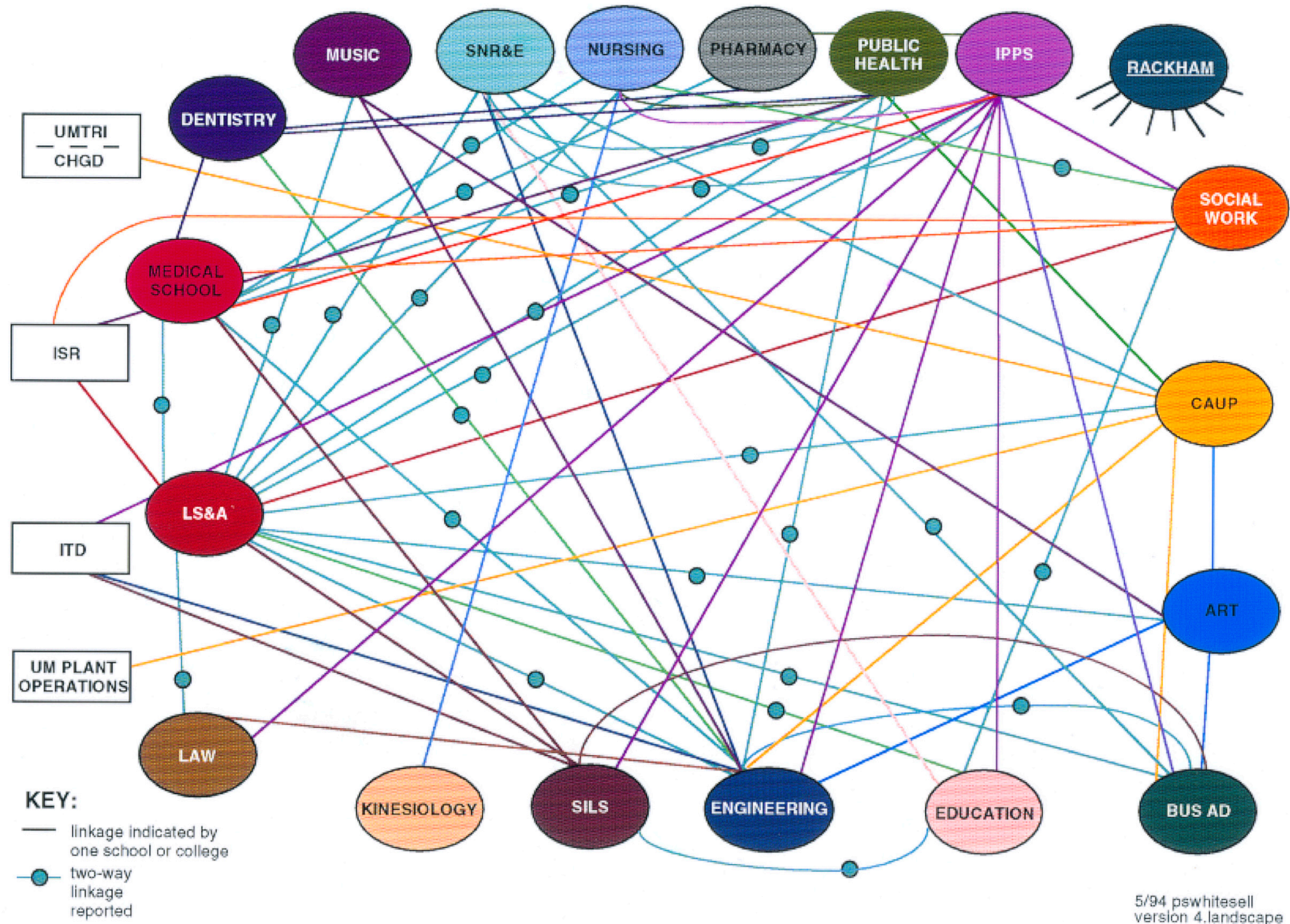
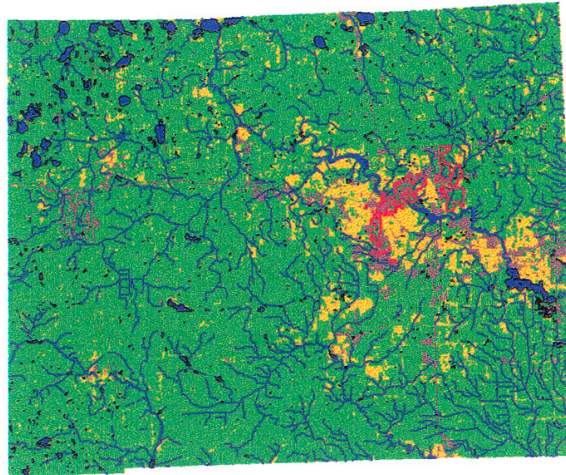


Diagram: Patricia S. Whitesell,  
UM Office of the Vice President for Research  
1994



**Washtenaw County Impervious Surfaces**



This classification scheme, provided by SEMCOG, for urban stream water quality potential is based on imperviousness (Schueler 1994). Impervious surfaces include roads, parking lots, rooftops, and other impermeable surfaces usually associated with urban landscapes.

Increases in impervious surfaces have negative effects on the hydrologic cycle. The impacts that may ensue include: increased flooding and stream bank erosion, greatly diminished water quality, degraded habitat, reduced groundwater recharge and reduced baseflow, and the addition of pollutant loads from stormwater runoff.

(Tom Schueler, The Importance of Imperviousness, Watershed Protection Techniques, Vol.1, No.3, Fall 1994.)

**KEY**

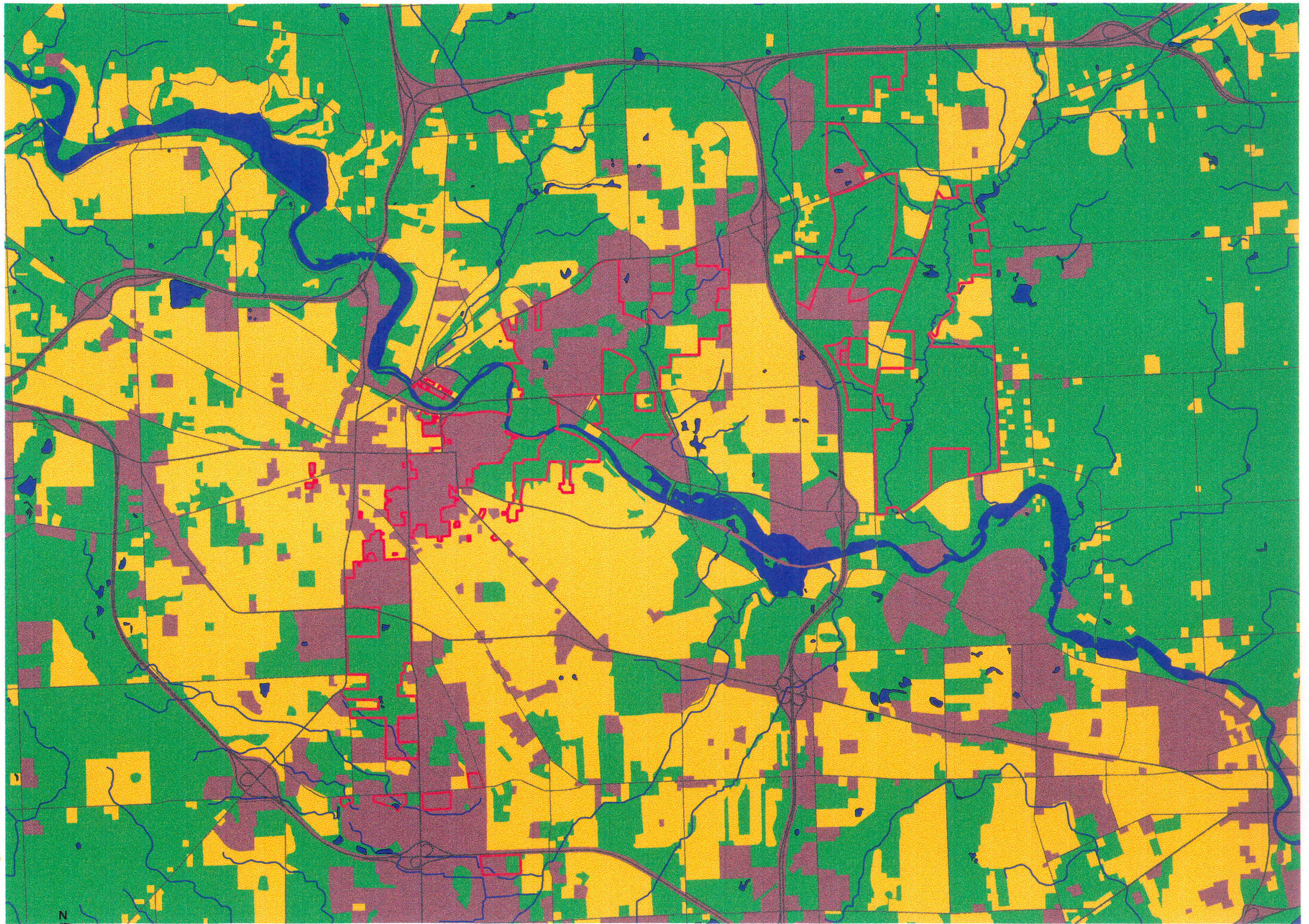
- Highways
- County Roads
- University Boundary
- Rivers/Streams
- Lakes/Rivers

**1995 Percent Impervious Cover**

- Low Impervious Area (0%-10%)  
Potentially sensitive streams
- Moderate Impervious Area (11%-25%)  
Potentially impacted streams
- High Impervious Area (26% or greater)  
Potentially severely impacted streams

**DRAINAGE AND IMPERVIOUS SURFACES**

University of Michigan Campus Plan, Phase I



3000 0 3000 6000 9000 FT

April 22, 1998

Cahill Associates

Andropogon Associates

Venturi, Scott Brown & Associates

Base Map Source: UM Facilities, Planning and Design  
Information Source: Southeastern Michigan Council of Governments