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W. S. Cogan
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North Campus Master Plan Executive Summary



University of Illinois at Urbana-Champaign

University of Illinois at Urbana-Champaign
North Campus Master Plan Executive Summary

Prepared for:
The Board of Trustees of the University of Illinois

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Thomas E. Everhart, Chancellor at Urbana-Champaign

Prepared by
Sasaki Associates, Inc., Watertown, Massachusetts

April 10, 1986



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FOREWORD

When this University ushered in its first 50 students in 1868, the campus was one second-hand building, situated on muddy ground just south of University Avenue. It served as classroom, dormitory, library and modest museum, all overseen by Regent John Milton Gregory and two professors.

More than a century later, we have returned to the location of our initial campus building with this Master Plan for the entire North Campus.

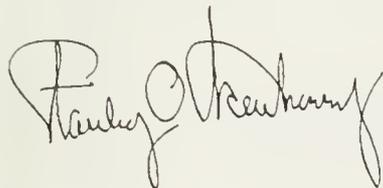
The Master Plan, adopted by the University of Illinois Board of Trustees on April 10, 1986, will guide the growth and development of the North Campus, home to the College of Engineering and other academic programs.

The phenomenal growth of engineering education and research at the University of Illinois over many years resulted in a largely unplanned development of the North Campus. A few classical buildings hold their own in this part of the campus against intrusive parking and service areas. The effect is a density and unpleasant ambience reminiscent of an industrial, rather than educational, neighborhood.

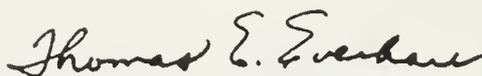
Sasaki Associates, Inc., designer of the Master Plan, has creatively extended the historic north-south axis of the Urbana-Champaign campus to the northernmost edge of the North Campus where it is anchored by the \$50-million Arnold O. and Mabel M. Beckman Institute for Advanced Science and Technology. A Beckman Quadrangle and a second Quad farther south into the engineering complex will open up and unify the North Campus. A series of open spaces, flanked by instructional and research buildings, will be the north extension of the campus's spine.

Master plans, as other visionary schemes, are subject to the tugs and pushes of changing requirements and resources. This plan, as its predecessors, is not a blueprint but a dream toward which we will work.

The North Campus Master Plan boldly reaches for the future while honoring our past. The challenge is to translate this vision into reality.



Stanley O. Ikenberry
President
University of Illinois



Thomas E. Everhart
Chancellor
Urbana-Champaign Campus

North Campus Master Plan

EXECUTIVE SUMMARY

Intent

Over the next 20 years, the North Campus of the University of Illinois at Urbana-Champaign will undergo a building expansion totaling approximately 1.4 million gross square feet. With 1.7 million gross square feet of University buildings currently located on the North Campus, this new building program marks a significant development for the University and the Urbana-Champaign community.

This Master Plan has been developed to serve as a guide for the anticipated expansion by defining building locations, circulation patterns, parking areas, open spaces, and landscaping approaches. The goal of the Master Plan is to create a setting that reflects the stature of the University and the importance of the new buildings to be built on the North Campus. The Master Plan attempts to do this by establishing an open space system around which new and existing buildings are located, thus extending the successful pattern that now exists on the main and south quadrangles.

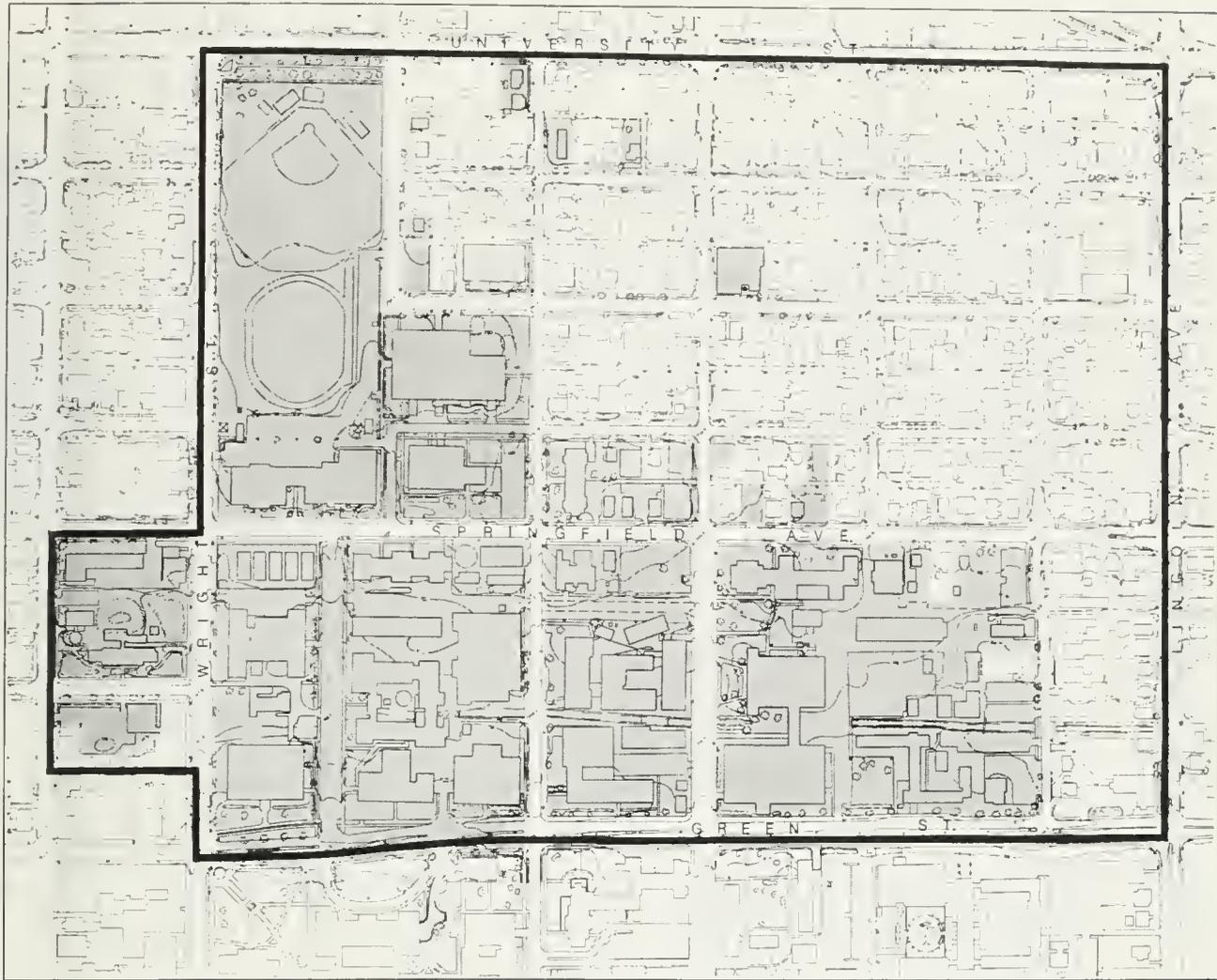
North Campus Today

The North Campus study area is located north of Green Street, east of Wright Street, south of University Avenue, and west of Lincoln Avenue. Within this area, the University owns approximately 65 that are occupied almost entirely by the College of Engineering. Serving approximately 7,000 students, the North Campus area in itself is comparable to a medium-sized American university.

The North Campus offers a wide variety of physical conditions. A series of classic buildings, including Engineering Hall and the Metallurgy and Mining Building, line Green Street and are consistent in scale and historical context with campus buildings south of Green Street. Behind this unified front, an enormous range of building sizes, shapes, and ages reflects the disparate functions of the engineering world.

North of Green Street, a sense of congestion prevails due to the density of development and considerable pavement for parking and service. This sense of congestion diminishes north of Springfield Avenue with the open expanse of Illinois Field.

Along the southern edge of the North Campus, Green Street remains a physical divider and psychological barrier from the adjacent academic community. Wright Street on the west and University Avenue on the north constitute clearly defined edges between the North Campus and the local residential and commercial community. The east edge is less well defined.



Proposed Development

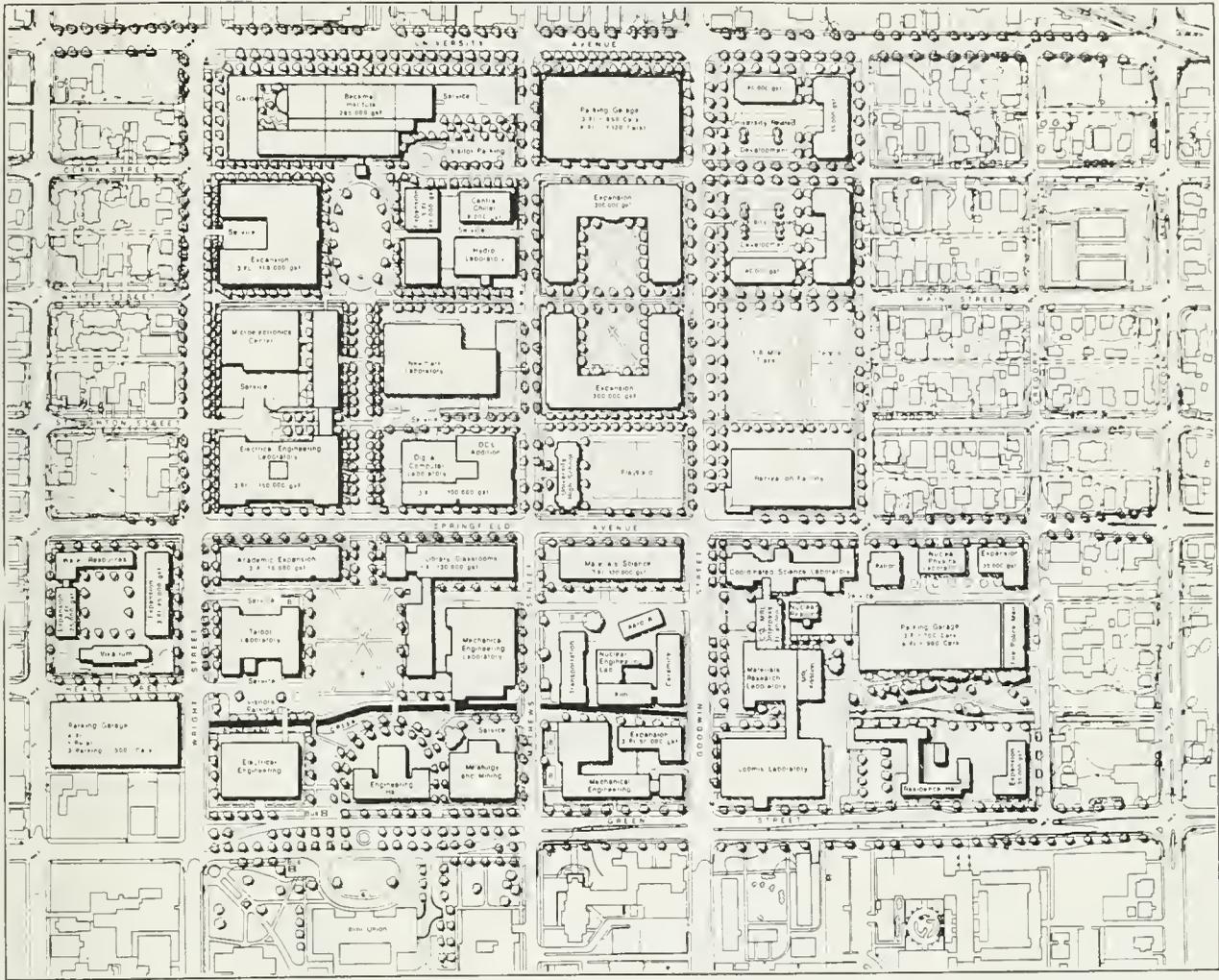
Developments planned for the North Campus between now and the year 2000 are significant. The most immediate and dramatic venture is the Arnold O. and Mabel M. Beckman Institute for Advanced Science and Technology (Beckman Institute) which will be located at the southeast corner of University Avenue and Wright Street. The Beckman Institute will be the focus of world-caliber advanced technological research, a resource that will strengthen the University's linkage with the international scientific and engineering research communities. The Beckman Institute, together with the Compound Semiconductor Microelectronics Center (Microelectronics Center), the addition to the Digital Computer Laboratory, and associated site and utility improvements, constitute roughly 470,000 gsf of funded facilities that will be constructed on the North Campus within the next two to three years. These projects will set the tone and character of the North Campus area between Springfield and University Avenues.

Approximately 1.4 million gsf of new academic, research and support space will be built on the North Campus by the year 2000, an 80 percent increase over the current amount. At the same time, approximately 300,000 gross square feet of existing building area will be removed because of obsolescence or because the space occupies land considered critical for other purposes. Recognizing the dynamics of technological research, the Master Plan allows for flexibility in growth and change.

Objectives of the Master Plan

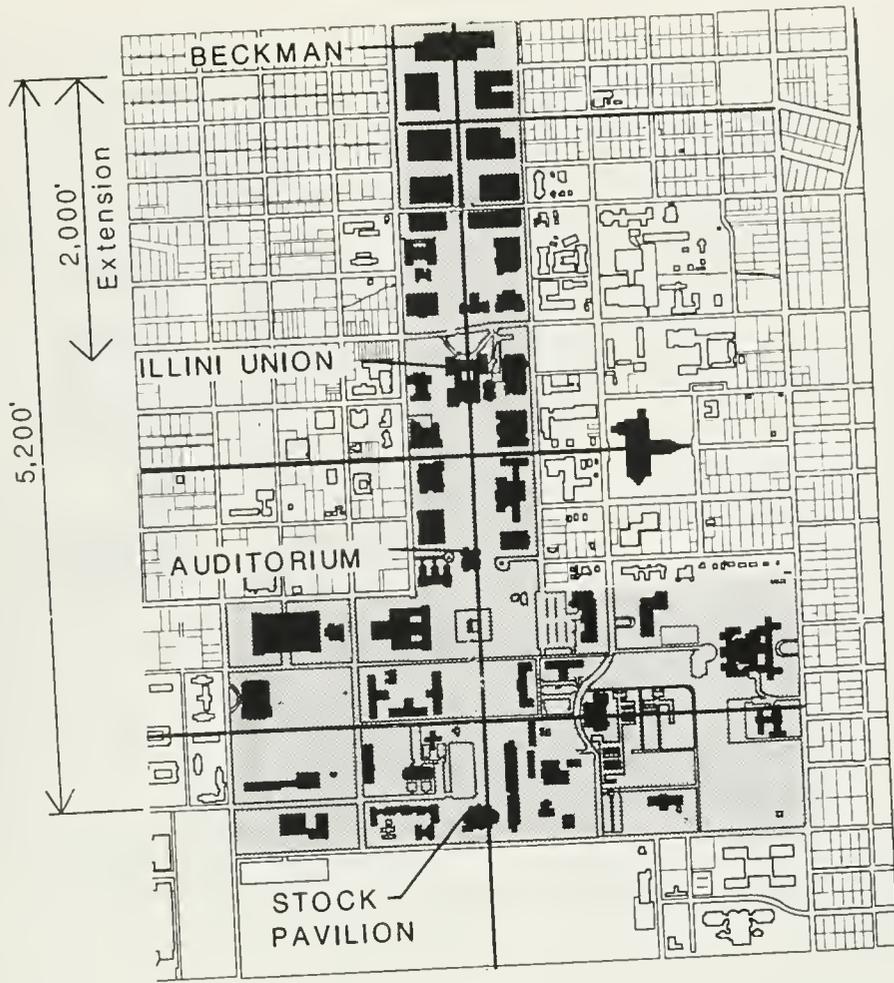
Objectives of the North Campus Master Plan are listed below. The plan encompasses several specific proposals to accomplish these objectives.

- . Create a clear image and high-quality ambience for the North Campus reflective of the quality of its academic programs. Issues of scale, density, arrival, orientation, architectural design, and landscaping will be addressed.
- . Improve visual and physical ties to the central campus, and resolve the Green Street and Springfield Avenue "barriers."
- . Develop spatial patterns that respond to the differing needs of teaching and research.
- . Recognize and maintain a strong relationship between the campus structure and the existing urban fabric of streets, uses, and infrastructure.
- . Promote interaction of disciplines, recognizing the value of open spaces, bridges, and walkways.
- . Develop a flexible plan that responds to the dynamic growth characteristics of scientific research facilities which can be phased.

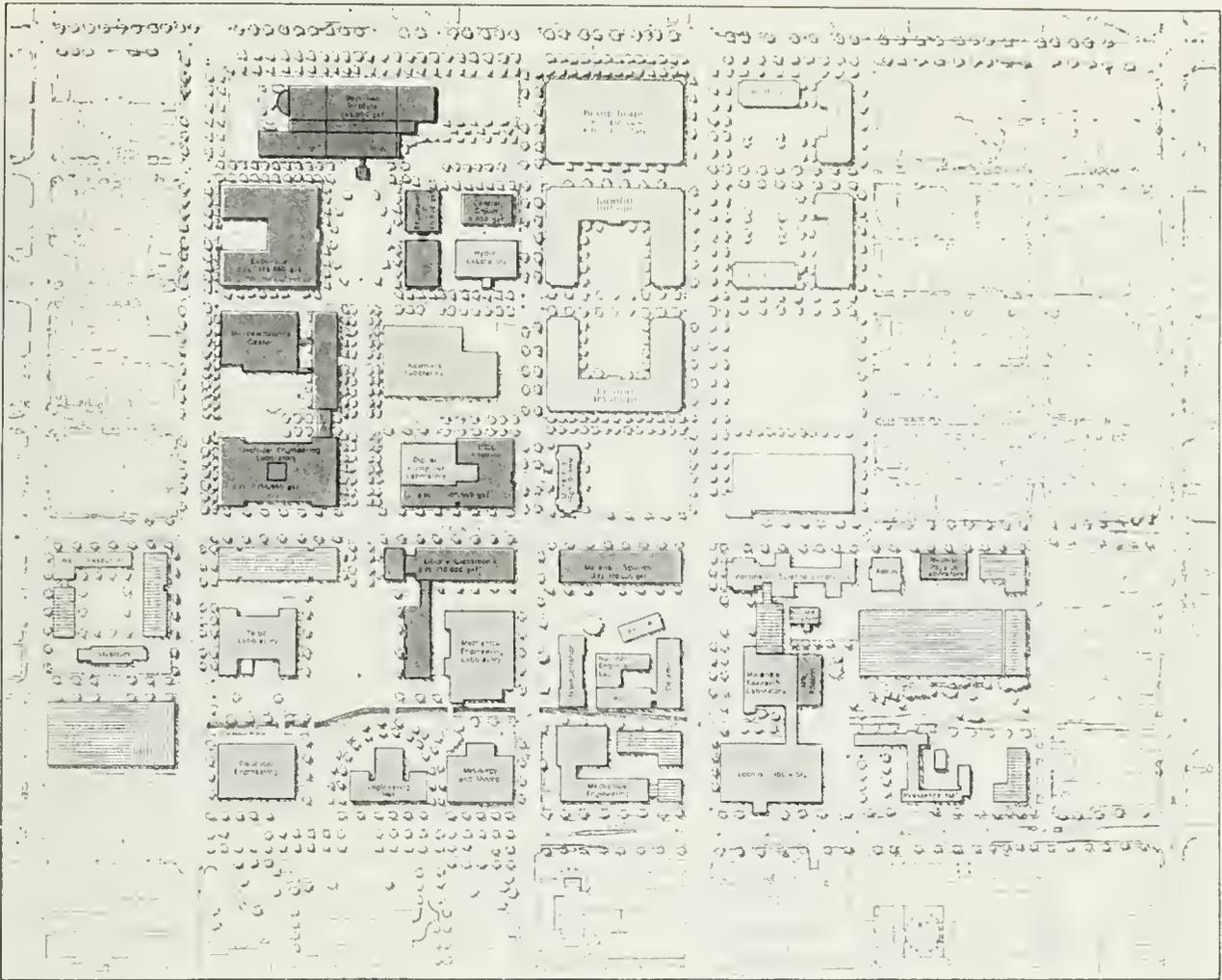


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ILLUSTRATIVE MASTER PLAN



PROPOSED EXTENSION OF
THE CENTRAL AXIS



PROGRAM ACCOMMODATION

	Existing buildings to remain	1,400,000 GSF
	Year 2000 program	1,355,000 GSF
	Long range program on existing University land	800,000 GSF
	Long range program on land to be acquired	300,000 GSF
		<hr/>
		3,895,000 GSF

Develop a parking plan that does not detract from the pedestrian and visual experience of the campus.

Recognize the inherent "industrial" character of engineering facilities and service areas.

Develop a realistic plan regarding building demolition and property acquisition.

Proposed Organization of the North Campus

The North Campus Master Plan reflects seven principal organizing ideas:

Building on the historical organizational framework of the entire campus, the main axis that now extends from the Foellinger Auditorium south to the Stock Pavilion and north through the quadrangle to the Illini Union will be extended through the North Campus to the Beckman Institute site. A new series of open spaces will be created along the axis, with the Beckman Institute becoming the northern terminus.

A new quadrangle north of Engineering Hall and east of Talbot Laboratory will be created when the Aeronautical Laboratory B Electrical Engineering Research Laboratory, Electrical Engineering Annex and Burrill Avenue are removed. The new quadrangle will become the focal point of the academic and instructional core between Springfield Avenue and Green Street, and contain facilities such as the engineering library and classroom building.

Land use will be based on patterns of instructional and research functions. The core area, including the undergraduate teaching complex, will be partially enclosed by areas of research activities. The teaching core will be centered within the area defined by Green Street, Springfield Avenue, Wright Street and Mathews Avenue, near the instructional area of the central campus. Computing and systems research will be clustered north of Springfield Avenue; materials and design research will be clustered east of Mathews Avenue; and advanced multidisciplinary research will be clustered north, along University Avenue.

The "Beckman Quadrangle" will be created south of the Beckman Institute, becoming the focal point of the research complex between Springfield and University Avenues, and flanked eventually by associated research facilities.

The two new quadrangles will be joined along the central axis by a landscaped mall flanked by the new Microelectronics Center on the west and the Newmark Civil Engineering Laboratory and Digital Computer Laboratory on the east. New engineering laboratories eventually will be located on the Kenney Gymnasium site.

- . The planting and setback lines of "Presidents' Walk" on University Avenue will be repeated along the campus side of Wright Street, recognizing the future importance of that street as a visual and pedestrian route between the North Campus and the central campus and as a "gateway" into the North Campus.
- . Most surface parking will be removed, and a system of landscaped open spaces, pedestrian routes and bicycle routes will be established. Parking structures are planned, and are critical from an aesthetic standpoint, as well as being a reflection of land value in a campus setting.

Land Acquisition

To accommodate the program in a coherent and gracious manner, land acquisitions will have to be made on a phased basis. The most immediate land needs are east to Mathews Avenue for the Beckman Institute and the satellite chilled water/electrical distribution plant. By the year 2000, the area east of Mathews Street to Goodwin Avenue will have to be acquired to locate research, parking, and support activities there. Replacement of athletic fields and indoor recreation space for the Kenney Gymnasium can be accommodated west of Harvey Street, between Springfield Avenue and Main Street. Ultimately, acquisitions should be consolidated east to Harvey Street and north to University Avenue to accommodate long-term growth of research and support facilities. Future development eastward should remain compatible with adjacent community uses.

On April 10, 1986, the Board of Trustees of the University of Illinois approved the North Campus Master Plan as a general guideline for the long-term growth and development of the North Campus.







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