



CFAES

2021 Master Plan

EXECUTIVE SUMMARY



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES



Purpose

A master plan aligns the physical campus environment with the mission and vision of an institution. The Ohio State University College of Food, Agricultural, and Environmental Sciences (CFAES) has a succinct mission statement – *we sustain life* – that unites a community of individuals pursuing an extraordinarily diverse range of inquiry. The college’s natural resources, landholdings, and facilities are equally diverse, and they simultaneously support teaching, research, and extension. The CFAES Master Plan includes themes and planning principles that guide decision making for all facilities on its three campuses: Columbus, Wooster, and statewide. The process explored the Waterman Agricultural and Natural Resources Laboratory, the Columbus Midwest campus, and the CFAES Wooster campus experiences in more detail, holistically addressing these campus environments, and engaged hundreds of individuals from the college community. As a result, the plan illustrates a shared vision for the future and provides a road map for implementation.

Facilities Planning Principles

Planning principles communicate shared values and guide decision making. The CFAES planning principles apply to facilities across the state. They were used to guide development of the master plan, and they will continue to influence future facilities decisions that the plan does not directly address.

1. Support the diversity and breadth of the college's endeavors by investing to create space that is consistently high quality, utilized well, and appropriate for the activity.
2. Act as one college with three campuses: Columbus, Wooster, and statewide.
3. Prioritize opportunities to advance and showcase innovative teaching, research, and extension activities; interdepartmental and interdisciplinary collaboration; and experiential learning ethos.
4. Create inspiring and functional places that:
 - build community and encourage collaboration,
 - are easy to access and navigate,
 - promote engagement while maintaining secure environments,
 - support world class scholarship, and
 - demonstrate leadership in sustainability.

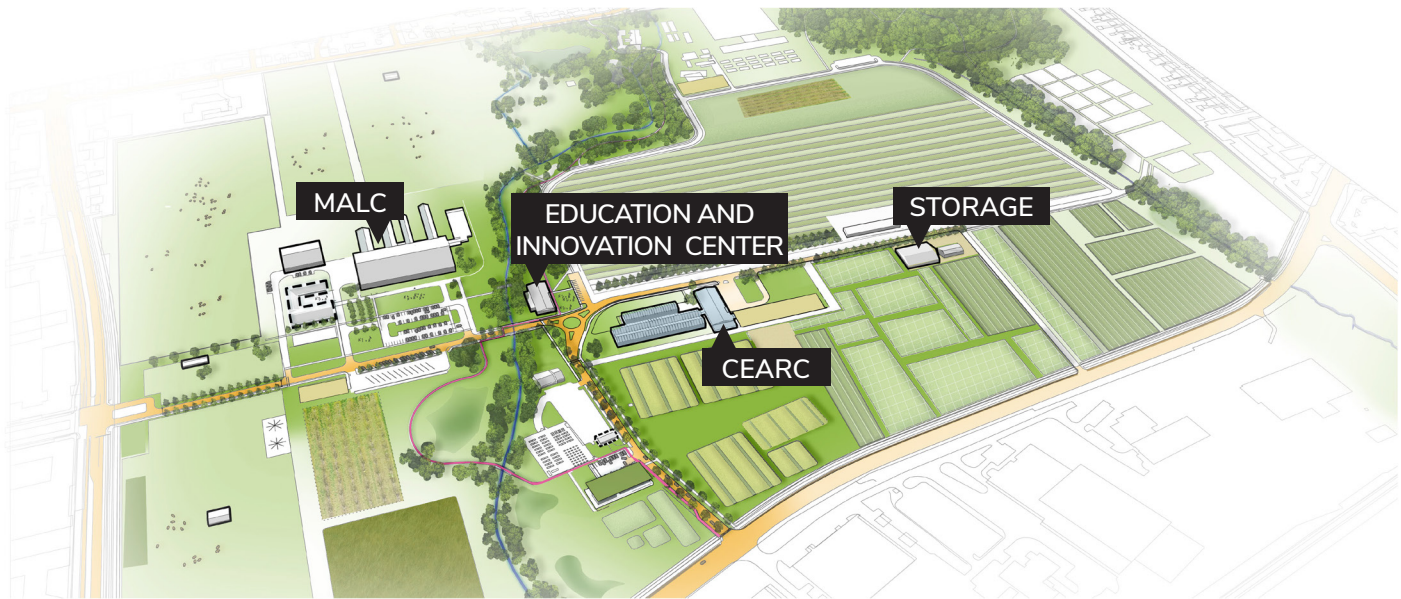
Waterman Agricultural and Natural Resources Laboratory

CFAES' facilities planning principles articulate the priority that the college and the master plan place on investing in facilities to support and showcase programs that are innovative, interdepartmental and interdisciplinary, and that emphasize experiential learning. The Waterman Agricultural and Natural Resources Laboratory is the college's preeminent opportunity in this area, and taking the next steps in its transformation into a university hub for innovative science and public engagement is a leading priority of the master plan.

Waterman serves as a core for teaching, research, and community engagement and a university hub for leading innovative science and public engagement in the food, agricultural, and environmental sciences. Across Lane Avenue from the West Campus Innovation District, its myriad ecosystems, facilities, and programs contribute to the university's comprehensive focus on understanding and solving seemingly insurmountable problems – from food security to cancer to climate change. It's where thinkers and doers from Ohio State, private industry, and the surrounding communities work together to find pragmatic solutions that fuel a more optimistic future and improve people's lives. Waterman is where many partners advance knowledge and industry, communicate science, and prepare future leaders. Along with the West Campus Innovation District, the Wilma H. Schiermeier Olentangy River Wetland Research Park (ORWRP), and the Chadwick Arboretum, Waterman is a key component of the Columbus-based CFAES system supporting work on the grand challenges.

The master plan establishes a land use framework with stream corridors and Carmack Road as the major, fixed organizing elements and land use zones for plot-based research, garden-based programs, crop production, and pastures. Each of these zones accommodates associated built facilities and support infrastructure, and they are carefully planned so that each zone has the appropriate elements and levels of public engagement. Those publicly facing elements are all oriented around Carmack Road, creating a vibrant and connected hub where the full breadth of the work of the college comes together.

The land use framework is intended as a guide. Some aspects are consistent with the layout and operation of the site today, while others represent considerable change. Continuity of research activity from the beginning of a project to its completion is critical, and all changes will need to plan for relocation of current functions or to allow them to remain in place for the duration of their term where relocation is not feasible.



WATERMAN AERIAL ILLUSTRATION

Waterman Proposed Projects

NEAR TERM (0-5 YEARS)

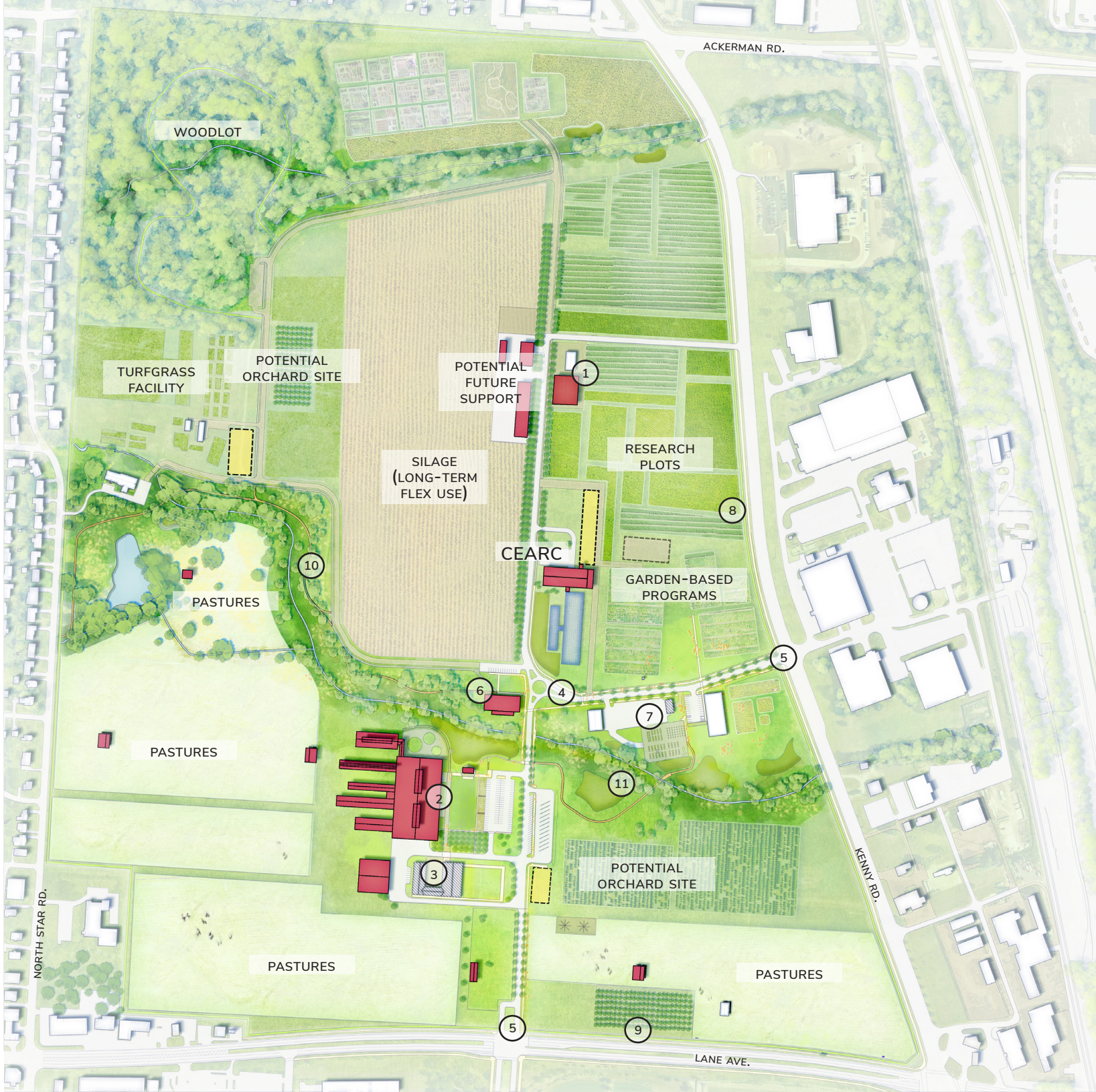
- 1 Chemical Storage and Handling Facility centrally located within the area planned for research plots
- 2 Multispecies Animal Learning Center and associated pastures along Lane Avenue, bringing together teaching and extension activities for the equine, swine, poultry, beef, and small ruminant operations adjacent to the Waterman Dairy
- 3 Waterman Dairy improvements to transition to new technologies including a robotic milking system, feeding robot, and manure scraping robot
- 4 Carmack Road and interior path improvements to promote pedestrian safety through the hub area
- 5 Gateway signage along Lane Avenue and Kenny Road to clarify entry and arrival and increase awareness of the work taking place at Waterman
- 6 Education and Innovation center facility serving as a destination for student and public engagement and incorporating demonstration research space, meeting rooms, and visitor amenities
- 7 Enhancements to the area designated for garden-based programs including reconfiguration of community gardens, associated landscape and fencing improvements, and potential renovation of the White Building for storage
- 8 Multi-use path and fencing along Kenny Road, in collaboration with the university and the City of Columbus

MID TERM (5-10 YEARS)

- 9 Multi-use path and fencing along Lane Avenue including sidewalks and plantings along the northern side of the street
- 10 Multi-use trail through the southern stream corridor, connecting North Star Road to the west to Carmack Road to the east, including stream crossings and interpretive signage along the trail
- 11 Enhancements to the southern stream corridor to research and demonstrate best practices related to the adjacencies of natural resources and agricultural land uses, including stormwater management strategies incorporating wetlands
 - Three season pavilion (location to be determined) providing event space, storage, and other support infrastructure for outdoor gatherings associated with the garden-based program area

LONG TERM (MORE THAN 10 YEARS)

The CFAES Master Plan illustrates opportunities to improve vehicular circulation north of the Controlled Environment Agriculture Research Complex (CEARC) and formalize access to the woodlot, both through vehicular access and trail improvements. Potential future building projects include further expansion of the CEARC and buildout of sites in the central hub and adjacent to the turfgrass facility for flex uses to be determined.



WATERMAN ILLUSTRATIVE PLAN

KEY

Existing Building

New Building

Future New Building Opportunity

Renovation

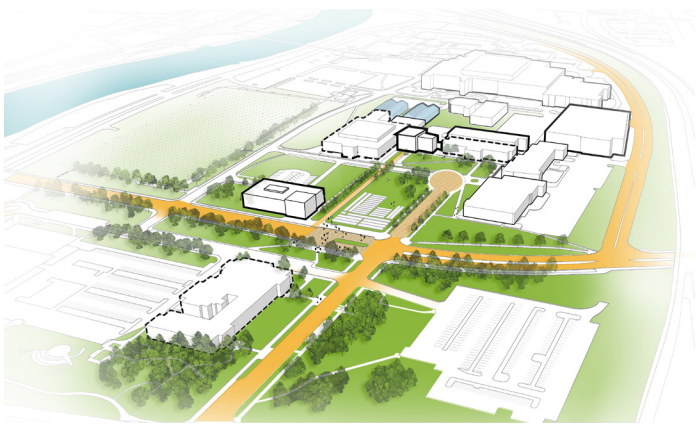
New Greenhouse

Potential Stormwater Management

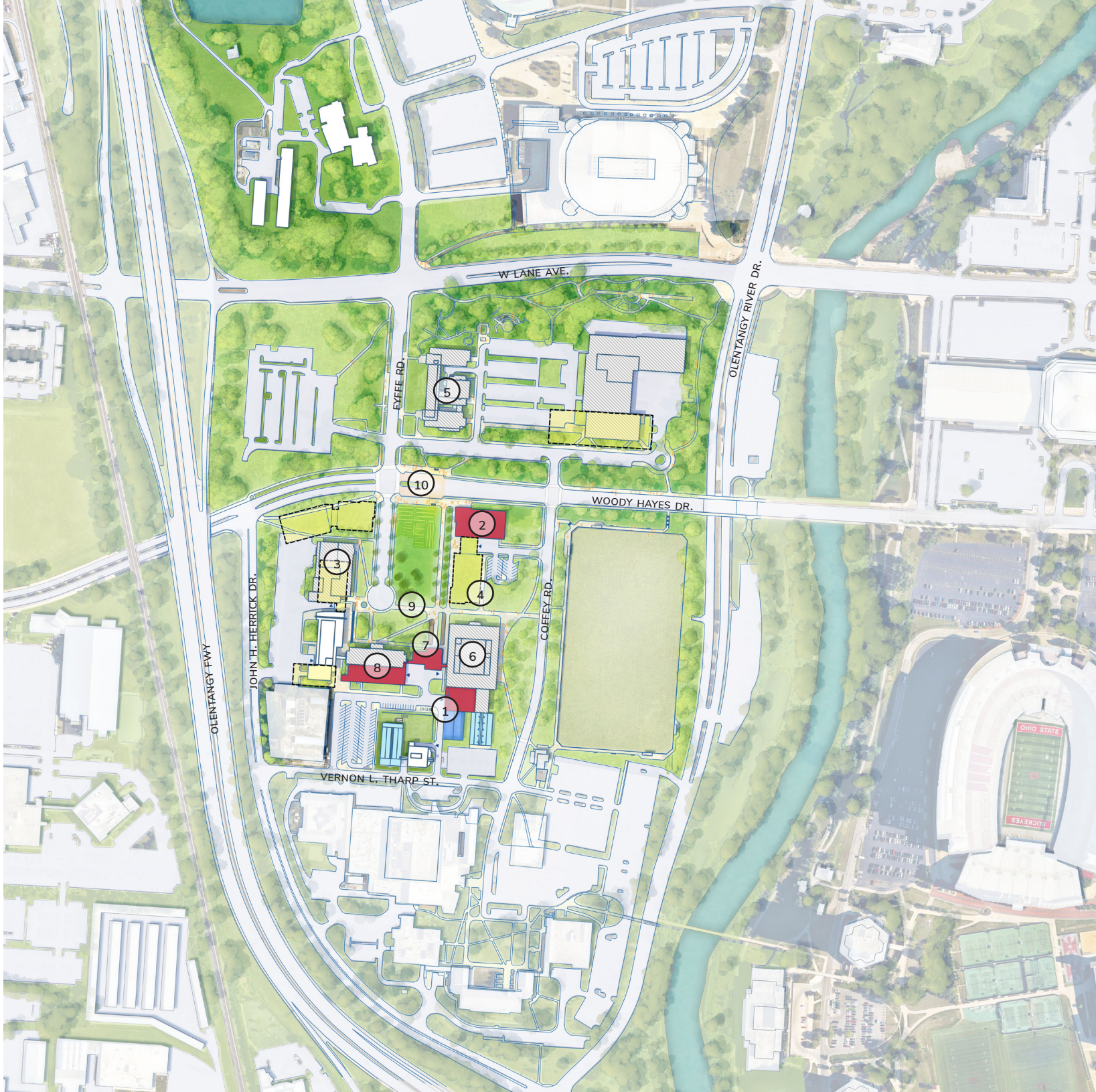
Columbus Midwest Campus

The Columbus Midwest campus is often perceived as a peripheral area of the core campus. However, as the university continues to grow and develop, and particularly as it builds out the West Campus Innovation District, the environment surrounding CFAES’ facilities is maturing and urbanizing.

The CFAES Master Plan envisions the Midwest campus renewed and activated to nurture and showcase the college community in concert with broader university development initiatives. This includes renovation and demolition of buildings in poor condition and the creation of new collaboration space and other amenities. It also includes continued investment in distinctive landscape experiences.



MIDWEST CAMPUS AERIAL ILLUSTRATION



MIDWEST CAMPUS ILLUSTRATIVE PLAN

Proposed Projects

Each individual investment proposed as part of the master plan is considered holistically and contributes to the larger vision for campus.

NEAR TERM (0-5 YEARS)

- ① **Kottman addition** of two stories plus a greenhouse, which together replace those functional aspects of the Howlett Greenhouses that must be maintained at the Midwest campus while also expanding the college’s laboratory and office capacity
- ② **New Interdepartmental Building on Woody Hayes Drive** which meets identified need for laboratories and classrooms, replaces space in Plumb Hall so it can be removed, and adds activity in a highly visible location
- ③ **Targeted renovations and moves in the Animal Sciences Building** to vacate space used by Animal Sciences as well as general purpose space remaining in Plumb Hall

MID TERM (5-10 YEARS)

- ④ **Plumb Hall demolition**
- ⑤ **Additional renovations in the Agricultural Administration Building** to address the ground floor, western wing of the second floor, and the third floor, which have not been recently upgraded
- ⑥ **Kottman Hall renovation** to comprehensively address deferred maintenance, add collaboration and social spaces, and provide more widespread access to natural light

- ⑦ **Howlett-Kottman connector addition** to enhance connectivity between buildings, create a hub of new collaboration and gathering space, and conceal service and loading
- ⑧ **Howlett Hall addition and renovation** to address deferred maintenance issues and expand laboratory capacity
- ⑨ **Quad landscape enhancements** to create more active community spaces and improve pedestrian safety while showcasing unique programs like the cultivar trials
- ⑩ **Woody Hayes Drive improvements** including enhanced sidewalks and plantings that connect to the Chadwick Arboretum

LONG TERM (MORE THAN 10 YEARS)

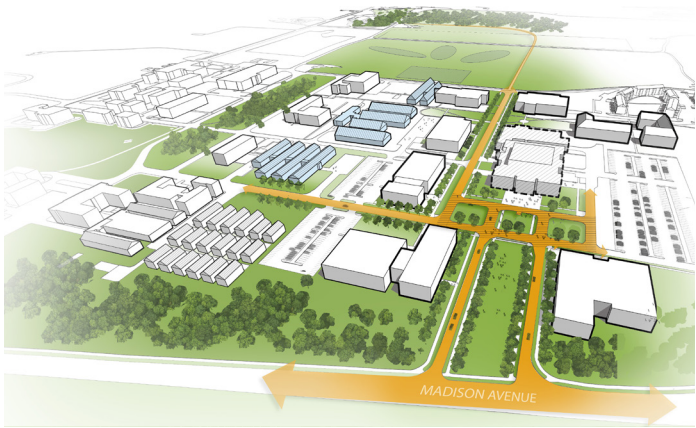
The Midwest campus has capacity for new buildings and additions that would increase the capacity of this area beyond what is indicated by the current space needs assessment. These are long-term opportunities for needs that may not be anticipated today. They include new building sites such as the site of the demolished Plumb Hall, a replacement of the Animal Sciences Building, and/or a second new CFAES Interdepartmental Building on Woody Hayes Drive. There are also opportunities for potential building additions to Parker and the Agricultural Engineering Building and the potential for additional landscape enhancements to the parking lot north of Woody Hayes Drive.

- KEY
- Existing Building
 - New Building
 - Future New Building Opportunity
 - Renovation

CFAES Wooster Campus

The CFAES Wooster campus consists of three primary landholdings: central campus, Grace Drake Agricultural Laboratory, and Fredericksburg Road. Together with several other further outlying and smaller properties that have been added incrementally over time, the college controls more than 4,000 acres. The Wooster campus unites two formerly separate institutions: Ohio Agricultural Research and Development Center (OARDC) and the Agricultural Technical Institute (ATI).

In the one college spirit, the master plan envisions a vibrant, singular heart of campus, supported by surrounding landholdings with clearly defined and streamlined programmatic uses.



WOOSTER CAMPUS AERIAL ILLUSTRATION



WOOSTER CAMPUS ILLUSTRATIVE PLAN

Proposed Projects

Each individual investment proposed as part of the master plan is considered holistically and contributes to the larger vision for campus.

NEAR TERM (0-5 YEARS)

- 1 **Renovation of the Fisher Auditorium Building** to refresh event space and provide a mix of uses that may include new classrooms, library and study, dining, and collaboration space to serve the entire Wooster community
- 2 **Traditional residence hall** to house approximately 260 students, freeing up capacity in the existing townhouses for graduate student housing
- 3 **Bike trails** to connect to various locations on campus and in the Wooster area, alongside the creation of a bike repair hub near Secrest Arboretum
- 4 **Pedestrian path enhancements** in the core of campus to promote safety, connectivity, and a vibrant heart of campus
- 5 **Turfgrass teaching amenities** (e.g. golf holes and/or soccer pitch, etc.) to also serve as a recreational resource for the college community

MID TERM (5-10 YEARS)

- 6 **New heart of the campus** to include dining, recreation, social, and other amenity space serving the entire campus community
- 7 **New interdepartmental academic building** to replace poor condition and outdated facilities with modern teaching, research, and extension environments
- 8 **Greenhouse replacement** for poor condition greenhouses west of Gerlaugh Road by expanding the Williams Greenhouse complex with new greenhouses to be served by an expanded headhouse and infrastructure
 - **Demolition of poor condition and underutilized buildings, ag facilities, and greenhouses**, including Thorne, Japanese Beetle, Halterman, Skou, and other facilities to be identified in the future

LONG TERM (MORE THAN 10 YEARS)

The master plan represents a potential full buildout of the campus and identifies long-term opportunities for further animal facility consolidation and modernization (swine, poultry), building renovations, additional turfgrass teaching amenities (e.g. golf holes and/or soccer pitch, etc.) to also serve as a recreational resource for the college community, and buildout of future flex sites.

KEY

- | | |
|---------------------------------|---------------------|
| Existing Building | Renovation |
| New Building | Existing Greenhouse |
| Future New Building Opportunity | Proposed Greenhouse |



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