



# UNIVERSITY OF NORTH CAROLINA AT PEMBROKE

## MASTER PLAN 2004-2016

**Dewberry & Davis, Inc.**  
A Dewberry Company

**BONEY**

**HDR**



31 JULY 2004





# UNIVERSITY OF NORTH CAROLINA AT PEMBROKE

## MASTER PLAN 2004-2016

### Planning Process

The Design Team met over several months in the Spring of 2004 with the planning committee. This committee included representatives of the Board of Trustees, the university administration, the university planning and construction department, academic departments, the athletics department, and the student body.

As a planning exercise, participants were asked to document their experience on campus with photographs. These photographs became a central part of discussions related to campus improvement.

Academic departments were interviewed individually and their growth projections, as documented by the University strategic planner, were incorporated into the Master Plan.

Key issues for the resulting Master Plan include "greening" of the campus and its surroundings; improvement of pedestrian access; movement of automobiles towards the campus perimeter; academic and athletic expansion; and land acquisition.

### Design Team

Professional members of the Design Team, in addition to University participants, included:

**Charles H. Boney, Jr., AIA** Boney Architects/Wilmington

**Mark Sealy, AIA** Boney Architects/Charlotte

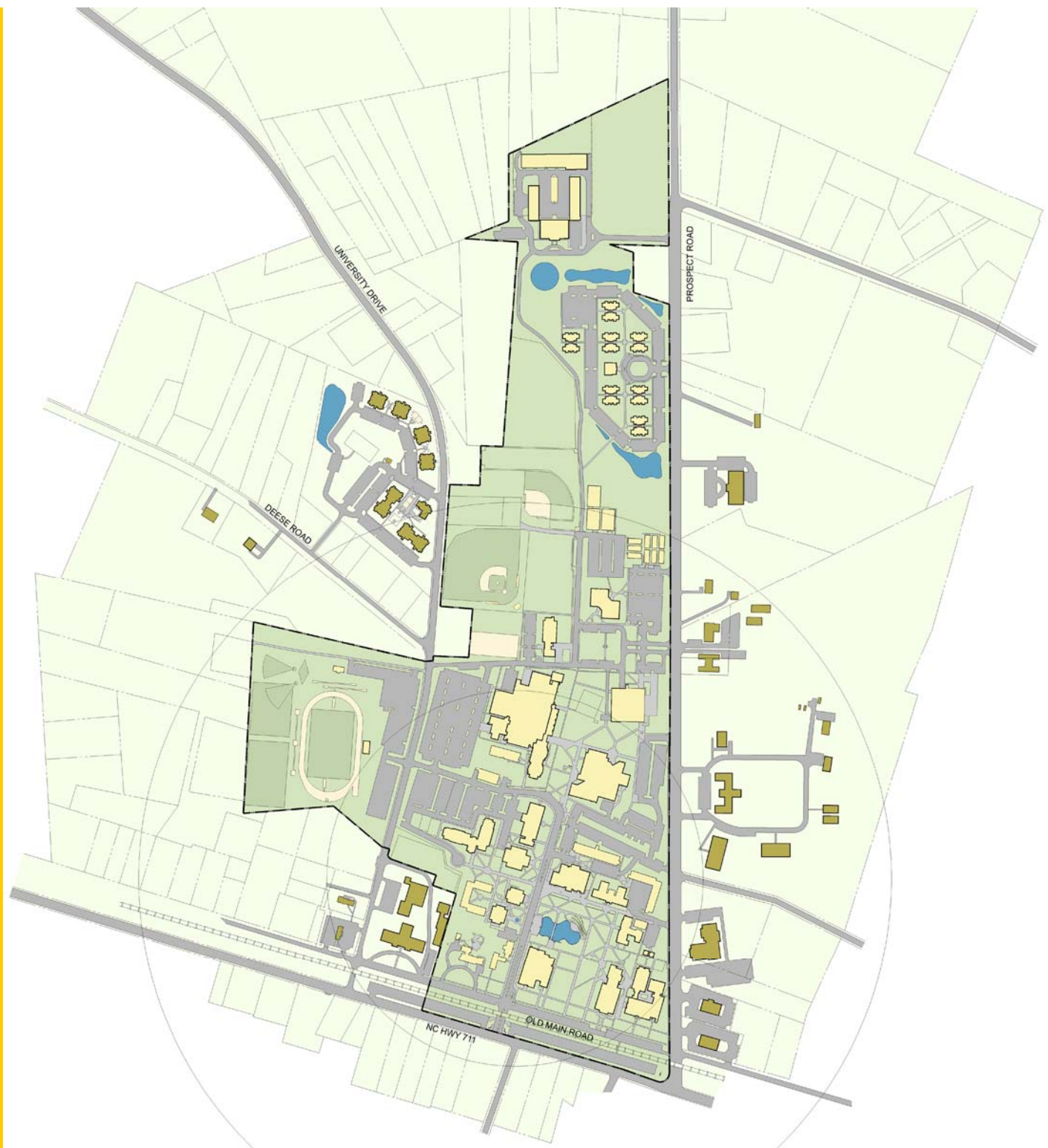
**James Williams, ASLA** HDR Planning/Charlotte

**Cash Davidson, PE** Dewberry & Davis/Raleigh

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**HDR**





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### LEGEND



**PRIMARY ENTRANCE**



**SECONDARY ENTRANCE**



**PEDESTRIAN SPINE**



**ENTRY NODE**

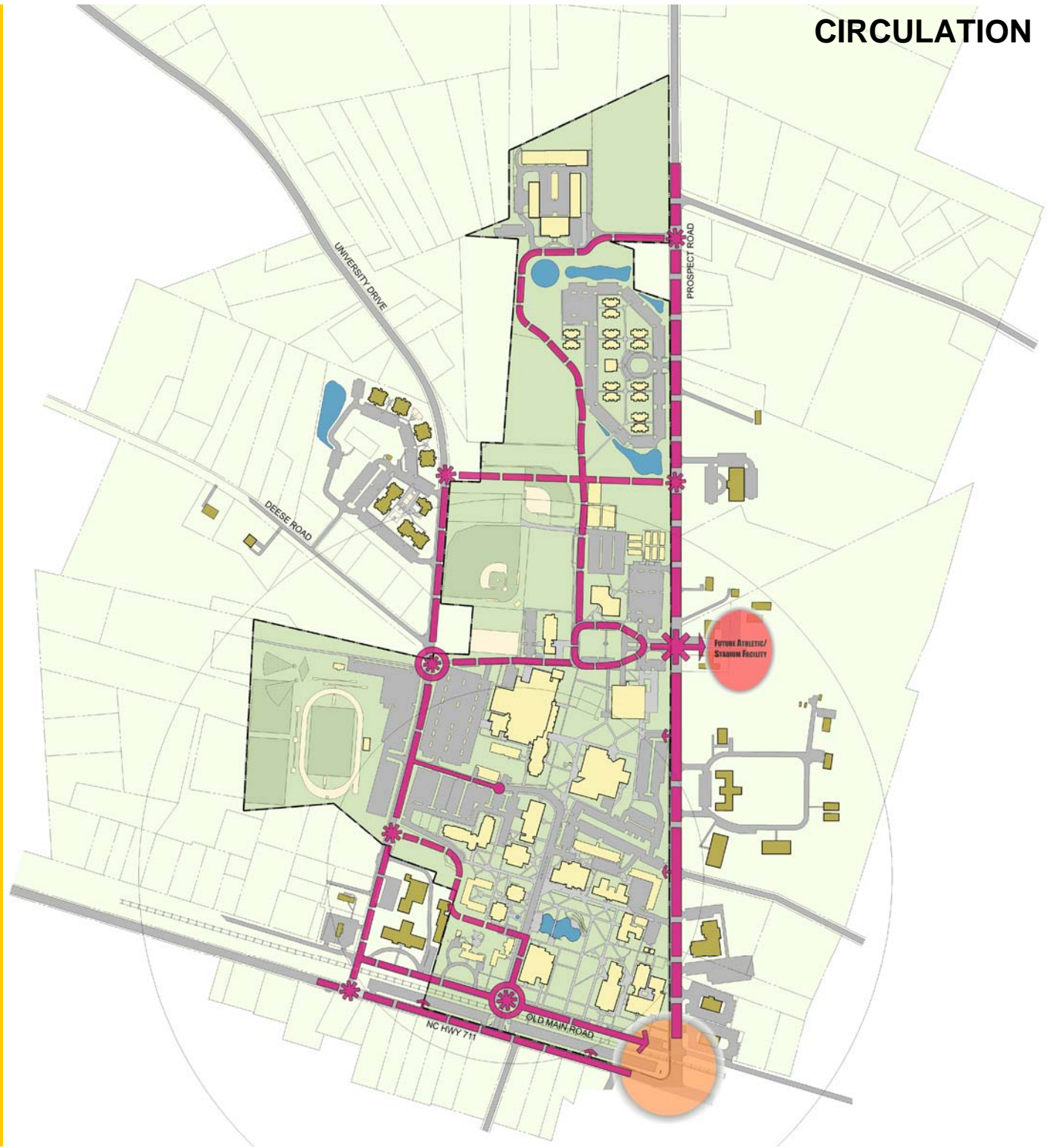


**MAJOR ACCESS**



**MINOR ACCESS**

## CIRCULATION





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**LEGEND**



**PRIMARY ENTRANCE**



**SECONDARY ENTRANCE**



**PEDESTRIAN SPINE**



**ENTRY NODE**

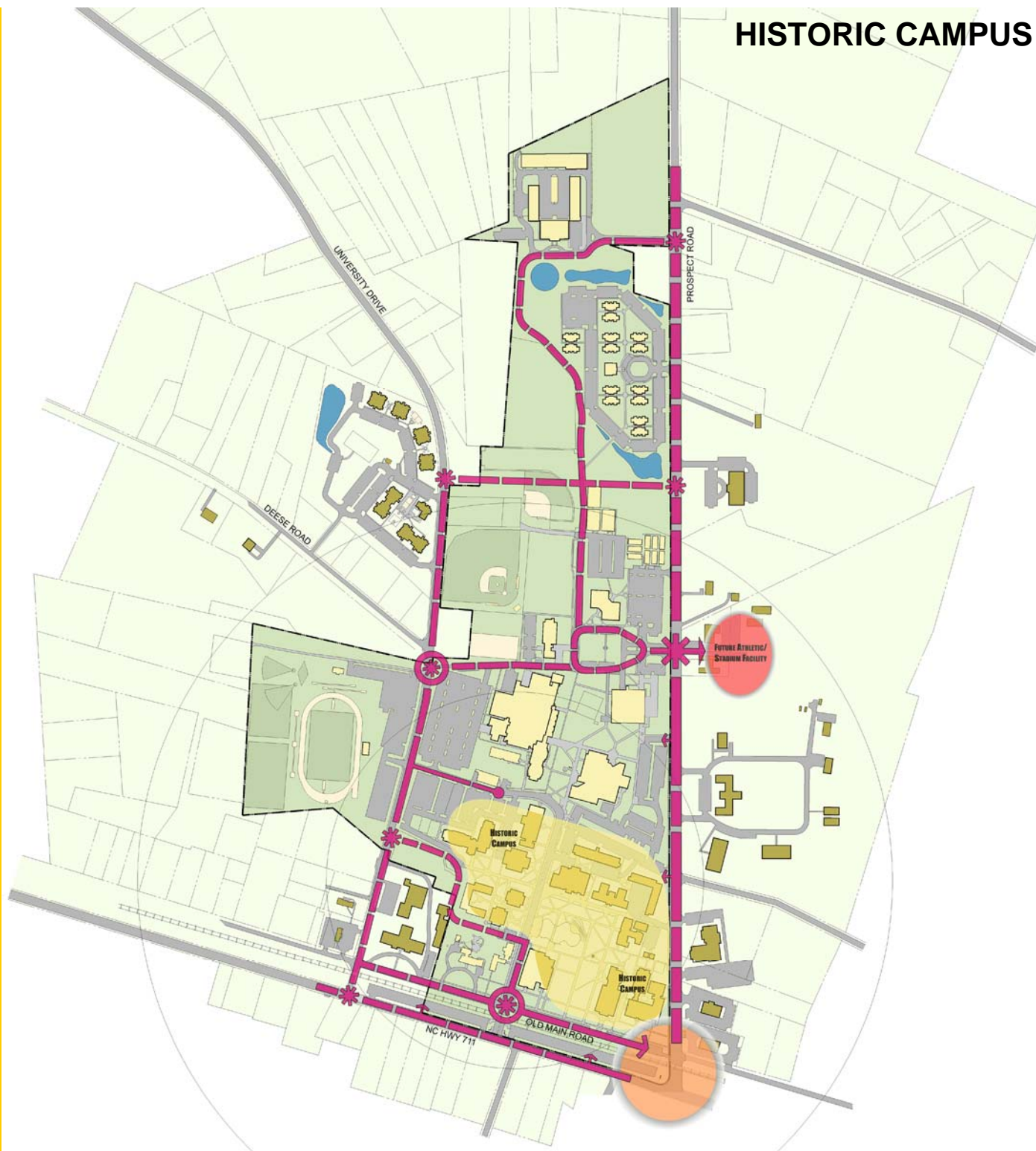


**MAJOR ACCESS**



**MINOR ACCESS**

**HISTORIC CAMPUS**





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### LEGEND



PRIMARY ENTRANCE



SECONDARY ENTRANCE



PEDESTRIAN SPINE



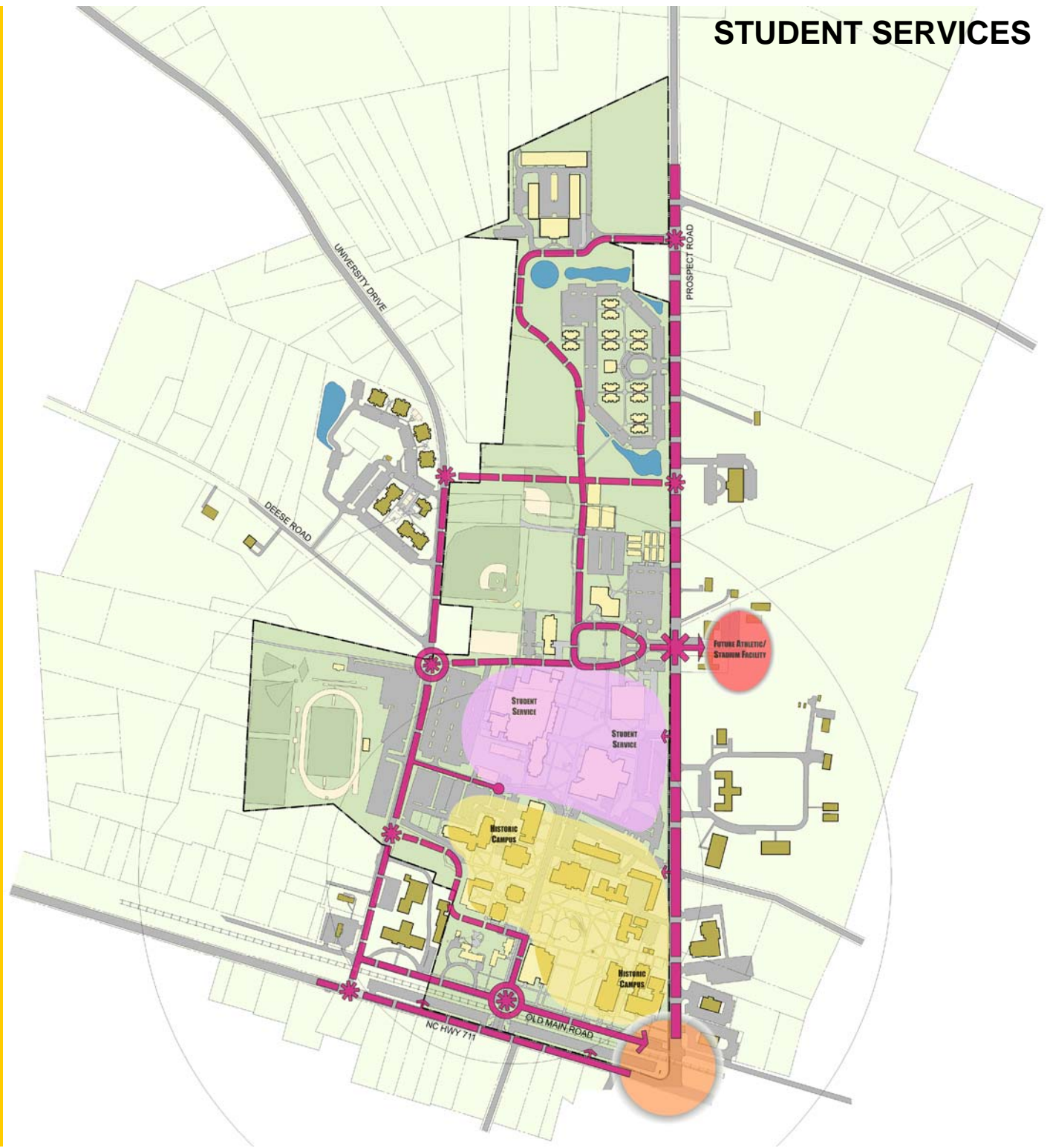
ENTRY NODE



MAJOR ACCESS



MINOR ACCESS



## STUDENT SERVICES



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**LEGEND**



**PRIMARY ENTRANCE**



**SECONDARY ENTRANCE**



**PEDESTRIAN SPINE**



**ENTRY NODE**

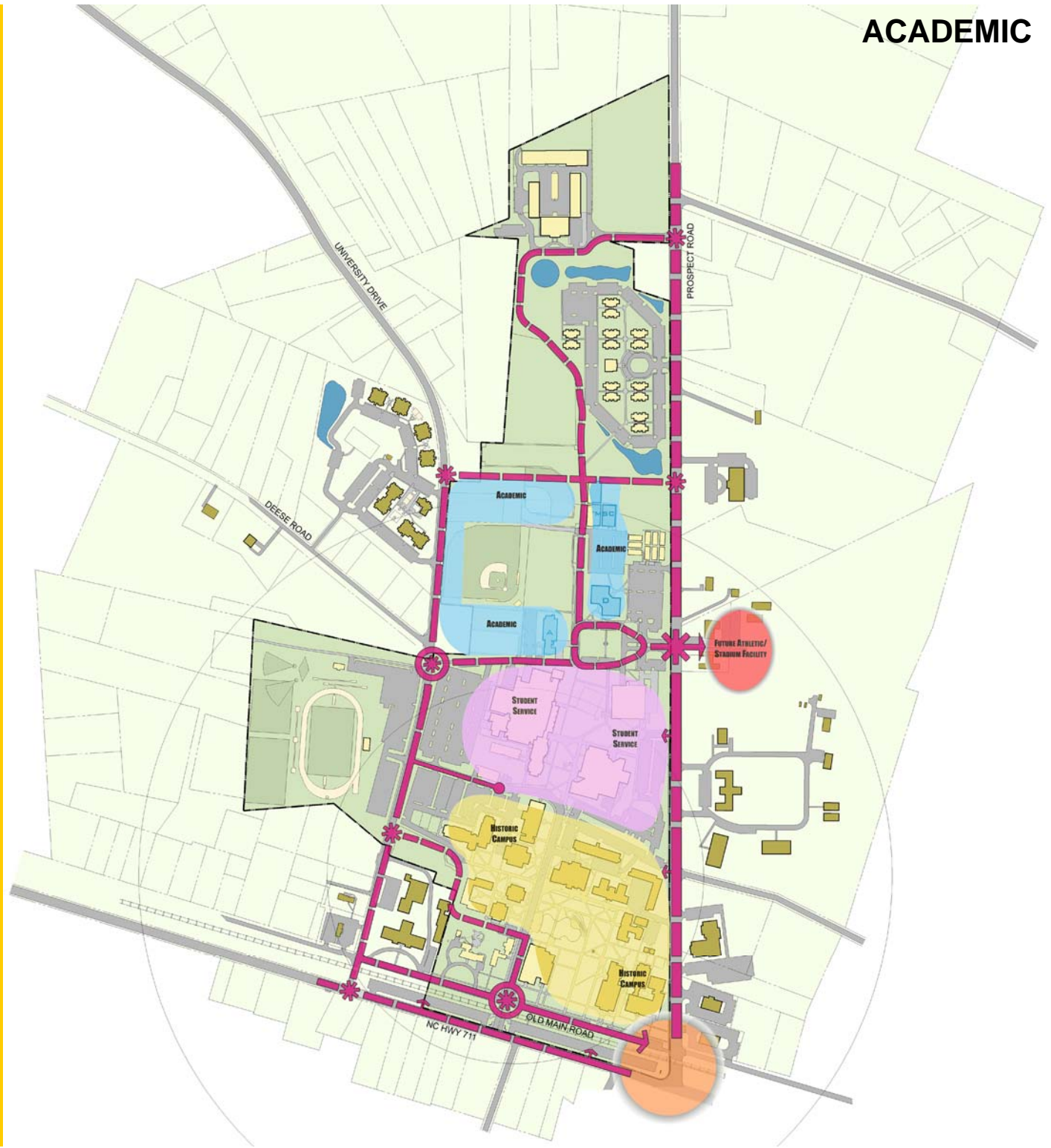


**MAJOR ACCESS**



**MINOR ACCESS**

**ACADEMIC**





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### LEGEND



**PRIMARY ENTRANCE**



**SECONDARY ENTRANCE**



**PEDESTRIAN SPINE**



**ENTRY NODE**

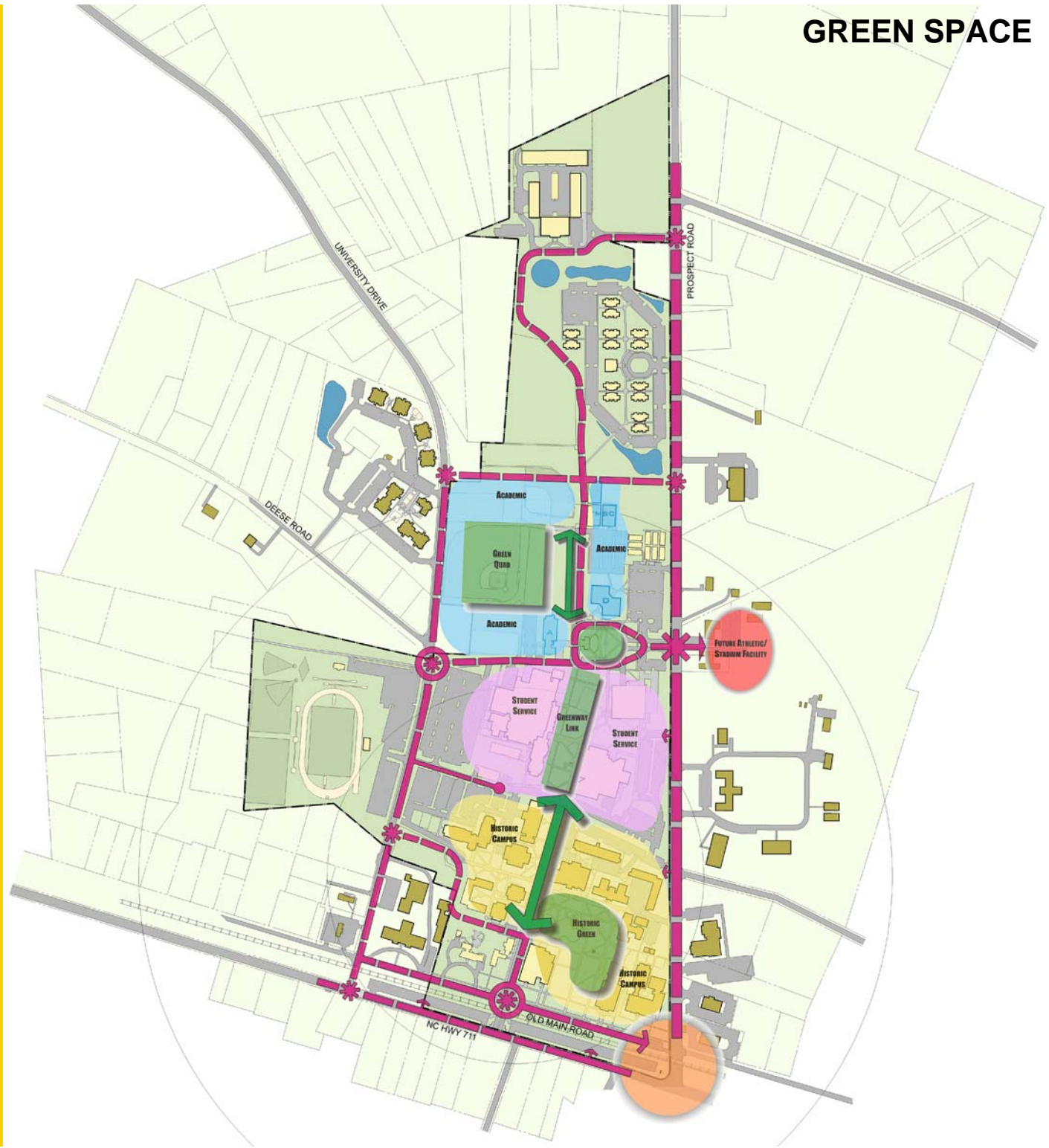


**MAJOR ACCESS**



**MINOR ACCESS**

### GREEN SPACE





# LEGEND

- A Lumbee Hall
- B Business Administration
- C Chavis University Center
- D Dial Humanities
- E Education Center
- F Pinchbeck Maintenance
- G Givens Performing Arts Center
- H Student Health Services
- J Jones Athletic Center
- K Belk Hall
- L D.F. Lowry / Bookstore
- M Moore Hall
- N Nursing
- O Old Main
- P Pine Hall
- Q Locklear Hall
- R North Hall
- S Sampson – Livermore Library
- T Field House
- U Auxiliary Services
- V Jacobs Hall
- W West Hall
- X Oxendine Science Building
- Y Wellons Hall
- Z Chancellor's Residence
- AA West Office Building
- BB Dogwood Office Complex
- CC Belk Complex Stadium





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**03-A New Classroom Building**

**03-B University Center Annex**

**03-C Auxiliary Services Building**

**03-D New University Entry**

**03-E Intramural Field Upgrade Completion**

**03-F Stadium Improvements**

03-G Givens PAC Renovations

03-H College Drive/Mall Conversion: Landscaping, Road Improvements, Pedestrian Conversion

03-J New Cross-road, paved link to North Campus area

03-K Baseball/Softball Center



# THREE-YEAR PLAN



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03-J New Cross-road, paved link to North Campus area

03-K Baseball/Softball Center

06-A Information Commons (Library, Computer Center, Campus Green)

06-B Greenway Link Improvements

06-C Campus Green Classroom Building 1

06-D University Drive Road Improvements

06-E Library Conversion to Student Services

06-F Demolish West Hall

06-G New Dormitory

06-H Student Health Services Renovation

06-J Optometry School – Location to be determined



# SIX-YEAR PLAN



# LEGEND

\* Funded projects are shown in red

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- CC Belk Complex Stadium
- 12-A Football Stadium
- 12-B Campus Commercial Center
- 12-C Prospect Drive Landscape Improvements
- 12-D West Campus Parking Deck
- 12-E Tennis Center
- 12-F Alumni Center
- 12-G Expanded athletic parking
- 12-H Student Housing
- 12-J Dormitory Complex
- 12-K Outdoor Center
- 12-L Campus Green Classroom Building 2
- 12-M East Campus Parking Deck
- 12-N Nursing Building
- 12-O Arts Annex
- 12-P Campus Student Life Center (Baptist Union, etc.)
- 12-Q New Chancellor's Residence
- 12-R Lumbee Hall Renovations
- 12-S Demolish Jacobs Hall and Wellons Hall

- 03-A **New Classroom Building**
- 03-B **University Center Annex**
- 03-C **Auxiliary Services Building**
- 03-D **New University Entry**
- 03-E **Intramural Field Upgrade Completion**
- 03-F **Stadium Improvements**
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- 03-H College Drive/Mall Conversion: Landscaping, Road Improvements, Pedestrian Conversion
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- 06-E Library Conversion to Student Services
- 06-F Demolish West Hall
- 06-G New Dormitory
- 06-H Student Health Services Renovation
- 06-J Optometry School – Location to be determined

# TWELVE-YEAR PLAN

Sports Alternate Site B

Sports Alternate Site C

Sports Alternate Site D

Sports Alternate Site A





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# LANDSCAPE MASTER PLAN



UNC-P CAMPUS MASTER PLAN

**Campus Landscape Standards**

A college campus is a landscape park with a mixture of gardens, green, plazas, play fields and woodlands in which students can immerse themselves while pursuing their studies in a setting of cultivated nature. A campus landscape is therefore an investment in green infrastructure that improves with age and ensures long term campus viability.

Three basic guidelines apply to campus landscaping:

- Keep it simple and functional: a campus landscape should emphasize simplicity of design and express Design-Arts principles. Quality and durability are much easier to achieve with simple, functional and straight forward designs.
- Use quality/sustainable material, quality material age well, stand up to abuse and have a comparatively long life expectancy. Establish sustainable plant material by using trees, shrubs and groundcovers that are native or naturalized to the campus area.
- Provide easily maintained installations: even the best design, implemented with quality materials, is ineffective if it cannot be maintained.

The following considerations will be integrated in the campus landscape design of the University of North Carolina at Pembroke.

**Specimen "Theme" Trees:** The development of the campus landscape with specimen "theme" trees will provide a sense of permanence, regional context and visual identity. The "theme" tree plant list shall emphasize the white oak, *Quercus alba* and related oak species as the primary overstory tree throughout the campus.

*Quercus alba*

White Oak

A magnificent native tree. Mature, slow growing, long lived, this tree ranks as one of the best for specimen usage.

HDR  
Campus Landscape Development Guidelines

UNC-P CAMPUS MASTER PLAN

**Color Accent Trees:** To be effective color accent tree plantings must be used generously in key locations. Selecting high visible locations will provide cohesion throughout the university grounds. The primary color accent trees shall be *Cornus*, dogwood species and *Lagerströmia indica*, crepe myrtle.

*Cornus florida*

White Flowering Dogwood

**Strong form and all seasons interest** make this one of the most desirable native plants. Appropriate for sustainable and specimen plants. Provide a well drained, protected site.

**Massing of Plant Material:** A large groupings of a single species are preferred to planting a large area with numerous species. Trees and shrubs should be in scale with the area planted. More variety and less repetition can be used in a small scale design (such as a building courtyard or plaza) in contrast to a large scale design (such as a green quad) by using smaller masses of plants.

**Maintenance Edges:** Maintenance edges provide an important sense of orderliness. Lawn areas should be separated from landscape beds with edging such as concrete walks, brick or concrete pavers, steel or plastic landscape edging or curbing.

**Security and Surveillance:** Plant material should be confined to 30' and lower, and tree canopy (tree limbs and leaves) should begin at 12' and above to allow for visual surveillance.

The following landscape design principles should be used to guide the future development and revitalization of UNC-P campus landscape.

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Campus Landscape Development Guidelines

UNC-P CAMPUS MASTER PLAN

- Plant Size:** Plant adequate size material to provide immediate effect but balance with the cost and ease of installation.
- Plant Spacing:** Trees should be arranged in formal patterns or in informal groups located at irregular intervals throughout the campus. Group shrubs as an informal mass or a formal hedge. Spacing is determined by the shrubs mature size. Do not overcrowd or allow spacing to form gaps between mature shrubs.
- Aesthetic Balance:** Arrange plant groupings to maintain a balance of form and texture. When plantings are grouped in landscapes they become design components that provide:
  - Direction** – Created by controlling and limiting pedestrian and vehicular movement to a linear space with relative consistent width and form of plant massing.
  - Pooling** – Achieved by creating a larger defined space or room where an activity can occur.
  - Framing** – Drawing attention to a focal area or an important view.
  - Scale Articulation** – The ability to change the perceived size of a space by using plant material to divide the space either horizontally or vertically in order to reduce the apparent size of the space.
  - Drought Tolerance** – Select plant varieties that are drought tolerant.
  - Interest** – Select varieties of plant material to ensure year round seasonal interest. Interest is provided by foliage, flowers, groundcovers, ornamental grasses and specimen trees.

**Texture** – Choose plant material to provide a variety of textures. Plant types in a grouping should be located to form a progression of textures from small, fine textured plants in the foreground to large textured plants in the background.

- Avoid selecting plant material with troublesome or aggressive root systems near buildings, pavement or underground utilities.
- Do not plant material with large flowers, large leaves and/or dripping sap around parking areas.

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Campus Landscape Development Guidelines

UNC-P CAMPUS MASTER PLAN

**Deciduous Shrubs:** Deciduous shrubs should be used as accents to create seasonal color interest. Due to their informal appearance they should not be used in high image areas where a manicured formal presentation is desired. Deciduous shrubs should be maintained with a "natural" growth habit and shall not be used as formal hedges. The minimum preferred size is 3'-4' height.

**Evergreen Shrubs:** Evergreen shrubs shall be selected from varieties of hardy shrubs commonly found in the region. They may be used where a low level screen or hedge is desired such as parking lots, sidewalks or as mass plantings in the landscape; they may also be used as effective ground covers on slopes. The minimum preferred size is 18"-24" spread.

**Evergreen Trees:** Evergreen trees shall be used at strategic locations and designed into group plantings to enhance "winter" seasonal interest, screen objectionable views of service areas and parking and act as a backdrop for ornamental (flowering) trees. Evergreen trees shall be selected from species native to the area or similar in appearance. The minimum preferred size is 8'-10' in height.

**Ornamental Trees:** Normally 12' to 25' tall at maturity ornamental trees should be planted for accents and visual emphasis. The flowering habits of ornamental trees are very effective.

**Foundation Plantings:** Foundation planting is used to create a reduction in the scale of structures and visually "anchor" the building to the ground. Foundation landscape treatments should be emphasized in the front, sides and entrances of buildings. Building corners should be framed with large plant material. Building entrances should be accented with specimen plant material to identify entry. Landscape treatments of major institutional facilities should be more elaborate to identify their importance.

**Streetscape and Canopy Trees:** Used between the building zone and the street edge or pedestrian ways, streetscape and canopy trees shall be major deciduous trees. They may be located within sidewalk planters, planting strips, medians or in planting zones between the sidewalk and building entrances. Canopy trees shall be used in parking islands and lawn areas, where they do not interfere with the design intent of streetscape plantings or building facades. The minimum preferred size is 3"-3 1/2" caliper. All street trees shall have a minimum 12' vertical clearance to its lowest branch. Spacing between street trees may vary according to individual species, but will generally be a minimum of 30' and placed with concern for street lighting and sight lines.

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Campus Landscape Development Guidelines

UNC-P CAMPUS MASTER PLAN

**Landscape Materials**

The following guidelines shall apply to the major categories of landscape materials in order to create the desired visual harmony among campus development sites. All plant material shall be selected from varieties visually compatible with or directly from the native vegetation and all shall be odorless and free of messy fruits and seeds. Species with chronic disease, pest problems and/or structural weaknesses shall be avoided. The following categories are addressed:

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**Streetscape and Canopy Trees:** Used between the building zone and the street edge or pedestrian ways, streetscape and canopy trees shall be major deciduous trees. They may be located within sidewalk planters, planting strips, medians or in planting zones between the sidewalk and building entrances. Canopy trees shall be used in parking islands and lawn areas, where they do not interfere with the design intent of streetscape plantings or building facades. The minimum preferred size is 3"-3 1/2" caliper. All street trees shall have a minimum 12' vertical clearance to its lowest branch. Spacing between street trees may vary according to individual species, but will generally be a minimum of 30' and placed with concern for street lighting and sight lines.

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**Turf:** Lawns and other turf zones within the street right-of-ways and other campus development areas may be seeded or planted with sod as an optional substitute. A standard turf shall be established for the entire campus.

**Edging Material:** Use of plant bed edging, mowing strips or other edging materials is encouraged. Acceptable materials include concrete pavers, brick pavers, stone and steel or plastic landscape edging.

**Match Material:** Functionally, mulches discourage weeds, conserve moisture during drought periods, allow better use of water by controlling run off and increase the water holding capacity of light sandy soils. A three to four inch mulch layer is recommended. Acceptable materials include pine needles, hardwood bark and shredded pine, cedar or cypress bark.

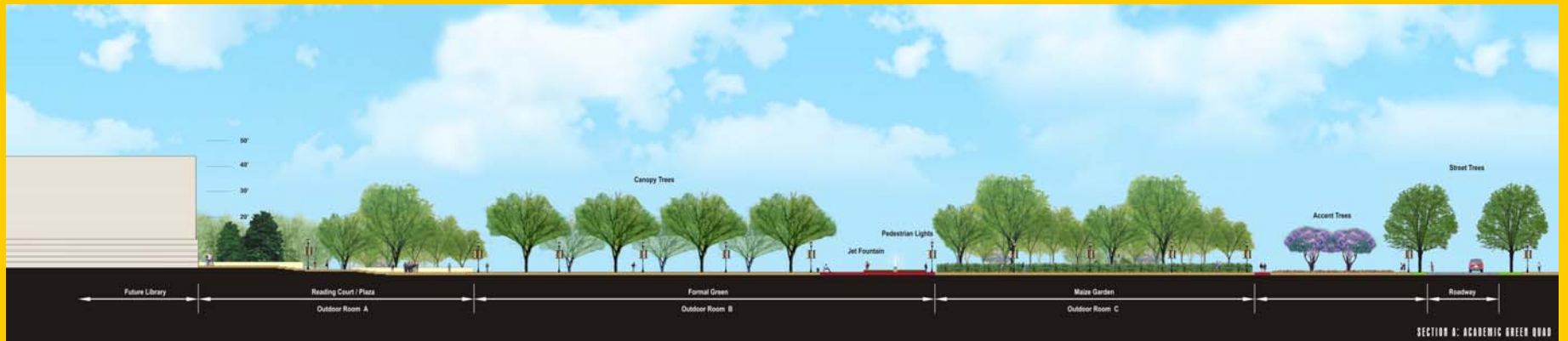
**Landscape Practices**

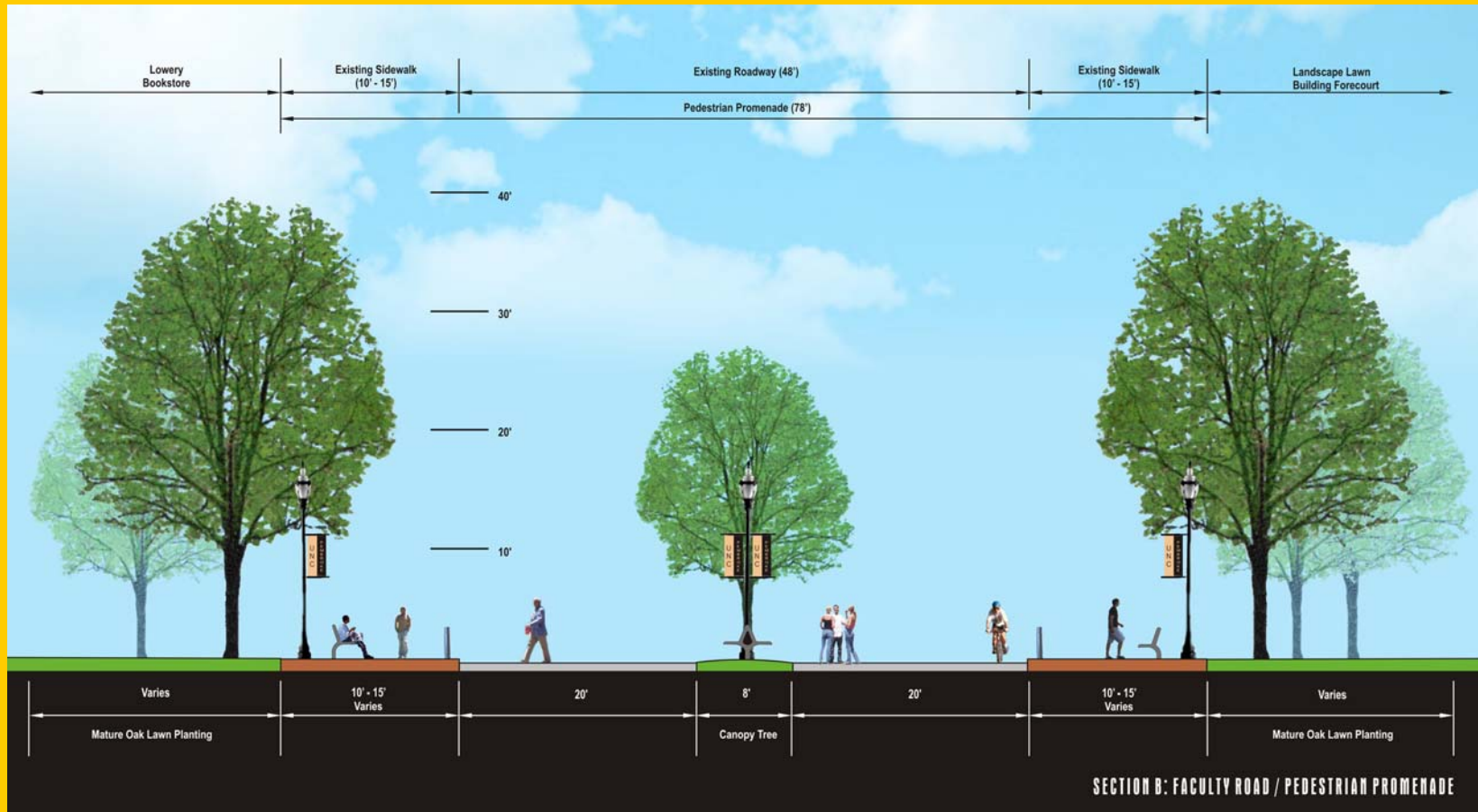
**Planting Practices:** Planting practices should be standardized. All plants should be nursery grown in accordance with the highest standards of horticultural practices, and grown under climatic conditions similar to those of the region. Plants shall be disease free and have healthy well developed root systems. All plants shall conform to the American Standard for Nursery Stock as published by the American Association of Nurserymen.

**Landscape Maintenance:** A landscape maintenance program is recommended for the UNC-P campus. An executed contract with a local landscape maintenance company is preferred. The landscape maintenance program shall include:

- Pruning trees and shrubs to maintain an attractive shape, removing dead branches and providing clearance for vehicles and pedestrians.
- Replacing dead and disfigured plant material immediately with equivalent plants.
- Fertilizing, mulching, watering and weeding plant beds. Applying insecticides and fungicides as necessary to maintain plant vigor and appearance.
- Watering, mowing and maintaining lawns in a dense weed free condition.
- Developing a seasonal interest planting scheme with the use of annual and perennial flowers, wildflowers, grasses, groundcovers and other accent plant material.

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Sports Alternate Site B

Sports Alternate Site C

Sports Alternate Site D

Sports Alternate Site A





## Design Team:

### **Charles H. Boney, Jr., AIA**

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