

2017 CAROLINA NORTH ANNUAL REPORT

REPORTING PERIOD: JULY 1, 2016-JUNE 30, 2017

Prepared by UNC-CH Facilities Planning & Design

8/31/2017

I. 2016-2017 Activities to Report

A. Housing

Units constructed: None.

Estimated number of residents living in Carolina North Housing: None.

Estimated number of Full Time Equivalent employees working on site at

Carolina North, as of June 30, 2016:

- 1 FTE employee at Horace Williams Airport
- 2 FTE employees at Carolina North Forest Management office
- 7 FTE employees at the Chapel Hill Police Department substation
- 2FTE Grounds Department employees
- 9 FTE Housekeeping Department employees

B. Parking, Traffic and Transit

Report on parking provided vs. baseline parking ratios: The University has not constructed any new facilities, nor provided any additional parking during this reporting period. The Chapel Hill Police continue to have nonexclusive use of parking adjacent to their leased building.

Current status of transit planning for Carolina North Project and coordination within Short Range Transit Plan process: The Town and the University continue to work on several transit planning efforts that will impact access to Carolina North. The Orange County Bus and Rail Investment Plan, funded in part by a half-cent sales tax approved by Orange County voters, supports development of light rail transit between Orange and Durham counties,

as well as other transit system enhancements throughout the County and Chapel Hill. The Chapel Hill Transit Partners have agreed upon the use of portions of the increased funding received by Chapel Hill Transit, including additional services that have been implemented since August 2013. The North-South Corridor Study is analyzing bus rapid transit options along Martin Luther King, Jr. Boulevard and US 15-501 South. The transit improvements being analyzed, if funded, would serve Carolina North. A locally preferred alternative was selected by the Chapel Hill Town Council on April 27, 2016, and the project is advancing to the next level of study, Preliminary Engineering/Environmental Review, beginning this fall. Additional information on the study can be found at: <http://nscstudy.org/>

Coordination with Transportation Management Plan: Transportation Management Plan coordination was not required because the University had no development during the reporting period.

Short Range Fiscal Plan—Actions taken to address recommendations in the most recent SRFP: No activity to report during this period. The initial SRFP is to be completed in conjunction with the issuance of an initial site development permit.

C. Land Use and Activities in Limited Development Area

Chilled water, steam, electric ductbank, water and telecom lines: No activity on chilled water, steam lines, electric ductbank, water or telecom lines.

Reclaimed water line (with OWASA): No activity to report for this period.

Maintenance and improvements to existing utility lines: No activity to report for this period.

Stormwater lines and improvements: No activity to report for this period.

Stormwater structures: No activity to report for this period.

Public utility lines traversing site: No activity to report for this period.

Utility structures without a building (e.g., electrical substation): No activity to report for this period.

Alterations to utility equipment (generator, other mechanicals): No activity to report for this period.

Site storage and construction staging areas: No activity to report for this period.

Stream restoration projects: No activity to report for this period.

Greenways and other paved trails: No activity to report for this period.

Public art: No activity to report for this period.

Site clearing for any other purpose: No activity to report for this period.

Alterations (but not expansion) in existing parking lots, including repaving, replanting for stormwater mitigation, etc.: No activity to report for this period.

Roads, internal service without exterior connections and not designed for vehicular circulation to serve buildings within Carolina North developed area: No activity to report for this period.

Exterior tennis and basketball courts: No activity to report for this period.

Athletic facilities and events that are not buildings and that do not involve land clearing or grading of more than 20,000 square feet:

- April 2017: 5K Trail Race sponsored Fuqua Blue Cup;
- April-June 2017: Weekly Runs sponsored by Trailheads;
- April-June 2017: UNC Cross Country (XC) Team Training sponsored by UNC Athletics;

- April-June 2017: Orienteering sponsored by Patrick & Kelly Sears/Smith Middle School;
- April-June 2017: Youth Mountain Bike (MTB) Rides sponsored by Team Jammer/Kids On Bikes Riding Around (KOBRA);
- April-June 2017: HS XC training sponsored by Group Hassan;
- April-June 2017: Meetup Rides sponsored by Triangle Off-Road Cyclists (TORC);
- May 2017: Philosopher's Way Trail Run sponsored by Trailheads;
- January-March 2017: Weekly Trail Runs sponsored by Trailheads;
- January-March 2017: Youth MTB Rides sponsored by Team Hammer/KOBRA;
- January-March 2017: UNC XC Team Training sponsored by UNC Athletics;
- January-March 2017: Meetup Rides sponsored by TORC;
- March 2017: Orienteering sponsored by Patrick & Kelly Sears/Smith Middle School;
- December 2016: Carrboro 50K trail race sponsored by Trailheads.
- November 2016: Community Run sponsored by Unity Center of Peace;
- November-December 2016: NC Interscholastic Cycling League Team Ride/Practice sponsored by Chapel Hill Carrboro Middle School Composite MTB Team;
- October-December 2016: Weekly Runs sponsored by Trailheads;
- October-December 2016: Youth MTB Rides sponsored by Team Hammer/KOBRA;
- October-December 2016: Meetup Rides sponsored by TORC;
- October-December 2016: Orienteering sponsored by Patrick & Kelly Sears/Smith Middle School;
- October 2016: Pumpkin Run race sponsored by Fleet Feet;
- October 2016: Orienteering sponsored by BOK/David Waller;

- October 2016: EWB 6K/Spooky Trail Run sponsored by UNC Chapter of EWB;
- September 2016: High School XC meets;
- August 2016: Orienteering sponsored by BOK/Jonathon Huberman;
- July-September 2016: Weekly Runs sponsored by Trailheads;
- July-September 2016: Youth MTB Rides sponsored by Team Hammer/KOBRA;
- July-September 2016: Meetup Rides sponsored by TORC;
- July 2016: HS XC training sponsored by Group Hassan;
- July 2016: MTB Camp sponsored by Carrboro Parks & Recreation Dept./Tamara Sanders.

Gazebos and other open-air shelters, parks, children’s play areas, passive recreation features, and park site furnishings: No activity to report for this period.

Unpaved trail construction/maintenance (including volunteer work on paths, harvesting, etc.:

- May 2017: Trail/stream crossing improvement on ‘Occoneechee’ Loop by staff
- April-May 2017: Trail maintenance on ‘Occoneechee’ Loop by staff and volunteers
- April 2017: Road maintenance regrading and resurfacing on Municipal Dr. by Contracted Services
- April 2017: Trail/stream crossing improvement on ‘Wormhole’ Spur by staff
- March-April 2017: Road maintenance regrading and resurfacing on ‘Tripp Farm’ by staff

- March-April 2017: Trail/stream crossing improvement on ‘Nature Observation’ Spur by staff
- March-April 2017: Trail relocation on ‘Nature Observation’ Spur by staff
- March-April 2017: Trail/stream crossing improvement on ‘Occoneechee’ Loop by staff
- March 2017: Trail/stream crossing improvement on ‘Wormhole’ Spur by staff
- January-June 2017: Wayfinding updates for all named loops and spurs, including ribbon signs displaying trail names and measured/replaced wayfinding markers.
- November 2016-January 2017: Trail relocation on ‘Occoneechee’ Loop by staff and volunteers
- October-November 2016: Trail Maintenance on ‘Neverland Inner’ and ‘Neverland Outer’ Loops by staff
- October 2016: Road maintenance regrading and resurfacing on Municipal Dr. by Contracted Services
- September-November 2016: Road maintenance regrading and resurfacing on ‘Tripp Farm’ by staff
- September 2016: Road maintenance regrading and resurfacing of ‘Maytag’ by staff
- August-October 2016: Trail relocation on ‘Nature Observation Trail’ Spur by staff
- August-October 2016: Trail maintenance on ‘Wormhole’ Spur by staff and volunteers
- September 2016: Trail/stream crossing improvement on ‘Wormhole’ Spur by staff
- August 2016: Trail/stream crossing improvement on ‘Wormhole’ Spur by staff

Memorial gardens: No activity to report for this period.

Kiosks and benches: No activity to report for this period.

Incidental parking areas: No activity to report for this period.

Site furnishings (recycle containers, fixtures, blue lights): No activity to report for this period.

Support facilities for special events (Tar Heel Town, concerts, etc.): No activity to report for this period.

Demolitions: No activity to report for this period.

Landscaping activities: Between November 2016 and March 2017, staff and volunteers focused on mechanical removal of invasive *Elaeagnus* species in the Bolin Creek West Conservation Area; see CN Forest Activities Map for location.

Community Gardens: No activity to report for this period.

Miscellaneous activities: No activity to report for this period.

Community gardens: No activity to report for this period.

Miscellaneous:

- April 2017: The leased house located at 2311 Homestead Road was damaged by fire. The property disposition is pending University review.
- September 2016-January 2017: Working with Orange County, Town of Chapel Hill and NCDOT on an Orange County initiated project, the University funded the sidewalk extension that crosses the short section of Carolina North at Homestead Rd. The overall sidewalk project connected the existing crosswalk at Weaver Dairy Extension to the existing sidewalk located east of the Project Homestart driveway at 2505 Homestead Rd.

D. Land Use and Activities in Development Area

Chilled water, steam, electric ductbank, water and telecom lines: No activity for chilled water, steam, electric ductbank, water or telecom lines.

Reclaimed water line (with OWASA): No activity to report for this period.

Maintenance and improvements to existing utility lines: No activity to report for this period.

Stormwater lines and improvements: No activity to report for this period.

Stormwater structures: No activity to report for this period.

Public utility lines traversing site: No activity to report for this period.

Utility structures without a building (e.g., electrical substation): No activity to report for this period.

Alterations to utility equipment (generator, other mechanicals): No activity to report for this period.

Site storage and construction staging areas: No activity to report for this period.

Stream restoration projects: No activity to report for this period.

Greenways and other paved trails: No activity to report for this period.

Public art: No activity to report for this period.

Site clearing for any other purpose: No activity to report for this period.

Miscellaneous: In May 2016, the University removed a leased modular unit occupying a previously existing modular unit site within the former Town facilities area. This modular unit provided an interim location for the daycare portion of the UNC Medical School affiliated UNC Horizons Program.

E. Greenways

Report on examination and recommendations for a greenways partnership model comparable to public transit partnership: No activity to report for this period.

Report on potential locations and funding alternatives for campus-to-campus greenway and bike connection: No activity to report for this period.

Current status and funding of greenway connections at Carolina North (after greenways plan submitted with initial individual site development permit):
No activity to report for this period.

Greenway improvements and document compliance with 5.16.14: No activity to report during this period.

Report on consideration of pedestrian connections to adjacent neighborhoods: No activity to report during this period.

F. Waste Management

The University currently provides trash and recycling services for all University-owned buildings, including buildings at Carolina North, and a number of leased properties. The recycling program covers a variety of materials and is continually evaluated for improvement and expansion. A representative from the University Office of Waste Reduction and Recycling is involved in project reviews and helps identify waste reduction, reuse, and recycling opportunities. Specifications detailing University and regulatory requirements regarding construction waste management and reporting are to be included in each project manual. Project teams educate contractors about University, local, state and project-specific

requirements; review and suggest changes to contractors' Solid Waste Management Plans; and collect waste reports from participating projects. Future construction projects and finished buildings will be managed and supported similarly. No fiscal impacts on the Town have been noted and waste management strategies have not been amended.

G. Recreation Areas

Study of feasibility and cost-sharing options for future joint-use recreation areas at Carolina North: No activity to report for this period.

Description of improvements for recreation areas and document compliance with 5.15.5: No new recreational facilities or recreational areas were developed on the Carolina North property during the 2016-2017 fiscal year. The use of the Carolina North property for recreational purposes continues to thrive as residents of Chapel Hill, Carrboro and surrounding communities, make frequent and extensive use of the University's network of trails on the Carolina North property. Over 25 miles of trails are woven through the Carolina North Forest. The University, through its Forest Management Office Staff, facilitates cooperative use of the network of trails in the Carolina North Forest for the benefit of local schools, community organizations, and individual residents of Chapel Hill, Carrboro and the broader community.

H. Stream Buffers

No activity to report for this period.

I. Tree Canopy

The University is committed to proactive management of the Carolina North Forest and strives to maintain or increase the overall tree canopy of the tract. In the last year, canopy maintenance activities again focused on the removal of exotic, non-native, invasive or otherwise undesirable species to promote natural growth of the native canopy. As construction projects are planned, staff will assess the potential impacts on tree canopy with the objective of offsetting any loss in canopy.

II. 2017-2018 Development Schedule

The Field Operations Building and UNC Housekeeping modular unit are expected to remain at Carolina North through calendar year 2018. The University will continue to use the Field Operations Building to address appropriate campus space needs after UNC Housekeeping moves to their permanent location. Furthermore, the University will reexamine whether these needs require the continued use of the two modular building sites used by UNC Housekeeping and the temporary Horizon's Child Development Center on an annual basis.

In spring 2018, the University will install a solar and energy storage demonstration project within the boundary of the Development Area. This 491 KW ground-mounted PV array and associated equipment and batteries will be positioned southwest of the existing Horace Williams Airport runway, inside the fenced area and adjacent to Estes Drive Extension. This utility project is intended to be movable in order to accommodate future University development as permitted by the Development Agreement. Currently,

the University does not have immediate plans for additional development in this area that would disrupt the solar demonstration project.

A. Public Information Meetings held

- 9/12/2016 - UNC Semi-Annual Capital report to Town Council and Manager's compliance report to Town Council on Annual Report.
- 10/29/2016 - TOCH Annual Report Public Information Meeting.

III. 2016-2017 Reportable Items Checklist

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
4.14	Report demonstrating good faith compliance with terms of DA	Report demonstrating good faith compliance with terms of DA	Cover Letter
4.14 (& 5.27.4.a.)	Construction Activity	List of individual site development permits issued	No activity to report.
4.14 (& 5.27.4.a.)	Construction Activity	Building floor area constructed	No activity to report.
4.14 (& 5.27.4.a.)	Construction Activity	Infrastructure installed	No activity to report.
4.14 (& 5.27.4.a.)	Construction Activity	Status of University participation in provision of or financing of public infrastructure	No activity to report.
4.14 (& 5.27.4.a.)	Construction Activity	Infrastructure dedicated/acquired	No activity to report.
4.14 (& 5.27.4.a.)	Construction Activity	Projected schedule for CN development for following year	No activity to report.
5.4.2 (& 5.27.4.b.)	Housing	Units constructed	None See page 1 of 18.
5.4.2 (& 5.27.4.b.)	Housing	Estimated number of residents living in CN housing	None See page 1 of 18.
5.4.2 (& 5.27.4.b.)	Housing	Estimated number of FTE employees working on site at CN	See page 1 of 18.
5.5.2.e.1 (& 5.27.4.f.)	Land Use-Limited Development Area	Chilled water, steam, electric ductbank, water and telecom lines	No activity to report. See page 2 of 18.
5.5.2.e.2 (& 5.27.4.f.)	Land Use-Limited Development Area	Reclaimed water line (with OWASA)	No activity to report. See page 2 of 18.
5.5.2.e.3 (& 5.27.4.f.)	Land Use-Limited Development Area	Maintenance and improvements to existing utility lines	No activity to report. See page 2 of 18.

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
5.5.2.e.4 (& 5.27.4.f.)	Land Use-Limited Development Area	Stormwater lines and improvements	No activity to report. See page 3 of 18.
5.5.2.e.5 (& 5.27.4.f.)	Land Use-Limited Development Area	Stormwater structures	No activity to report. See page 3 of 18.
5.5.2.e.6 (& 5.27.4.f.)	Land Use-Limited Development Area	Public utility lines traversing site	No activity to report. See page 3 of 18.
5.5.2.e.7 (& 5.27.4.f.)	Land Use-Limited Development Area	Utility structures without a building (e.g., electrical substation)	No activity to report. See page 3 of 18.
5.5.2.e.8 (& 5.27.4.f.)	Land Use-Limited Development Area	Alterations to utility equipment (generator, or other mechanicals)	No activity to report. See page 3 of 18.
5.5.2.e.9 (& 5.27.4.f.)	Land Use-Limited Development Area	Site storage and construction staging areas	No activity to report. See page 3 of 18.
5.5.2.e.10 (& 5.27.4.f.)	Land Use-Limited Development Area	Stream restoration projects	No activity to report. See page 3 of 18.
5.5.2.3.11 (& 5.27.4.f.)	Land Use-Limited Development Area	Greenways and other paved trails	No activity to report. See page 3 of 18.
5.5.2.e.12 (& 5.27.4.f.)	Land Use-Limited Development Area	Public art	No activity to report. See page 3 of 18.
5.5.2.e.13 (& 5.27.4.f.)	Land Use-Limited Development Area	Site clearing for any other purpose	No activity to report. See page 3 of 18.
5.5.2.f.2 (& 5.27.4.f.)	Land Use-Limited Development Area	Alterations (but not expansion) in existing parking lots, including repaving, repaving, replanting for stormwater mitigation, or changing impervious to pervious pavement	No activity to report. See page 3 of 18.
5.5.2.f.3 (& 5.27.4.f.)	Land Use-Limited Development Area	Roads, internal service without exterior connections and not designed for vehicular circulation to serve buildings within CN developed area	No activity to report. See page 3 of 18.

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
5.5.2.f.4 (& 5.27.4.f.)	Land Use-Limited Development Area	Exterior tennis and basketball courts	No activity to report. See page 3 of 18.
5.5.2.f.5 (& 5.27.4.f.)	Land Use-Limited Development Area	Athletic facilities and events that are not buildings and that do not involve land clearing or grading of more than 20,000 square feet.	See page 3 of 18.
5.5.2.f.6 (& 5.27.4.f.)	Land Use-Limited Development Area	Gazebos and other open air shelters, parks, children's play areas, passive recreation features, and park site furnishings	No activity to report. See page 5 of 18.
5.5.2.f.7 (& 5.27.4.f.)	Land Use-Limited Development Area	Unpaved trail construction/maintenance (including volunteer work on paths, harvesting	See page 5 of 18.
5.5.2.f.8 (& 5.27.4.f.)	Land Use-Limited Development Area	Memorial gardens	No activity to report. See page 6 of 17.
5.5.2.f.9 (& 5.27.4.f.)	Land Use-Limited Development Area	Kiosks and benches	No activity to report. See page 6 of 18.
5.5.2.f.10 (& 5.27.4.f.)	Land Use-Limited Development Area	Incidental parking areas	No activity to report. See page 7 of 18.
5.5.2.f.11 (& 5.27.4.f.)	Land Use-Limited Development Area	Site furnishings (recycle containers, fixtures, blue lights)	No activity to report. See page 7 of 18.
5.5.2.f.12 (& 5.27.4.f.)	Land Use-Limited Development Area	Support facilities for special events (Tar Heel Town, concerts, etc.)	No activity to report. See page 7 of 18.
5.5.2.f.13 (& 5.27.4.f.)	Land Use-Limited Development Area	Demolitions	No activity to report. See page 7 of 18.
5.5.2.f.14 (& 5.27.4.f.)	Land Use-Limited Development Area	Landscaping activities	See page 7 of 18.
5.5.2.f.15 (& 5.27.4.f.)	Land Use-Limited Development Area	Community gardens	No activity to report. See page 7 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.1)	Land Use-Development Area	Chilled water, steam, electric ductbank, water and telecom lines	No activity to report. See page 8 of 18.

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.2)	Land Use- Development Area	Reclaimed water line (with OWASA)	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.3)	Land Use- Development Area	Maintenance and improvements to existing utility lines	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.4)	Land Use- Development Area	Stormwater lines and improvements	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.5)	Land Use- Development Area	Stormwater structures	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.6)	Land Use- Development Area	Public utility lines traversing site (Duke Energy, PSNC, etc.)	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.7)	Land Use- Development Area	Utility structures without a building (e.g., electrical substation)	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.8)	Land Use- Development Area	Alterations to utility equipment (generator, other mechanicals)	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.9)	Land Use- Development Area	Site storage and construction staging areas	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.10)	Land Use- Development Area	Stream restoration projections	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.11)	Land Use- Development Area	Greenways and other paved trails	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.12)	Land Use- Development Area	Public art	No activity to report. See page 8 of 18.
5.5.3.d. (& 5.27.4.g.) (tracking 5.5.2.e.13)	Land Use- Development Area	Site clearing for any other purpose	No activity to report. See page 8 of 18.
5.7.2 (& 5.27.4.c.)	Stormwater Cost- Sharing	Cost-sharing agreements (to be updated every three years)	The existing agreement has been updated to cover the 2015-2018 time frame.

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
5.8.7.a (& 5.27.4.d.)	Parking, Traffic and Transit	Current status of transit planning for CN Project and coordination within SRTP process	See page 1 of 18.
5.8.11.b (& 5.27.4.d.)	Parking, Traffic and Transit	Coordination with Transportation Management Plan	See page 2 of 18.
5.9.3 (& 5.27.4.e.)	Short Range Fiscal Plan	Actions taken to address recommendations in most recent SRFP	No activity to report. See page 2 of 18.
5.10 (& 5.27.4.h.)	Carbon and Other Greenhouse Emissions	Greenhouse gas emissions and offsets updated biennially	No report required until two years after initial site development permit.
5.11.3 (& 5.27.4.i.)	Water Use/Water Reclamation	Progress toward reductions of 20 percent indoor and 50 percent outdoor	No report is required, since no site development permit applications have been submitted.
5.12 (& 5.27.4.j.)	Design Guidelines	Informational copy of any updates to Design Guidelines	No updates have been made to Design Guidelines.
5.12.11 (& 5.27.4.k.)	Public Art	Update on plans, activities, implementation	There are no activities to report.
5.15.4 (& 5.27.4.o.)	Recreation Areas	Study of feasibility and cost-sharing options for future joint-use recreation areas at CN	No report required.
5.15.5 (& 5.27.4.o.)	Recreation Areas	Description of improvements for recreation areas and document compliance with 5.15.5	No new recreational facilities or recreational areas were developed on the CN property.
5.16.1.b (& 5.27.4.l.)	Greenways	Report on examination and recommendations for a greenways partnership model comparable to public transit partnership	No activity.

DA Section	Topic	Subtopic	2017 AR Section (or reason for no report)
5.16.2 (& 5.27.4.l.)	Greenways	Report on potential locations and funding alternatives for campus-to-campus greenway and bike connection	No activity.
5.16.4 (& 5.27.4.l.)	Greenways	Current status and funding of greenway connections at CN (after greenways plan submitted with initial individual site development permit)	UNC has not submitted a site development permit.
5.16.14 (& 5.27.4.l.)	Greenways	Greenway improvements and document compliance with 5.16.14	No activity.
5.16.15 (& 5.27.4.l.)	Greenways	Report on consideration of pedestrian connections to adjacent neighborhoods	No activity.
5.18 (& 5.27.4.m.)	Waste Management	Description of strategies/impacts	See page 9 of 18.
5.19.5 (& 5.27.4.p.)	Airport Closing Assessment	Environmental impacts (after cessation of airport activities)	Horace Williams Airport is still open, so no report is due.
5.20.1 (& 5.27.4.n.)	Stream Buffers	Description of improvements and document compliance with 5.20	No activity.
5.21.1	Tree Canopy	Demonstration of best efforts to maintain or increase tree canopy	See page 11 of 18.