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# Map Description automatically generated

# **Services Provided:**

**Ackland Art Museum Expansion**

* Provided preliminary civil engineering design services related to utilities and storm drainage.

**Music Building**

* Water and sewer facilities in highly congested area.
* Water distribution analysis.
* Storm drainage and stormwater management.
* Driveway access issues.
* Erosion control.
* Plan approval with Chapel Hill.
* Construction Administration.
* Parking lot expansion, accessibility issues.
* Storm drainage and erosion control design.
* Relocation of underground utilities.
* Local plan approval assistance with Chapel Hill.
* Water permitting with OWASA and NCDENR Public Water Supply.
* Erosion Control Permitting with NCDENR Land Quality.
* NCDOT driveway permit and encroachment agreements.

# **UNC Arts Common Complex**

# **Ackland Art Museum & UNC Music Building**

# Client Reference: Walt Havener, ASLA, Surface 678 (fka Lappas+Havener, PA)

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# **Services Provided:**

* Civil Engineering services provided through the project architect.
* Parking lot expansion, accessibility issues.
* Storm drainage and erosion control design.
* Relocation of underground utilities.
* Local plan approval and permitting from the Town of Chapel Hill and OWASA.

**Graham Building Addition**

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# **Services Provided:**

* Civil engineer for $43 million, nine story, 250,000 s.f. facility.
* Facility includes research laboratories, expanded inpatient and outpatient clinics for neurology, microsurgery and otolaryngology.
* Civil design included utilities, parking lot, new access road on Manning Drive, and storm water management for 15-acre site.
* Performed inventory, mapping and analysis of existing storm drainage system.

**North Carolina Neurosciences Hospital**

# A few flags in front of a building Description automatically generated with medium confidence

# **Services Provided:**

* Civil engineering consultant for schematic design through construction administration.
* Surveying consultant.
* 65,000 sf institutional classroom, conference and office facility overlooking Student Activity Center site.
* Civil sitework design of 2,100 lf access drive, water, sewer, parking, storm drainage and retaining walls
* 80 parking spaces.

**The Kenan Center**

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# **Services Provided:**

* Consulting civil engineer and project surveyor.
* Sitework for 160,000 sf classroom and office facility.
* Civil design work of water, sewer, storm drainage, horizontal layout, structural design of retaining walls.
* Pedestrian link to the proposed 500 space parking deck.
* Field work, computations, coordination with utility services and drafting necessary to prepare a topographic survey of 8 acres showing underground utilities, trees and boundary lines.

**The Kenan-Flagler School of Business**



# **Services Provided:**

* Civil engineering and surveying consultant.
* Sitework design for 63,000 s.f. combination meeting, social and administrative facility on UNC-CH Campus.
* Civil design of access and service drives, water and sewer, storm drainage parking improvements, chilled water, steam and condensate lines.

**The George Watts Hill Alumni Center**