MUSC
R. KEITH SUMMEY PAVILION
North Charleston, SC

CREATING THE OR OF THE FUTURE: A joint research study between MUSC and Clemson University on the operating room of the future coincided with the early states of design for the project. As a result, the design team was integral in creating the operating room of the future wile incorporating emerging research on room orientation, size, the optimal location of the operating room table, position of the anesthesiologist, daylight, and finishes.

PROTOTYPE STANDARDS: Standardized, flexible exam rooms and pods host rotating specialists throughout the week as well; this configuration allows patients to combine multiple specialists' appointments into one visit to the ambulatory surgical center. This approach not only customizes each patient's visit to maximize the family's time, but also streamlines the collaborative care approach. Collaboration between physicians and clinicians has significantly increased due to the design of the clinical pods which allow staff from different specialties to work together and create a holistic patient plan. Likewise, the staff move to the patient allowing the patient to remain in one exam room for their visit rather than relocating to see different specialists. LS3P also transformed the registration and waiting process and design which has shaved off over 5 minutes of wait time for patients and their family members using technology, revised operational procedures, and the design and location of the registration and waiting room areas.

LEAN DESIGN: Flexible, multi-functional spaces were a primary design goal. Strategies included induction rooms outside of the operating room to maximize through-put while reducing stress for patients by allowing families to bypass the gowning and gloving process to stay together until the procedure begins. An orthopedic clinic transitions to an urgent care in the evening. To best support the staff and physicians, flexible and unassigned workspaces boost communication, reduce silos among departments, and support an authentic collaborative care approach.

DELIVERY METHOD

Construction Manager @ Risk

BE&K Building Group

YEAR COMPLETED

2019

SIZE

98,000 SF

COST

$37,000,000

CLIENT CONTACT

Sarah Bacik, Chief Strategy/Business Development Officer

Medical University of South Carolina

843.792.9917

baciks@musc.edu

NHRMC
NOVANT NEUROSCIENCE INSTITUTE

Wilmington, NC

> The rooms are first class, and I think it's the most beautiful space in the hospital. The patient rooms and procedural spaces are all state of the art, and many of the new hires say that was a big draw. It has enhanced our ability to recruit."
>
> Dr. James McKinney
> *Medical Director of the Novant Health Neurosciences Institute in the Coastal region*

The new Neuroscience Institute at Novant Health's Medical Center in Wilmington, NC, provides highly specialized treatment related to brain and spine health. The hospital within a hospital provides stroke and neurological care for patients and the newly renovated surgery center features Neurosciences Operating Rooms, a Biplane and Hybrid Operating Room, as well as ten Neuro Intensive Care Patient Rooms. This 20,000 SF space occupies two units on the surgical pavilion East wing, with each of its two floors serving a unique purpose.

12,000 SF of the first floor is the new Neurosciences Procedural Suite featuring the ARTIS icono biplane for neuro interventional therapies, minimally invasive technology used to diagnose and treat stroke and other neurological conditions.

8,000 SF of the fifth floor offers state-of-the-art, high-tech Neuro operating rooms featuring Brainlab (next generation OR integration platform); Cios Spin (intraoperative 3D imaging for precise guidance and versatility); Aeos Robotic Digital Microscope (provides a better view of patients in surgery with immersive 3D 4K imaging paired with HDR); and NuVasive Pulse (integrates multiple enabling technologies to improve workflow, reduce variability and increase the reproducibility of surgical outcomes for spinal patients).

DELIVERY METHOD

Design Bid Build

Rodgers Builders Inc.

YEAR COMPLETED

2023

SIZE

20,178 SF

COST

$6,031,950 1st Floor / $3,020,540 5th Floor

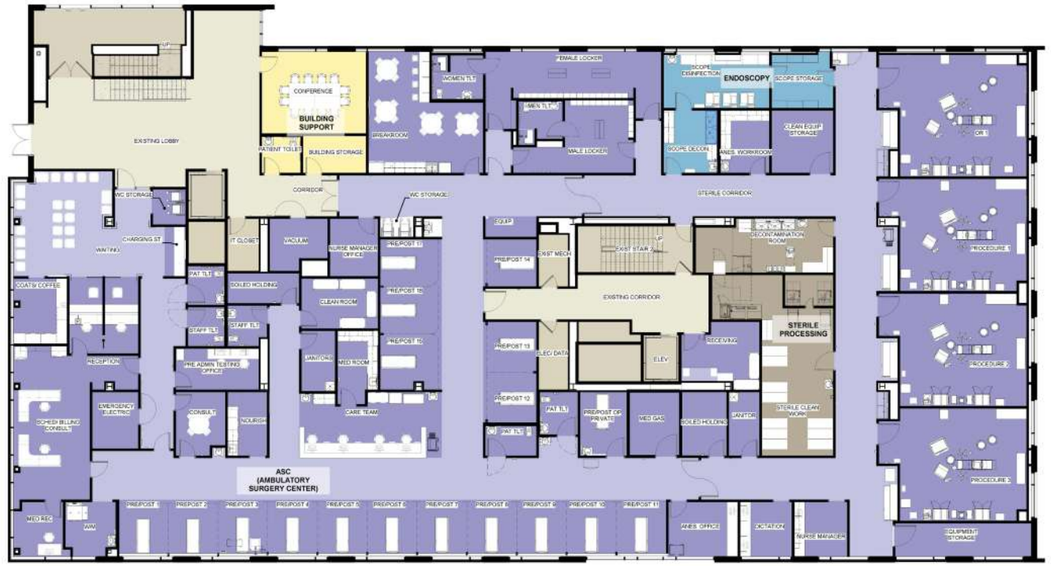
CLIENT CONTACT

Taylor Simms, Director Facility Planning

taylor.simms@novanthealth.org

LS3P

WAKEMED MEDICAL PARK OF CARY
MOB, AMBULATORY SURGERY CENTER
Cary, NC



The master planning and design for this medical office building/ ambulatory surgical center focused on creating beautiful, welcoming, cost-conscious facilities for patients and staff. The lean, efficient model for the developer-driven project fit within a tight footprint; Phase 1 is a five-story, 133,900 GSF facility and 470-space parking deck as part of the overall masterplan for the site.

LS3P designed the MOB core and shell for Healthcare Trust of America as a CM@Risk project, and completed the CON for the fifth-floor ASC. LS3P also provide tenant upfits for Wake Med, including the 15,000 SF four OR ambulatory surgery center, clinical spaces for cardiology, imaging, pharmacy, general surgery, vascular, thoracic, urology, urogynecology, OB/GYN, and maternal fetal medicine. The efficiency of the design represents the need for the high throughput required for the business model.

The interior design strategy worked within the client's systemwide standards but created an aesthetic that speaks to the high quality of care being provided while feeling comfortable and welcoming.

The project required significant expertise with code compliance and very strict exterior design standards in the Town of Cary. LS3P has earned a reputation for being "regulatory wizards" who are adept at creating innovative, collaborative design solutions to regulatory challenges.

DELIVERY METHOD

Construction Manager @ Risk

Bassfield & Gorrie

YEAR COMPLETED

2020

SIZE

MOB 1 - 133,900 SF

COST

$16,331,089 Core & Shell

$9,400,00 Fitups Level 1-4

$4,700,000 ASC Level

Total: $30,400,000

CLIENT CONTACT

Thomas G. Cavendar PE

VP, facilities & Construction || WakeMed Health & hospitals

tcavender@wakemed.org

919-350-8938

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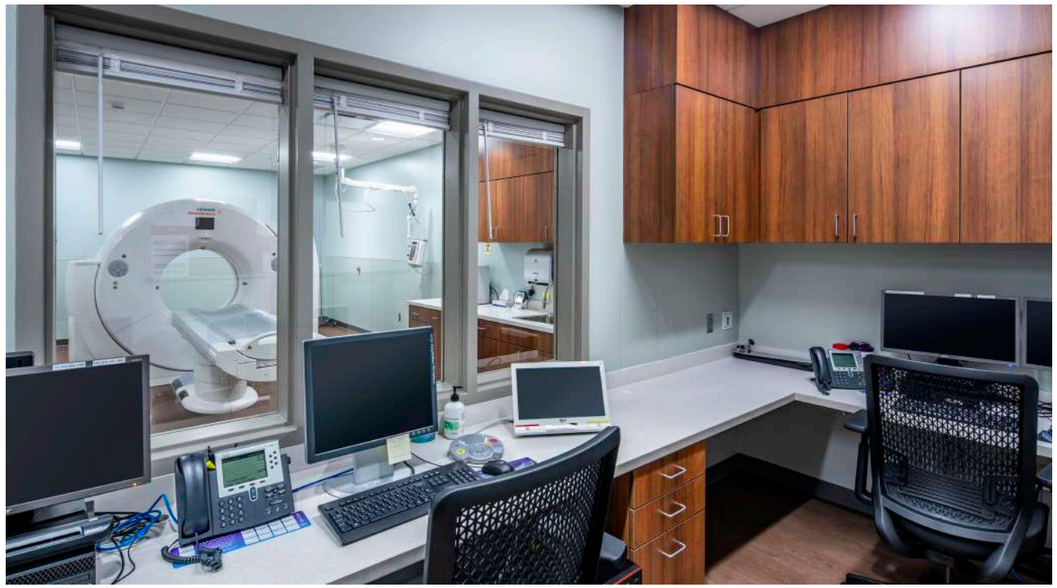
UNC HEALTHCARE
PANTHER CREEK MOB + ASC

Cary, NC



LS3P provided master planning, architectural, interior design and engineering services for this multispecialty 99,900 SF medical office building and orthopaedic surgery center. The facility provides clinical space for family medicine, pediatrics, OB/GYN, orthopedics, internal medicine, nuclear medicine, neurology, digestive health, and heart and vascular care. Clinics on the upper floors provide services in a collaborative model with centralized patient check-in and staff support spaces. Clinic layouts are based on lean design principles, with dual-entry exam rooms and care team work areas separated from patient areas. The facility also includes an imaging center which offers CT, MRI, mammography, ultrasound, bone densitometry, and X-ray.

The Orthopaedic Surgery Center of Panther Creek, a joint venture between a large hospital system and a leading private orthopedic practice group, includes one operating room and two procedure rooms, 13 universal prep/recovery rooms, and a dedicated sterile processing department in a footprint designed to accommodate expansion.

This complex project was completed within a 16-month construction period using concrete tilt-up construction.

DELIVERY METHOD

Design Bid

DCI as Program Manager

DPR Construction as General Contractor

YEAR COMPLETED

2019

SIZE

99,900 SF

COST

$33,000,000

OWNER CONTACT

Simon George, Vice President

UNC Health Care

984-9745388

Simon.george@unchealth.unc.edu

LS3P

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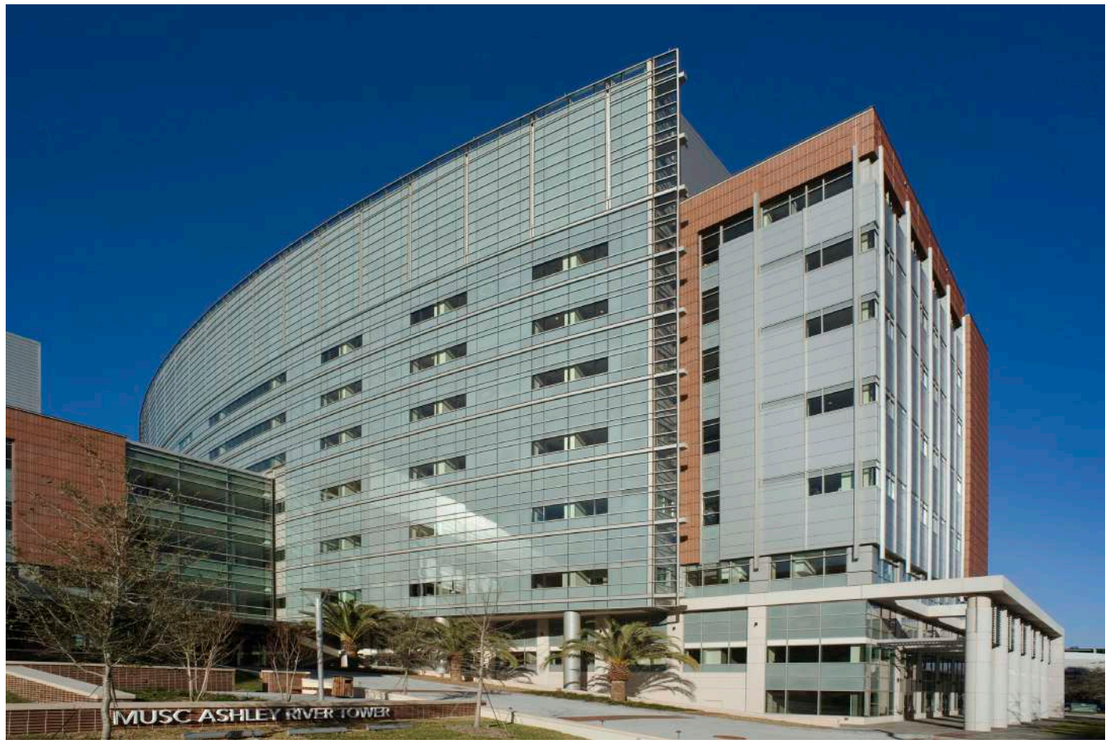
MUSC
ASHLEY RIVER TOWER
Charleston, SC



YEAR COMPLETED

2008

SERVICES

Architecture, Planning, Interiors

SIZE

575,000 SF

ASSOCIATE ARCHITECT

NBBJ

The design for this heart- and digestive disease-focused patient tower was driven by innovation, flexibility, resiliency, and the patient experience. The hallmark of the project is a light-filled indoor atrium and conservatory garden; following the building's opening, MUSC's patient satisfaction scores increased 14% and the average length of stay was reduced from 5.32 to 5.16 days. A universal patient room model and standardized operating room supports better operational efficiency and safety, and the welcoming, inviting spaces borrow from hospitality design elements to minimize patient and family stress and encourage faster healing.

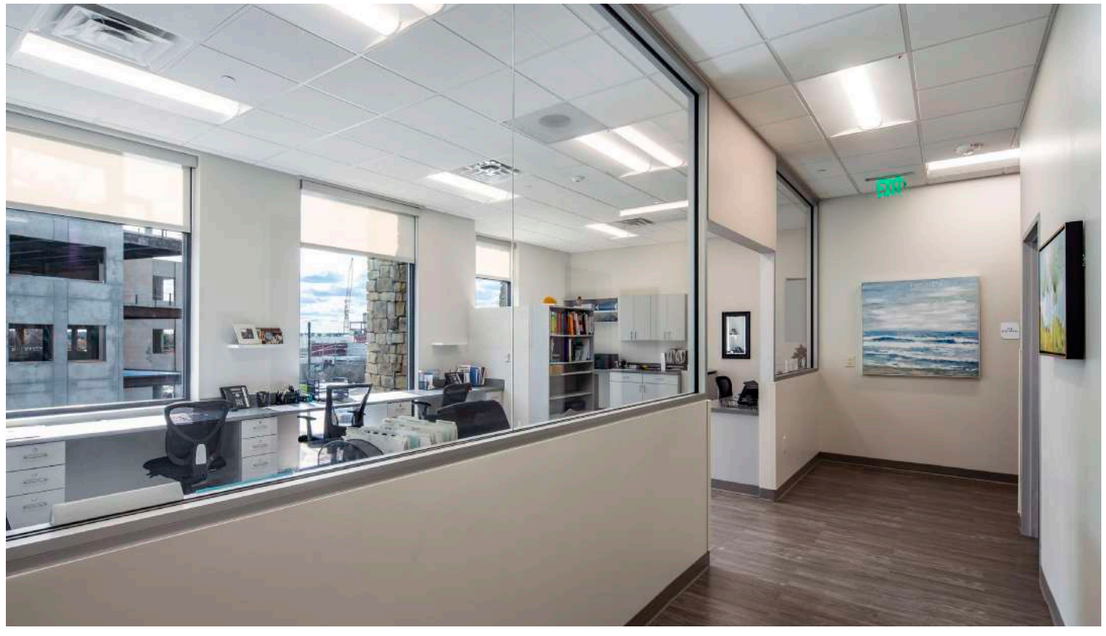
Resilient design strategies were critical to maintaining operations during emergencies for this coastal hospital in an area prone to high wind, flooding, and earthquakes. The exterior is designed to withstand windborne debris; mechanical and electrical systems feature custom-detailed coiled wires and pipes to safeguard air and energy supplies in the event of earth shaking. Safety equipment is elevated, and the entrances are protected by floodgates.

LS3P participated in programming and master planning process, and then took on the lead role of planning, medical planning, and design documentation and construction administration for the interior of the hospital and the ground floor service level. Design Architect NBBJ had the lead focus on the exterior design, interior design, and the conservatory space.

LS3P

LS3P

HEALTHPARK AT KILDAIRE
MEDICAL OFFICE BUILDINGS
Cary, NC



This project includes the design of 150,000 SF of medical office buildings with parking decks for 700 cars, which share the site with a continuing care retirement community, located in Cary, North Carolina. LS3P's services include programming and design for the buildings and interior.

The program includes spaces for Orthopaedics, ENT, Urology, General & Peds Surgery, Maternal Fetal Medicine, Primary Care, Cardiology, Timeshare, Pediatrics/Peds GI/Peds Endo, OB/GYN, Urgent Care, **Physical Therapy, Rehab**, also Imaging and Cardiology Testing.

YEAR COMPLETED

2019

DELIVERY METHOD

Negotiated GC

SIZE

MOB 1 - 90,000 SF;

MOB 2 - 60,000 SF

450 car and 250 car parking decks