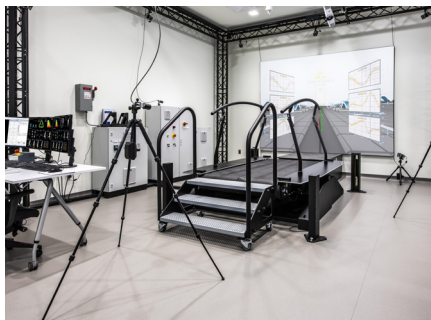


INITIAL STATE

This project started with the Robotics Lab slated for the 6th floor, but given the building movement and the equipment sensitivity it was decided to move this lab to the basement. Researchers and surgical teams worked together to realize their vision; the central zone was adapted for surgical training, cold storage equipment was located in adjacent spaces, and labs were created. Our design helped fully realize the larger 'Musculoskeletal Institute' intent.

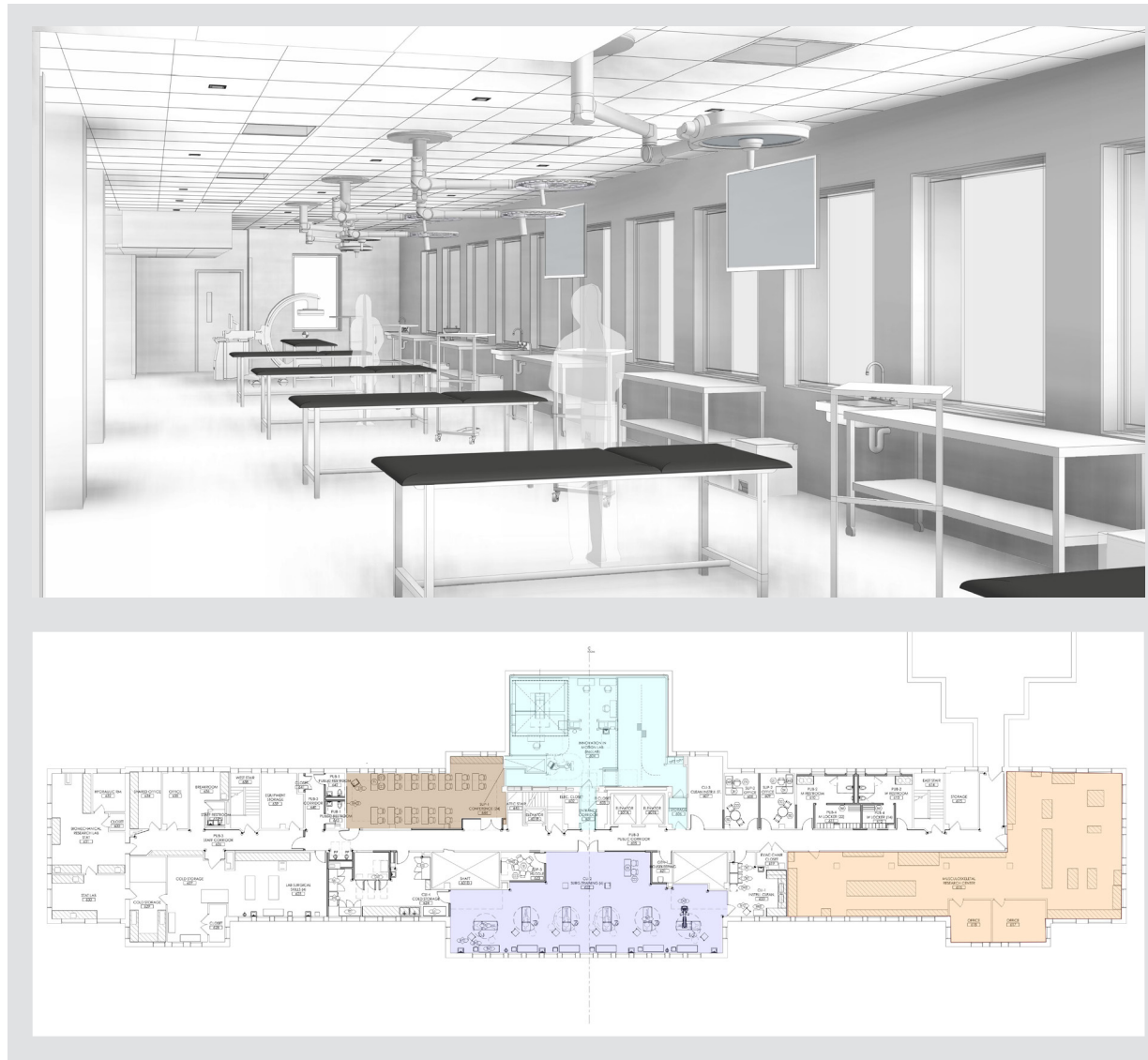
TARGET STATE

The entrance elevators open to a glazed branding wall alluding to the surgical training activity beyond. The glazing is filmed to obscure activity appropriately while satisfying the client's desire to celebrate this zone. We paired Outpatient FGI requirements with MedStar standards and planned the central surgical training zone, including (6) surgical training zones with overhead surgical light booms. We wanted to also take advantage of the expansive natural light from the many windows. The ceiling grid was lowered in two places and we had to work around low mechanical ductwork travelling from lower floors. The entrances to both the IMoLAB and the Surginal Training Suite are axially aligned to reinforce the direct relationship between research, training and patient ambulatory results.



GAP ANALYSIS

Patients and clinical staff no longer need to be spread out over several buildings and floors. Their focused collaboration can now occur over one floor in the 33rd Street Professional Building. State of the art equipment, and organized support spaces facilitate research and development seamlessly.



INSIGHTS AND CHALLENGES

Sometimes the client wants to use a spare wall to store equipment and furniture, when that wall is better suited to branding and creating a sense of arrival. We worked with MedStar to free up space to create an event registration area for visiting surgeons, academics and researchers.

IMPROVEMENT CYCLE

We worked closely with the Principal Researchers for the IMoLAB, and the Musculoskeletal Research Suite. We have collaborated on the Surgical Training Suite and the Conference area with the research team.

It would be ideal to do a post occupancy analysis for this project.

THE WHY

This holistic approach serves both the patient and surgical team. Spinal surgeons collaborate with The Musculoskeletal Center researchers to test the mechanical results of spinal reconstructive surgery, biomechanical fixation', and other surgical techniques. These same surgeons can implement and test their surgical reconstructions and techniques in the Surgical Training Suite. Recovering surgical patients have their gait and motion measured and captured in the IMoLAB. Finally, research findings are shared in the Conference Suite.

SOLUTION APPROACH

The Musculoskeletal Institute is phase 3 of a multi-year greater vision for the 6th floor of the 33rd Street MUMH Professional Building focused on gait, motion, orthopedic surgical research, and surgical training. Surgeons, researchers, and academics will gather in the new conference suite to showcase and share MedStar's research, thought leadership, and expertise.