Major Capital Construction
Construction Project Management

HPC Hospital Simulation Lab

WesternU
Added Value

This presentation highlights specialized upgrades to Capital Planning & Construction that WesternU brings to our esteemed stakeholders for added value.

All topics identified herein were made possible from specific intervention and negotiations courtesy of our University Construction Project Manager for maximum benefit of space,
Otherwise, these detailed benefits would not have been included as part of this project.

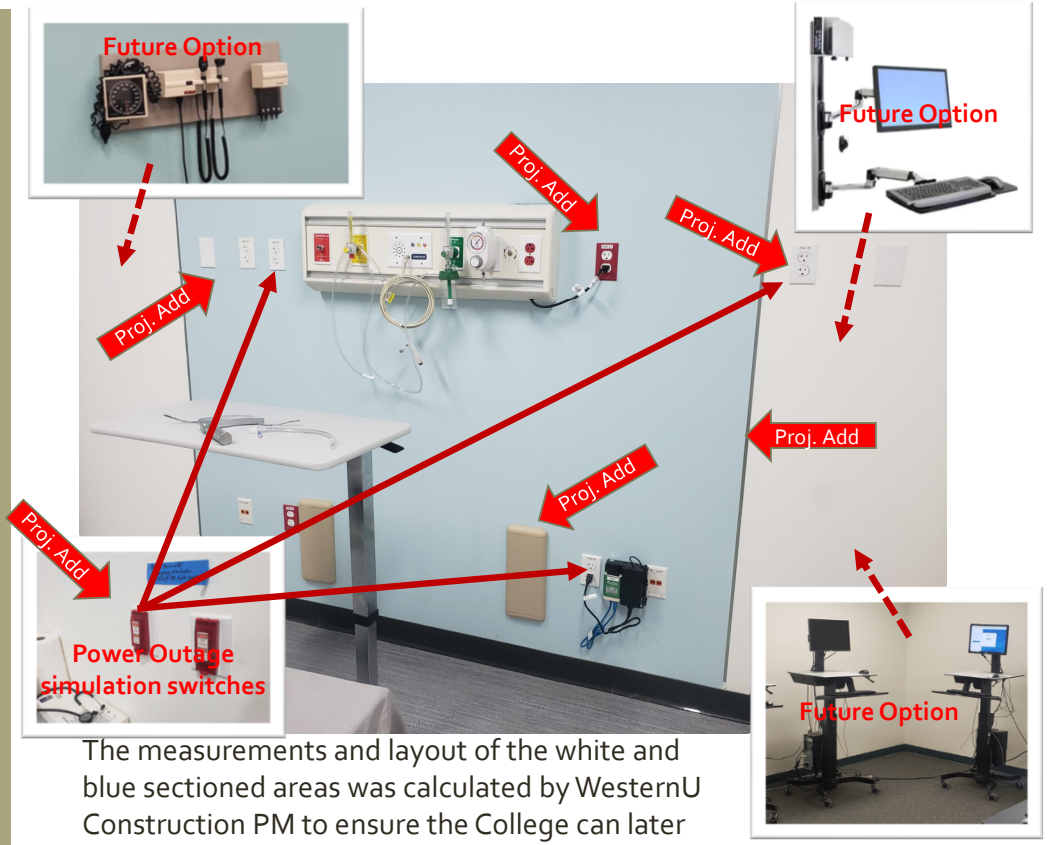
Details for Success

Patient Rooms

The Patient rooms were very simplistic design with no true similarity to Hospitals due to the "simulation". The Architect thus scaled back efforts to mimic actual environment since it was a "fake" Hospital.

WesternU Construction Project Mgr. stepped-in to improve the layout & Operation by directing the following "Project Add" items:

- Power & data were directed to be placed on the headwall as appropriate of Hospital room.
- Outlets were coordinated to be strategically placed for air compressor need and also for simulation headboard power.
- Aluminum wall channels/reveals were requested to improve aesthetic of Two-tone paint transition vs simple paint merge.
- Architect was going to place "Fake" non powered red emergency outlets. This was rejected, and turned into room outlet and light fixture power outage simulation with simulated E-Power outlets with help from the General Contractor at 1 patient room.
- Bed bumper guards were directed to be placed in all patient rooms headwall to protect from wall damage.



The measurements and layout of the white and blue sectioned areas was calculated by WesternU Construction PM to ensure the College can later mount other patient room wall components as currently used in the CSL area and actual Hospital settings. This includes potential wall mounted Ergotron LX wall system if desired.

Details for Success

Wall Rails & Corner Guards

The Hospital simulation suite was initially designed with no wall rails nor corner guards since it was a "fake" hospital per Architect.

WesternU's Construction PM negotiated with the General Contractor to add these items at no additional cost and absorbed into existing budget through the equipment stipend negotiated.

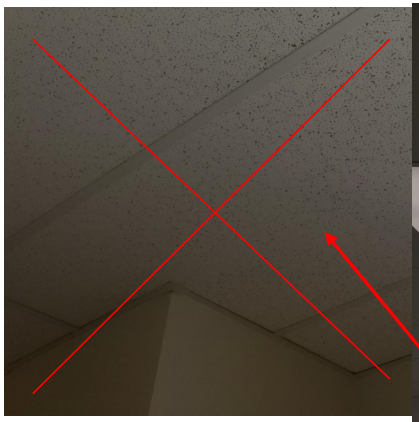
Further agreements were made to have these items be self-performed rather than subcontractor additional cost for install, and negate additional installation costs.

Details for Success

O.R. aesthetics

The O.R. was initially designed with typical commercial office components. WesternU's Construction Project Manager, directed changes to improve the functionality of the space that were not part of original design.

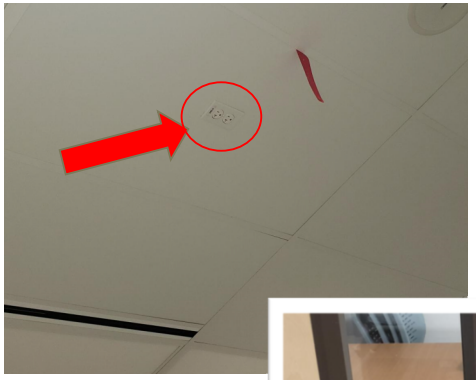
- Power & data were directed to be installed in specific locations as per most Hospital O.R. layouts.
- Architect was going to place "Fake" non powered red emergency outlets. This was rejected, and turned into functional emergency simulation power outage with coordinated help from the General Contractor.
- Ceiling tiles were directed to be replaced to more appropriate clean-room style and not standard office ceiling tiles.
- Ceiling light arrangement was directed to be redesigned to proper O.R. box layout.
- HVAC registers were directed to be replaced with correct slat design units instead of typical office square units.

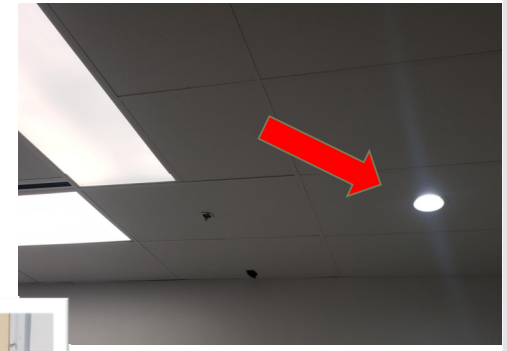


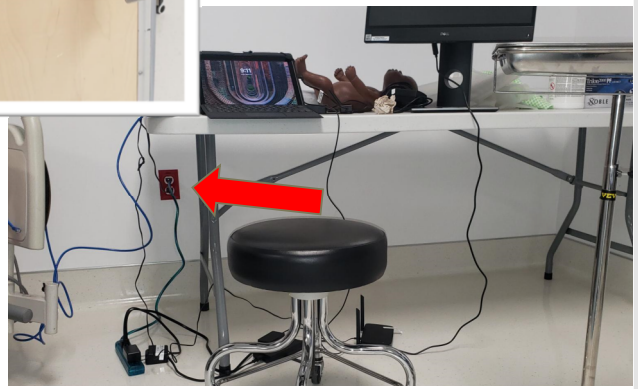
Details for Success

O.R. aesthetics (Continued)

- O.R. ceiling outlet was requested for any future floor mounted surgery light so keep chord away from floor trip hazards.
- Downlight was requested at nurse station per most actual O.R. layouts.
- Outlet was added to back wall where Crash-carts can reside.
- Door handle operator was directed to be replaced from normal handle to proper Hospital style handle.
- WesternU's Construction Proj. Mgr. was able to source and have installed a simulated medical gas shut-off box from existing budget provided, and place outside of O.R. for more realistic presentation an additional training opportunity if curriculum desires Medgas shut-off experience situation.







Details for Success

General

A local **custodial room** for servicing was missing for operations needs. This oversight was directed by WesternU Construction PM to be added at no additional cost impact to the end user and paid from the stipend within the original contact sum.

A **pass-thru deliveries door** was directed to be added to facilitate freight elevator deliveries without having to go though CSL area or long travel around to main stair lobby for operating workflow strategy.

VR Room Box Speaker, was instructed to field customized high shelf to raise and leave floor area clear for better area use.

Details for Success

Fixture Standard with Aesthetic & Function

Aesthetics & blending. The new installed Architectural 2x4 took 3- months of research for best performance and cost saving features. The chosen Architectural troffer matches the Aesthetics of current LED retrofit kits previously used throughout campus for blended look.

Color Changing Troffer (CCT) Fixture was necessary due to desire to change color temperature from cool bright or warm dim feature at 4000K and 3000K temperature.

This CCT has been more frequently requested by colleges but was only available with our flat panel lights via manual switch on a ladder at each fixture, and extra time needed from our facilities staff to physically make the change.

Overall Master change is now possible with this new 2x4 troffer when paired with Lutron hardware via centralized hub.
This feature is currently reserved for classrooms and large occupancy group meeting areas (non-lab spaces). This feature is only available to Facilities & Construction teams access at this time to avoid constant changes by end users.

Cooper Troffer Fixt.
Color Change Electronic App

Retrofit Troffer Fixt.
From Fluorescent upgrade.
No Color Change

Lithonia Flat LED
Color Change manual switch

We hope the College is elated with their new space…
and its custom features not typically found at other SimLabs.

We are delighted to have contributed to the mission
to educate our new upcoming medical professionals.

Thank you kindly

Major Capital Construction Project Manager