

# University Medical Center New Orleans, Louisiana



**FEBRUARY 6, 2014**



# Project Administration

## OWNER

**The State of Louisiana**  
**Division of Administration**  
**(FP&C) Facility Planning &**  
**Control**

## SPEAKER BIO

**Thomas W. Rish, Architect**  
**Registered in LA, MO**  
**37 years as Architect**  
**Project Director**  
**Facility Planning & Control**

## SPECIALIZATIONS

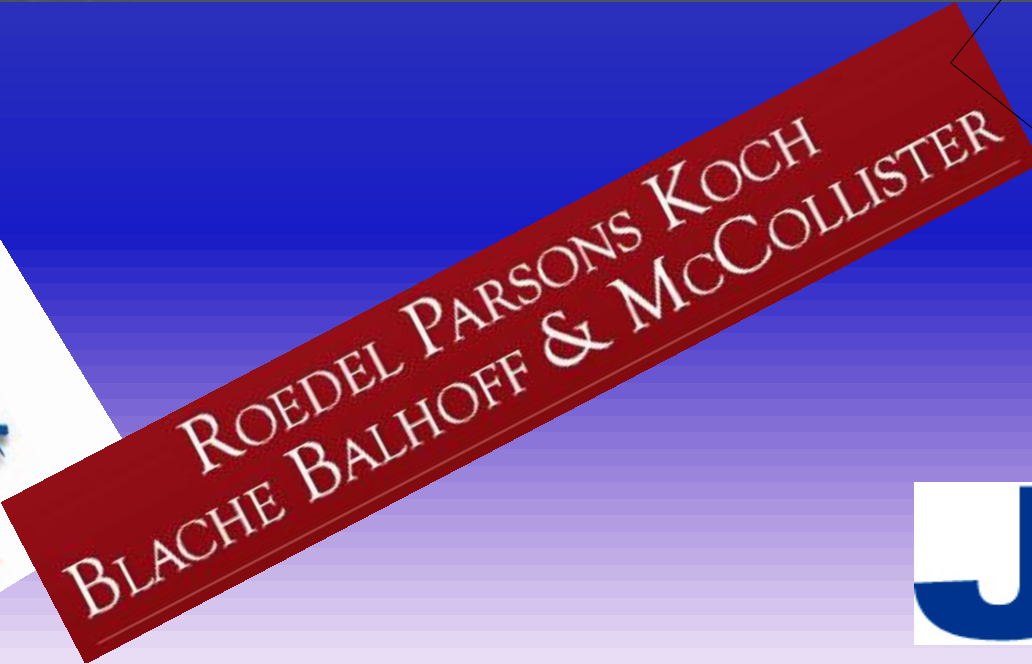
**Healthcare**  
**Education**



# Project Team



Office of Facility Planning and Control



Engineering, Planning and Environmental Consulting





**SEPTEMBER 5, 2005**



**Katrina did not make the decision to replace  
Charity Hospital but, she did provide a timeline.**

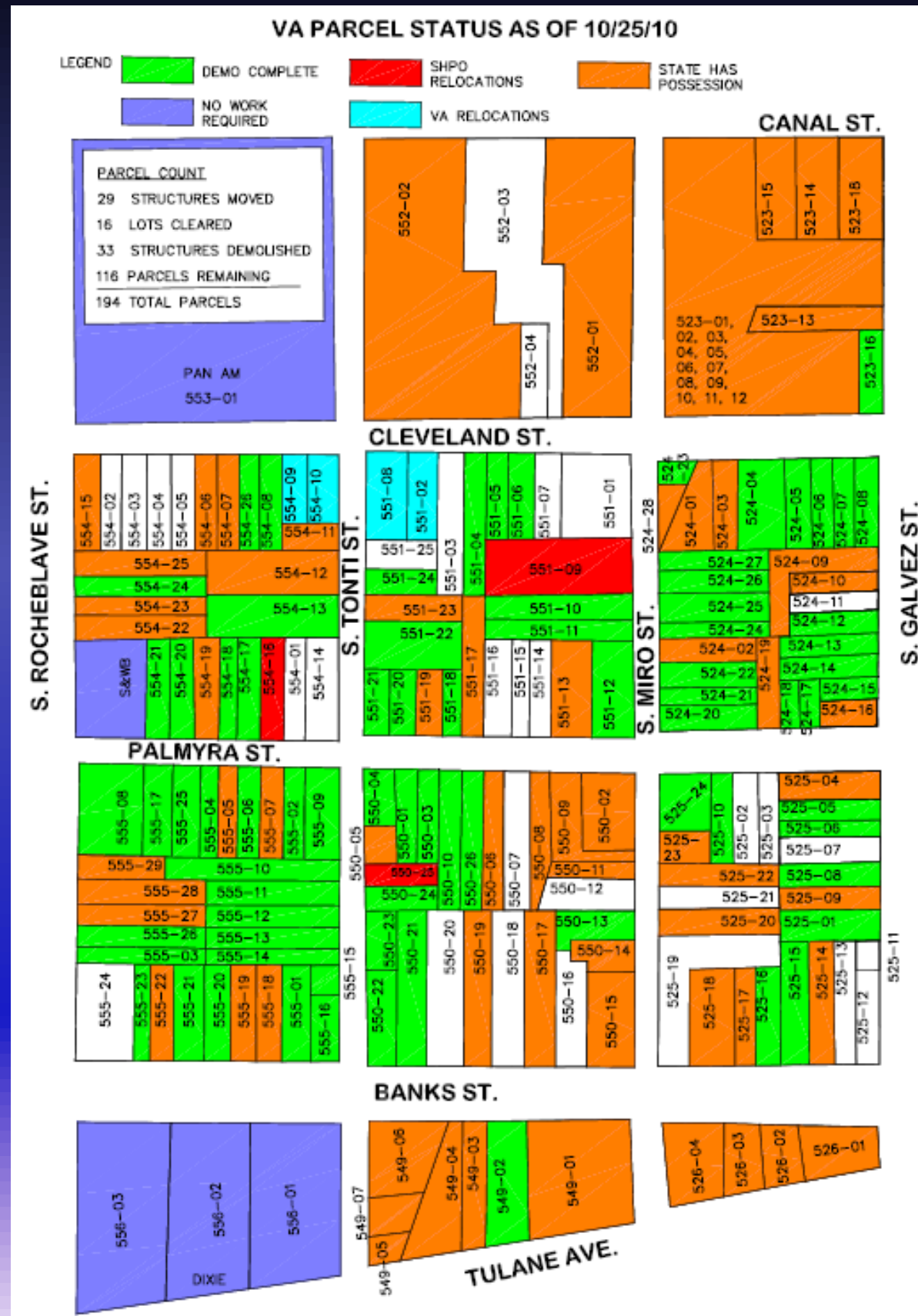


# Pre Acquisition & Demolition





# VA Medical Center Parcel Map



## Factoids:

30 Acres

194 Parcels

23 Months for Acquisition, Demolition, Clearing and Transfer





# University Medical Center Parcel Map

## Factoids:

37 Acres

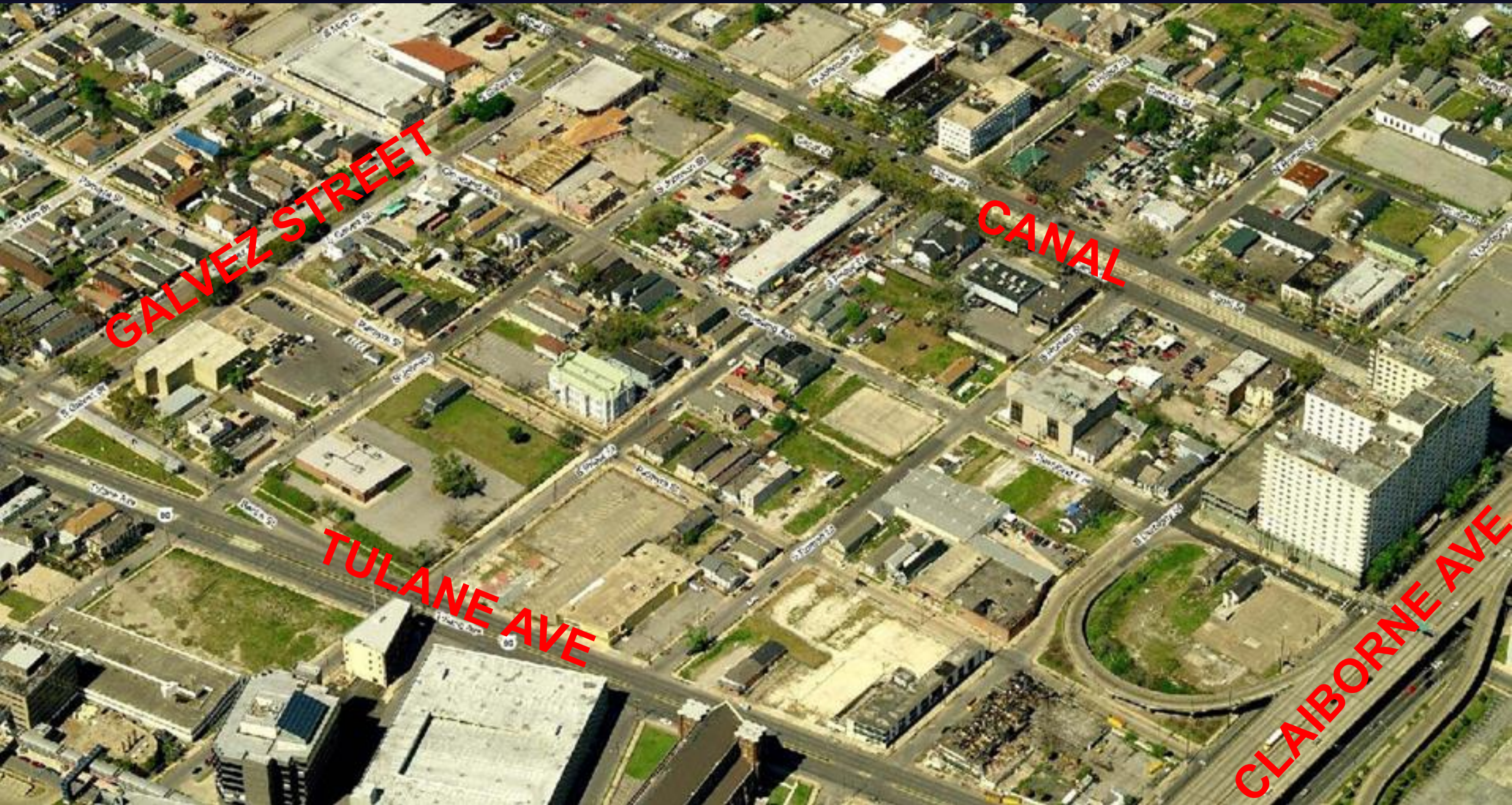
244 Parcels

30 Months for Acquisition, Demolition, Clearing and Transfer





# Aerial View of University Medical Center Site





# Archeological Findings



## Factoids:

Earth Search- Specialty Contractor

Over 900 Boxes of Recorded Artifacts

Photographed & Categorized

Warehoused for later use

Interpretive Display of Artifacts





# Archeological Findings





# Archeological Findings





# Post Acquisition & Demolition



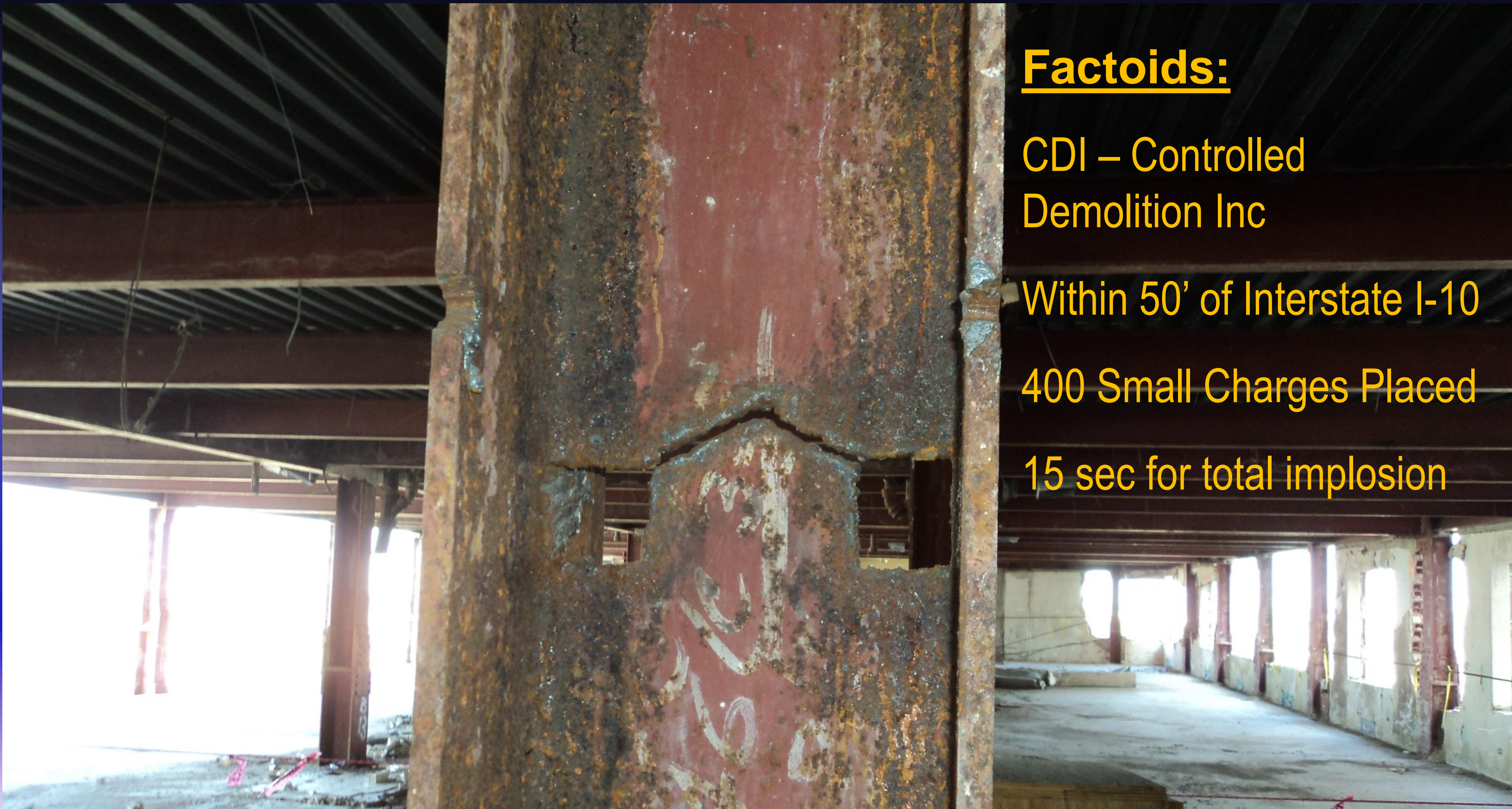


# Selective Demolition





# Pallas Hotel Steel Columns Cut For Blasting Preparation



## Factoids:

CDI – Controlled  
Demolition Inc

Within 50' of Interstate I-10

400 Small Charges Placed

15 sec for total implosion





# Pallas Hotel Tension Cables









# McDonogh No. 11 School Preparation

## Factoids:

1879 Historical Structure

Wood Frame Masonry Constructed on 5' Thick Corbelled Masonry Foundation

Est. Moving Weight 2M Pounds

Actual Moving Weight 3M Pounds





# McDonogh No. 11 School on Dollies





# Removing Unsuitable Soils





# Cypress Tree Stumps Being Removed





# Mandrel Insert Wicks 40' Deep





# Installed Wicks with Drainage Leaders





# Surcharging the Site

## Factoids:

270,000 CY of Sand Hauled In

13,500 Dump Trucks

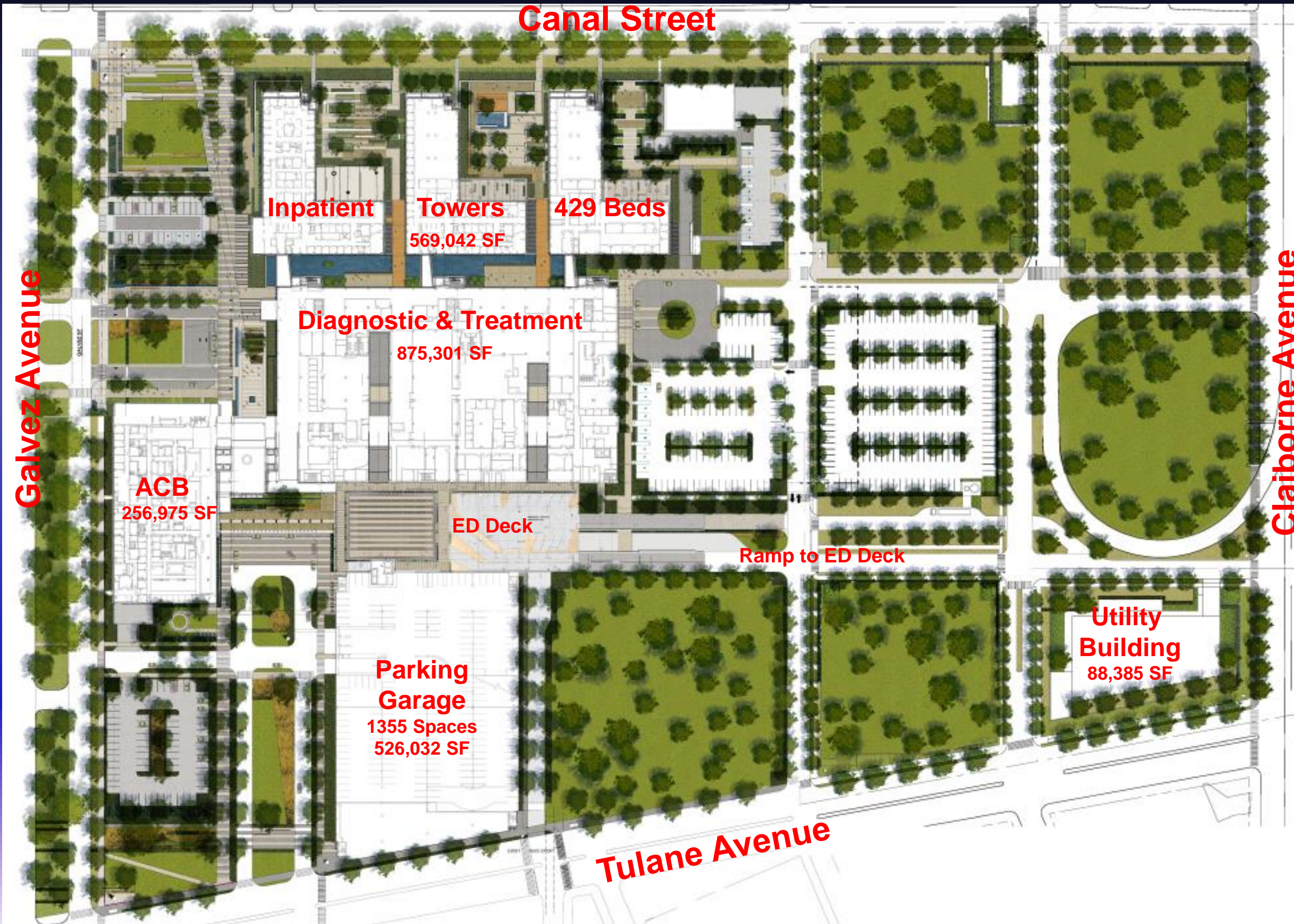
2,468,430 LF of Vertical  
Wick Material Installed

129,302 LF of Horizontal  
Wick Material Installed





# Site Plan



## Factoids:

All critical functions located above the ground floor

Ground floor consist of non-critical functions

Design to maintain hospital operation for 7 days

Total SF 2,315,726





# Current State of Construction – Jan 1, 2014





# What a Difference a Year Makes

DEC 1, 2012

DEC 1, 2013





# FP&C BIM & Prefab

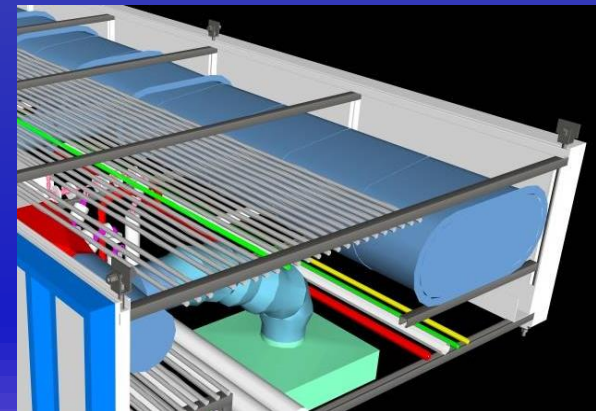
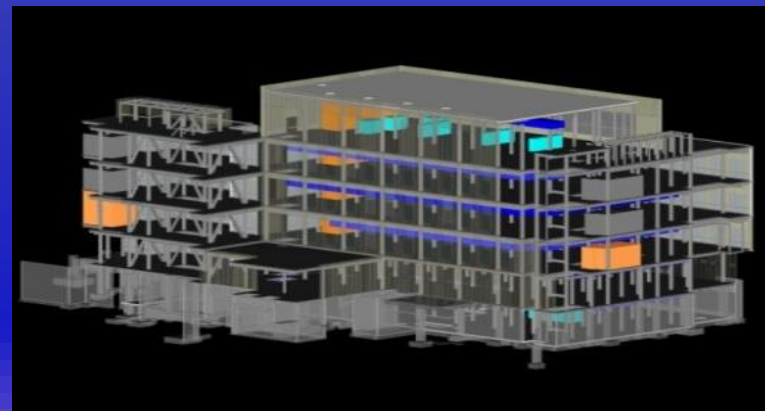
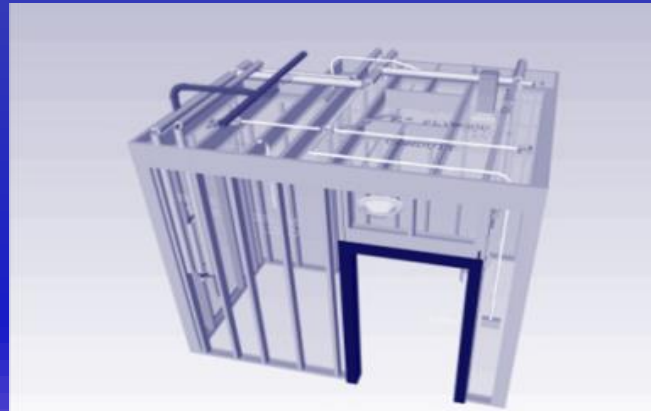
The UMC project is unique in that the 3D model is a project deliverable. Included in the deliverable requirement are embedded data elements and spreadsheets of non-modeled elements that can be incorporated into the Facility Management program. Prefabrication was incorporated into the project to support a construction schedule reduced from 36 to 31 months.





# Why Prefabrication?

- Accelerated Schedule
- Reduced Labor Costs
- Improved Worker Productivity
- Reduced Waste
- Improved Worker Safety
- Better Build Quality
- Improved Maintainability



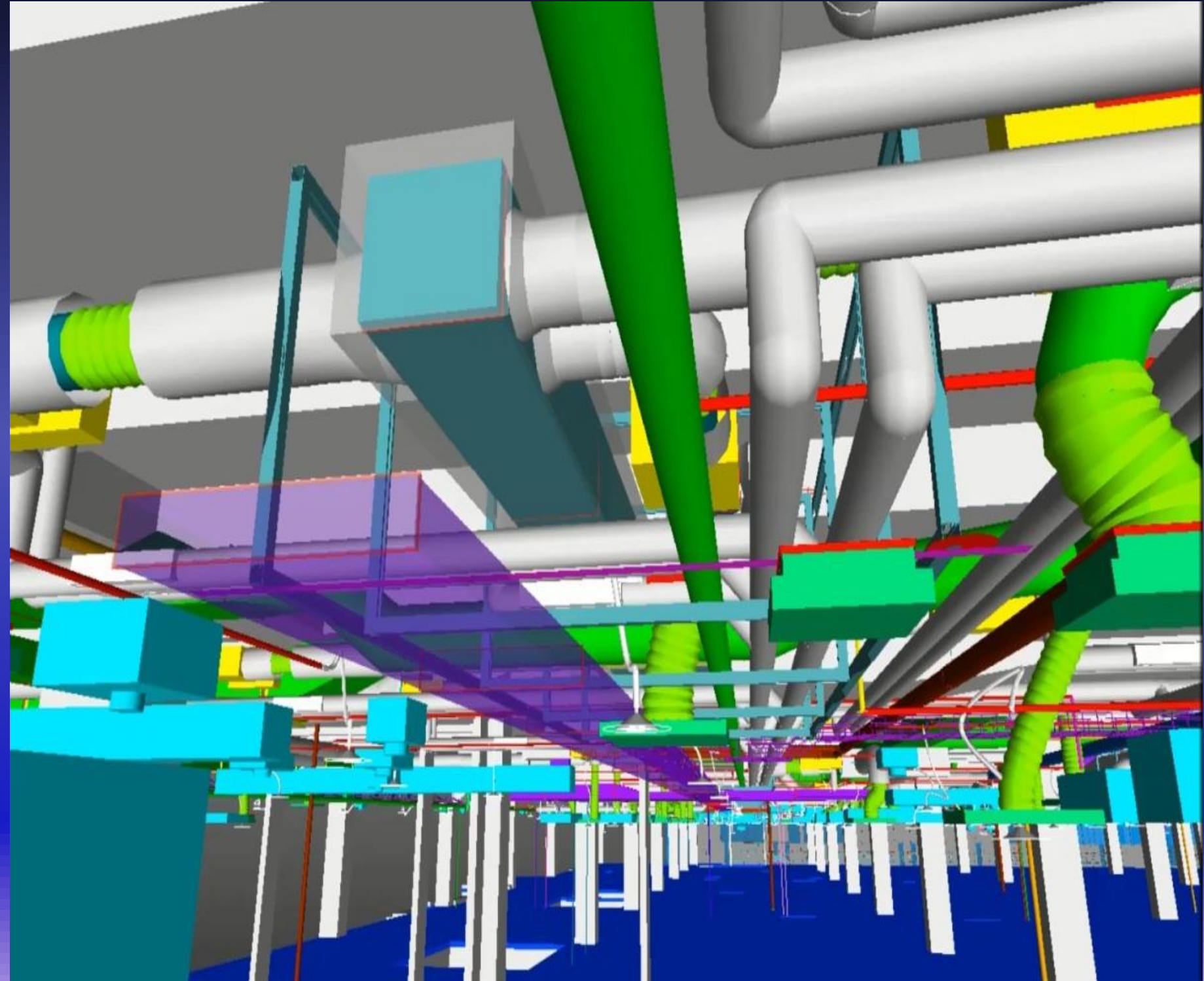
Practice of assembling building components in a factory, warehouse space or a manufacturing site, and transporting complete assemblies or sub-assemblies to the construction site for installation. Primarily focusing MEP Racks, Bathroom Pods, Headwalls, Mechanical Chases, Electrical Rooms, Plant Room Skids.





# Value of the Virtual Build

- Verifies planned elements/systems will fit into provided space
- Identifies conflicts between systems prior to construction
- Mitigates risks to budget and schedule from unforeseen conflicts
- Opportunity to verify adequate maintenance space is provided
- Supports prefabrication resulting in enhanced quality and improved safety





# Off-Site Prefab Facility





# Electronic Documents and Control

Drawing and Specification information is updated one time, in one place, and is accessible to the entire project team.

Subcontractors are provided electronic access to current documents containing RFI hyperlinks and all drawing revisions.

The system provides a document revision history for reference.

**# of Drawings – 8,532**





# First Work Med/ Surge Room – Patient Tower L6





# Patient View From End Of Corridor – Patient Tower L6





# Typical Patient Corridor





# Visitor Waiting In Patient Tower Lobby





# Typical Visitor Elevator Lobby at Patient Towers





# ICU Recovery Room Entrance – Patient Tower L4



2014.02.04 09:33





# ICU Recovery Room – Patient Tower L4



2014.02.04 09:33





# ICU Recovery Room – Patient Tower L4





# ICU Recovery Room – Patient Tower L4



2014.02.04 09:33





# ICU Recovery Room – Patient Tower L4





# Conference Room (Surgery) – D&T L4





# Physician Lounge – D&T L4



2014.02.04 09:39





# Pre/ Post Op Corridor – D&T L4





# Nursing Station in Pre/ Post Opp Suite – D&T L4



2014.02.04 09:40





# Typical Room in Pre/ Post Opp Suite – D&T L4



2014.02.04 09:44





# Typical Room in Pre/ Post Opp Suite – D&T L4



2014.02.04 09:41





# Nurse Alcove In Pre/ Post Opp – D&T L4



2014.02.04 09:43





# OP (Outpatient) OR – D&T L4





# Exam Treatment Area In The ER Dept. – D&T L2



2014.02.04 10:00





# Exam Rooms In ED Area – D&T L2



2014.02.04 10:00





# Completed Exam Room in ER Dept. – D&T L4





# Triage Rooms Off ED Lobby Waiting – D&T L2





# Entry Pavilion Between ACB AND D&T





# Terrazzo Being Installed in ACB L5



2014.01.20 16:13





# Typical Visitor Lobby - ACB



2014.01.20 16:10





# Parking Garage



2014.01.20 16:08





# Entry Pavilion Between ACB And D&T



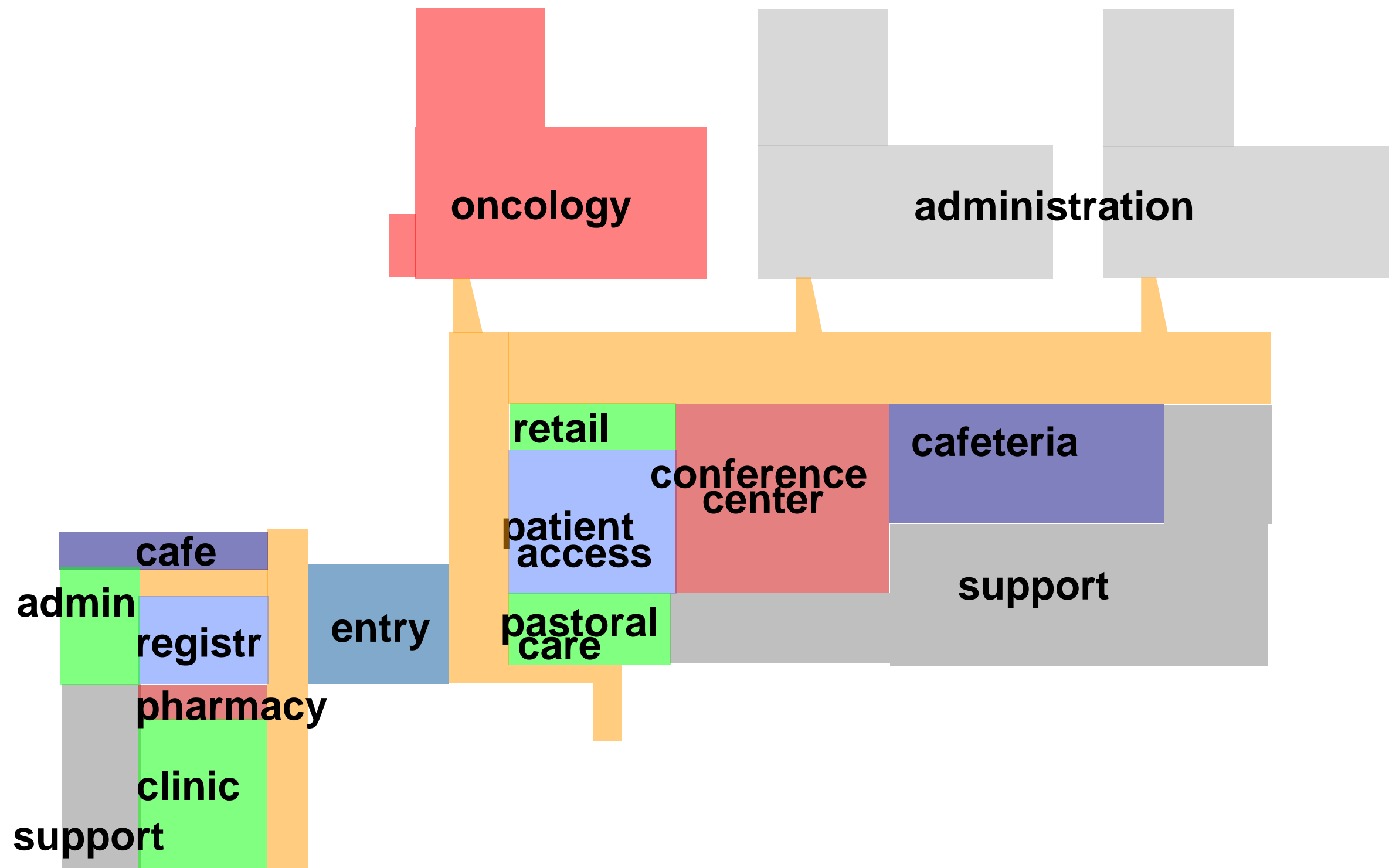


# ED Deck Between D&T and Parking Garage



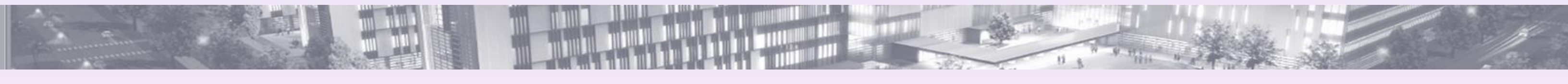
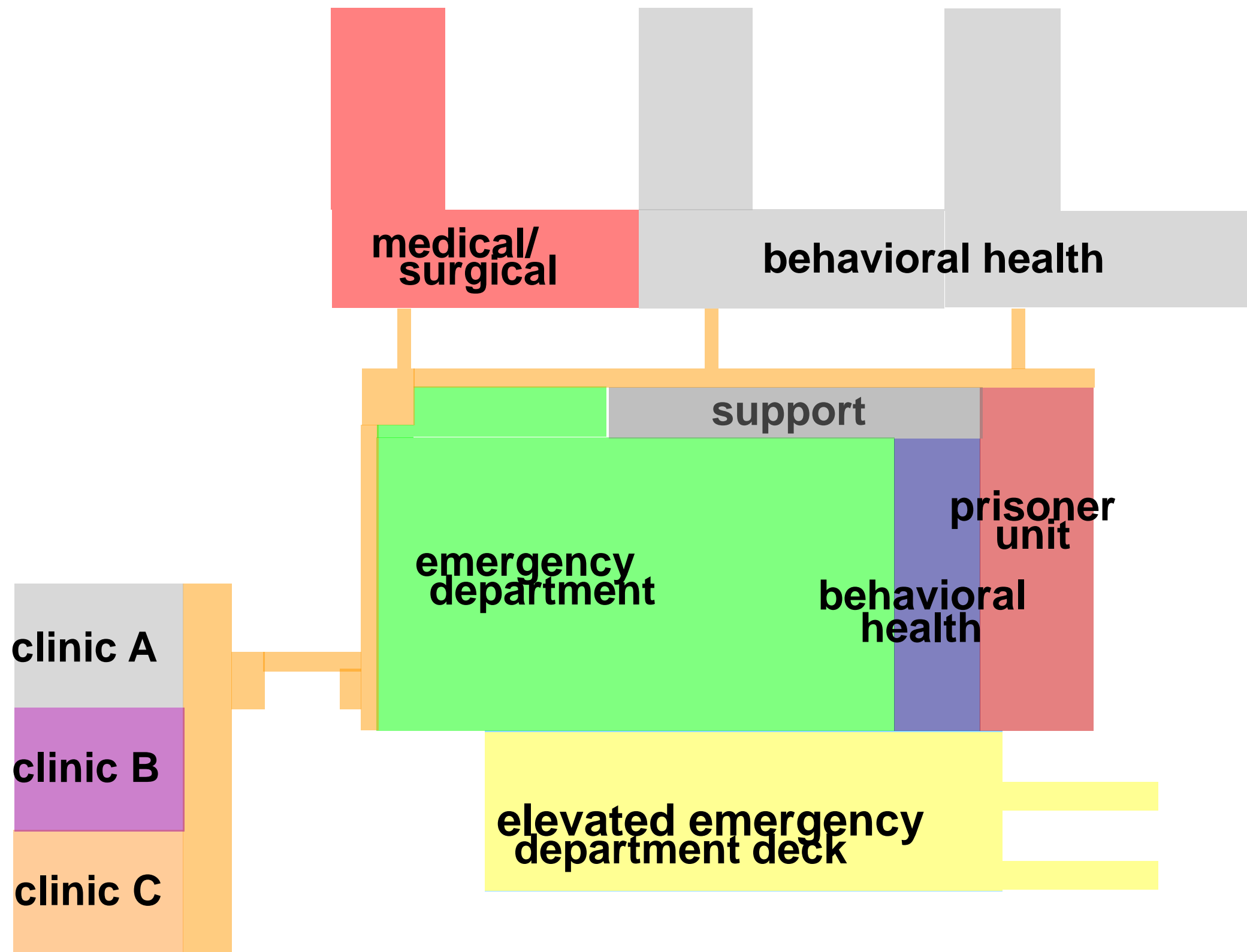


# Level 1 Department Adjacencies



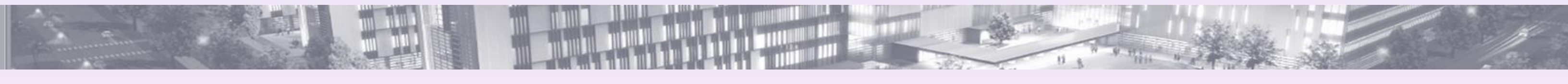
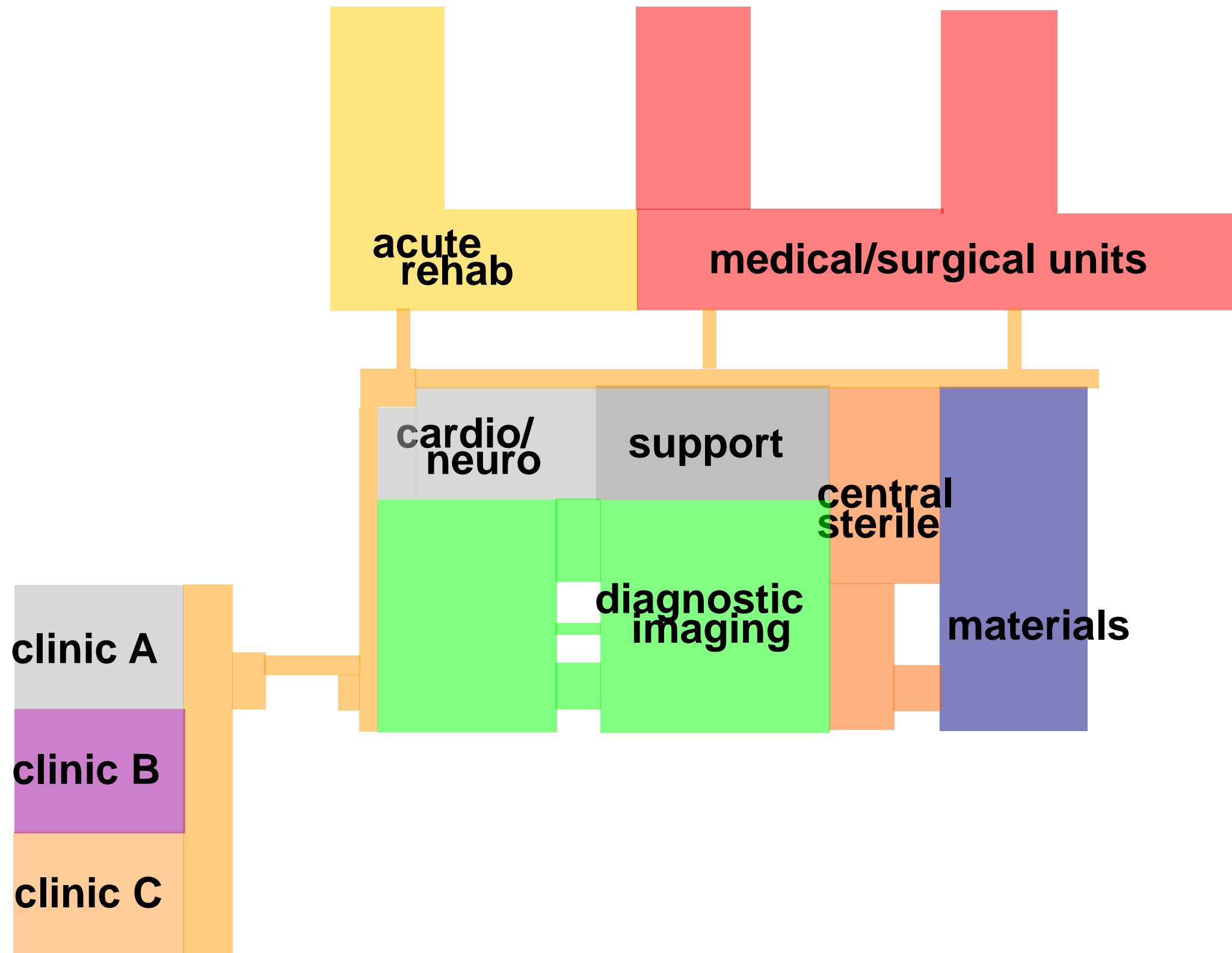


# Level 2 Department Adjacencies



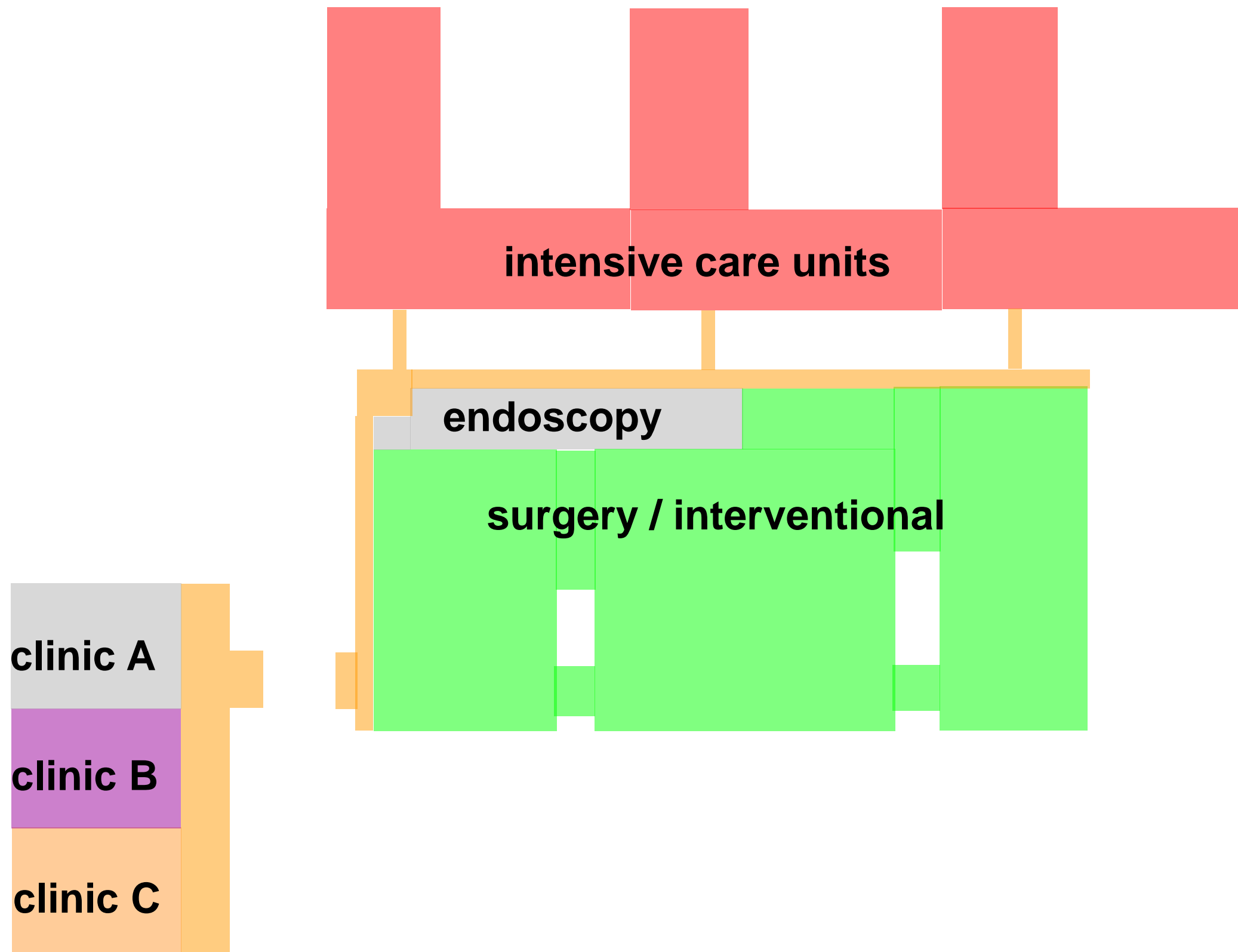


# Level 3 Department Adjacencies



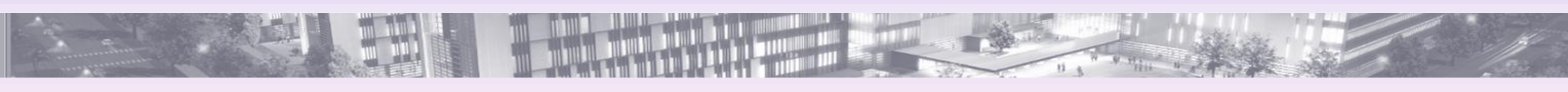
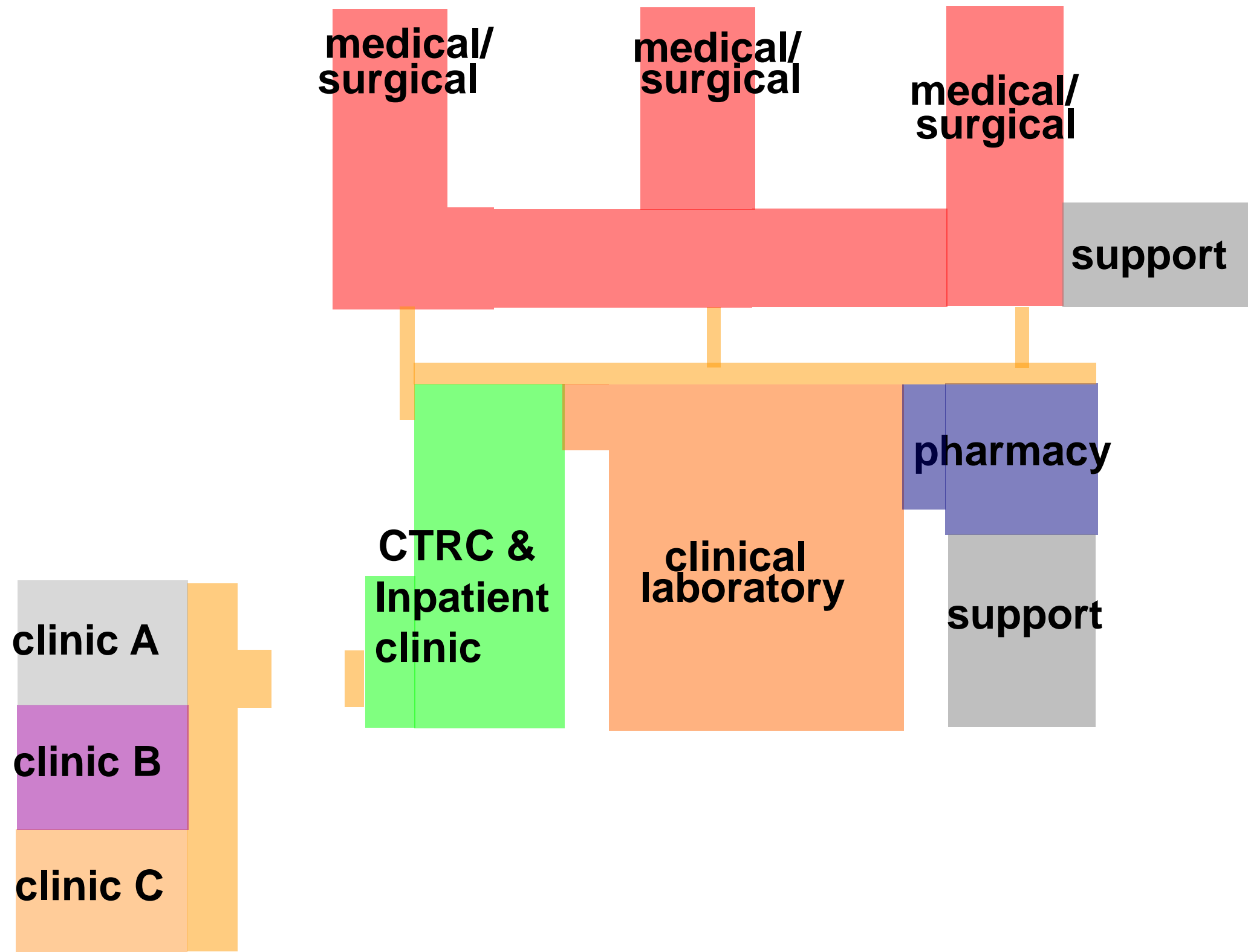


# Level 4 Department Adjacencies





# Level 5 Department Adjacencies





# Level 6 Department Adjacencies

