The New Parkland Hospital
A Project of Firsts
Company Information

- Founded in 1918
- 100% Employee Owned
- 6500 Employee Owners
- 2012 Nations Safest Contractor – AGC National
- Ranked 33rd on ENR’s Top 400 Contractors
Project Information

- Existing Facility built 1954
- Largest Public Hospital in nation being built single-phase
- 2.1 million square feet
- $1.27 billion dollar contract value
- CMR Delivery
- 865 private adult beds
  - (775 + 90 shelled)
- First City of Dallas Prefab Bathroom Project
Project Team

Balfour Beatty Construction

HDR

Corgan

Austin

Russell H.J. Russell & Company

Azteca Enterprises Inc.
What

- 754 Prefabricated Bathrooms
- 10 Prefabricated Bathroom Types
- Turn Key Fabrication “Plug & Play”
  - Everything but the Toilet Paper
- Production Rate: 4 POD’s/Day
  - 8 days start to finish
- Production Duration: 1 year
- Hoisting Window: 1 hour/Day (4 PODs)
What
Why

- Design Highly Repetitive in Nature
- Balfour’s experience with Prefab in Europe
  - Key Project Staff Field Trip to observe processes
- IF executed $$ neutral
  - Improved Safety
  - Improved Quality
  - Improved Efficiency
  - More Schedule Control
  - Waste Reduction
Why Self-Perform vs Third Party

- MEP Trades already under GMP
  - Didn’t want to de-scope
  - Risk of Coordination
    - Change Orders
    - Warranty
- Shipping
  - Local Plant vs Remote Shipping (Risk of Damage)
- Early Material Selections
- Schedule/Delivery Concerns
- Cost
How

- **Buy-In**
  - Owner
  - Architect
  - Engineer
- **Local Authority of Jurisdiction Buy-In**
  - City of Dallas
  - TDSHS – Texas Department of State Health Services
How
How
How - Transportation
How - Transportation
How - Proximity
How - Transportation
How - Hoisting
How - Hoisting
How - Staging
How - Staging
Lessons Learned - Schedule
Lessons Learned - Safety

Safety: Building Site vs Prefab Shop

- First Aids: Building Site 52, Prefab Shop 0
- Recordables: Building Site 47, Prefab Shop 0
- Lost Time: Building Site 0, Prefab Shop 3
- Incident Rate: Building Site 2.1, Prefab Shop 0

Building Site (4,230,000 man hours)
Prefab Shop (275,000 man hours)
Lessons Learned - Quality
What Else

- Patient Room Headwalls
- ED Exam Room Headwalls
- Horizontal Mechanical/Electrical Racks
- Patient Bathrooms
- Zone Wall Box Grouping
- ED Exam Rooms
- On-Call Bathrooms
- OR, Trauma, C-Section Ceilings
Thank You

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