

Integrated Facility Systems™ (IFS)

CASE STUDY • LODGING



Abstract: A major hotel chain purchased Eaton Corporation's space-saving Cutler-Hammer Integrated Facility Systems™ (IFS™) for their newest hotel in Charlotte, a 25-floor, 700 room hotel. By installing IFS, as opposed to conventional electrical room equipment, the hotel was able to take advantage of approximately a 36% reduction in electrical room floor space while the contractor was able to save over 1,600 hours of labor time.

Project Type: New, Large Construction
Construction Cycle Time: 6 Month
IFS Structures: 22
Scope: Replaced Traditional Distribution and Control Package consisting of 66 Panelboards, 22 Transformers, 66 Safety Switches and associated pipe, wire and fittings.

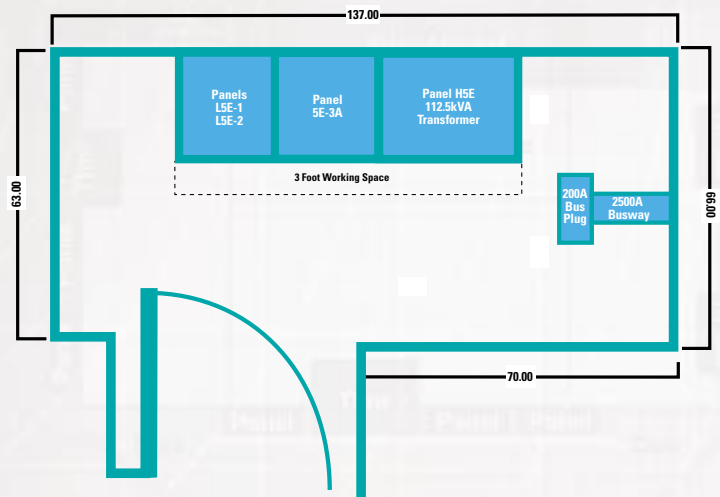
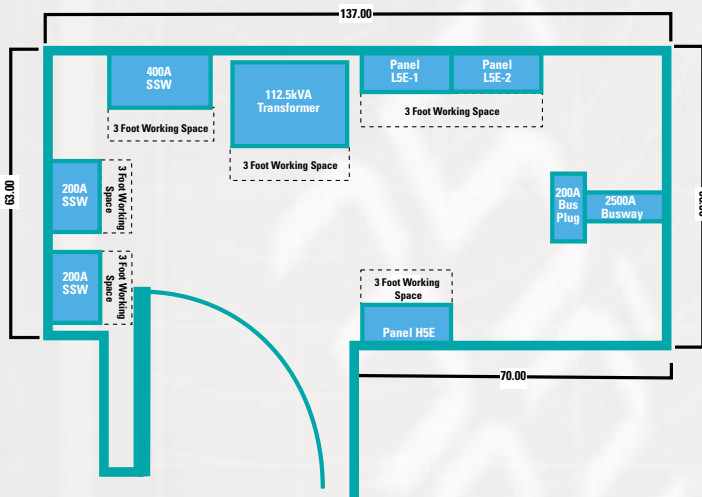


EAT•N

Cutler-Hammer

Conventional Design

IFS™ Design



For Illustration Purposes Only.

	Before IFS	After IFS	IFS™ Switchboard
Floor Space Savings			Space Savings
Room Total Floor Space (Sq. Ft.)	62.79	62.79	
Room Total Floor Space (Cu. Ft.)	627.90	627.90	
Dedicated and Working Space (Sq. Ft.)	45.67	29.17	16.50 Sq. Ft./36.1%
Dedicated and Working Space (Cu. Ft.)	456.60	291.70	164.90 Cu. Ft./36.1%
Labor Cost and Material Savings			Cost Savings
Estimated Labor Cost (Per Room)	\$4,869	\$248	\$4,621/95%
Total Installed Cost (Material and Labor)	\$8,701	\$5,798	\$2,903/67%
Individual Installed Pieces (Per Room)	162 Pieces	2 Pieces	160 Pieces/99%
Estimated Installation Time (Hrs.)	83 Hours	8 Hours	75 Hours
Total Project Savings for 22 Electrical Closets			Total Savings
Labor Savings			\$101,677
Total Installed Cost Savings (Material and Labor)			\$63,866
Reduction in Pieces Handled			3,520 Pieces
Total Hours Saved			1,650 Hours
Dedicated and Working Space (Sq. Ft.)			363 Sq. Ft.
Dedicated and Working Space (Cu. Ft.)			3,627.80 Cu. Ft.