How CADShop Powers Smarter Facilities Operations at United Hospital

- Allina United Hospital digital pathway.
- Lessons learned & best practices.
- Demonstrations and operations case studies.







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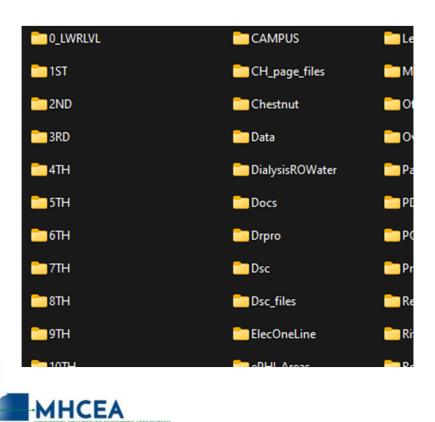
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Digital Pathway

Searching for files in the before times...

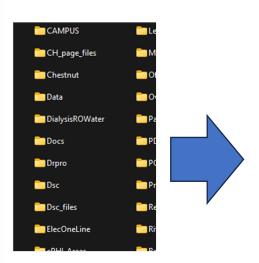




Digital Pathway:

Website Dashboard

- Used by fixed or mobile workstations.
- Must be actively connected to the local network.
- Not accessible to non-Allina users.



Page File Name.htm	Page Function	Page Contains These Links
As-built Site	Area to find old as- builts and scans	All Campus Buildings. This site is organized by Campus
Annex.htm	Semi-inactive page 1-14-19	Abbott, Apple Valley Medical Center, Allina Transportation Road, Gold Ramp, John Nasseff Medical Center & Conf Unity Hospital, 340 Walnut, 380 Chestnut, 277West 7th,
Archibus.htm	Space assignments Inactive	
Cad_shop.htm	Home Page	Go There!
<u>Campus.htm</u>	Campus Maps etc	Asbestos Info, Battery Lights, Chimes & Strobes, Exit Ro Misc, LS Life Safety Drawings, Med-Gas, Overlays, Pain Tunnels, WO system, Voice-Data,
	Ritchie Medical	





Digital Pathway:

PDF Dashboard

- Used by fixed or mobile workstations.
- May be used offline by a mobile workstation.
- Not accessible to non-Allina users.





CAD Shop - United & Children's Hospitals





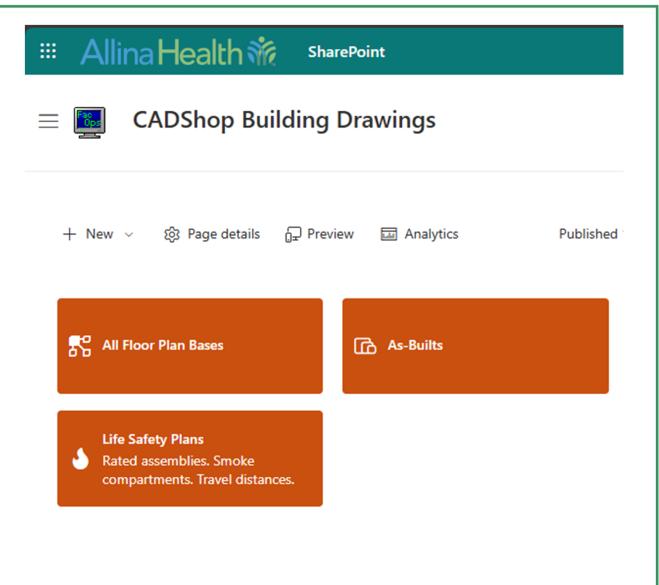
Allina Facility Information (FM Systems - United site)

Tririga Website	AKN	United - AKN	Application Portal	
Activities & Projects	Information	Drawings	Technical Info	
Concur P-Card Reports	Condo Building PO's	Floor & Roof Plans - List View	M.S.D.S - Safety Page	
Lead Meeting Minutes		Floor & Roof Plans - Map View		
	Building Gross Areas & Hospital	As-Built Scans & Files	Tuisiaa	
	Based Clinic Breakdown	Floor Overlays - All Buildings	Tririga	
	Allina Facility Information & Cost	Life Safety + Critical Drawings.	Training: Facilities Team	
	Center / Occupancy Allocations	Exits, Fire/Smoke Ratings.	2025 UI Updat	
		Building - Departments Maps	Form: Asset Update	
	Print / Archive Room Navigation	Campus Maps, Parking Lots, Ramps,		
		Tunnels, & Skyways	Bluebeam Training	
	Elevator Contractor List	Stair, Exterior Door, Elev Numbers	Bidebeam Training	
	Vendor / Supplier Acct Numbers	Medical Gas Locations & Diagrams	0.0-Intro and Install + Setup	
		EVS Drawings & Reports	1.0-Using Webtab & Favorites	
			2.0-CADShop Navigation & Plan Printing	
			3.0-CADShop Bluebeam Dashboa	
QUICK LINK	S - PM Maps	QUICK LIN	IKS - Shop	
Battery Light - PM	Exterior & Parking Light - PM	Electricians	Engineers	
Chimes & Strobes - PM Big Book	Sprinkler Flow & Tamper Zone - PM	I.S. / I.T. / Speakers / Paging	Maintenance	
Chimes & Strobes - PM Monthly	Rated Door BMP Map - PM	Painters	Security / GoPack	
Exit Light - PM		Sign Shop	Surge	
Fire Extinguisher & Zone Valve - PM		Life Safety & Critical Drawing Sets		
Fire Pull & Eye Wash - PM				

Digital Pathway:

SharePoint dashboard

- Used by fixed or mobile workstations.
- Used by mobile device (phone).
- Must be connected to internet.
- May be shared with non-Allina users.







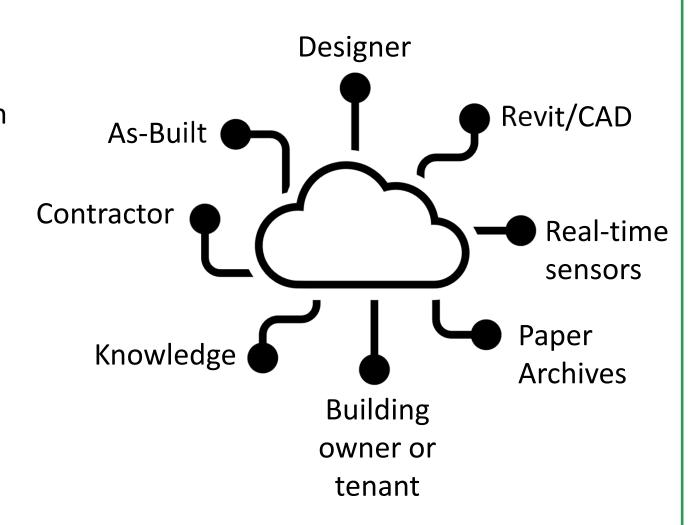


Digital Pathway

Data Best practices

Consider:

- Source of files, file types, file location
 & organization.
- Data collection devices/sensors already in place and automation systems already in use.
- Applications used for file viewing.
- Security and technology policies.
- Who owns & maintains data?

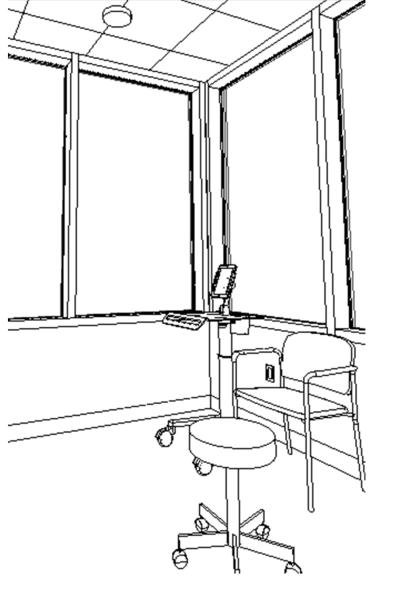




Digital Pathway: Building Digital Twin

- Build
- Implement
- Leverage data







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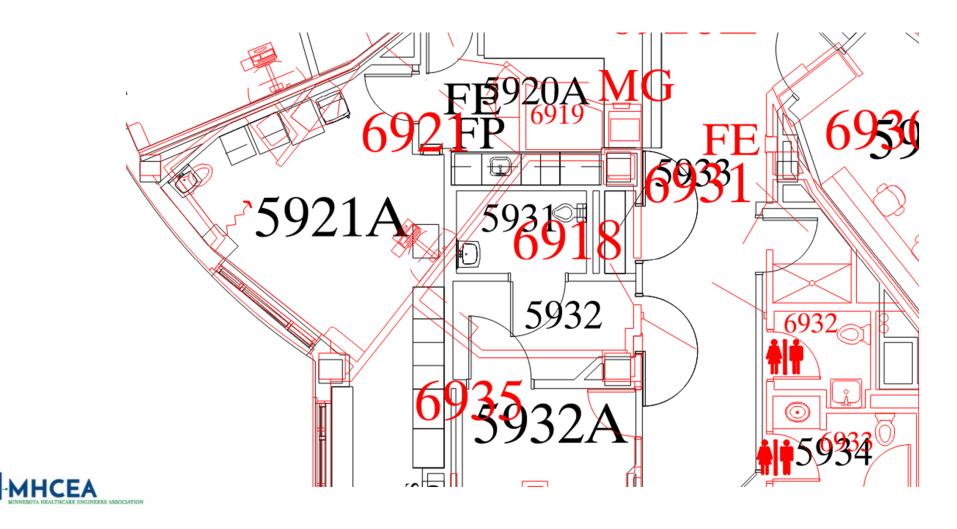




Demonstrations & use cases

- Floor to floor overlay maps
- Specialty operations maps & dashboards
- HVAC Zone map and duct layouts
- Kitchen equipment map with O&M
- Electrical One Line diagram linked to panel schedules
- Life Safety maps navigation
- Contractors discovering zones served by equipment
- SOP creation

Floor to floor overlay maps



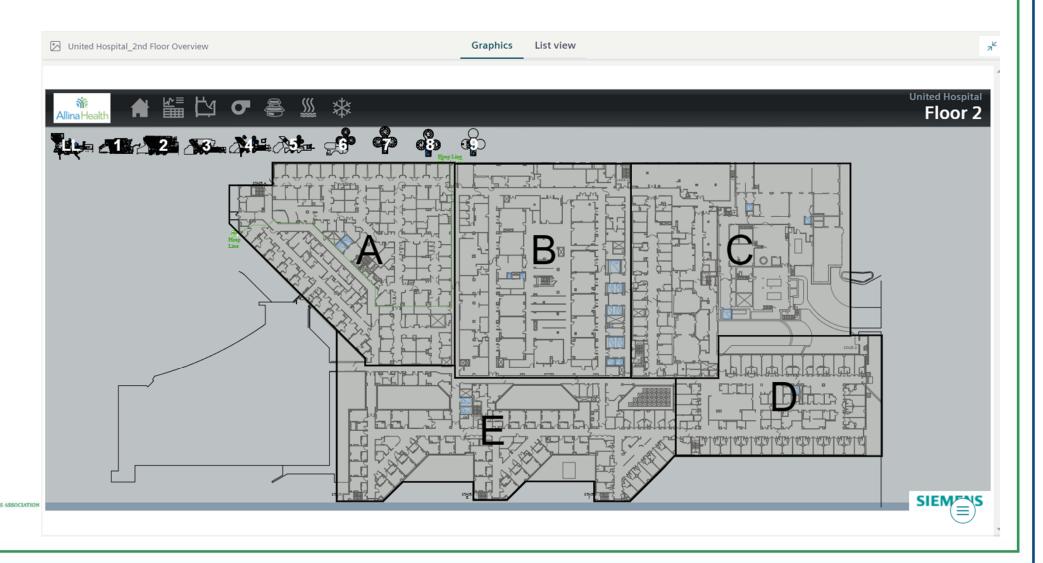
Desigo Building Automation System

- Real-time temperature readouts
- HVAC status

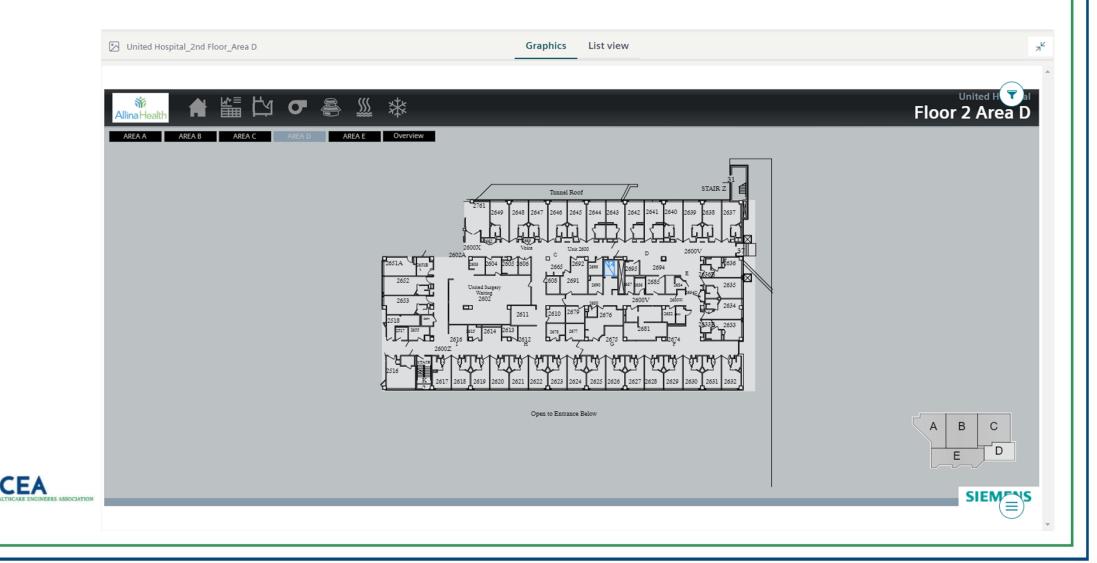




Desigo Overall Floor Plan



Desigo Zone without sensors



Shutdown Planning

- Impacts of plumbing work
- Graphic communications



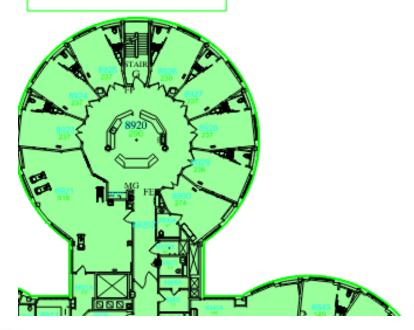


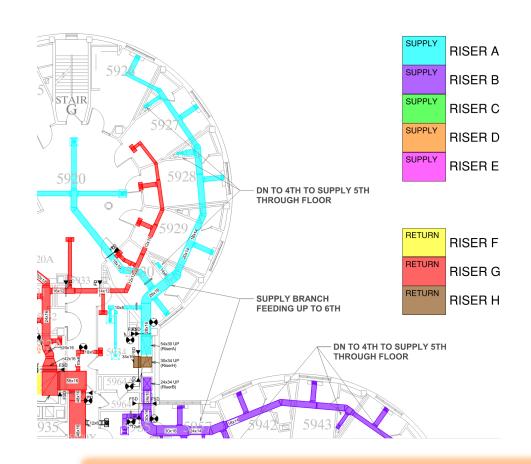
HVAC Zone map and color-coded duct layouts

AHU S-11 on 10th floor off roof #3. Return fan R-11 on 9th floor room 9902.

MHCEA

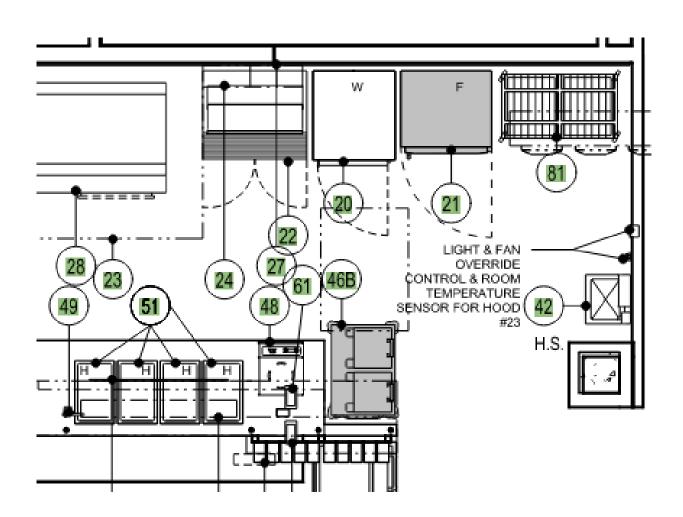






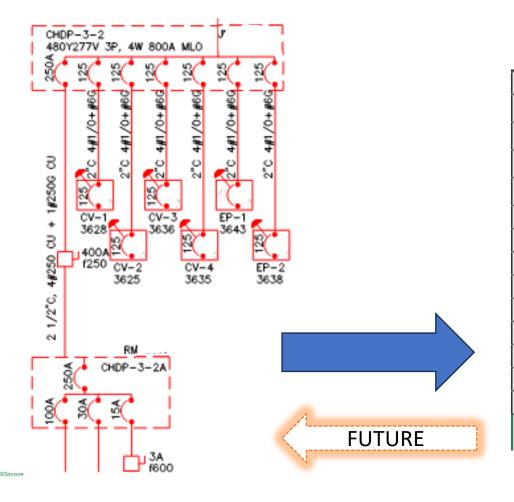
Future development: Interactive roof-top plan. Select HVAC equipment and get a dialog on rooms served.

Interactive as-built map and O&M





Interactive Electrical Schematic



	CHDP-3-2A				
Fed From: CHDP-3-2 IN ROOM					
Voltage: 277V/480V					
Key:		# Existing Circuit Unverified / date			
СКТ	Key	Date	Branch Circuit Description		
1		3.10.17	SIEMENNS EQUIPMENT CABI		
3		3.10.17	SIEMENNS EQUIPMENT CABI		
5		3.10.17	SIEMENNS EQUIPMENT CABI		
7		3.10.17	RECEPTACLE FOLEY OR TABLE		
9		3.10.17	RECEPTACLE FOLEY OR TABLE		
11		5.3.24	SPACE		
13		5.3.24	SPACE		
15		5.3.24	SPACE		
17		5.3.24	SPACE		

LIDEATED 7 33 3E

Life Safety Drawing Navigation

